



Associated Water License 2024 Annual Monitoring Report

New Acland Stage 3 Project

New Acland Coal Pty Ltd

Prepared by:

SLR Consulting Australia

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Australia

SLR Project No.: 620.041560.00001-v1.0

27 September 2024

Revision: 1.0

Revision Record

Revision	Date	Prepared By	Checked By	Authorised By
V1.0	27 September 2024	Kirsty Gibson	Derwin Lyons	Derwin Lyons

Basis of Report

This report has been prepared by SLR Consulting Australia (SLR) with all reasonable skill, care and diligence, and taking account of the timescale and resources allocated to it by agreement with New Acland Coal Pty Ltd (the Client). Information reported herein is based on the interpretation of data collected, which has been accepted in good faith as being accurate and valid.

This report is for the exclusive use of the Client. No warranties or guarantees are expressed or should be inferred by any third parties. This report may not be relied upon by other parties without written consent from SLR.

SLR disclaims any responsibility to the Client and others in respect of any matters outside the agreed scope of the work.



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1.0 Introduction

1.1 Overview

New Acland Coal Pty Ltd (NAC) operates the New Acland Coal Mine (the Mine) on Mining Lease (ML) 50170, ML 50216 and ML 50232 (**Figure 1-1**). The Stage 3 expansion of the Mine (the New Acland Stage 3 Project, the Project) onto ML 50232 commenced operation in May 2023 with first coal mined on or about 14 September 2023.

1.2 Associated Water License and Annual Monitoring Report

The Project was granted an Associated Water License (AWL; reference 625158) under the *Water Act 2000* (Water Act) by the Queensland Department of Regional Development Manufacturing and Water (DRDMW) on 20th October 2022. The AWL includes conditions requiring the development of an Underground Water Monitoring Program (UWMP). The UWMP developed by NAC (2023) to address the relevant AWL conditions was approved by DRDMW on 19 May 2023, and provides a groundwater monitoring network and monitoring regime designed to address the predicted impacts on groundwater at and surrounding the site of the Project, south and west of NAC's previous Stage 1 and Stage 2 mining operation on ML 50170 and ML 50216. A groundwater level monitoring regime specific to the AWL is described within the UWMP, with reference also made to the groundwater quality monitoring regime implemented under the Project's Groundwater Monitoring and Management Program (GMMP; NAC, 2020).

Condition 22 and 23 of the AWL require that NAC prepare an Annual Monitoring Report by 1 October each year. The Annual Monitoring Report must include:

- a) the underground water levels in the monitoring bores identified in the approved Underground Water Monitoring Program;
- b) any changes in water quality in the monitoring bores, recorded in accordance with the GMMP and the approved Underground Water Monitoring Program;
- c) maps showing the actual water level drawdown contours for each aquifer;
- d) details of the numerical underground water model and any review undertaken of the numerical underground water model since the previous Annual Monitoring Report;
- e) an assessment of any differences between the actual water level impact and the impact predicted for the same period by the numerical underground water model;
- f) details of any bores which are predicted by the numerical underground water model to be located in the affected area; and
- g) raw data provided in a format as requested by the chief executive.

This report is the 2nd Annual Monitoring Report prepared in accordance with Condition 22 of the AWL. To allow for appropriate time for consolidation, review and analysis of monitoring data prior to the 1 October submission date, this Annual Monitoring Report uses a monitoring data cut-off date of end June 2024. Therefore, the reporting period of 1st July 2023 though 30th June 2024.



1.3 Take of Associated Water



It is understood that the anticipated date of commencement of associated water take was originally specified as May 2023 for the Project. In reality, although some Project activities did commence in May 2023, uncertainty regarding the AWL appeal proceedings led to a delay in the commencement of take (i.e. a revision of mine planning). As reported in the first Annual Monitoring Report, commencement of take occurred on or about 14th September 2023 coincident with the mining of first coal at the Project.

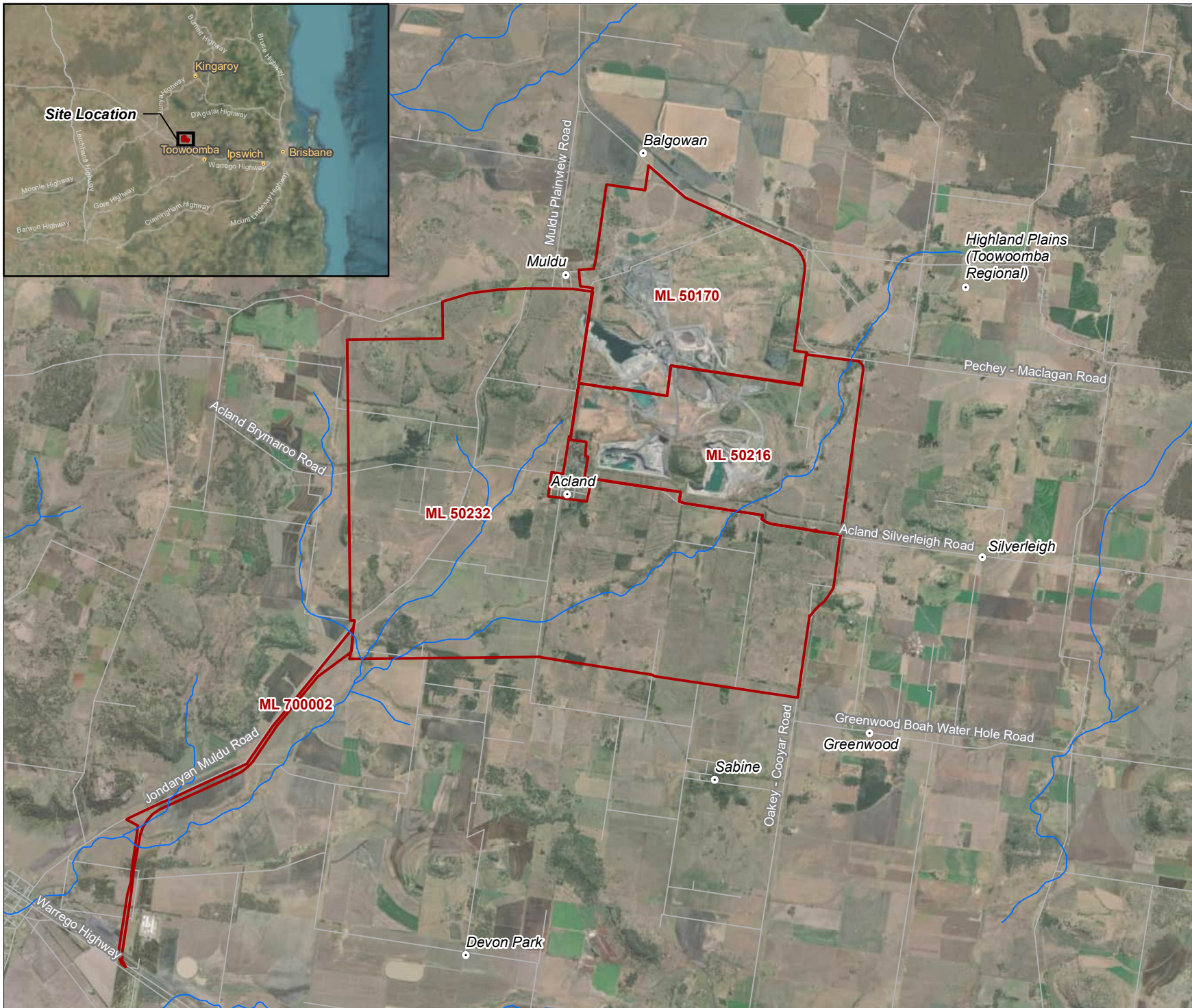
Take of underground water in the current reporting period occurred over the full 12 month duration of the current reporting period (1st July 2023 through 30th June 2024). The volume of underground water taken under the AWL during the current reporting period totals 105.85 ML, with an average daily take of 0.29 ML/d. This estimate is based on the Project's updated numerical groundwater model discussed in **Section 4.0**.



SITE LOCATION

FIGURE 1-1

-  Locality
-  Road
-  Watercourse
-  Mining Lease



Coordinate System:	AGD 1984 AMG Zone 56
Scale:	1:90,000 at A4
Project Number:	620.31500.00000
Date:	25-Sep-2024
Drawn by:	AS



2.0 Groundwater Monitoring Network and Schedule

The NAC UWMP monitoring network comprises 81 bores as listed in the UWMP (**Table 1** and **Figure 2-1** to **Figure 2-6**). Some bores are not yet installed, as indicated in **Table 1**.

The groundwater level monitoring schedule as detailed in the UWMP requires at least monthly water level measurements at each UWMP bore.

The groundwater quality monitoring schedule is detailed in the Groundwater Monitoring and Management Program (GMMP; NAC, 2020) prepared in accordance with Condition D24 of the New Acland Coal Mine Environmental Authority (EA) EPML00335713, and includes the following parameter and monitoring frequency¹:

- Groundwater quality: six monthly for bores with baseline\background criteria already established, or three monthly for bores yet to have baseline\background criteria established, including:
 - Laboratory analysis: pH (lab), EC (lab), Al, As, Ba, Ca, Se, Cl, Cu, F, Fe, Fe²⁺, NO₃-N, NO₂-N, Total N, NH₃, TKN, K, Mg, Mn, Na, SO₄, HCO₃, H₂S, TDS;
 - Field Parameters: pH (field), EC (field), Temp², DO, ORP.

Note that not all bores identified in the UWMP require groundwater quality monitoring; specifically, those bores included in the UWMP to address NAC's requirements under the Surat Cumulative Management Area (CMA) Underground Water Impact Report (UWIR), but that are not otherwise identified in the AWL, do not require groundwater quality monitoring. Further information can be located within Table 3 of the approved UWMP (NAC, 2023).

¹ It is noted that the GMMP schedule (Table 6 of GMMP) does not list the parameters pH (lab), EC (lab), F and Total N, however they are listed as analytes which have triggers (Table 13 of GMMP). This inconsistency will be corrected in a future update of the GMMP.

² SLR does not consider temperature to be a relevant parameter for the purpose of groundwater impact assessment, and hence it is not included in the analysis presented in this Annual Monitoring Report.



Table 2-1 UWMP Groundwater Monitoring Network

Bore	Aquifer	Status at June 2024	Latitude (GDA2020) ¹	Longitude (GDA2020) ¹	Notes
GW09A	Oakey Creek Alluvium	Existing	-27.365164	151.724272	Water level monitoring requirement only under the UWIR
GW14A	Lagoon Creek Alluvium / Weathered Walloon Coal Measures	Existing	-27.338553	151.642854	Water level monitoring requirement only under the UWIR
A1	Cain Creek Alluvium	Existing	-27.287274	151.691317	
A2	Oakey Creek Alluvium	Existing	-27.277142	151.690153	
10PbR	Main Range Volcanics	Existing	-27.275502	151.683711	
84PbR	Main Range Volcanics	Existing	-27.273082	151.696858	
BMH1	Main Range Volcanics	Existing	-27.274143	151.673419	Water level monitoring requirement only under the UWIR
18PbR	Main Range Volcanics	Existing	-27.273149	151.696891	Water level monitoring requirement only under the UWIR
109PR	Main Range Volcanics	Existing	-27.338553	151.642854	
GW05A	Main Range Volcanics	Existing	-27.251672	151.669241	
GW11AR	Main Range Volcanics	Existing	-27.270947	151.660052	Water level monitoring requirement only under the UWIR
GW15A	Main Range Volcanics	Existing	-27.330851	151.633397	
GW16A	Main Range Volcanics	Existing	-27.298936	151.633657	Water level monitoring requirement only under the UWIR
B1	Main Range Volcanics	Existing	-27.281805	151.658072	
B2	Main Range Volcanics	Proposed	-27.275323	151.641179	
B3	Main Range Volcanics	Existing	-27.262839	151.656149	
B4	Main Range Volcanics	Existing	-27.314242	151.633328	
B5	Main Range Volcanics	Proposed	-27.264746	151.621105	
GW13B	Waipanna CS	Existing	-27.331285	151.637091	Water level monitoring requirement only under the UWIR



Bore	Aquifer	Status at June 2024	Latitude (GDA2020) ¹	Longitude (GDA2020) ¹	Notes
GW22A	Waipanna CS	Existing	-27.326716	151.665931	Water level monitoring requirement only under the UWIR
WCS1	Waipanna CS	Existing	-27.298731	151.634831	
WCS2	Waipanna CS	Existing	-27.302979	151.644682	
81PcR	Acland CS	Proposed	-27.300555	151.736839	
82PcR	Acland CS	Existing	-27.307892	151.723564	
CSMH1Ra	Acland CS	Proposed	TBC	TBC	Replacement bore required per DRDMW direction to NAC on 11 July 2023.
					Replacement bore location yet to be approved.
4517WB	Acland CS	Existing	-27.289096	151.684734	
4518WB	Acland CS	Existing	-27.301868	151.67991	
111PGC LowerR	Acland CS (lower)	Existing	-27.317414	151.701888	
111PGC UpperR	Acland CS (upper)	Existing	-27.317401	151.701752	
112PR	Acland CS	Existing	-27.316137	151.692727	Water level monitoring requirement only under the UWIR
113PGCB	Acland CS	Existing	-27.310812	151.67059	
114P	Acland CS	Existing	-27.332753	151.704132	
116P	Acland CS	Existing	-27.341175	151.728461	
118P	Acland CS	Existing	-27.331689	151.660711	
119P	Acland CS	Existing	-27.357124	151.701858	
GW05B	Acland CS	Existing	-27.302979	151.644682	
GW06B	Acland CS	Existing	-27.350593	151.680323	
GW07BR	Balgowan CS	Existing	-27.323198	151.643668	



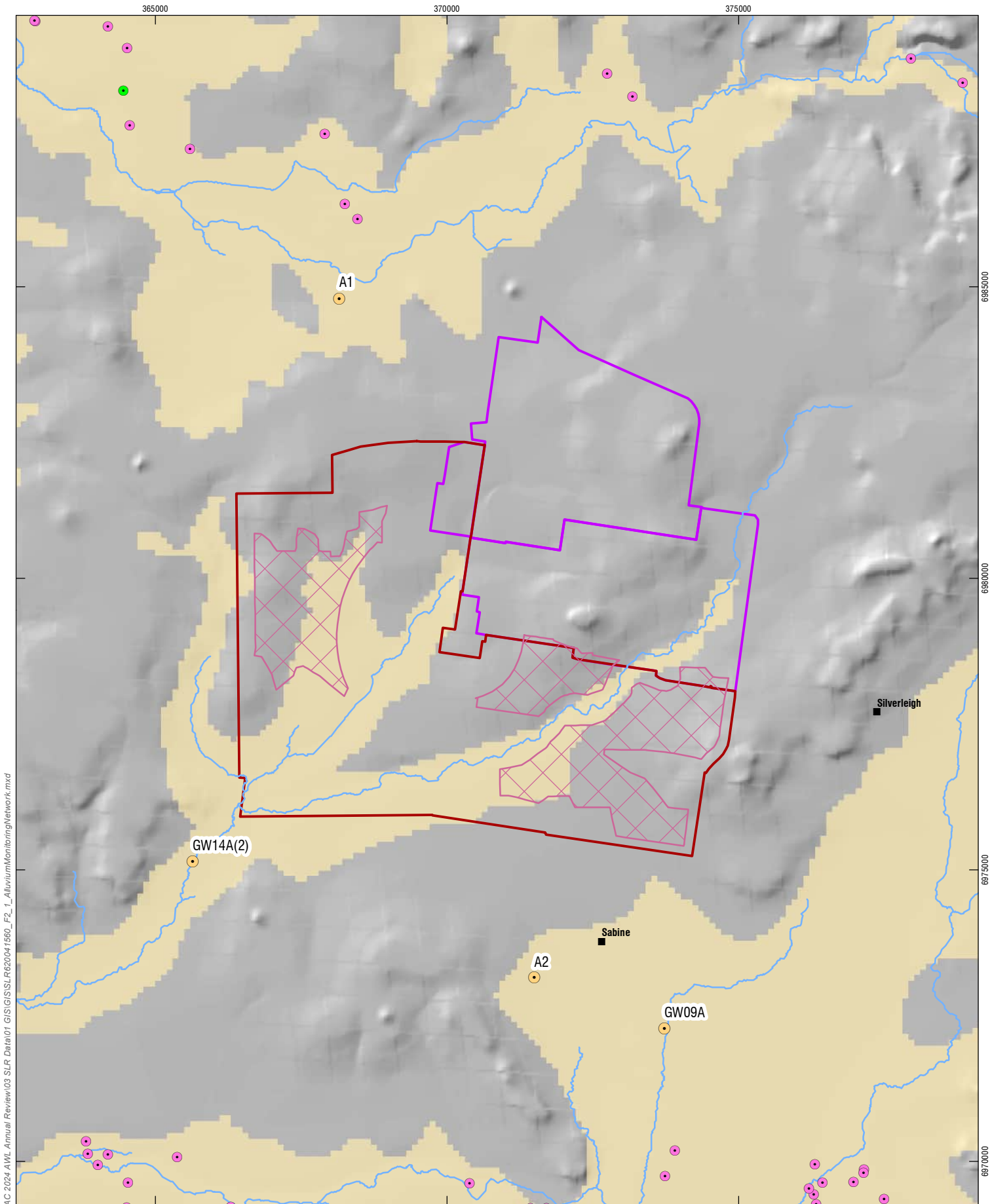
Bore	Aquifer	Status at June 2024	Latitude (GDA2020) ¹	Longitude (GDA2020) ¹	Notes
GW08B	Acland CS	Existing	-27.365047	151.724294	Water level monitoring requirement only under the UWIR
GW09B	Acland CS	Existing	-27.335824	151.740872	Water level monitoring requirement only under the UWIR
GW10	Acland CS	Existing	-27.29883	151.63485	
GW12B	Acland CS	Existing	-27.366325	151.68597	Water level monitoring requirement only under the UWIR
GW17AR	Acland CS	Existing	-27.326649	151.665417	
GW18	Acland CS	Existing	-27.324956	151.668772	Water level monitoring requirement only under the UWIR
GW19A	Acland CS	Existing	-27.322243	151.670199	
GW20A	Acland CS	Existing	-27.326735	151.666102	Water level monitoring requirement only under the UWIR
GW22B	Acland CS	Existing	-27.302395	151.64964	Water level monitoring requirement only under the UWIR
ACS1	Acland CS	Existing	-27.357124	151.701858	
ACS2	Acland CS	Existing	-27.297496	151.643374	
ACS3	Acland CS	Existing	-27.370599	151.60008	
18PcR	Balgowan CS	Existing	-27.273082	151.696858	Water level monitoring requirement only under the UWIR
2289_Lower	Balgowan CS	Existing	-27.297496	151.643374	
2291P	Balgowan CS	Existing	-27.285216	151.734226	Water level monitoring requirement only under the UWIR
3314_WB	Balgowan CS	Existing	-27.304206	151.749192	Water level monitoring requirement only under the UWIR
25PcR	Balgowan CS	Existing	-27.278647	151.728385	
26PcR	Balgowan CS	Existing	-27.270369	151.729708	
27PcR	Balgowan CS	Existing	-27.265249	151.720627	
28PcR	Balgowan CS	Existing	-27.261117	151.710018	
GW19B	Balgowan CS	Existing	-27.325	151.66868	
GW20B	Balgowan CS	Existing	-27.322263	151.67034	Water level monitoring requirement only under the UWIR



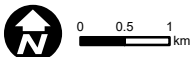
Bore	Aquifer	Status at June 2024	Latitude (GDA2020) ¹	Longitude (GDA2020) ¹	Notes
GW22C	Balgowan CS	Existing	-27.326755	151.666304	Water level monitoring requirement only under the UWIR
BCS1	Balgowan CS	Existing	-27.302395	151.64964	
BCS2	Balgowan CS	Existing	-27.341137	151.728419	
BCS3	Balgowan CS	Existing	-27.289274	151.684722	
CSMH1Rb	Balgowan CS	Existing	-27.285216	151.734226	
132WBR	Balgowan CS	Existing	-27.31988	151.678029	
133WBR	Balgowan CS	Existing	-27.253756	151.686347	
130WBR	Marburg Sandstone	Existing	-27.253563	151.678309	
21P	Marburg Sandstone	Existing	-27.277126	151.755646	Water level monitoring requirement only under the UWIR
34PR	Marburg Sandstone	Existing	-27.287313	151.691549	Water level monitoring requirement only under the UWIR
41P	Marburg Sandstone	Existing	-27.254411	151.706703	
48P	Marburg Sandstone	Existing	-27.262374	151.722819	Water level monitoring requirement only under the UWIR
GW08C	Marburg Sandstone	Existing	-27.322973	151.643721	Water level monitoring requirement only under the UWIR
GW09C	Marburg Sandstone	Existing	-27.36493	151.724305	Water level monitoring requirement only under the UWIR
GW11B	Marburg Sandstone	Existing	-27.272211	151.661996	Water level monitoring requirement only under the UWIR
M1	Marburg Sandstone	Existing	-27.341165	151.728255	
M2	Marburg Sandstone	Existing	-27.320662	151.740174	
M3	Marburg Sandstone	Existing	-27.35287	151.679659	
M4	Marburg Sandstone	Existing	-27.322415	151.670234	Water level monitoring requirement only under the UWIR
Helidon Bore	Helidon Sandstone	Existing	-27.345941	151.755678	Water level monitoring requirement only under the UWIR
3307_WBR	Rehabilitated Spoil	Existing	-27.272825	151.712005	

Note: ¹ Coordinates for proposed bores are approximate





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 Project Number: 620.11303.00424
 Date: 25-Sep-2024
 Drawn by: AS

- Localities
- UWMP Monitoring Bore
- 3rd Party Extraction Bores - Alluvium
- Surveyed by NAC
- Indicative (GWDB / OGIA)
- Surface Drainage
- ▨ Indicative Stage 3 Pit Shells
- ▭ New Acland Mine
- ▭ NAC03 Project Area
- ▭ Modelled Formation Extent

**NEW ACLAND STAGE 3
 PROJECT AWL ANNUAL
 MONITORING REPORT 2024**

**ALLUVIUM
 MONITORING BORES**



FIGURE 2-1

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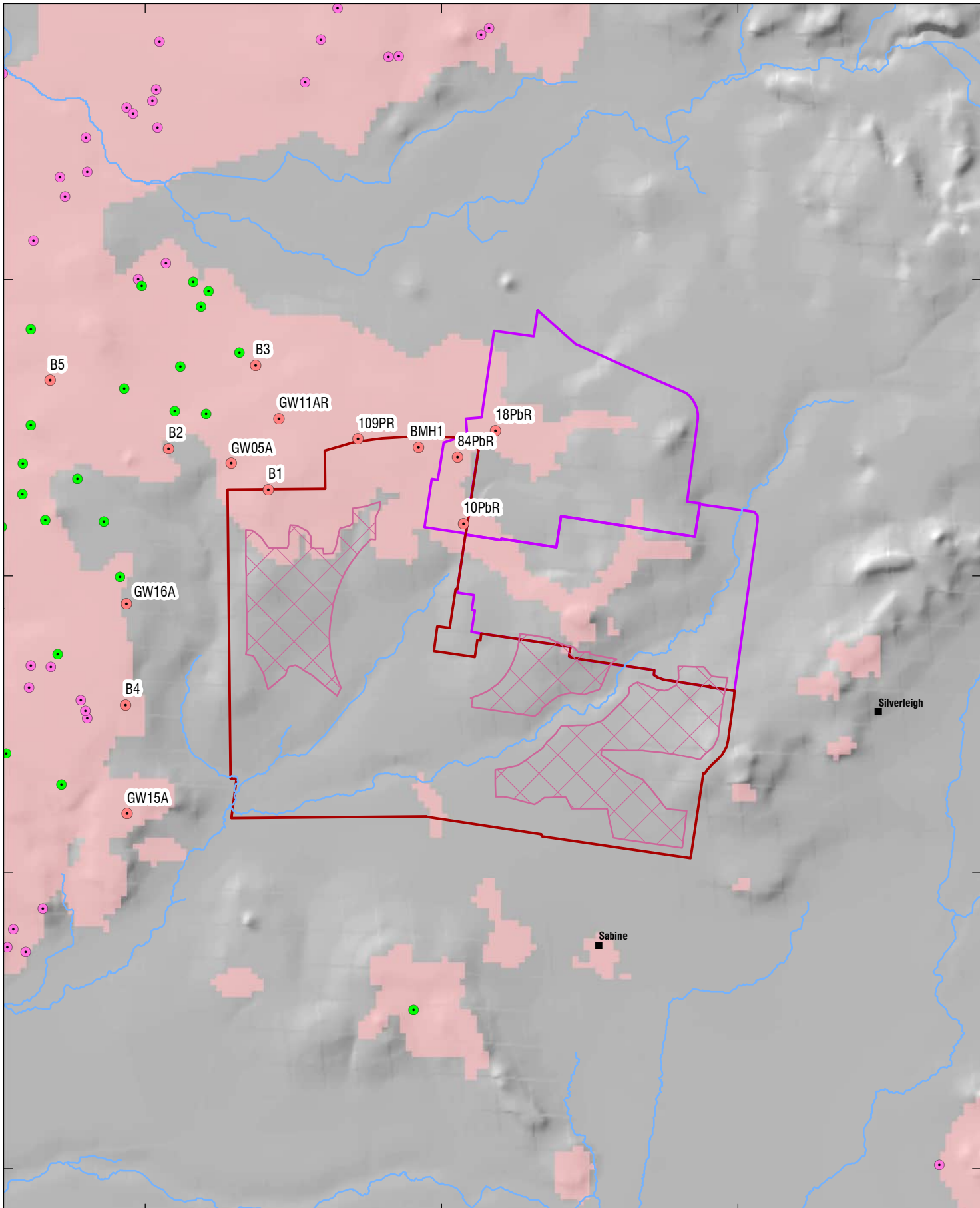
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 Date: 25-Sep-2024
 Drawn by: AS

- Localities
- UWMP Monitoring Bore
- 3rd Party Extraction Bores - Basalt
- Surveyed by NAC
- Indicative (GWDB / OGIA)
- Surface Drainage
- ▨ Indicative Stage 3 Pit Shells
- ▭ New Acland Mine
- ▭ NAC03 Project Area
- ▭ Modelled Formation Extent

**NEW ACLAND STAGE 3
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 MONITORING REPORT 2024**

**BASALT
 MONITORING BORES**



FIGURE 2-2

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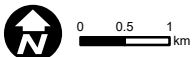
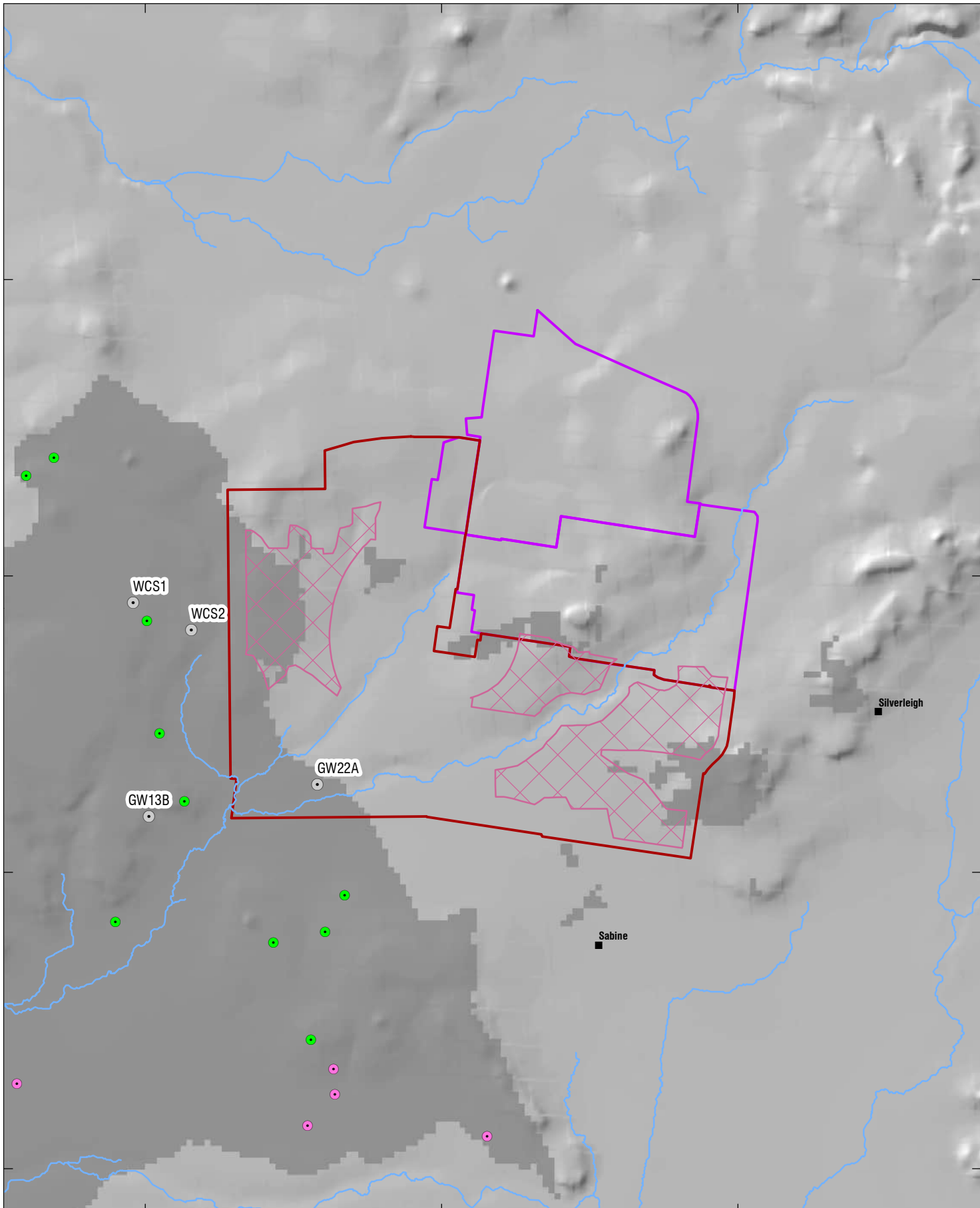
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 Project Number: 620.11303.00424
 Date: 25-Sep-2024
 Drawn by: AS

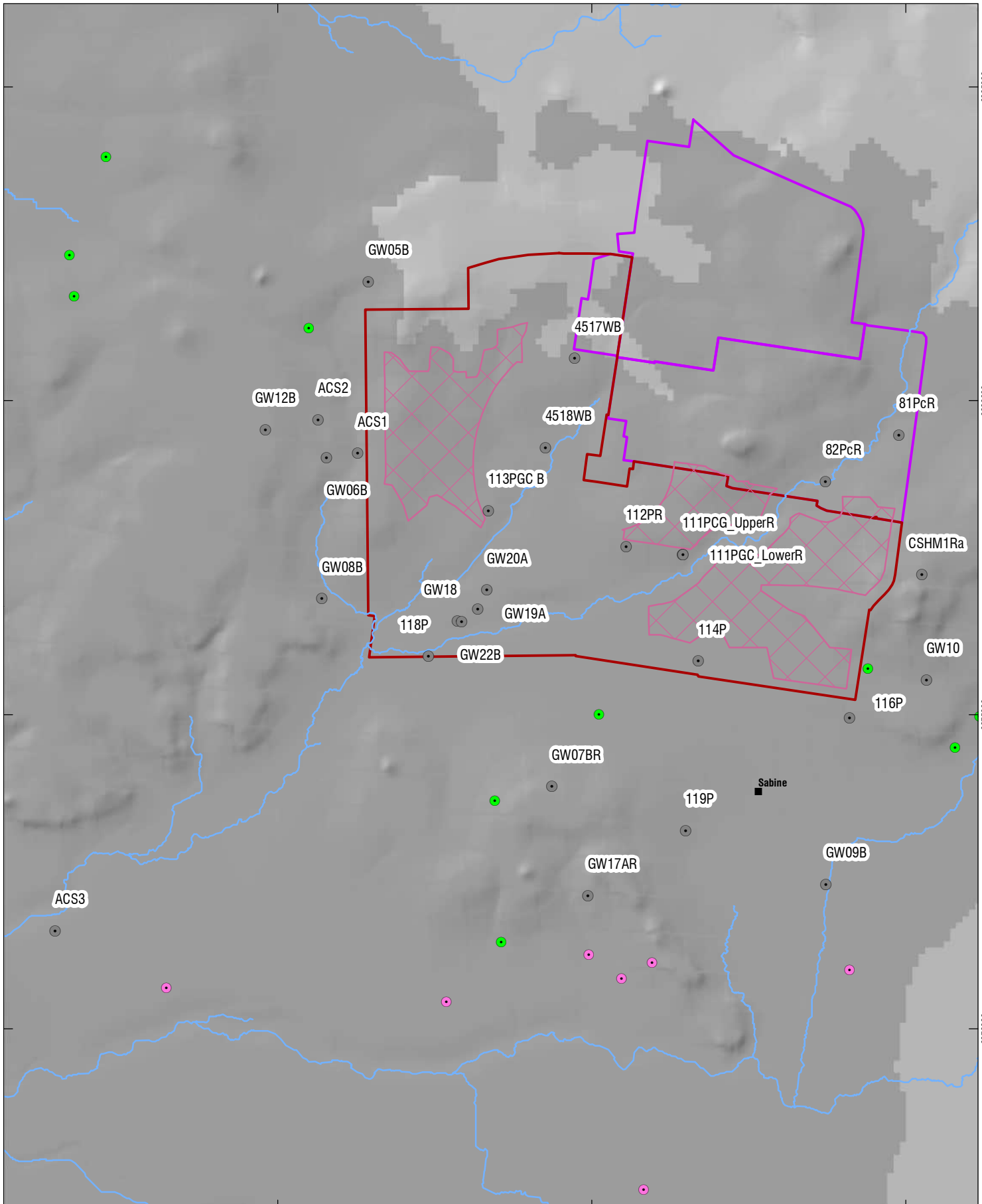
- Localities
- UWMP Monitoring Bore
- **3rd Party Extraction Bores - Waipanna Coal Sequence**
- Surveyed by NAC
- Indicative (GWDB / OGIA)
- Surface Drainage
- ▨ Indicative Stage 3 Pit Shells
- ▭ New Acland Mine
- ▭ NAC03 Project Area
- ▭ Modelled Formation Extent

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**WAIPANNA COAL SEQUENCE
 MONITORING BORES**



FIGURE 2-3



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 0 0.5 1 km
 Coordinate System: AGD 1984 AMG Zone 56
 Scale: 1:80,000 at A4
 Project Number: 620.11303.00424
 Date: 27-Sep-2024
 Drawn by: AS

- Localities
- UWMP Monitoring Bore
- **3rd Party Extraction Bores - Acland Coal Sequence**
- Surveyed by NAC
- Indicative (GWDB / OGIA)
- Surface Drainage
- ▨ Indicative Stage 3 Pit Shells
- ▭ New Acland Mine
- ▭ NAC03 Project Area
- Modelled Formation Extent

**NEW ACLAND STAGE 3
 PROJECT AWL ANNUAL
 MONITORING REPORT 2024**

**ACLAND COAL SEQUENCE
 MONITORING BORES**



FIGURE 2-4

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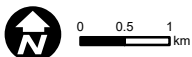
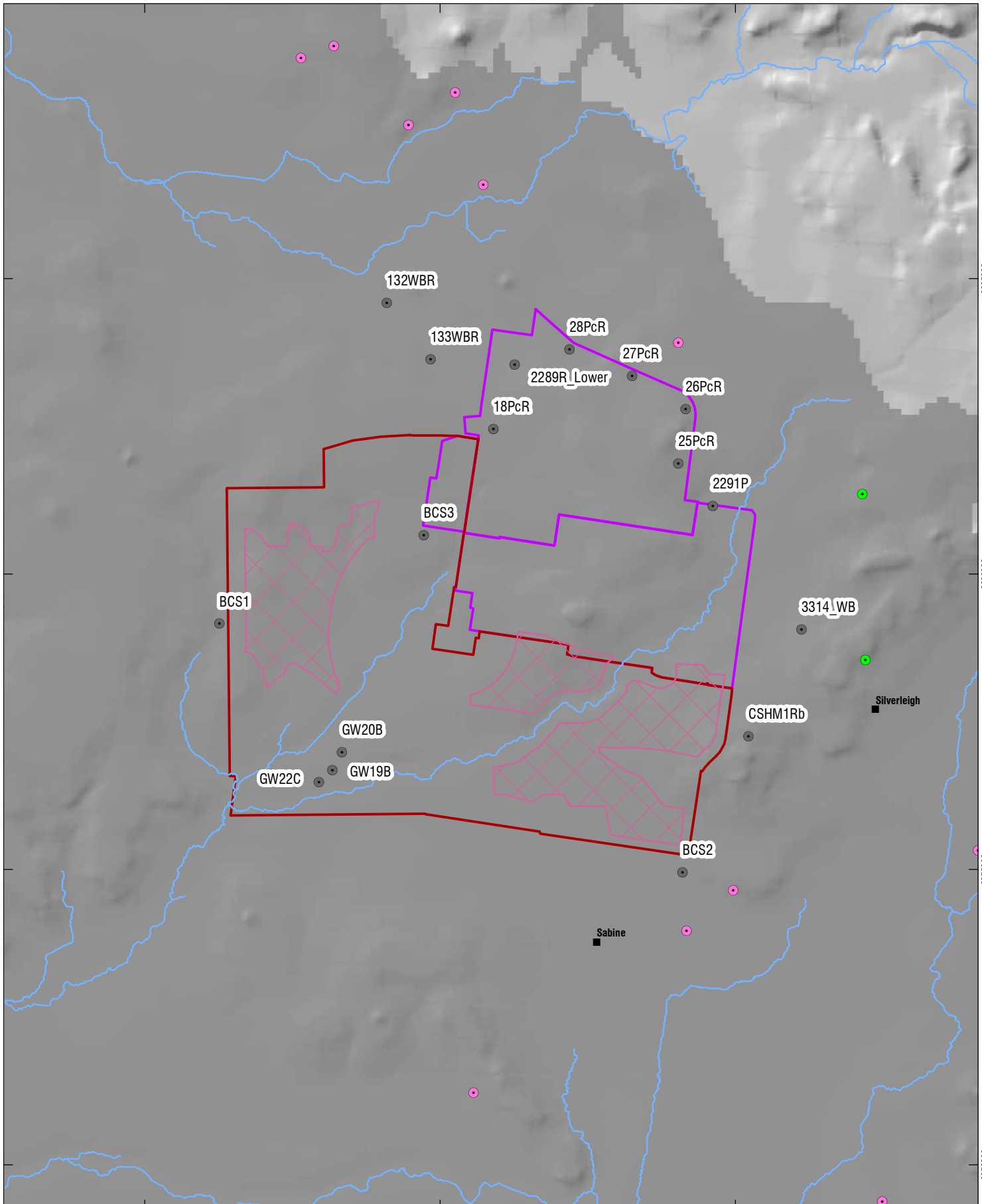
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Coordinate System: AGD 1984 AMG Zone 56
 Scale: 1:85,000 at A4
 Project Number: 620.11303.00424
 Date: 25-Sep-2024
 Drawn by: AS

- Localities
- UWMP Monitoring Bore
- 3rd Party Extraction Bores - Balgowan Coal Sequence
- Surveyed by NAC
- Indicative (GWDB / OGIA)
- Surface Drainage
- ▭ Indicative Stage 3 Pit Shells
- ▭ New Acland Mine
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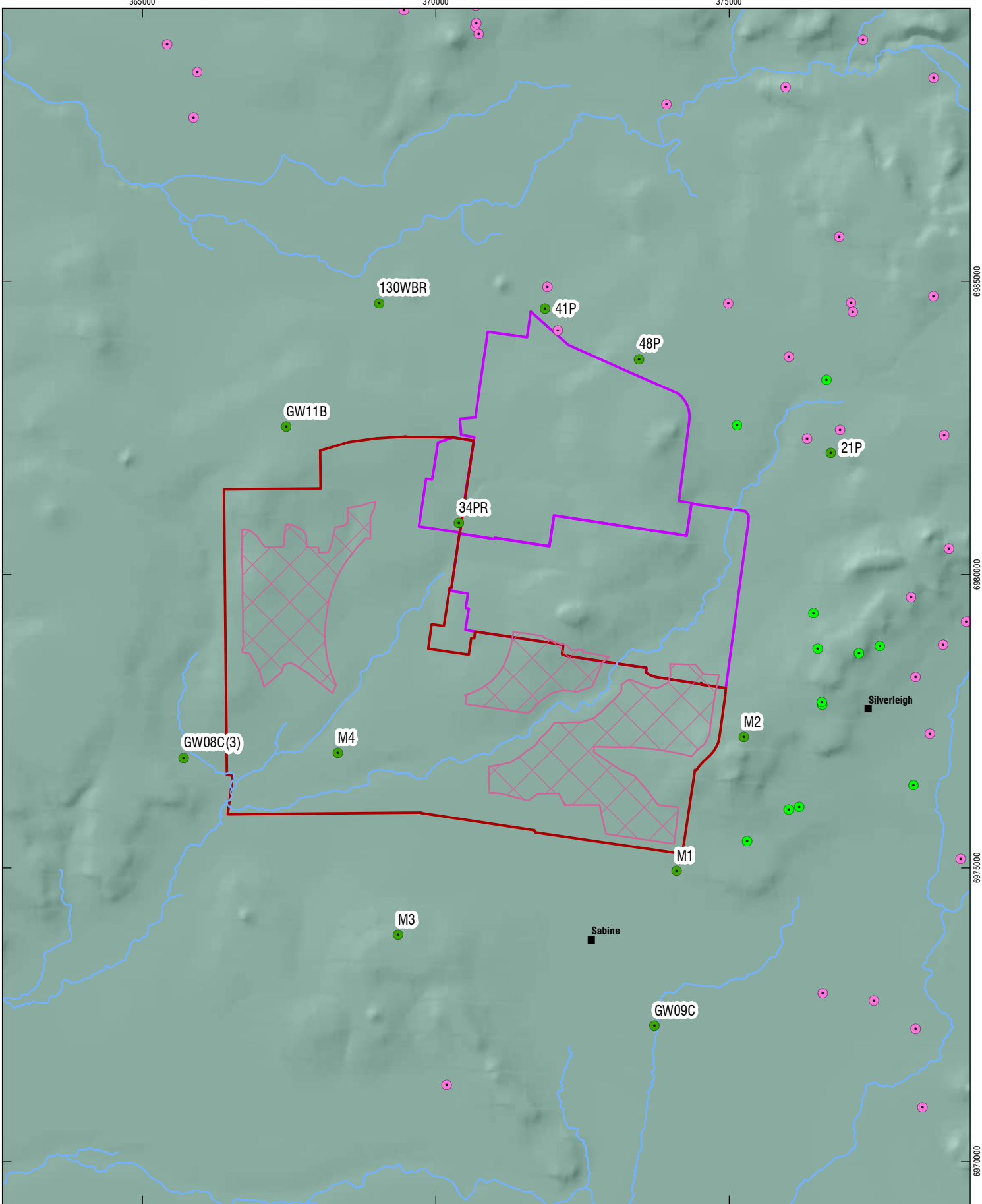
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 MONITORING REPORT 2024**


**BALGOWAN COAL SEQUENCE
 MONITORING BORES**



FIGURE 2-5

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 0 0.5 1 km
 Coordinate System: AGD 1984 AMG Zone 56
 Scale: 1:85,000 at A4
 Project Number: 620.11303.00424
 Date: 25-Sep-2024
 Drawn by: AS

- Localities
- UWMP Monitoring Bore
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- ▭ Modelled Formation Extent

**NEW ACLAND STAGE 3
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MONITORING REPORT 2024**

**MARBURG SANDSTONE
MONITORING BORES**



FIGURE 2-6

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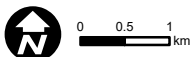
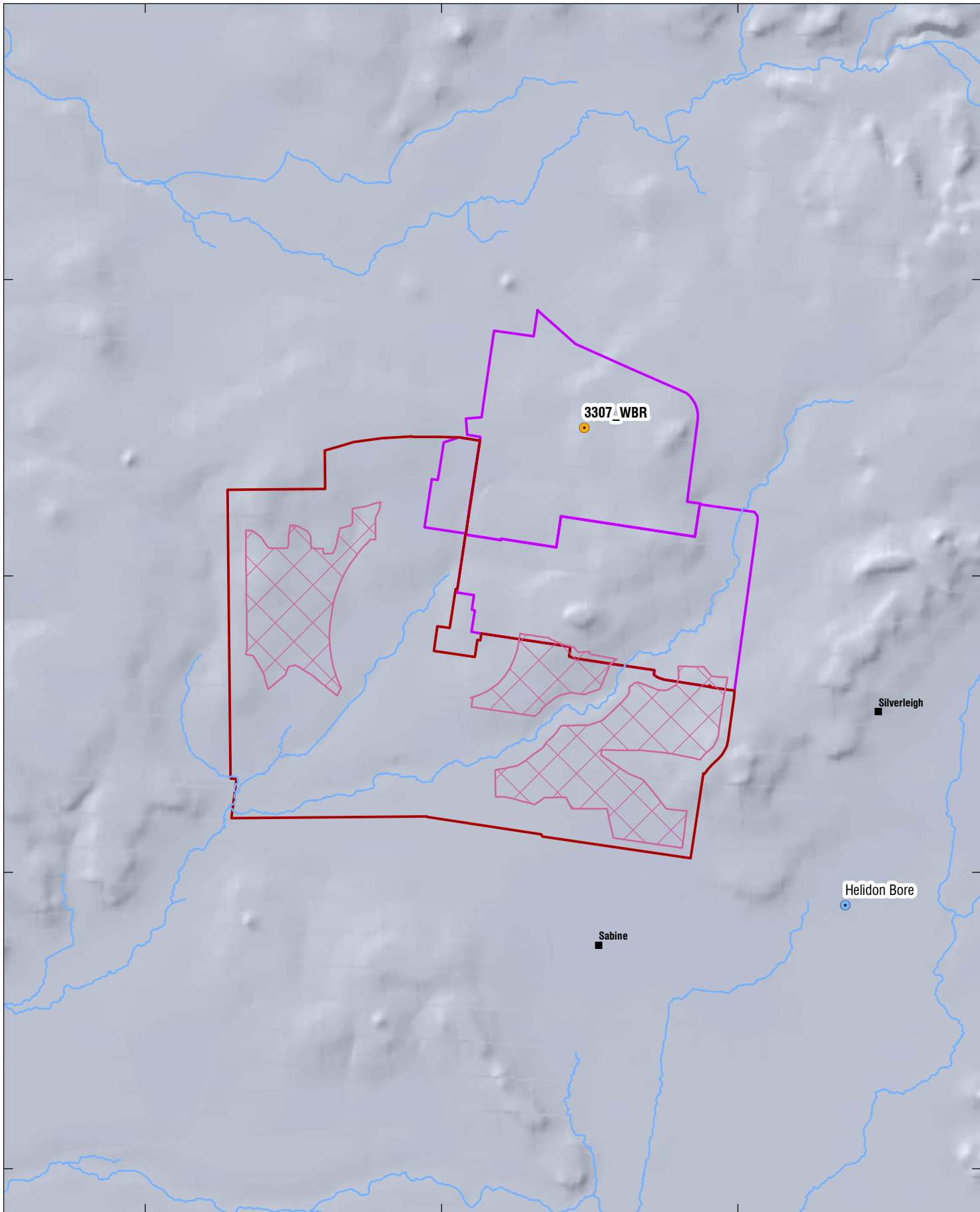
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Coordinate System: AGD 1984 AMG Zone 56
 Scale: 1:85,000 at A4
 Project Number: 620.11303.00424
 Date: 25-Sep-2024
 Drawn by: AS

- Localities
- Rehabilitated Spoil
- Helidon Sandstone
- Surface Drainage
- ▨ Indicative Stage 3 Pit Shells
- ▭ New Acland Mine
- ▭ NAC03 Project Area
- ▭ Helidon Sandstone Formation Extent

**NEW ACLAND STAGE 3
PROJECT AWL ANNUAL
MONITORING REPORT 2024**

**HELIDON SANDSTONE
AND REHABILITATED
SPOIL MONITORING BORES**



FIGURE 2-7

3.0 Groundwater Monitoring Results

As outlined in **Section 2.0**, groundwater monitoring is required to be undertaken at:

- a monthly interval for water levels at UWMP bores, and
- a six monthly interval (bores with baseline established) or three monthly interval (bores with baseline yet to be established) under the GMMP.

Groundwater monitoring undertaken over the reporting period consistent with these requirements is detailed in **Table 3-1**.



Table 3-1 UWMP Groundwater Level and Quality Monitoring Undertaken in the Reporting Period

UWMP Bore	Notes	WQ Requirement	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24
GW09A	Water level monitoring requirement only under the UWIR	6 monthly	WL	WL	WL/WQ	WL	WL	WL	WL	WL	WL/WQ	WL	WL	WL
GW14A	Water level monitoring requirement only under the UWIR	n/a	WL	WL	WL	WL	WL	WL	WL	WL	WL	WL	WL	WL
A1		3 monthly		WL/WQ	WL	WL	WL	WL	WL	WL/WQ	WL	WL	WL	WL
A2		3 monthly		WL	WL	WL	WL	WL	WL	WL	WL	WL	WL	WL
10PbR		3 monthly	WL	WL	1	WL	WL	WQ/WL	WL	WL/WQ	WL	WL	WL/WQ	WL
84PbR		3 monthly	WL	WL/WQ	WL	WL	WL	WL	WL	WL/WQ	WL	WL	WL	WL
BMH1	Water level monitoring requirement only under the UWIR	n/a	WL	WL/WQ	WL	WL	WL	WL	WL	WL/WQ	WL	WL	WL	WL
18PbR	Water level monitoring requirement only under the UWIR	n/a	WL	WL	WL	WL	WL	WL	WL	WL	WL	WL	WL	WL
109PR		3 monthly		WL/WQ	WL	WL	WL	WL	WL	WL/WQ	WL	WL	WL	WL
GW05A		6 monthly	WL	WL/WQ	WL	WL	WL	WL	WL	WL/WQ	WL	WL	WL	WL
GW11AR	Water level monitoring requirement only under the UWIR	n/a	WL	WL/WQ	WL	WL	WL	WL	WL	WL/WQ	WL	WL	WL	WL
GW15A		6 monthly	WL	WL	WL/WQ	WL	WL	WL	WL	WL	28	WL	WL	WL
GW16A	Water level monitoring requirement only under the UWIR	n/a	WL	WL/WQ	WL	WL	WL	WL	WL	WL	WL/WQ	WL	WL	WL
B1		3 monthly	WL	WL/WQ	WL	WL	WL	WL	WL	WL/WQ	WL	WL	WL	WL
B2		3 monthly												
B3		3 monthly	WL	WL	WL/WQ	WL	WL	WL	WL	WL/WQ	WL	WL	WL	WL
B4		3 monthly	WL	WL	WL	WL	WL	WL	WL	WL	WL/WQ	WL	WL	WL
B5		3 monthly												
GW13B	Water level monitoring requirement only under the UWIR	n/a	WL	WL	WL/WQ	WL	WL	WL	WL	WL	WL/WQ	WL	WL	WL



UWMP Bore	Notes	WQ Requirement	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24
GW22A	Water level monitoring requirement only under the UWIR	n/a	WL	WL/WQ	WL	WL	WL	WL	WL	WL	WL/WQ	WL	WL	WL
WCS1		3 monthly		WL	WL	WL	WL	WL	WL	WL	WL/WQ	WL	WL	WL
WCS2		3 monthly	WL	WL/WQ	WL	WL	WL	WL	WL	WL	WL/WQ	WL	WL	WL
81PcR		3 monthly		WL	WL/WQ	WL	WL	WL	WL	WL/WQ	WL	WL	WL	WL
82PcR		3 monthly	WL	WL	WL/WQ	WL	WL/WQ	WL	WL	WL/WQ	WL	WL	WL/WQ	WL
CSMH1Ra	Replacement bore required per DRDMW direction to NAC on 11 July 2023.	3 monthly												
4517WB		3 monthly	WL	WL	WL/WQ	WL	WL	WL	WL	WL/WQ	WL	WL	WL	WL
4518WB		3 monthly	WL	WL	WL/WQ	WL	WL	WL	WL	WL/WQ	WL	WL	WL/WQ	WL
111PGC_LowerR		3 monthly	WL	WL	WL/WQ	WL	WL/WQ	WL	WL	WL	WL/WQ	WL	WL	WL
111PGC_UpperR		3 monthly	WL	WL	WL	WL	WL/WQ	WL	WL	WL	WL/WQ	WL	WL	WL
112PR	Water level monitoring requirement only under the UWIR	n/a	WL	WL	WL/WQ	WL	WL/WQ	WL	WL	WL/WQ	WL	WL	WL	WL
113PGCB		6 monthly	WL	WL	WL/WQ	WL	WL	WL	WL	WL	WL/WQ	WL	WL	WL
114P		6 monthly	WL	WL	WL/WQ	WL	WL	WL	WL	WL	WL/WQ	WL	WL	WL
116P		6 monthly	WL	WL	WL/WQ	WL	WL	WL	WL	WL	WL/WQ	WL	WL	WL
118P		6 monthly	WL	WL/WQ	WL	WL	WL	WL	WL	WL	WL	WL	WL	WL
119P		6 monthly	WL	WL	WL/WQ	WL	WL	WL	WL	WL	WL/WQ	WL	WL	WL
GW05B		6 monthly	WL	WL/WQ	WL	WL	WL	WL	WL	WL/WQ	WL	WL	WL	WL
GW06B		6 monthly	WL	WL/WQ	WL	WL	WL	WL	WL	WL	WL/WQ	WL	WL	WL
GW07BR		3 monthly	WL	WL	WL/WQ	WL	WL	WL	WL	WL	WL/WQ	WL	WL	WL
GW08B	Water level monitoring requirement only under the UWIR	n/a	WL	WL	WL/WQ	WL	WL	WL	WL	WL	WL/WQ	WL	WL	WL
GW09B	Water level monitoring requirement only under the UWIR	n/a	WL	WL	WL/WQ	WL	WL	WL	WL	WL	WL/WQ	WL	WL	WL



UWMP Bore	Notes	WQ Requirement	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24
GW10		6 monthly	WL	WL	WL/WQ	WL	WL	WL	WL	WL	WL/WQ	WL	WL	WL
GW12B	Water level monitoring requirement only under the UWIR	n/a	WL	WL/WQ	WL	WL	WL	WL	WL	WL	WL/WQ	WL	WL	WL
GW17AR		3 monthly	WL	WL	WL/WQ	WL	WL	WL	WL	WL	WL/WQ	WL	WL	WL
GW18	Water level monitoring requirement only under the UWIR	n/a	WL	WL	WL	WL	WL	WL	WL	WL	WL	WL	WL	WL
GW19A		3 monthly	WL	WL/WQ	WL	WL	WL	WL	WL	WL	WL/WQ	WL	WL	WL
GW20A	Water level monitoring requirement only under the UWIR	n/a	WL	WL	WL	WL	WL	WL	WL	WL	WL	WL	WL	WL
GW22B	Water level monitoring requirement only under the UWIR	n/a	WL	WL/WQ	WL	WL	WL	WL	WL	WL	WL/WQ	WL	WL	WL
ACS1		3 monthly		WL/WQ	WL	WL	WL	WL	WL	WL	WL/WQ	WL	WL	WL
ACS2		3 monthly		WL/WQ	WL	WL	WL	WL	WL	WL	WL/WQ	WL	WL	WL
ACS3		3 monthly												
18PcR	Water level monitoring requirement only under the UWIR	n/a	WL	WL	WL	WL	WL	WL	WL	WL	WL	WL	WL	WL
2289_Lower		6 monthly	WL	WL/WQ	WL	WL	WL	WL	WL	WL	WL/WQ	WL	WL	WL
2291P	Water level monitoring requirement only under the UWIR	n/a	WL	WL	WL/WQ	WL	WL	WL	WL	WL/WQ	WL	WL	WL	WL
3314_WB	Water level monitoring requirement only under the UWIR	n/a	WL	WL	WL	WL	WL	WL	WL	WL	WL	WL	WL	WL
25PcR		6 monthly	WL	WL	WL/WQ	WL	WL	WL	WL	WL	WL/WQ	WL	WL	WL
26PcR		6 monthly	WL	WL/WQ	WL/WQ	WL	WL	WL	WL	WL/WQ	WL	WL	WL	WL
27PcR		3 monthly	WL	WL	WL/WQ	WL	WL	WL	WL	WL/WQ	WL	WL	WL	WL
28PcR		3 monthly	WL	WL/WQ	WL	WL	WL	WL	WL	WL	WL/WQ	WL	WL	WL
GW19B		3 monthly	WL	WL/WQ	WL	WL	WL	WL	WL	WL	WL/WQ	WL	WL	WL
GW20B	Water level monitoring requirement only under the UWIR	n/a	WL	WL	WL	WL	WL	WL	WL	WL	WL	WL	WL	WL



UWMP Bore	Notes	WQ Requirement	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24
GW22C	Water level monitoring requirement only under the UWIR	n/a	WL	WL/WQ	WL	WL	WL	WL	WL	WL	WL/WQ	WL	WL	WL
BCS1		3 monthly	WL	WL/WQ	WL	WL	WL	WL	WL	WL	WL/WQ	WL	WL	WL
BCS2		3 monthly	WL	WL	WL/WQ	WL	WL	WL	WL	WL	WL/WQ	WL	WL	WL
BCS3		none	WL	WL	WL/WQ	WL	WL	WL	WL	WL/WQ	WL	WL	WL/WQ	WL
CSMH1Rb		3 monthly	WL	WL	WL/WQ	WL	WL	WL	WL	WL	WL/WQ	WL	WL	WL
132WBR		none	WL	WL/WQ	WL	WL	WL	WL	WL	WL/WQ	WL	WL	WL/WQ	WL
133WBR		none	WL	WL/WQ	WL	WL	WL	WL	WL	WL	WL/WQ	WL	WL/WQ	WL
130WBR		3 monthly	WL	WL	WL	WL	WL	WL	WL	WL/WQ	WL	WL	WL	WL
21P	Water level monitoring requirement only under the UWIR	n/a	WL	WL	WL/WQ	WL	WL	WL	WL	WL	WL/WQ	WL	WL	WL
34PR	Water level monitoring requirement only under the UWIR	n/a	WL	WL	WL	WL	WL	WL	WL	WL	WL	WL	WL	WL
41P		3 monthly	WL	WL/WQ	WL	WL	WL	WL	WL	WL/WQ	WL	WL	WL	WL
48P	Water level monitoring requirement only under the UWIR	n/a	WL	WL	WL/WQ	WL	WL	WL	WL	WL	WL/WQ	WL	WL	WL
GW08C	Water level monitoring requirement only under the UWIR	n/a	WL	WL	WL	WL	WL	WL	WL	WL	WL	WL	WL	WL
GW09C	Water level monitoring requirement only under the UWIR	n/a	WL	WL	WL/WQ	WL	WL	WL	WL	WL	WL/WQ	WL	WL	WL
GW11B	Water level monitoring requirement only under the UWIR	n/a	WL	WL/WQ	WL	WL	WL	WL	WL	WL/WQ	WL	WL	WL	WL
M1		3 monthly	WL	WL	WL	WL	WL	WL	WL	WL	WL/WQ	WL	WL	WL
M2		3 monthly	WL	WL	WL	WL	WL	WL	WL	WL	WL/WQ	WL	WL	WL
M3		3 monthly	WL	WL	WL	WL	WL	WL	WL	WL	WL/WQ	WL	WL	WL
M4	Water level monitoring requirement only under the UWIR	n/a	WL	WL/WQ	WL	WL	WL	WL	WL	WL	WL	WL	WL	WL



UWMP Bore	Notes	WQ Requirement	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24
Helidon Bore	Water level monitoring requirement only under the UWIR	n/a	WL	WL	WL	WL	WL	WL	WL	WL	WL	WL	WL	WL
3307_WBR		3 monthly	WL	WL	WL/WQ	WL	WL	WL	WL	WL	WL/WQ	WL	WL	WL

WQ = bore was monitored for water quality

WL = bore was monitored for water level

n/a = groundwater quality monitoring not applicable under the UWIR as described in the UWMP

none = not a GMMP bore therefore water quality monitoring not required

Dark grey highlight = bore not yet installed



3.1 Groundwater Levels

3.1.1 Groundwater Level Hydrographs

Individual bore hydrographs of groundwater level data collected over the reporting period are provided in **Appendix A**. Also shown on the hydrographs is historic data pre-AWL (where available) for each bore, to allow comparison of the monitoring dataset over the entire available record for each UWMP bore. The hydrographs also show the cumulative rainfall departure (CRD) plot, to indicate climatic trends over the groundwater level monitoring record that may be influencing groundwater levels. A rising trend in the CRD indicates above average rainfall climatic conditions (which may result in increased groundwater recharge and/or reduced third party bore extraction), whilst a falling trend indicates below average rainfall climatic conditions. The CRD indicates generally below average rainfall conditions since 2005, punctuated by short periods of high rainfall, notably in 2010-11 and 2021-22. Review and discussion of the hydrographs, as well as re-presentation of the hydrographs grouped by aquifer, is provided below.

3.1.2 Trend Analysis

The Mann-Kendal statistical test is used as a first pass check if a dataset contains a statistically significant trend that warrants further analysis to assess if a real trend exists, and therefore the data may represent a meaningful change in groundwater level. Interpretation of Mann-Kendall results relies on the p-value and the Kendall rank correlation coefficient, tau. A p-value less than 0.05 signifies that there is a statistically significant trend in the data. If the p-value is greater than 0.05, no statistically significant trend is present in the data. The Kendall rank correlation coefficient (tau) indicates the relation between the variance of data, with a positive tau indicating an increasing trend and a negative tau indicating a decreasing trend.

The non-seasonal Mann-Kendall statistical trend test was used to detect potential trends in the groundwater level dataset, with the results provided in **Appendix B**. As shown, the Mann-Kendall test has identified either increasing or decreasing water level trends for many bores. Approximately 56% reported upward trends (increasing groundwater levels), and approximately 23% reported downward trends (decreasing groundwater levels). Details regarding these trends are further explained in **Section 3.1.3**. Approximately 21% of bores did not report a statistical trend, i.e. the groundwater levels were statistically stable over the full monitoring record for these bores, or there were insufficient data to assess the trend statistically.

3.1.3 Review and Analysis

3.1.3.1 Alluvium

Alluvial bore hydrographs (**Appendix A** and **Figure 3-1**) show a response to climatic trends, with groundwater levels at GW09A (Oakey Creek Alluvium southeast of the Project Area) marginally increasing following the 2021-22 wetter than average climatic period. Bore A2 (also targeting the Oakey Creek Alluvium southeast of the Project Area) has remained 'dry' since it was drilled in August 2023 to the end of the reporting period in June 2024. GW14A (Lagoon Creek Alluvium southwest of the Project Area) was recorded as 'dry' between late 2016 and mid-2022, before the alluvium became partially saturated in September 2022 following the 2021-22 wetter than average climatic period. Groundwater levels have continued to be recorded at the bore after this time, with a rising trend in levels since March 2023. Bore A1 (Cain Creek Alluvium north of the Project Area), installed in July 2023, and with monitoring initiated in August 2023, exhibits somewhat more pronounced responses to rainfall events, indicating a direct and rapid recharge relationship with precipitation.



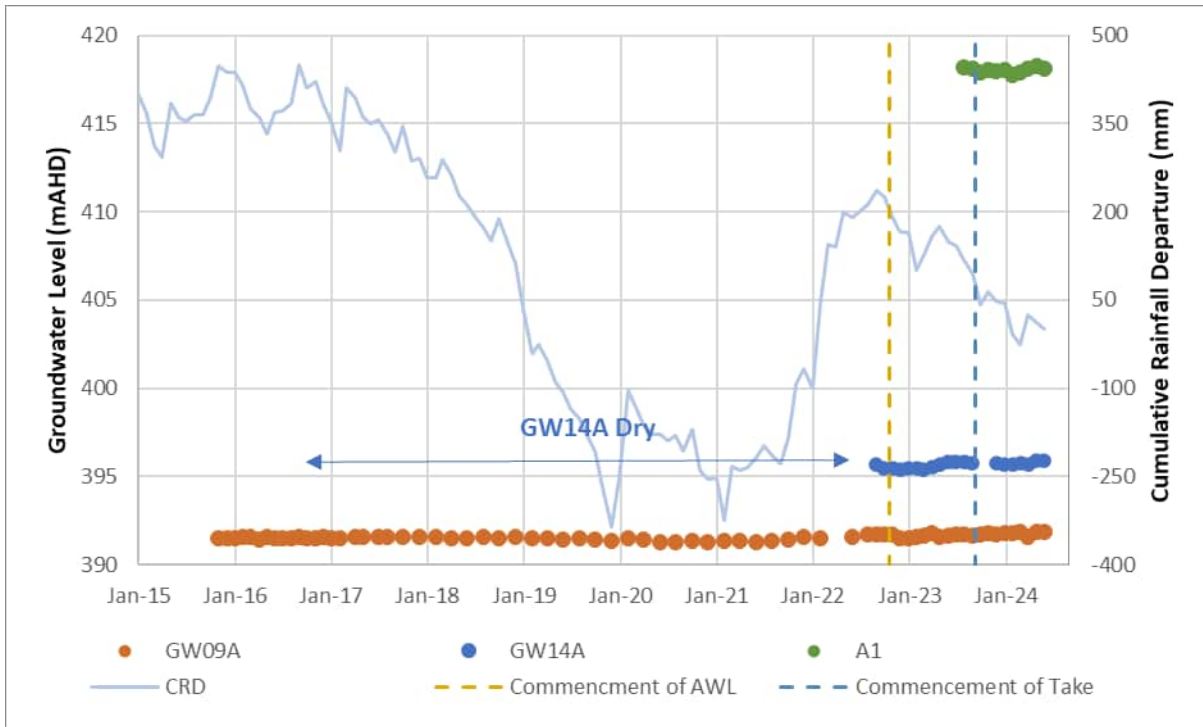


Figure 3-1 Alluvial Groundwater Level Hydrographs

3.1.3.2 Main Range Volcanics

Main Range Volcanics bore hydrographs (**Appendix A** and **Figure 3-2**) display two distinct groundwater level responses. Bores 10PbR, 84PbR, BMH1, 18PbR, and GW05A all exhibit an increase in groundwater levels following the wetter than average climatic period between 2021-22, with BMH1 also showing a similar response to the earlier 2010-11 wetter than average climate period. However, groundwater levels in these bores have steadily declined since mid-2022, gradually returning to pre-2021-22 levels. In contrast, bores GW11AR, GW15A, and GW16A display relatively stable groundwater levels with minimal response to climatic variations. Since the previous reporting period, bores B1, B3, B4, and 109PR were installed, with monitoring commencing around July 2023. Bore B4 mirrors the stable trends observed in GW11AR, GW15A, and GW16A, while bores B1, B3, B4, and 109PR exhibit a subtle decline in groundwater levels, likely influenced by drier-than-average conditions during the reporting period following the significantly wetter than average 2021-22 period.



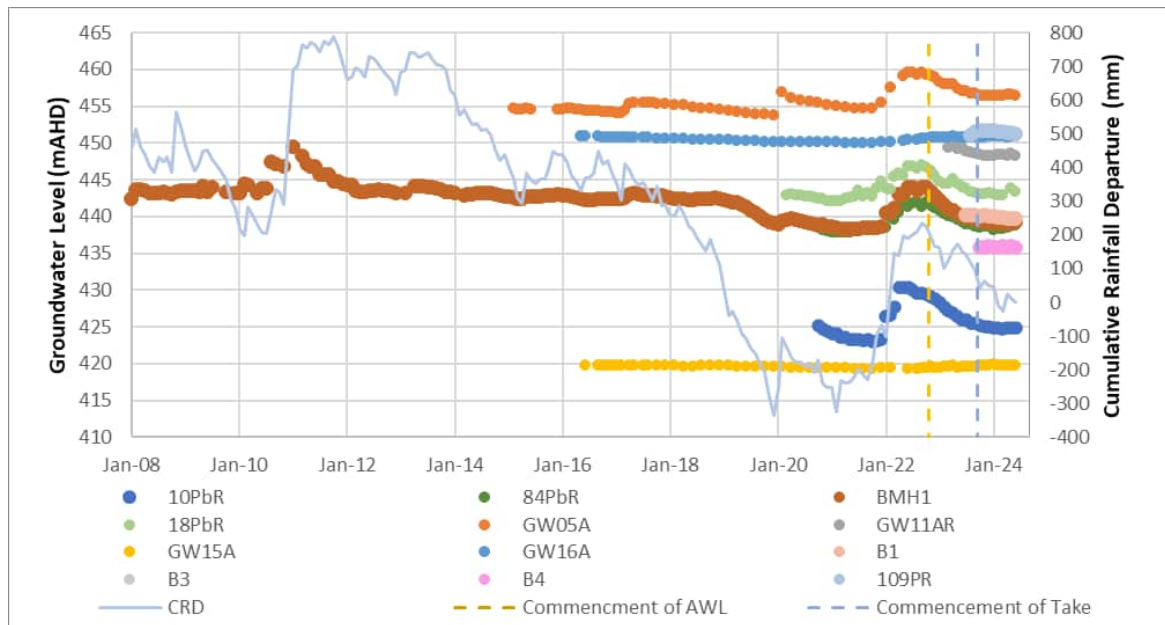


Figure 3-2 Main Range Volcanics Groundwater Level Hydrographs

3.1.3.3 Waipanna Coal Sequence

Waipanna Coal Sequence bore hydrographs (**Appendix A** and **Figure 3-3**) show relatively stable change in groundwater levels over time. Bore GW13B has shown a minor decline of approximately 0.5 m since 2016, which is considered negligible within the broader regional groundwater system. Conversely, bore GW22A has exhibited a slight increase of around 0.5 m over the same period. Bore WCS2 (in the northwest of the Project Area) recorded a more significant rise, with groundwater levels increasing by 2 m over a seven-month period from December 2023 to the end of the reporting period in July 2024. A similar rise in groundwater levels is seen at Acland Coal Sequence bore GW06B located ~15 m north of WCS2 (see **Section 3.1.3.4**) indicating the potential for a local non-mining related influence.

Bore WCS1, located ~1 km southwest of WCS2, has groundwater levels approximately 30 m shallower than those observed at WCS2, which is consistent with the topographic elevation difference (~30 m) between the two locations. This hydraulic gradient between these two bores suggests groundwater flow follows the topographic gradient, flowing in a southeasterly direction. None of the four Waipanna Coal Sequence bores demonstrate any discernible response to prevailing climatic conditions.



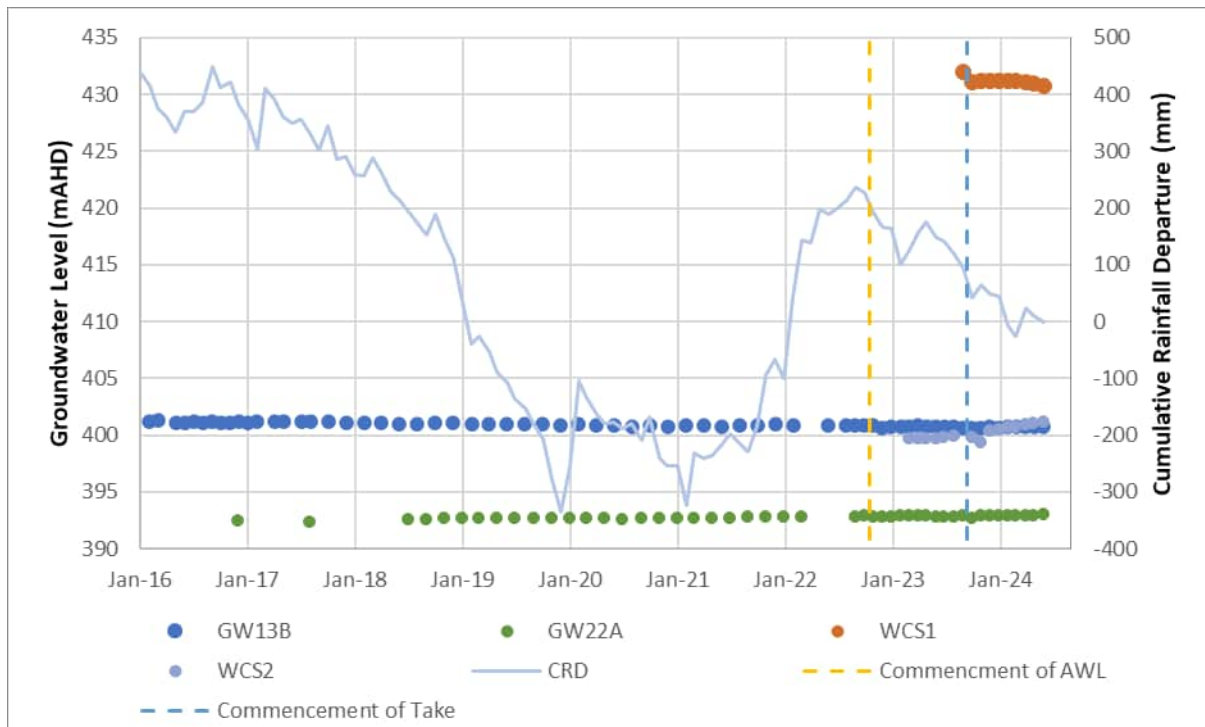


Figure 3-3 Waipanna Coal Sequence Groundwater Level Hydrographs

3.1.3.4 Acland Coal Sequence

The hydrographs of the Acland Coal Sequence bores (**Appendix A** and **Figure 3-4**) reveal two distinct groundwater responses. Bores 4517WB, 4518WB, 113PGCB, 111PGC_UpperR, and 111PGC_LowerR show groundwater level declines of up to 4 m, indicating a direct response to both historic mining and potentially current Stage 3 mining activities. These bores, located predominantly south and southwest of the mining area, exhibit typical drawdown behaviour expected from proximity to active mining operations. However, the rate of drawdown has slowed during the reporting period, with bores 113PGCB and 4518WB experiencing groundwater level rises since the commencement of water take (see **Section 3.1.4**). It can be included, therefore, that the drawdown seen at these bores prior to the commence of take was relate to pre-Project (Stage 2) mining activities before the Stage 3 Project.

The remaining bores generally display stable groundwater levels. Long-term, marginally increasing trends (1-2 m over 8-10 years) are observed at 116P, 114P, GW06B, GW10, and GW12B, while shorter-term rises are noted at ACS2 and 81PcR (bores installed at the June and August 2023 respectively). Bore GW05B uniquely responds to the wetter-than-average 2021-22 period, with levels remaining stable until a rise of approximately 1 m post-January 2022.

Bore GW17AR, situated 3.8 km south of the Project Area, shows a ~9 m rise in water level from June to August 2023 (from ~351 to 360 mAHd), followed by fluctuations within 1 m for the remainder of the monitoring period. The distance of this bore from current and historic mining activities (>6.7 km) indicates the potential for a local non-mining related influence driving the groundwater level variability.



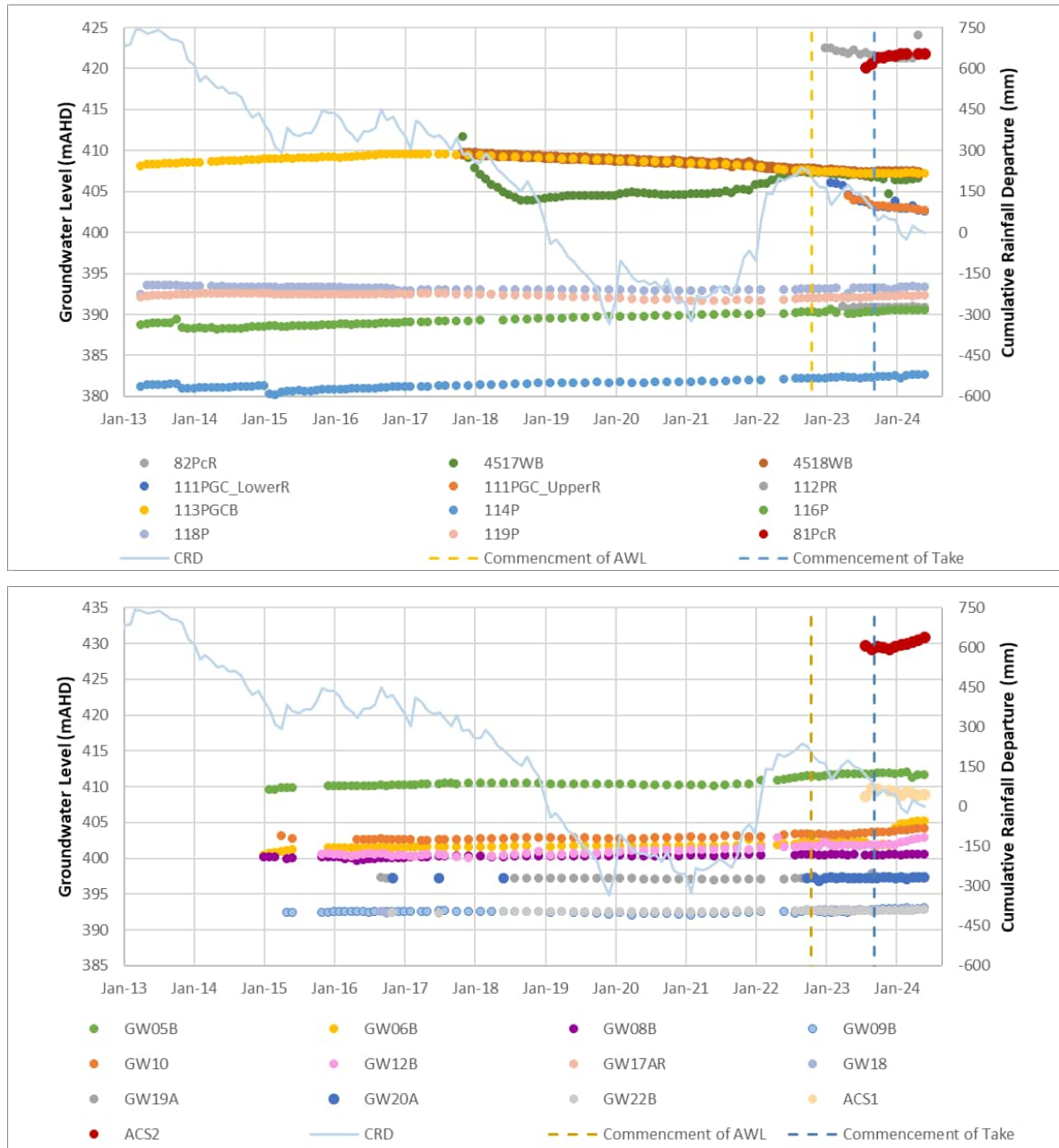


Figure 3-4 Acland Coal Sequence Groundwater Level Hydrographs

Groundwater levels at 82PcR, located northeast of the Project Area within the Stage 2 mining area, remained relatively stable (~421 mAHD) prior to April 2024 but increased by ~4 m between April and June 2024, suggesting a new influx of water to the Acland Coal Sequence near the bore. An investigation completed under the EA by SLR (2024a) found that this contribution of water is likely from Environmental Dam 3A (ED3A), located 200 m northwest of 82PcR, which had been recently utilised for increased mine water management operational storage volumes. The dam (not part of the Stage 3 Project) is constructed on spoil backfill within the former South Pit, with the underlying spoil likely forming transmissive conditions, facilitating water loss and its movement into the surrounding geology, elevating groundwater levels at 82PcR. The conceptual relationship between ED3A and bore 82PcR is illustrated in **Figure 3-5**.



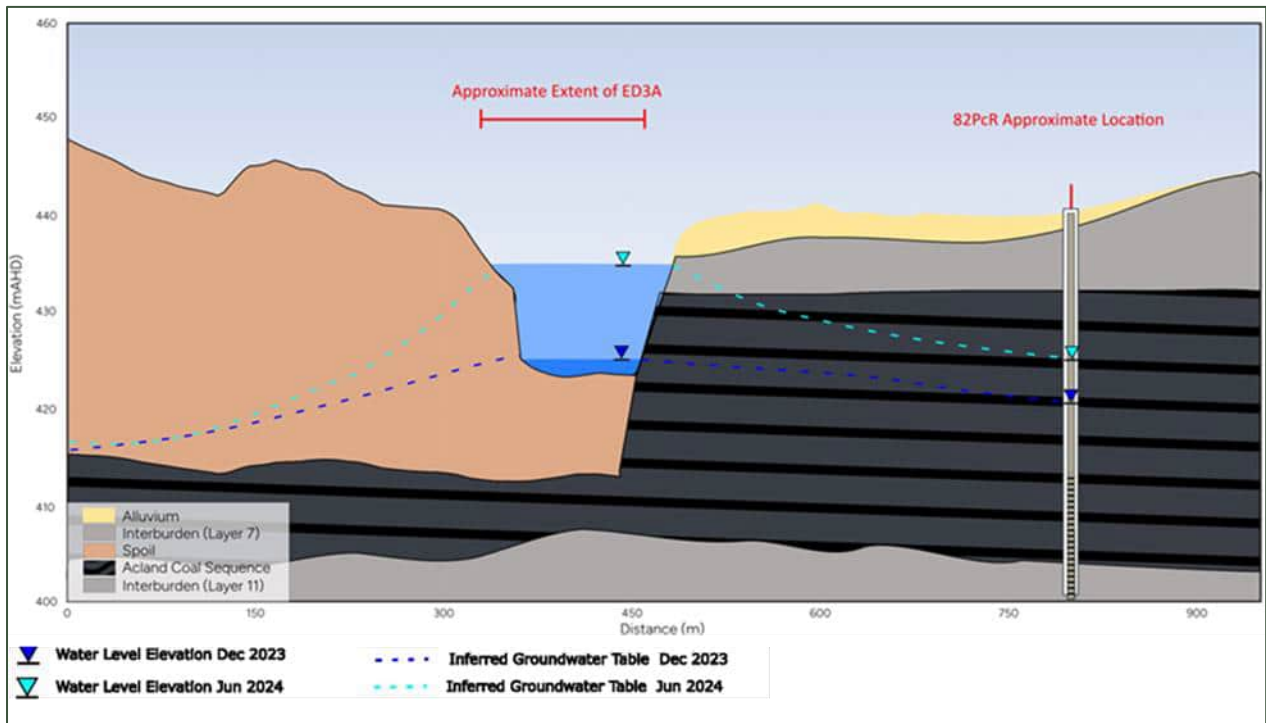


Figure 3-5 Conceptual Diagram of ED3A and 82PcR (SLR, 2024a)

3.1.3.1 Balgowan Coal Sequence

Balgowan Coal Sequence bore hydrographs (**Appendix A** and **Figure 3-6**) generally indicate stable groundwater levels, with the exception of bores 18PcR and 2291P, which show a pattern of drawdown followed by recovery, associated with pre-Project (Stage 2) mining activities. No response to Project mining activities is noted at these bores. Marginal but consistent groundwater level increases (approximately 1 to 2 m over the past 8 years) are observed in bores 25PcR, 26PcR, and 3314_WB.

Similar trends, although over shorter monitoring periods, are seen at bores 27PcR, 28PcR, GW19B, and CSMH1Rb, where groundwater levels have risen by approximately 1 m over the last 2.5 years. Bores installed around June 2023, including 113WBR, 132WBR, BCS1, and BCS3, have also shown a general trend of increasing groundwater levels since monitoring began in March 2023.

Only bores 27PcR and 28PcR, and possible also 18PcR, display a response to the 2021-22 wetter than average climatic period, although as previously noted the response at 18PcR is also attributable to recovery following pre-Project (Stage 2) mining activities.



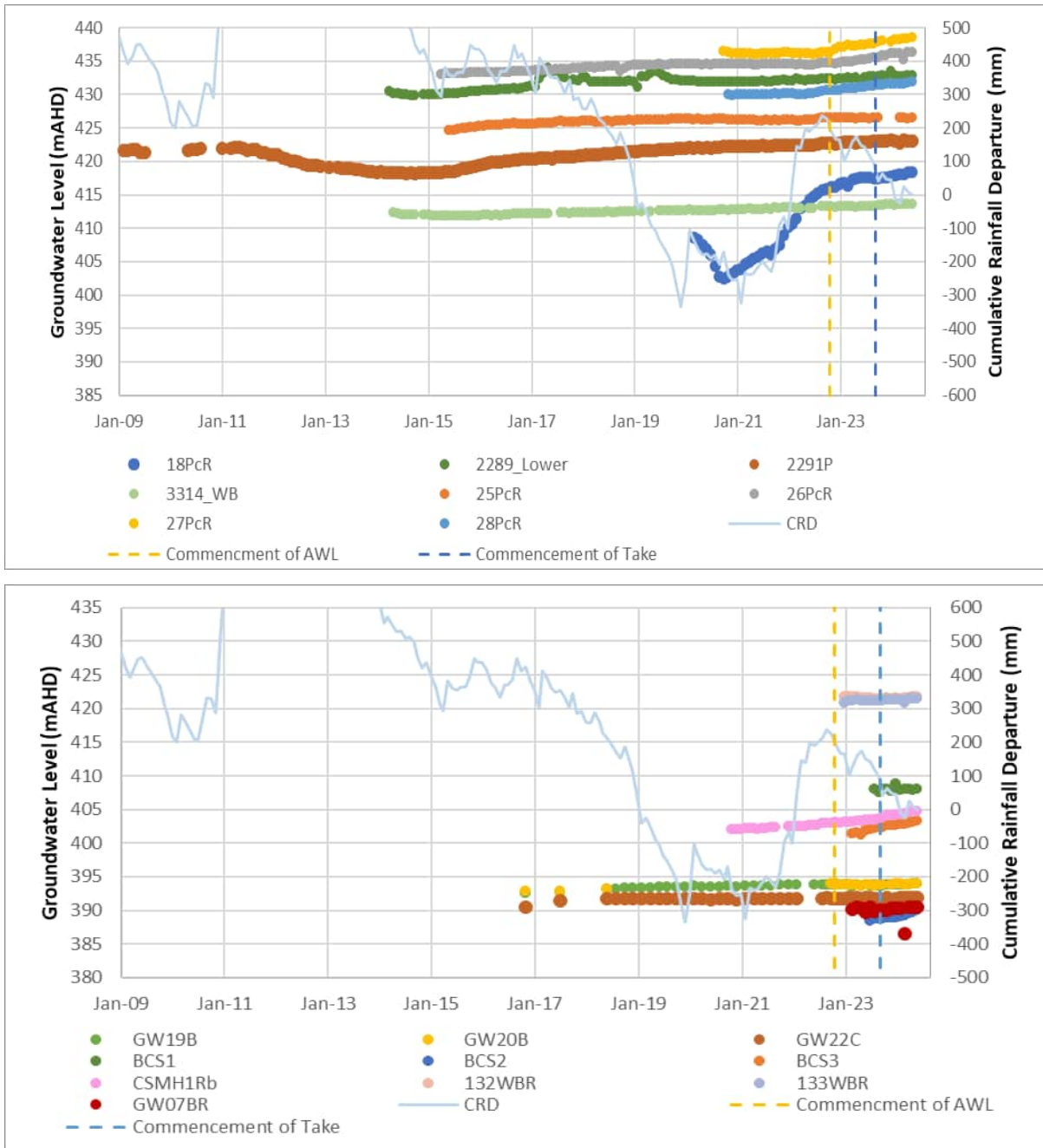


Figure 3-6 Balgowan Coal Sequence Groundwater Level Hydrographs



3.1.3.2 Marburg Sandstone

Marburg Sandstone bore hydrographs (**Appendix A** and **Figure 3-7**) generally show relatively stable groundwater levels over the recent monitoring record, with the exception of GW08C. Bore GW08C shows a steadily decreasing groundwater level since bore installation in mid-2016, with the rate of decline approximating 1.8 m per year since that time. Given the bore’s location to the distant southwest of NAC’s current and historic activities (and being outside the Project Area), NAC’s historic mining activities would not be the cause of this decline. Bores 41P, 48P GW09C and GW11B, continue to show groundwater level recovery following the cessation of NAC’s historic groundwater extraction for mine process water supply in 2010 (SLR, 2018a). There is no indication of groundwater level response to the 2021-22 wetter than average climate period.

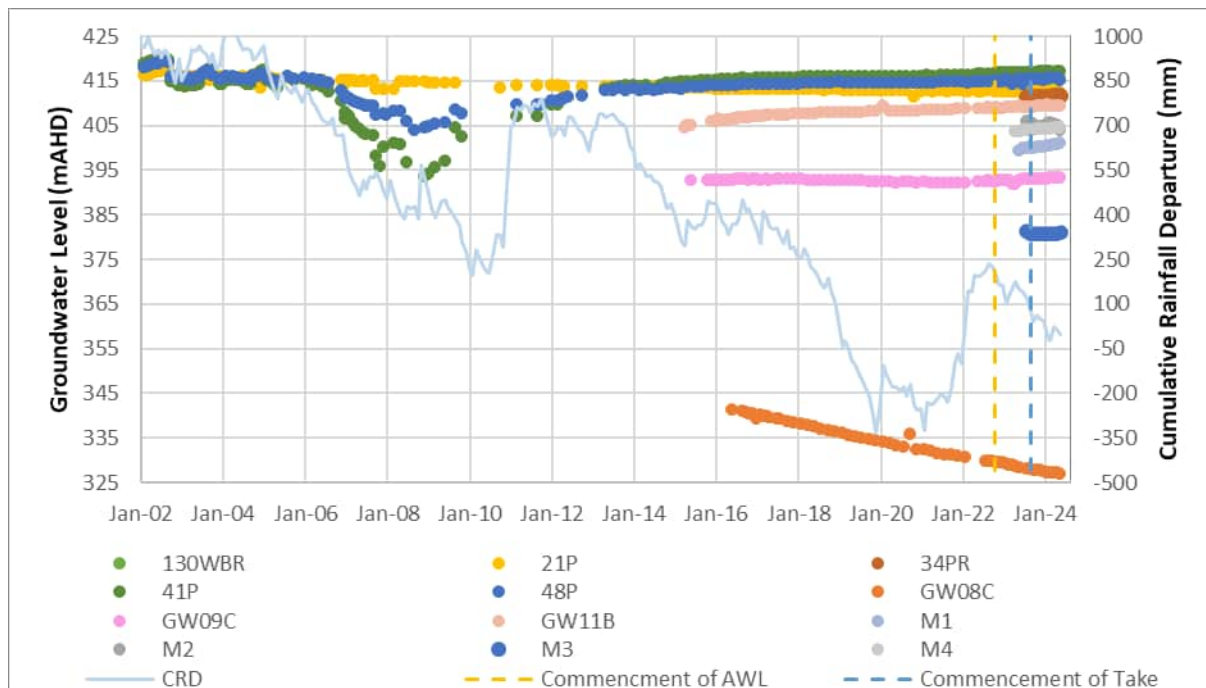


Figure 3-7 Marburg Sandstone Groundwater Level Hydrographs

3.1.3.3 Helidon Sandstone

The hydrograph for the Helidon Sandstone bore (**Appendix A** and **Figure 3-8**) indicates relatively stable groundwater levels since monitoring resumed in December 2022, following a gap in monitoring between mid-2016 and December 2022. More recently, groundwater levels have risen by approximately 3 m between October 2023 and April 2024. Historically, groundwater levels at this bore have shown variability linked to New Acland Coal’s groundwater extraction for mine process water supply, which ceased in 2010 (SLR, 2018a).

3.1.3.4 Rehabilitated Spoil

The rehabilitated spoil bore 3307_WBR hydrograph (**Appendix A** and **Figure 3-9**) shows stable groundwater levels over the available monitoring record.



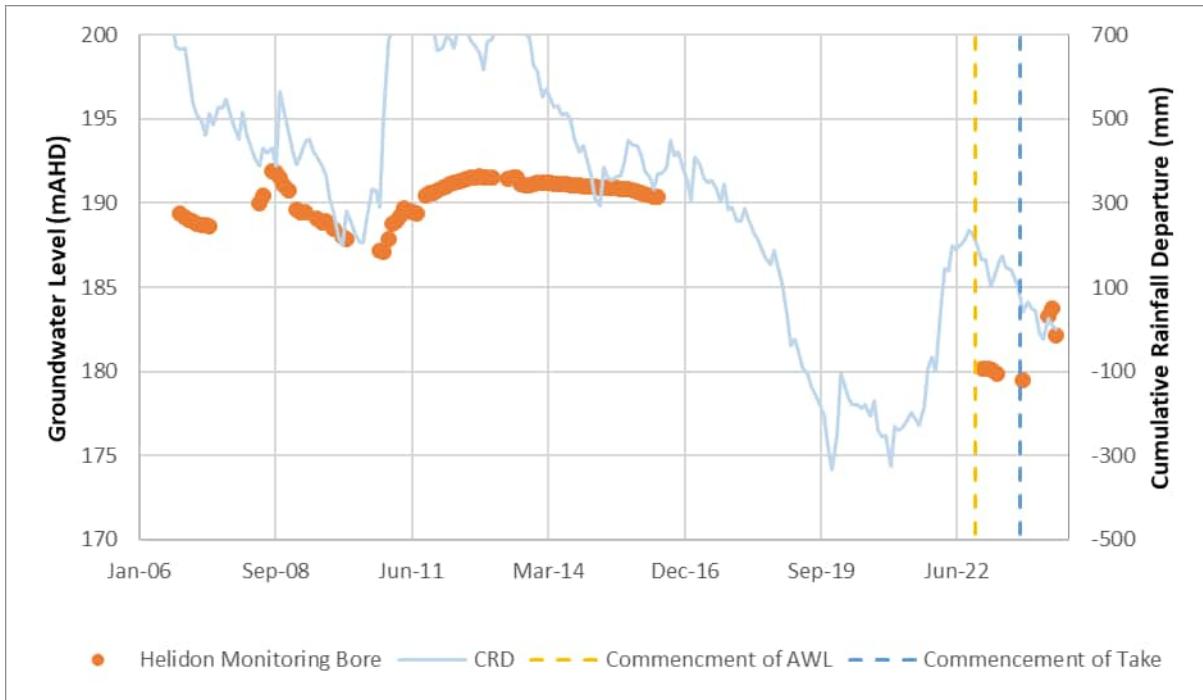


Figure 3-8 Helidon Sandstone Groundwater Level Hydrograph

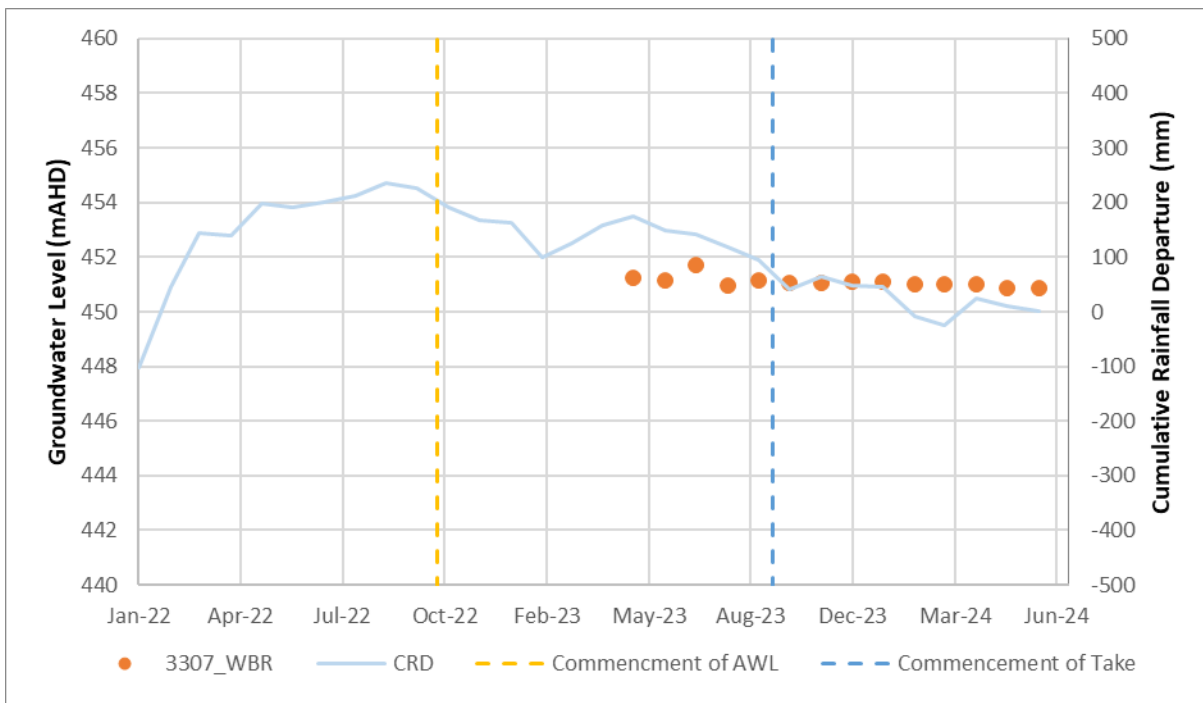


Figure 3-9 Rehabilitated Spoil Groundwater Level Hydrograph



3.1.4 Calculation of Actual Groundwater Drawdown

It is considered that for the purposes of the AWL, the calculation of actual groundwater drawdown caused by the Project should be made by the comparison of the groundwater level monitoring results after the commencement of take with groundwater levels recorded prior to the commencement of take (i.e. 'baseline' reference levels). In this manner, groundwater drawdown arising from the Project would be the difference between ongoing monitoring results and the groundwater levels recorded in the lead up to the Project mining activities intersecting groundwater.

The drawdown at the end of the reporting period (30th June 2024) relative to the pre-take groundwater levels (pre-14th September 2023) for each bore is shown **Table 3-2** and summarised in **Figure 3-10**. Negative drawdown values represent an increase (rise) in groundwater levels at the end of the reporting period relative to pre-take groundwater levels while a positive drawdown value represents a decrease (lowering) in groundwater levels at the end of the reporting period relative to pre-take water levels.

The Acland Coal Sequence would be expected to show the highest degree of mining influence. The Acland Coal Sequence has the highest number of bores showing negative drawdown (19 bores) and fewer showing positive drawdown (6 bores). The bores showing positive drawdown have experienced declining groundwater levels since before Stage 3 Project associated water take began, indicating a response to both historic and potentially current Stage 3 mining activities (**Section 3.1.3** and **Appendix A**).

Similarly, in the Balgowan Coal Sequence, negative drawdown is recorded at 19 bores and a marginal positive drawdown (of 0.02 m) is only recorded at 1 bore. This is consistent with historical trends noted in **Section 3.1.3** and **Appendix A**.

There are a similar number of monitoring bores in the Marburg Sandstone recording negative (8 bores) and positive (5 bores) drawdown. Greater than 1 m drawdown has only been observed at bores M2 (1.99 m) and GW08C (1.3 m). However, this is in line with historical trends which predate Stage 3 mining activities. Additionally given the location of GW08C and M2, both southwest of New Acland Coal's current and historic mining activities and outside the Project Area, it is unlikely that this drawdown is attributable to NAC's operations (**Section 3.1.3** and **Appendix A**).

The groundwater levels at bores in the Main Range Volcanics show a clear predominance of positive drawdown, with 8 bores recording positive drawdown compared to only 4 bores with negative drawdown. As discussed in **Section 3.1.3** the groundwater levels in these bores have been steadily declining since mid-2022 (i.e. the declines are not related to the commencement of associated water take by the Project) and seem to be gradually returning to pre-2021-22 levels.

In the Alluvium, only bore GW14A records a minor positive drawdown, although it has historically been noted as "dry." Groundwater levels in the Waipanna Coal Sequence and Helidon Sandstone bores show no drawdown since the commencement of take, while the Rehabilitated Spoil bore shows marginal drawdown (0.1 m) compared to pre-take levels.

Overall, the calculation of groundwater drawdown for the current reporting period indicates dominant groundwater level recovery (negative drawdown; increasing groundwater levels) at 72% of bores. The Acland and Balgowan Coal Sequences exhibit the most significant groundwater level recovery (negative drawdown), at 76% and 95% of bores respectively. The majority of the limited bores that do show decreases in groundwater levels (positive drawdown) are linked to historical groundwater level declines that predate Stage 3 Project mining operations/commencement of take and are therefore not related to Project associated water take.



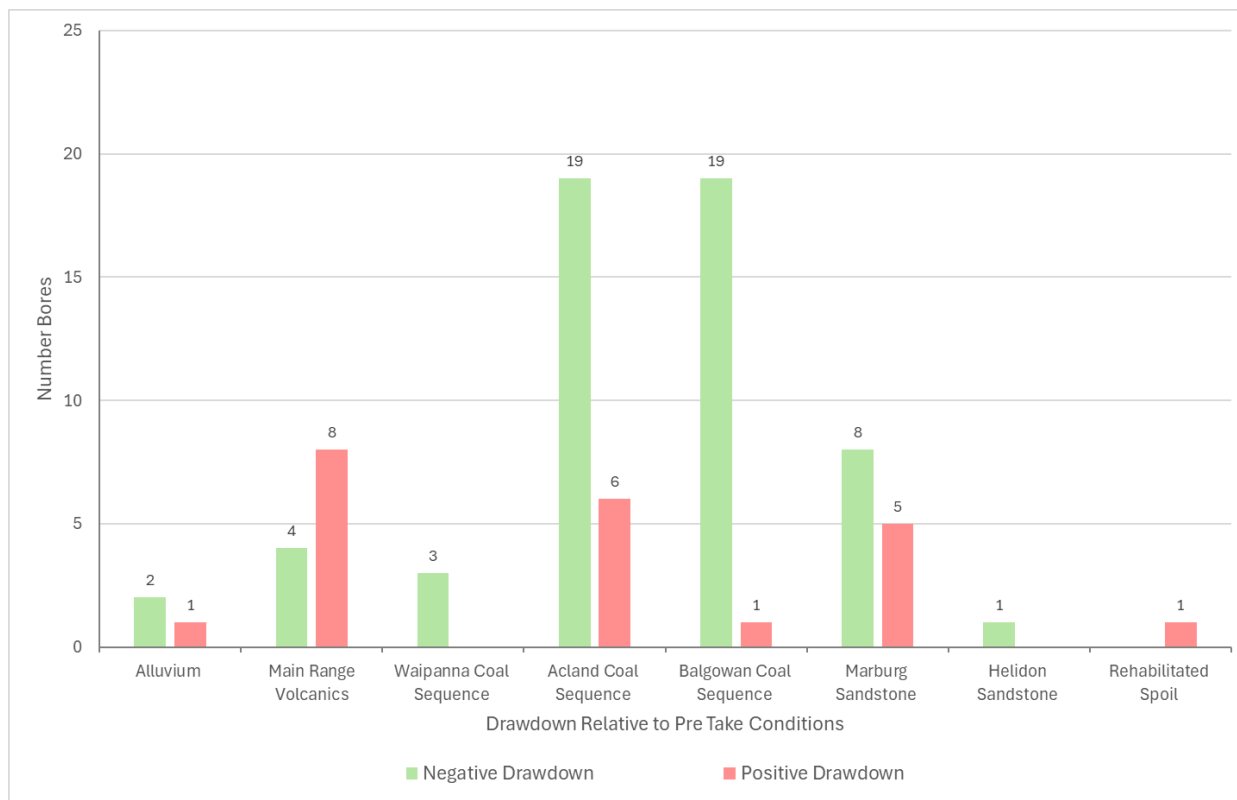


Figure 3-10 Count of bores showing negative drawdown (water level increase) and positive drawdown (water level decrease) relative to pre-take groundwater levels for each aquifer

Table 3-2 Drawdown at end of reporting period relative to pre-take (August 2023) groundwater levels

Geology	Bore	Groundwater level prior to commencement of take (mAHD)	Groundwater level end of reporting period (mAHD)	Drawdown (m)
Oakey Creek Alluvium	GW09A	391.68	391.83	-0.14
Lagoon Creek Alluvium / Weathered WCM	GW14A	395.79	395.89	-0.10
Cain Creek Alluvium	A1	418.20	418.11	0.09
Main Range Volcanics	109PR	451.10	451.23	-0.12
Main Range Volcanics	10PbR	425.57	424.80	0.76
Main Range Volcanics	18PbR	443.44	443.34	0.10
Main Range Volcanics	84PbR	438.72	438.87	-0.15
Main Range Volcanics	B1	440.20	439.70	0.50
Main Range Volcanics	B3	424.37	422.24	2.13
Main Range Volcanics	B4	-	435.85	NA
Main Range Volcanics	BMH1	439.71	439.28	0.44
Main Range Volcanics	GW05A	456.84	456.40	0.44



Geology	Bore	Groundwater level prior to commencement of take (mAHD)	Groundwater level end of reporting period (mAHD)	Drawdown (m)
Main Range Volcanics	GW11AR	448.74	448.30	0.44
Main Range Volcanics	GW15A	419.59	419.71	-0.12
Main Range Volcanics	GW16A	450.76	450.90	-0.14
Waipanna Coal Sequence	GW13B	400.70	400.70	0.00
Waipanna Coal Sequence	GW22A	392.85	392.99	-0.14
Waipanna Coal Sequence	WCS1	-	430.73	NA
Waipanna Coal Sequence	WCS2	399.94	401.13	-1.19
Acland Coal Sequence	112PR	390.83	390.89	-0.06
Acland Coal Sequence	113PGCB	407.15	407.21	-0.06
Acland Coal Sequence	114P	382.27	382.67	-0.40
Acland Coal Sequence	116P	390.25	390.53	-0.28
Acland Coal Sequence	118P	393.16	393.36	-0.21
Acland Coal Sequence	119P	392.10	392.27	-0.17
Acland Coal Sequence	4517WB	406.95	406.63	0.32
Acland Coal Sequence	4518WB	407.32	407.31	0.01
Acland Coal Sequence	81PcR	420.12	421.77	-1.65
Acland Coal Sequence	82PcR	421.89	425.45	-3.56
Acland Coal Sequence	ACS1	408.62	408.88	-0.26
Acland Coal Sequence	ACS2	429.73	430.85	-1.12
Acland Coal Sequence	GW05B	411.75	411.58	0.17
Acland Coal Sequence	GW06B	402.26	405.20	-2.94
Acland Coal Sequence	GW08B	400.36	400.55	-0.19
Acland Coal Sequence	GW09B	392.65	393.01	-0.36
Acland Coal Sequence	GW10	403.50	404.19	-0.69
Acland Coal Sequence	GW12B	401.82	402.90	-1.08
Acland Coal Sequence	GW17AR	359.53	360.21	-0.69
Acland Coal Sequence	GW18	392.71	392.84	-0.13
Acland Coal Sequence	GW19A	397.22	397.21	0.01
Acland Coal Sequence	GW20A	397.24	397.30	-0.06
Acland Coal Sequence	GW22B	392.59	392.72	-0.13
Acland Coal Sequence	111PGC LowerR	403.71	402.57	1.14
Acland Coal Sequence	111PGC UpperR	403.89	402.69	1.20
Balgowan Coal Sequence	132WBR	421.53	421.77	-0.24
Balgowan Coal Sequence	133WBR	421.19	421.43	-0.24
Balgowan Coal Sequence	18PcR	417.57	418.44	-0.88
Balgowan Coal Sequence	2289 Lower	432.61	432.78	-0.17
Balgowan Coal Sequence	2291P	422.94	423.09	-0.15



Geology	Bore	Groundwater level prior to commencement of take (mAHD)	Groundwater level end of reporting period (mAHD)	Drawdown (m)
Balgowan Coal Sequence	25PcR	426.44	426.48	-0.04
Balgowan Coal Sequence	26PcR	435.40	436.29	-0.88
Balgowan Coal Sequence	27PcR	437.55	438.49	-0.94
Balgowan Coal Sequence	28PcR	431.22	431.86	-0.64
Balgowan Coal Sequence	3314_WB	413.27	413.58	-0.31
Balgowan Coal Sequence	BCS1	407.96	407.94	0.02
Balgowan Coal Sequence	BCS2	388.69	390.05	-1.36
Balgowan Coal Sequence	BCS3	402.21	403.25	-1.05
Balgowan Coal Sequence	CSMH1Rb	403.47	404.75	-1.28
Balgowan Coal Sequence	GW07BR	389.84	390.48	-0.63
Balgowan Coal Sequence	GW19B	393.75	393.92	-0.17
Balgowan Coal Sequence	GW20B	393.69	393.96	-0.27
Balgowan Coal Sequence	GW22C	391.81	391.91	-0.10
Marburg Sandstone	130WBR	415.18	415.44	-0.26
Marburg Sandstone	21P	412.63	412.22	0.41
Marburg Sandstone	34PR	411.27	411.58	-0.31
Marburg Sandstone	41P	416.85	417.13	-0.28
Marburg Sandstone	48P	415.42	414.95	0.46
Marburg Sandstone	GW08C	328.19	326.84	1.35
Marburg Sandstone	GW09C	392.85	393.19	-0.34
Marburg Sandstone	GW11B	409.14	409.39	-0.25
Marburg Sandstone	M1	399.97	401.10	-1.13
Marburg Sandstone	M2	405.87	403.88	1.99
Marburg Sandstone	M3	381.24	380.95	0.29
Marburg Sandstone	M4	403.84	404.48	-0.64
Helidon Sandstone	Helidon Bore	179.84	182.11	-2.27
Rehabilitated Spoil	3307_WBR	450.98	450.88	0.10

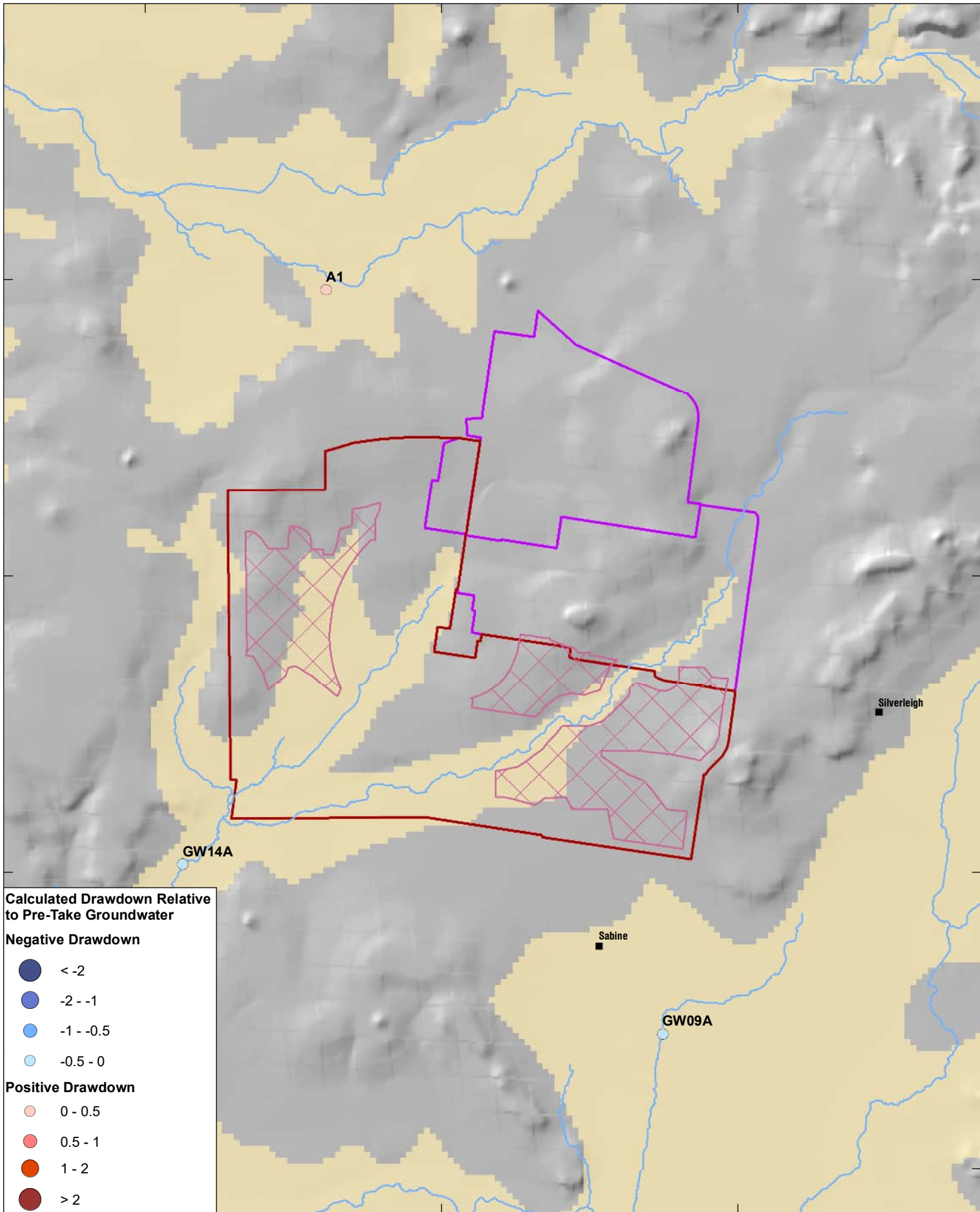
NA = no pre-take groundwater level to calculate drawdown

3.1.5 Maps of Actual Groundwater Drawdown

Maps of the calculated groundwater level drawdown in each aquifer, as shown **Table 3-2** and summarised in **Figure 3-10**, are provided as **Figure 3-11** to **Figure 3-17**.



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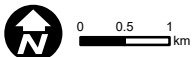
Calculated Drawdown Relative to Pre-Take Groundwater

Negative Drawdown

- < -2
- -2 - -1
- -1 - -0.5
- -0.5 - 0

Positive Drawdown

- 0 - 0.5
- 0.5 - 1
- 1 - 2
- > 2



Coordinate System: AGD 1984 AMG Zone 56
 Scale: 1:85,000 at A4
 Project Number: 620.11303.00424
 Date: 27-Sep-2024
 Drawn by: AS

- Localities
- Surface Drainage
- Indicative Stage 3 Pit Shells
- New Acland Mine
- NAC03 Project Area
- Modelled Formation Extent

**NEW ACLAND STAGE 3
 PROJECT AWL ANNUAL
 MONITORING REPORT 2024**

**DRAWDOWN-
 ALLUVIUM**



FIGURE 3-11

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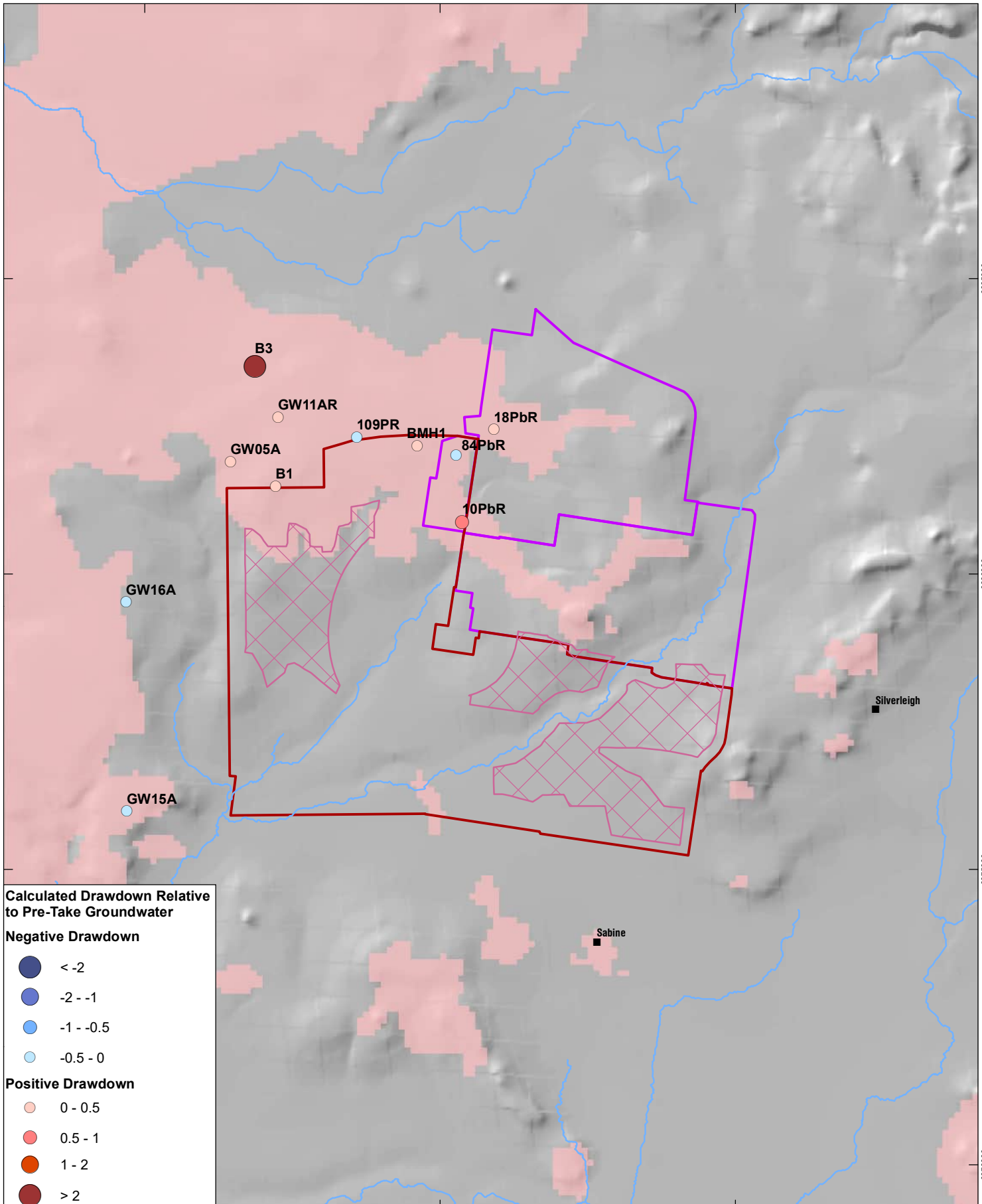
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Calculated Drawdown Relative to Pre-Take Groundwater

Negative Drawdown

- < -2
- -2 - -1
- -1 - -0.5
- -0.5 - 0

Positive Drawdown

- 0 - 0.5
- 0.5 - 1
- 1 - 2
- > 2



Coordinate System: AGD 1984 AMG Zone 56
 Scale: 1:85,000 at A4
 Project Number: 620.11303.00424
 Date: 27-Sep-2024
 Drawn by: AS

- Localities
- Surface Drainage
- Indicative Stage 3 Pit Shells
- New Acland Mine
- NAC03 Project Area
- Modelled Formation Extent



**NEW ACLAND STAGE 3
PROJECT AWL ANNUAL
MONITORING REPORT 2024**

**DRAWDOWN-
MAIN RANGE VOLCANICS**

FIGURE 3-12

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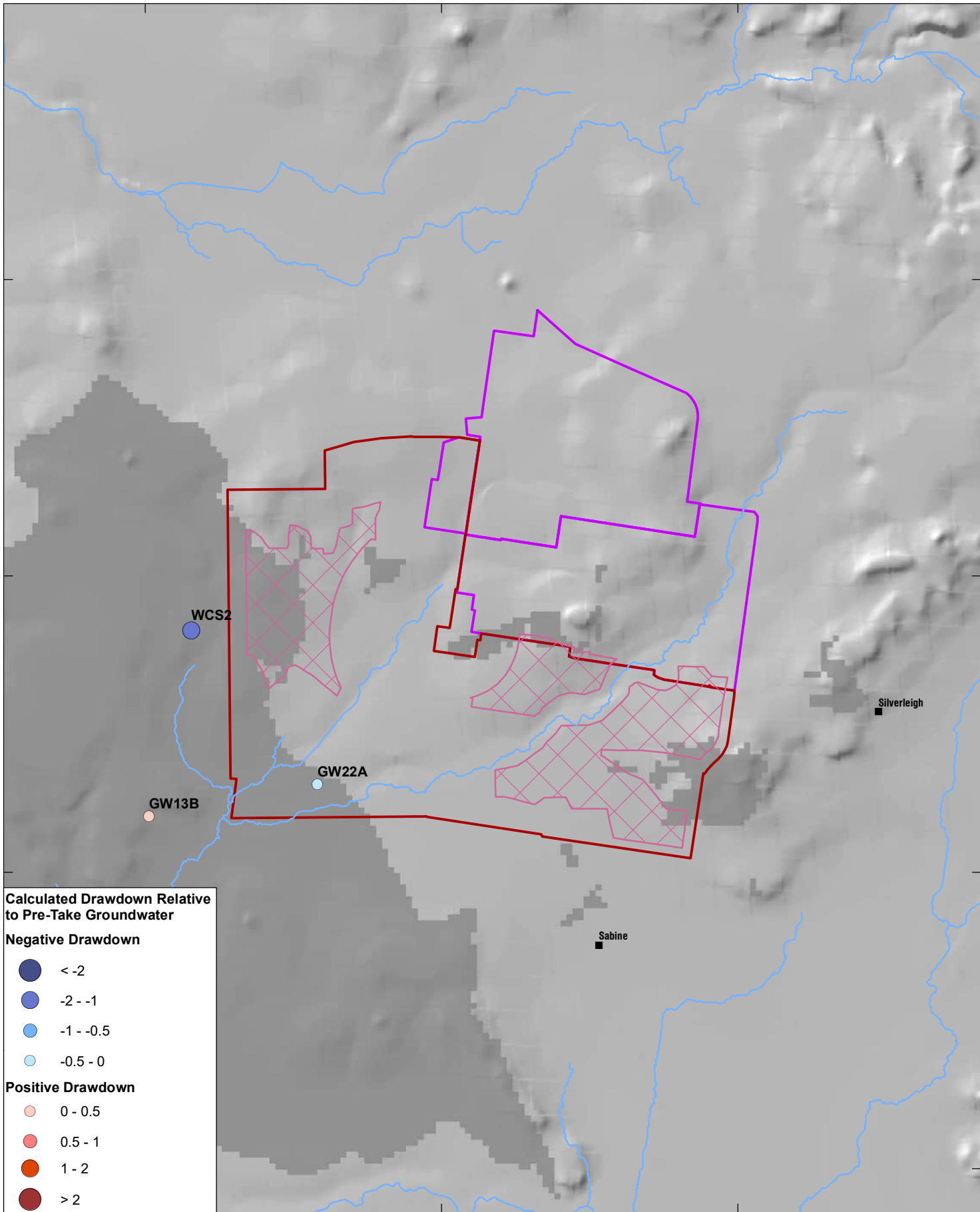
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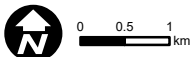
Calculated Drawdown Relative to Pre-Take Groundwater

Negative Drawdown

- < -2
- -2 - -1
- -1 - -0.5
- -0.5 - 0

Positive Drawdown

- 0 - 0.5
- 0.5 - 1
- 1 - 2
- > 2



Coordinate System: AGD 1984 AMG Zone 56
 Scale: 1:85,000 at A4
 Project Number: 620.11303.00424
 Date: 27-Sep-2024
 Drawn by: AS

- Localities
- Surface Drainage
- Indicative Stage 3 Pit Shells
- New Acland Mine
- NAC03 Project Area
- Modelled Formation Extent

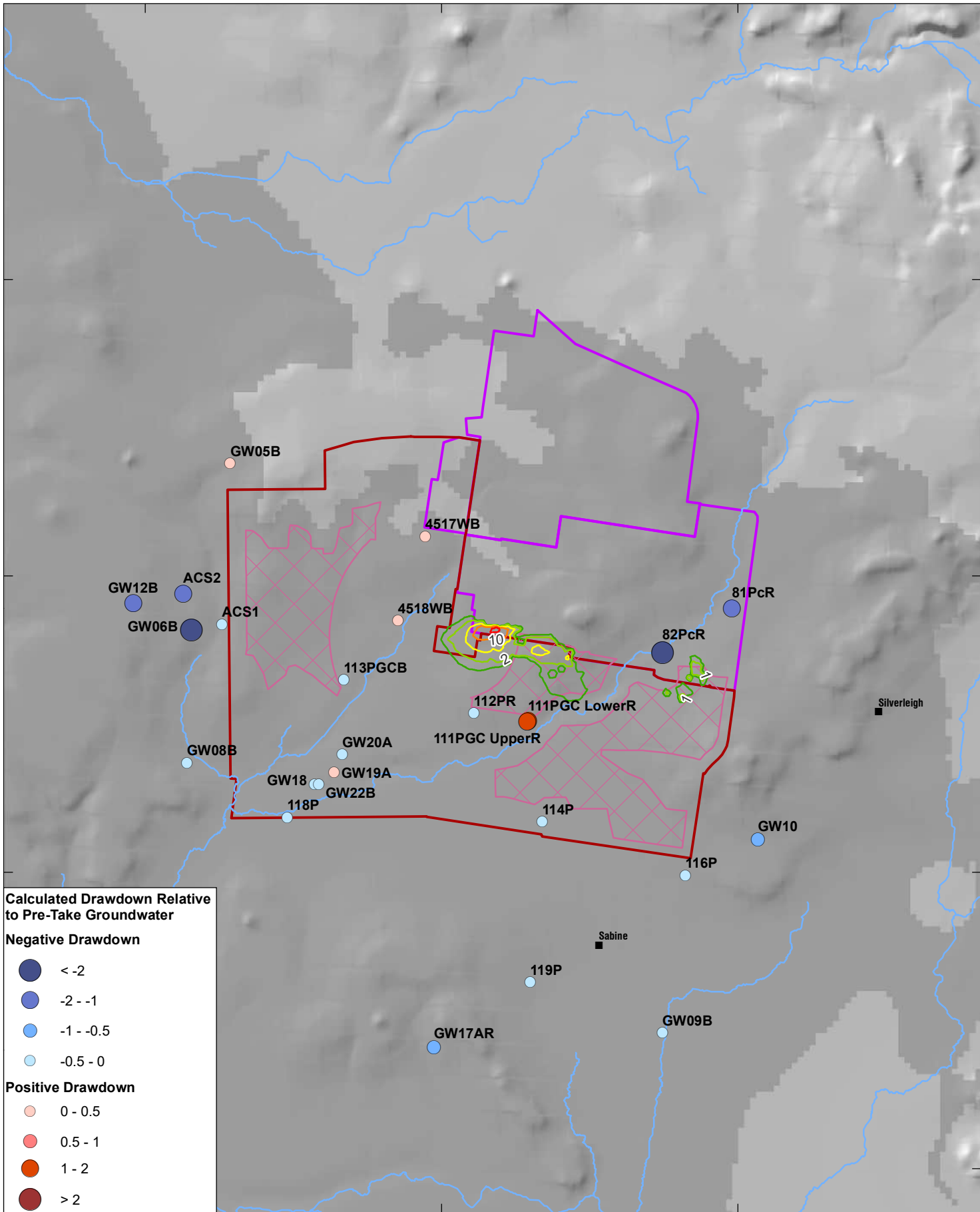
**NEW ACLAND STAGE 3
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 MONITORING REPORT 2024**

**DRAWDOWN-
 WAIPANNA COAL SEQUENCE**



FIGURE 3-13

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Calculated Drawdown Relative to Pre-Take Groundwater

Negative Drawdown

- < -2
- -2 - -1
- -1 - -0.5
- -0.5 - 0

Positive Drawdown

- 0 - 0.5
- 0.5 - 1
- 1 - 2
- > 2



0 0.5 1 km

Coordinate System: AGD 1984 AMG Zone 56
 Scale: 1:85,000 at A4
 Project Number: 620.11303.00424
 Date: 27-Sep-2024
 Drawn by: AS

- Localities
- Surface Drainage
- Indicative Stage 3 Pit Shells
- New Acland Mine
- NAC03 Project Area
- Modelled Formation Extent

- 2023 Model Predicted Drawdown (m)**
- Metre Percentile**
- 1
 - 2
 - 5
 - 10
 - 15

**NEW ACLAND STAGE 3
 PROJECT AWL ANNUAL
 MONITORING REPORT 2024**

**DRAWDOWN-
 ACLAND COAL SEQUENCE**



FIGURE 3-14

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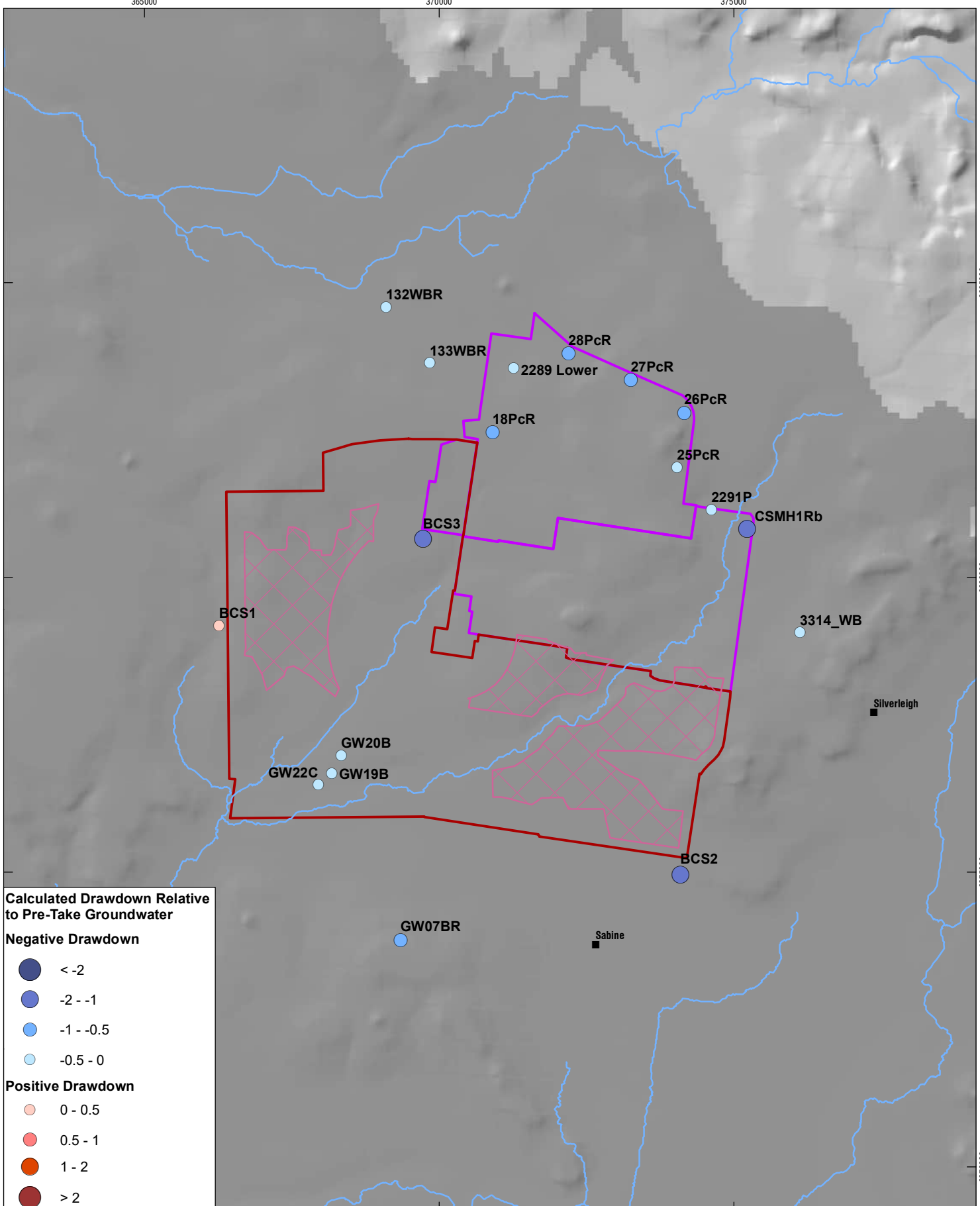
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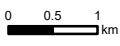
Calculated Drawdown Relative to Pre-Take Groundwater

Negative Drawdown

- -2
- $-2 - -1$
- $-1 - -0.5$
- $-0.5 - 0$

Positive Drawdown

- $0 - 0.5$
- $0.5 - 1$
- $1 - 2$
- > 2



Coordinate System: AGD 1984 AMG Zone 56
 Scale: 1:85,000 at A4
 Project Number: 620.11303.00424
 Date: 27-Sep-2024
 Drawn by: AS

- Localities
- Surface Drainage
- Indicative Stage 3 Pit Shells
- New Acland Mine
- NAC03 Project Area
- Modelled Formation Extent

**NEW ACLAND STAGE 3
PROJECT AWL ANNUAL
MONITORING REPORT 2024**

**DRAWDOWN-
BALGOWAN COAL SEQUENCE**



FIGURE 3-15

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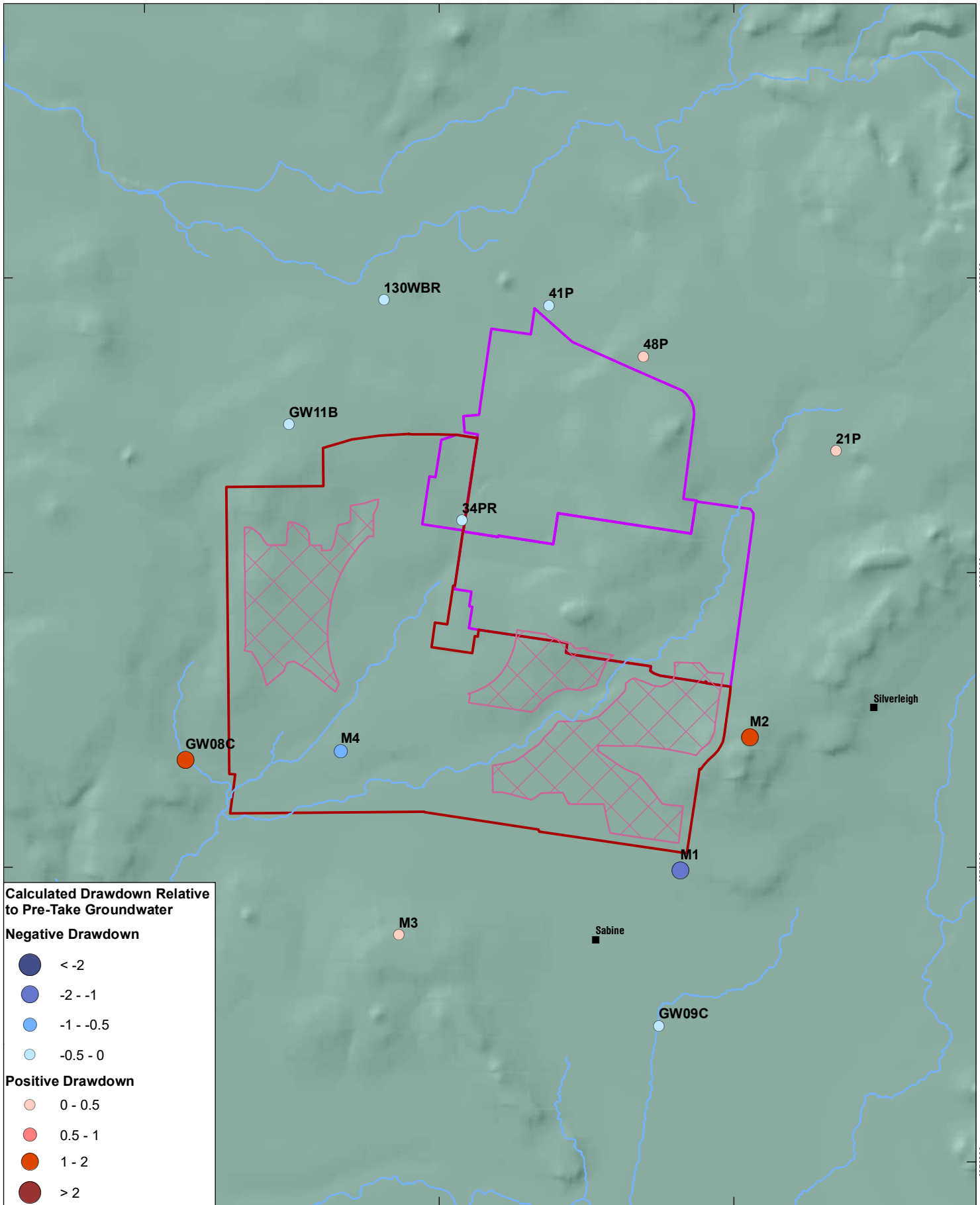
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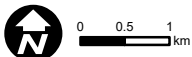
Calculated Drawdown Relative to Pre-Take Groundwater

Negative Drawdown

- < -2
- -2 - -1
- -1 - -0.5
- -0.5 - 0

Positive Drawdown

- 0 - 0.5
- 0.5 - 1
- 1 - 2
- > 2



Coordinate System: AGD 1984 AMG Zone 56
 Scale: 1:85,000 at A4
 Project Number: 620.11303.00424
 Date: 27-Sep-2024
 Drawn by: AS

- Localities
- Surface Drainage
- Indicative Stage 3 Pit Shells
- New Acland Mine
- NAC03 Project Area
- Modelled Formation Extent

**NEW ACLAND STAGE 3
PROJECT AWL ANNUAL
MONITORING REPORT 2024**

**DRAWDOWN-
MARBURG SANDSTONE**



FIGURE 3-16

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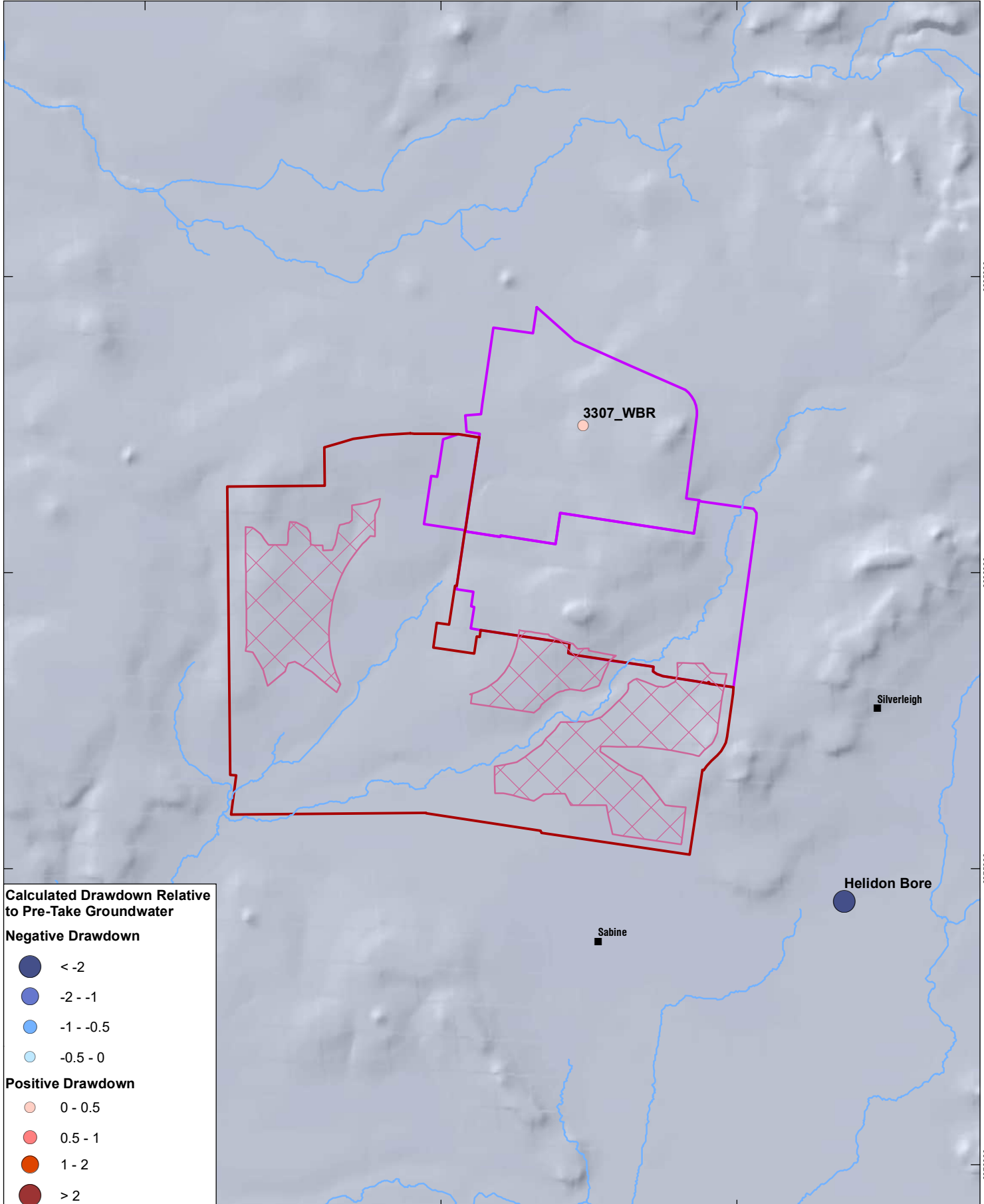
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Calculated Drawdown Relative to Pre-Take Groundwater

Negative Drawdown

- < -2
- -2 - -1
- -1 - -0.5
- -0.5 - 0

Positive Drawdown

- 0 - 0.5
- 0.5 - 1
- 1 - 2
- > 2



Coordinate System: AGD 1984 AMG Zone 56
 Scale: 1:85,000 at A4
 Project Number: 620.11303.00424
 Date: 27-Sep-2024
 Drawn by: AS

- Localities
- Surface Drainage
- Indicative Stage 3 Pit Shells
- New Acland Mine
- NAC03 Project Area
- Helidon Sandstone Formation Extent



**NEW ACLAND STAGE 3
PROJECT AWL ANNUAL
MONITORING REPORT 2024**

**DRAWDOWN-
HELIDON SANDSTONE AND
REHABILITATED SPOIL**

FIGURE 3-17

3.1.6 Comparison with Numerical Model Predicted Impacts

As outlined in **Section 4.0**, an updated numerical groundwater model has been developed for the Project during the current reporting period (SLR, 2024b). A focus of the updated model is the prediction of incremental drawdown. Stage 3 incremental drawdown predictions, as relevant to the comparison with the calculated actual groundwater drawdown, is the differential between the Base case predictions and the EA Figure 1 Mine Plan predictions reported in SLR (2024b). The objective of this calculation is to interpret the groundwater level drawdown impact attributable to the Stage 3 Project. The drawdown calculations presented in the numerical model are presented for the 50th and 95th uncertainty percentiles, noting that the 95th percentile prediction was generally adopted in the Project's AWL Application with respect to quantifying Project impacts.

Within the Project's numerical model, the predictions for Mine Year 1 most closely represent the end of the current reporting period, noting that only the Acland Coal Sequence has a predicted drawdown at the end of Mine Year 1 that is greater than 1 m (SLR, 2024b). The map provided as **Figure 3-14** above for the Acland Coal Sequence also presents the predicted incremental drawdown at the end of Mine Year 1 from the Project's updated numerical model for comparison with actual groundwater drawdown. Groundwater level monitoring during the reporting period, and subsequent calculation of actual groundwater drawdown (**Section 3.1.4**), indicates that the calculated actual drawdown is generally less than that predicted by the Project's numerical model at this stage.

3.2 Groundwater Quality

All relevant groundwater quality monitoring data is presented in **Appendix C**, however due to the number of parameters and bores it is not considered appropriate to provide a discussion on the monitoring results for each parameter at each bore. Rather, the discussion provided herein focuses on investigation of data outliers, trend analysis, and comparison with groundwater quality limit values documented in Table D2 of EA EPML00335713 for ML 50232, being the Project mining lease.

3.2.1 Groundwater Quality Hydrographs

Time series water quality plots for relevant UWMP bores, for the chemical parameters required to be monitored as per the GMMP, are provided as **Appendix C**.

It should be noted that for the purposes of data display, values at or less than the laboratory limit of reporting (LOR) have been converted to half the LOR as per DES (2021) guidelines.

3.2.2 Outlier Analysis

Data outliers (i.e. potential erroneous water quality data) have been statistically screened using Tukey's method (1977) and are shown as red points in **Appendix C**. As recommended by DES (2021), each detected outlier was further investigated using visual analysis. Data points that have been assessed as still being outliers after visual analysis are listed in **Table 3-3** and have been flagged in the SLR database.



Table 3-3 Groundwater Quality Data Outliers as Assessed by Statistical and Visual Analysis

Bore	Aquifer	Date	Analyte	Unit	Value
GW13B	Waipanna Coal Sequence	05-09-23	EC_Lab	µS/cm	705
114P	Acland Coal Sequence	06-09-23	Ammonia as N	mg/L	0.34
GW13B	Waipanna Coal Sequence	05-09-23	Mg	mg/L	3
21P	Marburg Sandstone	05-09-23	K	mg/L	15
25PcR	Balgowan Coal Sequence	04-09-23	TKN	mg/L	0.25
25PcR	Balgowan Coal Sequence	04-09-23	Total_N	mg/L	0.25
GW16A	Main Range Volcanics	30-08-23	EC_Lab	µS/cm	1710
28PcR	Balgowan Coal Sequence	29-08-23	TKN	mg/L	0.25
28PcR	Balgowan Coal Sequence	29-08-23	Total_N	mg/L	0.25
3316_WB	Acland Coal Sequence	06-09-23	Total_N	mg/L	1.1
84PbR	Main Range Volcanics	29-08-23	Ammonia as N	mg/L	0.01
GW05B	Acland Coal Sequence	30-08-23	Cl	mg/L	135
GW09C	Marburg Sandstone	07-09-23	SO4	mg/L	33
GW11B	Marburg Sandstone	28-08-23	DO_Field	mg/L	6.49
GW11B	Marburg Sandstone	28-08-23	SO4	mg/L	126
GW13B	Waipanna Coal Sequence	05-09-23	TDS	mg/L	412
GW13B	Waipanna Coal Sequence	05-09-23	Ca	mg/L	8
GW13B	Waipanna Coal Sequence	05-09-23	Total_N	mg/L	0.05
GW16A	Main Range Volcanics	30-08-23	Total_N	mg/L	1.1
GW19A	Acland Coal Sequence	31-08-23	As_diss	mg/L	0.001
GW22B	Acland Coal Sequence	31-08-23	K	mg/L	7
GW09A	Oakey Creek Alluvium	07-09-23	EC_Lab	µS/cm	2980
GW09A	Oakey Creek Alluvium	07-09-23	SO4	mg/L	18
10PbR	Main Range Volcanics	30-05-24	Mn_diss	mg/L	0.002
10PbR	Main Range Volcanics	30-05-24	Nitrite as N	mg/L	0.08
18PcR2	Balgowan Coal Sequence	30-05-24	pH_Lab	pH Unit	7.41
18PcR2	Balgowan Coal Sequence	30-05-24	Ammonia as N	mg/L	0.12
18PcR2	Balgowan Coal Sequence	30-05-24	TKN	mg/L	0.4
18PcR2	Balgowan Coal Sequence	30-05-24	Total_N	mg/L	0.4
18PcR2	Balgowan Coal Sequence	27-02-24	Nitrite as N	mg/L	0.05
27PcR	Balgowan Coal Sequence	28-02-24	pH_Field	pH Unit	6.52
27PcR	Balgowan Coal Sequence	28-02-24	TKN	mg/L	0.4
84PbR	Main Range Volcanics	27-02-24	Ammonia as N	mg/L	0.03
10PbR	Main Range Volcanics	29-02-24	Fe_diss	mg/L	0.1
4518WB	Acland Coal Sequence	18-12-23	Total_N	mg/L	1.3



Bore	Aquifer	Date	Analyte	Unit	Value
4518WB	Acland Coal Sequence	18-12-23	TKN	mg/L	1.3
4518WB	Acland Coal Sequence	29-02-24	Total_N	mg/L	1.2
4518WB	Acland Coal Sequence	29-02-24	TKN	mg/L	1.2
4518WB	Acland Coal Sequence	29-02-24	Nitrite as N	mg/L	0.025
4518WB	Acland Coal Sequence	29-02-24	Nitrate as N	mg/L	0.025
25PcR	Balgowan Coal Sequence	05-03-24	DO_Field	mg/L	0.45
25PcR	Balgowan Coal Sequence	05-03-24	Total_N	mg/L	0.25
25PcR	Balgowan Coal Sequence	05-03-24	TKN	mg/L	0.25
25PcR	Balgowan Coal Sequence	05-03-24	Nitrate as N	mg/L	0.25
26PcR	Balgowan Coal Sequence	28-02-24	Nitrate as N	mg/L	0.02
111PGC LowerR	Acland Coal Sequence	14-11-23	Nitrate as N	mg/L	0.62
111PGC LowerR	Acland Coal Sequence	01-03-24	DO_Field	mg/L	0.43
111PGC LowerR	Acland Coal Sequence	01-03-24	Cu_diss	mg/L	0.002
82PcR	Acland Coal Sequence	14-11-23	Ammonia as N	mg/L	1.57
113PGCB	Acland Coal Sequence	02-03-24	K	mg/L	6
113PGCB	Acland Coal Sequence	02-03-24	Nitrate as N	mg/L	0.3
GW06B	Acland Coal Sequence	02-03-24	Nitrate as N	mg/L	0.4
GW06B	Acland Coal Sequence	02-03-24	Mn_diss	mg/L	0.005
GW08B	Acland Coal Sequence	02-03-24	pH_Lab	pH Unit	8.56
GW08B	Acland Coal Sequence	02-03-24	Ammonia as N	mg/L	0.7
GW09C	Marburg Sandstone	03-03-24	TDS	mg/L	1240
GW09C	Marburg Sandstone	03-03-24	Na	mg/L	369
GW09C	Marburg Sandstone	03-03-24	K	mg/L	9
GW09C	Marburg Sandstone	03-03-24	SO4	mg/L	33
GW09C	Marburg Sandstone	03-03-24	Fe_diss	mg/L	0.025
GW09C	Marburg Sandstone	03-03-24	Mn_diss	mg/L	0.028
GW10	Acland Coal Sequence	04-03-24	Nitrite as N	mg/L	0.05
GW10	Acland Coal Sequence	04-03-24	Nitrate as N	mg/L	0.5
GW11B	Marburg Sandstone	27-02-24	K	mg/L	45
GW13B	Waipanna Coal Sequence	05-03-24	pH_Field	pH Unit	7.76
GW13B	Waipanna Coal Sequence	05-03-24	pH_Lab	pH Unit	7.96
GW13B	Waipanna Coal Sequence	05-03-24	EC_Lab	uS/cm	725
GW13B	Waipanna Coal Sequence	05-03-24	Mg	mg/L	3
GW13B	Waipanna Coal Sequence	05-03-24	Na	mg/L	152
GW13B	Waipanna Coal Sequence	05-03-24	Total_N	mg/L	0.05
GW13B	Waipanna Coal Sequence	05-03-24	Al_diss	mg/L	0.01



Bore	Aquifer	Date	Analyte	Unit	Value
GW13B	Waipanna Coal Sequence	05-03-24	Mn_diss	mg/L	0.008
GW16A	Main Range Volcanics	02-03-24	Ammonia as N	mg/L	0.4
GW16A	Main Range Volcanics	02-03-24	Cu_diss	mg/L	0.003
132WBR	Balgowan Coal Sequence	18-12-23	Cl	mg/L	679
21P	Marburg Sandstone	05-03-24	pH_Field	pH Unit	6.39
21P	Marburg Sandstone	05-03-24	Nitrate as N	mg/L	0.4
GW19A	Acland Coal Sequence	03-03-24	Al_diss	mg/L	0.0055
GW19A	Acland Coal Sequence	03-03-24	As_diss	mg/L	0.002
GW19A	Acland Coal Sequence	03-03-24	Cu_diss	mg/L	0.001
GW19B	Balgowan Coal Sequence	03-03-24	DO_Field	mg/L	0.43
BCS4	Balgowan Coal Sequence	14-11-23	Ammonia as N	mg/L	0.03
BCS4	Balgowan Coal Sequence	03-03-24	F	mg/L	0.1
GW22A	Waipanna Coal Sequence	03-03-24	DO_Field	mg/L	0.47
GW22B	Acland Coal Sequence	03-03-24	DO_Field	mg/L	0.44
GW22B	Acland Coal Sequence	03-03-24	K	mg/L	7
GW22B	Acland Coal Sequence	03-03-24	Cu_diss	mg/L	0.001
GW22C	Balgowan Coal Sequence	03-03-24	DO_Field	mg/L	0.4
GW22C	Balgowan Coal Sequence	03-03-24	EC_Lab	uS/cm	3120

3.2.3 Trend Analysis

The non-seasonal Mann-Kendall statistical trend test was used to detect potential trends in the groundwater quality dataset, with the results provided in **Appendix D**. It is noted that due to the updated dataset with approximately 3.5 years additional data, the results of the Mann-Kendall test show discrepancies in the pre-Project dataset as compared to the trends identified by the Mann-Kendall test undertaken as part of GMMP development (SLR, 2020). The results of the Mann-Kendall test presented herein also highlight potential pre-Project commencement trends at recently installed bores.

As shown, the Mann-Kendall test has identified increasing trends for some bores/parameters. However, only bore 82PcR records values above the EA limit values (discussed in the following **Section 3.2.4**).

3.2.4 Comparison to Limit Values

The time series plots for groundwater quality parameters were compared to the limits outlined in Table D2 of the for ML 50232 EA (EPML00335713) for exceedances. These exceedances were observed at bore 82PcR for electrical conductivity (EC), sodium, and total dissolved solids (TDS) (**Appendix C**).

As previously discussed, exceedances at bore 82PcR were subject to an investigation pursuant to EA Condition (SLR, 2024a). The investigation found that bore 82PcR, located within the Acland Coal Sequence on the southeastern side of the Stage 2 mining area but outside of (northeast of) the Project Area, likely receives recharge from adjacent



Environmental Dam 3A (ED3A) situated approximately 200 m northwest of the bore within the former South Pit (see **Section 3.1.3.4**). Since both South Pit and ED3A are considered part of Stage 2 mining activities, but not part of the Project, the exceedances at bore 82PcR are not considered to be a result of the Project.



4.0 Review of the Numerical Underground Water Model and Updated Impact Predictions

4.1 Overview

Pursuant to Condition 24 of the AWL, the first Underground Water Model Review Report for the Project was prepared in June 2024 (SLR, 2024c). The first Underground Water Model Review Report was supported by the NAC 2023 Numerical Groundwater Model Update technical report (SLR, 2024b).

4.2 Model Objectives

As reported in SLR (2024b and 2024c), the first Underground Water Model Review resulted in an updated Project numerical groundwater model and impact predictions. The overall objectives of the updated numerical modelling was to:

- Construct a numerical groundwater model for the New Acland Coal Mine site using an updated unstructured grid approach to model design incorporating the MODFLOW-USG software code and calibrating the model for updated groundwater level and pumping data recorded in the time since the previous 2018 numerical model report that supported the AWL Application.
- Simulate and predict the extents of groundwater level drawdowns in important hydrogeologic units associated with the Stage 3 mine expansion.
- Implement recommendations and requirements presented in the AWL conditions where feasible and appropriate at the current stage of model development.
- Compare the findings with the results of the 2018 predictions, which informed the granting of the AWL for Stage 3 mining activities.

4.3 Model Results

A summary of the changes encompassed in the updated version of the model is provided below.

Overall, the revised model calibration has improved matching of historic water levels and trends from the observation dataset. The most significant inclusion in calibration has been the use of the measured drawdown during the 2016 MDL_01 Fault pumping test. The result of calibration to the fault pumping test is very good, with particular emphasis on the model demonstrating its ability to not only transmit drawdown through the MDL_01 Fault (horizontal and vertical), but also at the appropriate magnitude and spatially (horizontal and vertical) variable locations. The results of this portion of the calibration provide additional confidence to the overall model performance for predictions of drawdown.

Model forward predictions incorporated three future mining scenarios, being the mine plan modelled in the AWL Application's 2018 modelling, the mine plan consistent with the current EA approval, and a mine plan based on the EA mine plan but modified to meet the requirements of AWL Condition 4 (denoted the AWL Condition 4 mine plan). The following observations are consistent for the comparison of results from all three predictive scenarios to the AWL Application's model predictions:

1. Neither model version predicts drawdown to exceed the relevant Water Act bore trigger thresholds within the alluvial aquifers or Marburg Sandstone for either the 50th or the 95th percentile results.



2. The predicted drawdown extents within the Waipanna Coal Sequence increase in areal extent as a result of the revisions to the model. The difference is primarily a result of the use of the lateral connection groups at the MDL_01 Fault, which allows direct lateral flow across layers. This functionality was not available at the time of the previous modelling using MODFLOW-SURFACT software and therefore is representative of improvements in industry practices/software since the AWL Application's model development, rather than specific deficiency in the development of the previous model.
3. The predicted drawdown extents within the Acland and Balgowan Coal Sequences decrease in areal extent as a result of the revisions to the model.
4. The revised model predicts less impacts to known third party bores than that previously predicted with the 2018 model. The one exception to this is the additional drawdown being predicted in the Waipanna Coal Sequence results in an increase in third party bores being simulated as impacted in exceedance of the Water Act bore trigger threshold of 5 m.
5. The revised model predicts an increase in indirect take from the alluvial aquifer associated with Oakey Creek when compared to the 2018 model results.
6. The estimated take from the Main Range Volcanics has reduced with the latest revision of the model. The volumetric take from the Walloon Coal Measures and the Marburg Sandstone have increased, though the indirect take from the Marburg Sandstone remains relatively small.

The comparison of predicted impacts during mining between the EA mine plan and the AWL Condition 4 mine plan indicates negligible difference in impacts between the two mine plans.

All predictions are consistent with what would be expected from the predictions of impacts associated with mining operations. Although differences from previous modelling results occur, the differences overall are consistent with the best practice method of continual/periodic revision of models as more information becomes available and modelling techniques evolve.

Table 4-1 provides a summary of the number of third party bores subject to predicted drawdown exceeding the trigger thresholds for each geologic unit. A comparison is provided to that which was similarly reported in Table 8 of the AWL Application Report. As indicated in **Table 4-1**, the revised model predicts less impacts to known third party bores than that previously predicted with the 2018 model. The one exception to this is, the additional drawdown being predicted in the Waipanna Coal Sequence, as previously described in **Section 3.1.6**, results in an increase in third party bores being simulated as impacted in exceedance of the relevant Water Act bore trigger threshold of 5 m.



**Table 4-1 Comparison of Number of Predicted Impacts to Known 3rd Party Bores –
 AWL Mine Plan (SLR, 2024b)**

Geologic Unit	Number of 3rd Party Bores Subjected to Drawdown Exceeding the Trigger Threshold			
	AWL Application		2023 Model	
	50th Percentile	95th Percentile	50th Percentile	95th Percentile
Alluvium (2m)	0	0	0	0
Main Range Volcanics (2m)	4	4	0	2
Waipanna Coal Sequence (5m)	0	0	2	3
Acland Coal Sequence (5 m)	5	12	4 ¹	6 ¹
Balgowan Coal Sequence (5m)	0	0	0	0
Marburg Sandstone (5m)	0	0	0	0
Total	9	16	6	11

1. Includes one third party bore assessed to be accessing the interburden below the Acland Coal Sequence



5.0 Review of the UWMP Monitoring Network

Coincident with the SLR (2024c) Underground Model Review Report, a review of the Project’s UWMP was completed in accordance with AWL Condition 18 and reported in SLR (2024d) (Appendix E of the Underground Model Review Report).

The UWMP review found that:

1. The Surat CMA UWIR considered in the Project’s UWMP (effective 1 May 2022) remains the current UWIR relevant to the UWMP. Therefore, there are no new UWIR outputs relevant to the UWMP.
2. There are no areas of predicted drawdown exceeding the relevant Water Act bore trigger threshold for either the alluvium or the Marburg Sandstone. The UWMP monitoring networks for those aquifers is therefore deemed to remain appropriate.
3. The existing UWMP monitoring network for Acland and Balgowan coal sequences is deemed to remain appropriate for the Project and its UWMP, given the existing UWMP monitoring network adequately encompasses the area of predicted drawdown exceeding the relevant Water Act bore trigger threshold.
4. An additional monitoring bore in each of the Main Range Volcanics to the west of the Project, and Waipanna Coal Sequence to the south of the Project, is deemed warranted to monitor for impacts to identified third party supply bores in areas of predicted groundwater drawdown not covered by existing UWMP monitoring bores. Nominal locations for the two recommended additional UWMP monitoring bores are provided in 1 (SLR, 2024d).

Table 5-1 Recommended Additional UWMP Monitoring Bores (SLR, 2024d)

Proposed Monitoring Bore	Latitude (GDA2020)	Longitude (GDA2020)	Aquifer
B6	-27.293219	151.618508	Main Range Volcanics
WCS3	-27.350595	151.680323	Waipanna Coal Sequence

The location of these proposed additional bores is provided on **Figure 5-1**.



365000

370000

375000

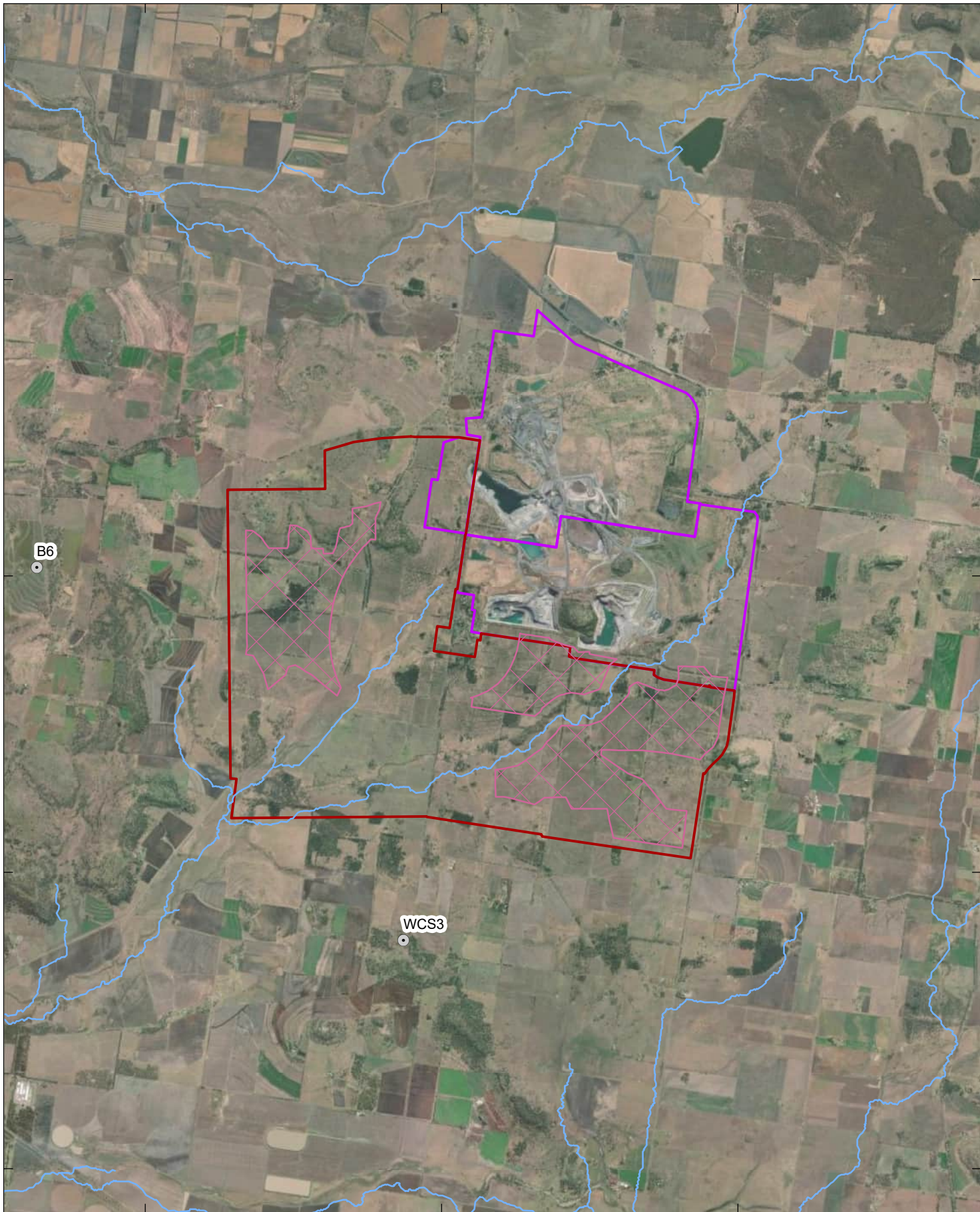
6865000

6880000

6875000






6870000

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0 0.5 1 km

Coordinate System: AGD 1984 AMG Zone 56
 Scale: 1:85,000 at A4
 Project Number: 620.11303.00424
 Date: 27-Sep-2024
 Drawn by: AS

-  Additional UWMP Monitoring Bore
-  Surface Drainage
-  Indicative Stage 3 Pit Shells
-  New Acland Mine
-  NAC03 Project Area

**NEW ACLAND STAGE 3
 PROJECT AWL ANNUAL
 MONITORING REPORT 2024**

**RECOMMENDED ADDITIONAL
 UWMP MONITORING BORES**



FIGURE 5-1

6.0 Conclusions

6.1 General

In the current reporting period (July 2023 through June 2024, groundwater monitoring was carried out as required by the New Acland Stage 3 Project's UWMP.

This Annual Monitoring Report is prepared in accordance with the UWMP and AWL Condition 22 covers the period from 1st July 2023 up until the 30th of June 2024. Project surface operations commenced in May 2023, however underground water take did not commence until on or about 14th September 2023, part way through the reporting period, coincident with the mining of first coal at the Project. This Annual Monitoring Report, the second such report, is the first to be developed after the commencement of take.

6.2 Groundwater Levels

Groundwater level monitoring was carried out on a monthly basis at installed UWMP bores. As new UWMP bores were being actively installed over the reporting period, and some UWMP bores remain to be installed after the reporting period, groundwater level monitoring data is not available at all AWL bores for every month of the reporting period.

Analysis of groundwater level monitoring data for the UWMP bores, including assessment of the full historic record for each bore, shows the following key outcomes:

- Statistically significant increasing or decreasing water level trends are apparent for many bores. The non-seasonal Mann-Kendall statistical trend test identified increasing or decreasing water level trends in approximately 79% of bores, with 56% showing upward trends (increasing groundwater levels) and 23% showing downward trends (decreasing groundwater levels). Approximately 21% of bores exhibited no discernible statistical trend, suggesting stable groundwater levels over the monitoring period or insufficient data for analysis.
- Alluvial bores demonstrate a response to climatic conditions, particularly following the wetter-than-average period in 2021-22, with groundwater levels rising in several bores. Notably, bore GW09A shows marginal increases, while bores such as GW14A and A1 indicate a rapid recharge response to rainfall events. Some alluvial bores, however, such as A2, remained dry throughout the monitoring period.
- Main Range Volcanics displayed two distinct trends. A group of bores showed significant water level increases following the 2021-22 wetter-than-average period, while others, primarily located to the south, exhibited relatively stable groundwater levels with minimal response to climate variations. Groundwater levels in the former group have since gradually returned to pre-2021 levels.
- The Waipanna Coal Sequence bores generally displayed stable groundwater levels with no significant response to climatic changes. Minor fluctuations were observed in bores such as GW13B and GW22A, but these were negligible in the broader regional groundwater context.
- Acland Coal Sequence bores showed mixed responses, with some bores exhibiting drawdown linked to historic and ongoing mining activities, while others displayed stable or marginally increasing trends. Notably, bores 82PcR experienced significant water level rises, likely due to influence from adjacent Environmental Dam 3A (not part of the Stage 3 Project).
- The Balgowan Coal Sequence bores demonstrated stable groundwater levels, with marginal increases in several bores (approximately 1 to 2 m over approximately



8 years). However, two bores in proximity to Stage 2 mining operations exhibited drawdown followed by recovery, associated with pre-Project (Stage 2) mining activities.

- Marburg Sandstone bores generally showed stable groundwater levels, with the exception of GW08C, which exhibited a steady decline, unrelated to mining activities.

The Helidon Sandstone and rehabilitated spoil bores similarly exhibited stable groundwater levels, with recent monitoring indicating no major changes.

6.3 Drawdown

The groundwater drawdown assessment for the reporting period (ending 30 June 2024) relative to pre-take groundwater levels (prior to 13 September 2023) provides an important baseline for understanding the Project's impact on groundwater levels.

The majority of bores across the Acland and Balgowan Coal Sequences recorded negative drawdown values, indicating groundwater level rise (recovery) rather than lowering of groundwater levels. Specifically, 19 bores in each sequence show negative drawdown, suggesting an increase in groundwater levels after the commencement of take, with only a few bores in these sequences exhibiting positive drawdown, which can be attributed to pre-existing trends rather than Stage 3 Project operations.

In contrast, the Main Range Volcanics bores predominantly recorded positive drawdown, with 8 out of 12 bores experiencing groundwater level declines. These declines are consistent with trends observed since mid-2022 (i.e. a continuation of existing trends that were apparent prior to the commencement of take), suggesting they are related to climatic influences rather than direct mining activity.

The Marburg Sandstone bores presented mixed results, with both significant and marginal drawdown in a few bores; however, the location of these bores outside the Project Area suggests that their declines are not attributable to Project mining operations.

Minimal drawdown was observed in other formations, with the Alluvium, Waipanna Coal Sequence, and Helidon Sandstone bores showing negligible changes compared to pre-take conditions. The Rehabilitated Spoil bore recorded a marginal drawdown of 0.1 m.

Overall, the data indicates that groundwater level changes over the reporting period are largely influenced by natural factors or historical trends. The Acland and Balgowan Coal Sequences in particular demonstrate notable groundwater recovery, suggesting minimal immediate impact from the Project's groundwater take. Further monitoring will be required to assess any long-term drawdown effects as groundwater take continues.

6.4 Groundwater Quality

Groundwater quality monitoring was carried out at installed UWMP bores in accordance with the Project's EA. As new UWMP bores were being actively installed over the reporting period, and some UWMP bores remain to be installed after the reporting period, groundwater quality monitoring data is not available at all AWL bores for every sampling event of the reporting period.

While a detailed discussion of all bores and parameters was not conducted, analysis focused on outlier detection, trend evaluation, and exceedance comparisons with the EA limits for ML 50232.

Outlier analysis flagged potential erroneous data points, which were carefully reviewed, with verified outliers documented. The Mann-Kendall trend analysis identified some increasing trends across the dataset, though only bore 82PcR displayed values consistently exceeding the EA's groundwater quality limits. Specifically, electrical conductivity (EC), sodium, and



total dissolved solids (TDS) exceeded the EA limit values in bore 82PcR, likely due to recharge from ED3A or seepage from the South Pit spoil on which ED3A is situated. Since both South Pit and ED3A existed pre-Project and are not part of the Project, the groundwater quality changes observed at 82PcR are not considered to be a result of Project activities.

6.5 Review of Impact Predictions and Monitoring Network

Pursuant to Condition 24 of the AWL, the first Underground Water Model Review Report for the Project was prepared in June 2024 (i.e. during the reporting period). The first Underground Water Model Review Report was supported by the NAC 2023 Numerical Groundwater Model Update technical report and AWL Condition 18 UWMP Review, both appendices to the Underground Water Model Review Report.

The first Underground Water Model Review Report presented an updated numerical groundwater model for the Project. Key outcomes of the updated model included:

1. A continuation of no prediction of drawdown exceeding the relevant Water Act bore trigger thresholds within the alluvial aquifers or Marburg Sandstone for either the 50th or the 95th percentile results.
2. The predicted drawdown extents within the Waipanna Coal Sequence increase in areal extent as a result of the revisions to the model. The difference is primarily a result of the use of the lateral connection groups at the MDL_01 Fault, which allows direct lateral flow across layers.
3. The predicted drawdown extents within the Acland and Balgowan Coal Sequences decrease in areal extent as a result of the revisions to the model.
4. The revised model predicts less impacts to known third party bores than that previously predicted with the previous 2018 model supporting the AWL Application. The one exception to this is the additional drawdown being predicted in the Waipanna Coal Sequence results in an increase in third party bores being simulated as impacted in exceedance of the Water Act bore trigger threshold of 5 m.
5. The revised model predicts an increase in indirect take from the alluvial aquifer associated with Oakey Creek when compared to the 2018 model results.
6. The estimated take from the Main Range Volcanics has reduced with the latest revision of the model. The volumetric take from the Walloon Coal Measures and the Marburg Sandstone have increased, though the indirect take from the Marburg Sandstone remains relatively small.

The Condition 18 UWMP Review found that:

1. There are no new Surat CMA UWIR outputs relevant to the UWMP.
2. The UWMP monitoring networks for the alluvium and Marburg Sandstone aquifers, as well as the Acland and Balgowan coal sequences, remains appropriate.
3. An additional monitoring bore in each of the Main Range Volcanics to the west of the Project, and Waipanna Coal Sequence to the south of the Project, is deemed warranted to monitor for impacts to identified third party supply bores in areas of predicted groundwater drawdown not covered by existing UWMP monitoring bores.



7.0 References

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SLR, 2024c Underground Water Model Review Report – New Acland Stage 3 Project.
Prepared for New Acland Coal Pty Ltd by SLR Consulting Australia Pty Ltd

SLR, 2024d New Acland Stage 3 Project AWL Condition 18 Underground Water
Monitoring Program Review. Prepared for New Acland Coal Pty Ltd by SLR
Consulting Australia Pty Ltd.





Appendix A Groundwater Level Hydrographs

Associated Water License 2024 Annual Monitoring Report

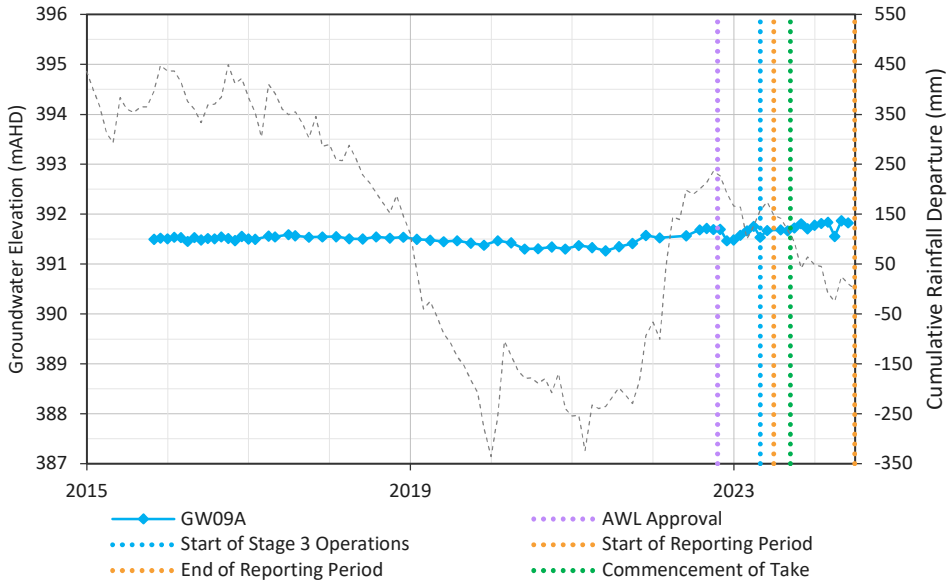
New Acland Stage 3 Project

New Acland Coal Pty Ltd

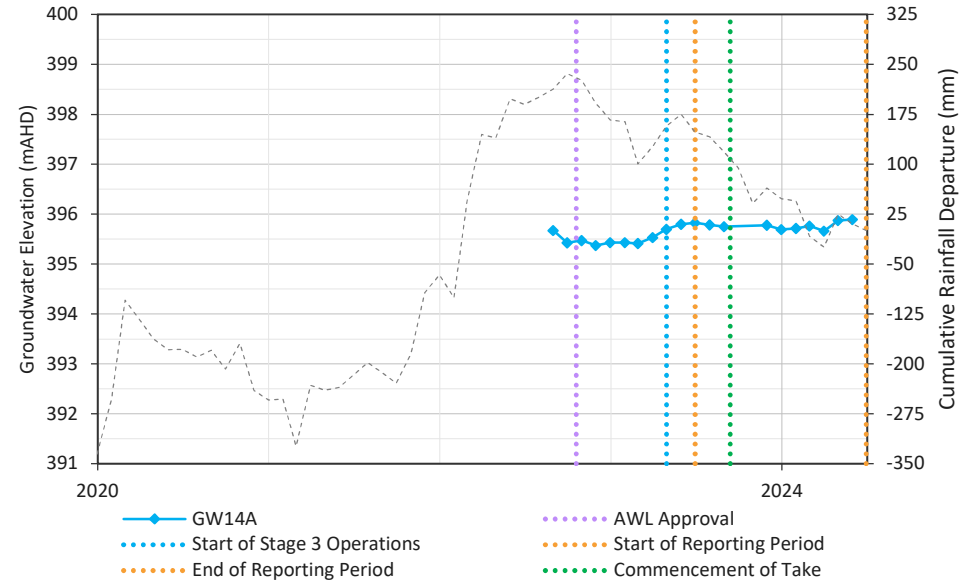
SLR Project No.: 620.041560.00001-v1.0

27 September 2024

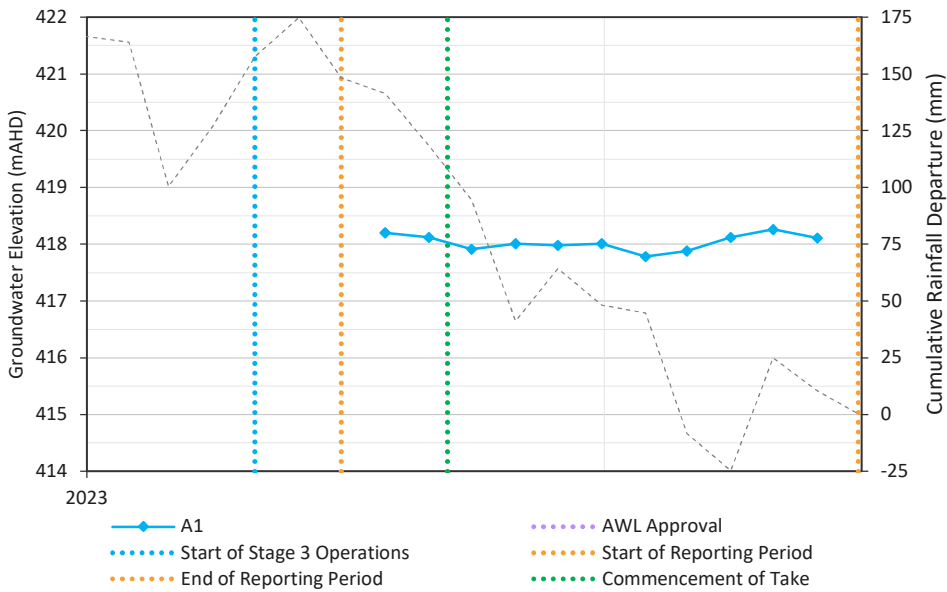
GW09A Oakey Creek Alluvium



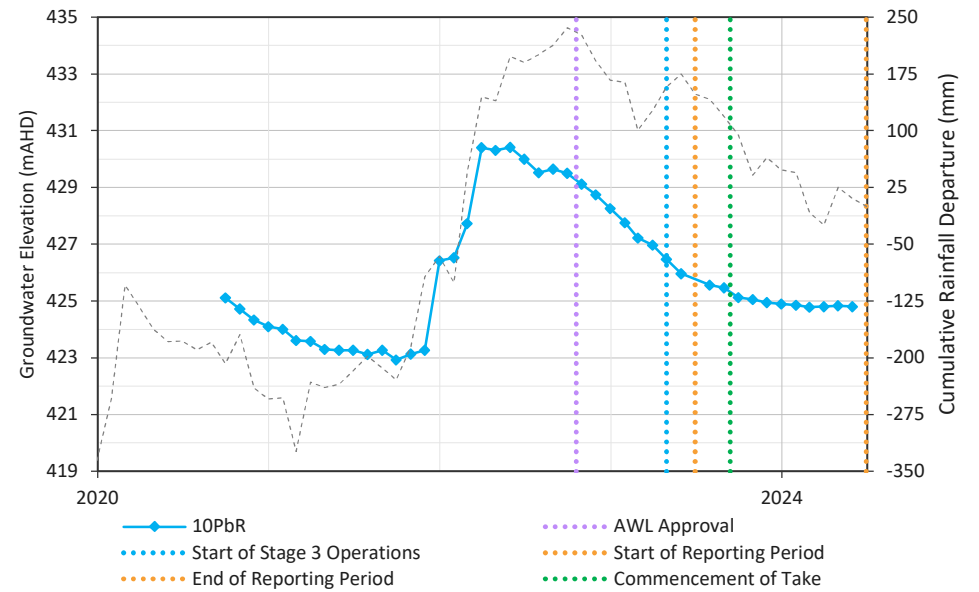
GW14A Lagoon Creek Alluvium / Weathered WCM



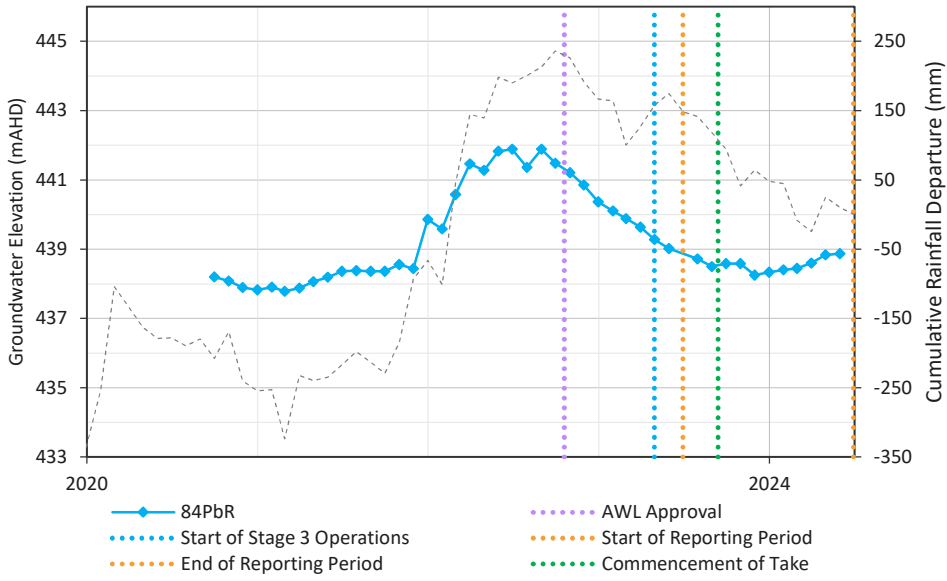
A1 Cain Creek Alluvium



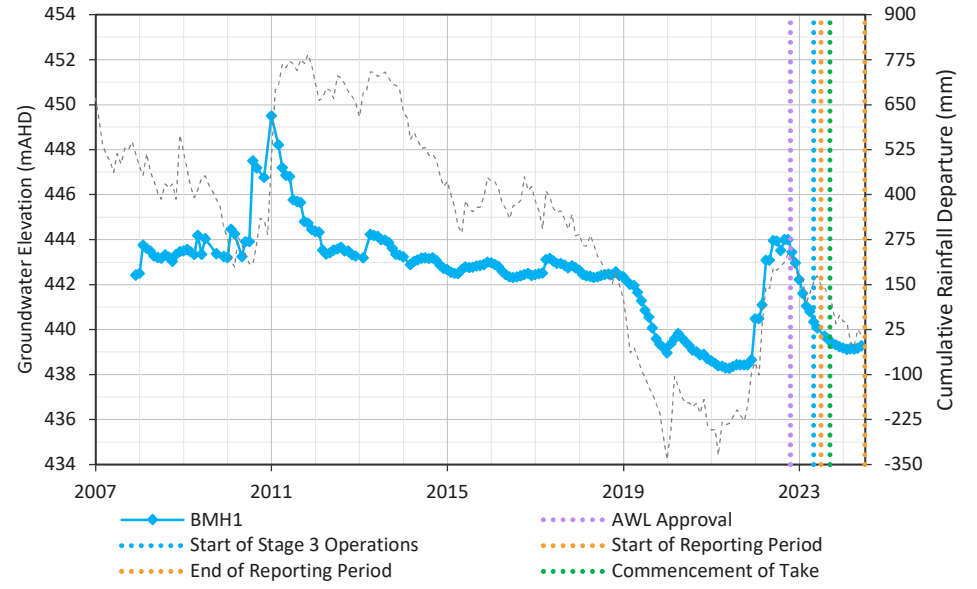
10PbR Main Range Volcanics



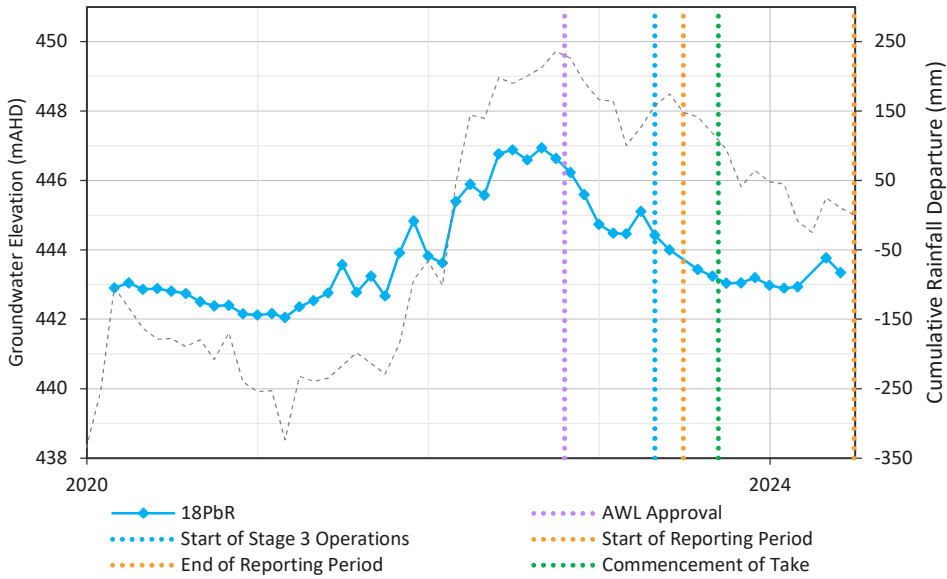
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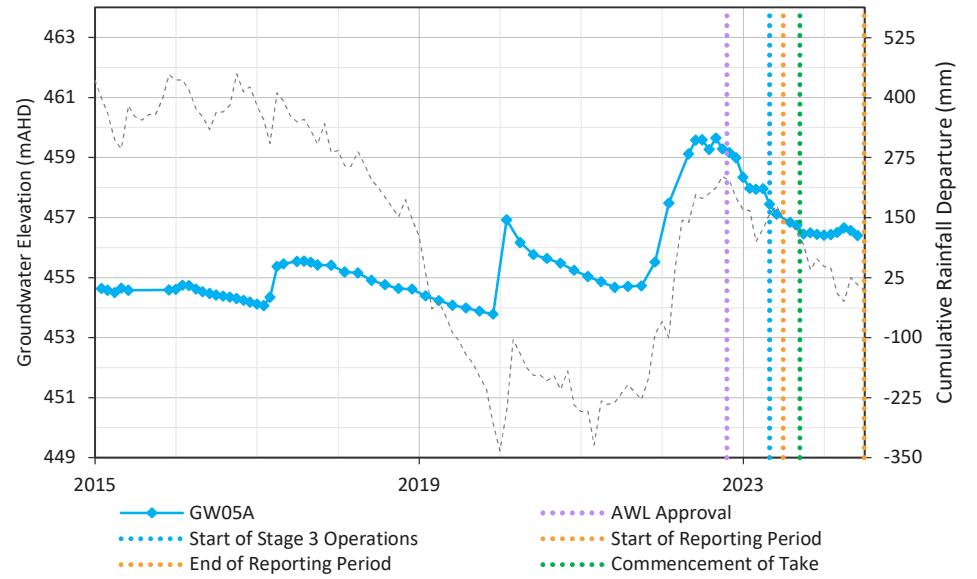
BMH1 Main Range Volcanics



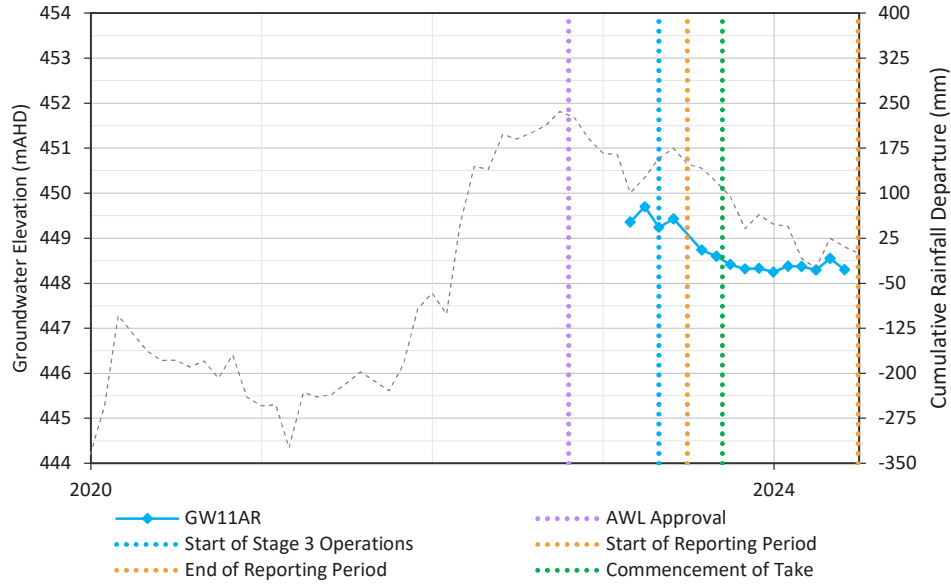
18PbR Main Range Volcanics



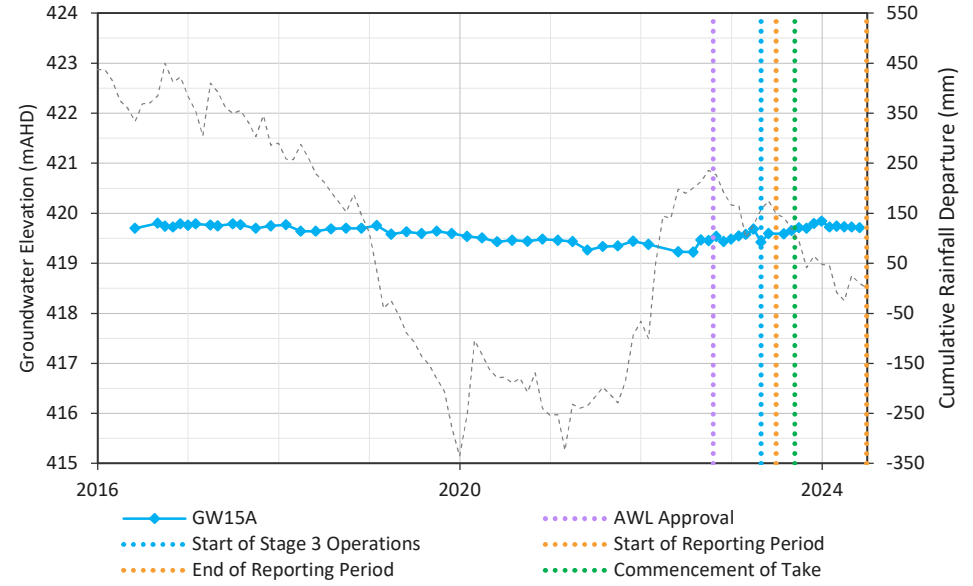
GW05A Main Range Volcanics



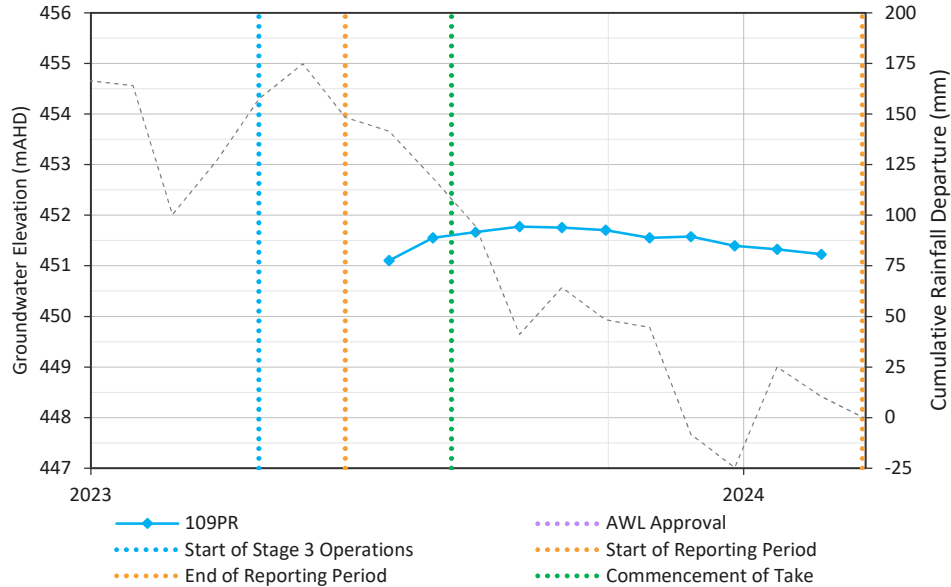
GW11AR Main Range Volcanics



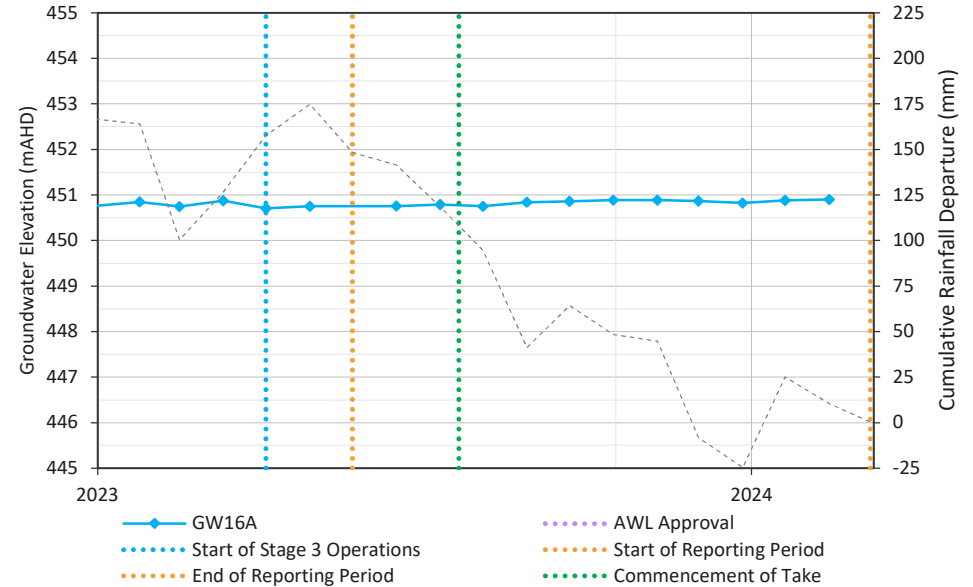
GW15A Main Range Volcanics



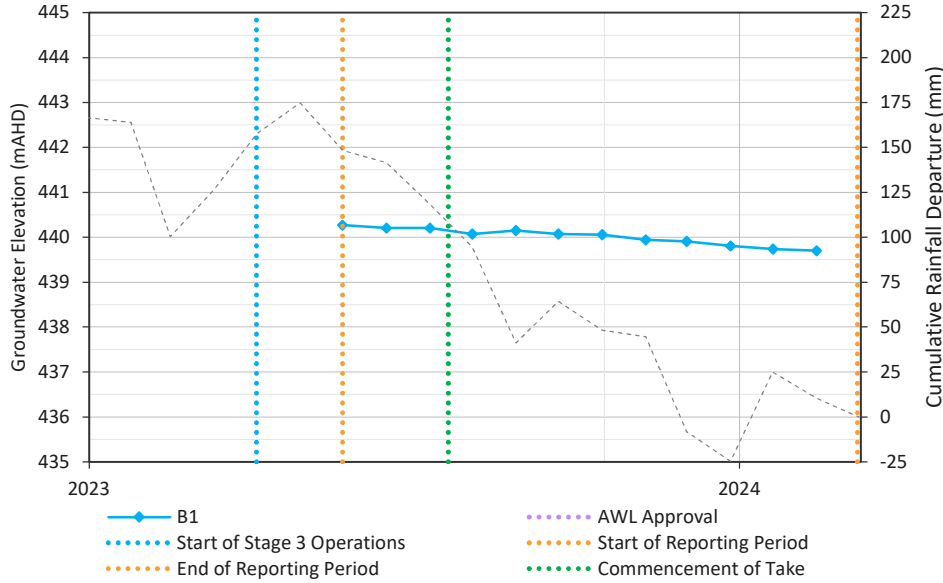
109PR Main Range Volcanics



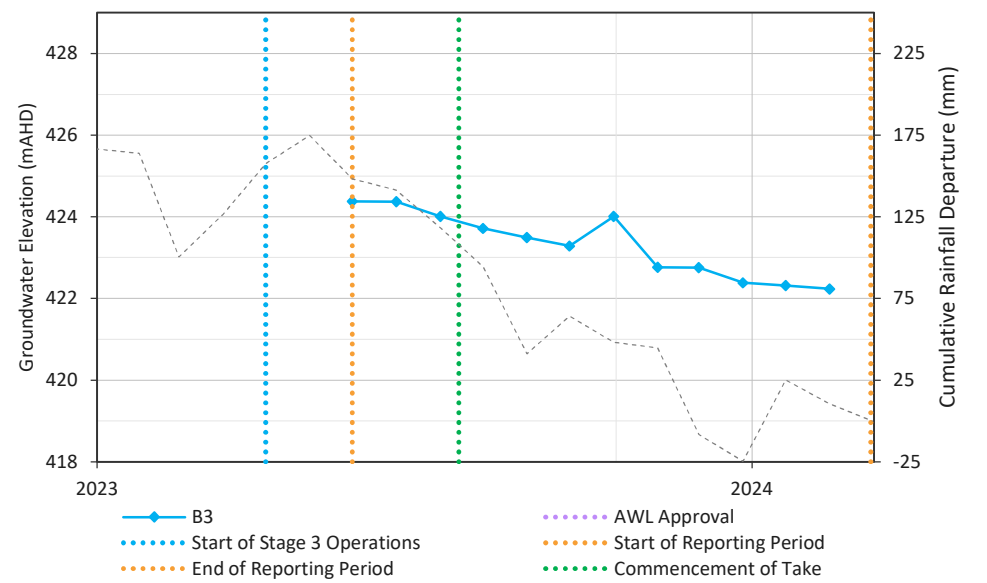
GW16A Main Range Volcanics



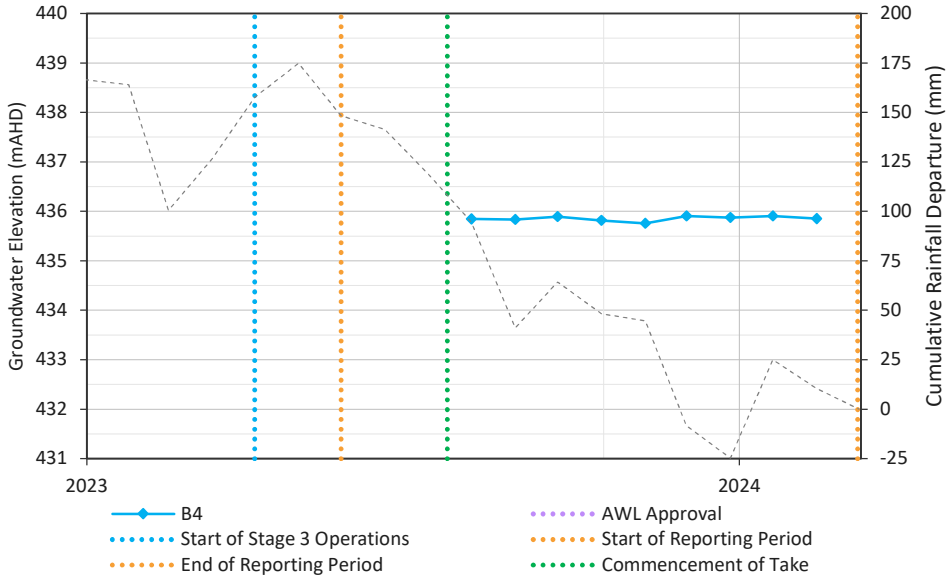
B1 Main Range Volcanics



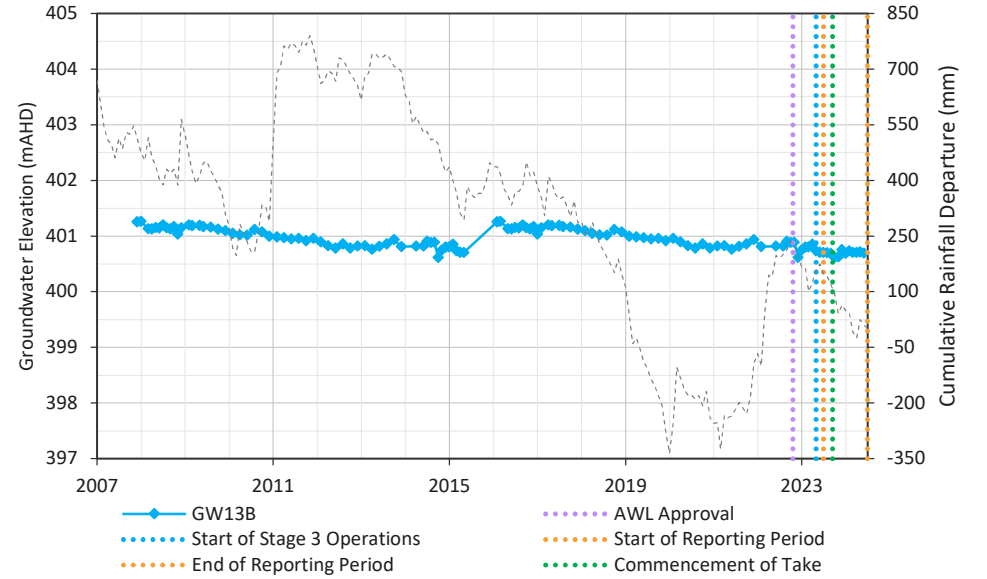
B3 Main Range Volcanics



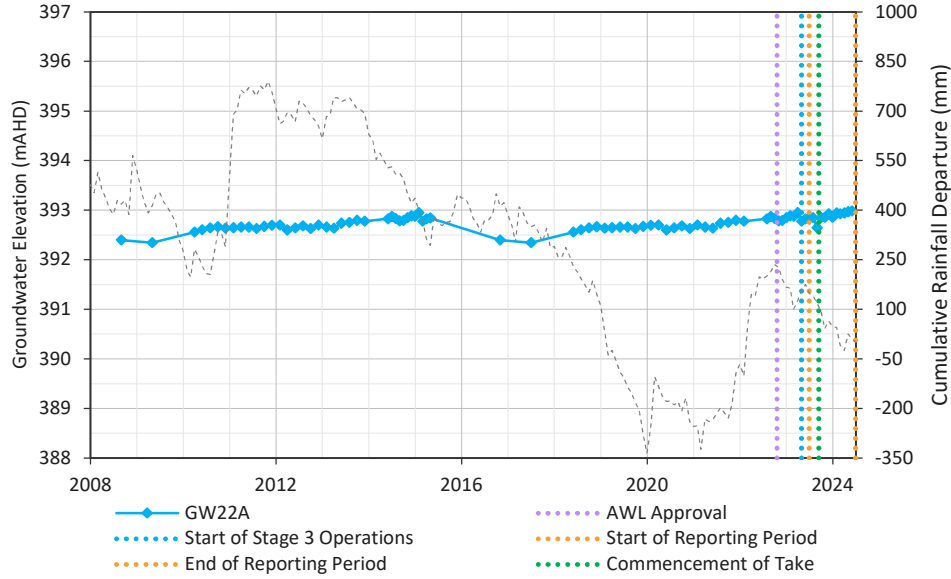
B4 Main Range Volcanics



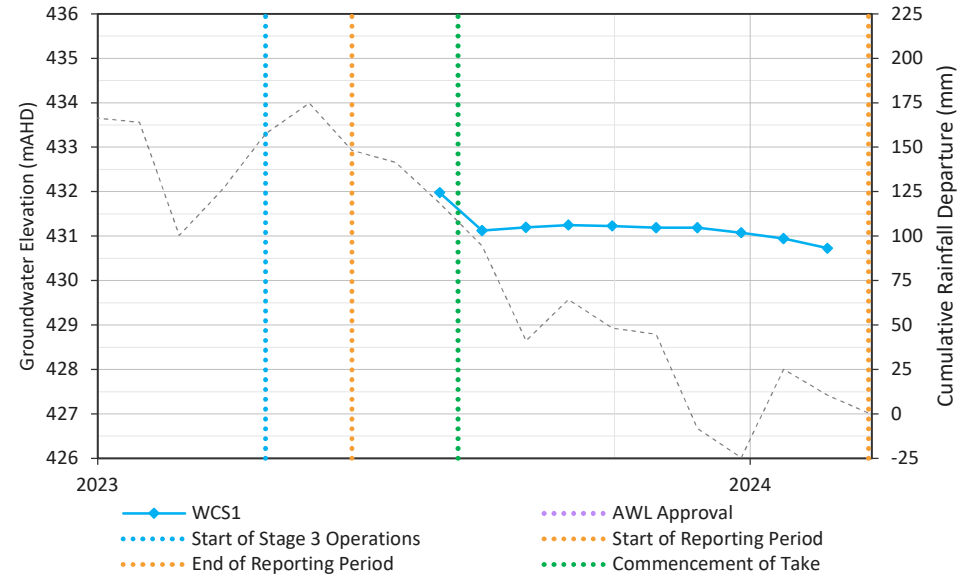
GW13B Waipanna Coal Sequence



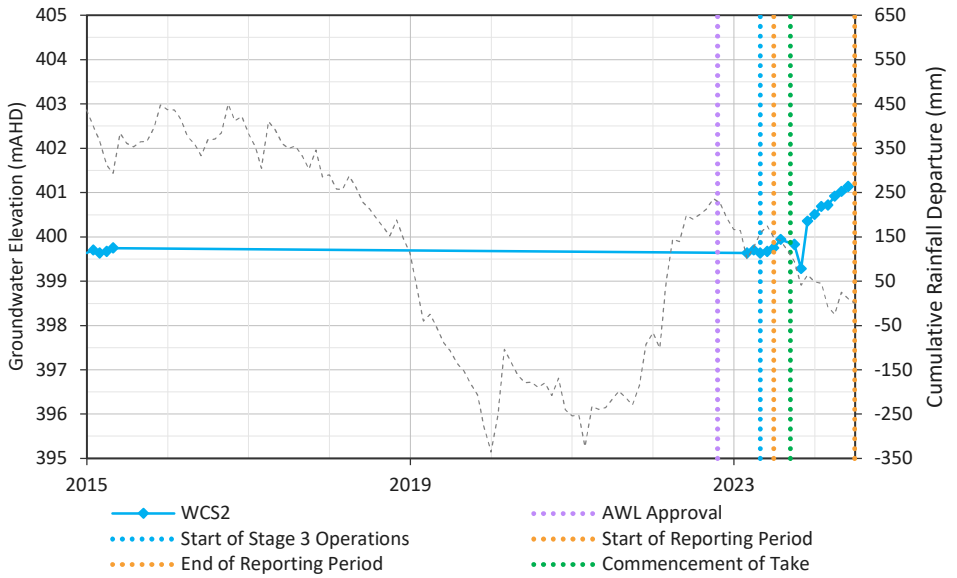
GW22A Waipanna Coal Sequence



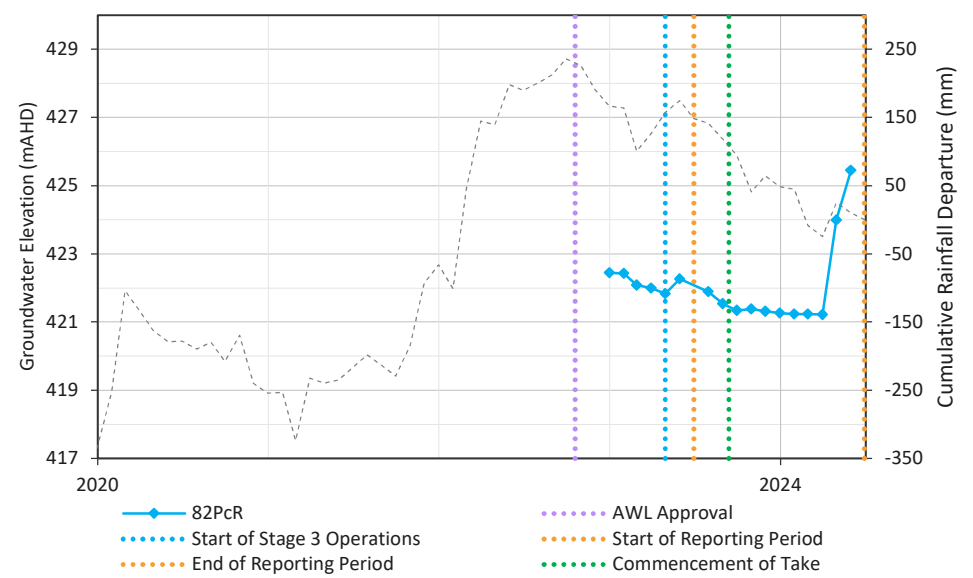
WCS1 Waipanna Coal Sequence



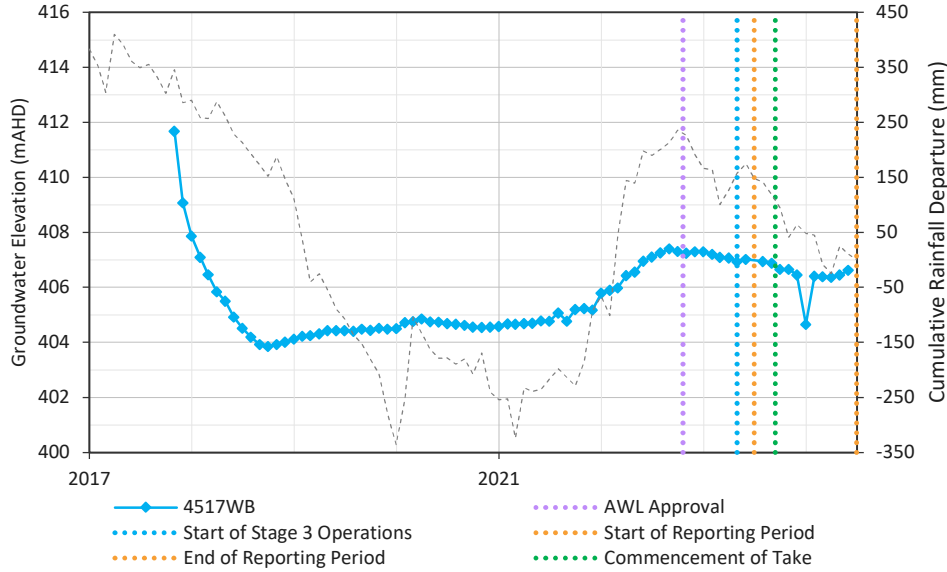
WCS2 Waipanna Coal Sequence



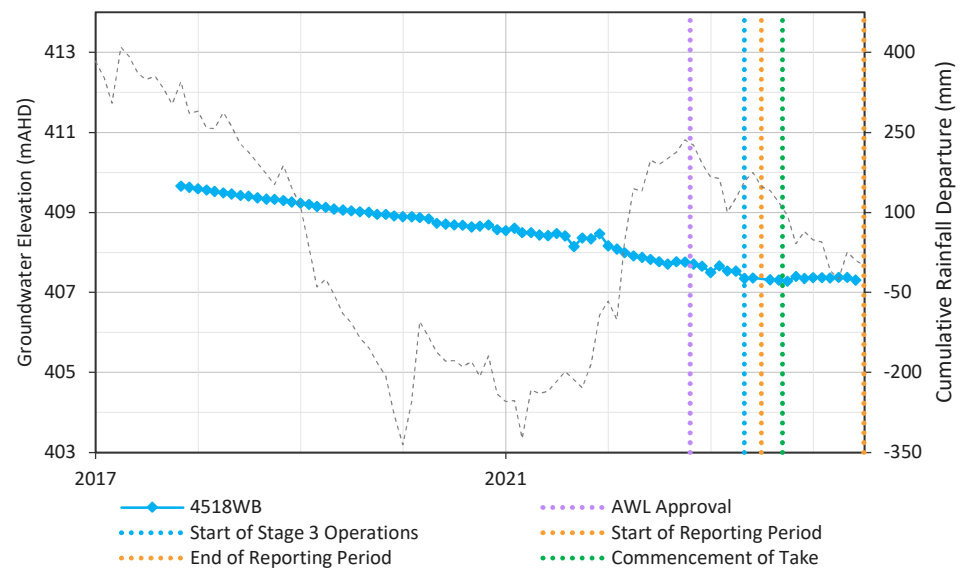
82PcR Acland Coal Sequence



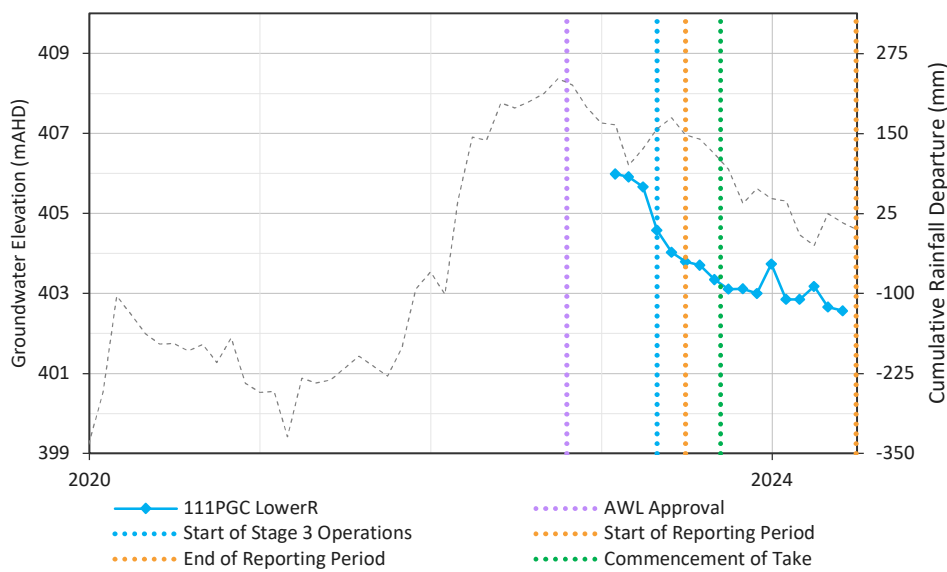
4517WB Acland Coal Sequence



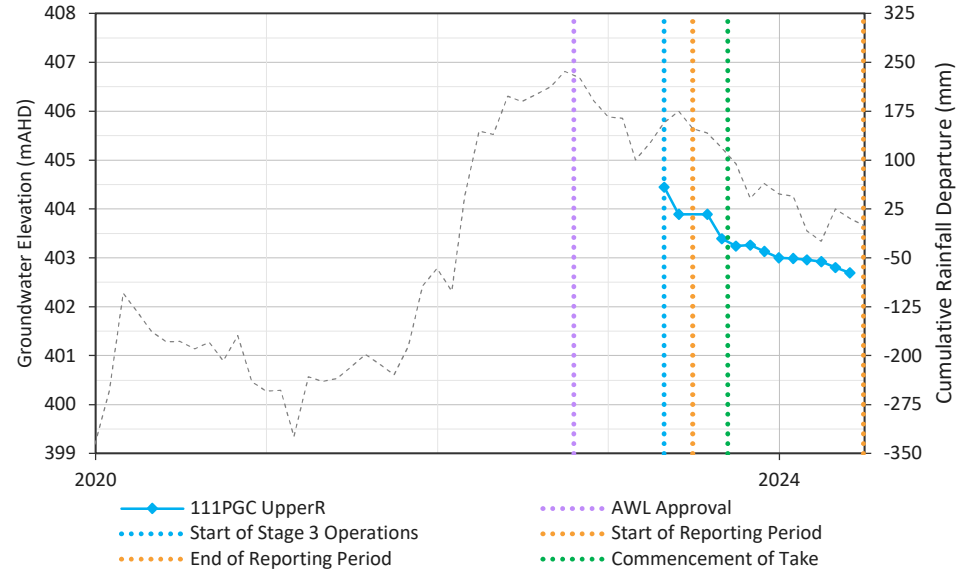
4518WB Acland Coal Sequence



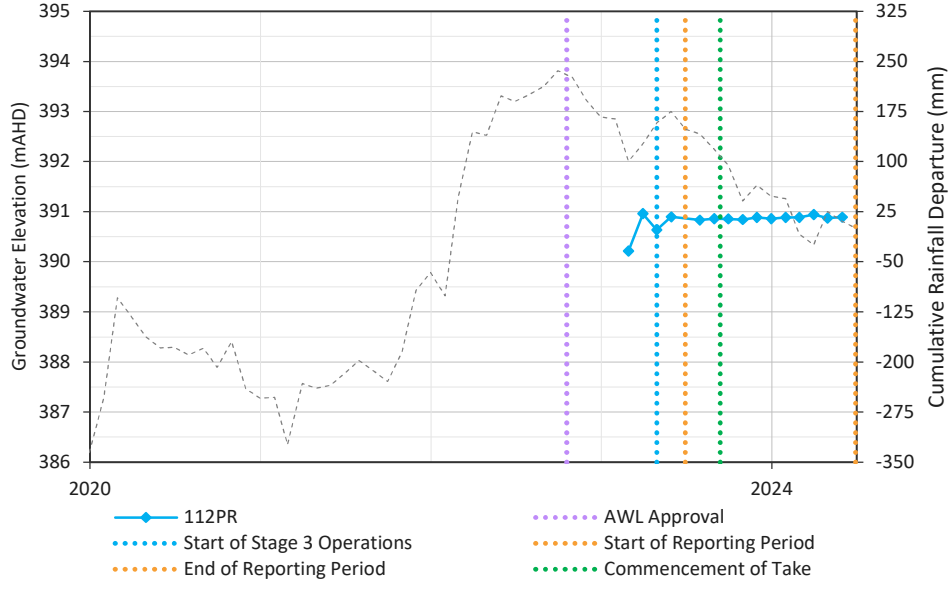
111PGC LowerR Acland Coal Sequence



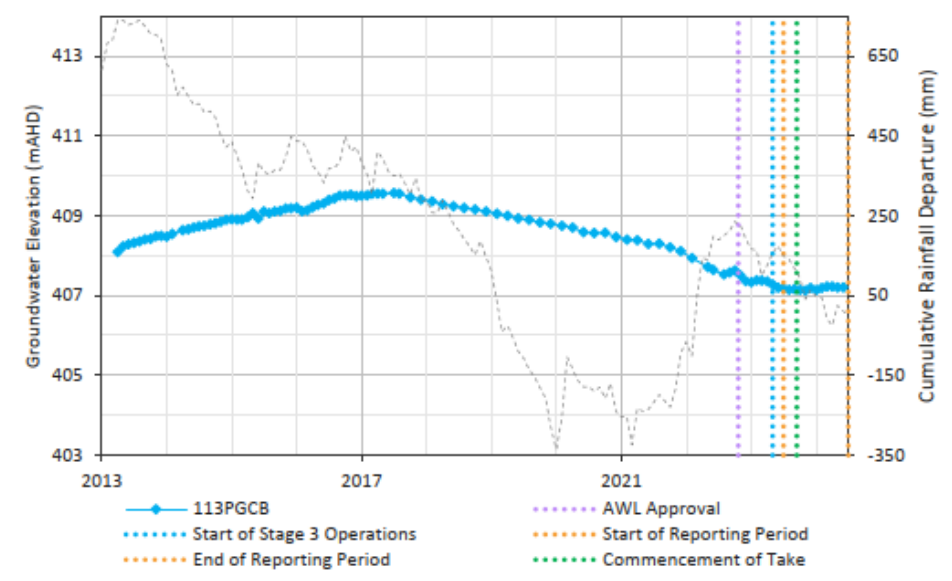
111PGC UpperR Acland Coal Sequence



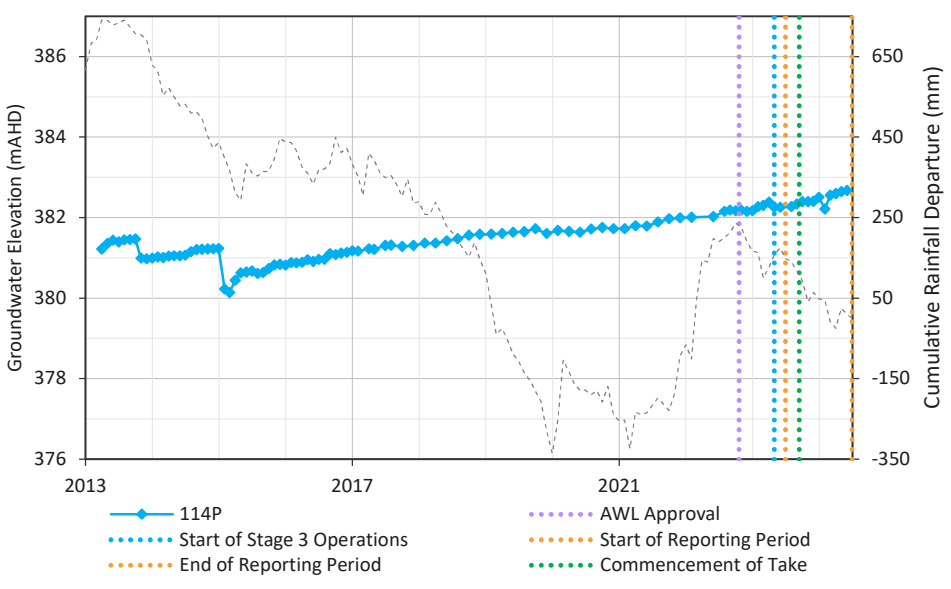
112PR Acland Coal Sequence



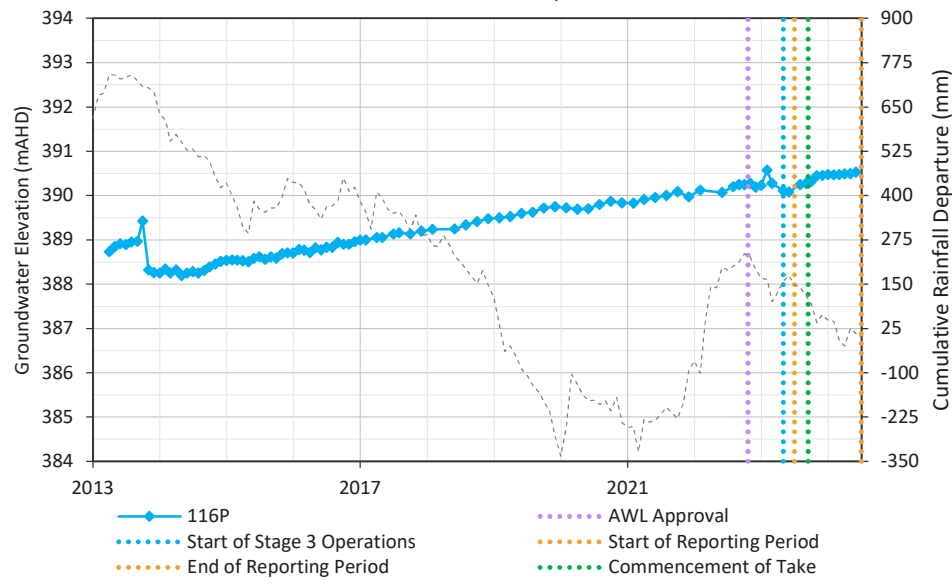
113PGCB Acland Coal Sequence



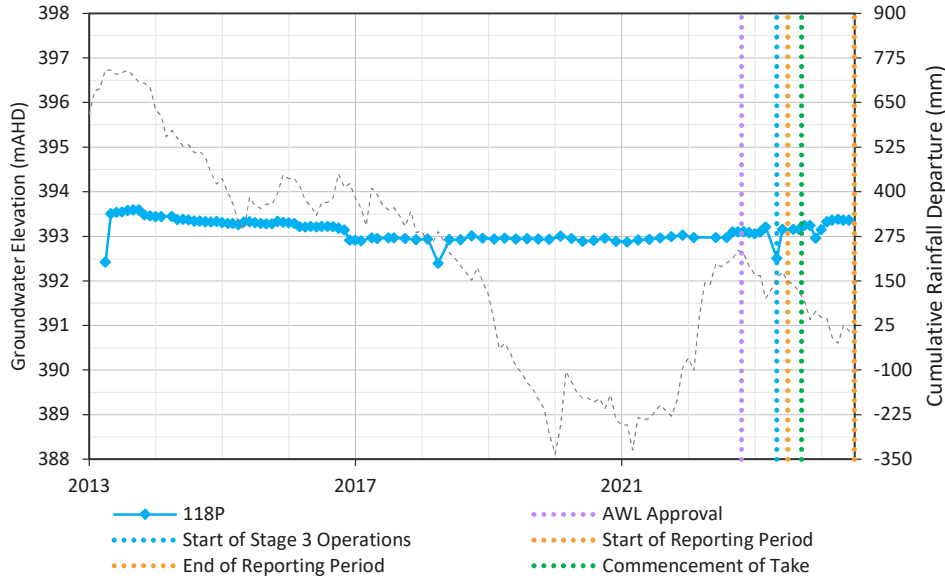
114P Acland Coal Sequence



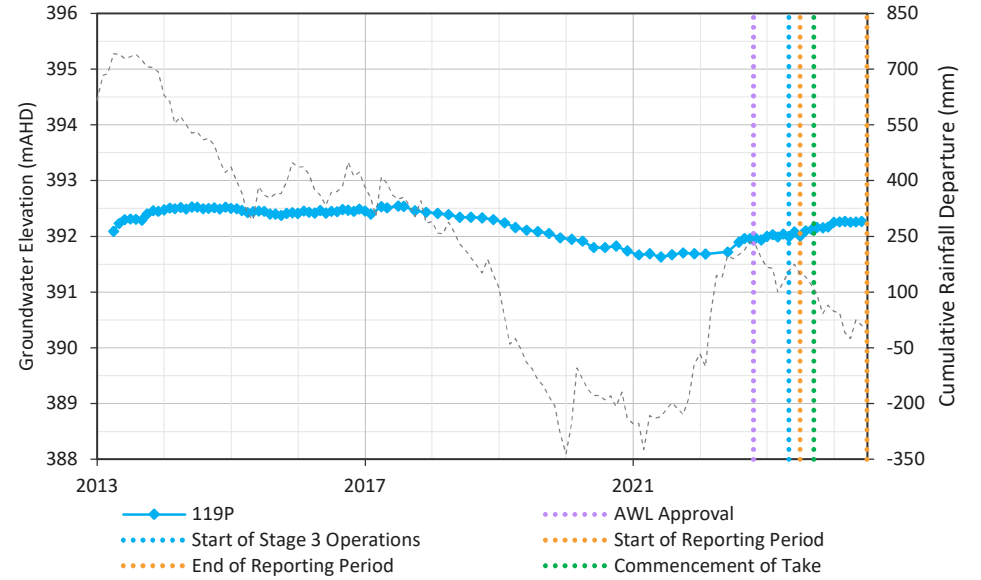
116P Acland Coal Sequence



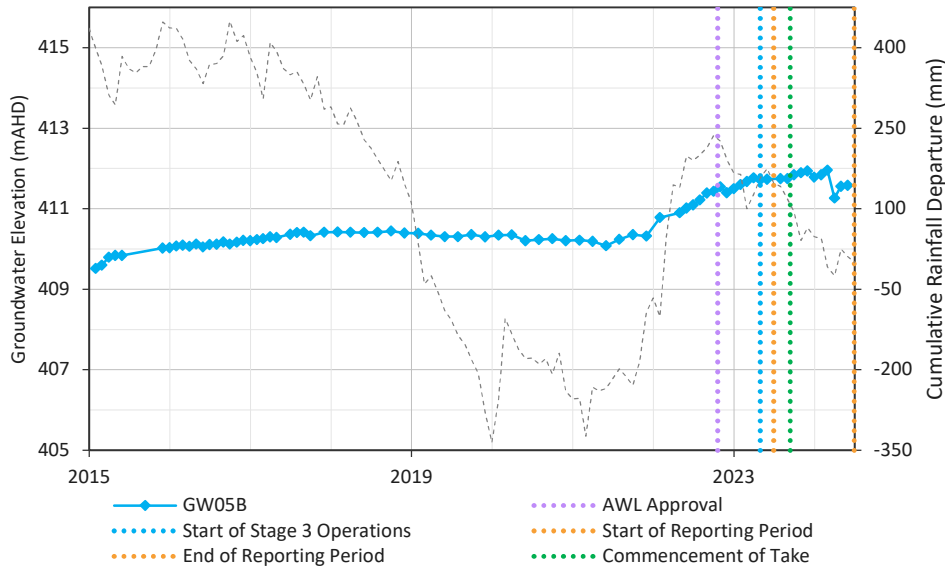
118P Acland Coal Sequence



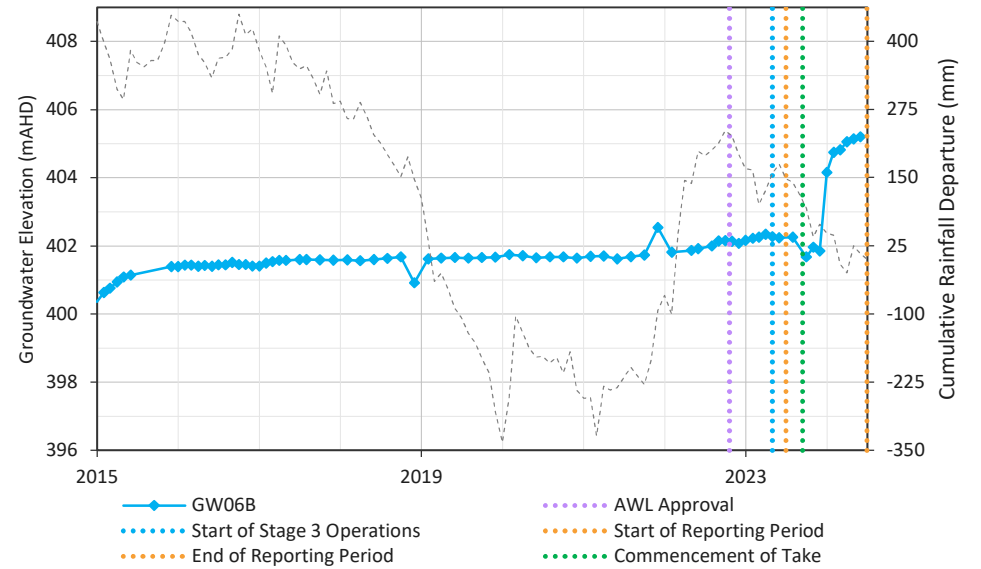
119P Acland Coal Sequence



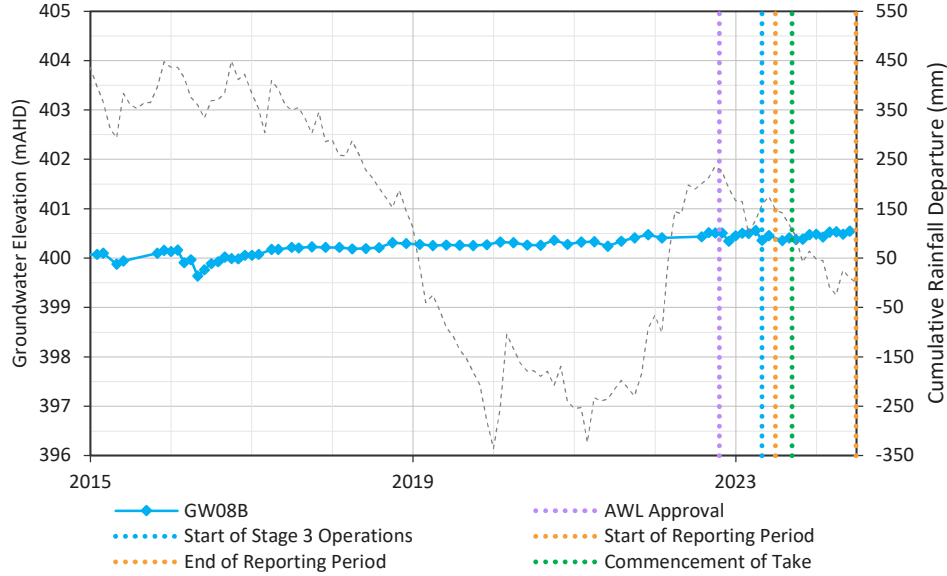
GW05B Acland Coal Sequence



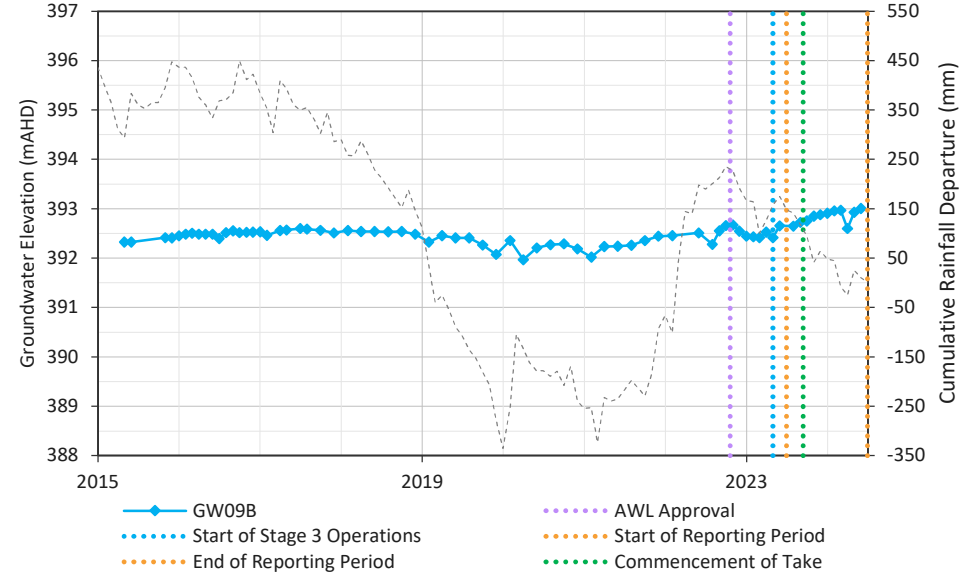
GW06B Acland Coal Sequence



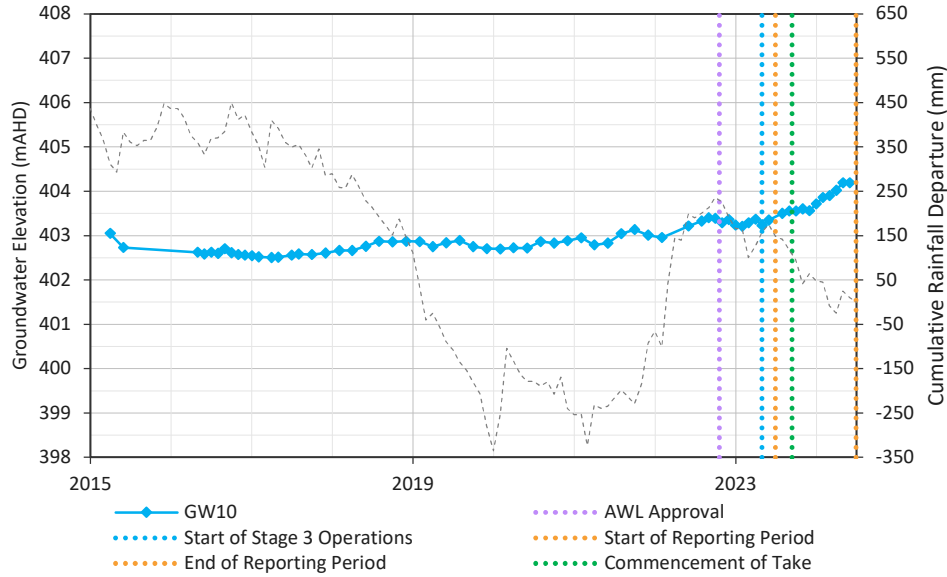
GW08B Acland Coal Sequence



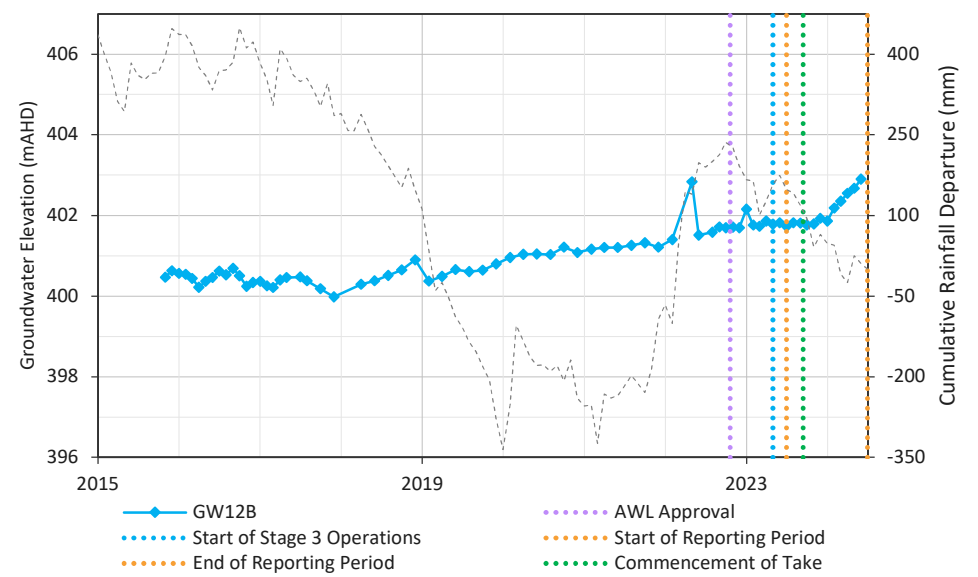
GW09B Acland Coal Sequence



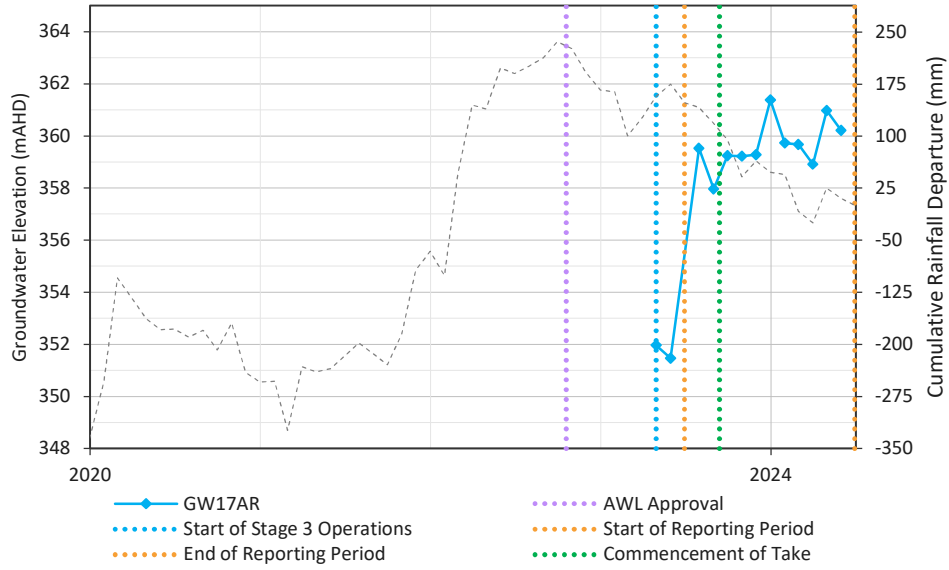
GW10 Acland Coal Sequence



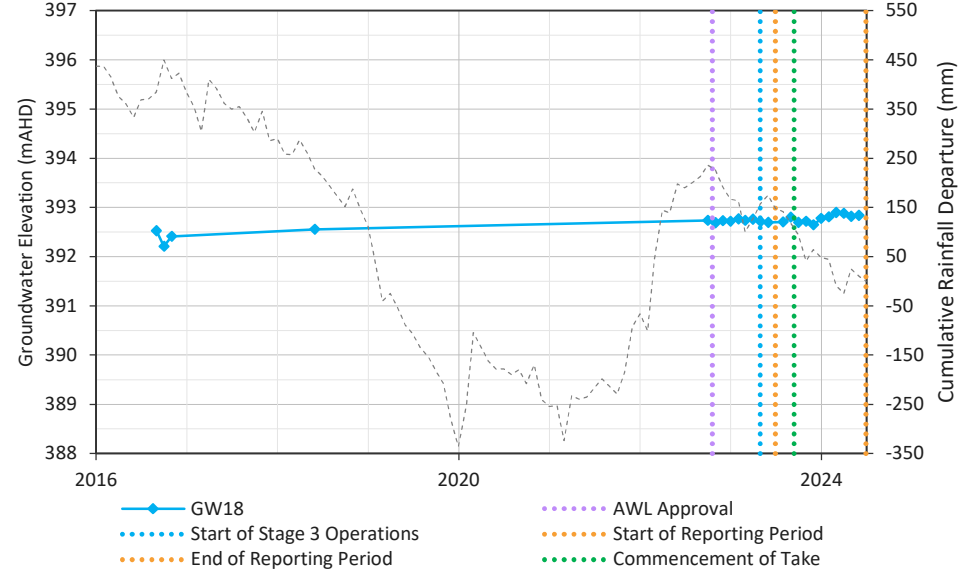
GW12B Acland Coal Sequence



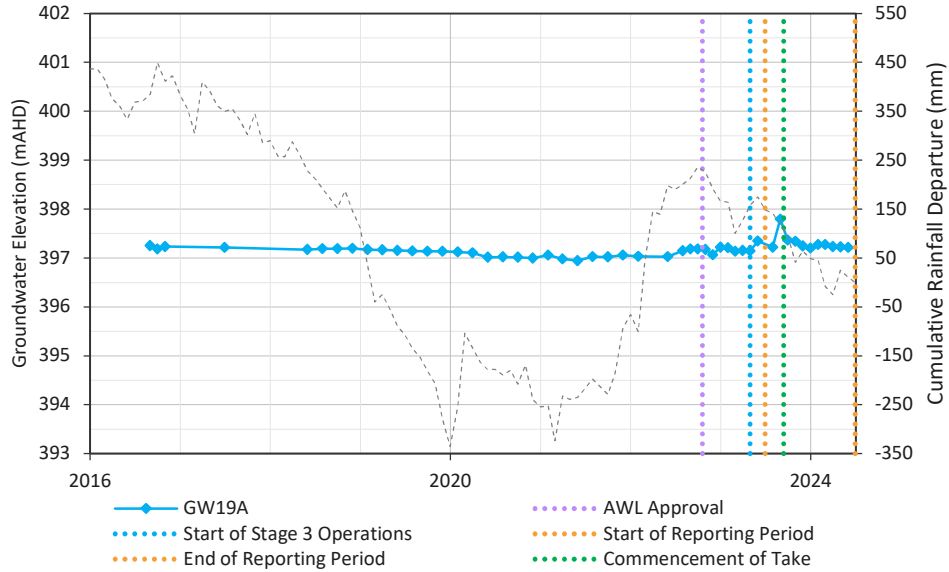
GW17AR Acland Coal Sequence



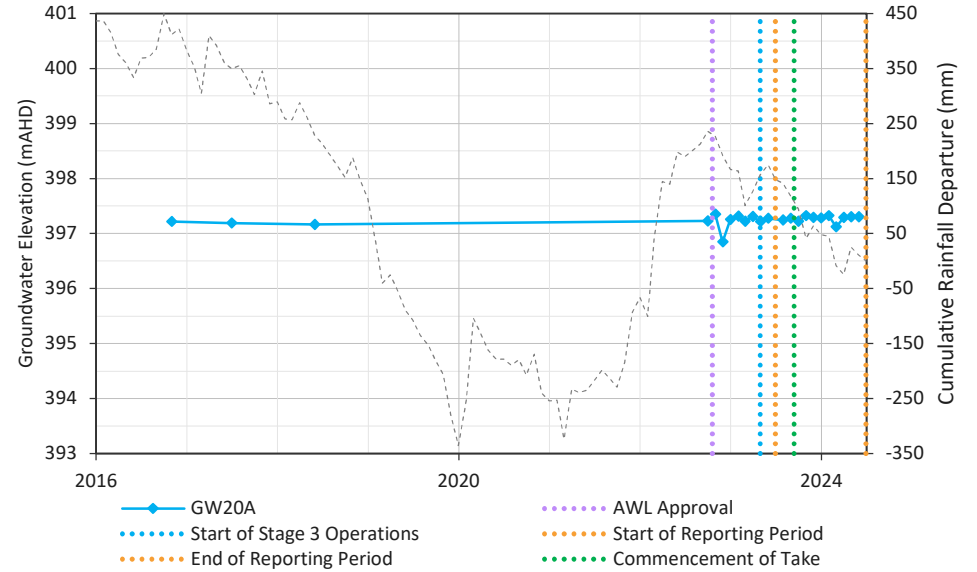
GW18 Acland Coal Sequence



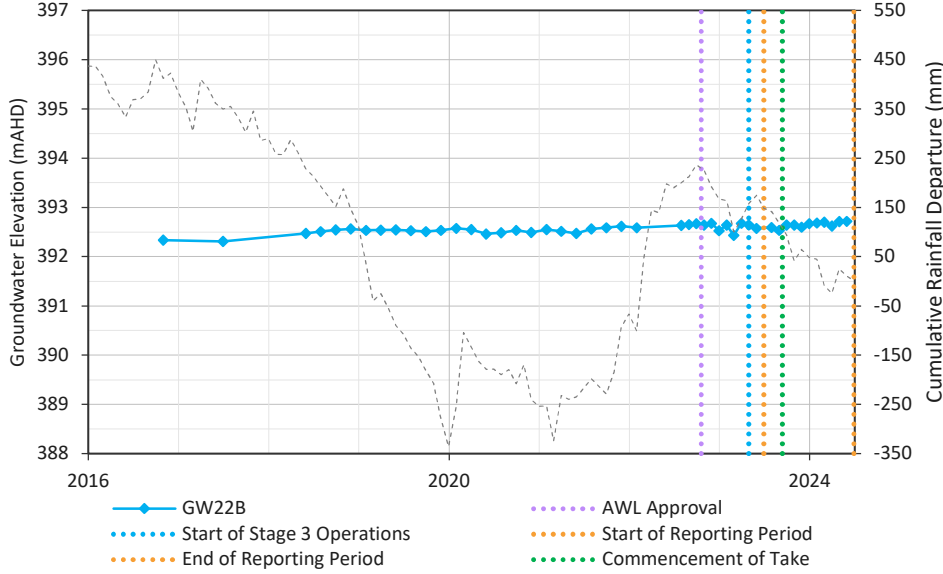
GW19A Acland Coal Sequence



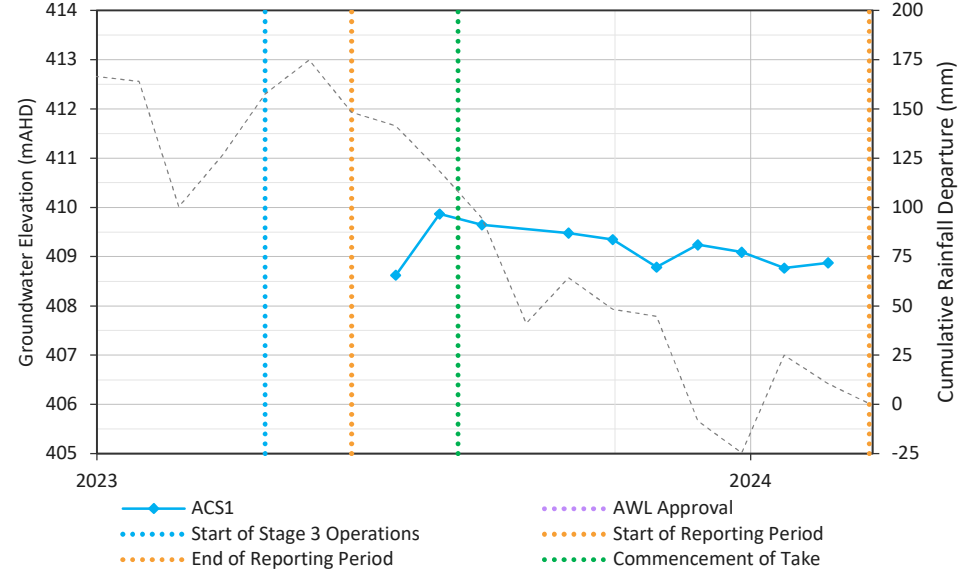
GW20A Acland Coal Sequence



GW22B Acland Coal Sequence



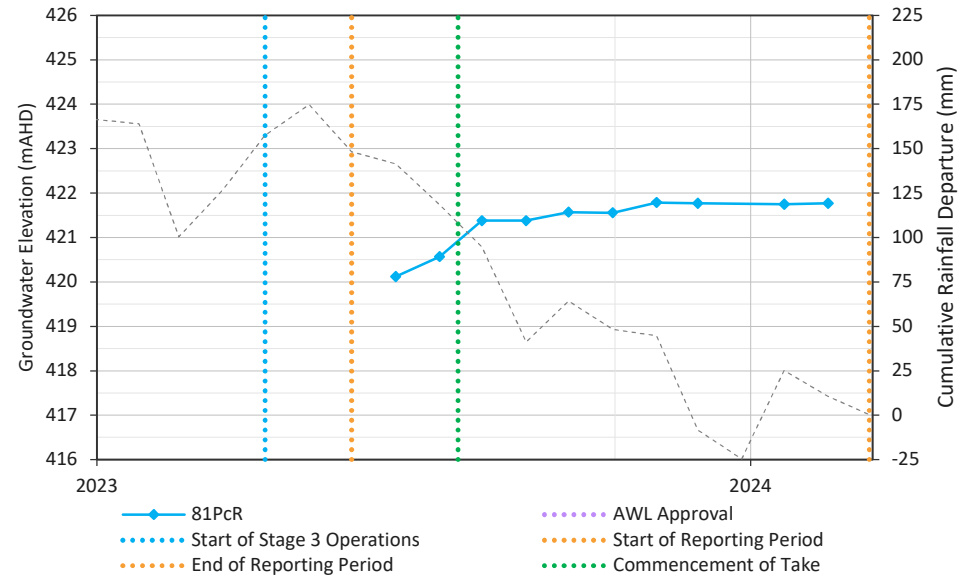
ACS1 Acland Coal Sequence



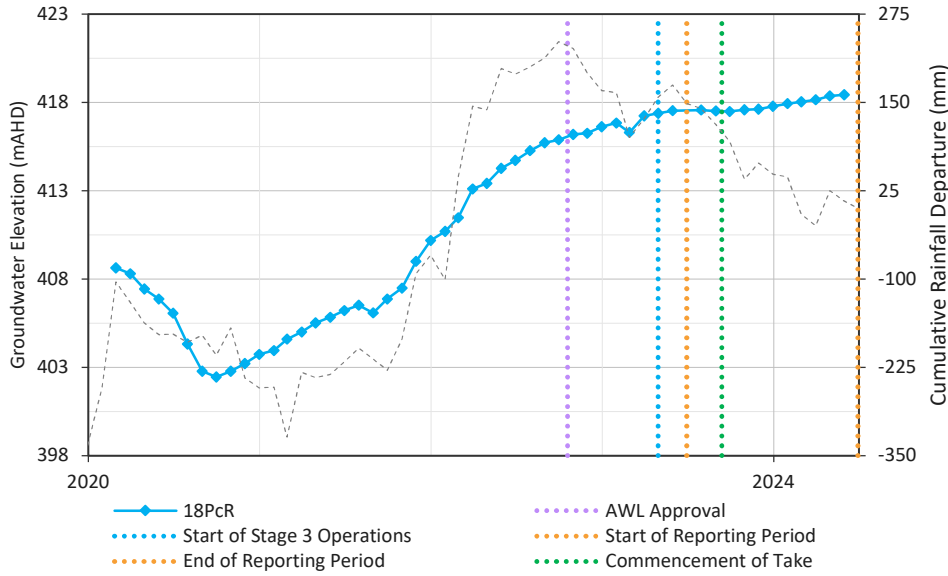
ACS2 Acland Coal Sequence



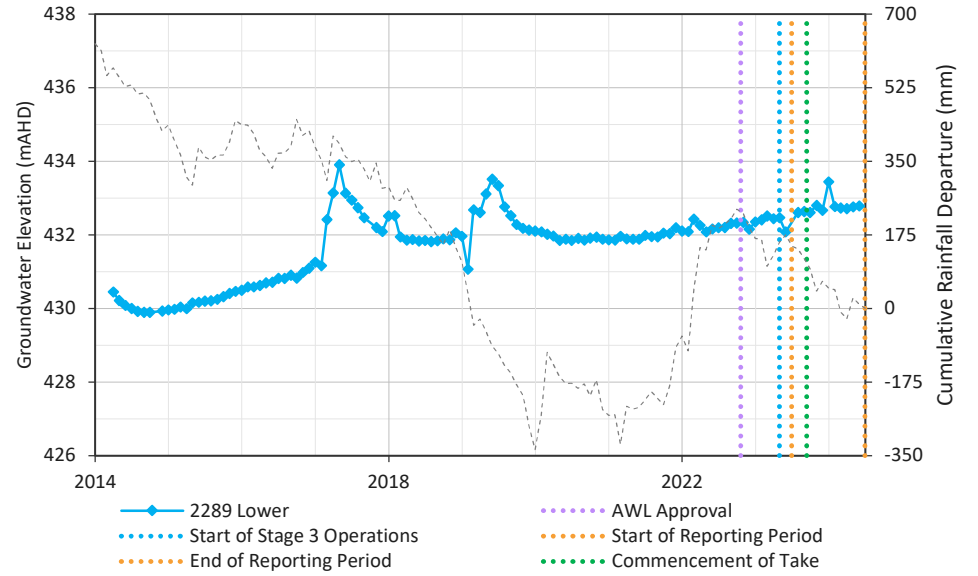
81PcR Acland Coal Sequence



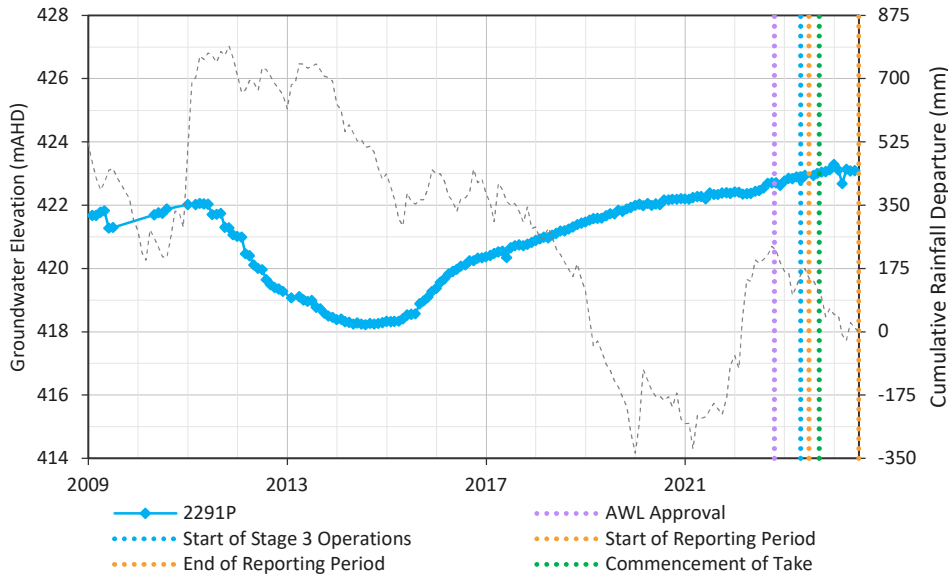
18PcR Balgowan Coal Sequence



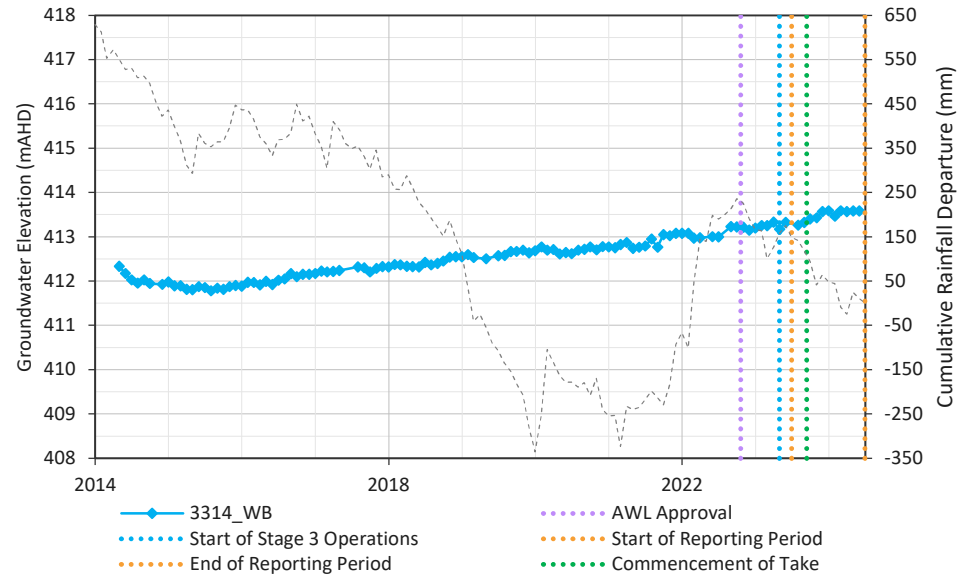
2289 Lower Balgowan Coal Sequence



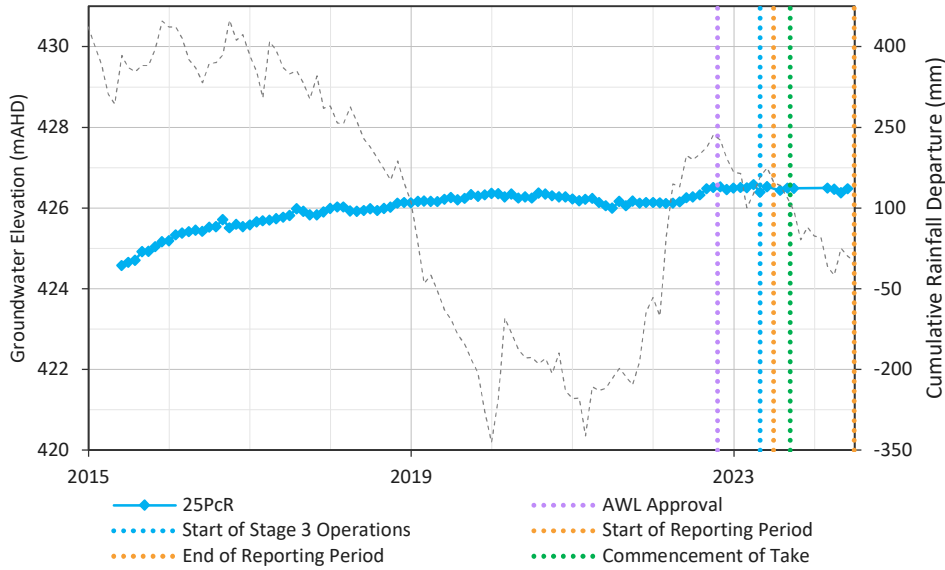
2291P Balgowan Coal Sequence



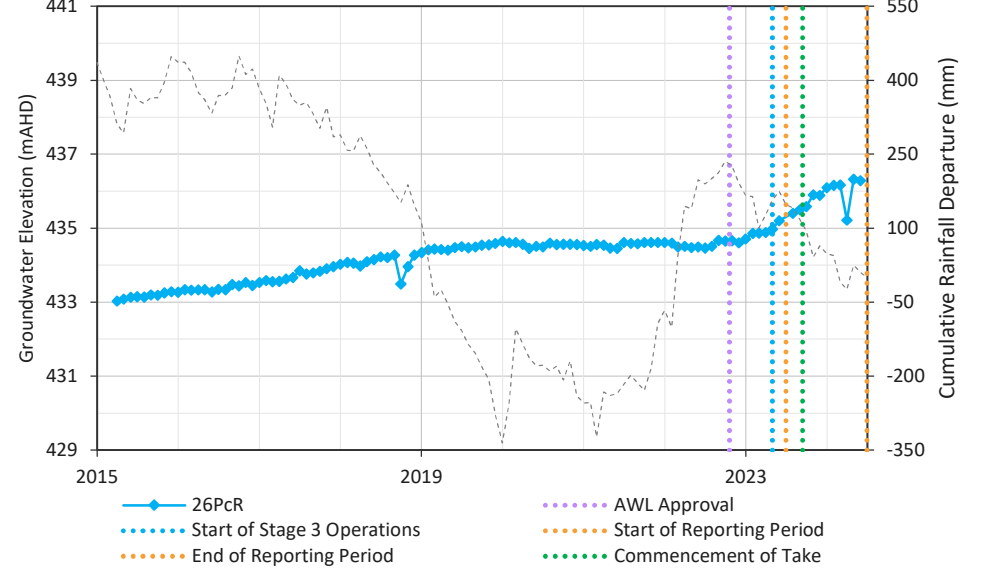
3314_WB Balgowan Coal Sequence



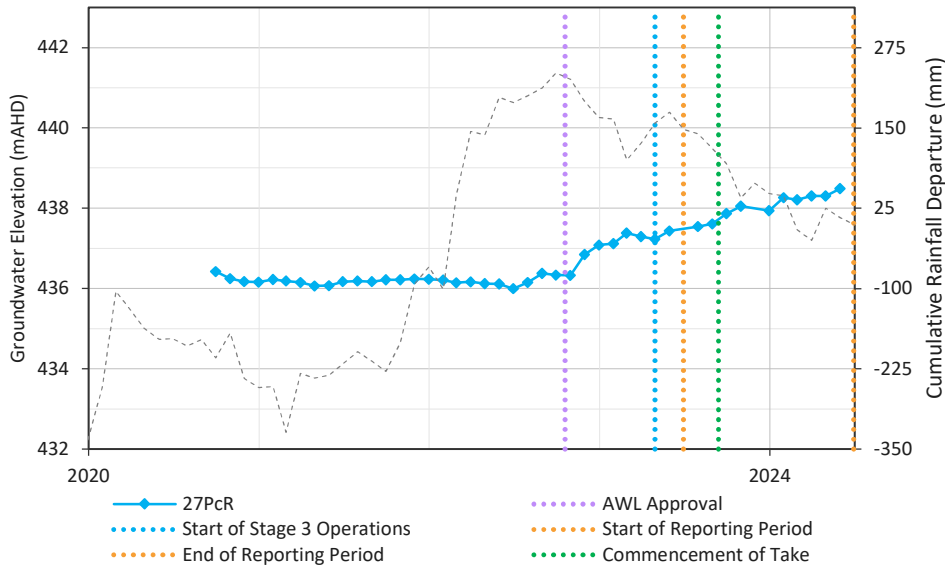
25PcR Balgowan Coal Sequence



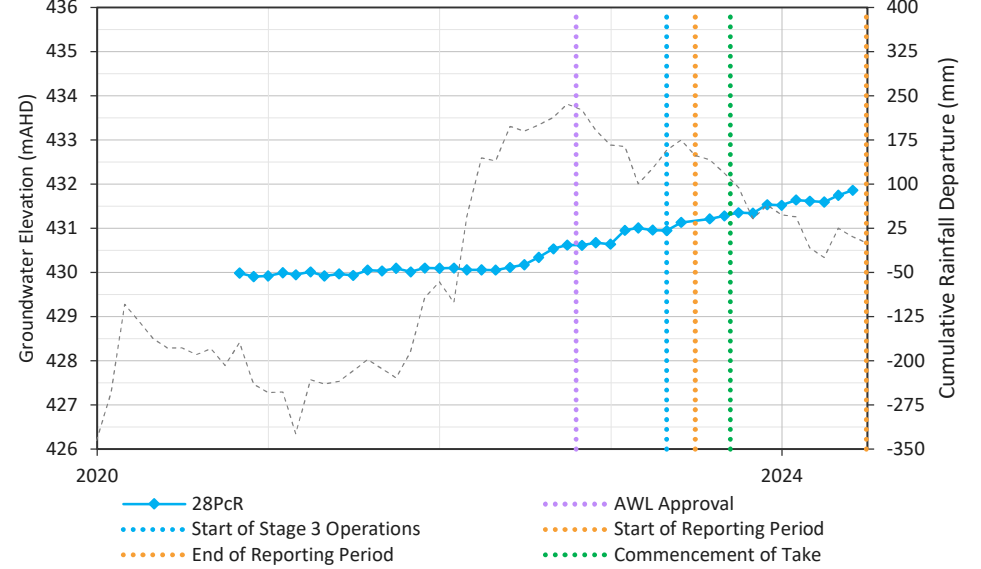
26PcR Balgowan Coal Sequence



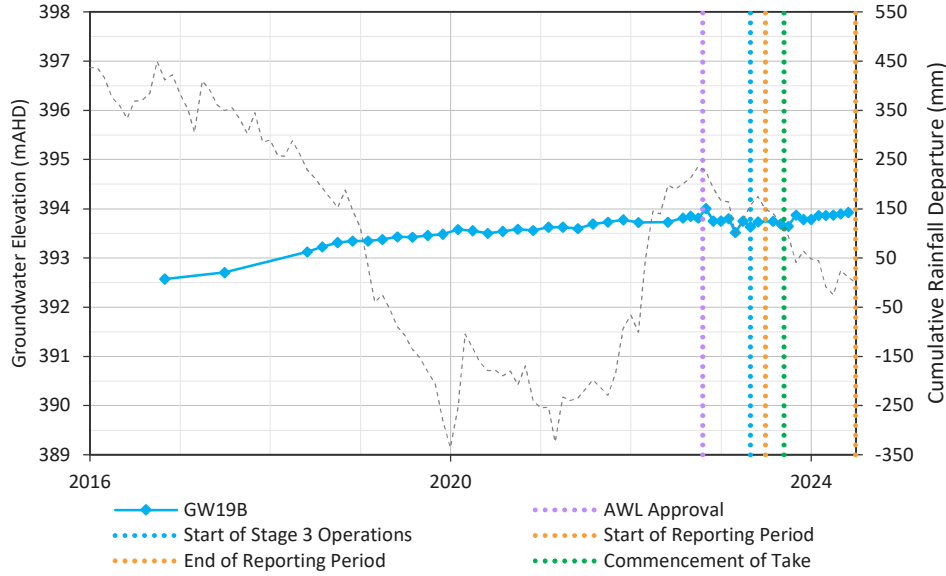
27PcR Balgowan Coal Sequence



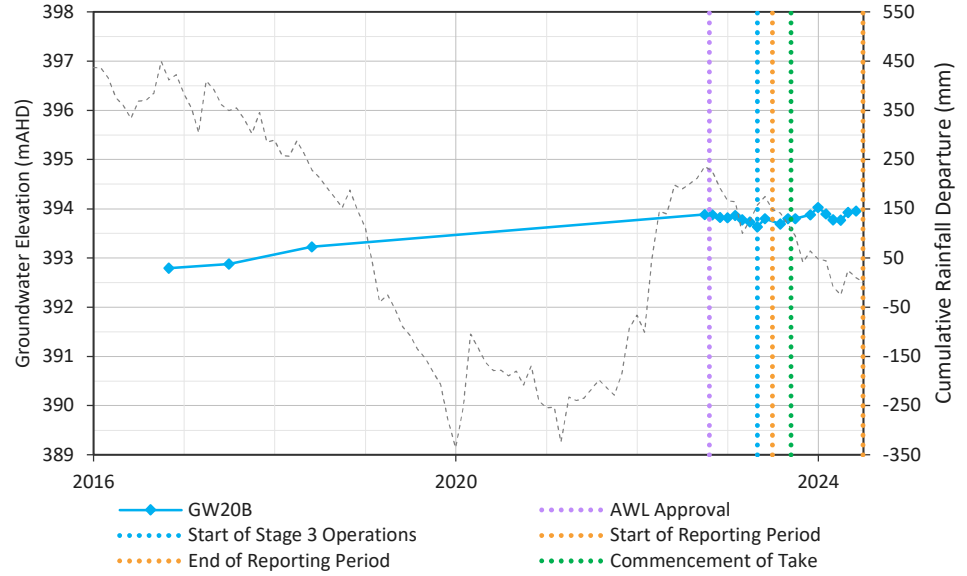
28PcR Balgowan Coal Sequence



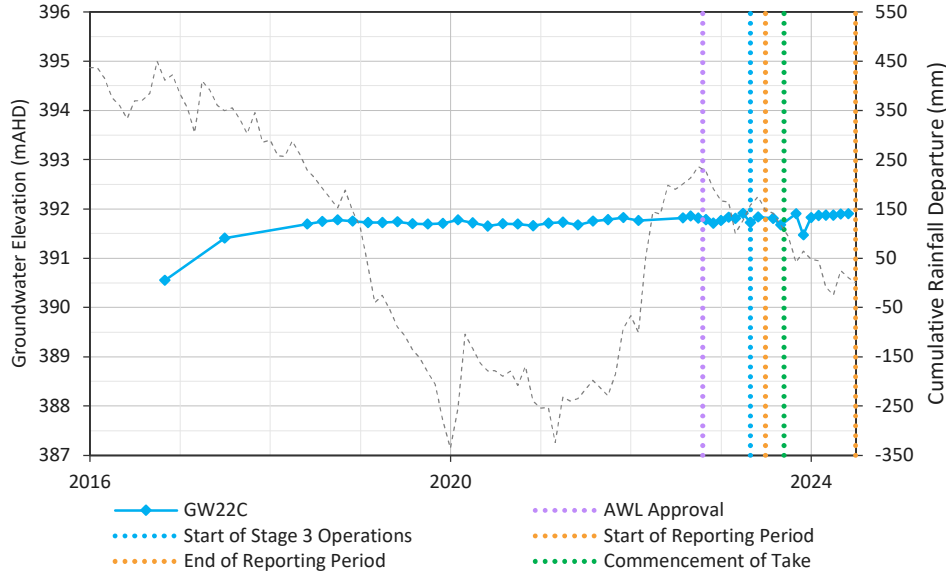
GW19B Balgowan Coal Sequence



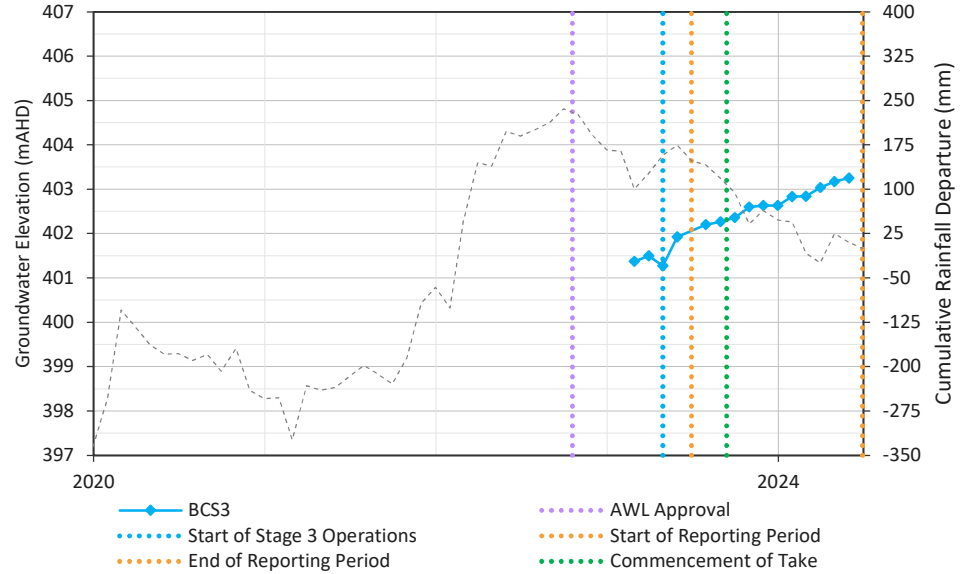
GW20B Balgowan Coal Sequence



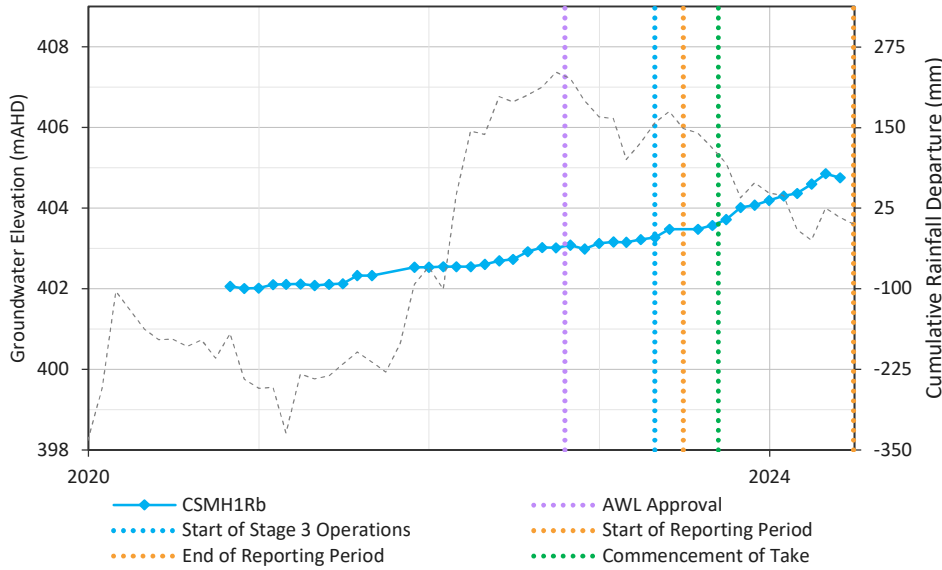
GW22C Balgowan Coal Sequence



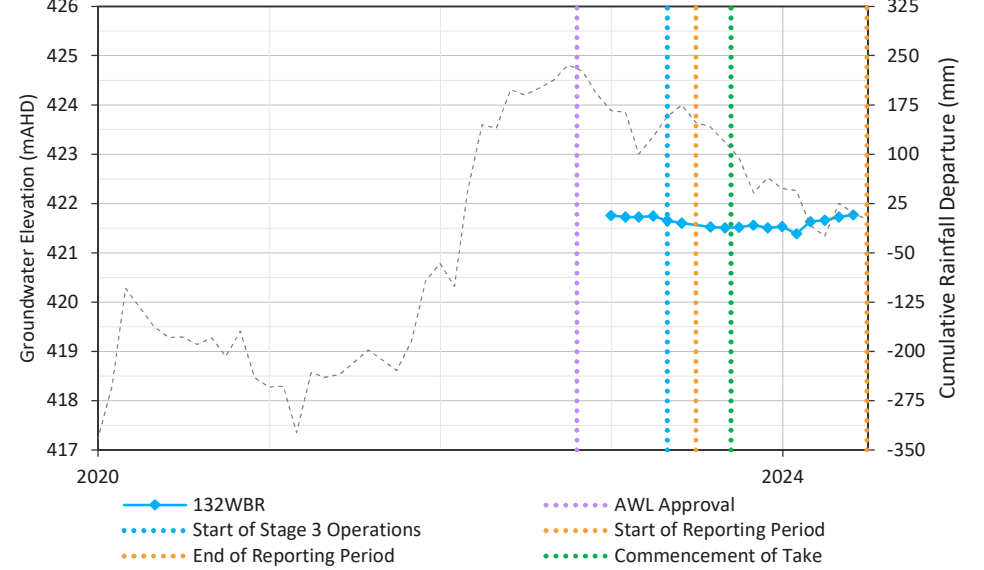
BCS3 Balgowan Coal Sequence



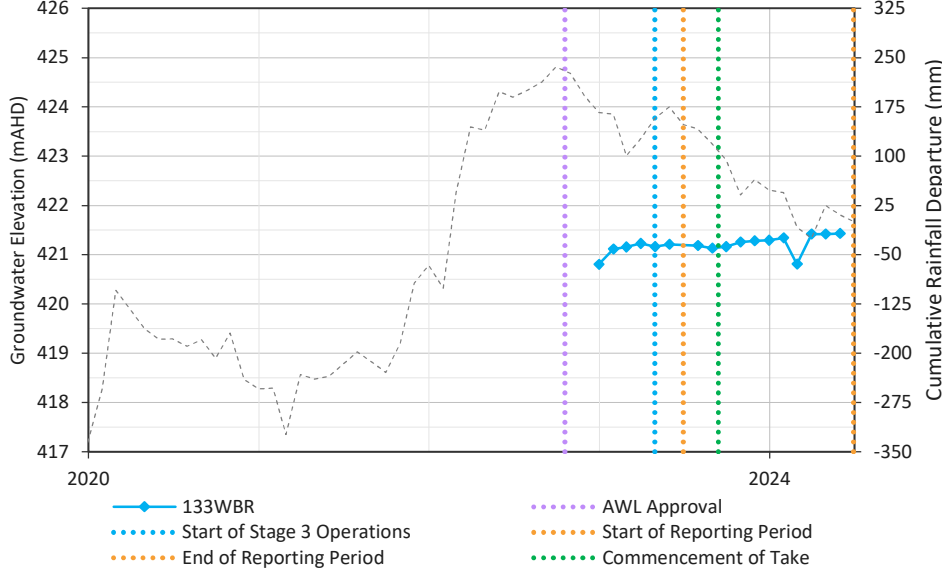
CSMH1Rb Balgowan Coal Sequence



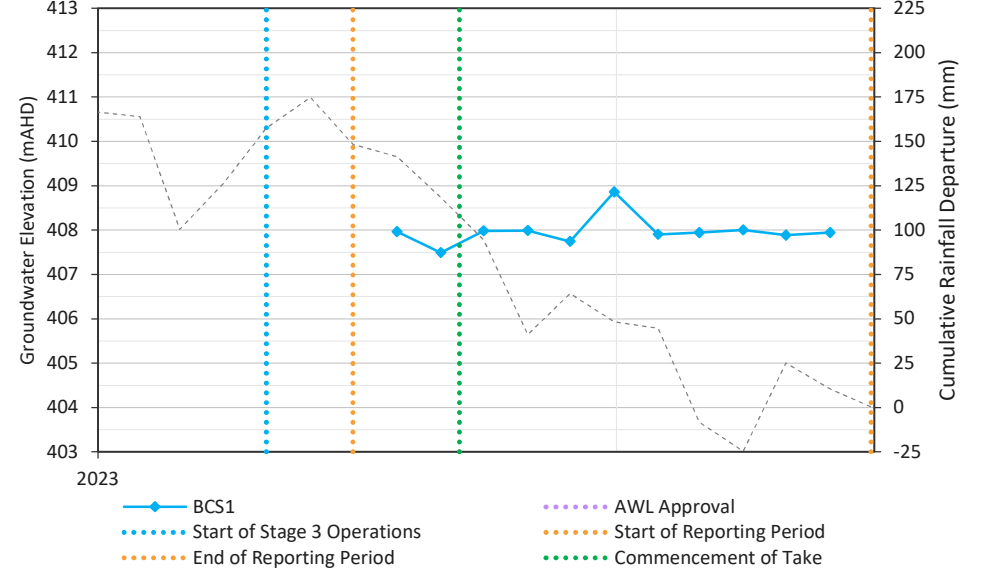
132WBR Balgowan Coal Sequence



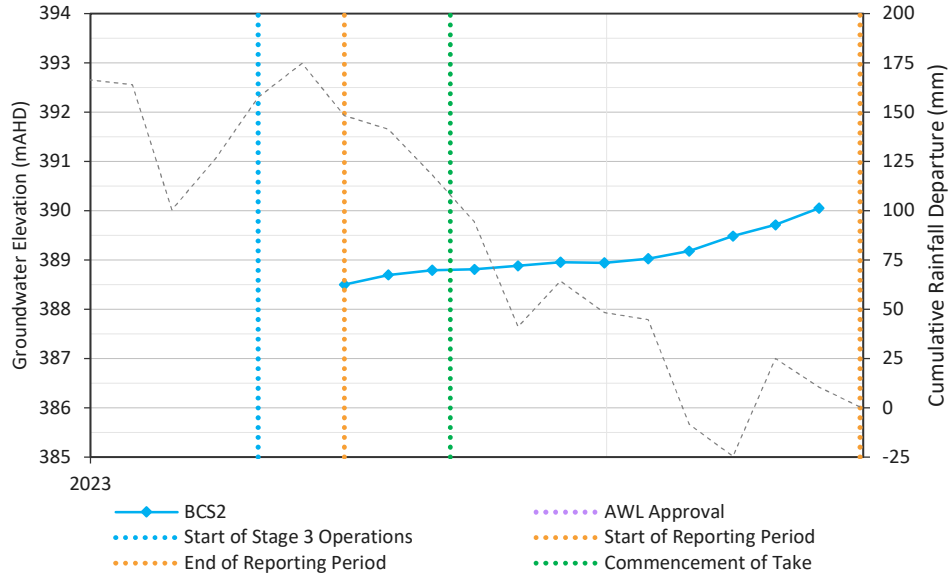
133WBR Balgowan Coal Sequence



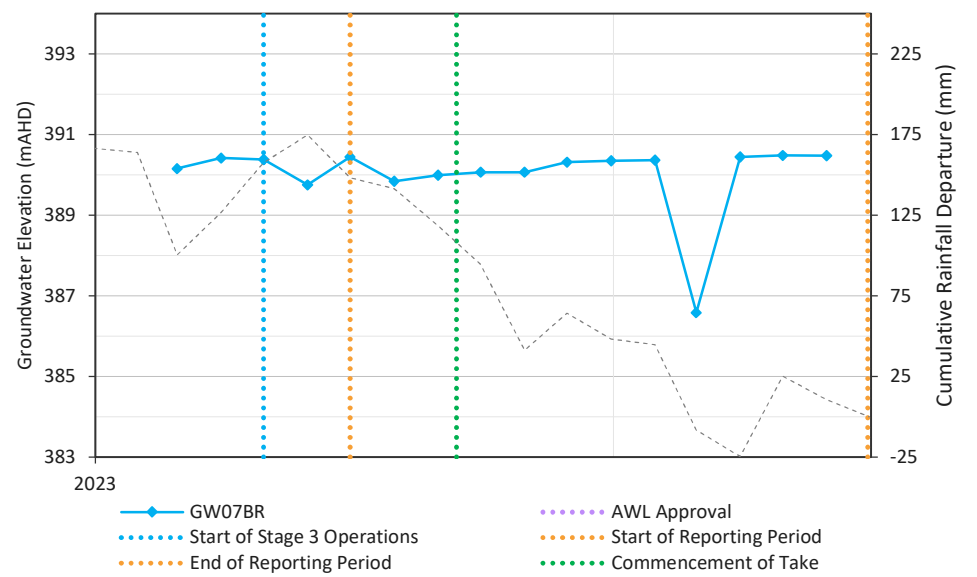
BCS1 Balgowan Coal Sequence



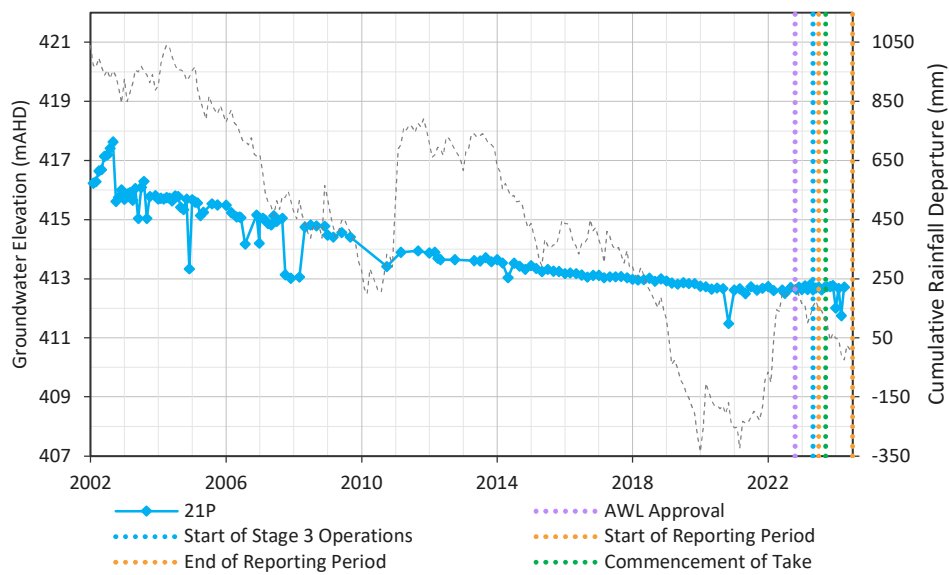
BCS2 Balgowan Coal Sequence



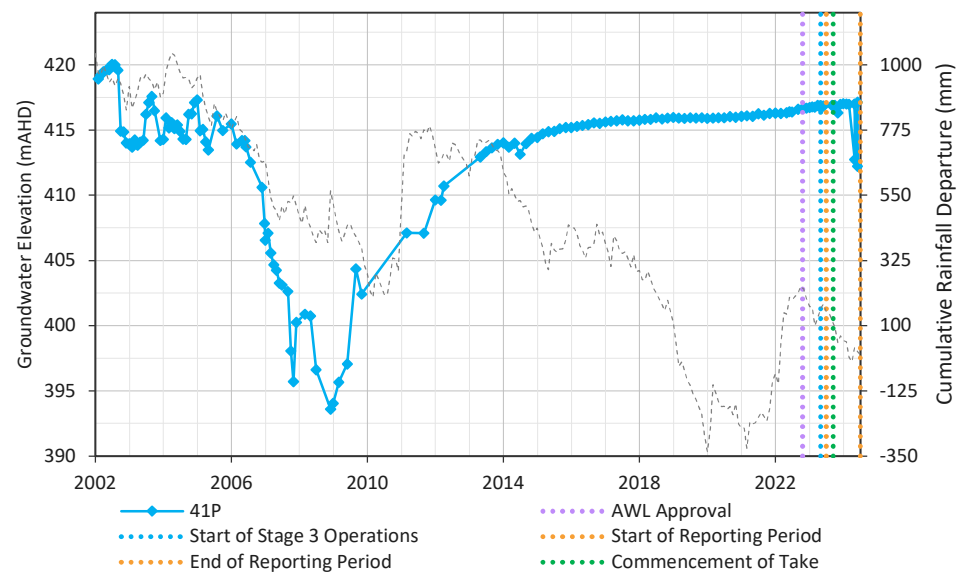
GW07BR Balgowan Coal Sequence



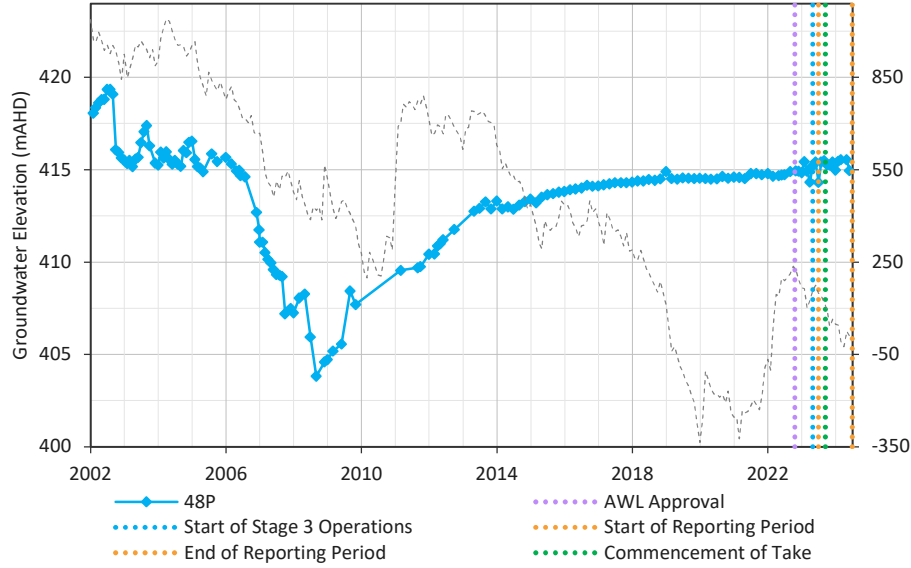
21P Marburg Sandstone



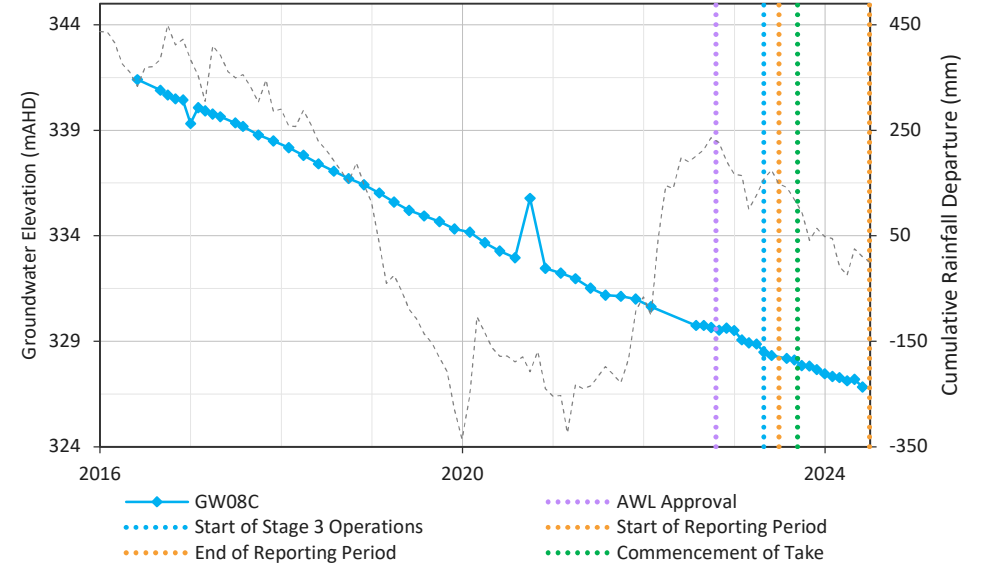
41P Marburg Sandstone



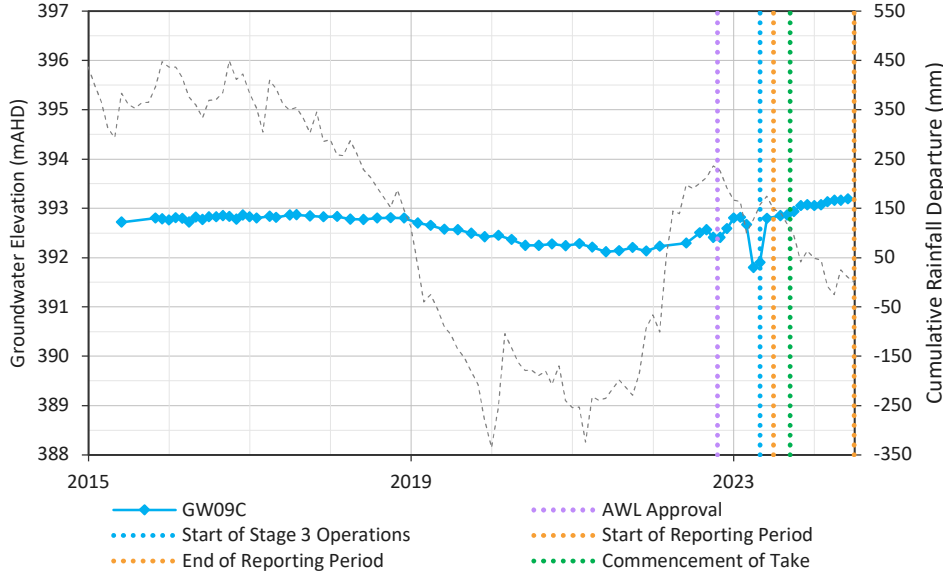
48P Marburg Sandstone



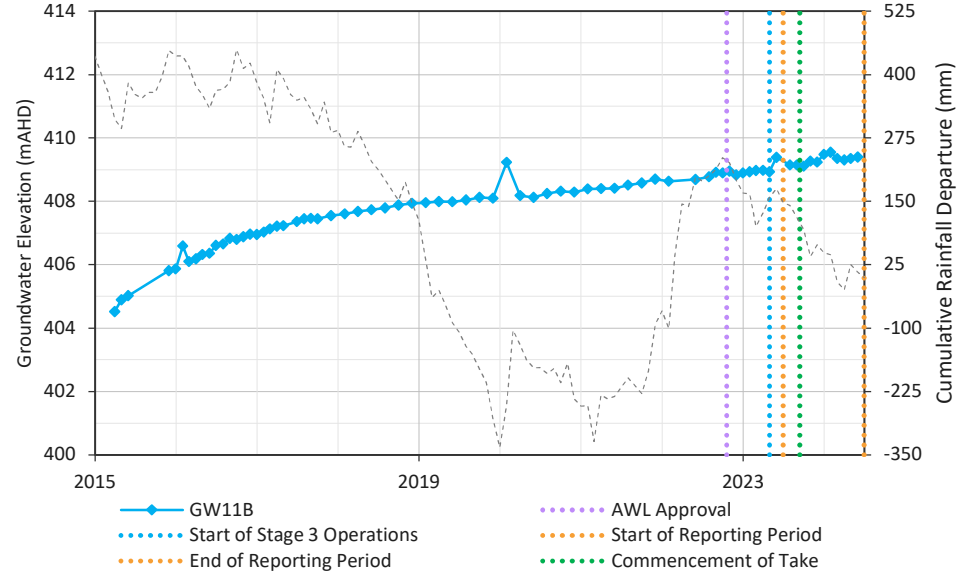
GW08C Marburg Sandstone



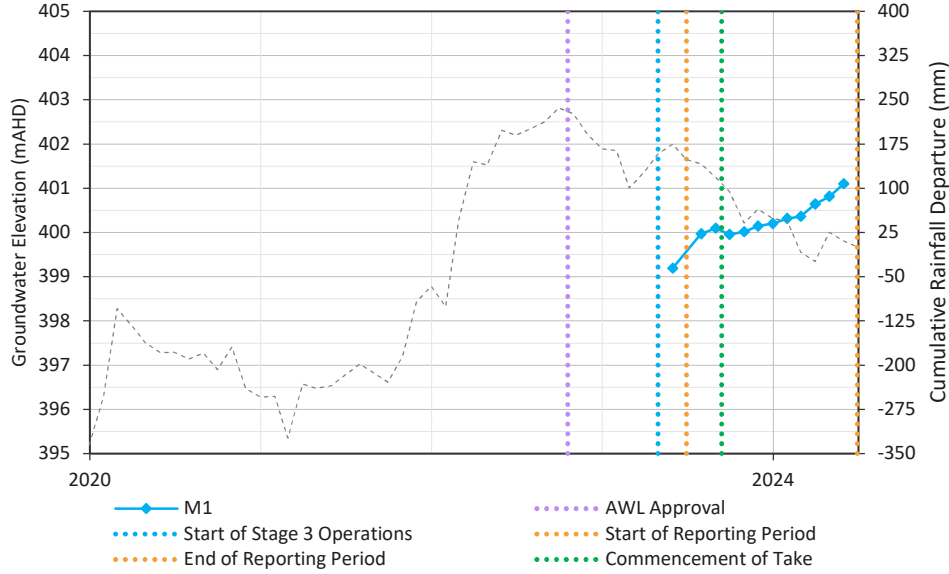
GW09C Marburg Sandstone



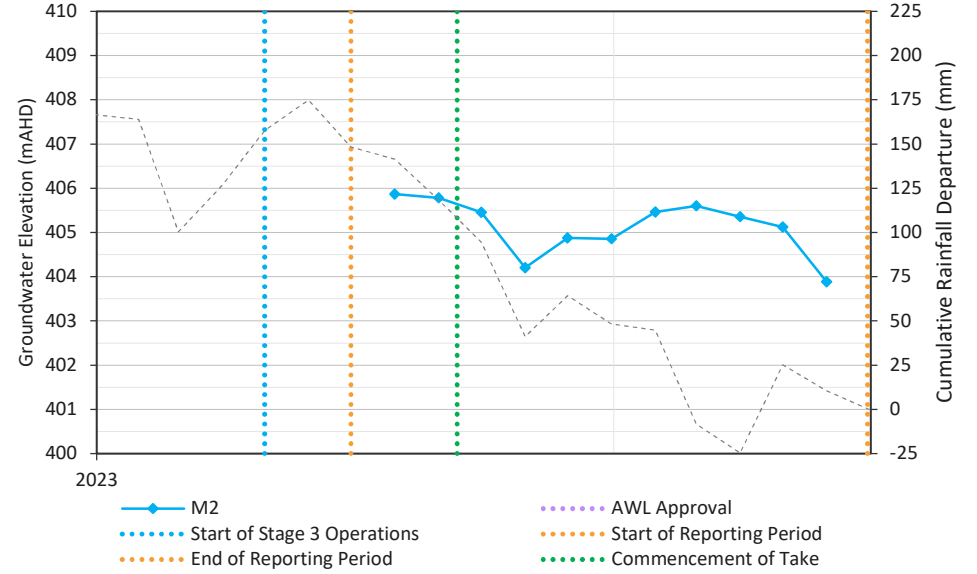
GW11B Marburg Sandstone



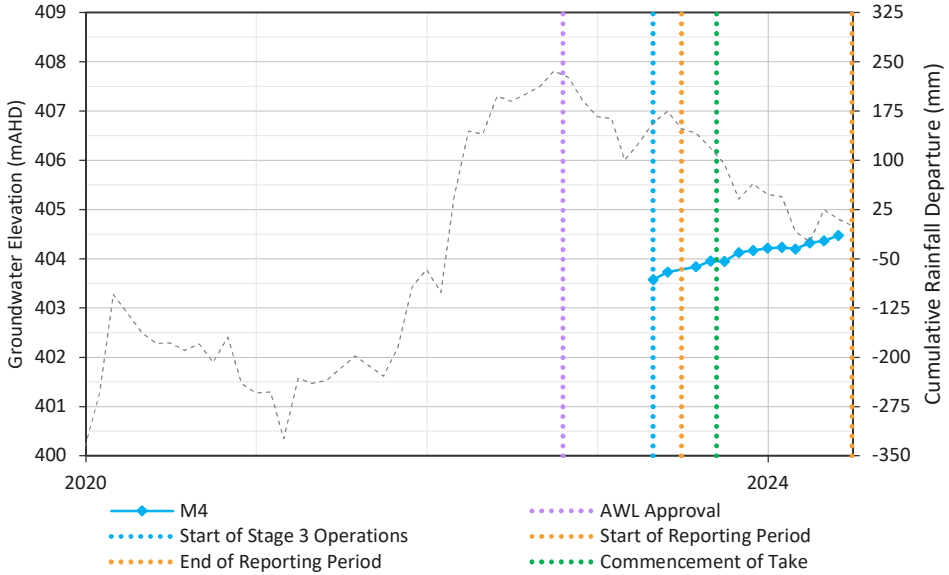
M1 Marburg Sandstone



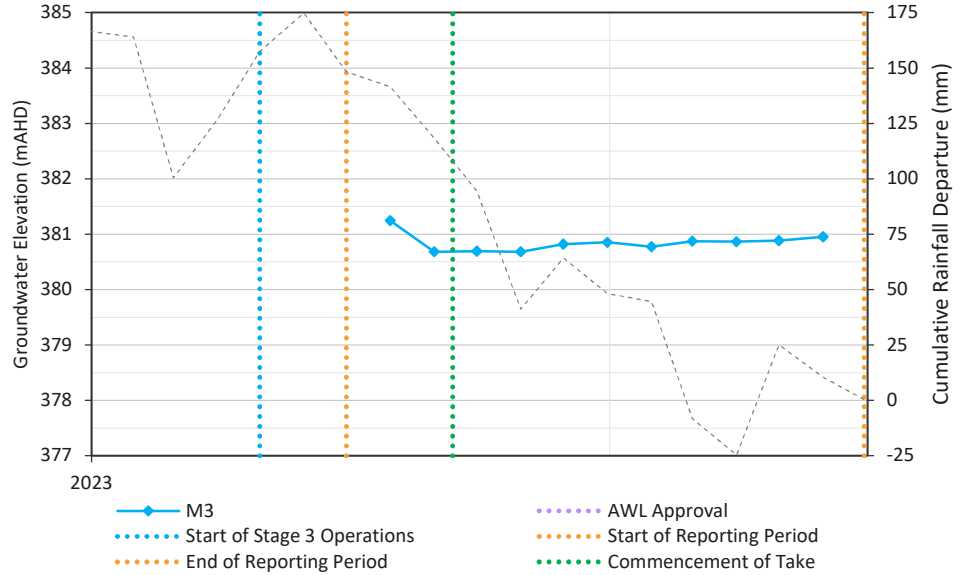
M2 Marburg Sandstone



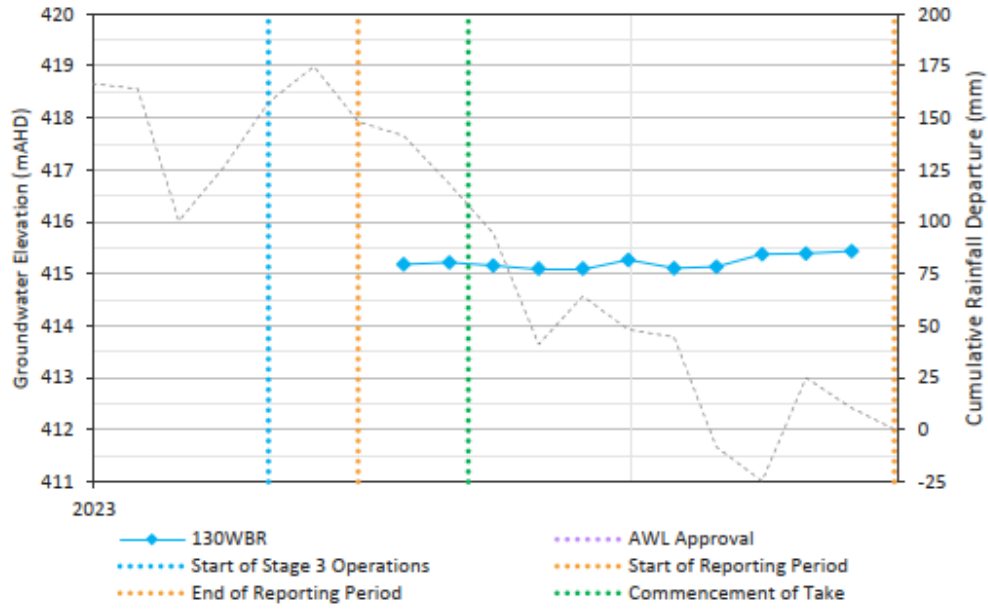
M4 Marburg Sandstone



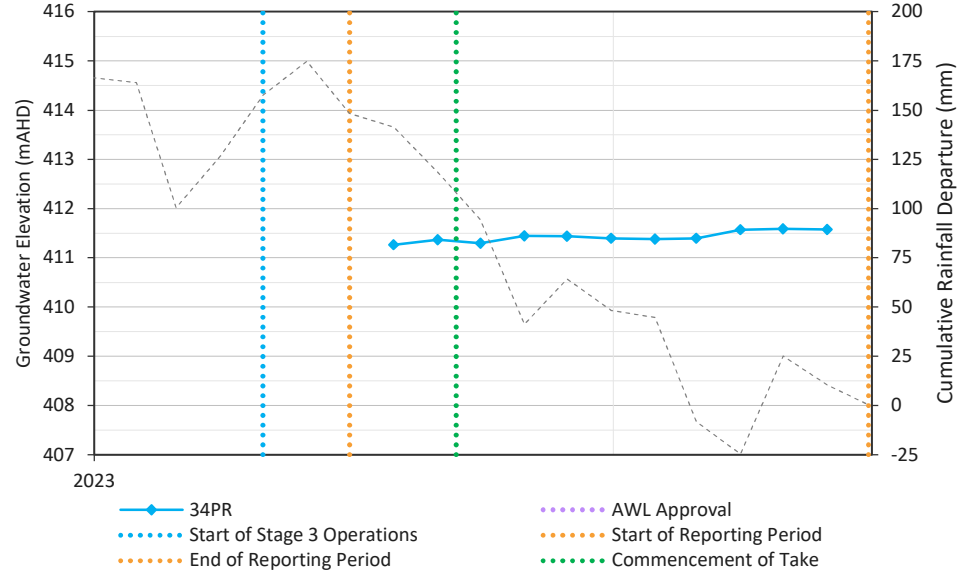
M3 Marburg Sandstone



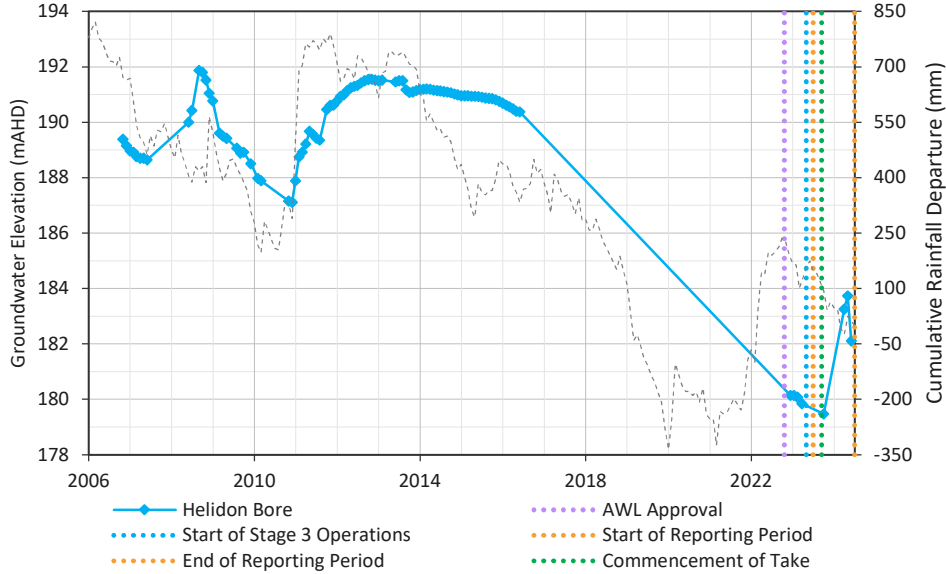
130WBR Marburg Sandstone



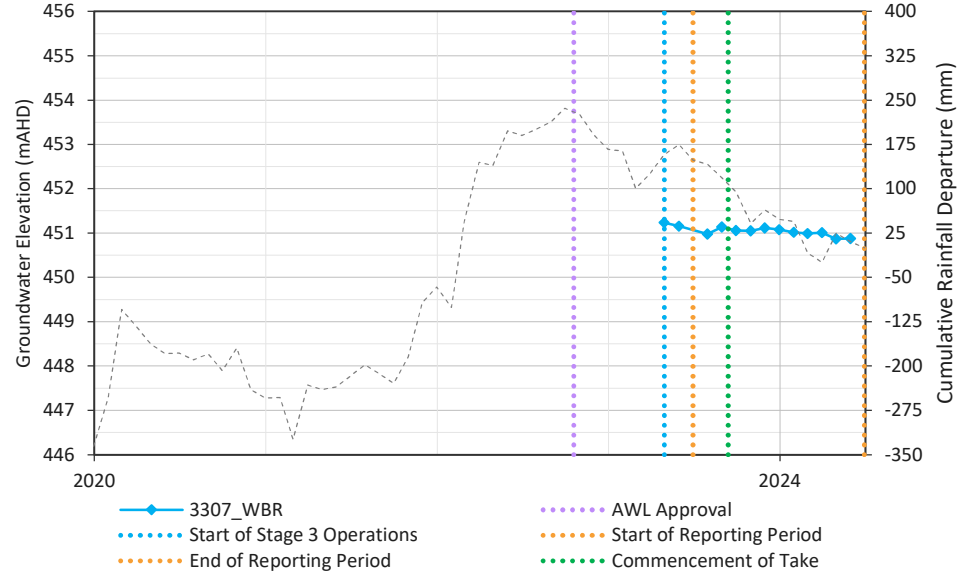
34PR Marburg Sandstone



Helidon Bore Helidon Sandstone



3307_WBR Rehabilitated Spoil





Appendix B Water Level Mann- Kendall Non-Seasonal Trend Analysis

Associated Water License 2024 Annual Monitoring Report

New Acland Stage 3 Project

New Acland Coal Pty Ltd

SLR Project No.: 620.041560.00001-v1.0

27 September 2024

Aquifer	Bore	Number of Samples	from	to	Historical minimum groundwater level (mAHD)	Historical maximum groundwater level (mAHD)	Tau	2-sided-p	Trend	Drawdown (m)
Oakey Creek Alluvium	GW09A	70	Nov-15	Jun-24	391.3	391.9	0.27	0.00	Yes-Upward	-0.16
Lagoon Creek Alluvium / Weathered WCM	GW14A	20	Sep-22	Jun-24	395.4	395.9	0.48	0.00	Yes-Upward	-0.14
Cain Creek Alluvium	A1	11	Aug-23	Jun-24	417.8	418.3	-0.02	1.00	No	0.01
Main Range Volcanics	109PR	11	Aug-23	Jun-24	451.1	451.8	-0.29	0.24	No	0.33
Main Range Volcanics	10PbR	45	Oct-20	Jun-24	422.9	430.4	0.01	0.90	No	0.67
Main Range Volcanics	18PbR	51	Mar-20	Jun-24	442.1	446.9	0.24	0.01	Yes-Upward	-0.1
Main Range Volcanics	18PbR2	18	Jan-23	Jun-24	441.6	443.8	-0.62	0.00	Yes-Downward	0.31
Main Range Volcanics	84PbR	45	Oct-20	Jun-24	437.8	441.9	0.21	0.04	Yes-Upward	-0.37
Main Range Volcanics	B1	12	Jul-23	Jun-24	439.7	440.3	-0.95	0.00	Yes-Downward	0.5
Main Range Volcanics	B3	12	Jul-23	Jun-24	422.2	424.4	-0.90	0.00	Yes-Downward	1.78
Main Range Volcanics	B4	9	Oct-23	Jun-24	435.8	435.9	0.20	0.53	No	-0.01
Main Range Volcanics	BMH1	189	Dec-07	Jun-24	438.3	449.5	-0.61	0.00	Yes-Downward	0.29
Main Range Volcanics	GW05A	79	Feb-15	Jun-24	453.8	459.6	0.42	0.00	Yes-Upward	0.35
Main Range Volcanics	GW11AR	16	Mar-23	Jun-24	448.2	449.7	-0.67	0.00	Yes-Downward	0.3
Main Range Volcanics	GW15A	62	Jun-16	Jun-24	419.2	419.8	-0.21	0.02	Yes-Downward	-0.06
Main Range Volcanics	GW16A	65	May-16	Jun-24	450.0	451.0	0.01	0.91	No	-0.11
Waipanna Coal Sequence	GW13B	123	Dec-07	Jun-24	400.6	401.3	-0.46	0.00	Yes-Downward	-0.01
Waipanna Coal Sequence	GW22A	85	Sep-08	Jun-24	392.3	393.0	0.45	0.00	Yes-Upward	-0.342
Waipanna Coal Sequence	WCS1	10	Sep-23	Jun-24	430.7	432.0	-0.67	0.01	Yes-Downward	1.25
Waipanna Coal Sequence	WCS2	20	Jan-15	Jun-24	399.3	401.1	0.68	0.00	Yes-Upward	-1.31
Acland Coal Sequence	112PR	15	Mar-23	Jun-24	390.2	391.0	0.36	0.07	No	-0.03
Acland Coal Sequence	113PGCB	91	Apr-13	Jun-24	407.2	409.6	-0.31	0.00	Yes-Downward	0
Acland Coal Sequence	114P	101	Apr-13	Jun-24	380.1	382.7	0.72	0.00	Yes-Upward	-0.34
Acland Coal Sequence	116P	99	Apr-13	Jun-24	388.2	390.6	0.85	0.00	Yes-Upward	-0.25
Acland Coal Sequence	118P	99	Apr-13	Jun-24	392.4	393.6	-0.37	0.00	Yes-Downward	-0.2
Acland Coal Sequence	119P	90	Apr-13	Jun-24	391.6	392.5	-0.42	0.00	Yes-Downward	0
Acland Coal Sequence	4517WB	79	Nov-17	Jun-24	403.8	411.7	0.44	0.00	Yes-Upward	0.25
Acland Coal Sequence	4518WB	79	Nov-17	Jun-24	407.3	409.7	-0.95	0.00	Yes-Downward	0
Acland Coal Sequence	81PcR	10	Aug-23	Jun-24	420.1	421.8	0.75	0.00	Yes-Upward	-1.2
Acland Coal Sequence	82PcR	17	Jan-23	Jun-24	421.2	425.5	-0.46	0.01	Yes-Downward	-3.91
Acland Coal Sequence	ACS1	10	Aug-23	Jun-24	408.6	409.9	-0.42	0.11	No	0.99
Acland Coal Sequence	ACS2	11	Aug-23	Jun-24	429.2	430.8	0.67	0.01	Yes-Upward	-1.66
Acland Coal Sequence	GW05B	78	Feb-15	Jun-24	409.5	412.0	0.72	0.00	Yes-Upward	0.17
Acland Coal Sequence	GW06B	76	Jan-15	Jun-24	400.4	405.2	0.85	0.00	Yes-Upward	-3.53
Acland Coal Sequence	GW08B	74	Jan-15	Jun-24	399.6	400.6	0.76	0.00	Yes-Upward	-0.14
Acland Coal Sequence	GW09B	72	May-15	Jun-24	392.0	393.0	0.23	0.00	Yes-Upward	-0.28
Acland Coal Sequence	GW10	66	Apr-15	Jun-24	402.5	404.2	0.74	0.00	Yes-Upward	-0.64
Acland Coal Sequence	GW12B	60	Nov-15	Jun-24	400.0	402.8	0.75	0.00	Yes-Upward	0
Acland Coal Sequence	GW17AR	13	May-23	Jun-24	351.5	361.4	0.51	0.02	Yes-Upward	-2.25
Acland Coal Sequence	GW18	24	Sep-16	Jun-24	392.2	392.9	0.55	0.00	Yes-Upward	-0.034
Acland Coal Sequence	GW19A	50	Sep-16	Jun-24	396.9	397.8	0.18	0.07	No	0.582
Acland Coal Sequence	GW20A	23	Nov-16	Jun-24	396.8	397.3	0.30	0.05	Yes-Upward	-0.029
Acland Coal Sequence	GW22B	47	Nov-16	Jun-24	392.3	392.7	0.56	0.00	Yes-Upward	-0.185
Acland Coal Sequence	111PGC LowerR	5	Feb-23	Jun-23	404.0	406.0	-1.00	0.03	Yes-Downward	0.78
Acland Coal Sequence	111PGC UpperR	13	May-23	Jun-24	402.7	404.4	-0.95	0.00	Yes-Downward	0.7

Aquifer	Bore	Number of Samples	from	to	Historical minimum groundwater level (mAHD)	Historical maximum groundwater level (mAHD)	Tau	2-sided-p	Trend	Drawdown (m)
Balgowan Coal Sequence	132WBR	17	Jan-23	Jun-24	421.4	421.8	-0.16	0.39	No	-0.26
Balgowan Coal Sequence	133WBR	17	Jan-23	Jun-24	420.8	421.4	0.64	0.00	Yes-Upward	-0.3
Balgowan Coal Sequence	18PcR	51	Mar-20	Jun-24	402.5	418.4	0.84	0.00	Yes-Upward	-0.92
Balgowan Coal Sequence	18PcR2	16	Mar-23	Jun-24	416.7	418.4	0.90	0.00	Yes-Upward	-0.88
Balgowan Coal Sequence	2289 Lower	120	Apr-14	Jun-24	429.9	433.9	0.58	0.00	Yes-Upward	-0.15
Balgowan Coal Sequence	2291P	168	Feb-09	Jun-24	418.2	423.3	0.58	0.00	Yes-Upward	-0.08
Balgowan Coal Sequence	25PcR	104	Jun-15	Jun-24	424.6	426.6	0.74	0.00	Yes-Upward	0.02
Balgowan Coal Sequence	26PcR	110	Apr-15	Jun-24	433.0	436.3	0.85	0.00	Yes-Upward	-0.79
Balgowan Coal Sequence	27PcR	43	Oct-20	Jun-24	436.0	438.5	0.62	0.00	Yes-Upward	-0.88
Balgowan Coal Sequence	28PcR	43	Nov-20	Jun-24	429.9	431.9	0.90	0.00	Yes-Upward	-0.58
Balgowan Coal Sequence	3314_WB	114	May-14	Jun-24	411.8	413.6	0.88	0.00	Yes-Upward	-0.26
Balgowan Coal Sequence	BCS1	11	Aug-23	Jun-24	407.5	408.9	0.07	0.81	No	-0.45
Balgowan Coal Sequence	BCS2	12	Jul-23	Jun-24	388.5	390.1	0.97	0.00	Yes-Upward	-1.26
Balgowan Coal Sequence	BCS3	15	Mar-23	Jun-24	401.3	403.3	0.96	0.00	Yes-Upward	-0.98
Balgowan Coal Sequence	CSMH1Rb	41	Nov-20	Jun-24	402.0	404.9	0.97	0.00	Yes-Upward	-1.18
Balgowan Coal Sequence	GW07BR	16	Mar-23	Jun-24	386.6	390.5	0.28	0.15	No	-0.48
Balgowan Coal Sequence	GW07BR2	11	Aug-23	Jun-24	386.9	387.3	0.79	0.00	Yes-Upward	-0.44
Balgowan Coal Sequence	GW19B	48	Nov-16	Jun-24	392.6	394.0	0.75	0.00	Yes-Upward	-0.233
Balgowan Coal Sequence	GW20B	22	Nov-16	Jun-24	392.8	394.0	0.31	0.05	Yes-Upward	-0.155
Balgowan Coal Sequence	GW22C	46	Nov-16	Jun-24	390.6	391.9	0.47	0.00	Yes-Upward	-0.231
Marburg Sandstone	130WBR	11	Aug-23	Jun-24	415.1	415.4	0.40	0.10	No	-0.22
Marburg Sandstone	21P	141	Feb-02	Jun-24	411.5	417.6	-0.85	0.00	Yes-Downward	0
Marburg Sandstone	34PR	11	Aug-23	Jun-24	411.3	411.6	0.62	0.01	Yes-Upward	-0.21
Marburg Sandstone	41P	140	Feb-02	Jun-24	393.6	420.0	0.33	0.00	Yes-Upward	0
Marburg Sandstone	48P	146	Feb-02	Jun-24	403.8	419.4	-0.02	0.65	No	0
Marburg Sandstone	GW08C	61	Jun-16	Jun-24	326.8	341.4	-0.98	0.00	Yes-Downward	1.28
Marburg Sandstone	GW09C	71	Jun-15	Jun-24	391.8	393.2	-0.03	0.71	No	-0.33
Marburg Sandstone	GW11B	74	Apr-15	Jun-24	404.5	409.5	0.95	0.00	Yes-Upward	-0.25
Marburg Sandstone	M1	12	Jun-23	Jun-24	399.2	401.1	0.91	0.00	Yes-Upward	-1.01
Marburg Sandstone	M2	11	Aug-23	Jun-24	403.9	405.9	-0.38	0.12	No	1.9
Marburg Sandstone	M3	11	Aug-23	Jun-24	380.7	381.2	0.48	0.05	No	-0.27
Marburg Sandstone	M4	13	May-23	Jun-24	403.6	404.5	0.92	0.00	Yes-Upward	-0.523
Helidon Sandstone	Helidon Bore	96	Nov-06	Jun-24	179.5	191.9	-0.01	0.87	No	-2.64
Rehabilitated Spoil	3307_WBR	13	May-23	Jun-24	450.9	451.2	-0.64	0.00	Yes-Downward	0.26



Appendix C Water Quality Time Series

Associated Water License 2024 Annual Monitoring Report

New Acland Stage 3 Project

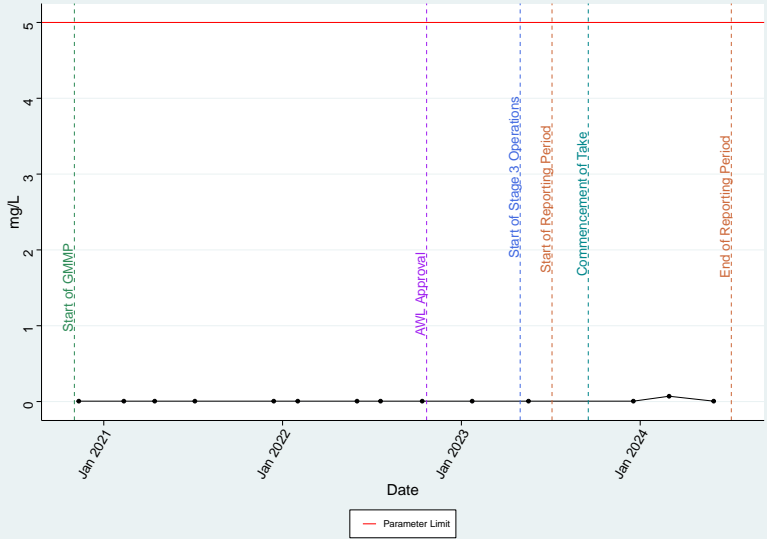
New Acland Coal Pty Ltd

SLR Project No.: 620.041560.00001-v1.0

27 September 2024

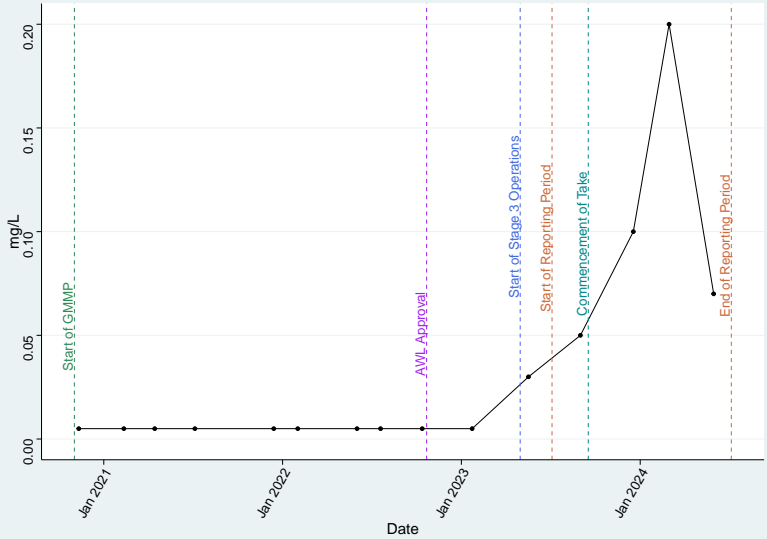
Bore 10PbR (Main Range Volcanics) – Al_diss

Mann Kendall Trend Test | $\tau = 0.32$ | p -value = 0.215 | No trend



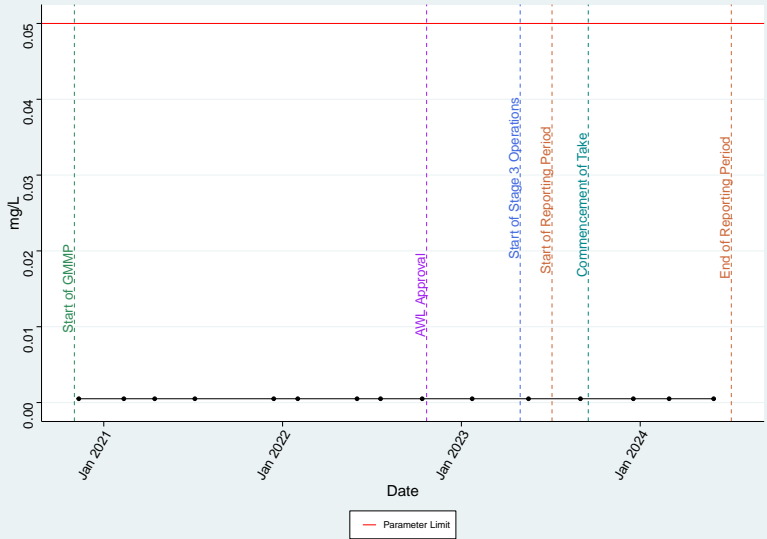
Bore 10PbR (Main Range Volcanics) – Ammonia as N

Mann Kendall Trend Test | $\tau = 0.706$ | p -value = 0.00109 | Positive trend



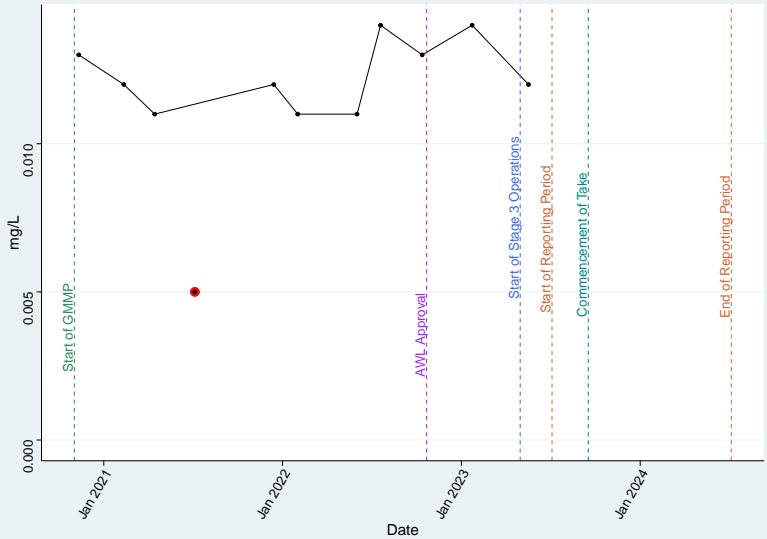
Bore 10PbR (Main Range Volcanics) – As_diss

Mann Kendall Trend Test | $\tau = 1$ | p -value = 1 | No trend



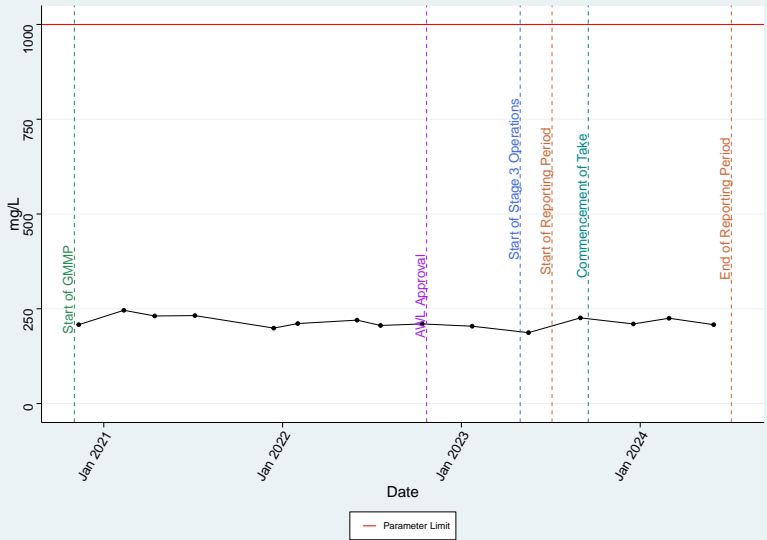
Bore 10PbR (Main Range Volcanics) – Ba_diss

Mann Kendall Trend Test | $\tau = 0.216$ | p -value = 0.423 | No trend



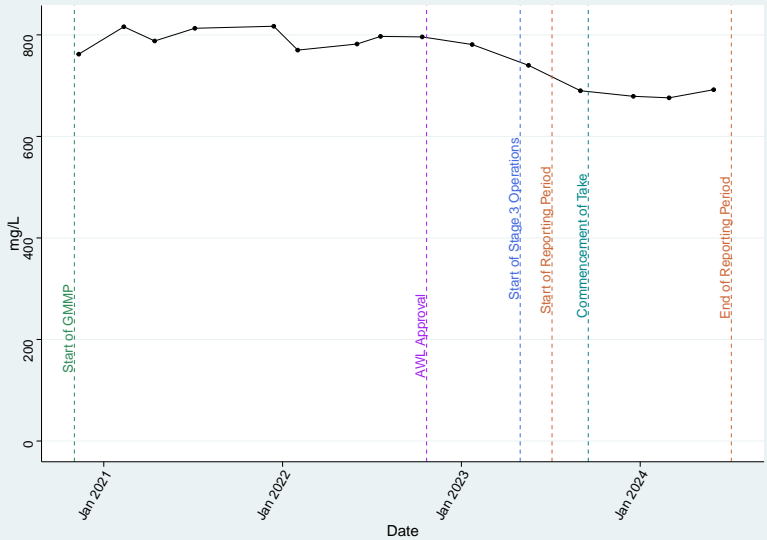
Bore 10PbR (Main Range Volcanics) – Ca

Mann Kendall Trend Test | $\tau = -0.221$ | p -value = 0.275 | No trend



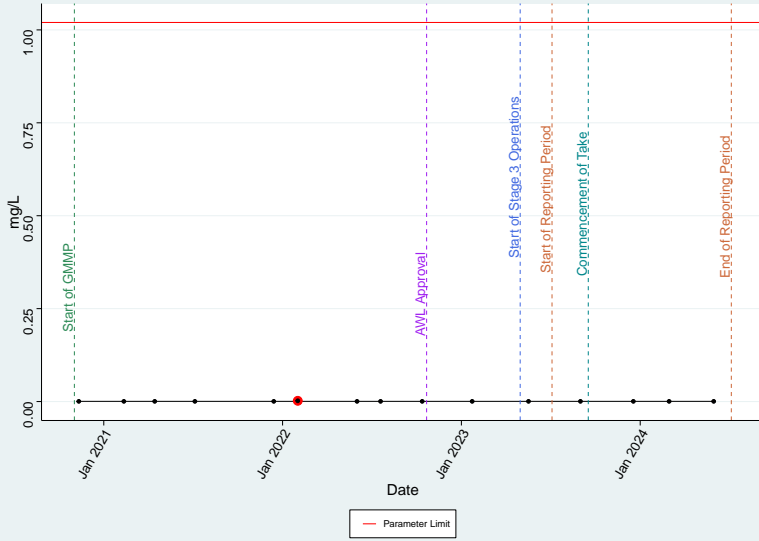
Bore 10PbR (Main Range Volcanics) – Cl

Mann Kendall Trend Test | $\tau = -0.543$ | p -value = 0.00558 | Negative trend



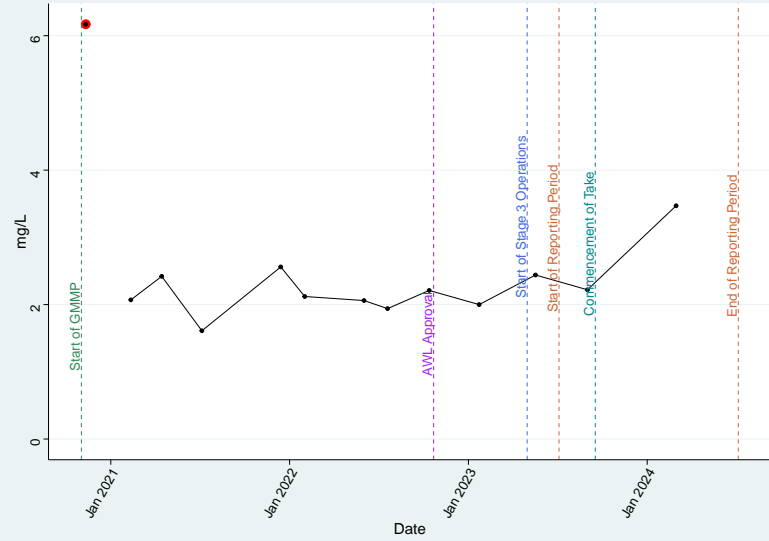
Bore 10PbR (Main Range Volcanics) – Cu_diss

Mann Kendall Trend Test | $\tau = -0.104$ | $p\text{-value} = 0.728$ | No trend



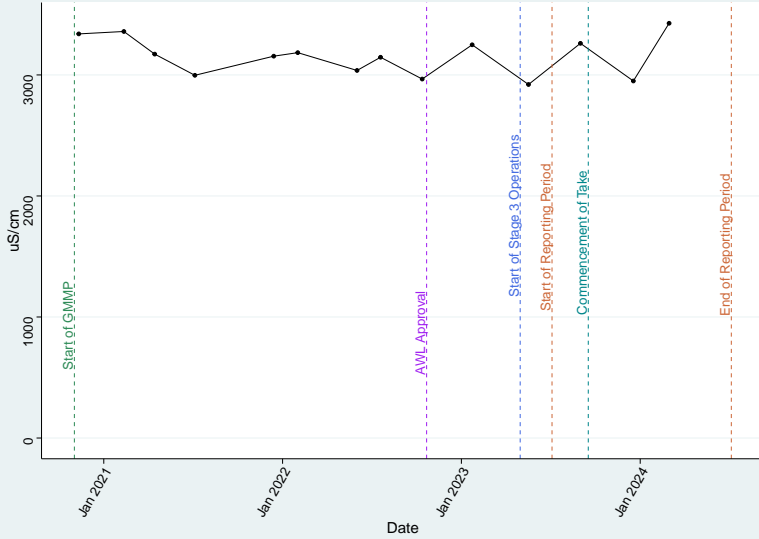
Bore 10PbR (Main Range Volcanics) – DO_Field

Mann Kendall Trend Test | $\tau = 0.0513$ | $p\text{-value} = 0.855$ | No trend



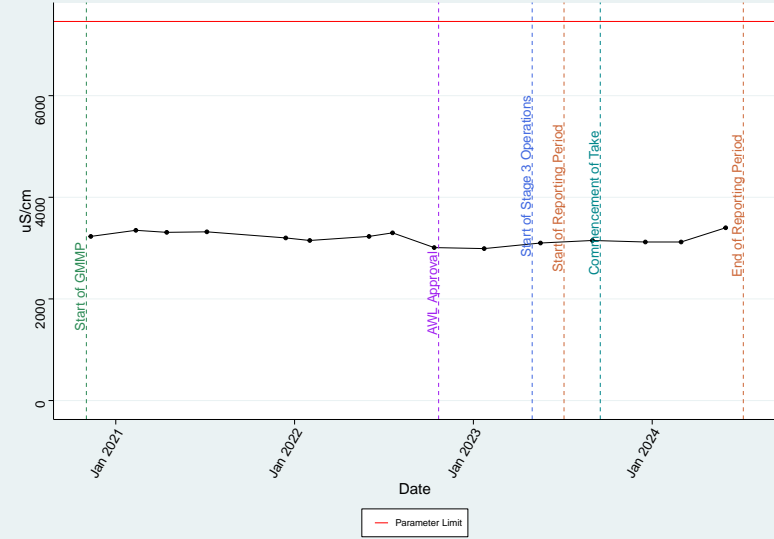
Bore 10PbR (Main Range Volcanics) – EC_Field

Mann Kendall Trend Test | $\tau = -0.165$ | $p\text{-value} = 0.443$ | No trend



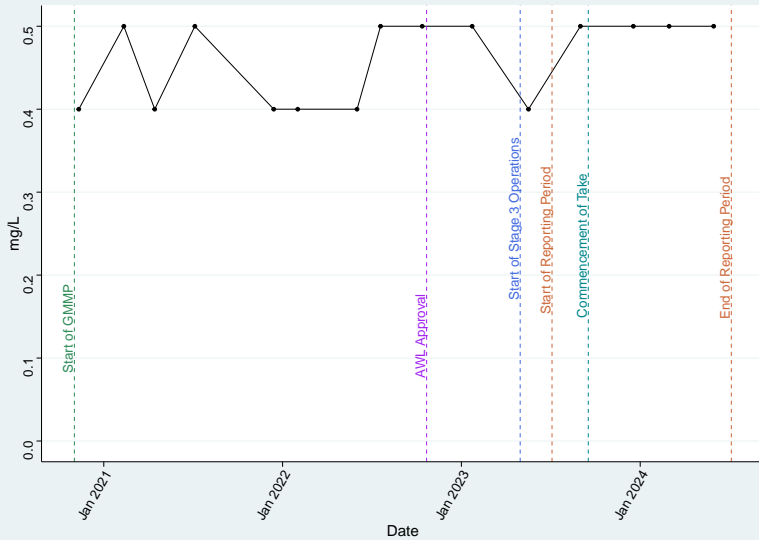
Bore 10PbR (Main Range Volcanics) – EC_Lab

Mann Kendall Trend Test | $\tau = -0.309$ | $p\text{-value} = 0.124$ | No trend



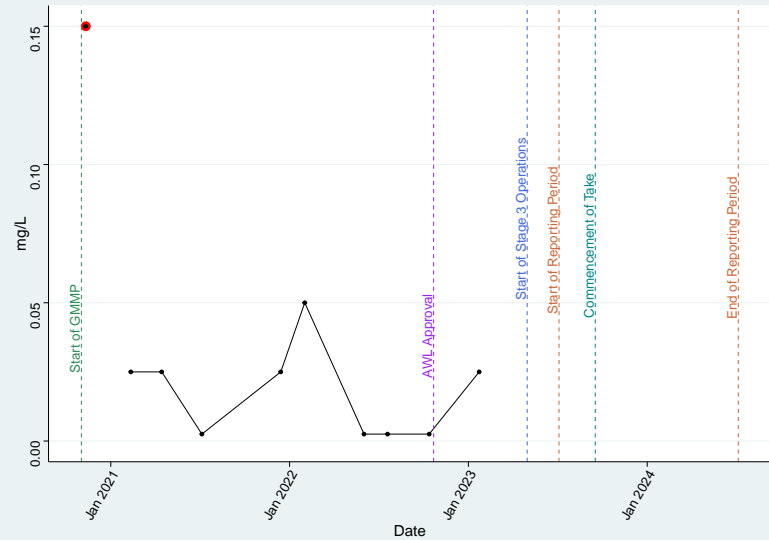
Bore 10PbR (Main Range Volcanics) – F

Mann Kendall Trend Test | $\tau = 0.398$ | $p\text{-value} = 0.0875$ | No trend



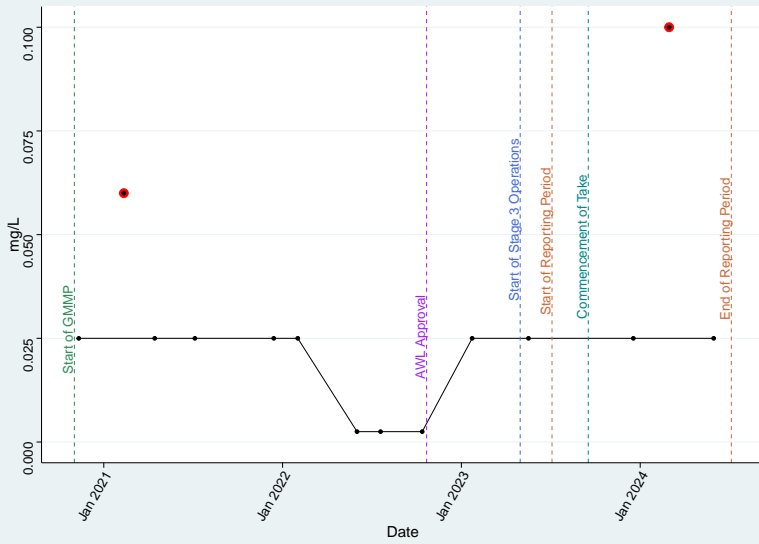
Bore 10PbR (Main Range Volcanics) – Fe2

Mann Kendall Trend Test | $\tau = -0.389$ | $p\text{-value} = 0.177$ | No trend



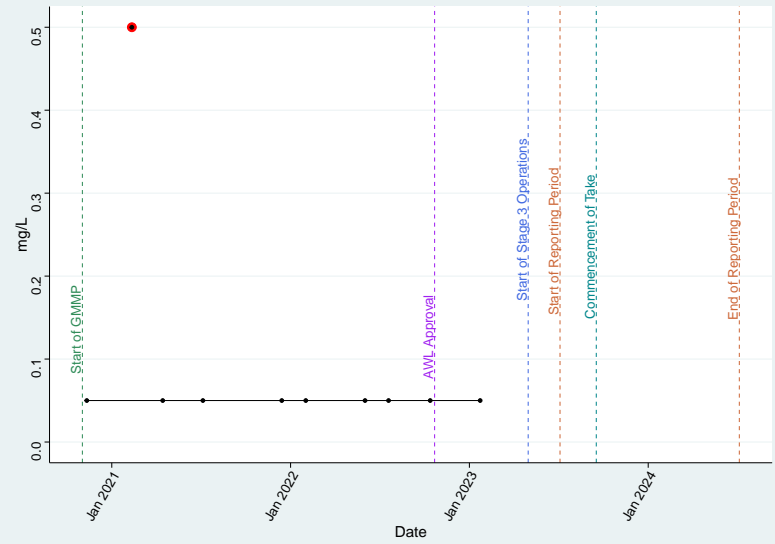
Bore 10PbR (Main Range Volcanics) – Fe_diss

Mann Kendall Trend Test | $\tau = -0.0291$ | $p\text{-value} = 0.948$ | No trend



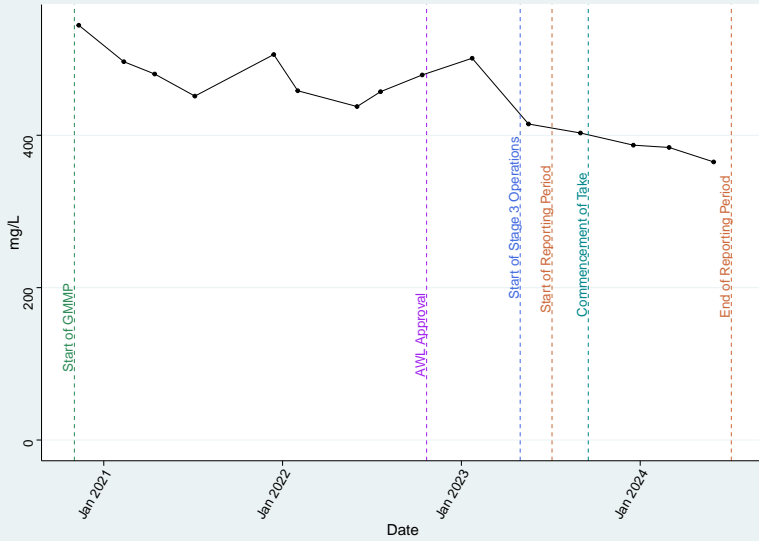
Bore 10PbR (Main Range Volcanics) – H2S

Mann Kendall Trend Test | $\tau = -0.348$ | $p\text{-value} = 0.296$ | No trend



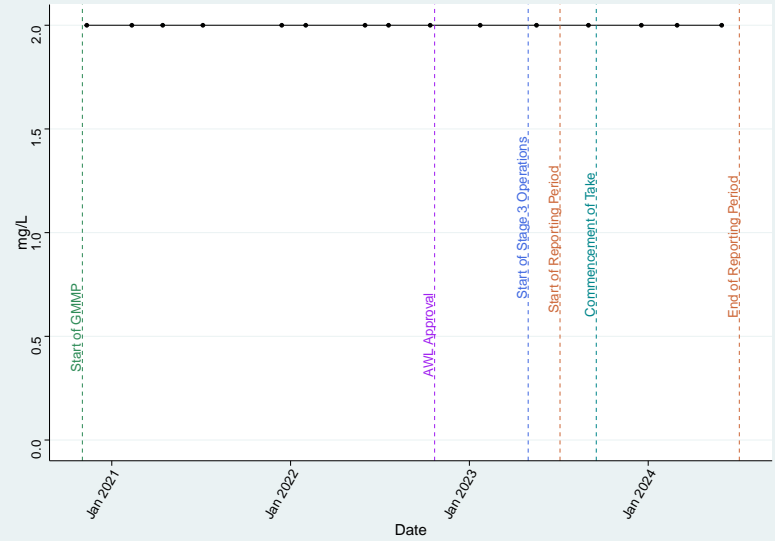
Bore 10PbR (Main Range Volcanics) – HCO3

Mann Kendall Trend Test | $\tau = -0.676$ | $p\text{-value} = 0.000532$ | Negative trend



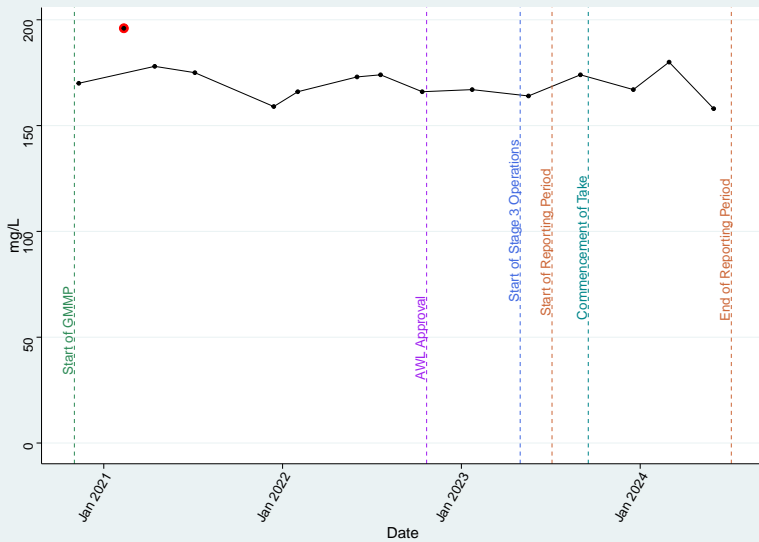
Bore 10PbR (Main Range Volcanics) – K

Mann Kendall Trend Test | $\tau = 1$ | $p\text{-value} = 1$ | No trend



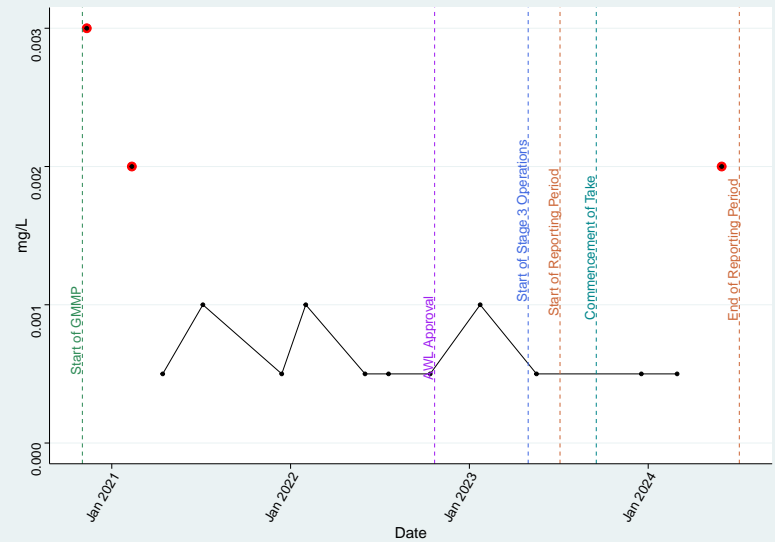
Bore 10PbR (Main Range Volcanics) – Mg

Mann Kendall Trend Test | $\tau = -0.232$ | $p\text{-value} = 0.253$ | No trend



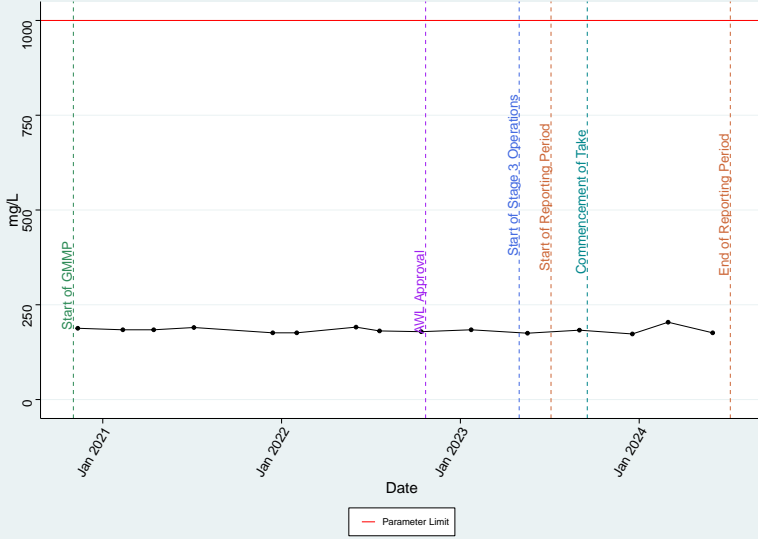
Bore 10PbR (Main Range Volcanics) – Mn_diss

Mann Kendall Trend Test | $\tau = -0.287$ | $p\text{-value} = 0.218$ | No trend



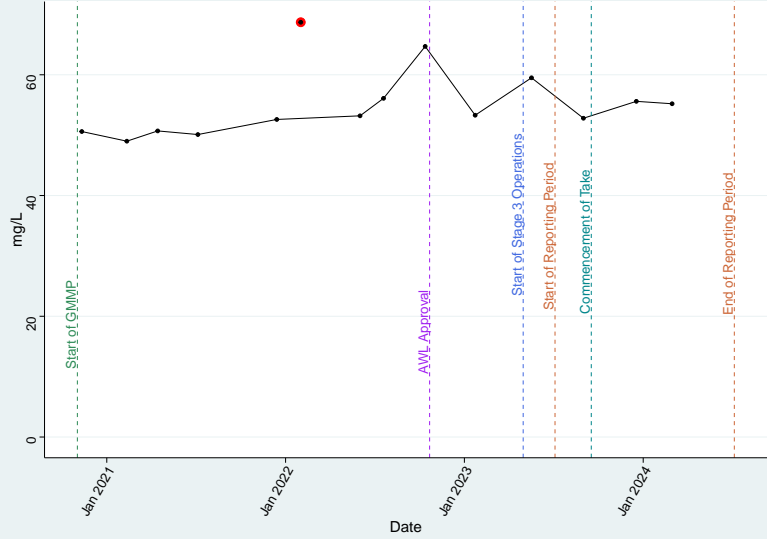
Bore 10PbR (Main Range Volcanics) – Na

Mann Kendall Trend Test | $\tau = -0.245$ | $p\text{-value} = 0.231$ | No trend



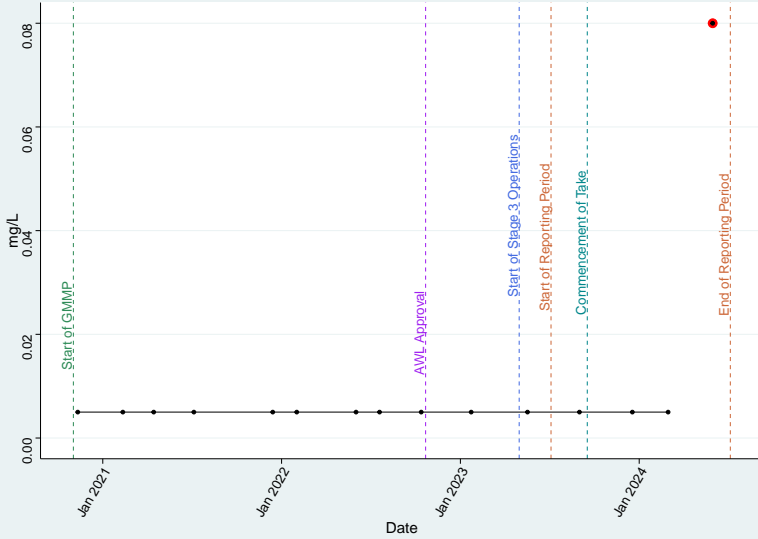
Bore 10PbR (Main Range Volcanics) – Nitrate as N

Mann Kendall Trend Test | $\tau = 0.429$ | $p\text{-value} = 0.0375$ | Positive trend



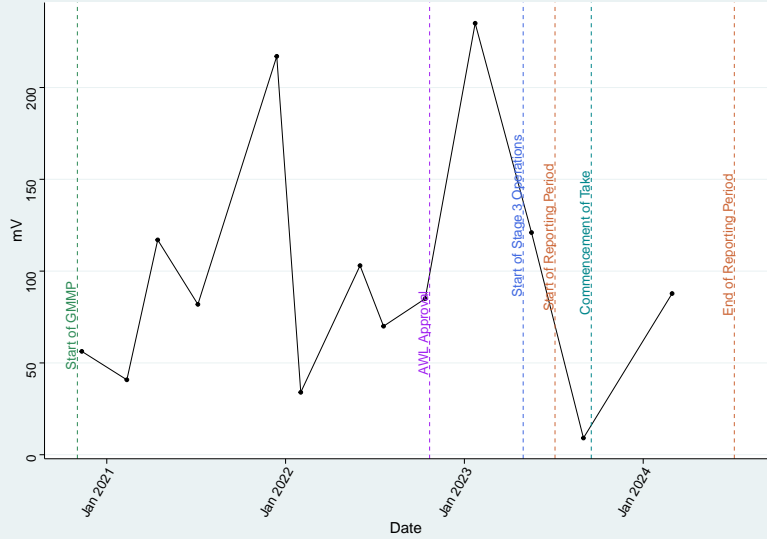
Bore 10PbR (Main Range Volcanics) – Nitrite as N

Mann Kendall Trend Test | $\tau = 0.365$ | $p\text{-value} = 0.132$ | No trend



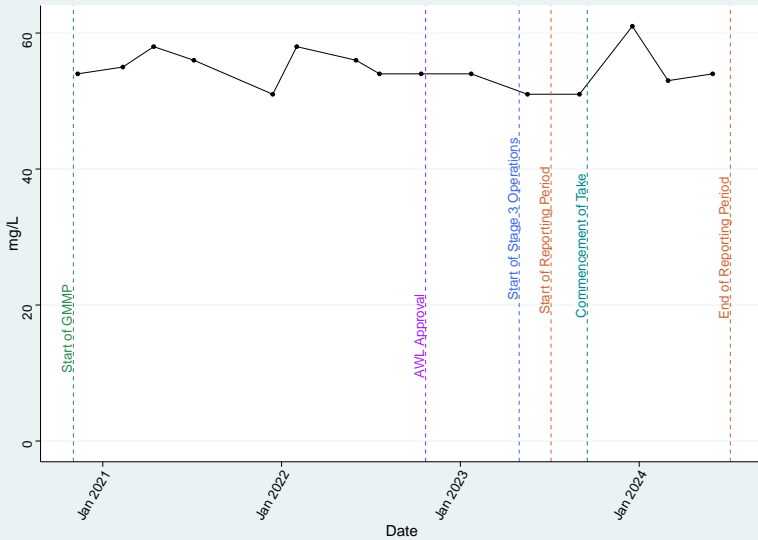
Bore 10PbR (Main Range Volcanics) – Redox_Field

Mann Kendall Trend Test | $\tau = 0.128$ | $p\text{-value} = 0.583$ | No trend



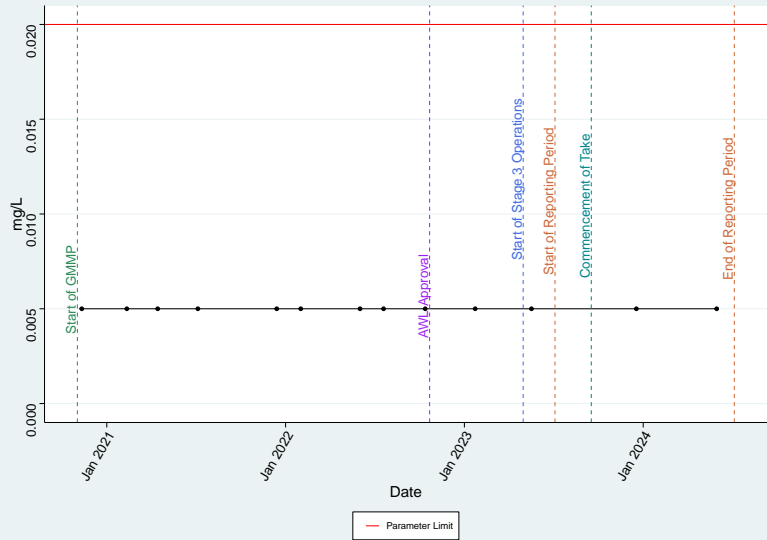
Bore 10PbR (Main Range Volcanics) – SO4

Mann Kendall Trend Test | $\tau = -0.226$ | $p\text{-value} = 0.285$ | No trend



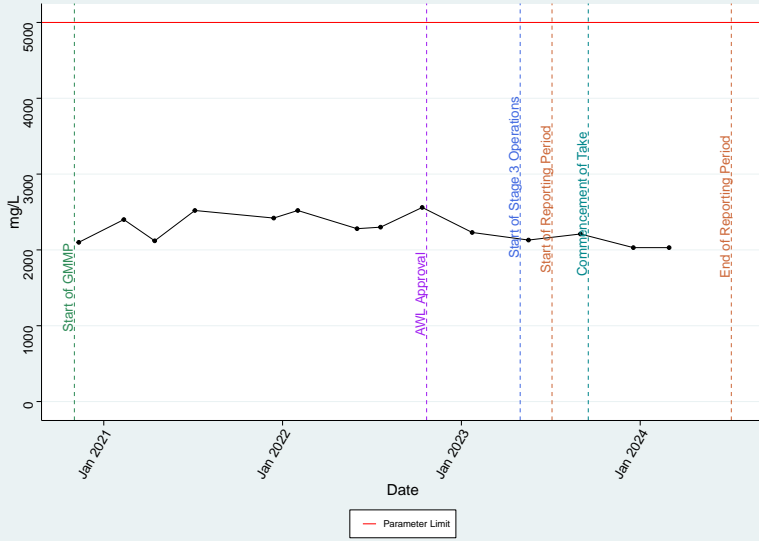
Bore 10PbR (Main Range Volcanics) – Se_diss

Mann Kendall Trend Test | $\tau = 1$ | $p\text{-value} = 1$ | No trend



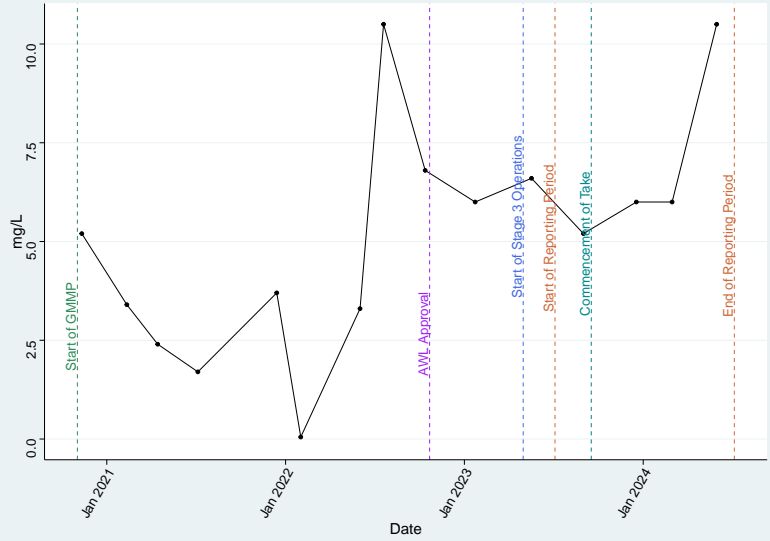
Bore 10PbR (Main Range Volcanics) – TDS

Mann Kendall Trend Test | $\tau = -0.278$ | $p\text{-value} = 0.188$ | No trend



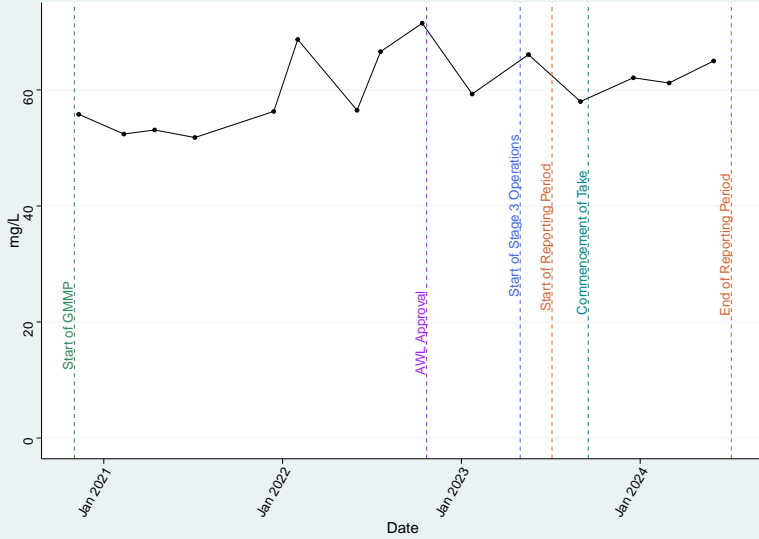
Bore 10PbR (Main Range Volcanics) – TKN

Mann Kendall Trend Test | $\tau = 0.39$ | $p\text{-value} = 0.052$ | No trend



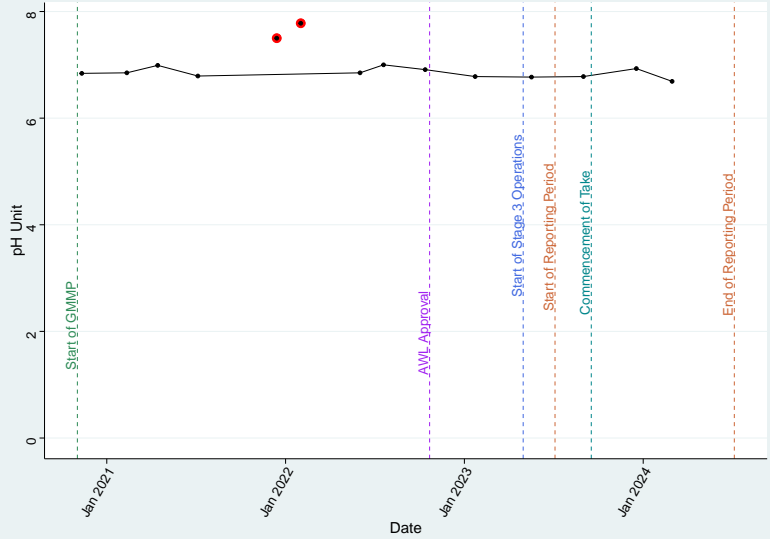
Bore 10PbR (Main Range Volcanics) – Total_N

Mann Kendall Trend Test | $\tau = 0.41$ | $p\text{-value} = 0.0377$ | Positive trend



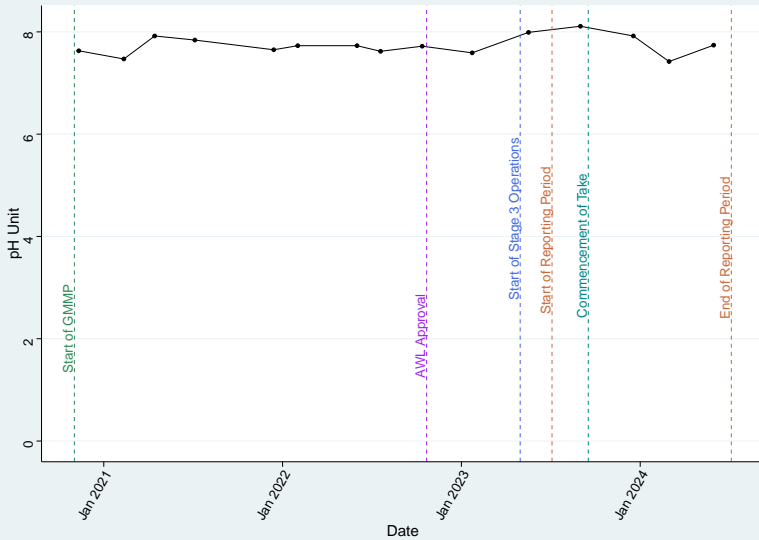
Bore 10PbR (Main Range Volcanics) – pH_Field

Mann Kendall Trend Test | $\tau = -0.278$ | $p\text{-value} = 0.188$ | No trend



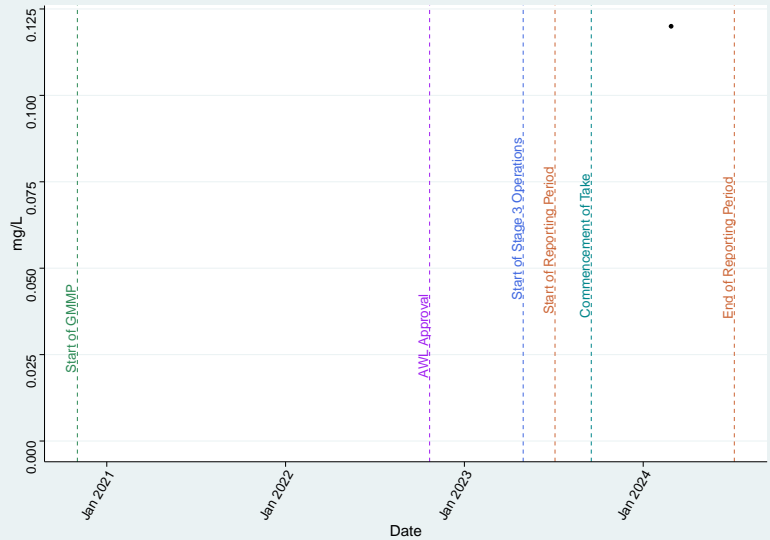
Bore 10PbR (Main Range Volcanics) – pH_Lab

Mann Kendall Trend Test | $\tau = 0.106$ | $p\text{-value} = 0.62$ | No trend



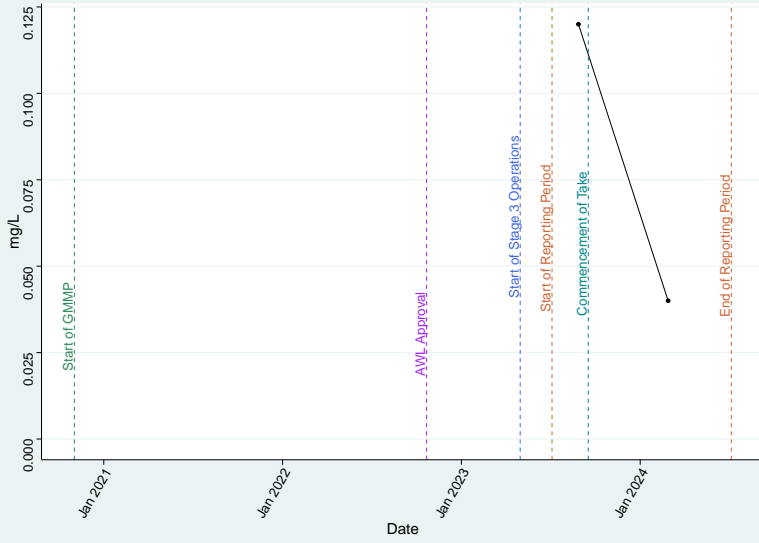
Bore 109PR (Main Range Volcanics) – Al_diss

Mann Kendall Trend Test | $\tau =$ Not enough data | $p\text{-value} =$ Not enough data | Not evaluated



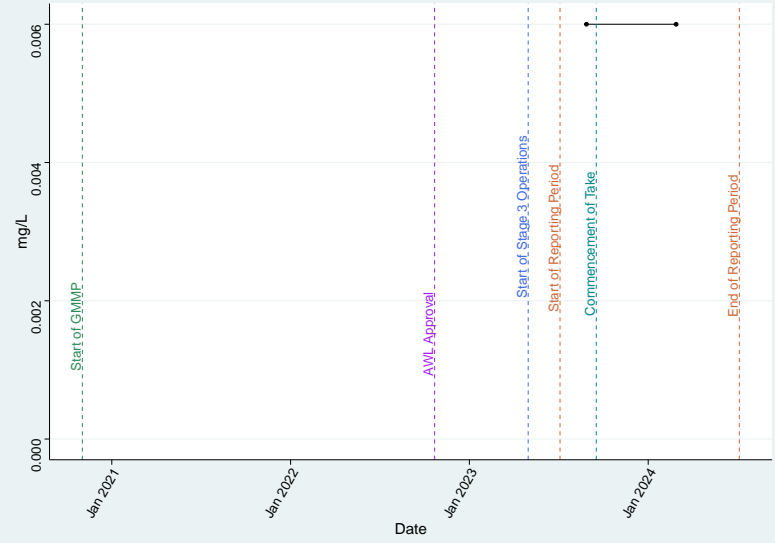
Bore 109PR (Main Range Volcanics) – Ammonia as N

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



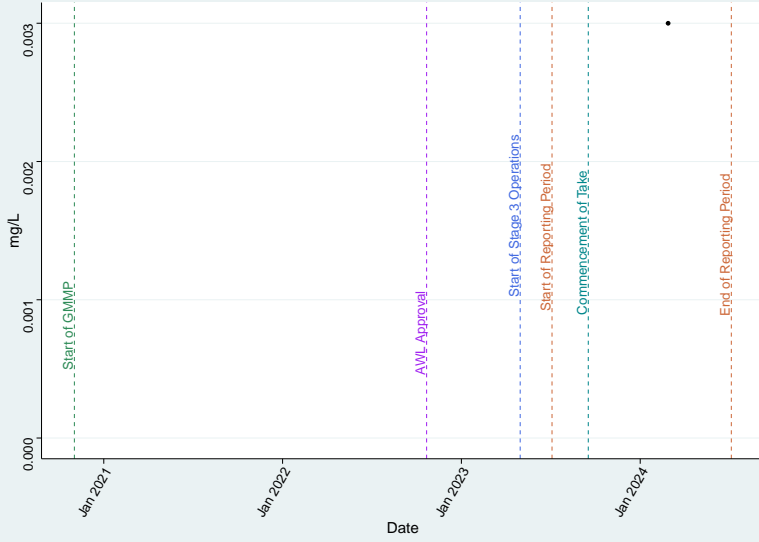
Bore 109PR (Main Range Volcanics) – As_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



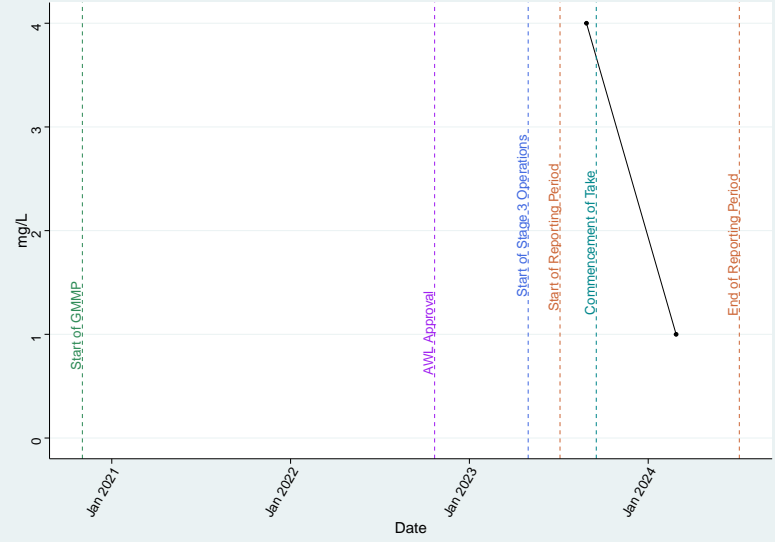
Bore 109PR (Main Range Volcanics) – Ba_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



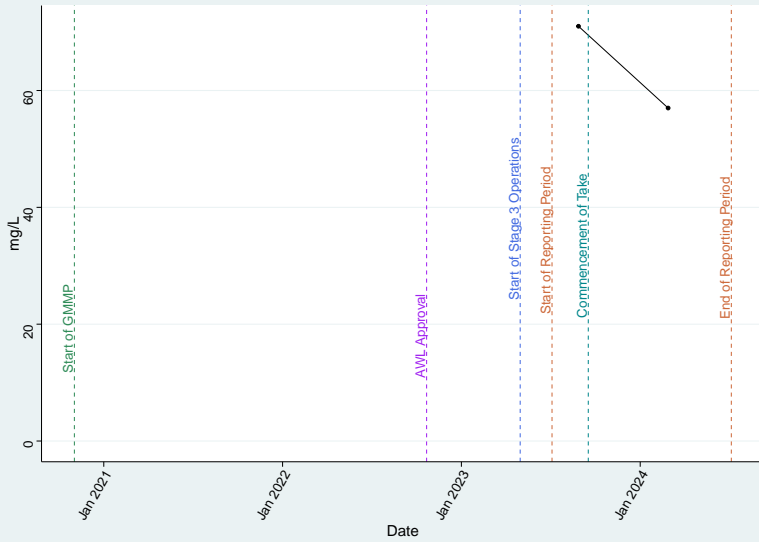
Bore 109PR (Main Range Volcanics) – Ca

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



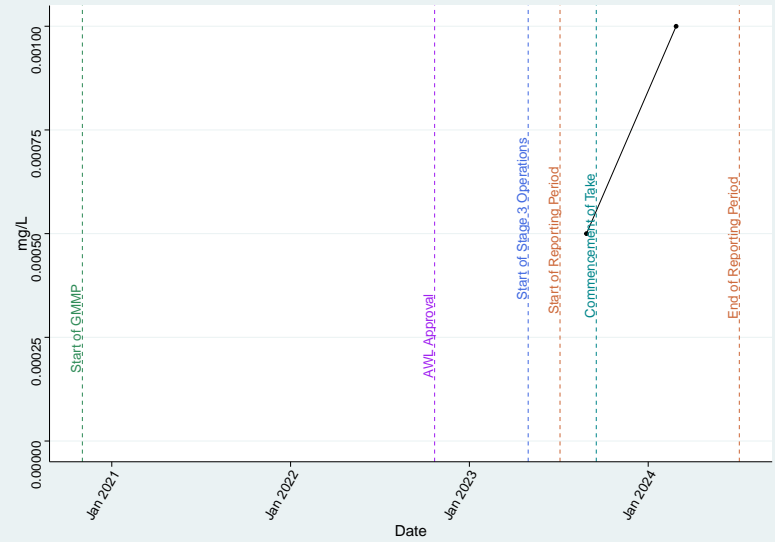
Bore 109PR (Main Range Volcanics) – Cl

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



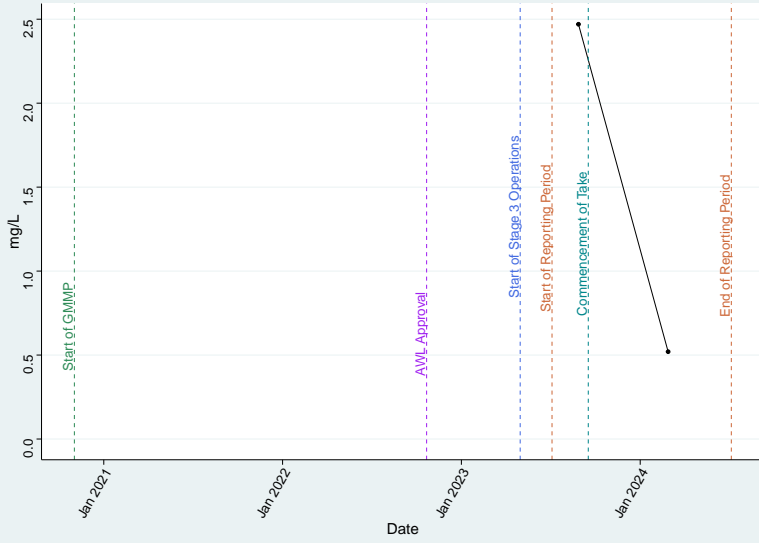
Bore 109PR (Main Range Volcanics) – Cu_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



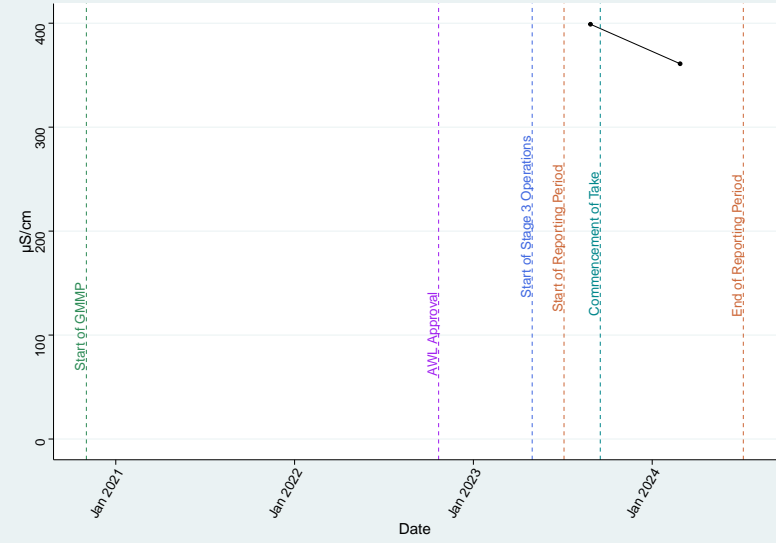
Bore 109PR (Main Range Volcanics) – DO_Field

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



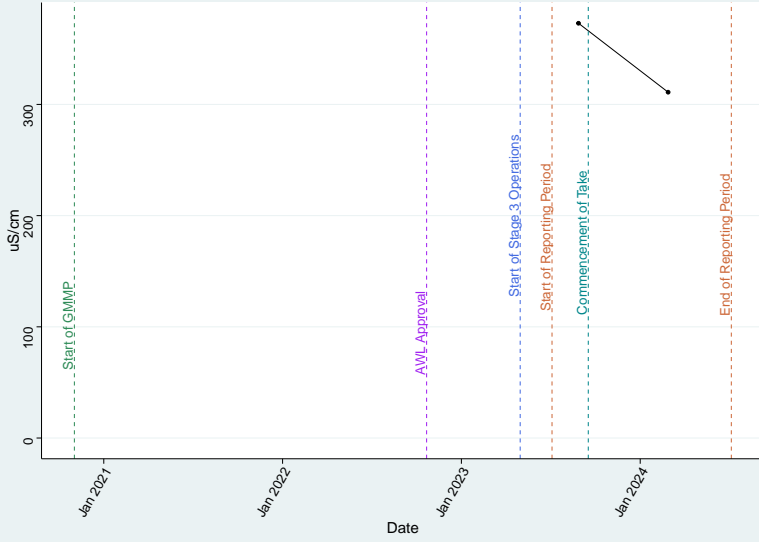
Bore 109PR (Main Range Volcanics) – EC_Field

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



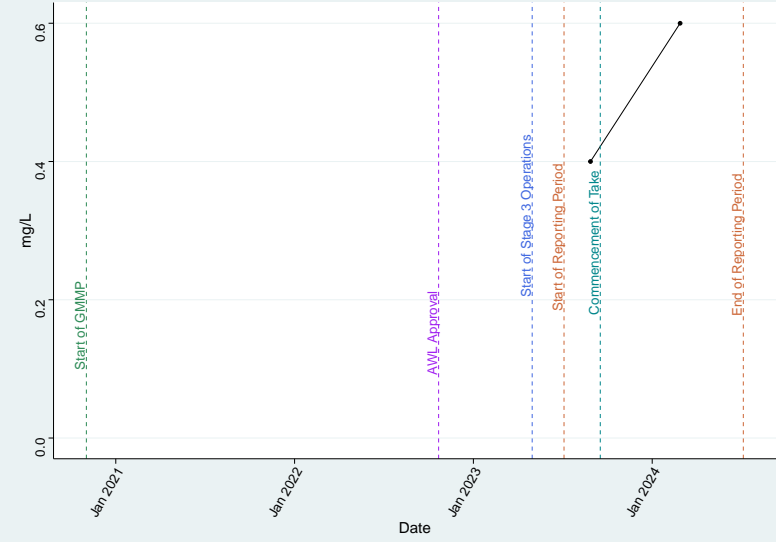
Bore 109PR (Main Range Volcanics) – EC_Lab

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



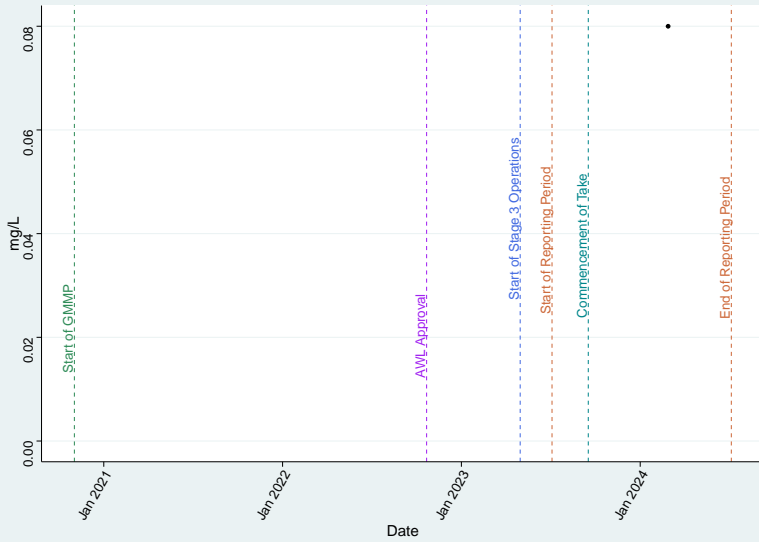
Bore 109PR (Main Range Volcanics) – F

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



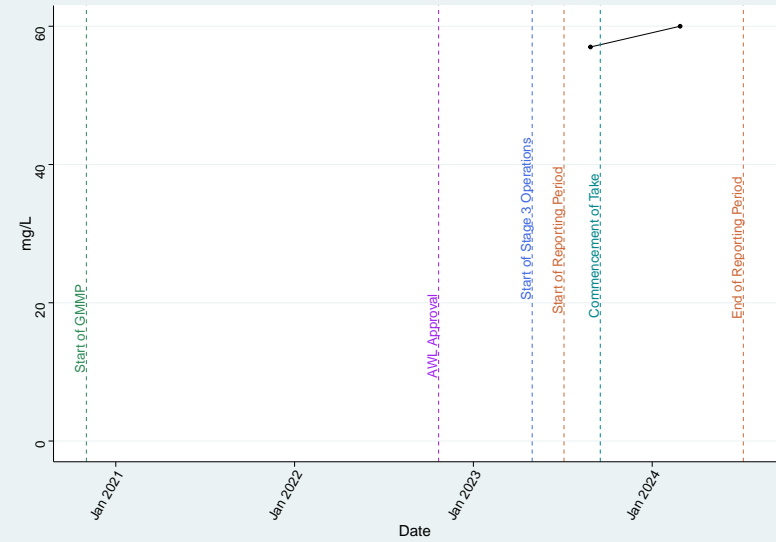
Bore 109PR (Main Range Volcanics) – Fe_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



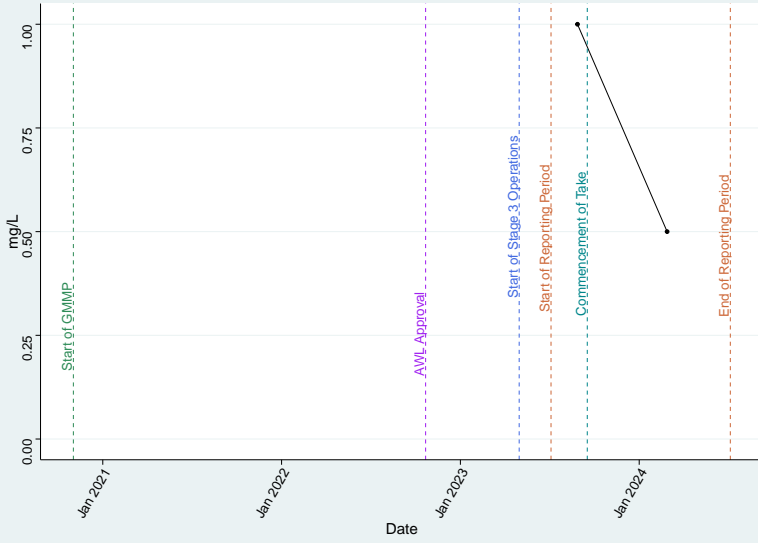
Bore 109PR (Main Range Volcanics) – HCO3

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



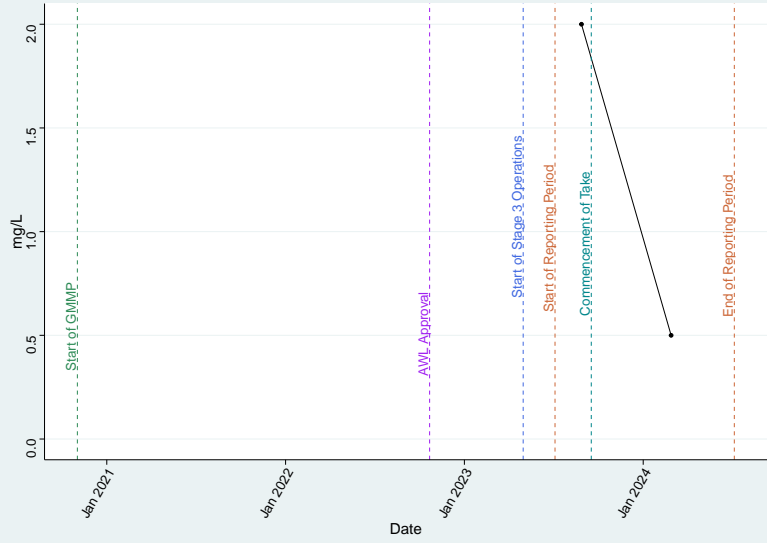
Bore 109PR (Main Range Volcanics) – K

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



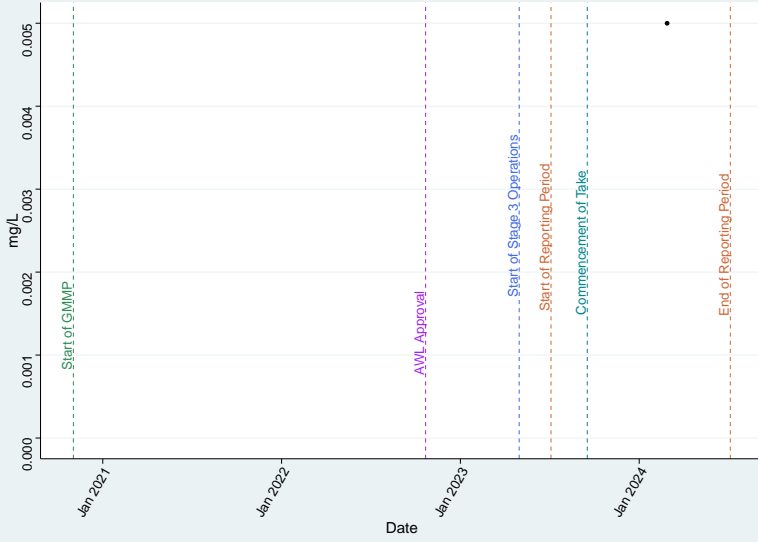
Bore 109PR (Main Range Volcanics) – Mg

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



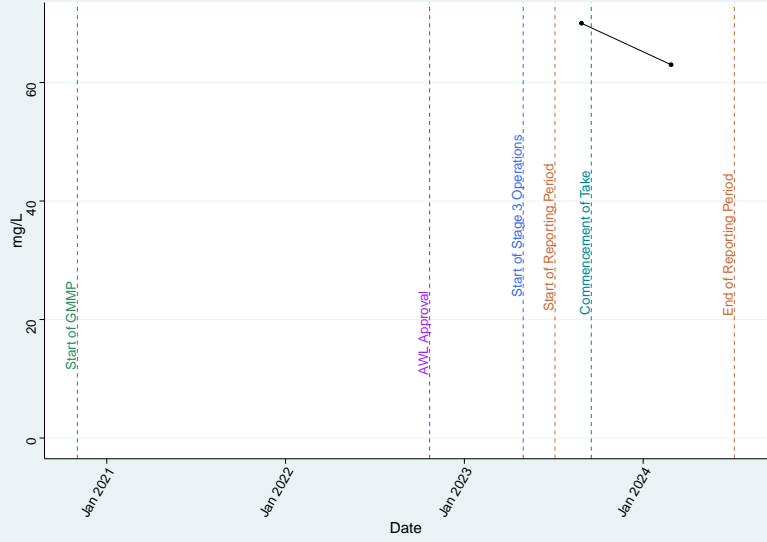
Bore 109PR (Main Range Volcanics) – Mn_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



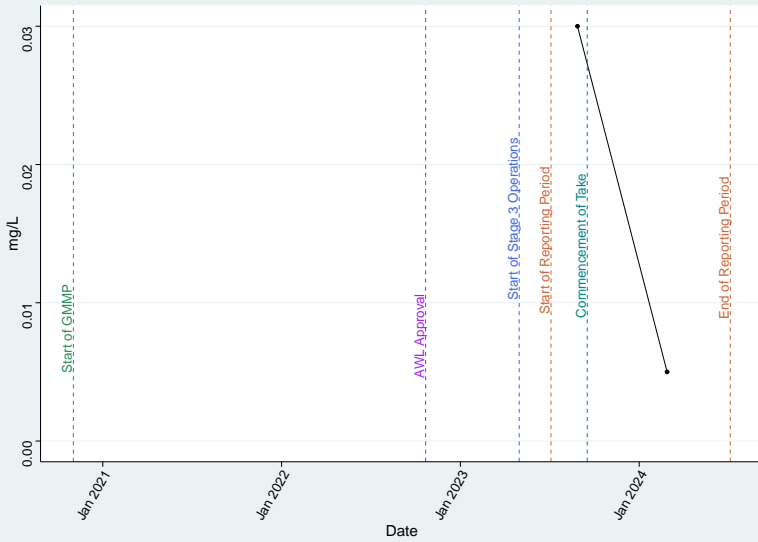
Bore 109PR (Main Range Volcanics) – Na

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



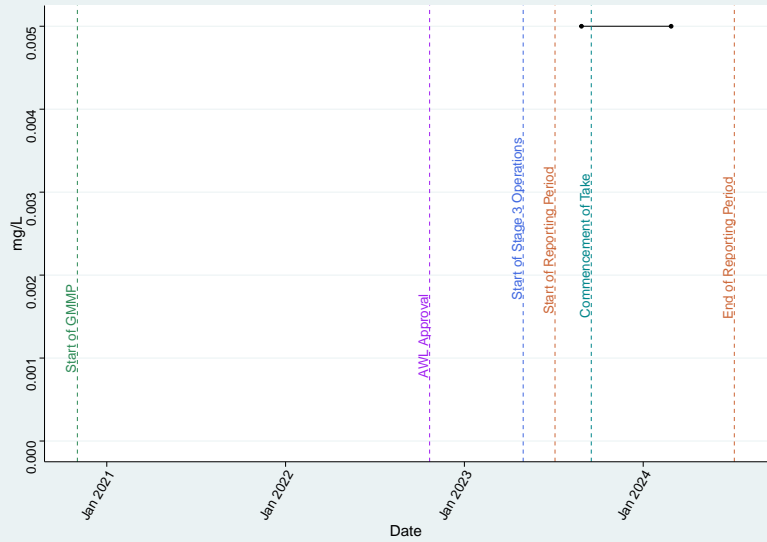
Bore 109PR (Main Range Volcanics) – Nitrate as N

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



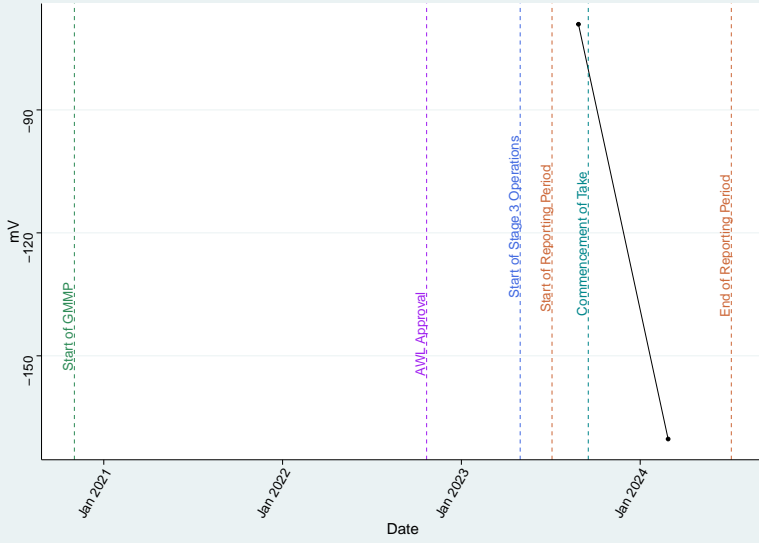
Bore 109PR (Main Range Volcanics) – Nitrite as N

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



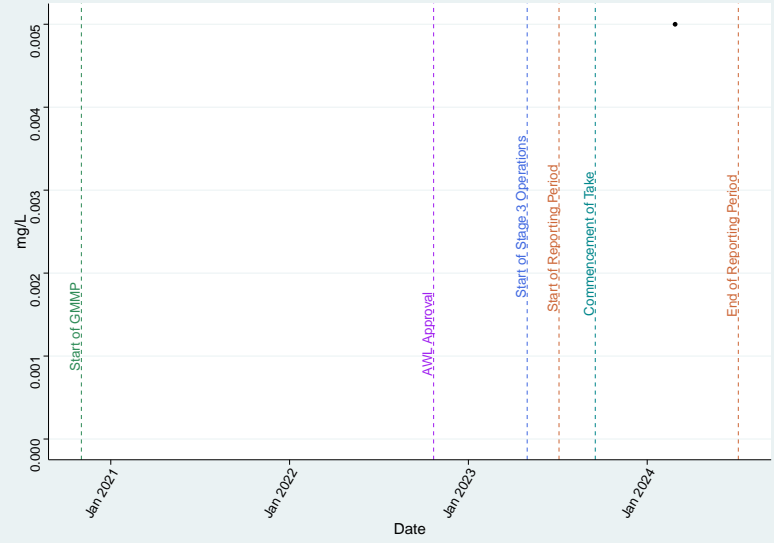
Bore 109PR (Main Range Volcanics) – Redox_Field

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



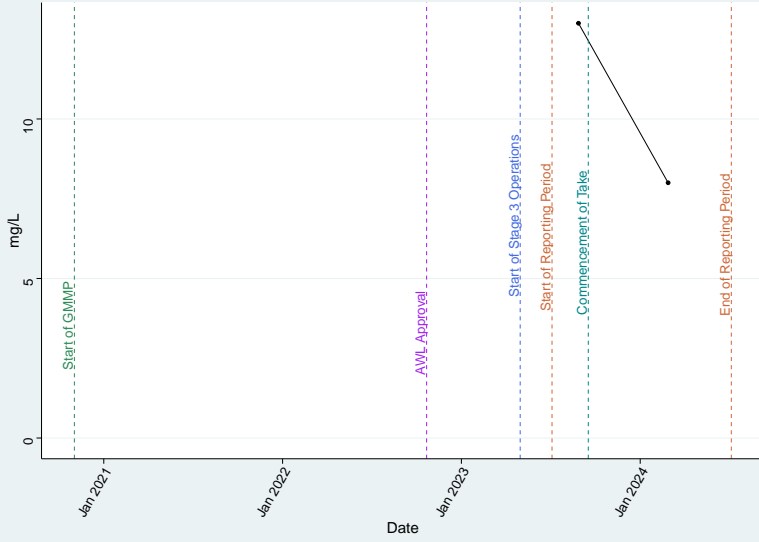
Bore 109PR (Main Range Volcanics) – Se_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



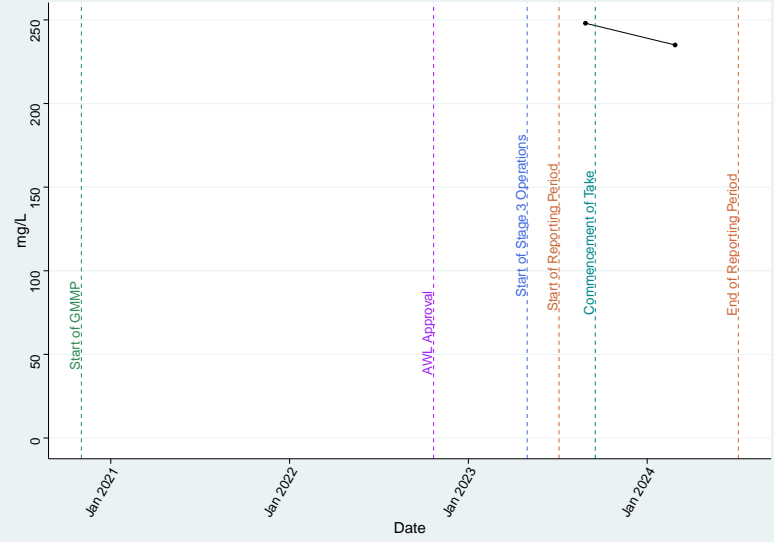
Bore 109PR (Main Range Volcanics) – SO4

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



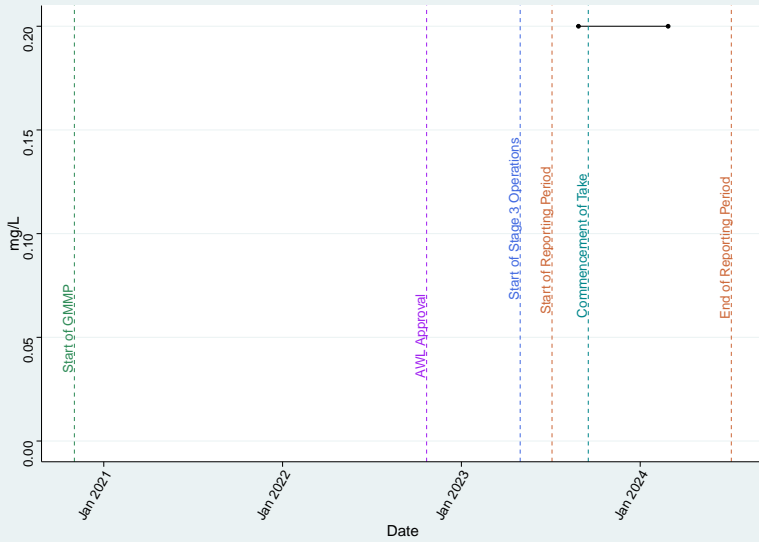
Bore 109PR (Main Range Volcanics) – TDS

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



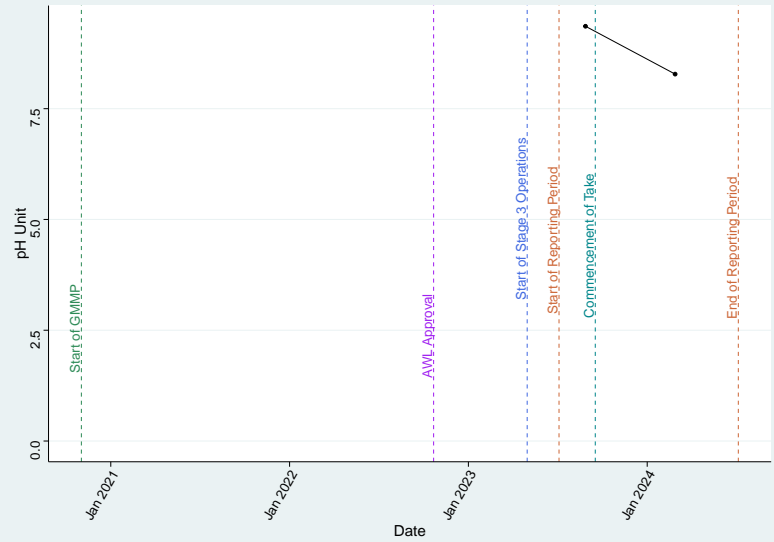
Bore 109PR (Main Range Volcanics) – TKN

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



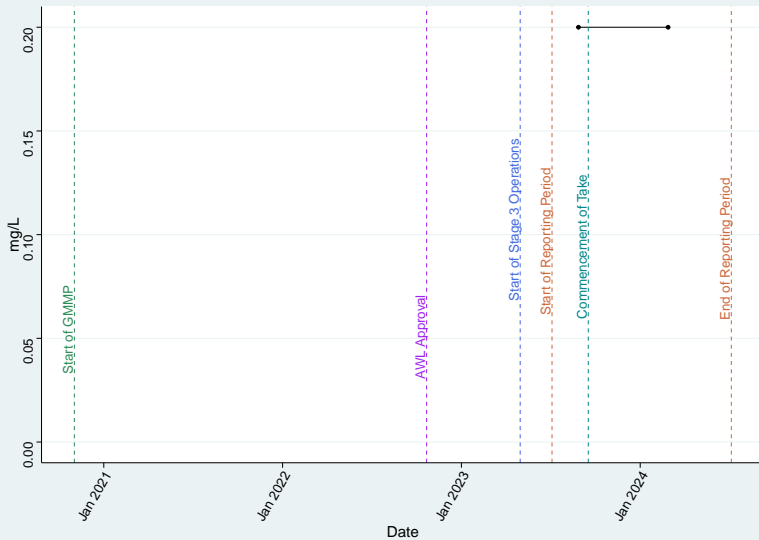
Bore 109PR (Main Range Volcanics) – pH_Field

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



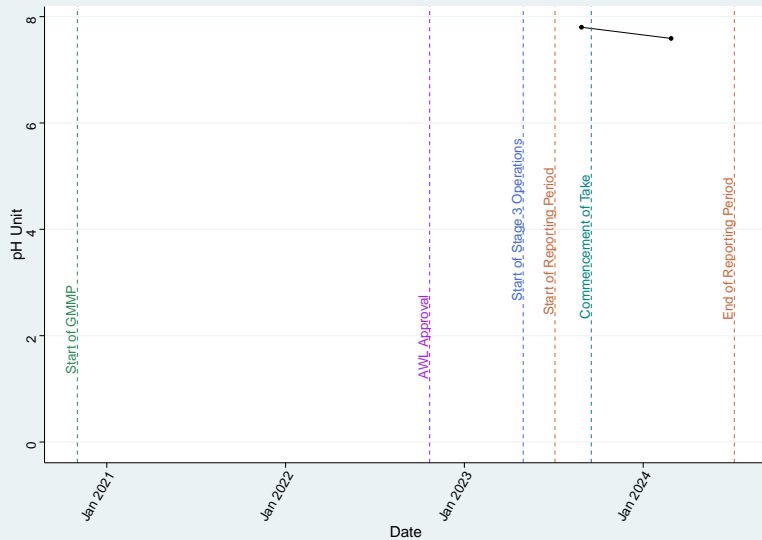
Bore 109PR (Main Range Volcanics) – Total_N

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



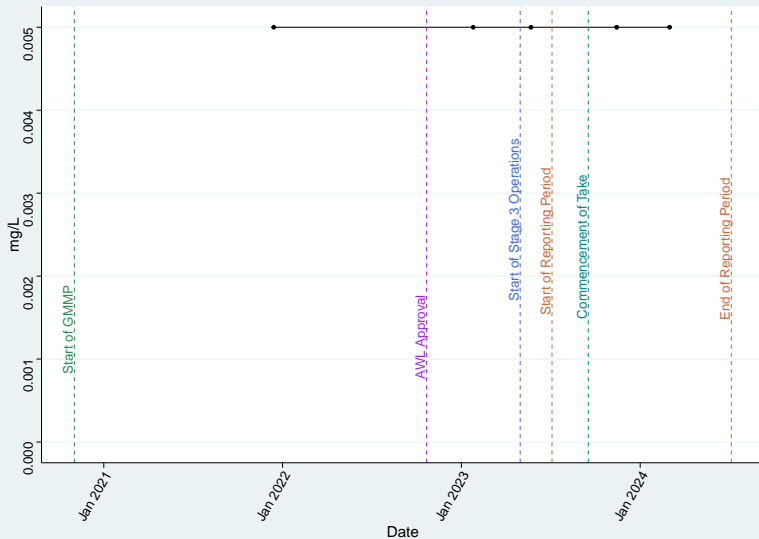
Bore 109PR (Main Range Volcanics) – pH_Lab

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



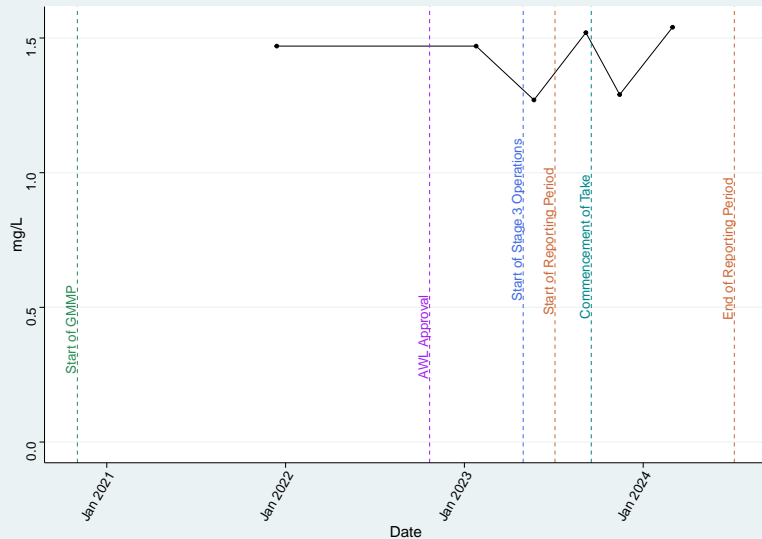
Bore 111PGC LowerR (Acland Coal Sequence) – Al_diss

Mann Kendall Trend Test | τ = 1 | p-value = 1 | No trend



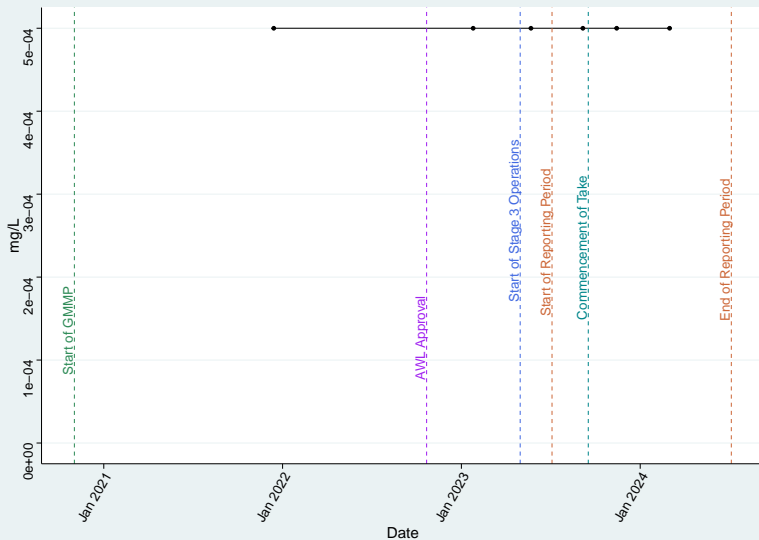
Bore 111PGC LowerR (Acland Coal Sequence) – Ammonia as N

Mann Kendall Trend Test | τ = 0.276 | p-value = 0.566 | No trend



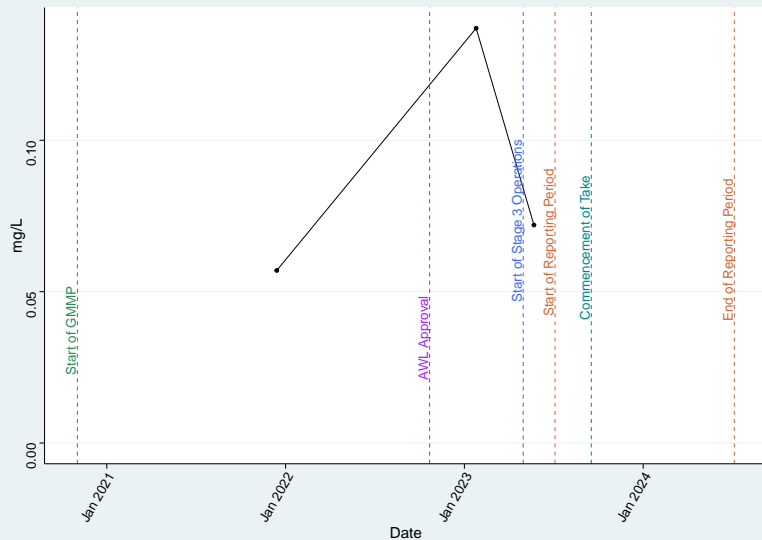
Bore 111PGC LowerR (Acland Coal Sequence) – As_diss

Mann Kendall Trend Test | τ = 1 | p-value = 1 | No trend

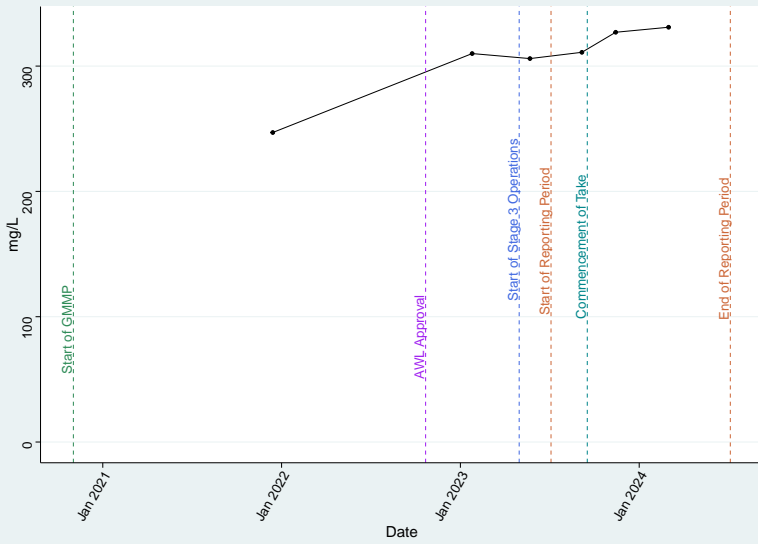


Bore 111PGC LowerR (Acland Coal Sequence) – Ba_diss

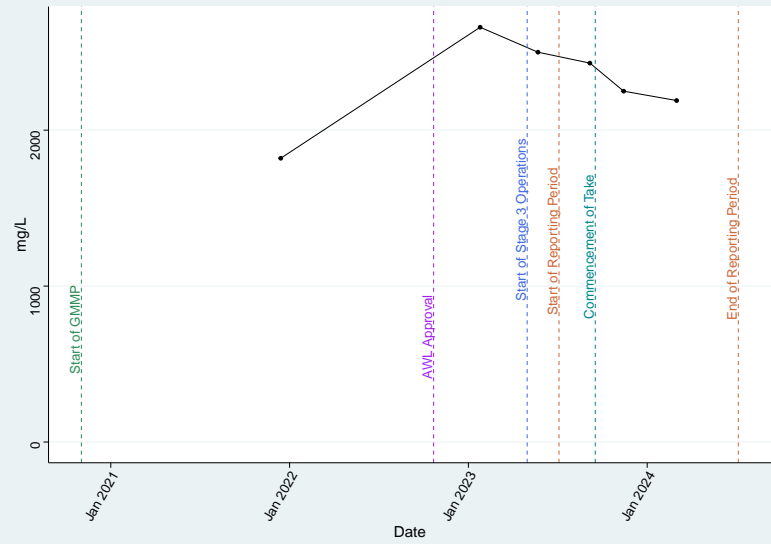
Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



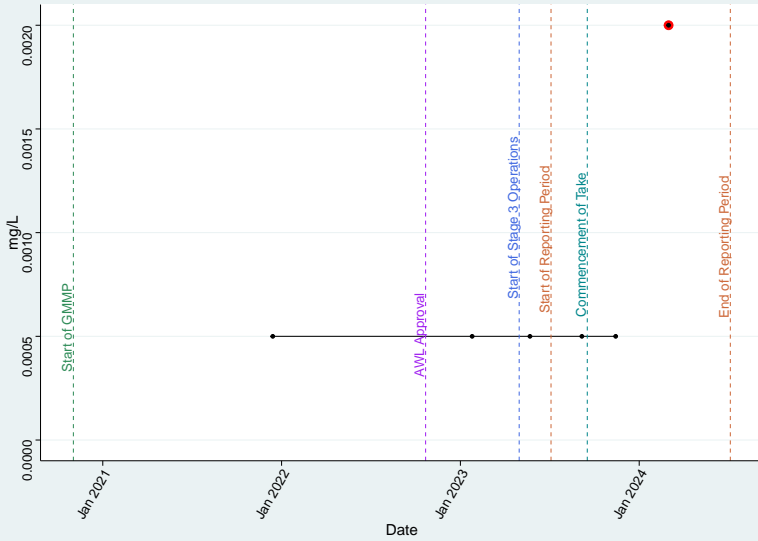
Bore 111PGC LowerR (Acland Coal Sequence) – Ca
 Mann Kendall Trend Test | $\tau = 0.867$ | $p\text{-value} = 0.0242$ | Positive trend



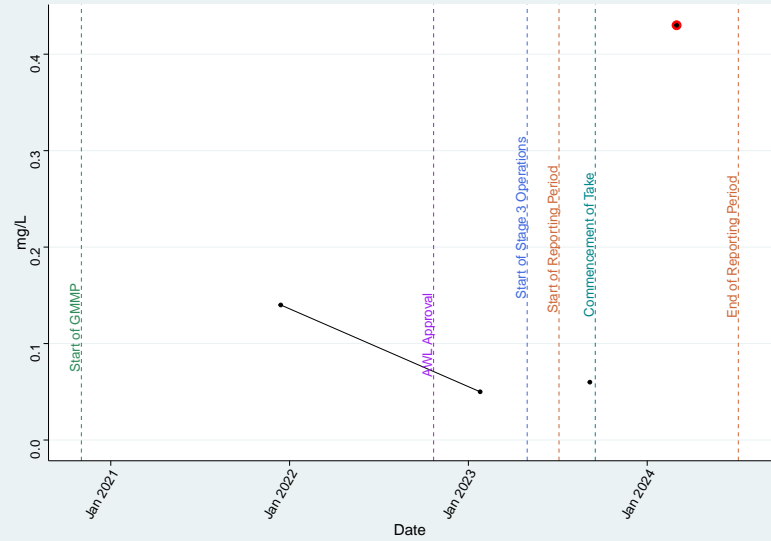
Bore 111PGC LowerR (Acland Coal Sequence) – Cl
 Mann Kendall Trend Test | $\tau = -0.333$ | $p\text{-value} = 0.452$ | No trend



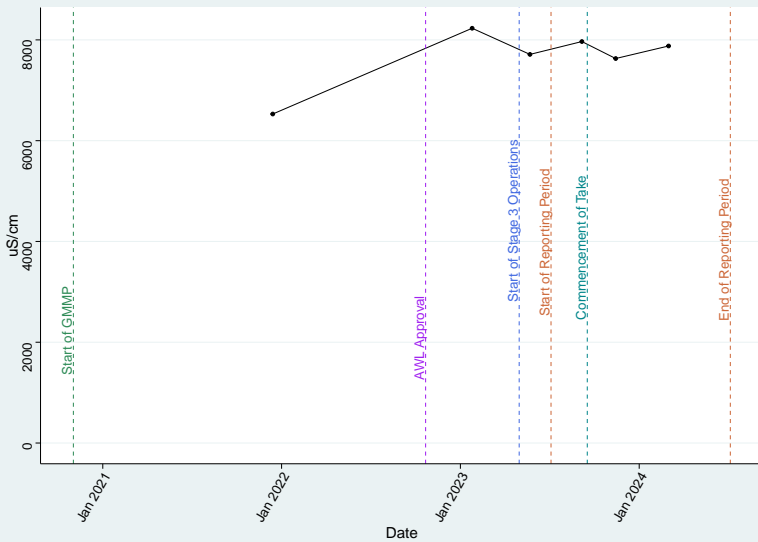
Bore 111PGC LowerR (Acland Coal Sequence) – Cu_diss
 Mann Kendall Trend Test | $\tau = 0.577$ | $p\text{-value} = 0.242$ | No trend



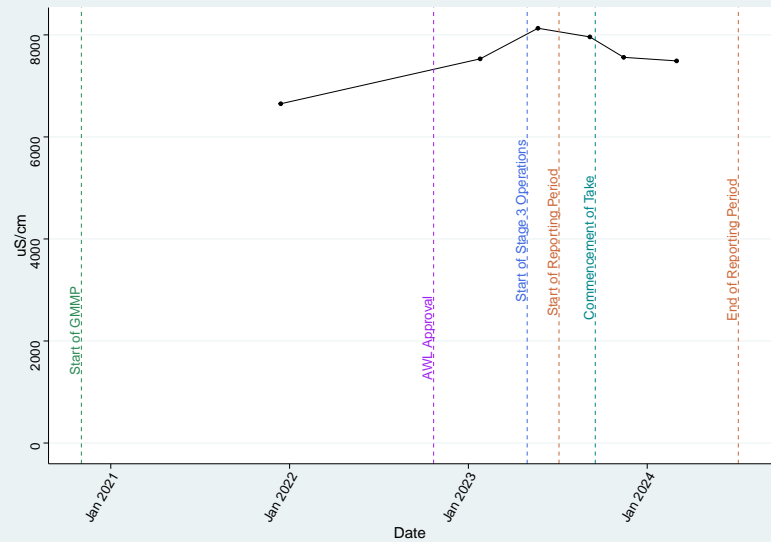
Bore 111PGC LowerR (Acland Coal Sequence) – DO_Field
 Mann Kendall Trend Test | $\tau = 0.2$ | $p\text{-value} = 0.806$ | No trend



Bore 111PGC LowerR (Acland Coal Sequence) – EC_Field
 Mann Kendall Trend Test | $\tau = 0.0667$ | $p\text{-value} = 1$ | No trend

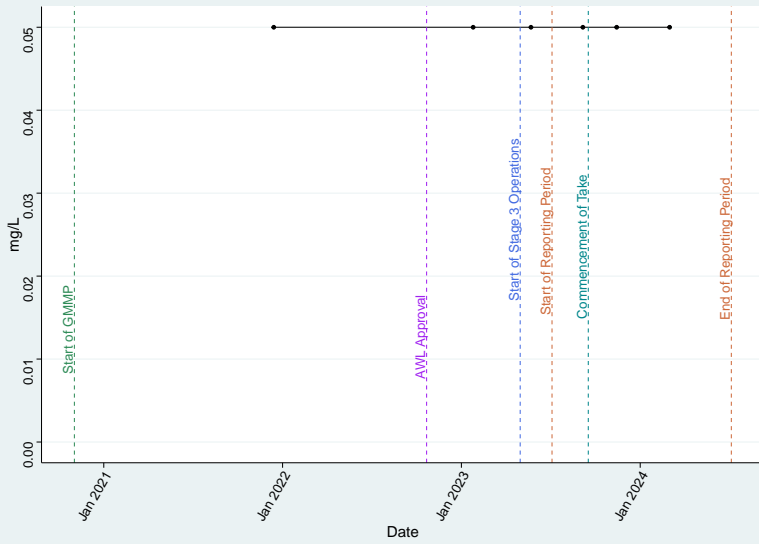


Bore 111PGC LowerR (Acland Coal Sequence) – EC_Lab
 Mann Kendall Trend Test | $\tau = 0.0667$ | $p\text{-value} = 1$ | No trend



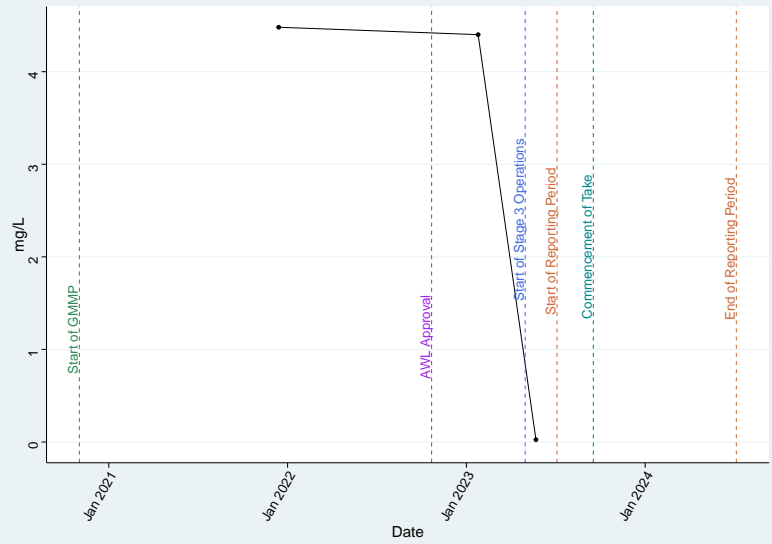
Bore 111PGC LowerR (Acland Coal Sequence) – F

Mann Kendall Trend Test | $\tau = 1$ | p-value = 1 | No trend



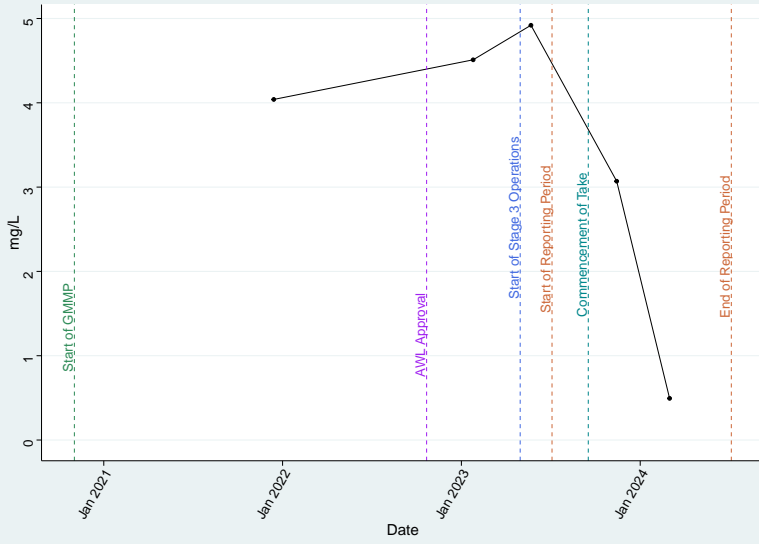
Bore 111PGC LowerR (Acland Coal Sequence) – Fe2

Mann Kendall Trend Test | $\tau =$ Not enough data | p-value = Not enough data | Not evaluated



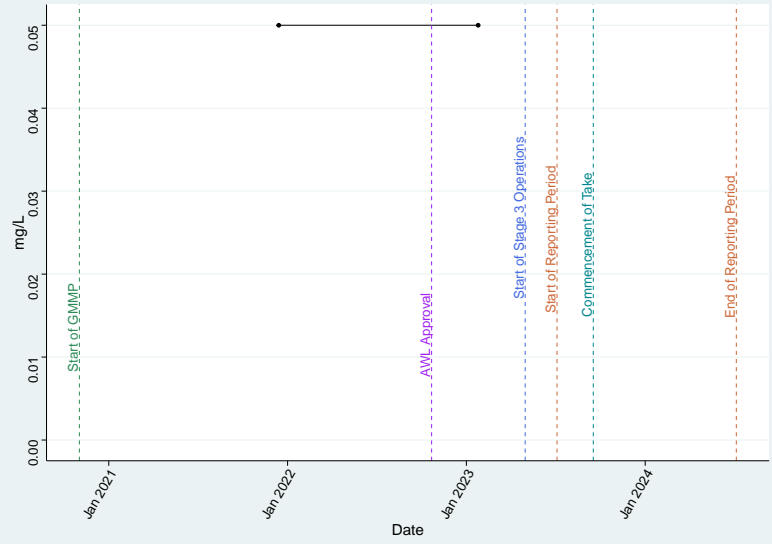
Bore 111PGC LowerR (Acland Coal Sequence) – Fe_diss

Mann Kendall Trend Test | $\tau = -0.4$ | p-value = 0.462 | No trend



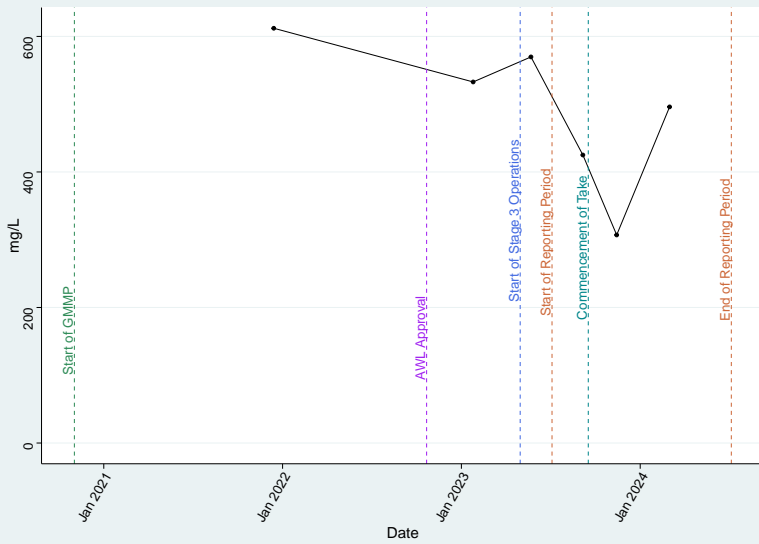
Bore 111PGC LowerR (Acland Coal Sequence) – H2S

Mann Kendall Trend Test | $\tau =$ Not enough data | p-value = Not enough data | Not evaluated



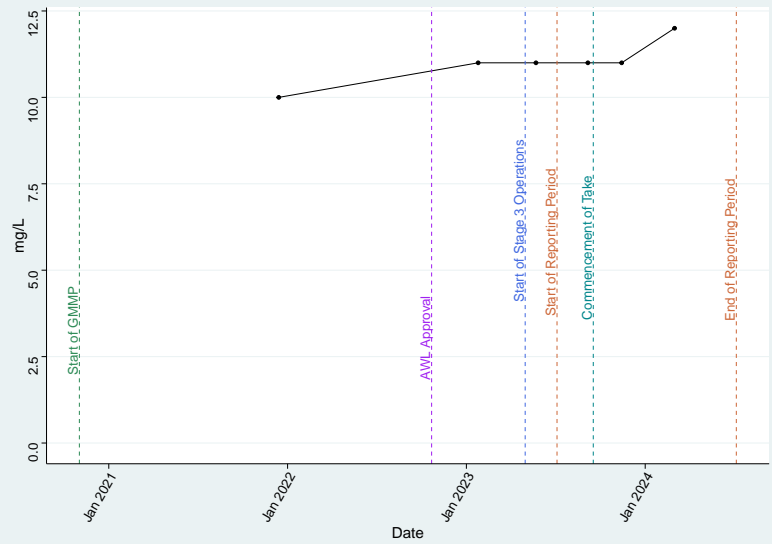
Bore 111PGC LowerR (Acland Coal Sequence) – HCO3

Mann Kendall Trend Test | $\tau = -0.6$ | p-value = 0.133 | No trend

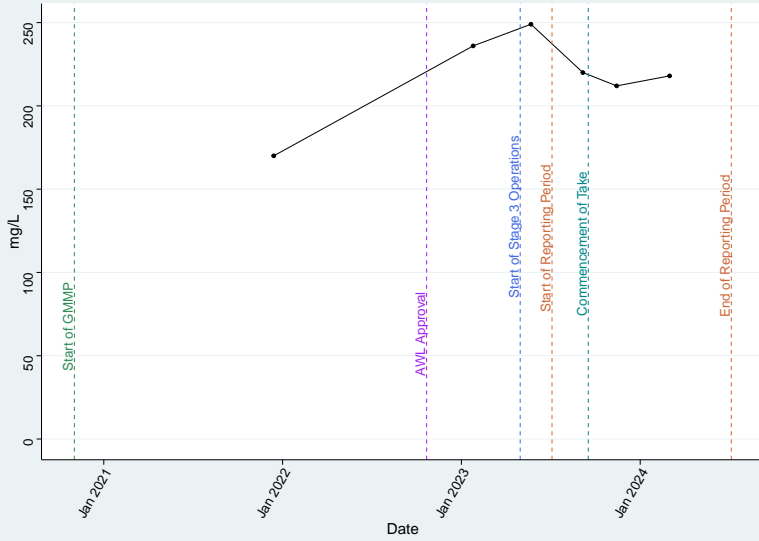


Bore 111PGC LowerR (Acland Coal Sequence) – K

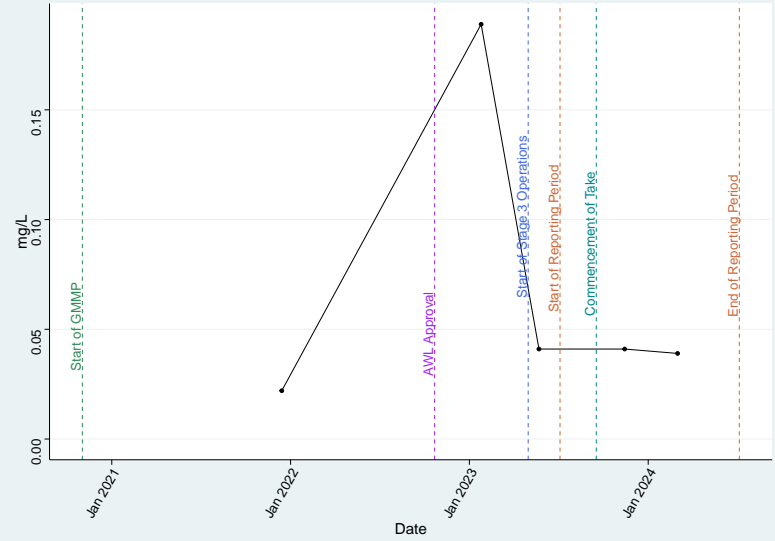
Mann Kendall Trend Test | $\tau = 0.775$ | p-value = 0.0712 | No trend



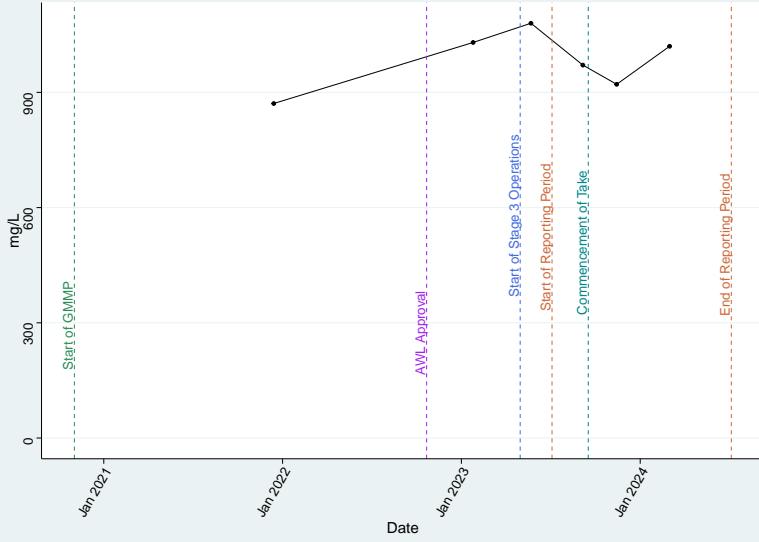
Bore 111PGC LowerR (Acland Coal Sequence) – Mg
 Mann Kendall Trend Test | $\tau = -0.0667$ | $p\text{-value} = 1$ | No trend



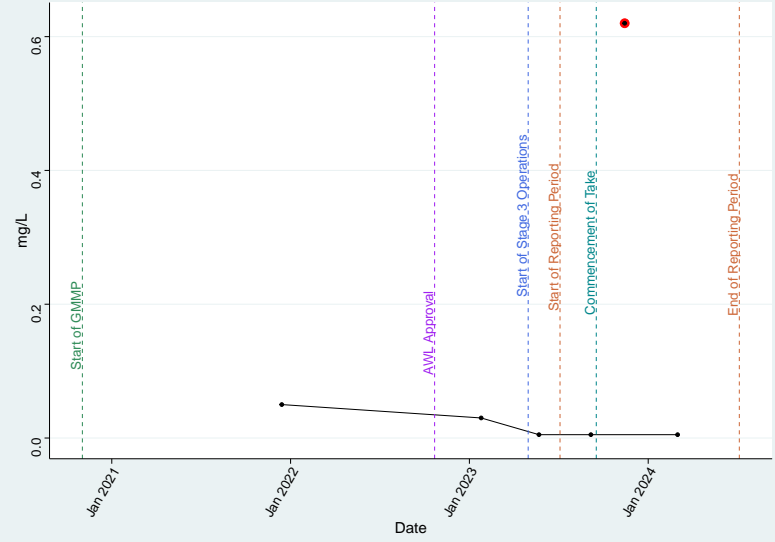
Bore 111PGC LowerR (Acland Coal Sequence) – Mn_diss
 Mann Kendall Trend Test | $\tau = -0.105$ | $p\text{-value} = 1$ | No trend



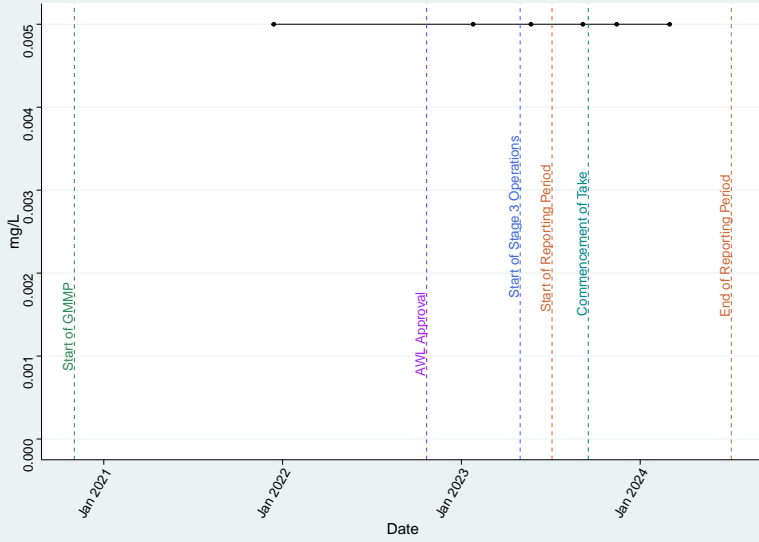
Bore 111PGC LowerR (Acland Coal Sequence) – Na
 Mann Kendall Trend Test | $\tau = 0.0667$ | $p\text{-value} = 1$ | No trend



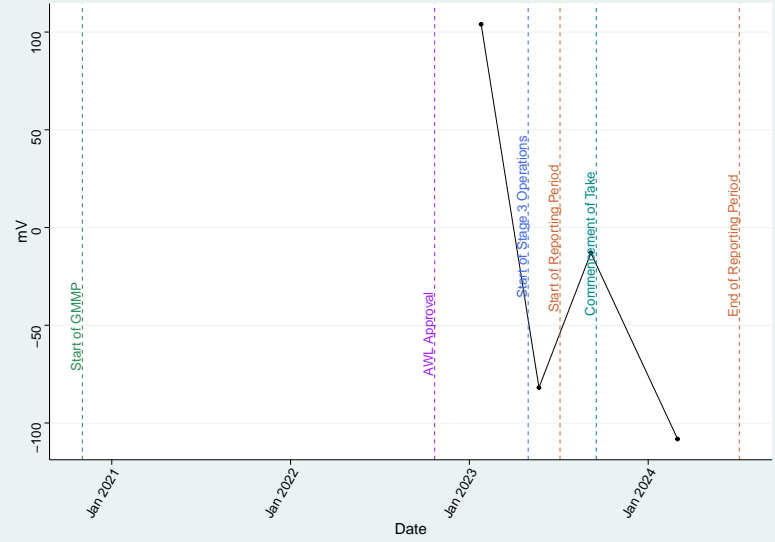
Bore 111PGC LowerR (Acland Coal Sequence) – Nitrate as N
 Mann Kendall Trend Test | $\tau = -0.298$ | $p\text{-value} = 0.546$ | No trend



Bore 111PGC LowerR (Acland Coal Sequence) – Nitrite as N
 Mann Kendall Trend Test | $\tau = 1$ | $p\text{-value} = 1$ | No trend

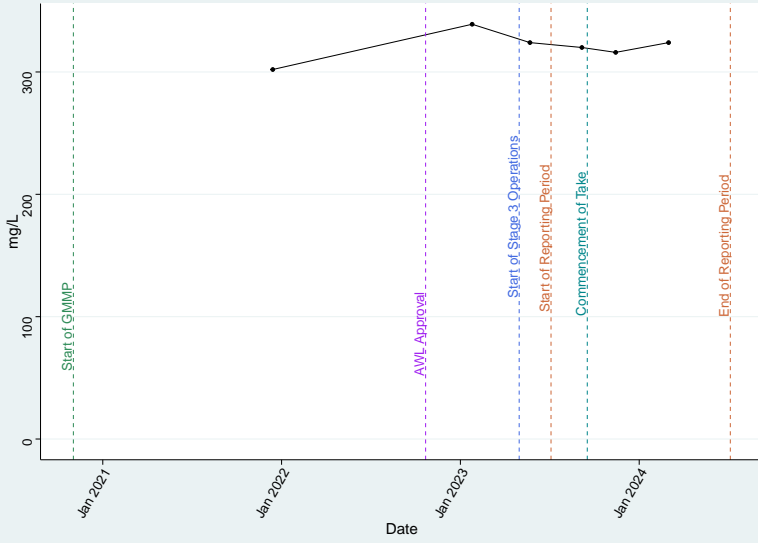


Bore 111PGC LowerR (Acland Coal Sequence) – Redox_Field
 Mann Kendall Trend Test | $\tau = -0.667$ | $p\text{-value} = 0.308$ | No trend



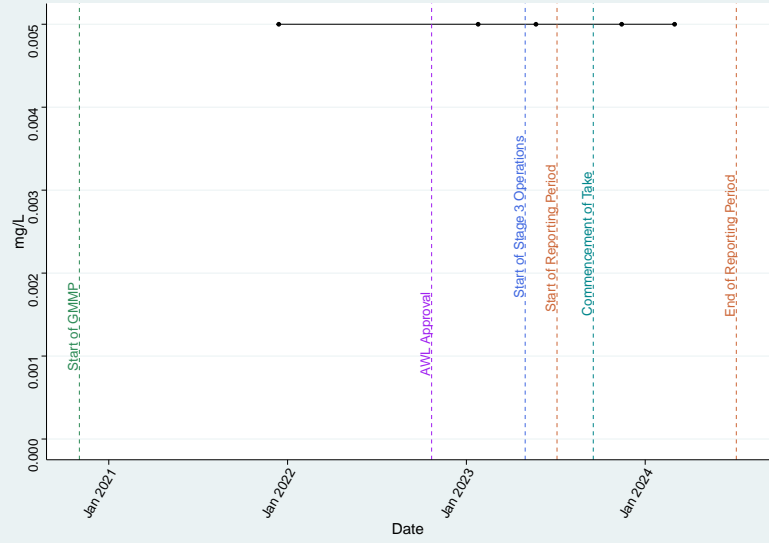
Bore 111PGC LowerR (Acland Coal Sequence) – SO4

Mann Kendall Trend Test | $\tau = 0$ | p-value = 1 | No trend



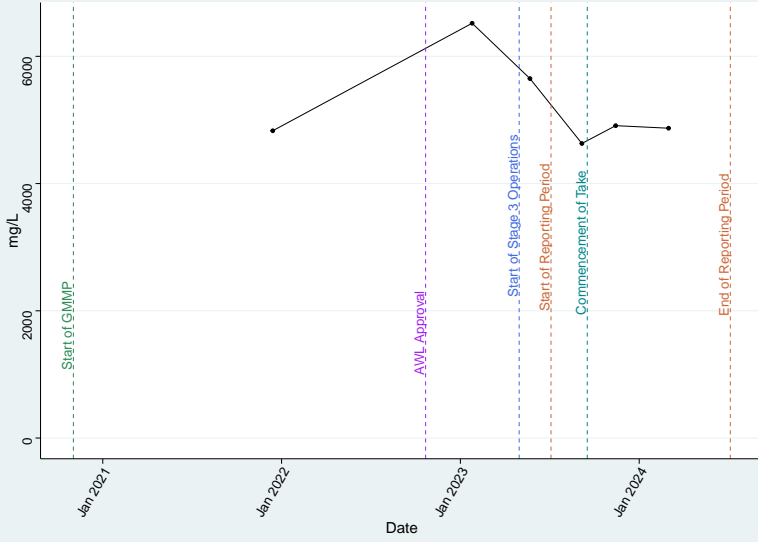
Bore 111PGC LowerR (Acland Coal Sequence) – Se_diss

Mann Kendall Trend Test | $\tau = 1$ | p-value = 1 | No trend



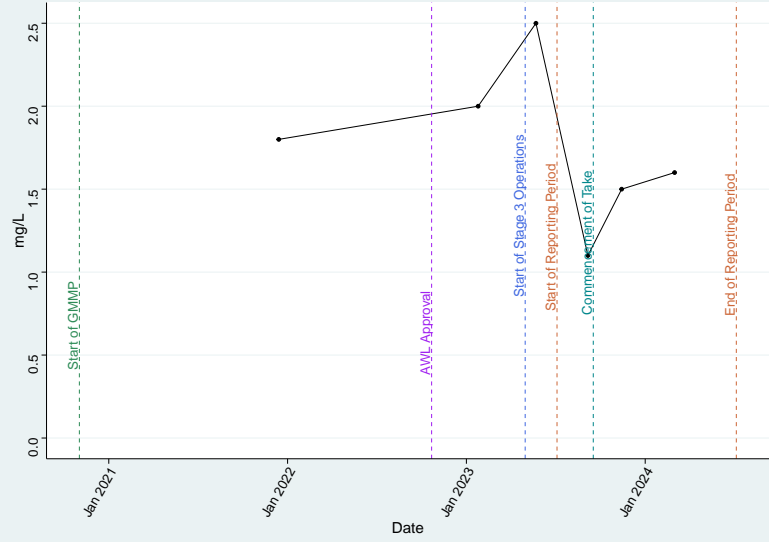
Bore 111PGC LowerR (Acland Coal Sequence) – TDS

Mann Kendall Trend Test | $\tau = -0.2$ | p-value = 0.707 | No trend



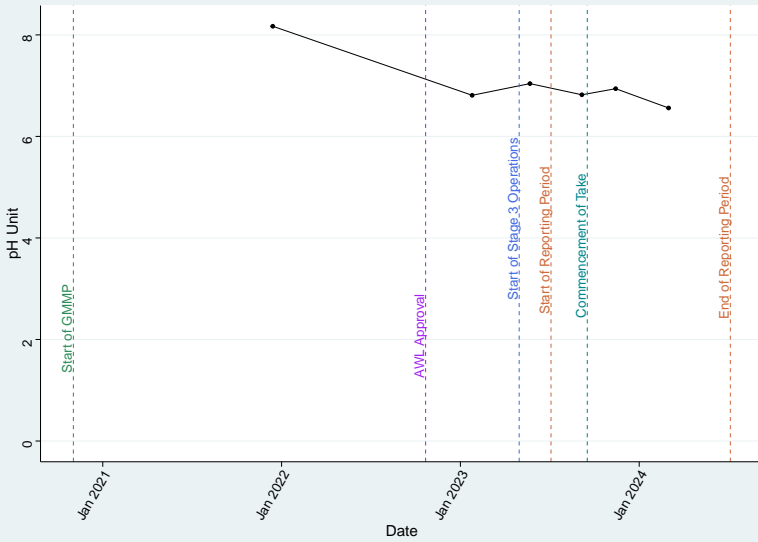
Bore 111PGC LowerR (Acland Coal Sequence) – TKN

Mann Kendall Trend Test | $\tau = -0.2$ | p-value = 0.707 | No trend



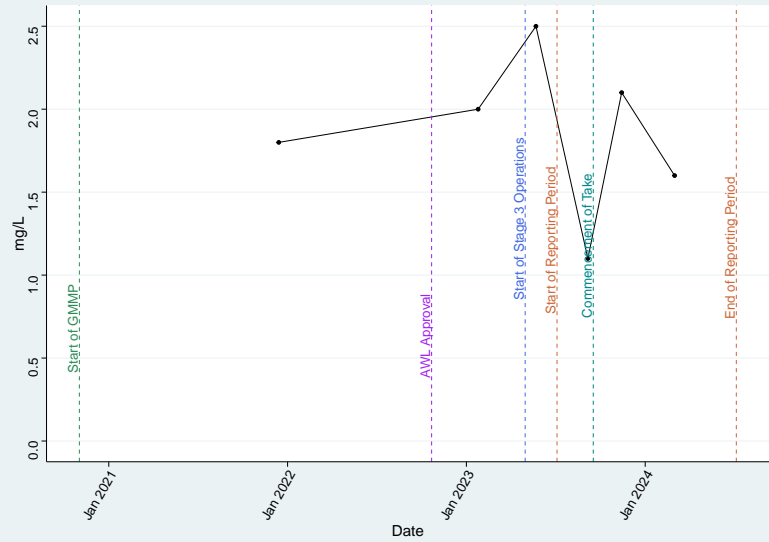
Bore 111PGC LowerR (Acland Coal Sequence) – pH_Field

Mann Kendall Trend Test | $\tau = -0.467$ | p-value = 0.26 | No trend



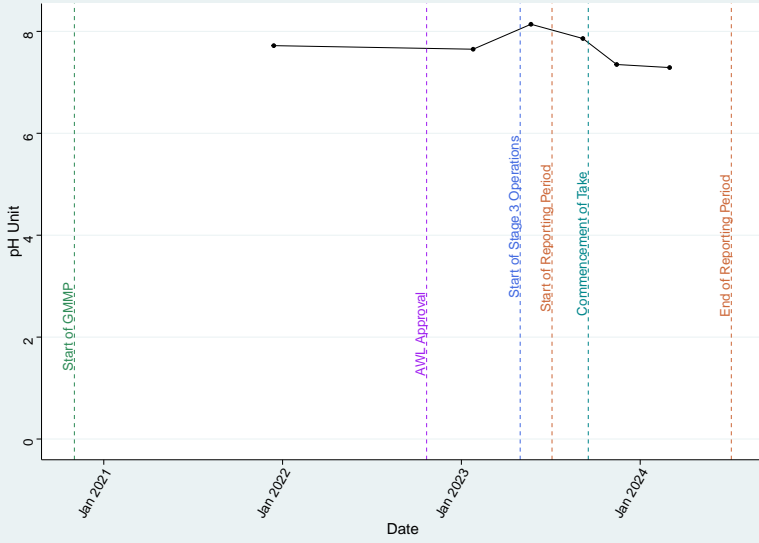
Bore 111PGC LowerR (Acland Coal Sequence) – Total_N

Mann Kendall Trend Test | $\tau = -0.0667$ | p-value = 1 | No trend



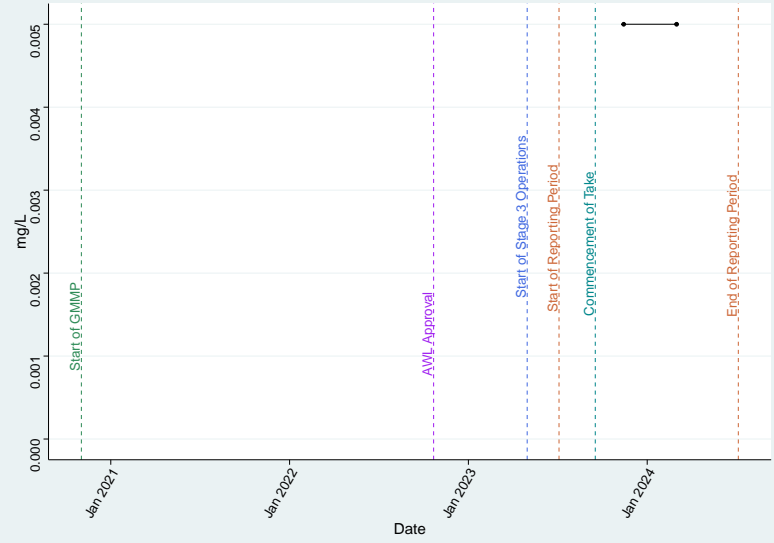
Bore 111PGC LowerR (Acland Coal Sequence) – pH_Lab

Mann Kendall Trend Test | $\tau = -0.467$ | $p\text{-value} = 0.26$ | No trend



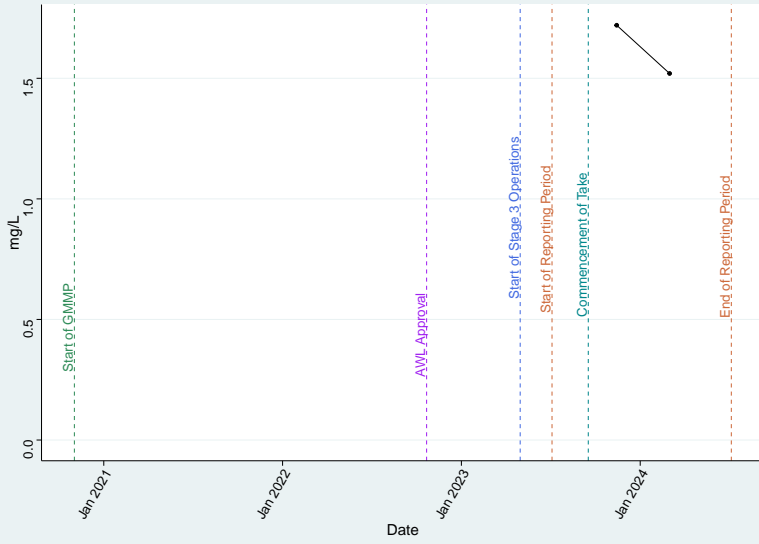
Bore 111PGC_UpperR (Acland Coal Sequence) – Al_diss

Mann Kendall Trend Test | $\tau =$ Not enough data | $p\text{-value} =$ Not enough data | Not evaluated



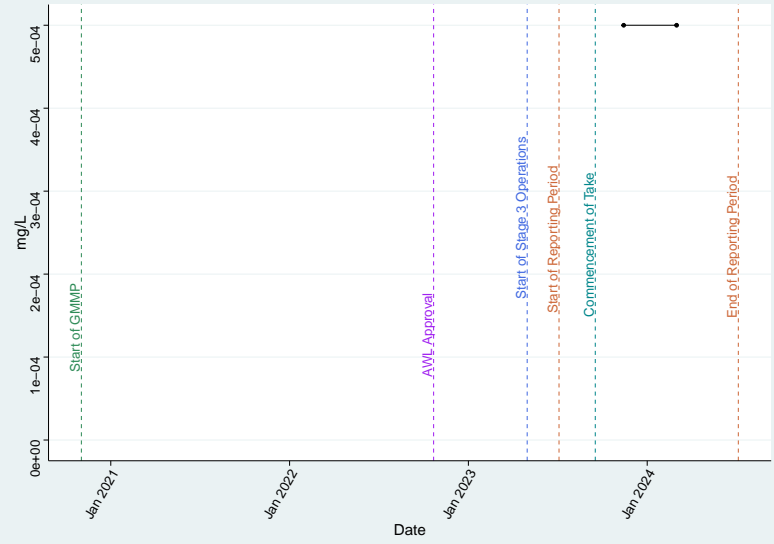
Bore 111PGC_UpperR (Acland Coal Sequence) – Ammonia as N

Mann Kendall Trend Test | $\tau =$ Not enough data | $p\text{-value} =$ Not enough data | Not evaluated



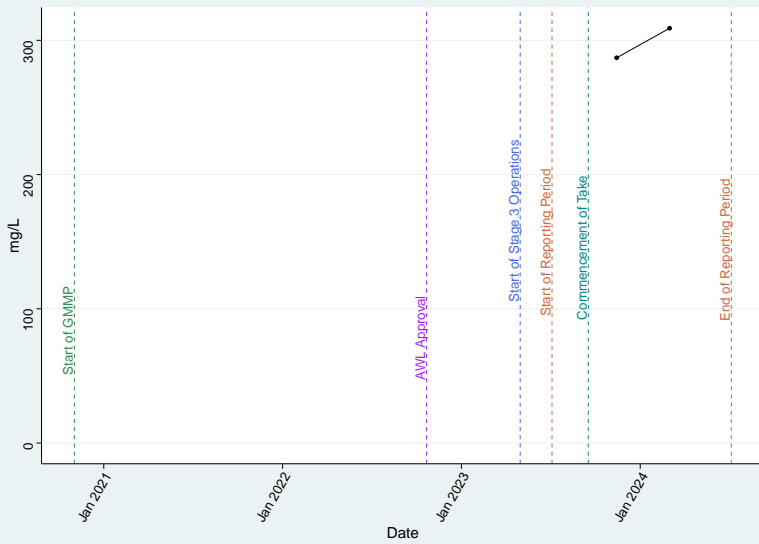
Bore 111PGC_UpperR (Acland Coal Sequence) – As_diss

Mann Kendall Trend Test | $\tau =$ Not enough data | $p\text{-value} =$ Not enough data | Not evaluated



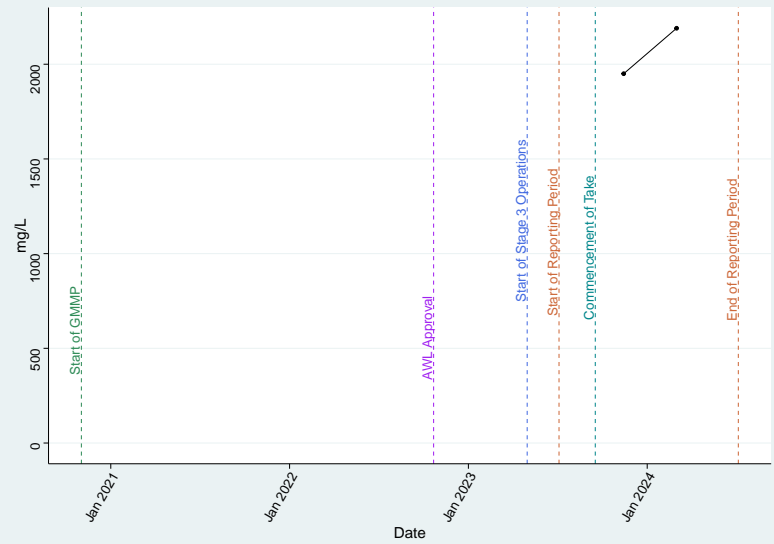
Bore 111PGC_UpperR (Acland Coal Sequence) – Ca

Mann Kendall Trend Test | $\tau =$ Not enough data | $p\text{-value} =$ Not enough data | Not evaluated



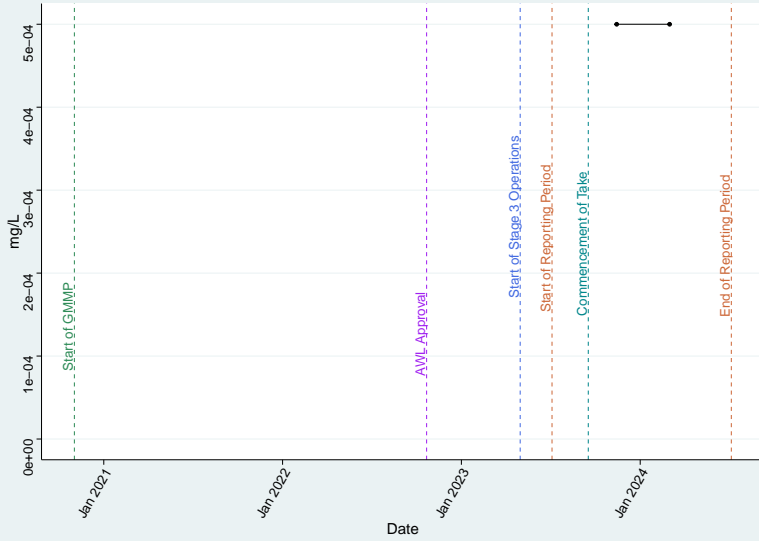
Bore 111PGC_UpperR (Acland Coal Sequence) – Cl

Mann Kendall Trend Test | $\tau =$ Not enough data | $p\text{-value} =$ Not enough data | Not evaluated



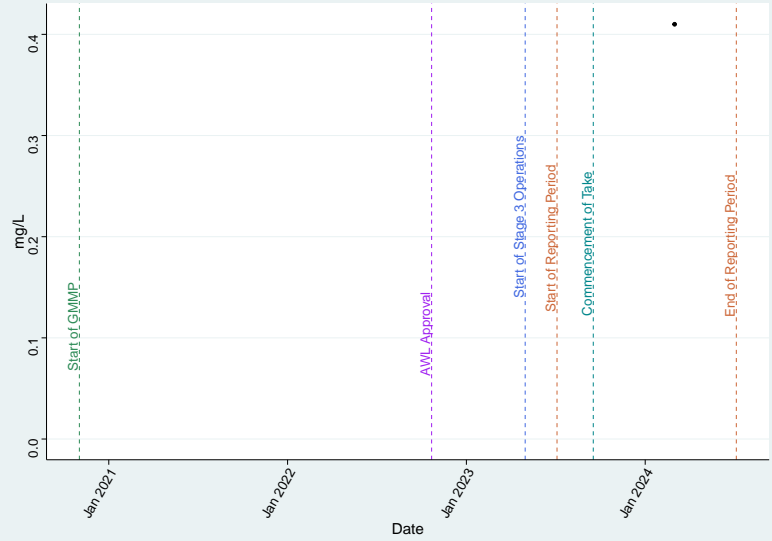
Bore 111PGC_UpperR (Acland Coal Sequence) – Cu_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



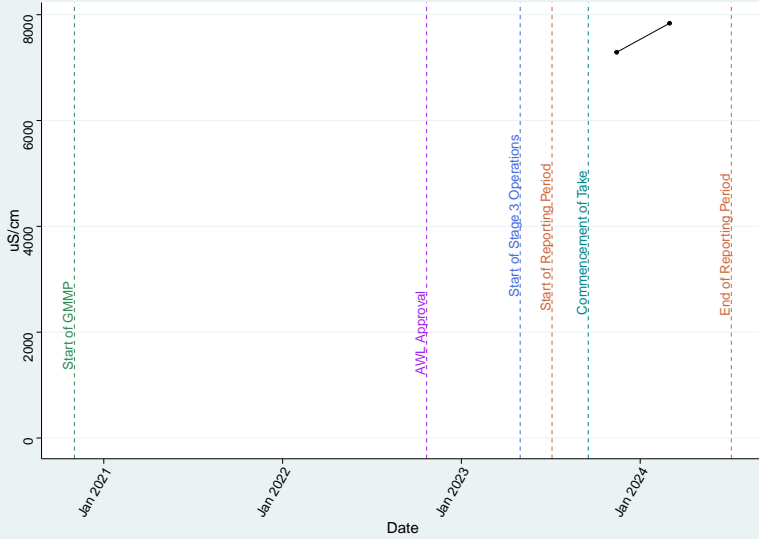
Bore 111PGC_UpperR (Acland Coal Sequence) – DO_Field

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



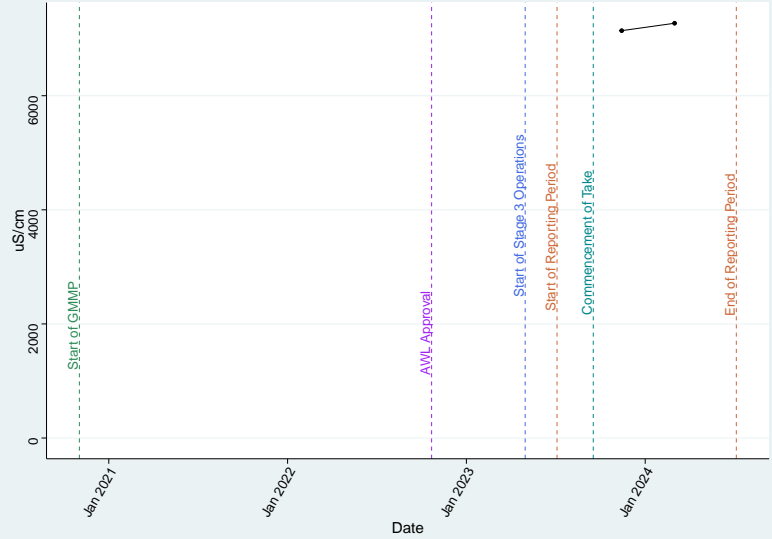
Bore 111PGC_UpperR (Acland Coal Sequence) – EC_Field

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



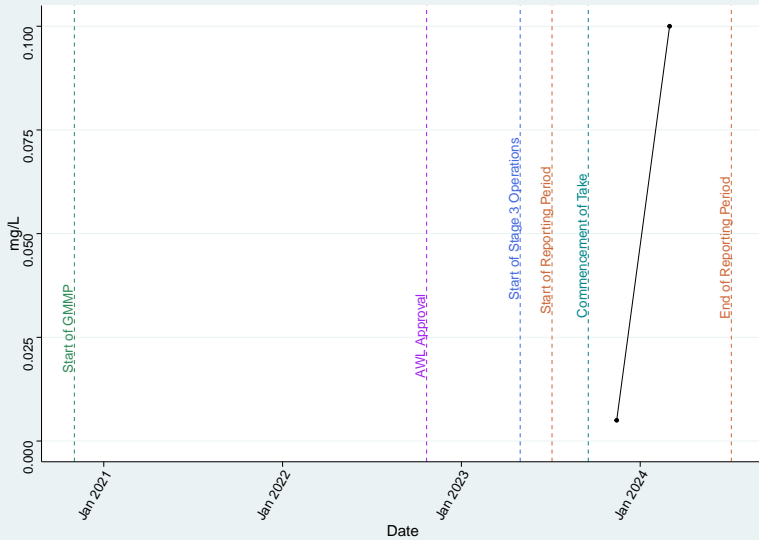
Bore 111PGC_UpperR (Acland Coal Sequence) – EC_Lab

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



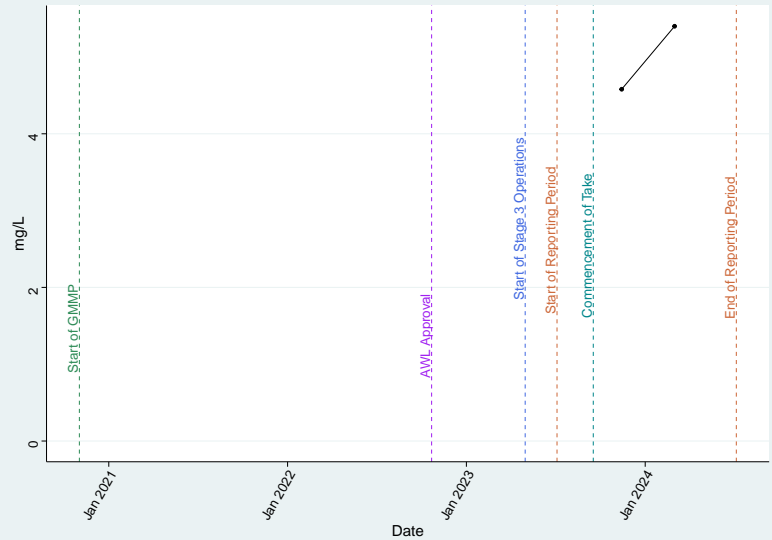
Bore 111PGC_UpperR (Acland Coal Sequence) – F

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



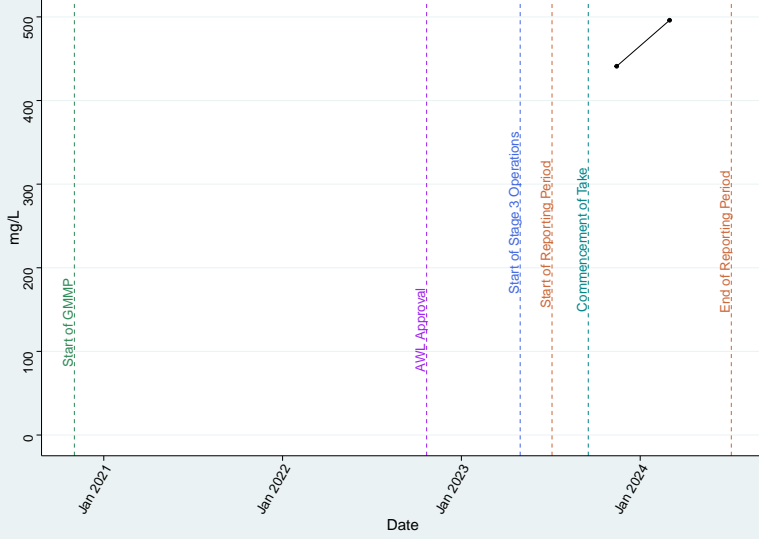
Bore 111PGC_UpperR (Acland Coal Sequence) – Fe_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



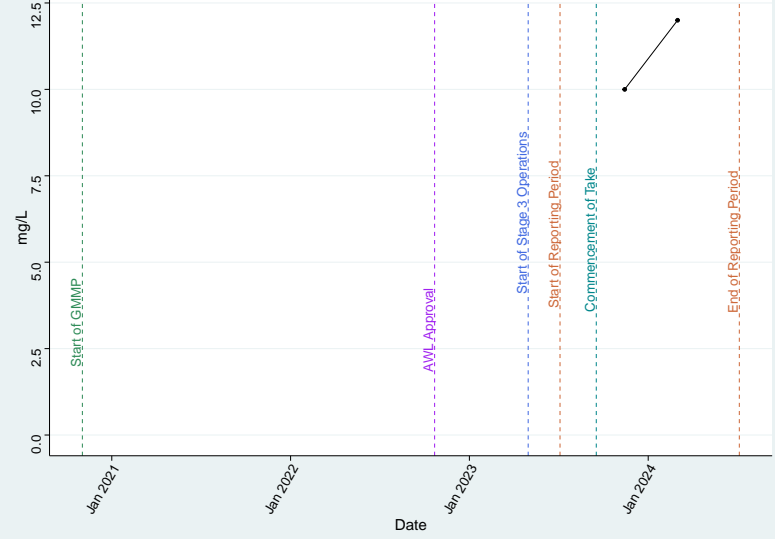
Bore 111PGC_UpperR (Acland Coal Sequence) – HCO3

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



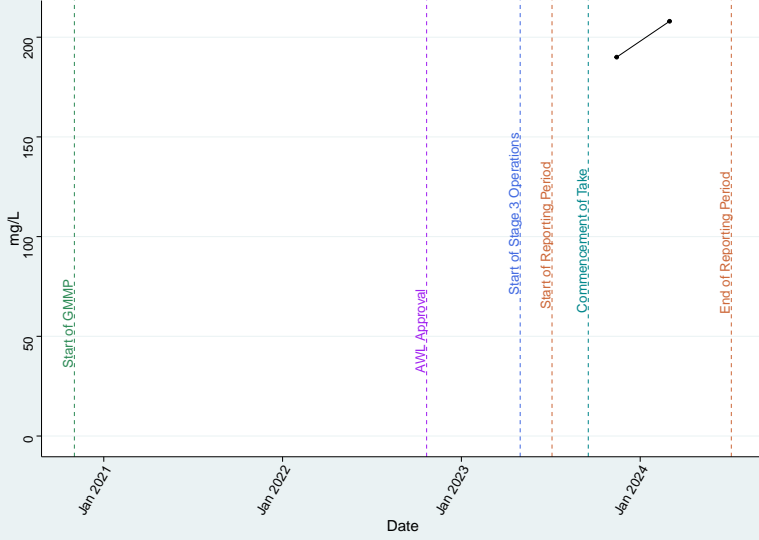
Bore 111PGC_UpperR (Acland Coal Sequence) – K

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



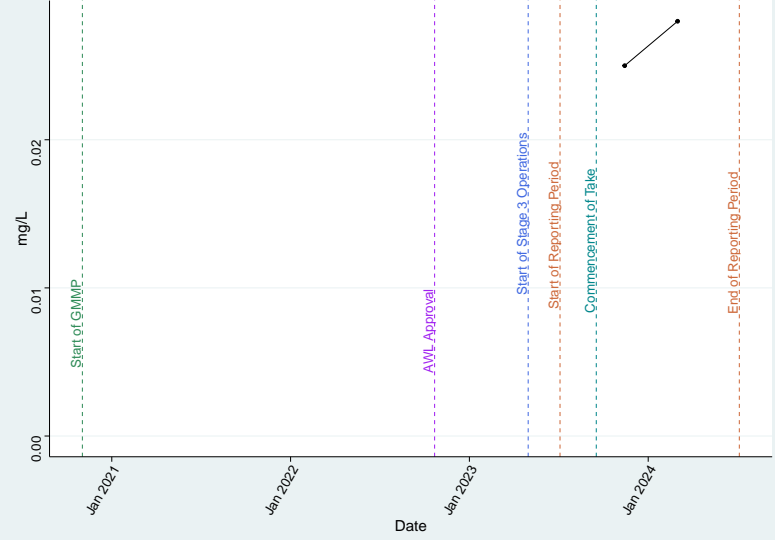
Bore 111PGC_UpperR (Acland Coal Sequence) – Mg

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



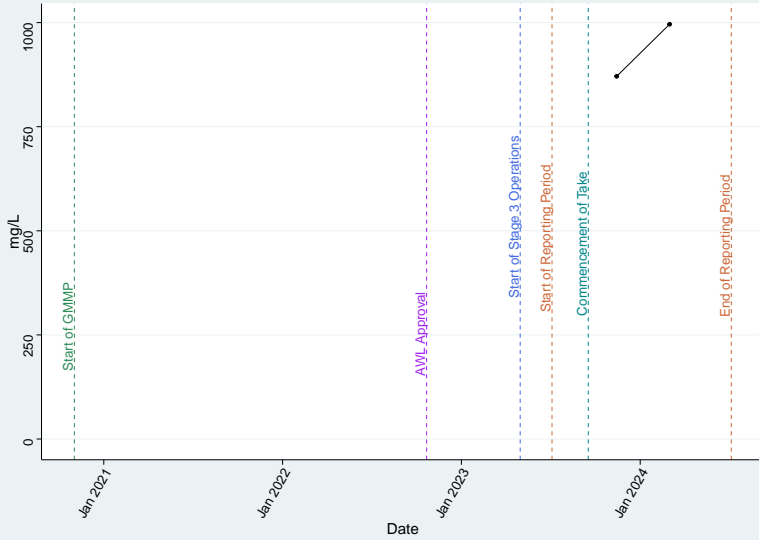
Bore 111PGC_UpperR (Acland Coal Sequence) – Mn_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



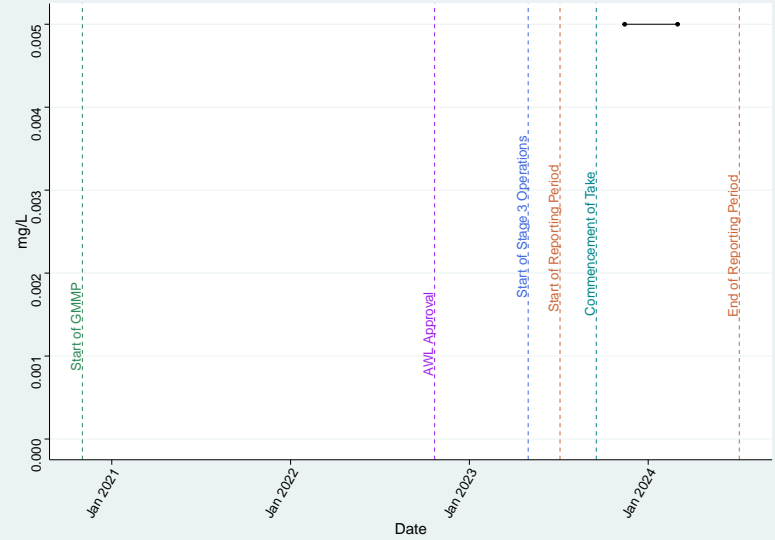
Bore 111PGC_UpperR (Acland Coal Sequence) – Na

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



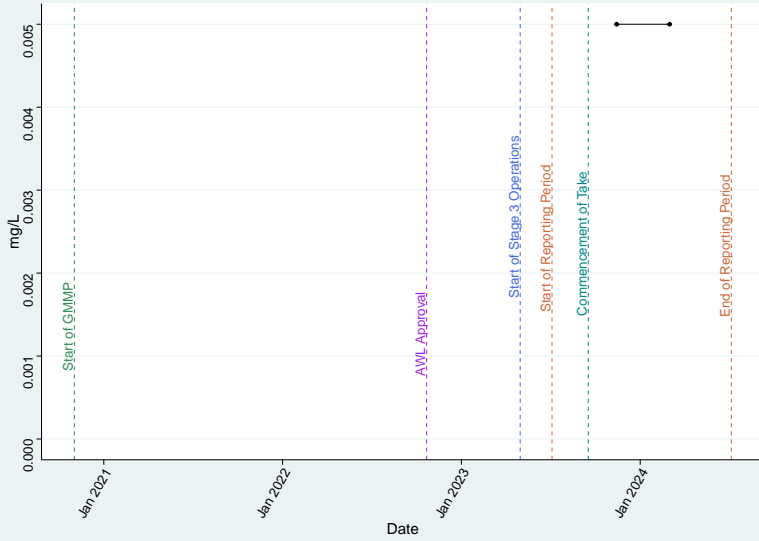
Bore 111PGC_UpperR (Acland Coal Sequence) – Nitrate as N

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



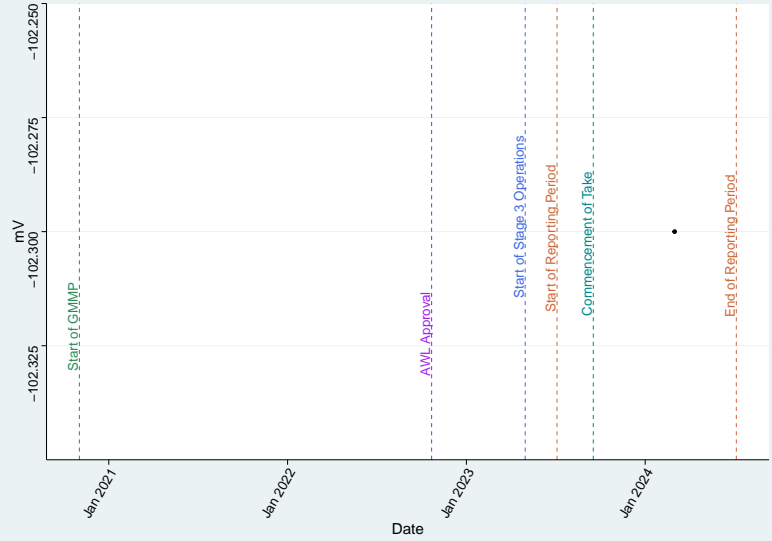
Bore 111PGC_UpperR (Acland Coal Sequence) – Nitrite as N

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



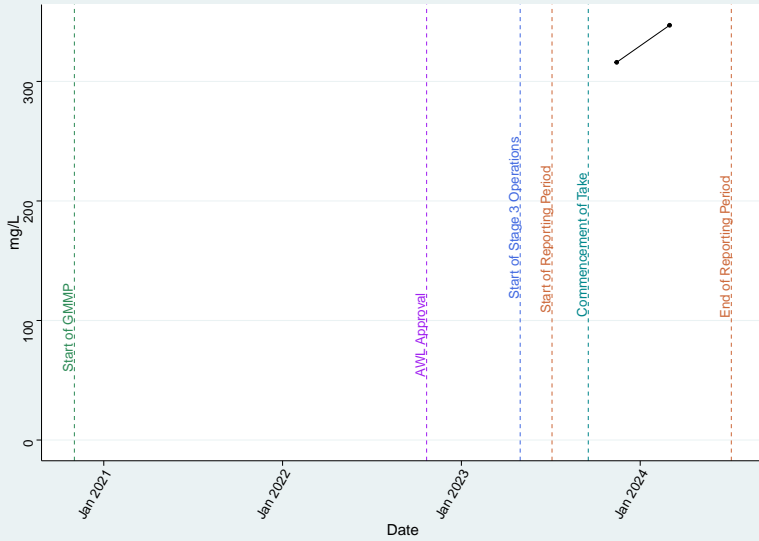
Bore 111PGC_UpperR (Acland Coal Sequence) – Redox_Field

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



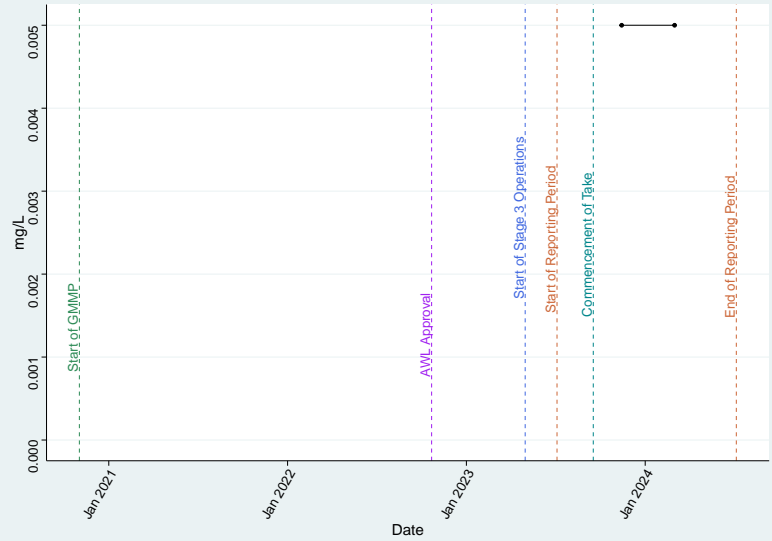
Bore 111PGC_UpperR (Acland Coal Sequence) – SO4

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



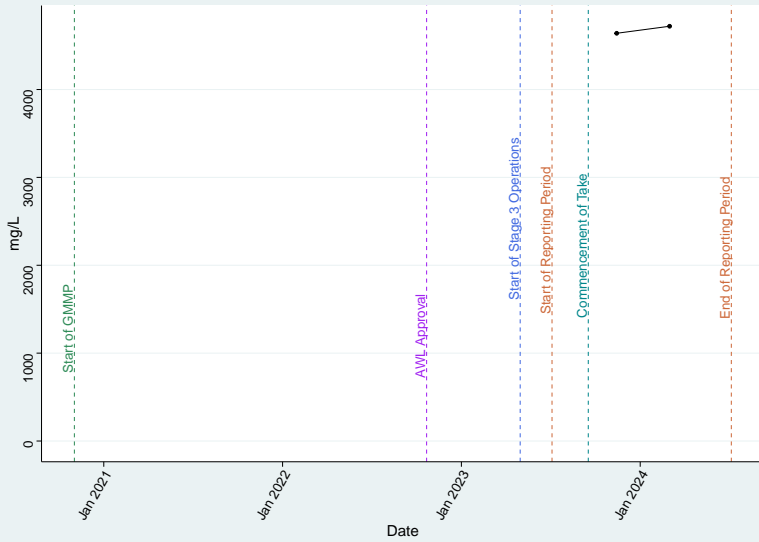
Bore 111PGC_UpperR (Acland Coal Sequence) – Se_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



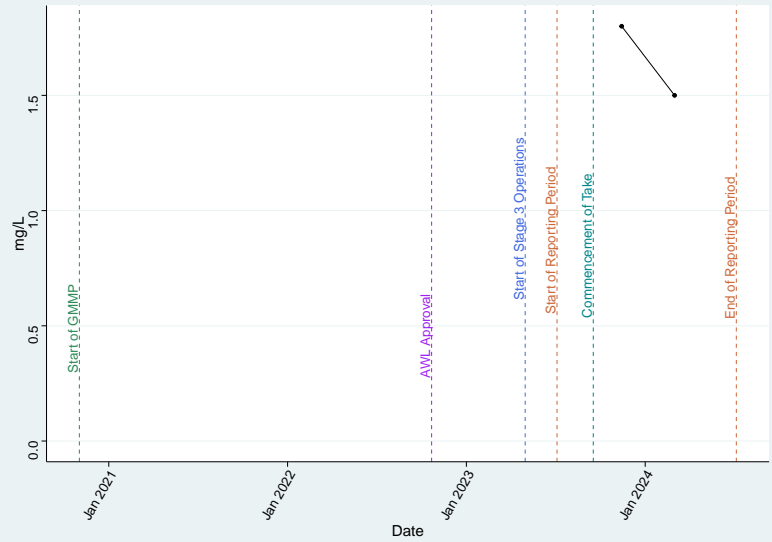
Bore 111PGC_UpperR (Acland Coal Sequence) – TDS

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



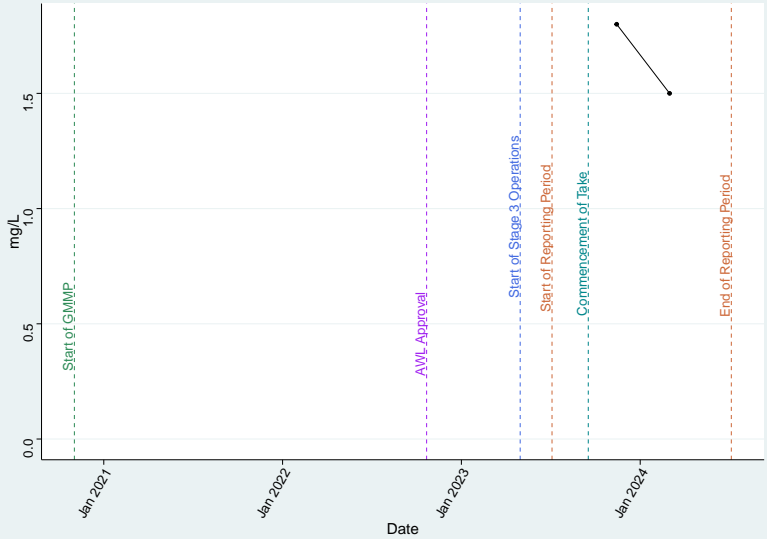
Bore 111PGC_UpperR (Acland Coal Sequence) – TKN

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



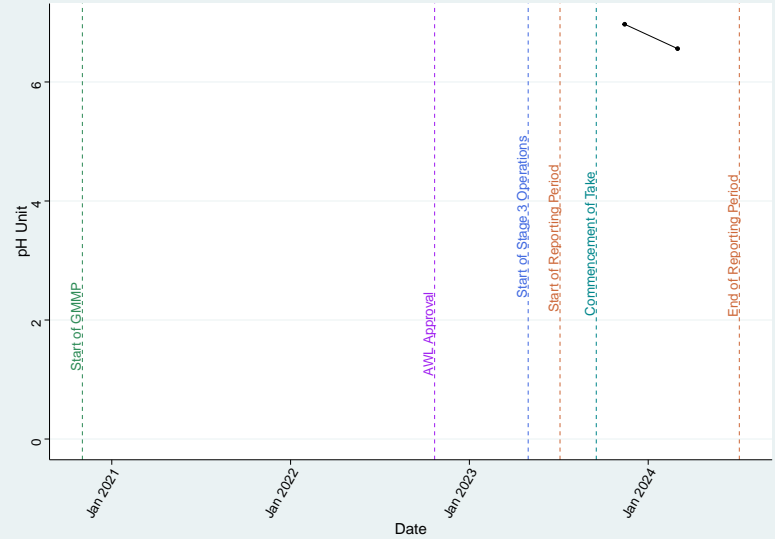
Bore 111PGC_UpperR (Acland Coal Sequence) – Total_N

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



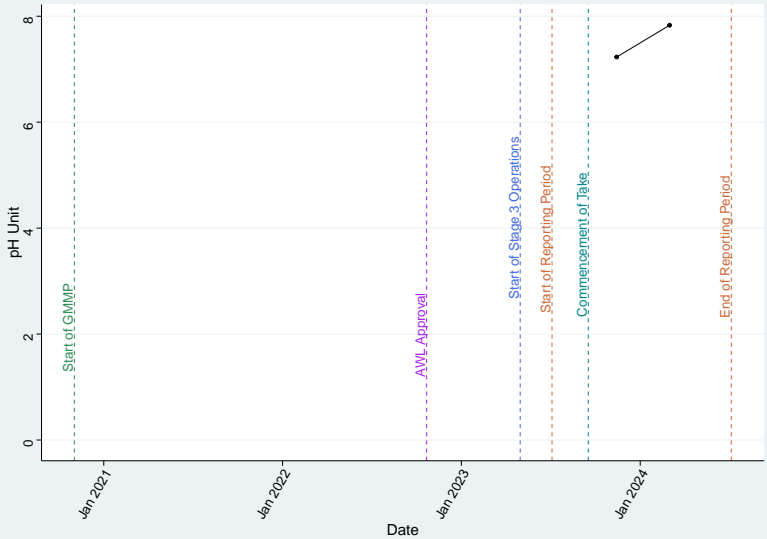
Bore 111PGC_UpperR (Acland Coal Sequence) – pH_Field

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



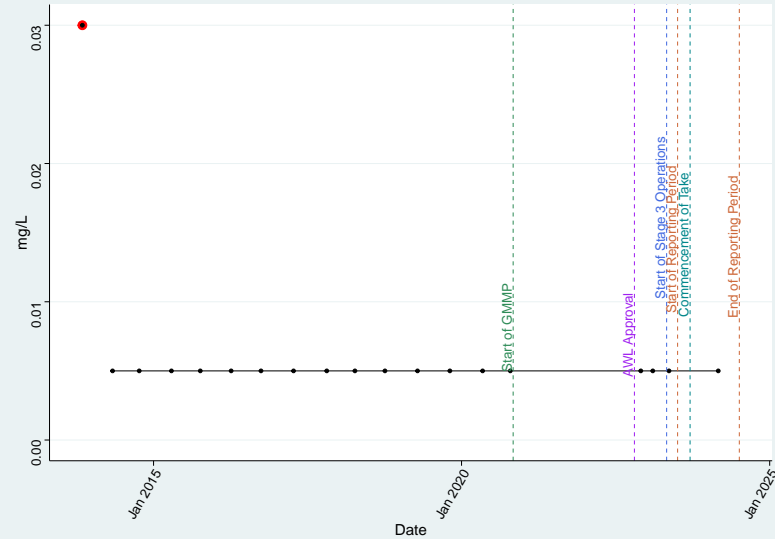
Bore 111PGC_UpperR (Acland Coal Sequence) – pH_Lab

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



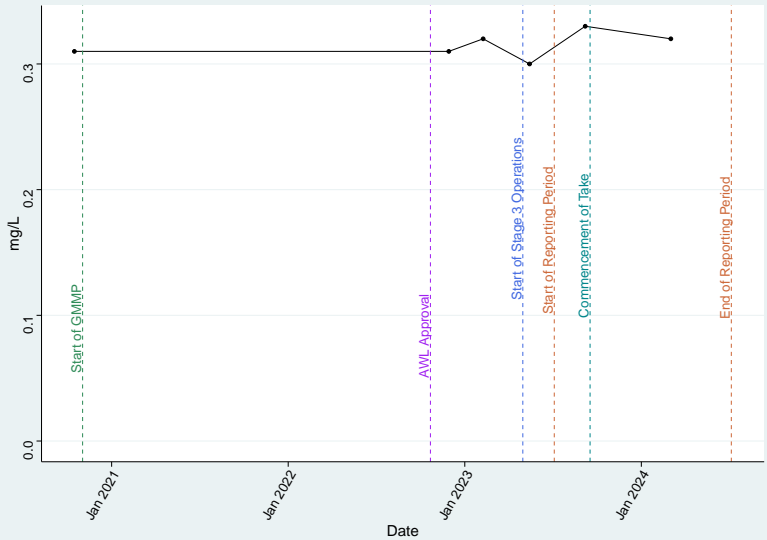
Bore 113PGCB (Acland Coal Sequence) – Al_diss

Mann Kendall Trend Test | τ = -0.324 | p-value = 0.121 | No trend



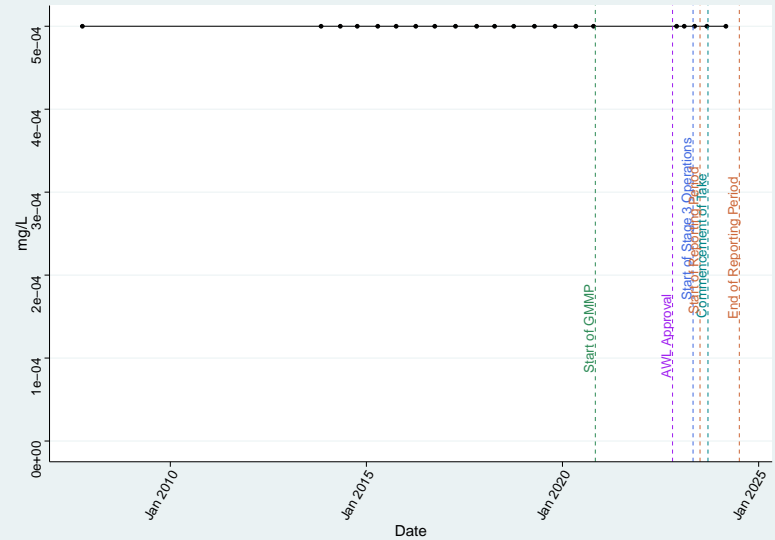
Bore 113PGCB (Acland Coal Sequence) – Ammonia as N

Mann Kendall Trend Test | τ = 0.358 | p-value = 0.436 | No trend

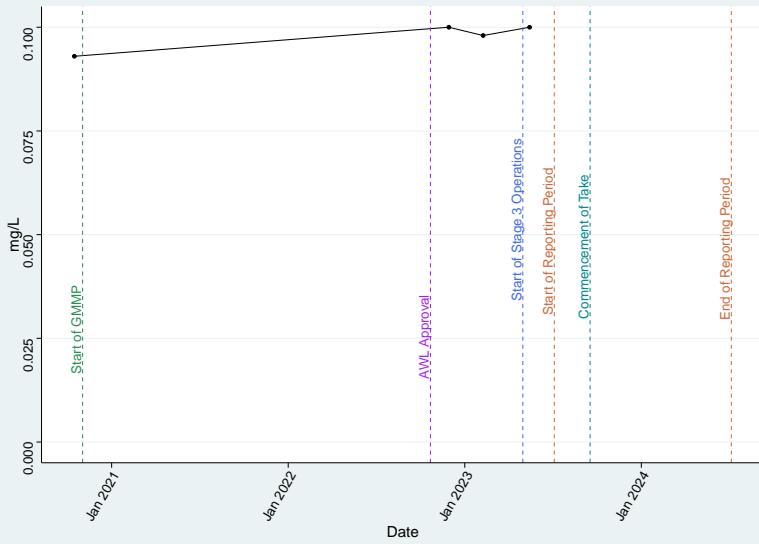


Bore 113PGCB (Acland Coal Sequence) – As_diss

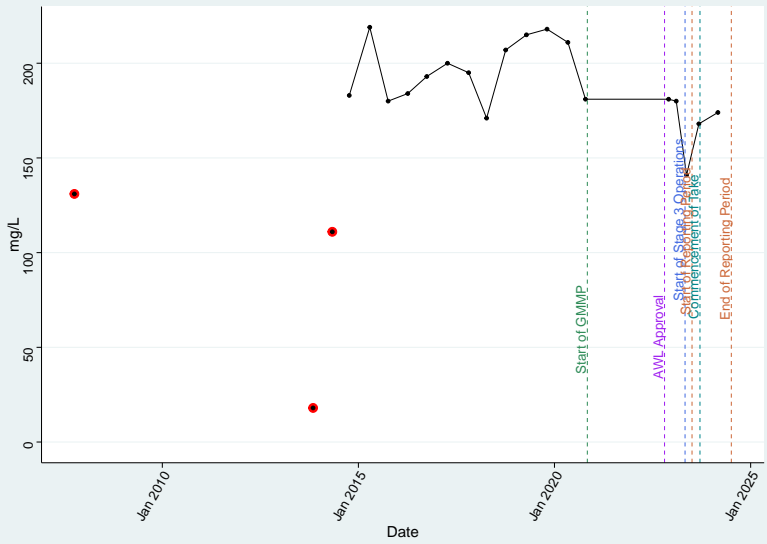
Mann Kendall Trend Test | τ = 1 | p-value = 1 | No trend



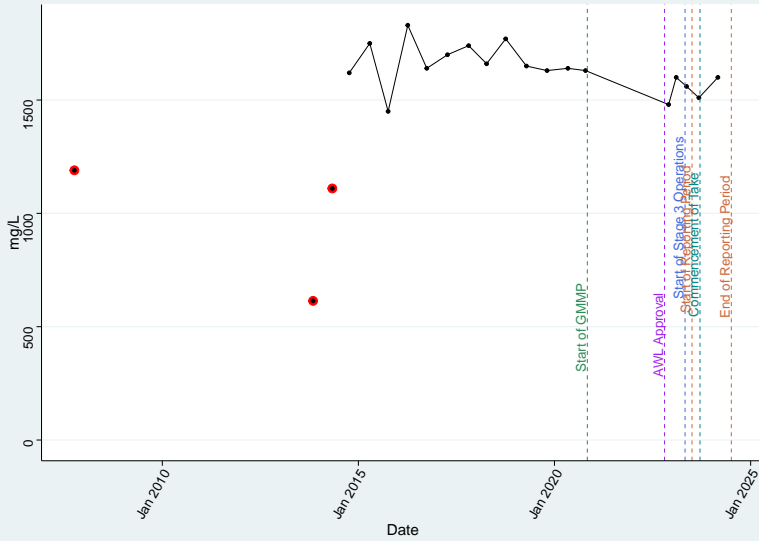
Bore 113PGCB (Acland Coal Sequence) – Ba_diss
Mann Kendall Trend Test | $\tau = 0.548$ | $p\text{-value} = 0.47$ | No trend



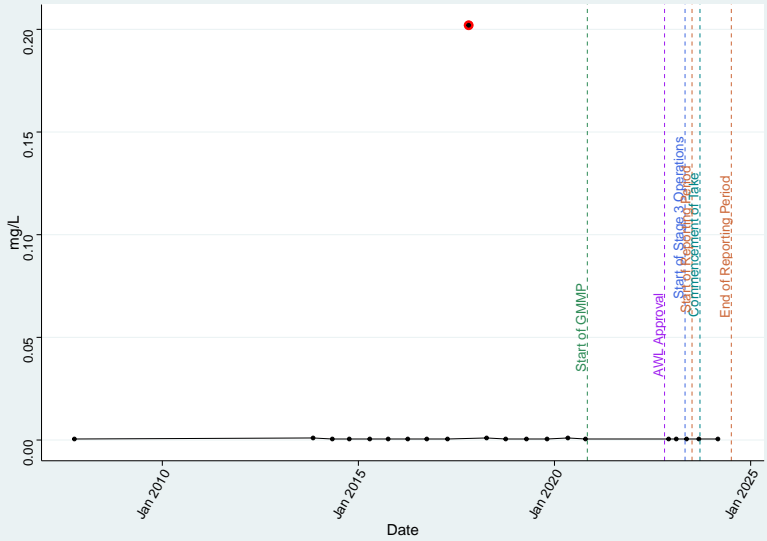
Bore 113PGCB (Acland Coal Sequence) – Ca
Mann Kendall Trend Test | $\tau = 0.0574$ | $p\text{-value} = 0.74$ | No trend



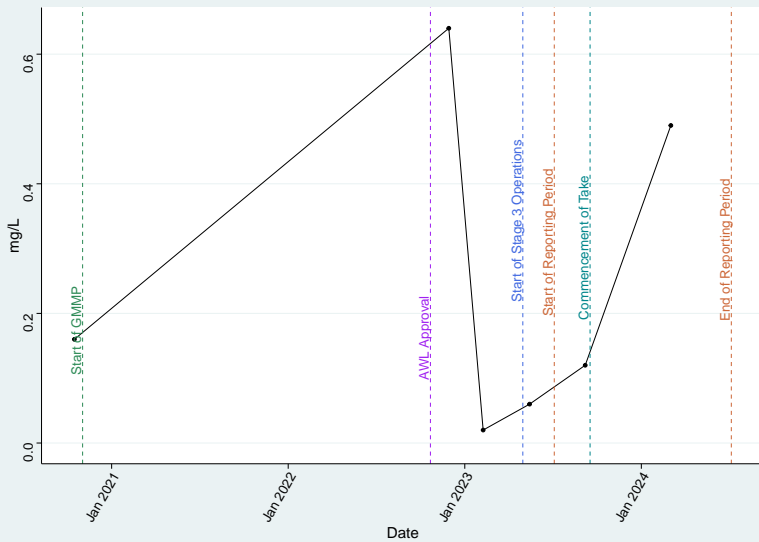
Bore 113PGCB (Acland Coal Sequence) – Cl
Mann Kendall Trend Test | $\tau = -0.0432$ | $p\text{-value} = 0.809$ | No trend



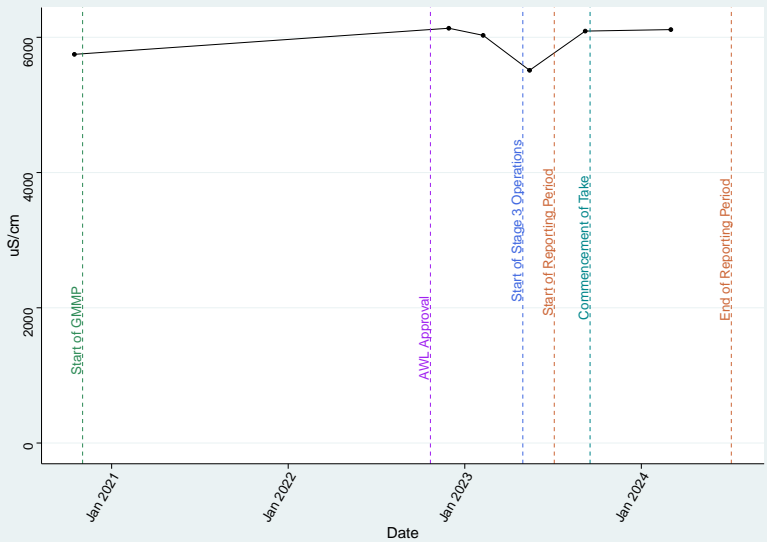
Bore 113PGCB (Acland Coal Sequence) – Cu_diss
Mann Kendall Trend Test | $\tau = -0.106$ | $p\text{-value} = 0.593$ | No trend



Bore 113PGCB (Acland Coal Sequence) – DO_Field
Mann Kendall Trend Test | $\tau = 0.0667$ | $p\text{-value} = 1$ | No trend

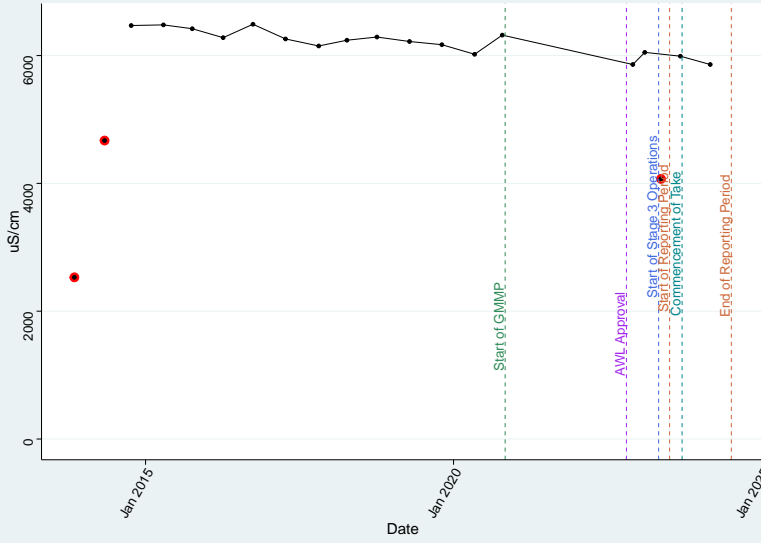


Bore 113PGCB (Acland Coal Sequence) – EC_Field
Mann Kendall Trend Test | $\tau = 0.2$ | $p\text{-value} = 0.707$ | No trend



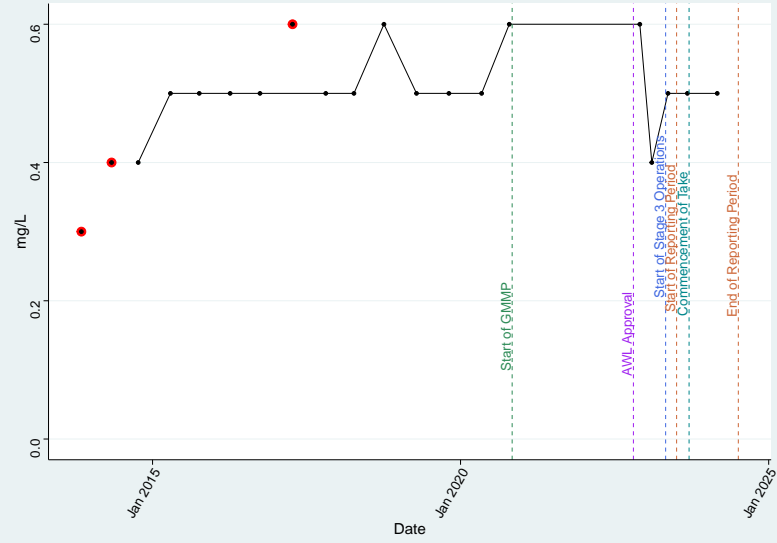
Bore 113PGCB (Acland Coal Sequence) – EC_Lab

Mann Kendall Trend Test | $\tau = -0.354$ | $p\text{-value} = 0.0322$ | Negative trend



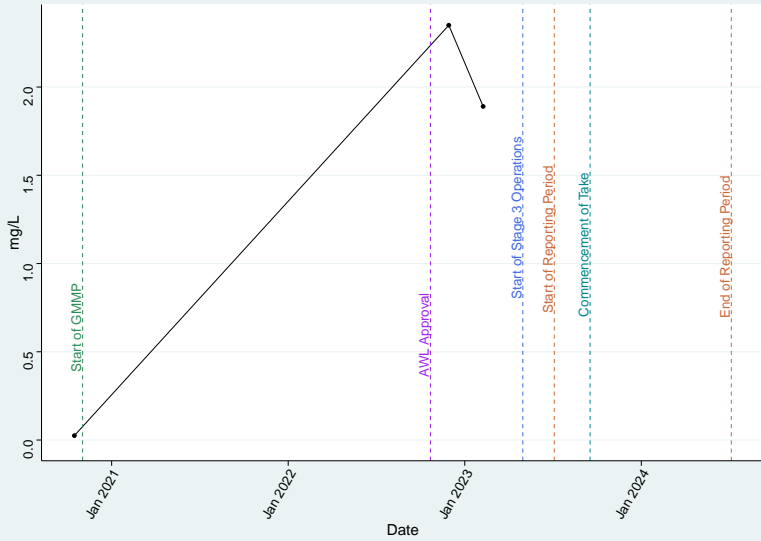
Bore 113PGCB (Acland Coal Sequence) – F

Mann Kendall Trend Test | $\tau = 0.331$ | $p\text{-value} = 0.0746$ | No trend



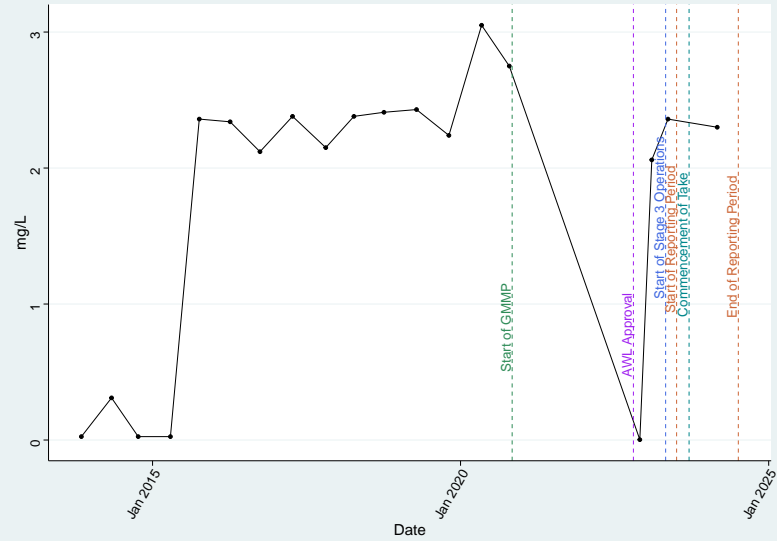
Bore 113PGCB (Acland Coal Sequence) – Fe2

Mann Kendall Trend Test | $\tau =$ Not enough data | $p\text{-value} =$ Not enough data | Not evaluated



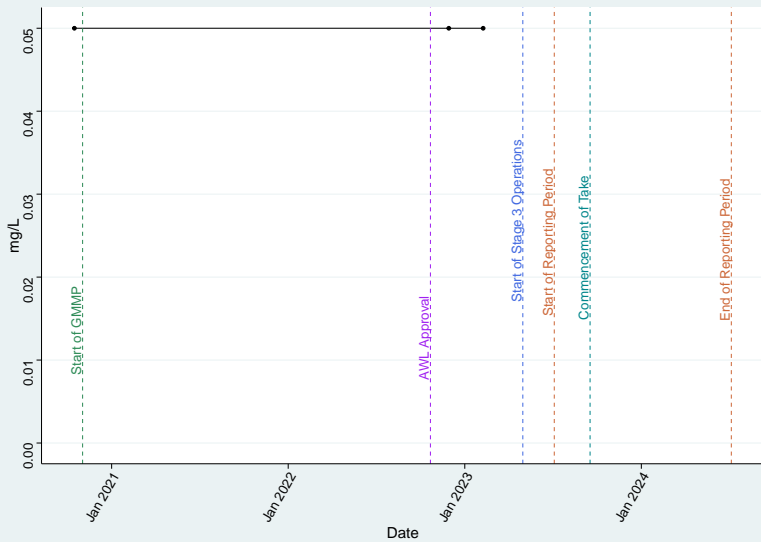
Bore 113PGCB (Acland Coal Sequence) – Fe_diss

Mann Kendall Trend Test | $\tau = 0.321$ | $p\text{-value} = 0.0628$ | No trend



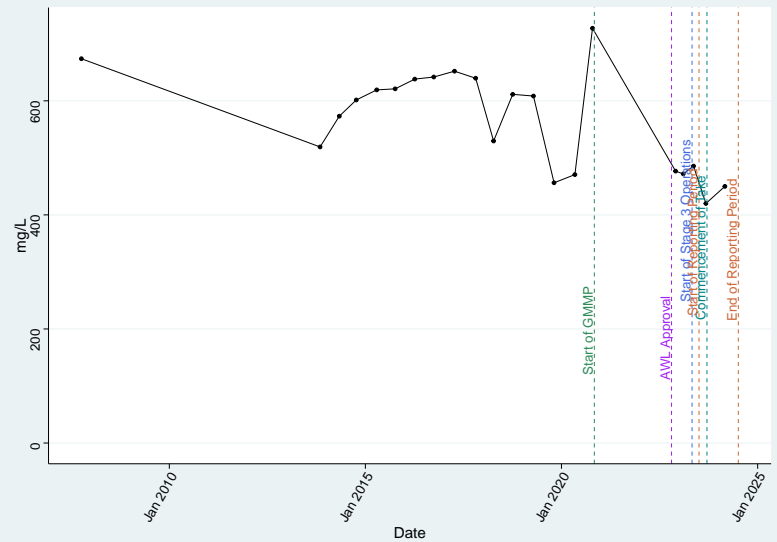
Bore 113PGCB (Acland Coal Sequence) – H2S

Mann Kendall Trend Test | $\tau =$ Not enough data | $p\text{-value} =$ Not enough data | Not evaluated



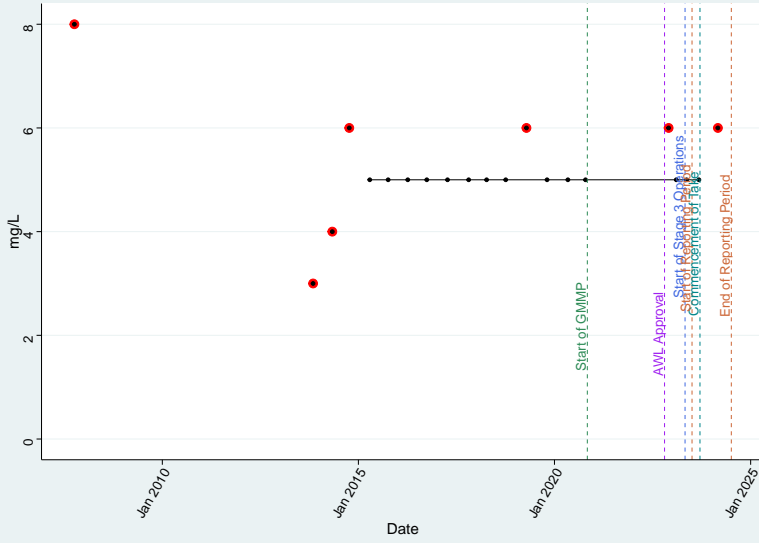
Bore 113PGCB (Acland Coal Sequence) – HCO3

Mann Kendall Trend Test | $\tau = -0.352$ | $p\text{-value} = 0.0275$ | Negative trend



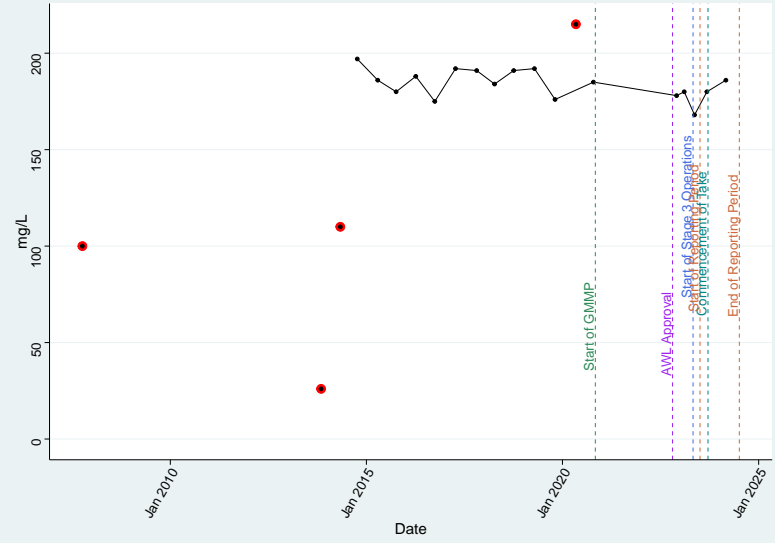
Bore 113PGCB (Acland Coal Sequence) – K

Mann Kendall Trend Test | $\tau = 0.175$ | $p\text{-value} = 0.344$ | No trend



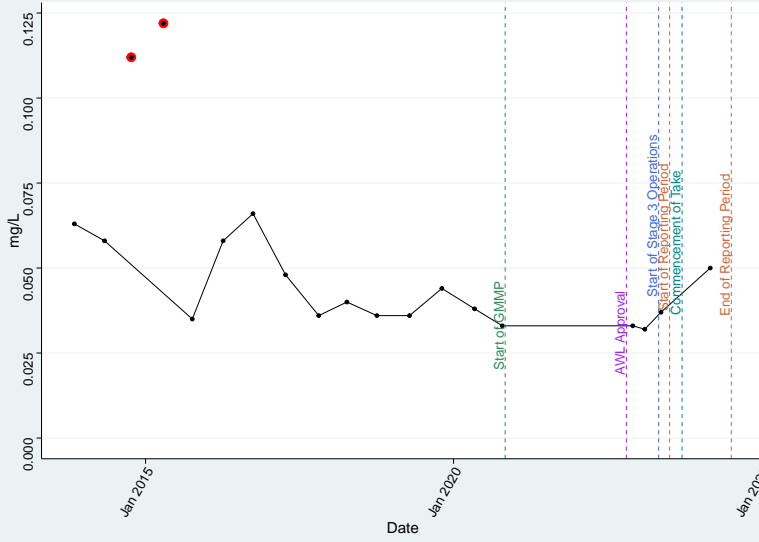
Bore 113PGCB (Acland Coal Sequence) – Mg

Mann Kendall Trend Test | $\tau = 0.116$ | $p\text{-value} = 0.486$ | No trend



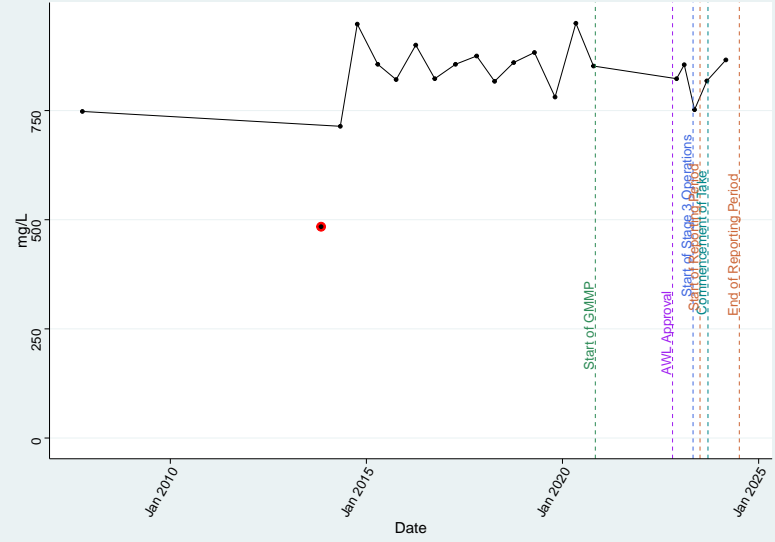
Bore 113PGCB (Acland Coal Sequence) – Mn_diss

Mann Kendall Trend Test | $\tau = -0.463$ | $p\text{-value} = 0.00687$ | Negative trend



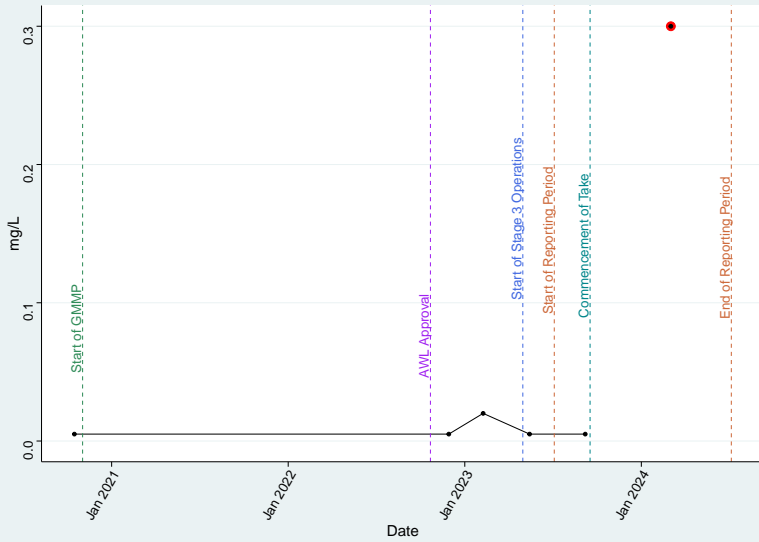
Bore 113PGCB (Acland Coal Sequence) – Na

Mann Kendall Trend Test | $\tau = 0.105$ | $p\text{-value} = 0.526$ | No trend



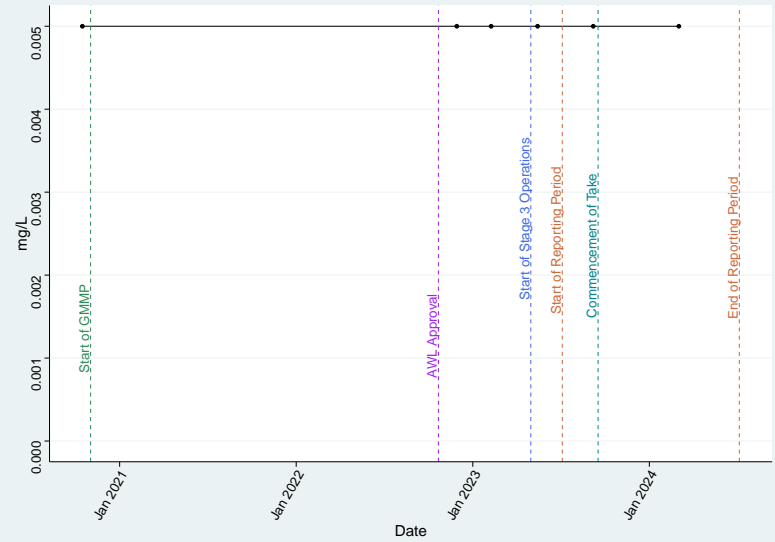
Bore 113PGCB (Acland Coal Sequence) – Nitrate as N

Mann Kendall Trend Test | $\tau = 0.43$ | $p\text{-value} = 0.367$ | No trend

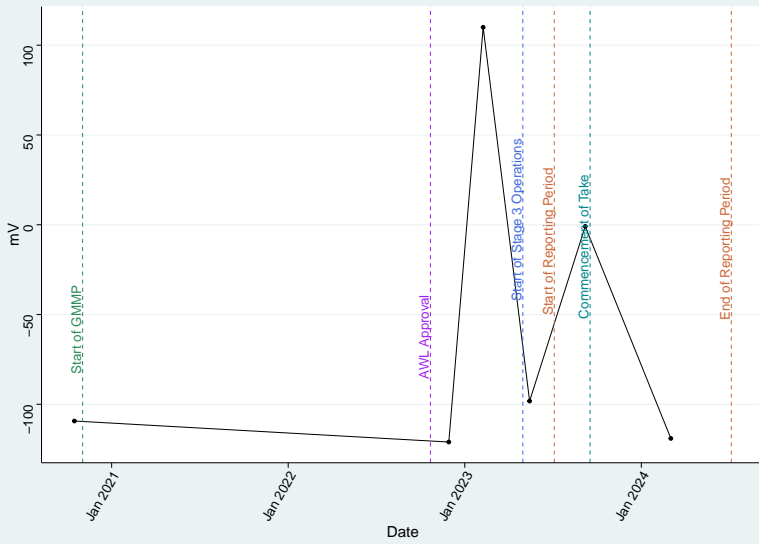


Bore 113PGCB (Acland Coal Sequence) – Nitrite as N

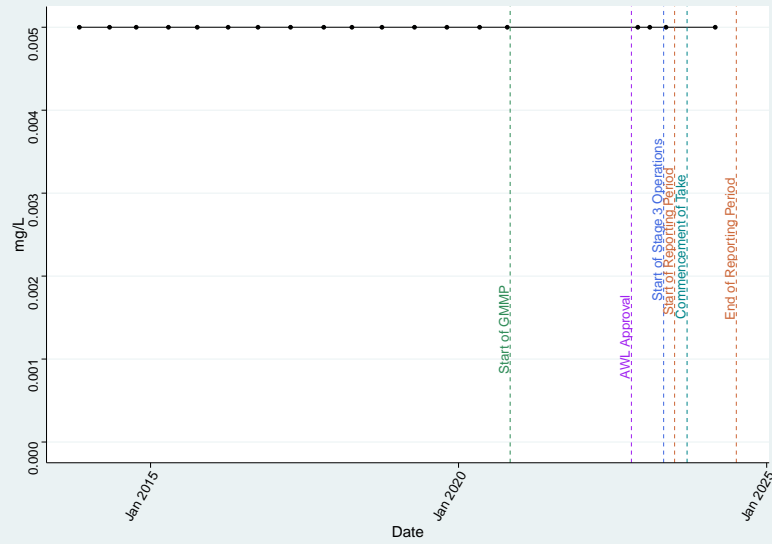
Mann Kendall Trend Test | $\tau = 1$ | $p\text{-value} = 1$ | No trend



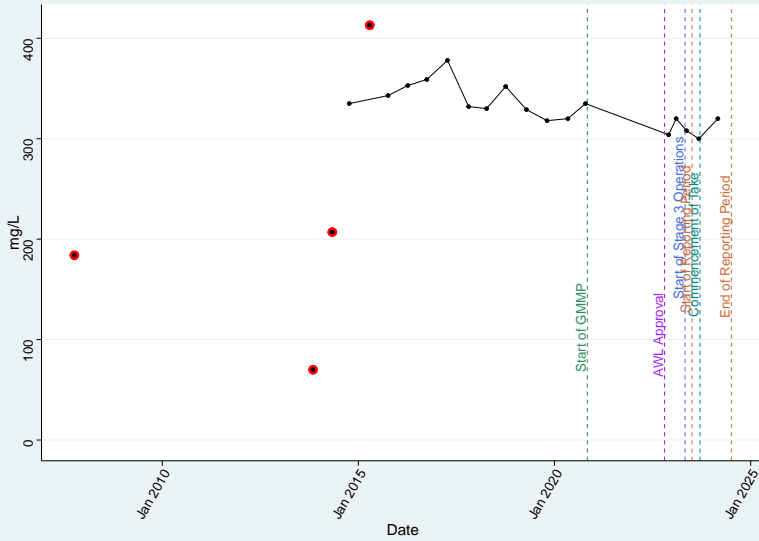
Bore 113PGCB (Acland Coal Sequence) – Redox_Field
 Mann Kendall Trend Test | $\tau = 0.0667$ | $p\text{-value} = 1$ | No trend



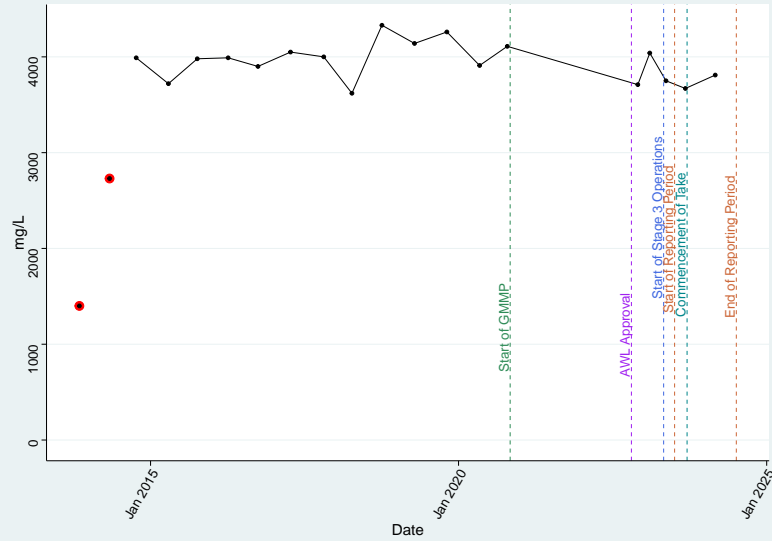
Bore 113PGCB (Acland Coal Sequence) – Se_diss
 Mann Kendall Trend Test | $\tau = 1$ | $p\text{-value} = 1$ | No trend



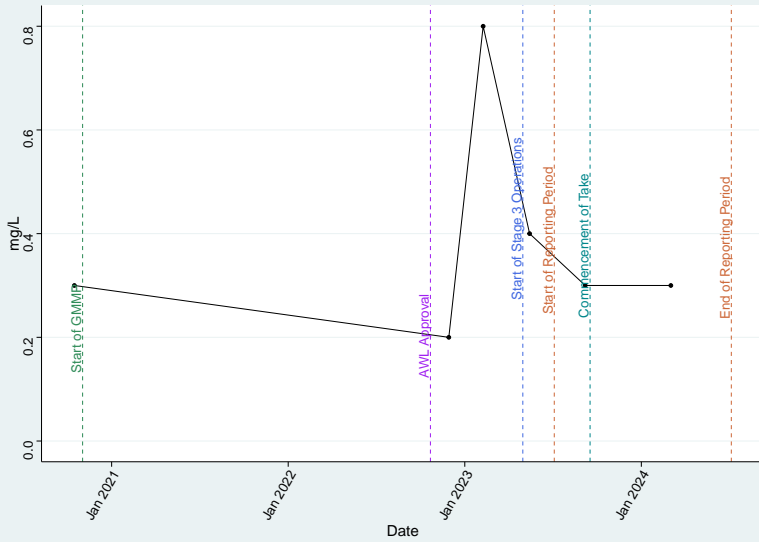
Bore 113PGCB (Acland Coal Sequence) – SO4
 Mann Kendall Trend Test | $\tau = -0.183$ | $p\text{-value} = 0.263$ | No trend



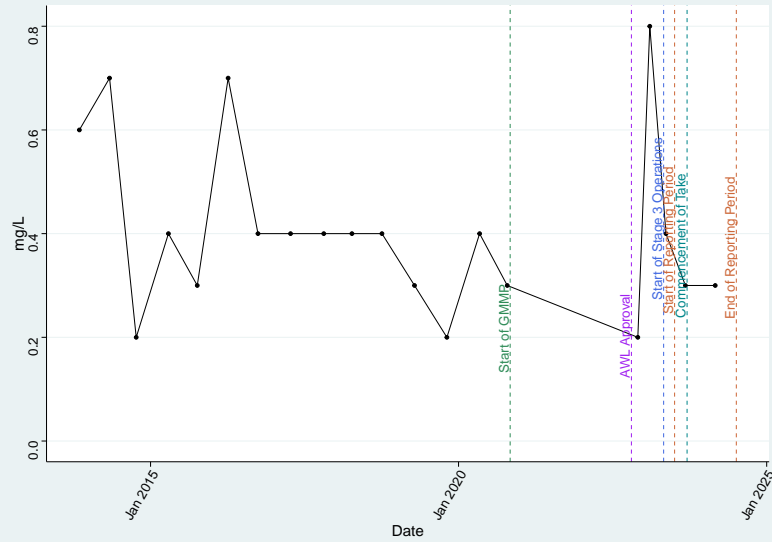
Bore 113PGCB (Acland Coal Sequence) – TDS
 Mann Kendall Trend Test | $\tau = 0.132$ | $p\text{-value} = 0.436$ | No trend



Bore 113PGCB (Acland Coal Sequence) – TKN
 Mann Kendall Trend Test | $\tau = 0$ | $p\text{-value} = 1$ | No trend

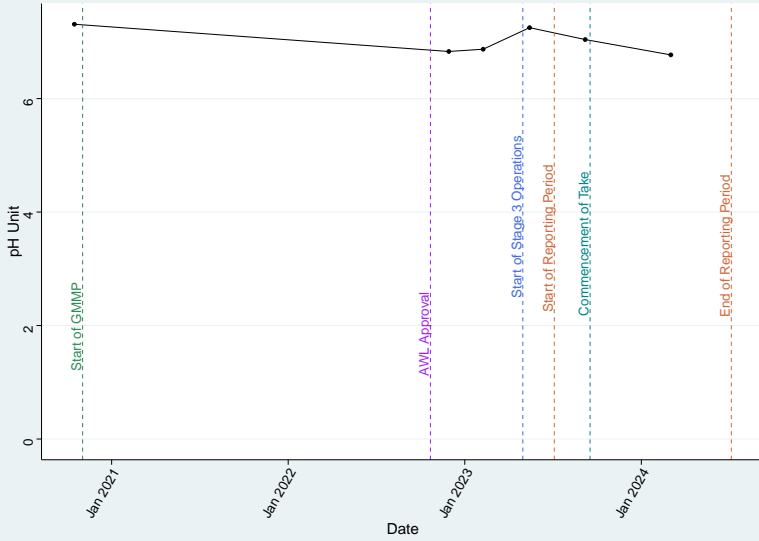


Bore 113PGCB (Acland Coal Sequence) – Total_N
 Mann Kendall Trend Test | $\tau = -0.262$ | $p\text{-value} = 0.143$ | No trend



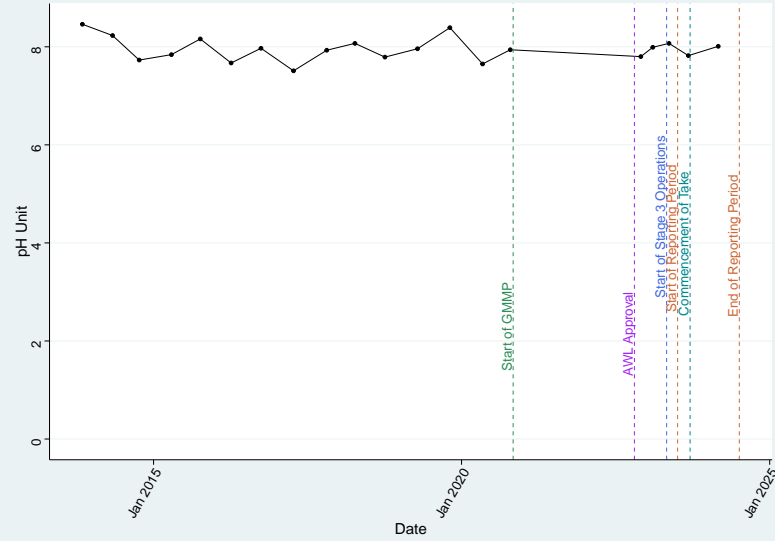
Bore 113PGCB (Acland Coal Sequence) – pH_Field

Mann Kendall Trend Test | $\tau = -0.333$ | $p\text{-value} = 0.452$ | No trend



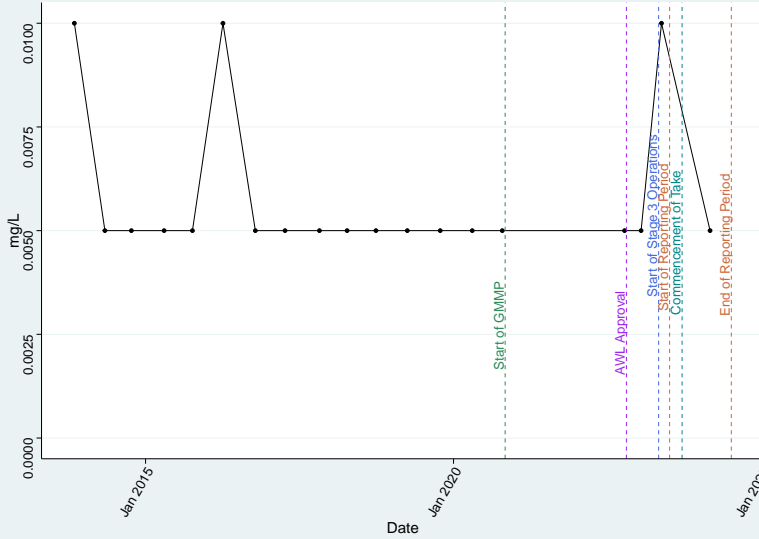
Bore 113PGCB (Acland Coal Sequence) – pH_Lab

Mann Kendall Trend Test | $\tau = -0.0369$ | $p\text{-value} = 0.846$ | No trend



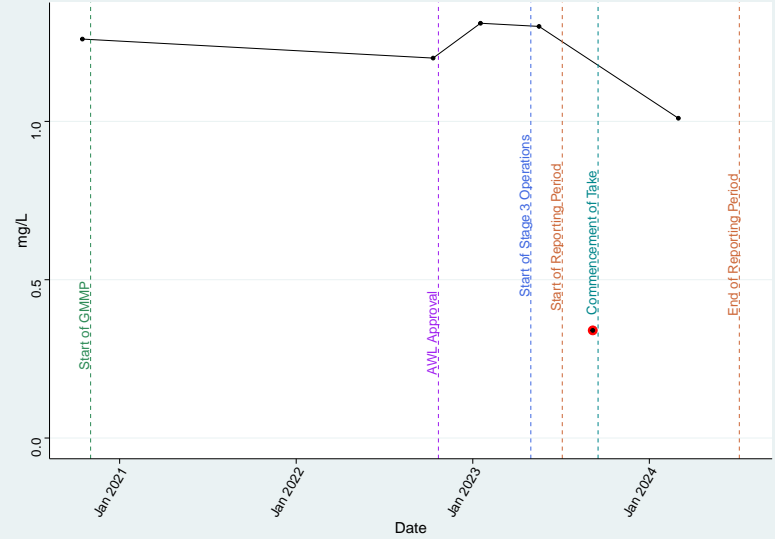
Bore 114P (Acland Coal Sequence) – Al_diss

Mann Kendall Trend Test | $\tau = -0.11$ | $p\text{-value} = 0.615$ | No trend



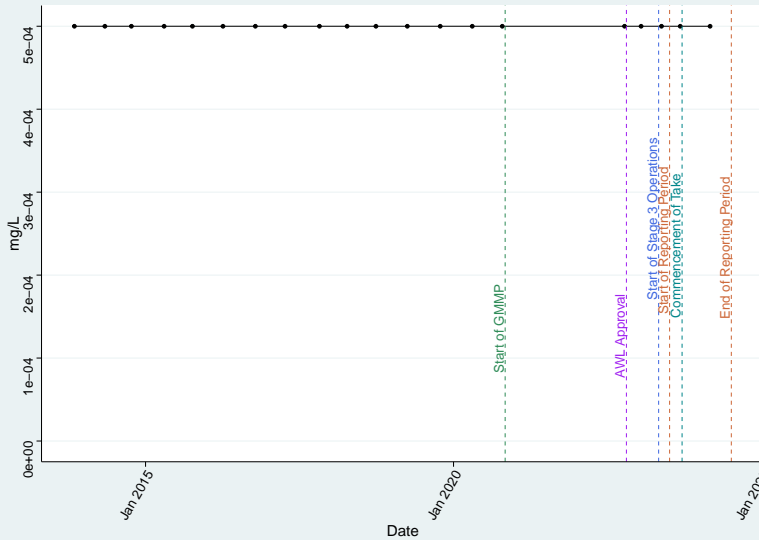
Bore 114P (Acland Coal Sequence) – Ammonia as N

Mann Kendall Trend Test | $\tau = -0.333$ | $p\text{-value} = 0.452$ | No trend



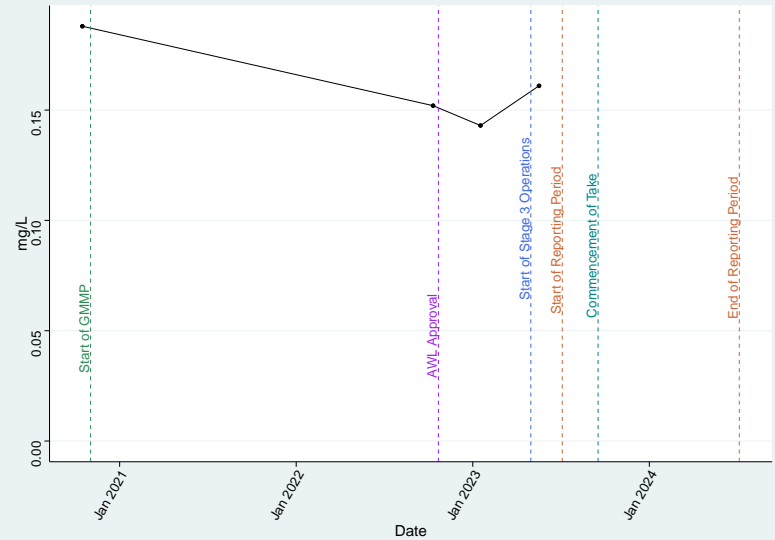
Bore 114P (Acland Coal Sequence) – As_diss

Mann Kendall Trend Test | $\tau = 1$ | $p\text{-value} = 1$ | No trend



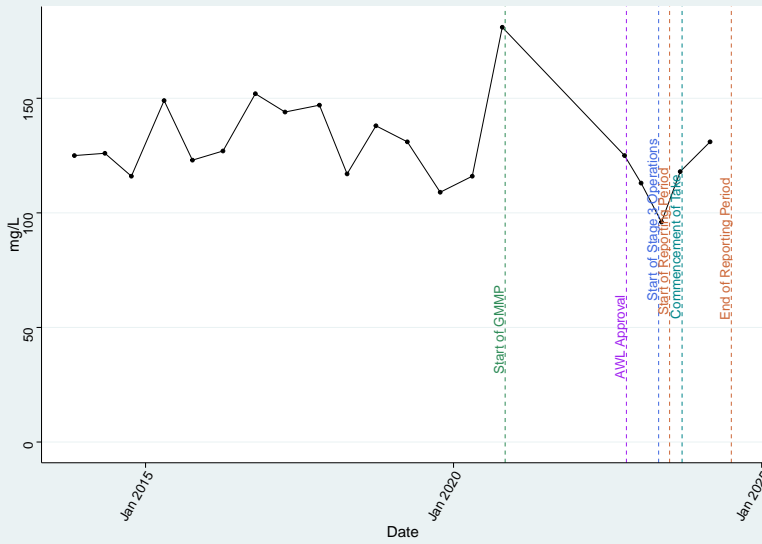
Bore 114P (Acland Coal Sequence) – Ba_diss

Mann Kendall Trend Test | $\tau = -0.333$ | $p\text{-value} = 0.734$ | No trend



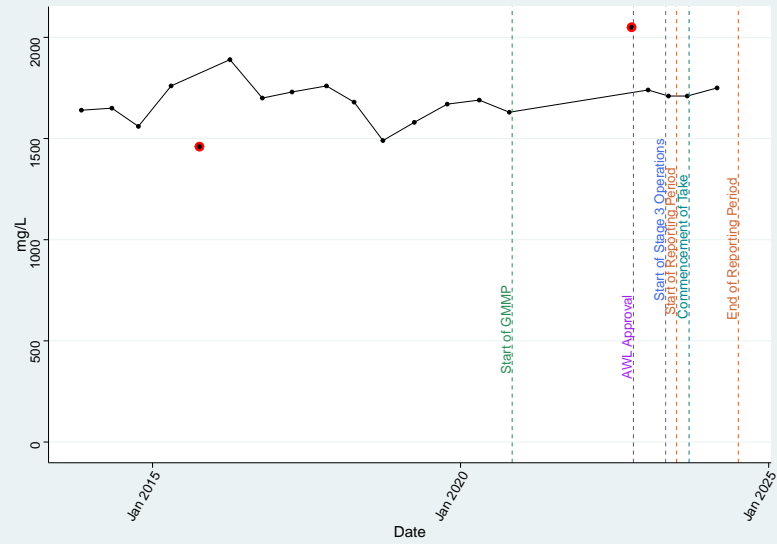
Bore 114P (Acland Coal Sequence) – Ca

Mann Kendall Trend Test | $\tau = -0.164$ | $p\text{-value} = 0.33$ | No trend



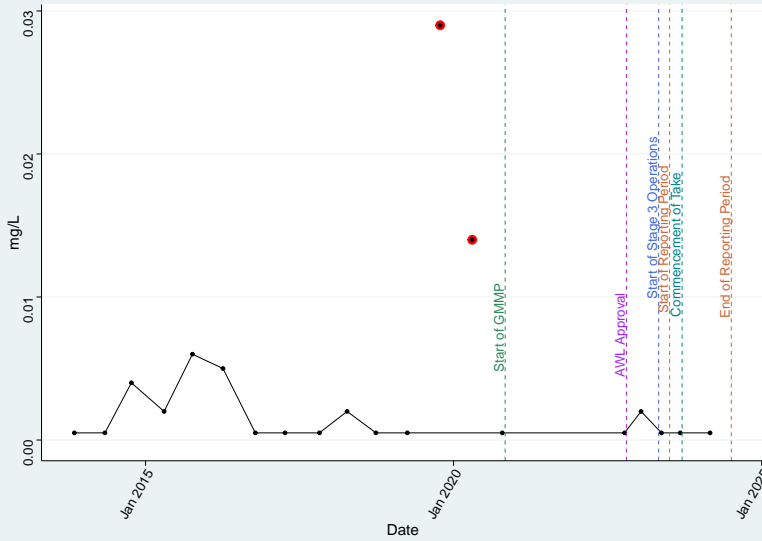
Bore 114P (Acland Coal Sequence) – Cl

Mann Kendall Trend Test | $\tau = 0.212$ | $p\text{-value} = 0.205$ | No trend



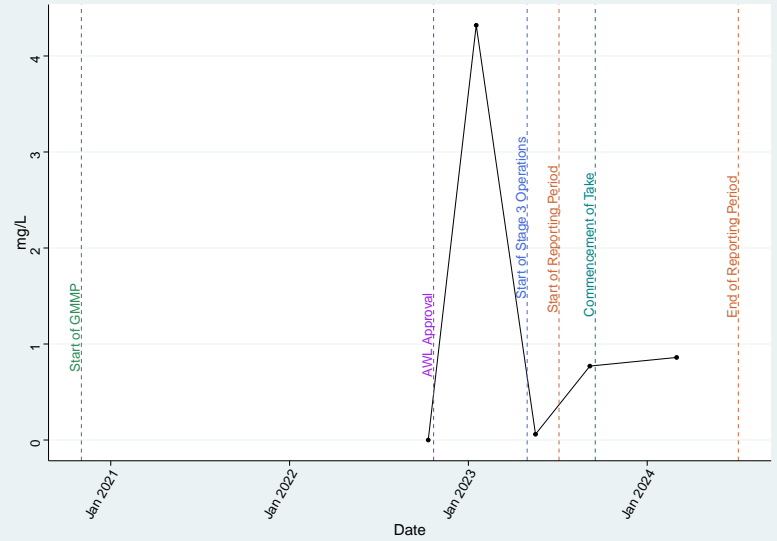
Bore 114P (Acland Coal Sequence) – Cu_diss

Mann Kendall Trend Test | $\tau = -0.139$ | $p\text{-value} = 0.46$ | No trend



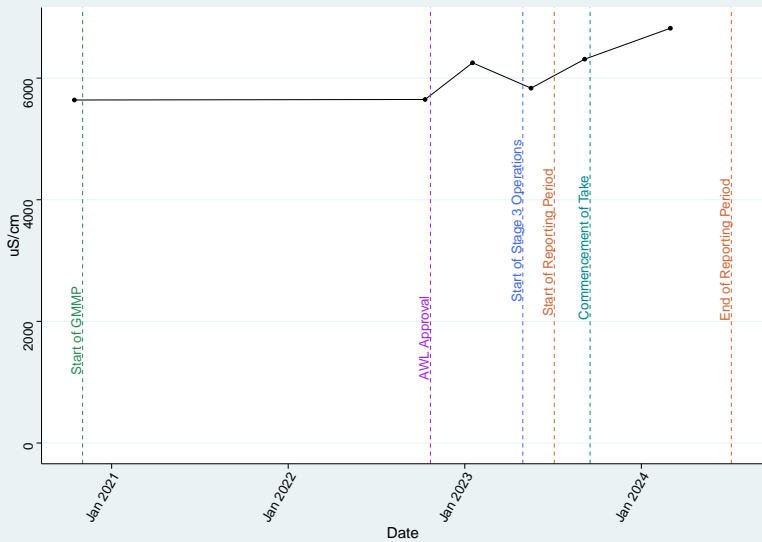
Bore 114P (Acland Coal Sequence) – DO_Field

Mann Kendall Trend Test | $\tau = 0.4$ | $p\text{-value} = 0.462$ | No trend



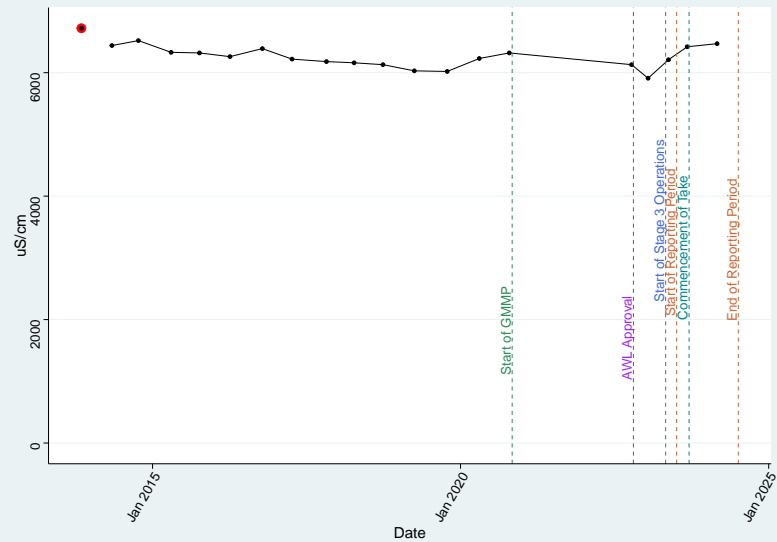
Bore 114P (Acland Coal Sequence) – EC_Field

Mann Kendall Trend Test | $\tau = 0.867$ | $p\text{-value} = 0.0242$ | Positive trend



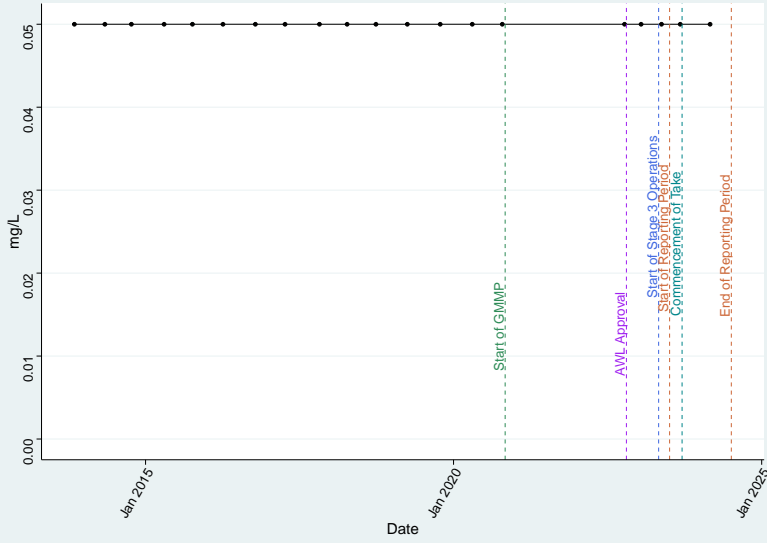
Bore 114P (Acland Coal Sequence) – EC_Lab

Mann Kendall Trend Test | $\tau = -0.37$ | $p\text{-value} = 0.025$ | Negative trend



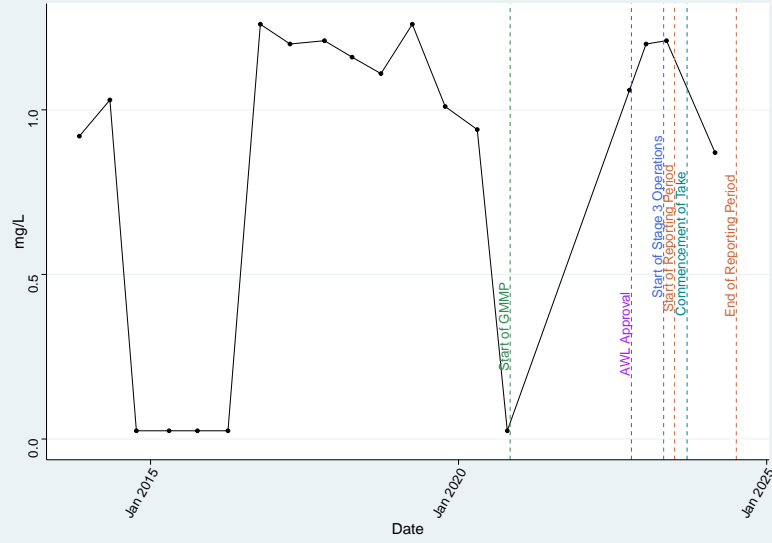
Bore 114P (Acland Coal Sequence) – F

Mann Kendall Trend Test | $\tau = 1$ | p-value = 1 | No trend



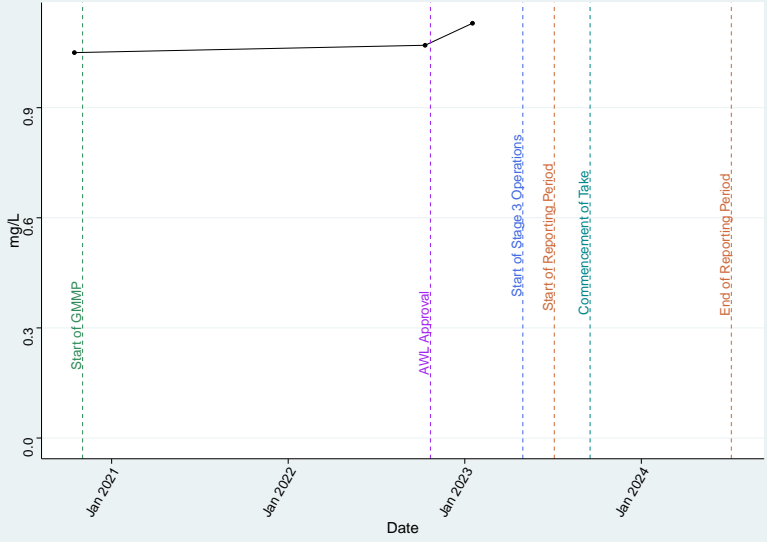
Bore 114P (Acland Coal Sequence) – Fe_{diss}

Mann Kendall Trend Test | $\tau = 0.158$ | p-value = 0.376 | No trend



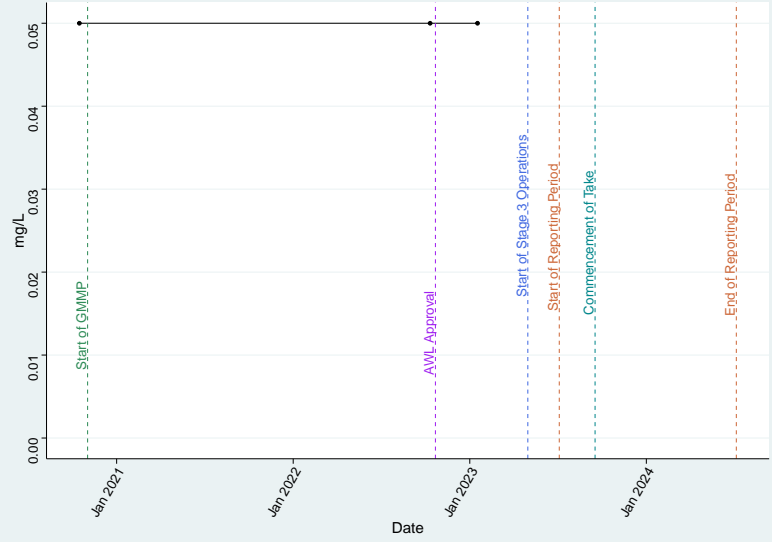
Bore 114P (Acland Coal Sequence) – Fe₂

Mann Kendall Trend Test | $\tau =$ Not enough data | p-value = Not enough data | Not evaluated



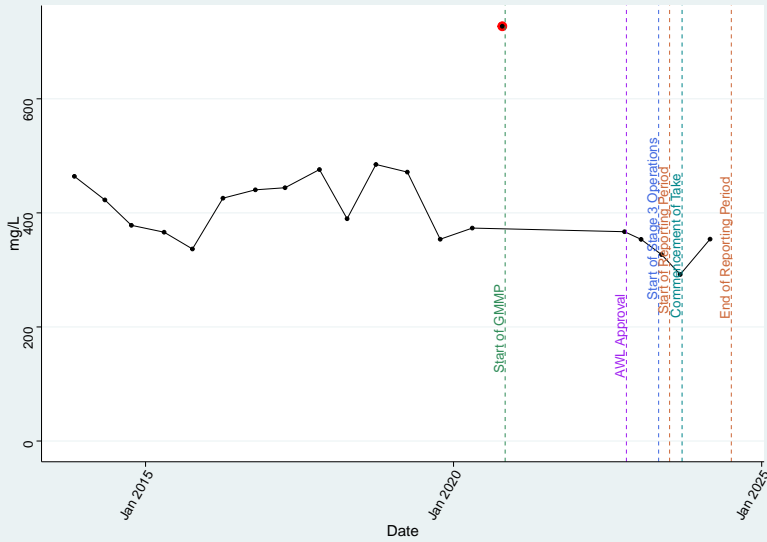
Bore 114P (Acland Coal Sequence) – H₂S

Mann Kendall Trend Test | $\tau =$ Not enough data | p-value = Not enough data | Not evaluated



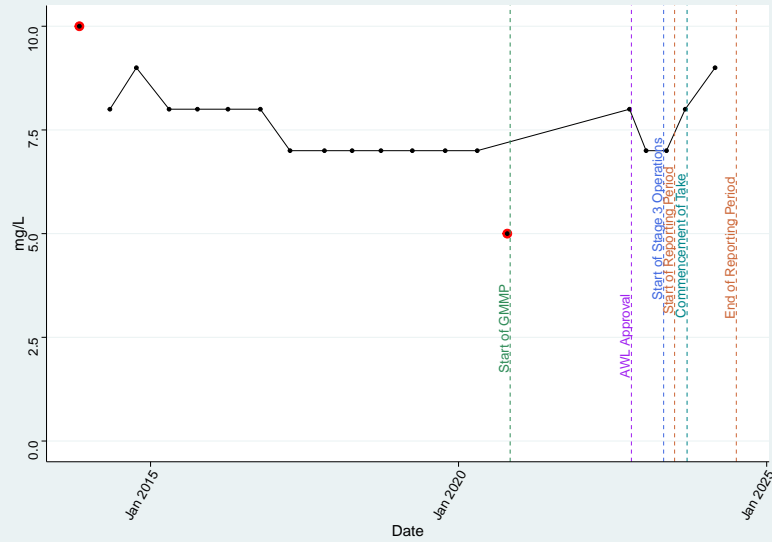
Bore 114P (Acland Coal Sequence) – HCO₃

Mann Kendall Trend Test | $\tau = -0.242$ | p-value = 0.144 | No trend



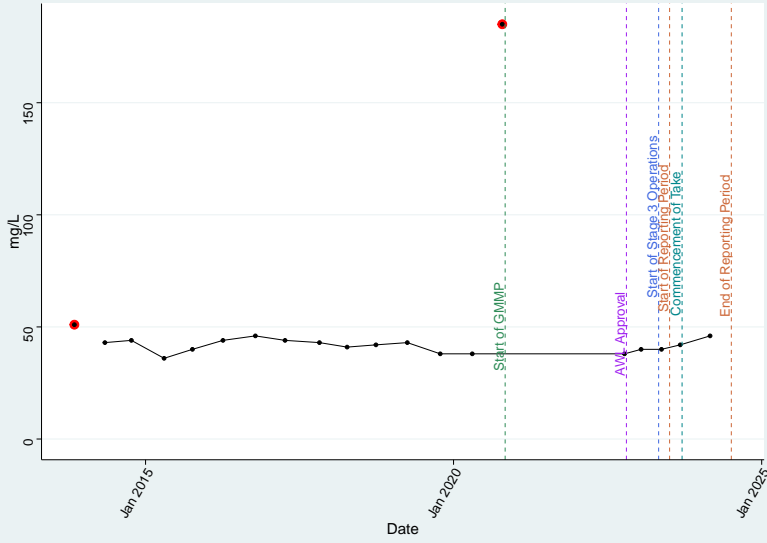
Bore 114P (Acland Coal Sequence) – K

Mann Kendall Trend Test | $\tau = -0.354$ | p-value = 0.0537 | No trend



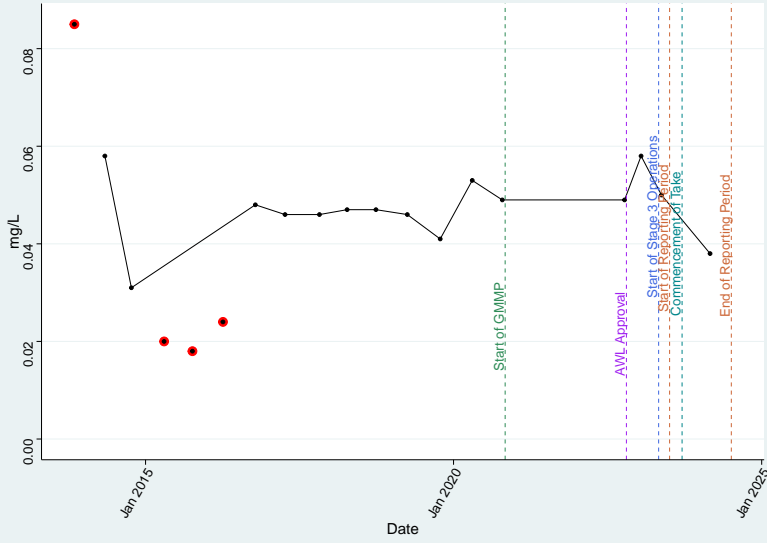
Bore 114P (Acland Coal Sequence) – Mg

Mann Kendall Trend Test | $\tau = -0.164$ | $p\text{-value} = 0.342$ | No trend



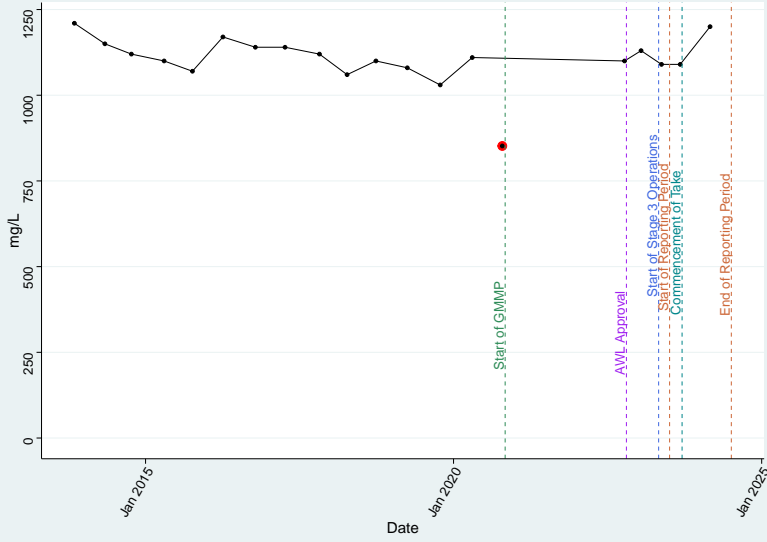
Bore 114P (Acland Coal Sequence) – Mn_diss

Mann Kendall Trend Test | $\tau = 0.185$ | $p\text{-value} = 0.292$ | No trend



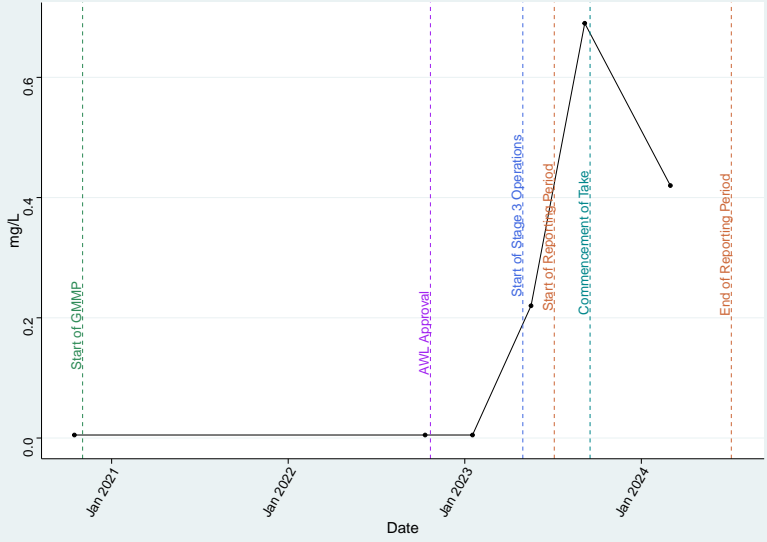
Bore 114P (Acland Coal Sequence) – Na

Mann Kendall Trend Test | $\tau = -0.278$ | $p\text{-value} = 0.0968$ | No trend



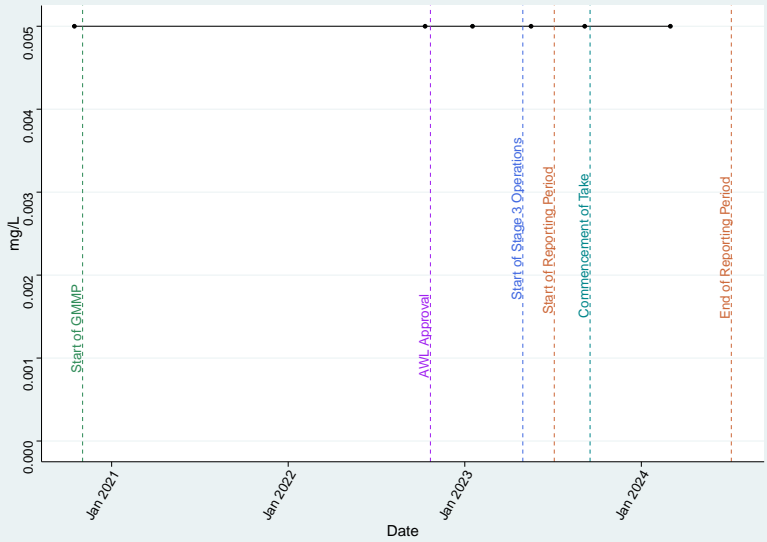
Bore 114P (Acland Coal Sequence) – Nitrate as N

Mann Kendall Trend Test | $\tau = 0.745$ | $p\text{-value} = 0.07$ | No trend



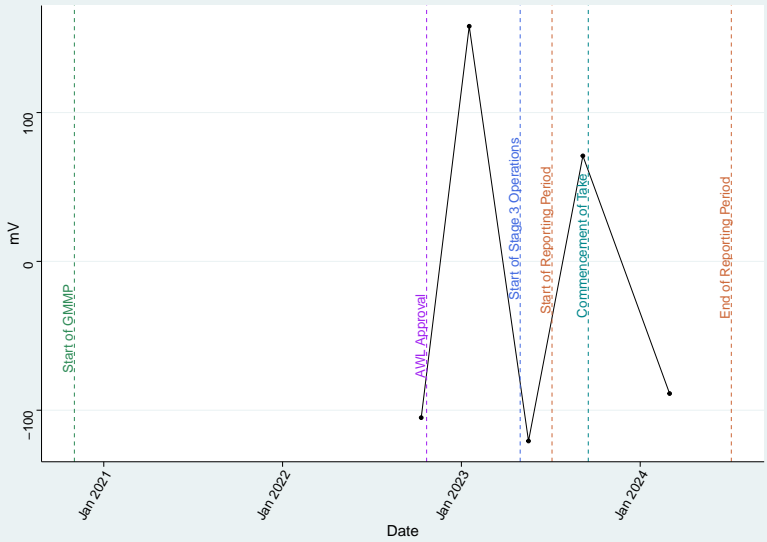
Bore 114P (Acland Coal Sequence) – Nitrite as N

Mann Kendall Trend Test | $\tau = 1$ | $p\text{-value} = 1$ | No trend



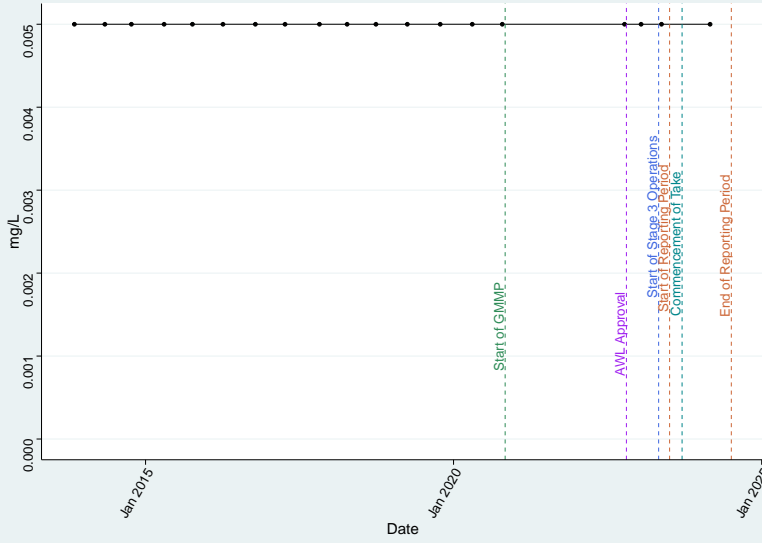
Bore 114P (Acland Coal Sequence) – Redox_Field

Mann Kendall Trend Test | $\tau = 0$ | $p\text{-value} = 1$ | No trend



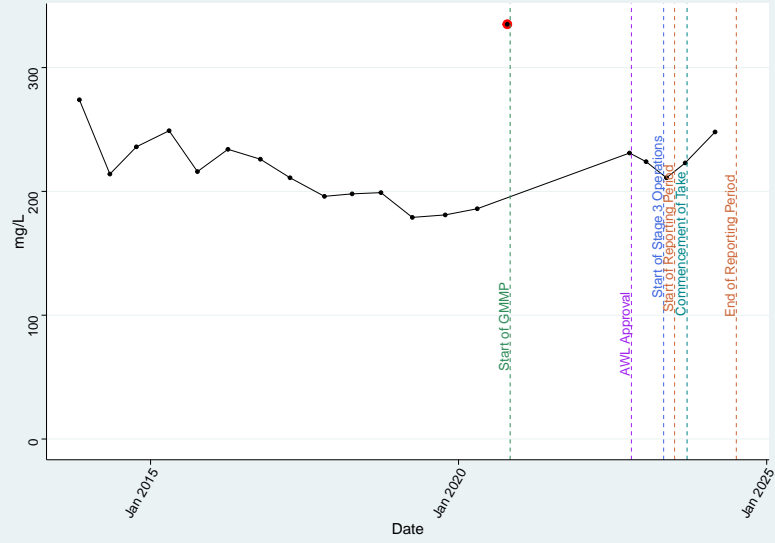
Bore 114P (Acland Coal Sequence) – Se_diss

Mann Kendall Trend Test | $\tau = 1$ | p-value = 1 | No trend



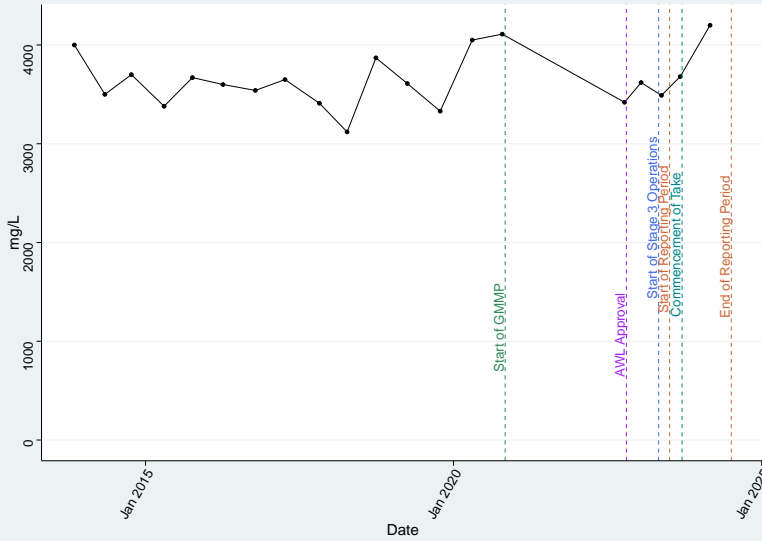
Bore 114P (Acland Coal Sequence) – SO4

Mann Kendall Trend Test | $\tau = -0.164$ | p-value = 0.33 | No trend



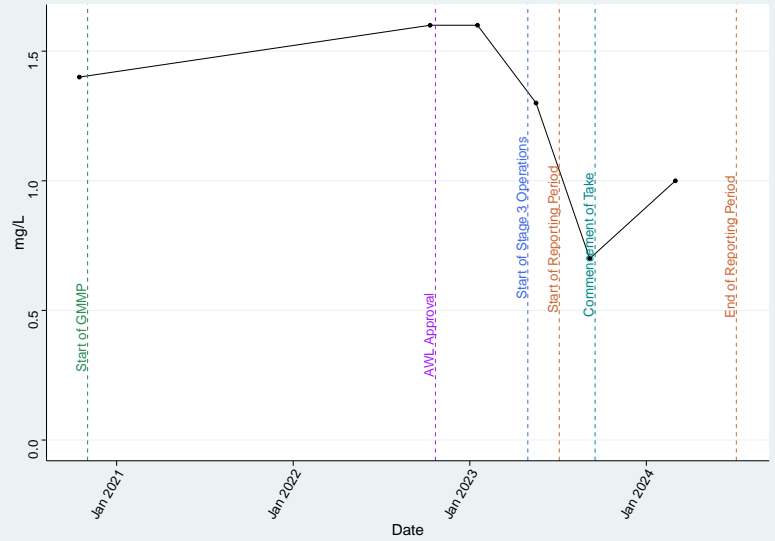
Bore 114P (Acland Coal Sequence) – TDS

Mann Kendall Trend Test | $\tau = 0.105$ | p-value = 0.538 | No trend



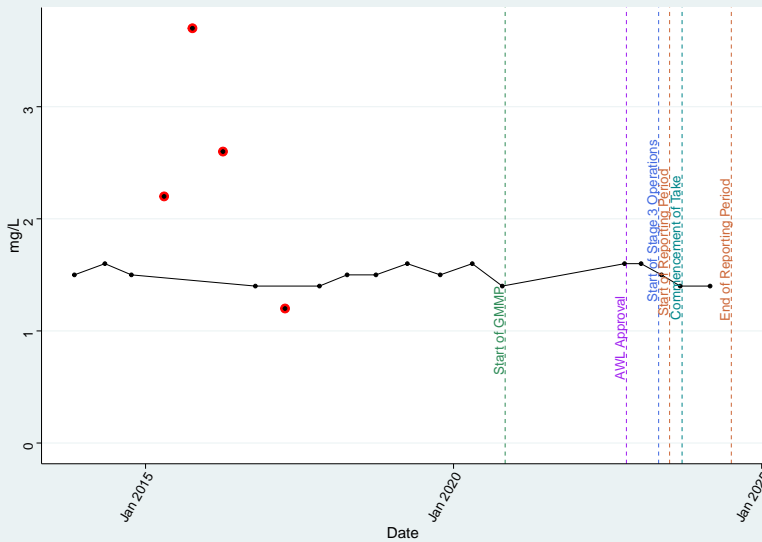
Bore 114P (Acland Coal Sequence) – TKN

Mann Kendall Trend Test | $\tau = -0.552$ | p-value = 0.181 | No trend



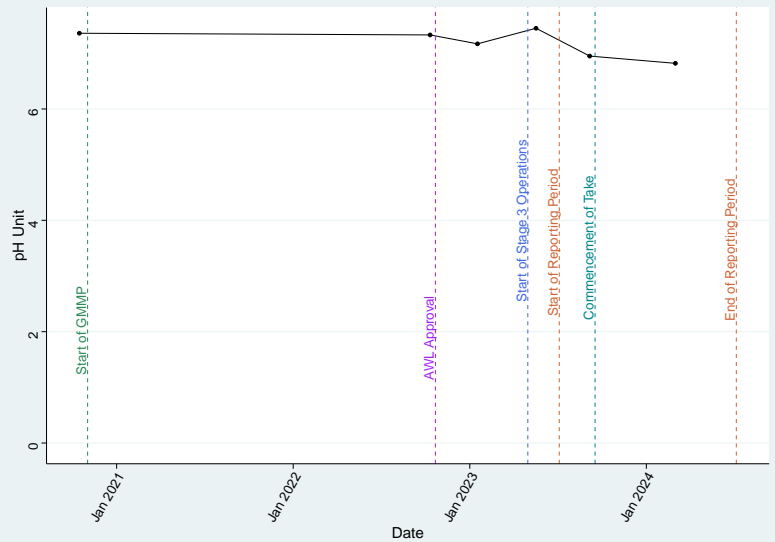
Bore 114P (Acland Coal Sequence) – Total_N

Mann Kendall Trend Test | $\tau = -0.181$ | p-value = 0.314 | No trend



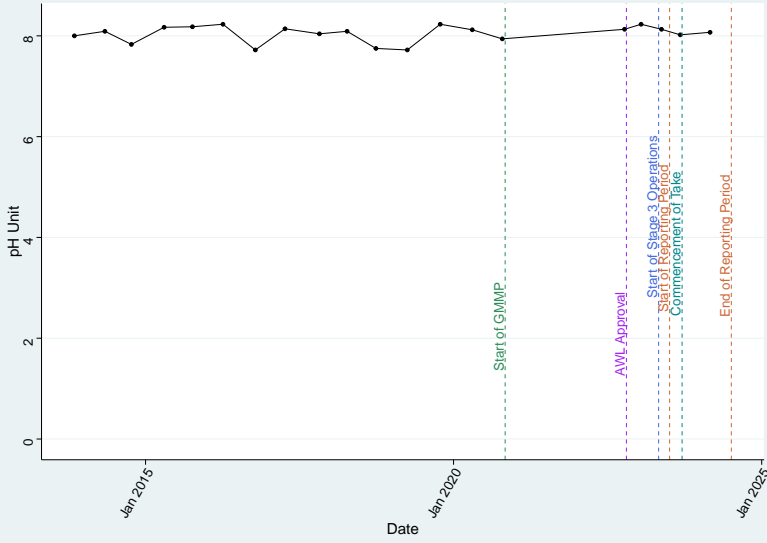
Bore 114P (Acland Coal Sequence) – pH_Field

Mann Kendall Trend Test | $\tau = -0.6$ | p-value = 0.133 | No trend



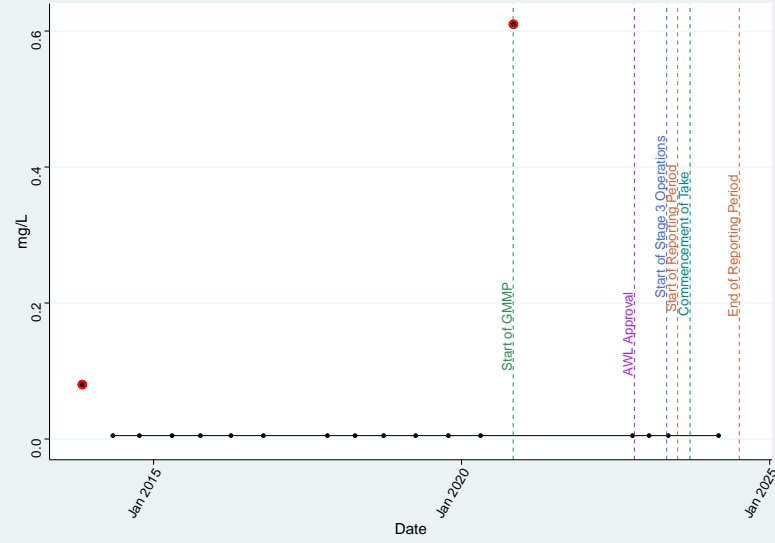
Bore 114P (Acland Coal Sequence) – pH_Lab

Mann Kendall Trend Test | $\tau = 0.0428$ | $p\text{-value} = 0.82$ | No trend



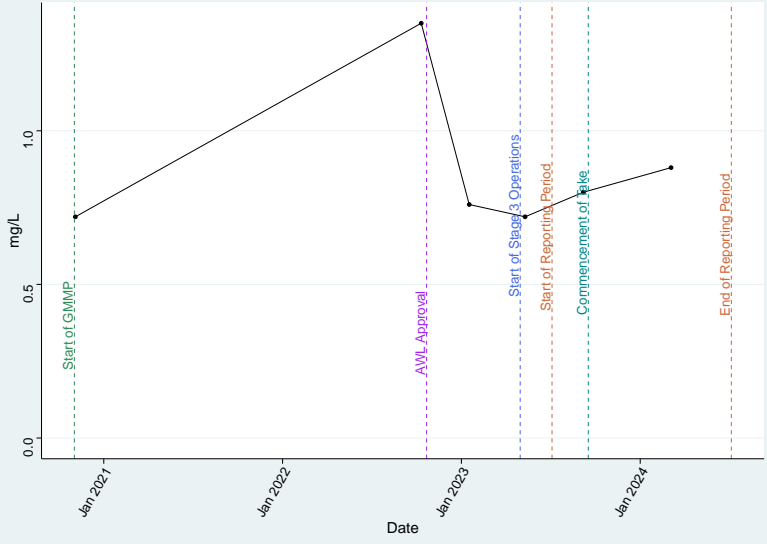
Bore 116P (Acland Coal Sequence) – Al_diss

Mann Kendall Trend Test | $\tau = -0.0985$ | $p\text{-value} = 0.674$ | No trend



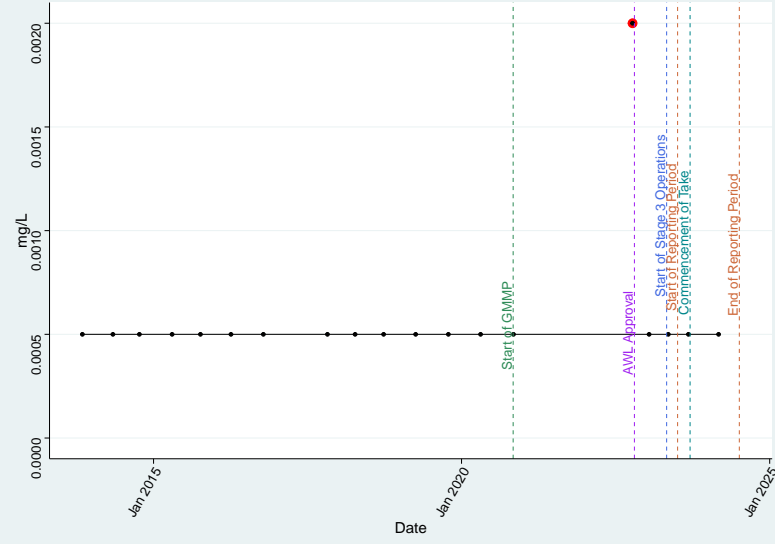
Bore 116P (Acland Coal Sequence) – Ammonia as N

Mann Kendall Trend Test | $\tau = 0.276$ | $p\text{-value} = 0.566$ | No trend



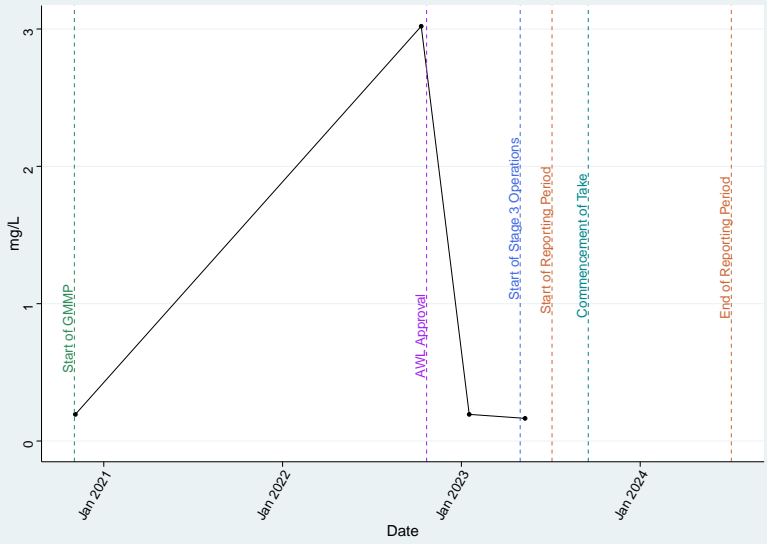
Bore 116P (Acland Coal Sequence) – As_diss

Mann Kendall Trend Test | $\tau = 0.18$ | $p\text{-value} = 0.411$ | No trend



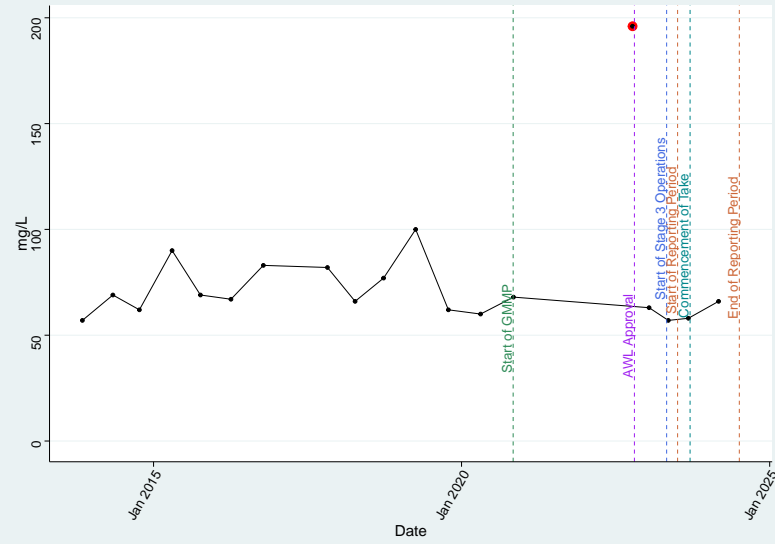
Bore 116P (Acland Coal Sequence) – Ba_diss

Mann Kendall Trend Test | $\tau = -0.548$ | $p\text{-value} = 0.47$ | No trend



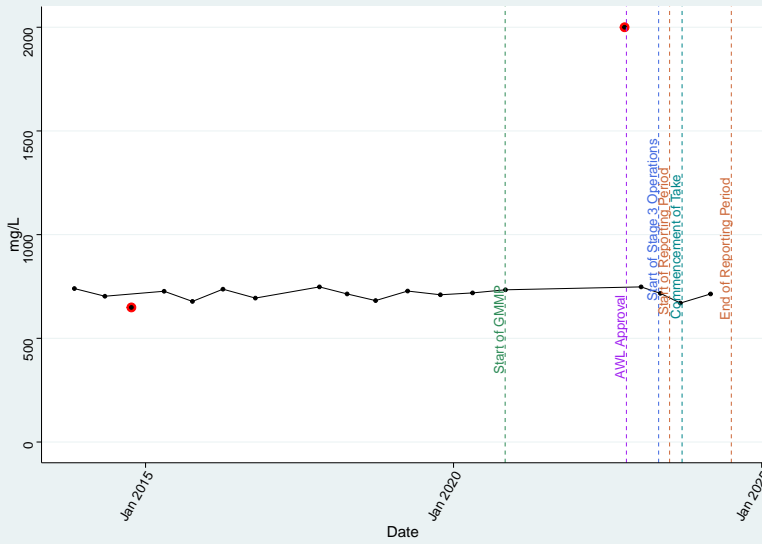
Bore 116P (Acland Coal Sequence) – Ca

Mann Kendall Trend Test | $\tau = -0.136$ | $p\text{-value} = 0.44$ | No trend



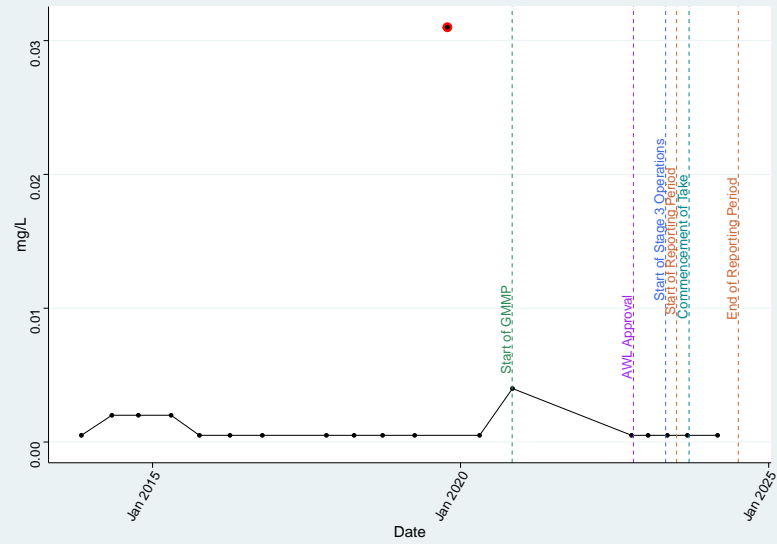
Bore 116P (Acland Coal Sequence) – Cl

Mann Kendall Trend Test | $\tau = 0.1$ | p-value = 0.575 | No trend



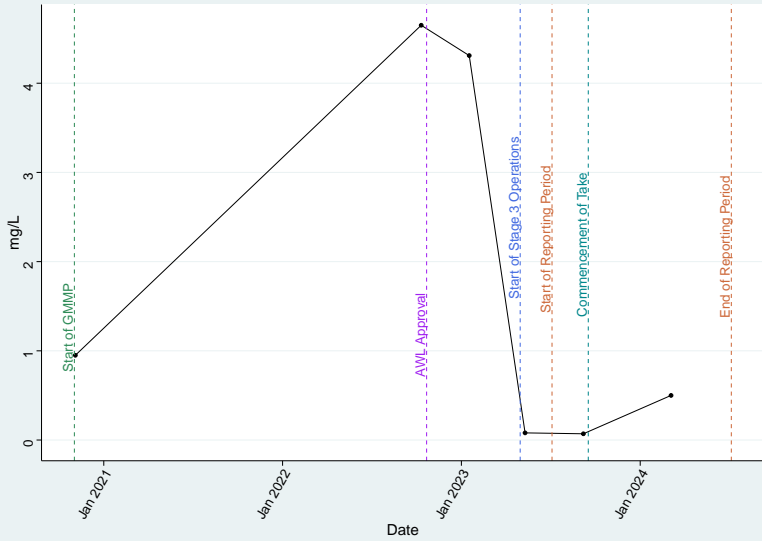
Bore 116P (Acland Coal Sequence) – Cu_diss

Mann Kendall Trend Test | $\tau = -0.218$ | p-value = 0.273 | No trend



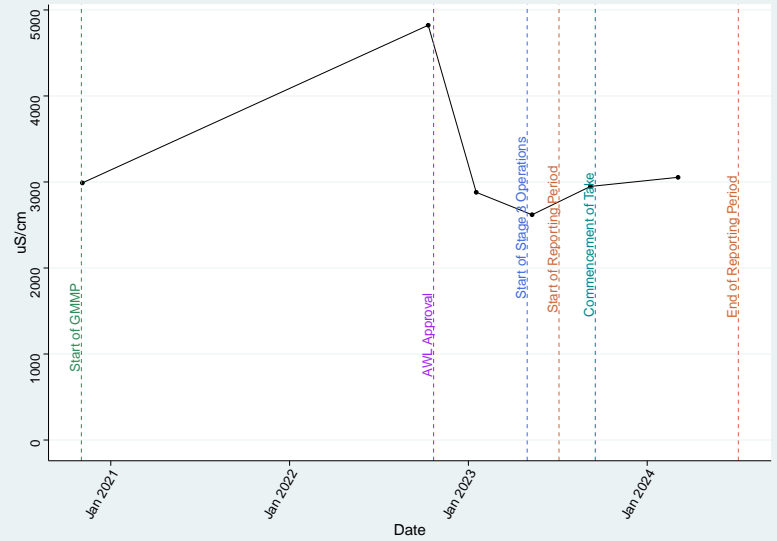
Bore 116P (Acland Coal Sequence) – DO_Field

Mann Kendall Trend Test | $\tau = -0.467$ | p-value = 0.26 | No trend



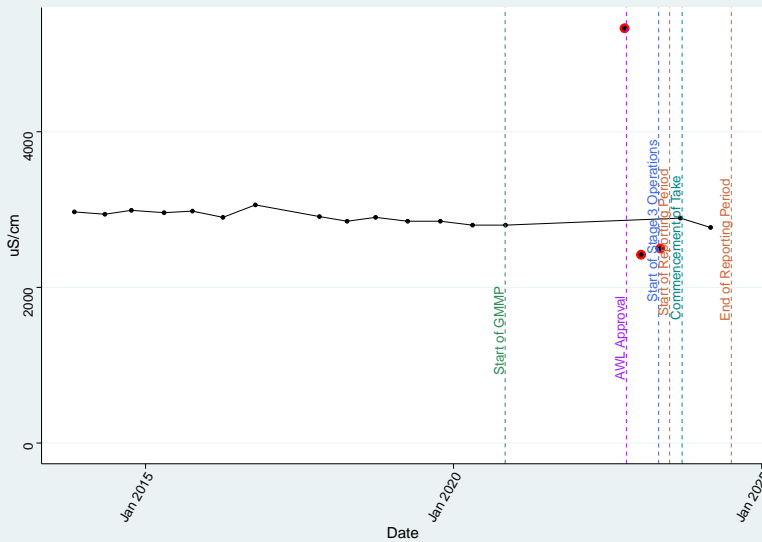
Bore 116P (Acland Coal Sequence) – EC_Field

Mann Kendall Trend Test | $\tau = -0.0667$ | p-value = 1 | No trend



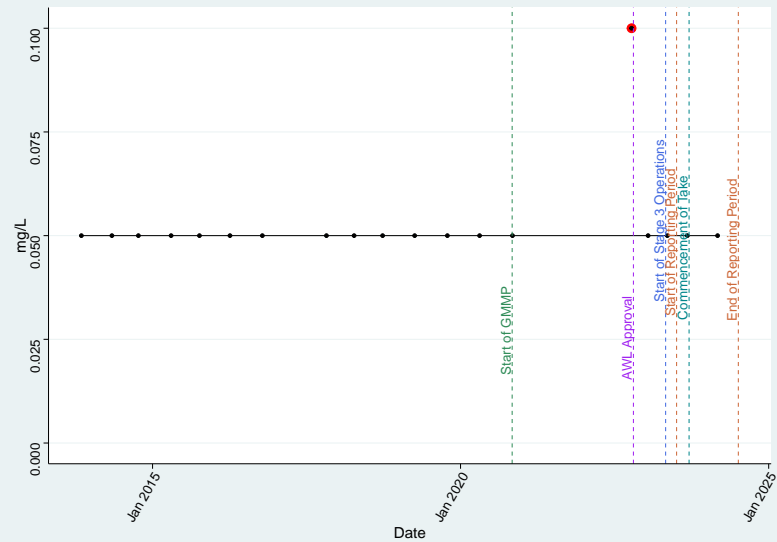
Bore 116P (Acland Coal Sequence) – EC_Lab

Mann Kendall Trend Test | $\tau = -0.534$ | p-value = 0.00178 | Negative trend



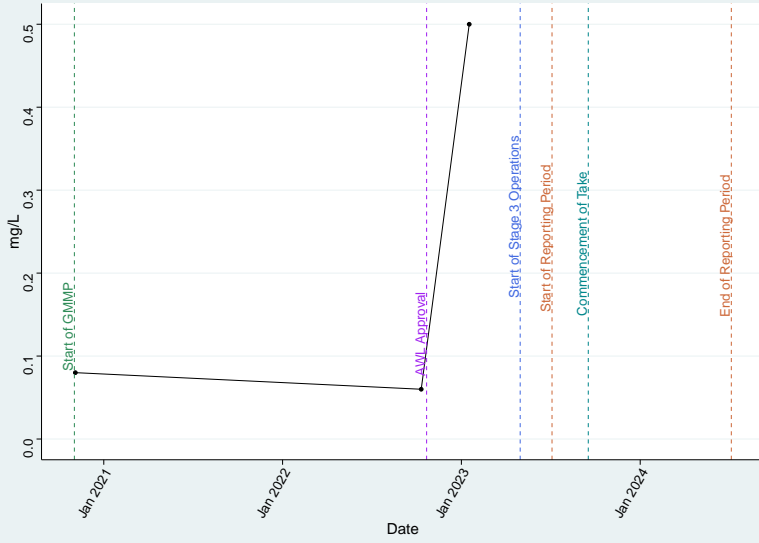
Bore 116P (Acland Coal Sequence) – F

Mann Kendall Trend Test | $\tau = 0.18$ | p-value = 0.411 | No trend



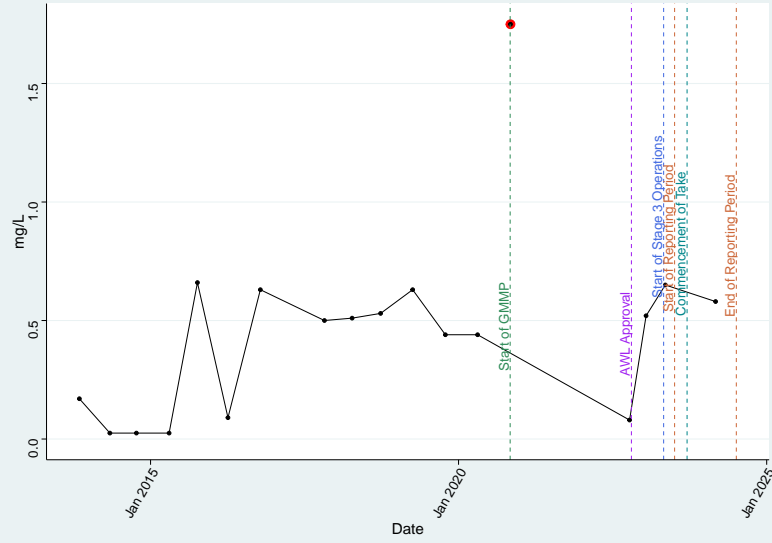
Bore 116P (Acland Coal Sequence) – Fe2

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



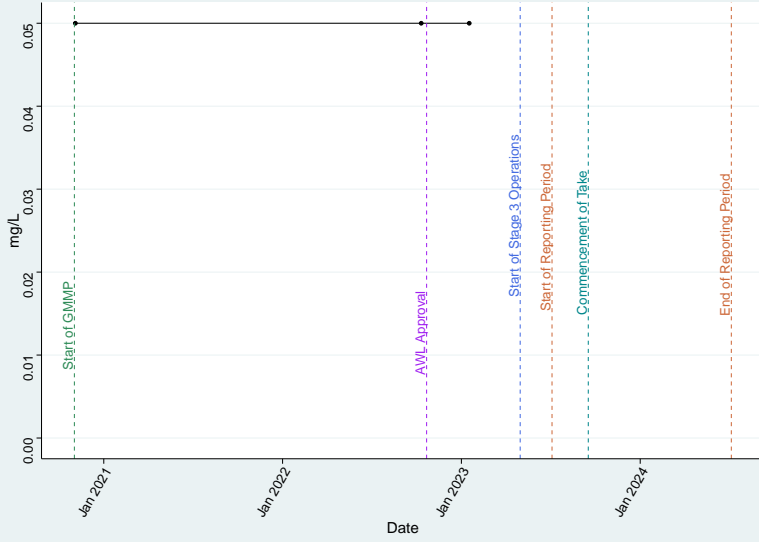
Bore 116P (Acland Coal Sequence) – Fe_diss

Mann Kendall Trend Test | τ = 0.346 | p-value = 0.0524 | No trend



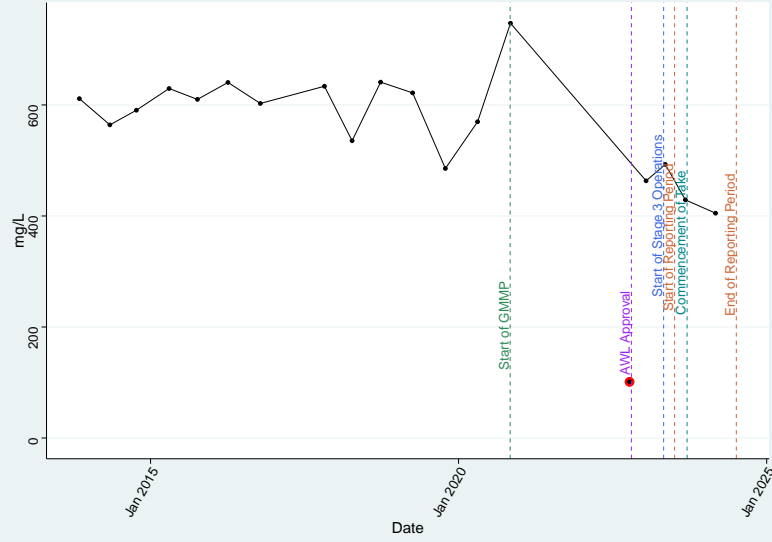
Bore 116P (Acland Coal Sequence) – H2S

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



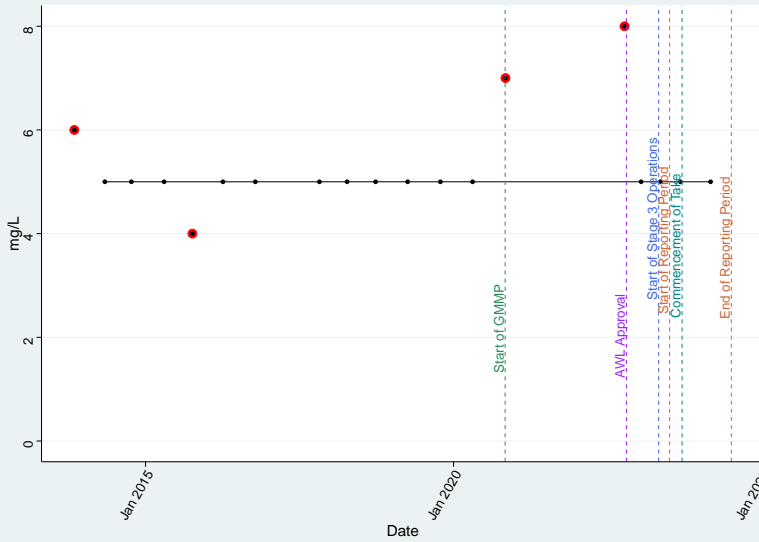
Bore 116P (Acland Coal Sequence) – HCO3

Mann Kendall Trend Test | τ = -0.345 | p-value = 0.0424 | Negative trend



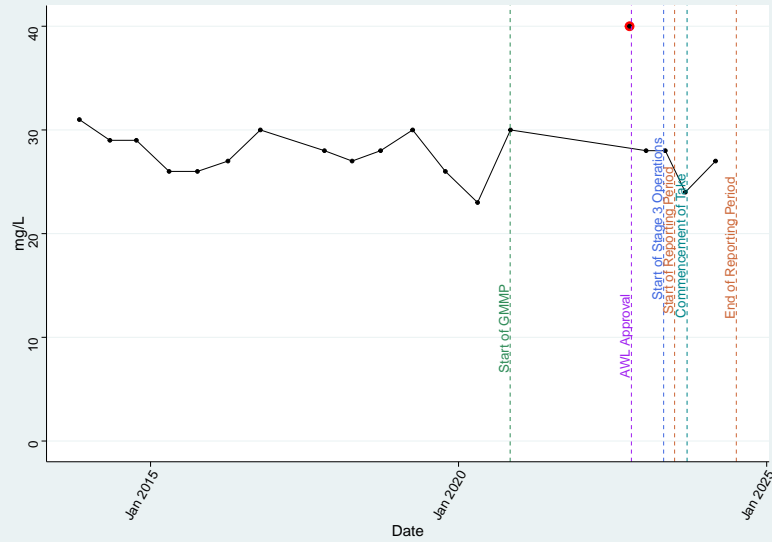
Bore 116P (Acland Coal Sequence) – K

Mann Kendall Trend Test | τ = 0.113 | p-value = 0.586 | No trend



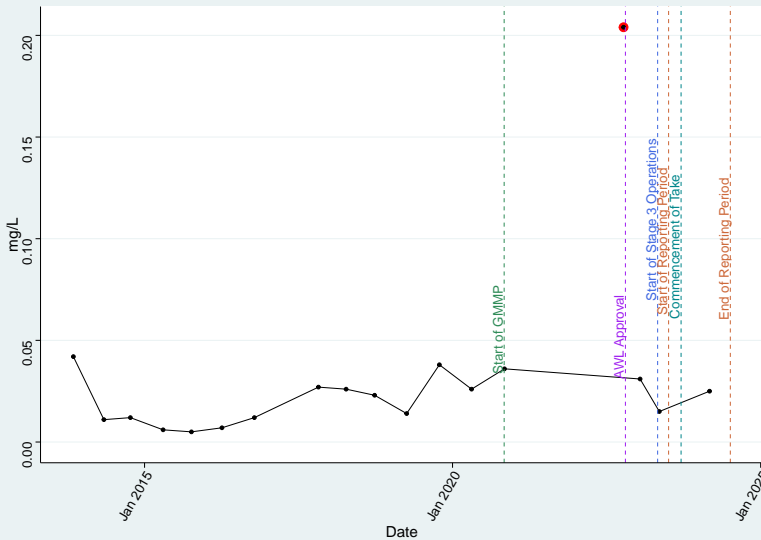
Bore 116P (Acland Coal Sequence) – Mg

Mann Kendall Trend Test | τ = -0.141 | p-value = 0.436 | No trend



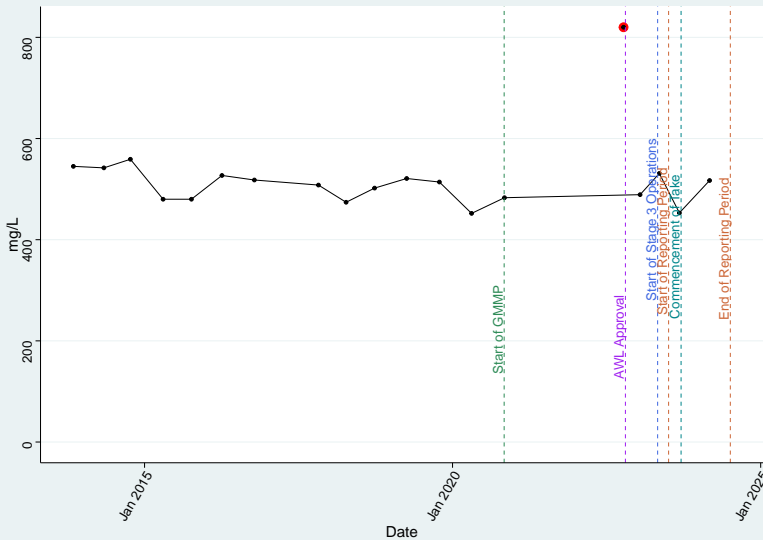
Bore 116P (Acland Coal Sequence) – Mn_diss

Mann Kendall Trend Test | $\tau = 0.336$ | $p\text{-value} = 0.0579$ | No trend



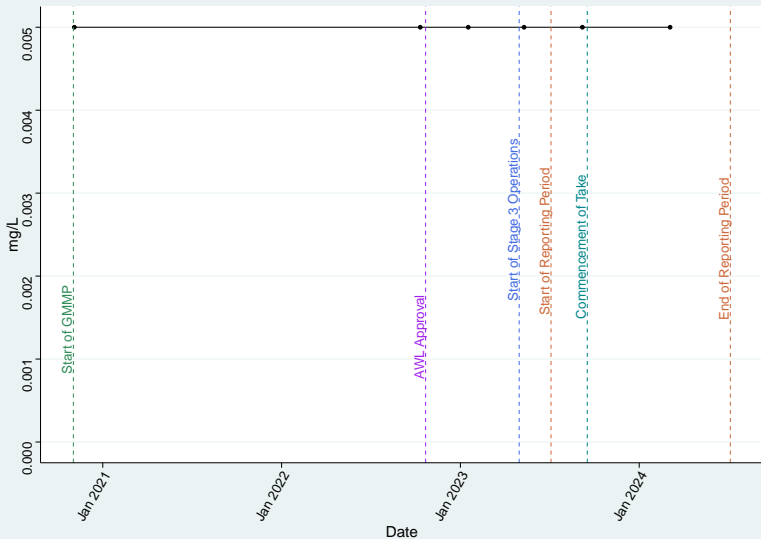
Bore 116P (Acland Coal Sequence) – Na

Mann Kendall Trend Test | $\tau = -0.199$ | $p\text{-value} = 0.248$ | No trend



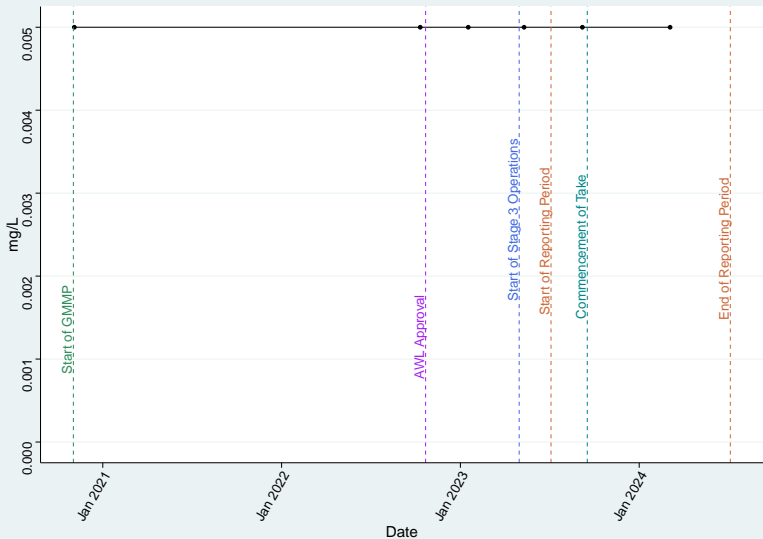
Bore 116P (Acland Coal Sequence) – Nitrate as N

Mann Kendall Trend Test | $\tau = 1$ | $p\text{-value} = 1$ | No trend



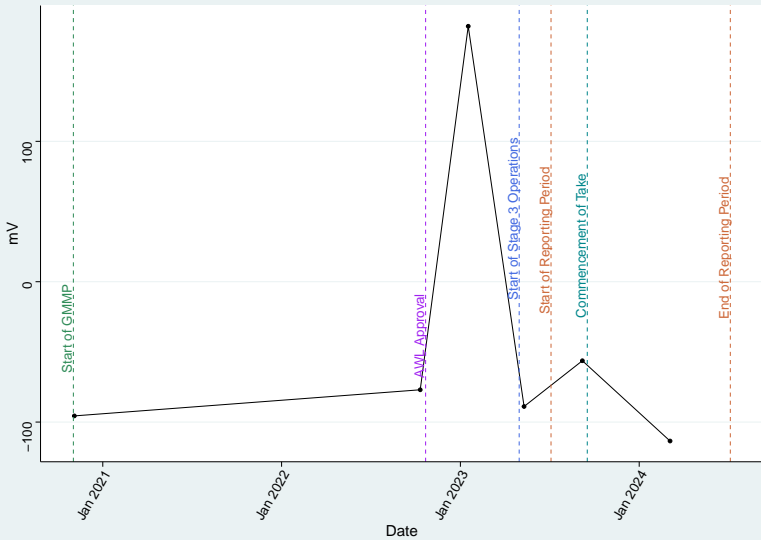
Bore 116P (Acland Coal Sequence) – Nitrite as N

Mann Kendall Trend Test | $\tau = 1$ | $p\text{-value} = 1$ | No trend



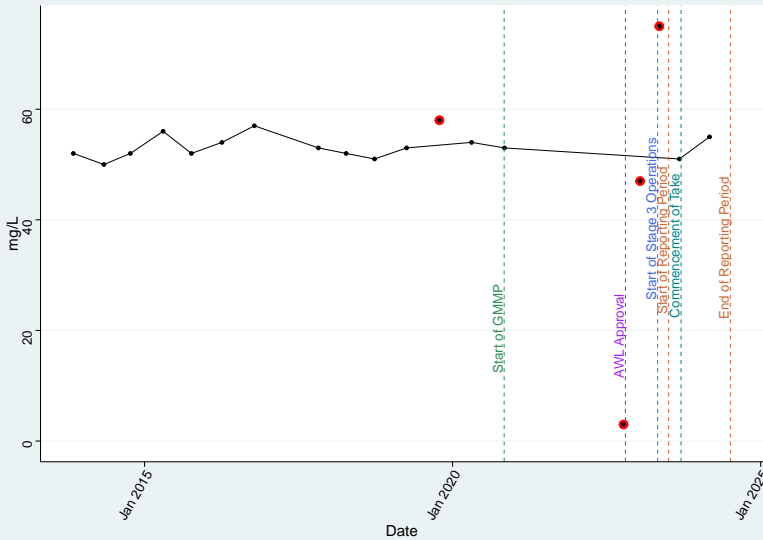
Bore 116P (Acland Coal Sequence) – Redox_Field

Mann Kendall Trend Test | $\tau = -0.0667$ | $p\text{-value} = 1$ | No trend



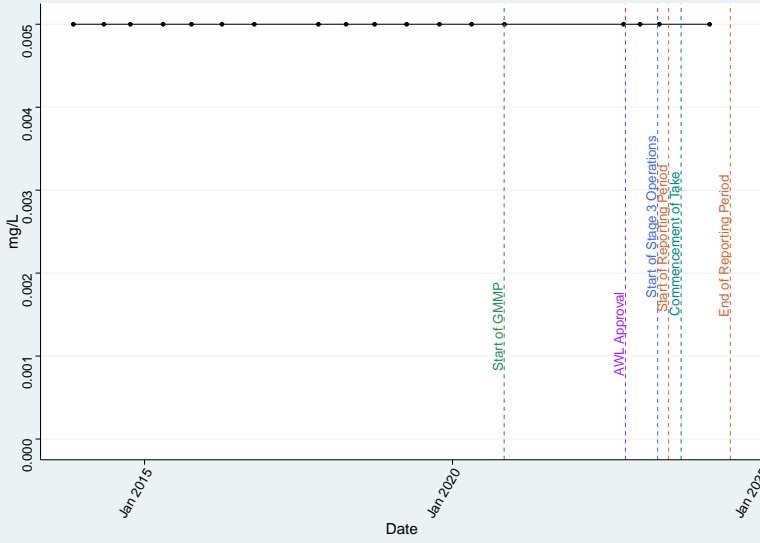
Bore 116P (Acland Coal Sequence) – SO4

Mann Kendall Trend Test | $\tau = 0.0725$ | $p\text{-value} = 0.698$ | No trend



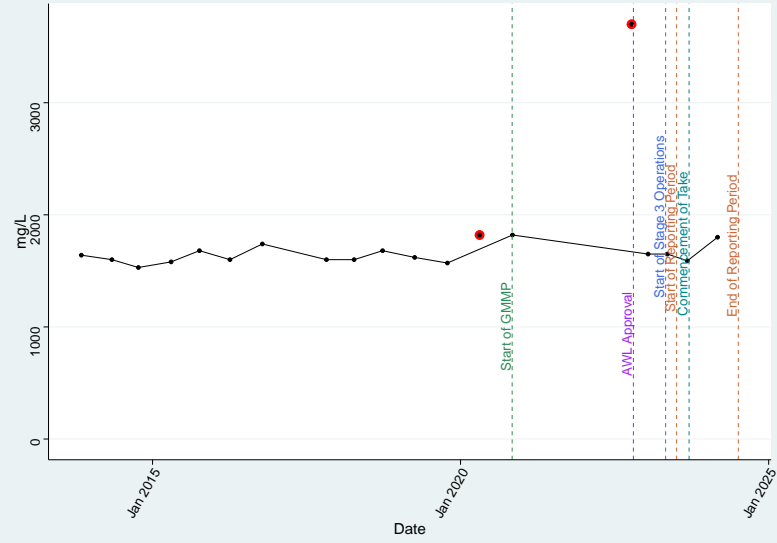
Bore 116P (Acland Coal Sequence) – Se_diss

Mann Kendall Trend Test | $\tau = 1$ | p-value = 1 | No trend



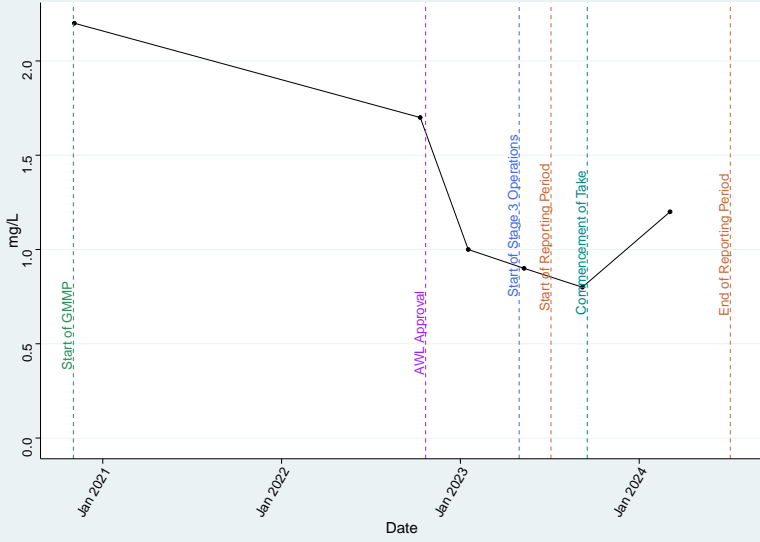
Bore 116P (Acland Coal Sequence) – TDS

Mann Kendall Trend Test | $\tau = 0.288$ | p-value = 0.0977 | No trend



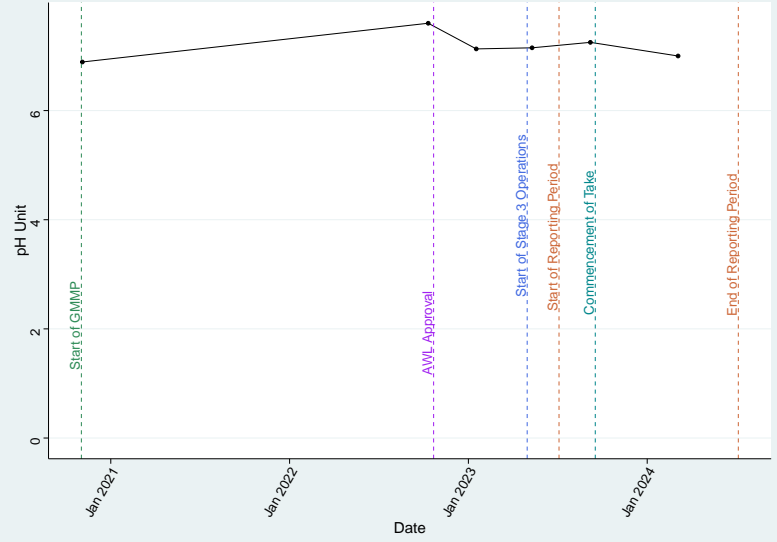
Bore 116P (Acland Coal Sequence) – TKN

Mann Kendall Trend Test | $\tau = -0.6$ | p-value = 0.133 | No trend



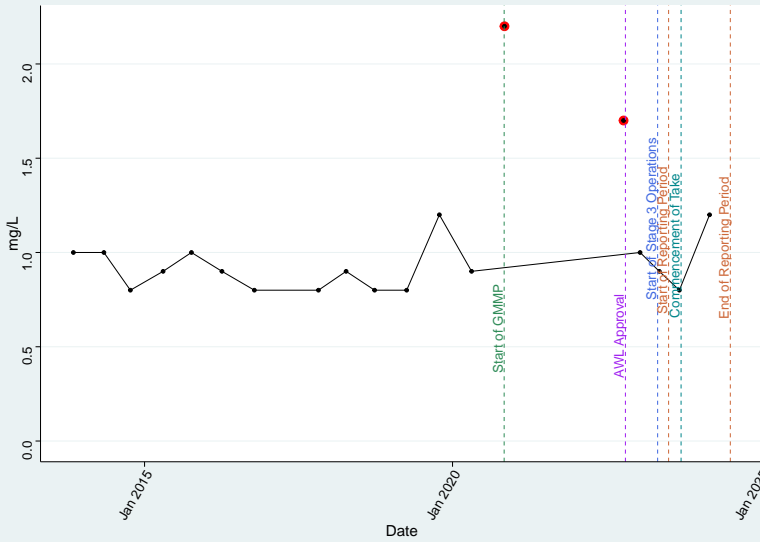
Bore 116P (Acland Coal Sequence) – pH_Field

Mann Kendall Trend Test | $\tau = 0.0667$ | p-value = 1 | No trend



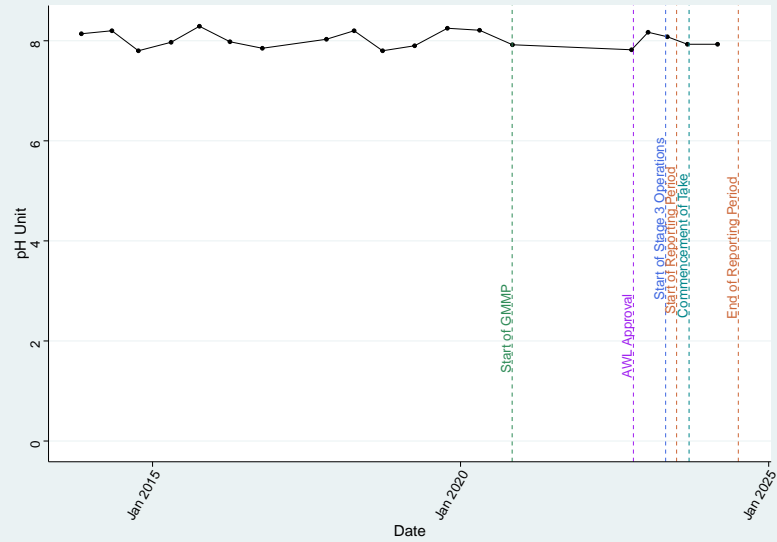
Bore 116P (Acland Coal Sequence) – Total_N

Mann Kendall Trend Test | $\tau = 0.11$ | p-value = 0.562 | No trend



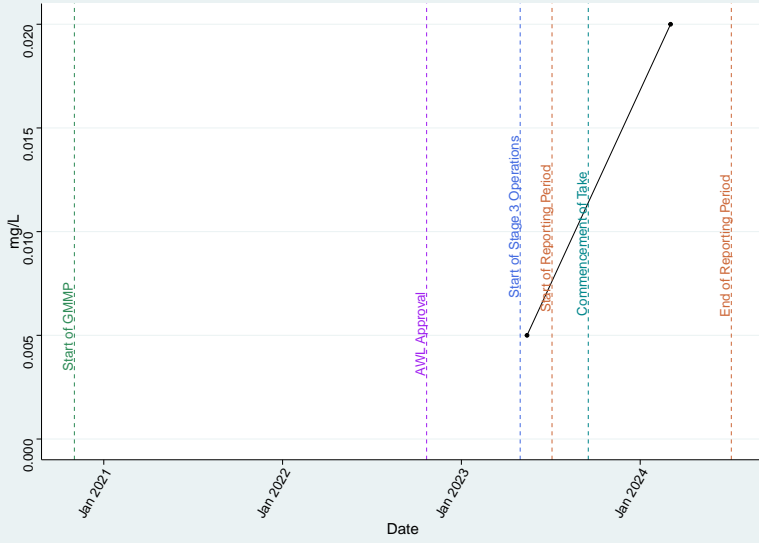
Bore 116P (Acland Coal Sequence) – pH_Lab

Mann Kendall Trend Test | $\tau = -0.059$ | p-value = 0.752 | No trend



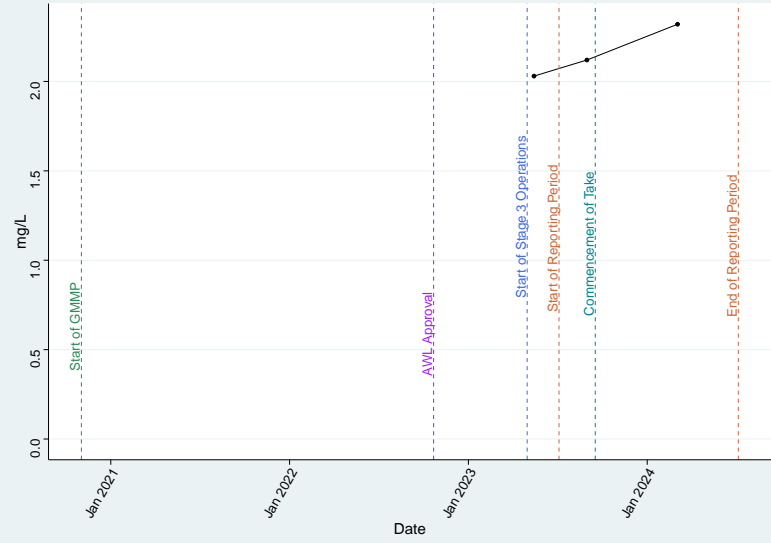
Bore 118P (Acland Coal Sequence) – Al_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



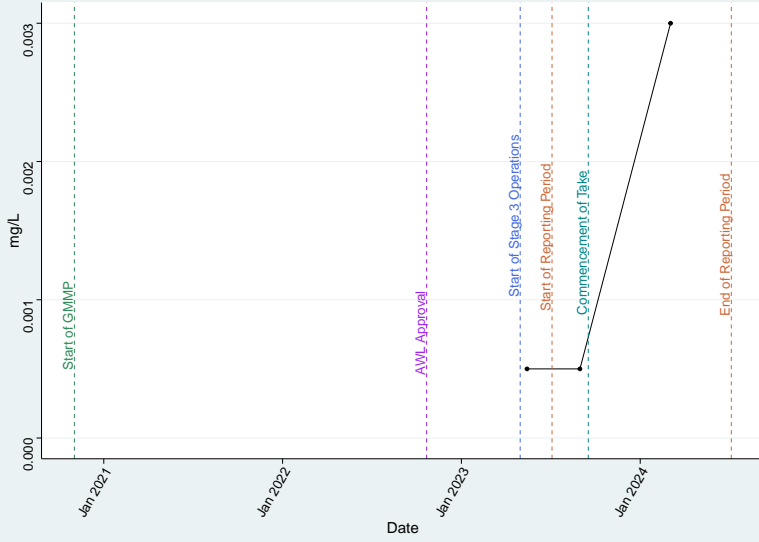
Bore 118P (Acland Coal Sequence) – Ammonia as N

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



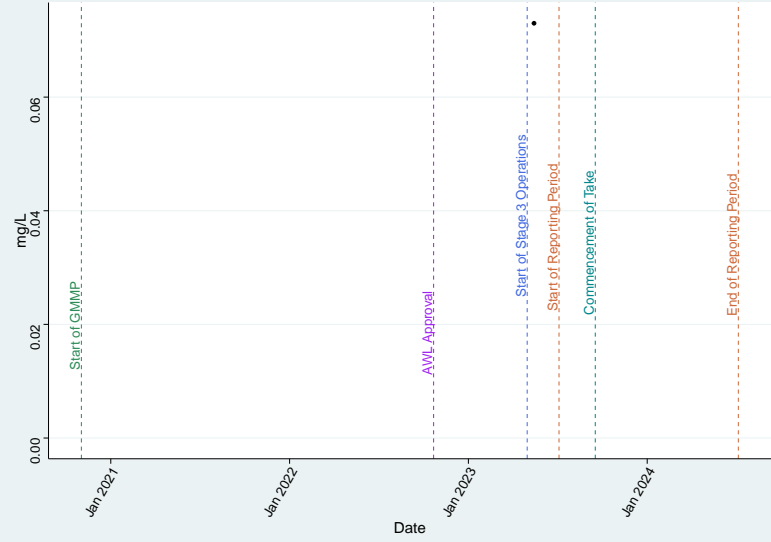
Bore 118P (Acland Coal Sequence) – As_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



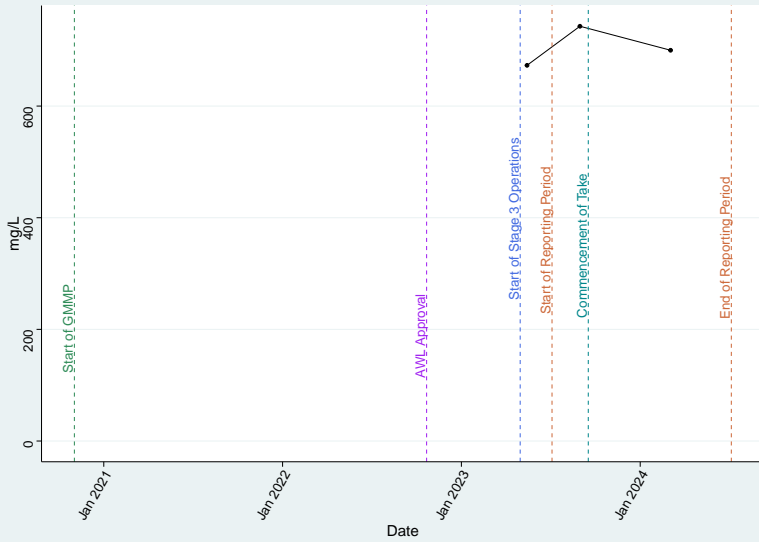
Bore 118P (Acland Coal Sequence) – Ba_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



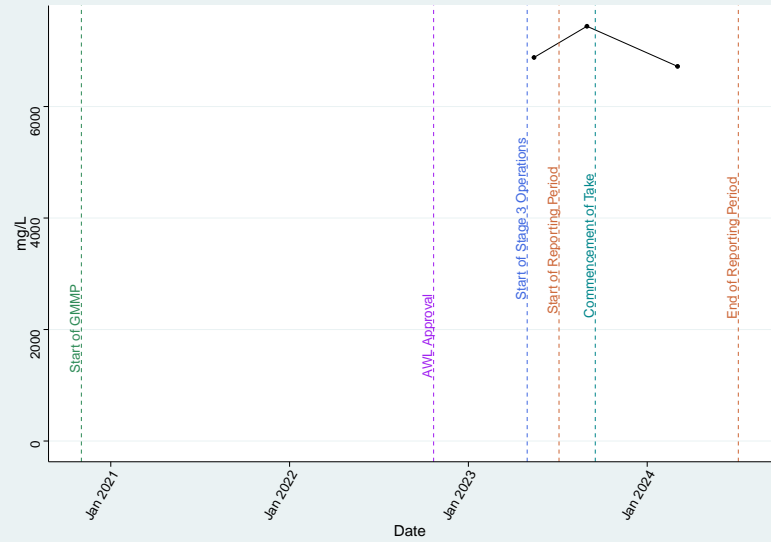
Bore 118P (Acland Coal Sequence) – Ca

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



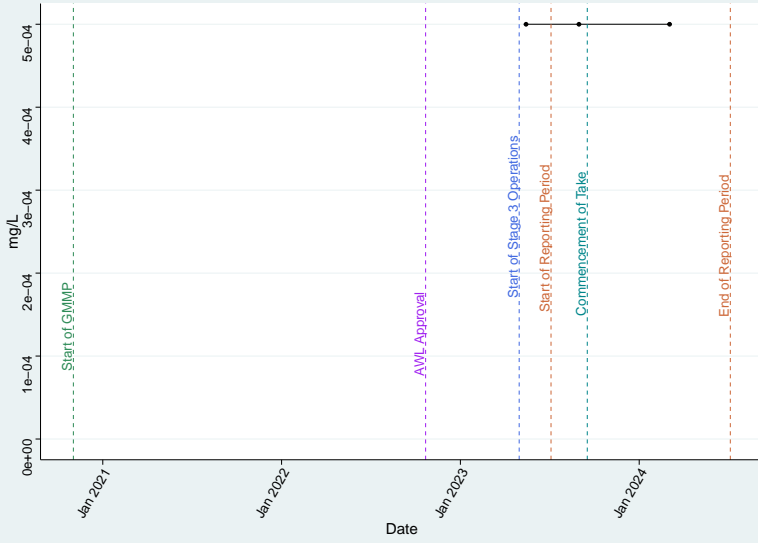
Bore 118P (Acland Coal Sequence) – Cl

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



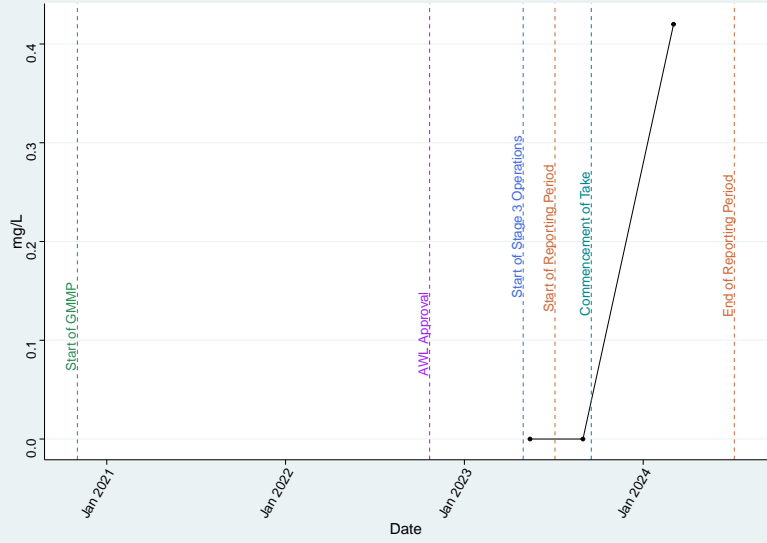
Bore 118P (Acland Coal Sequence) – Cu_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



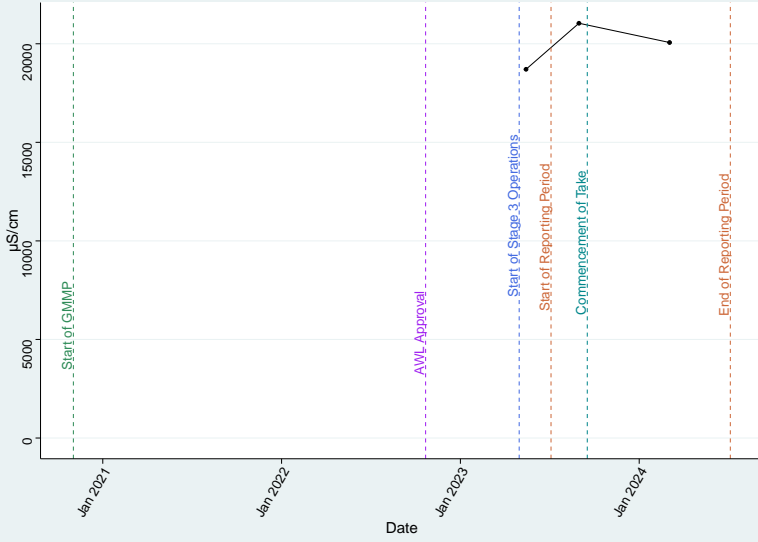
Bore 118P (Acland Coal Sequence) – DO_Field

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



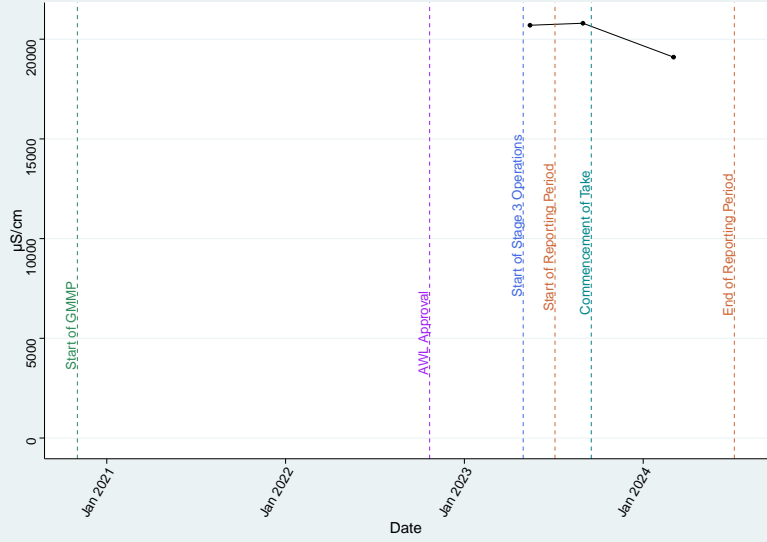
Bore 118P (Acland Coal Sequence) – EC_Field

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



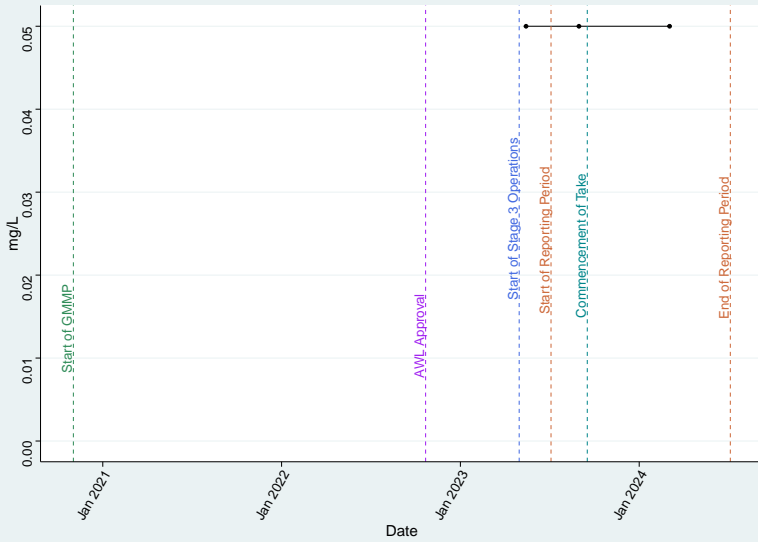
Bore 118P (Acland Coal Sequence) – EC_Lab

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



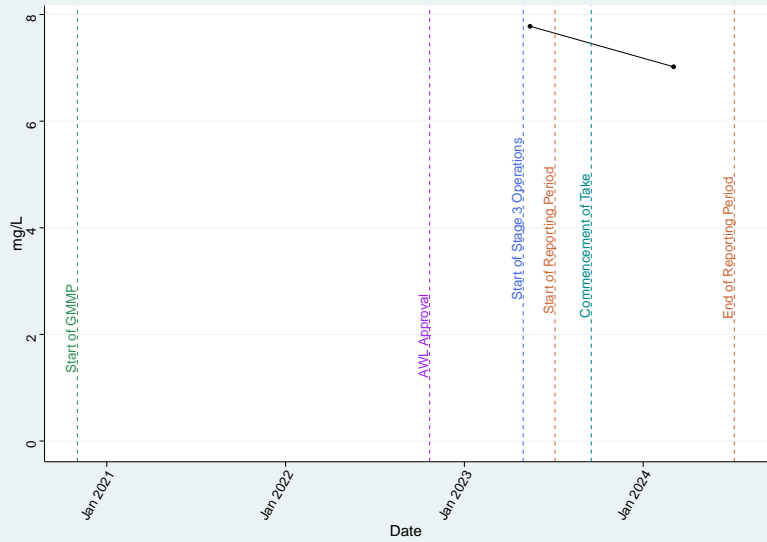
Bore 118P (Acland Coal Sequence) – F

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



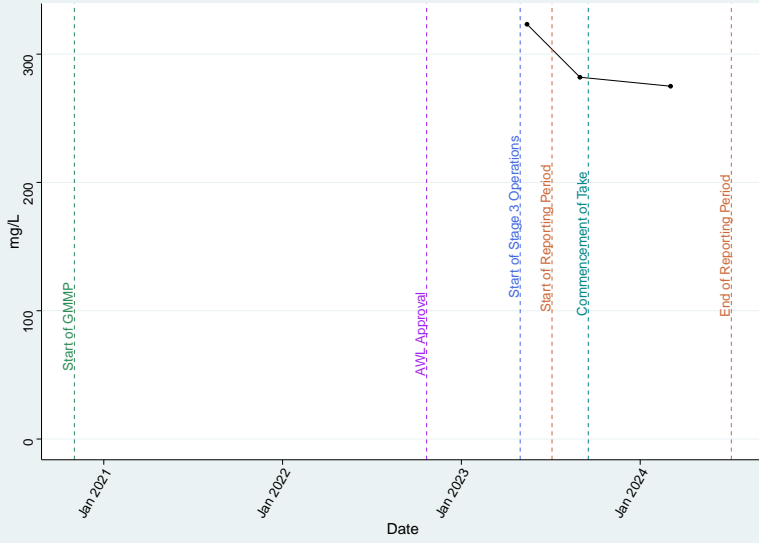
Bore 118P (Acland Coal Sequence) – Fe_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



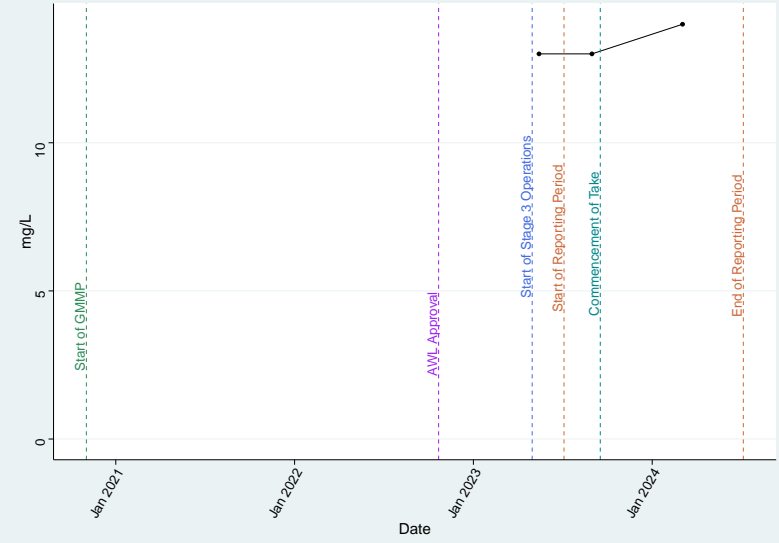
Bore 118P (Acland Coal Sequence) – HCO3

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



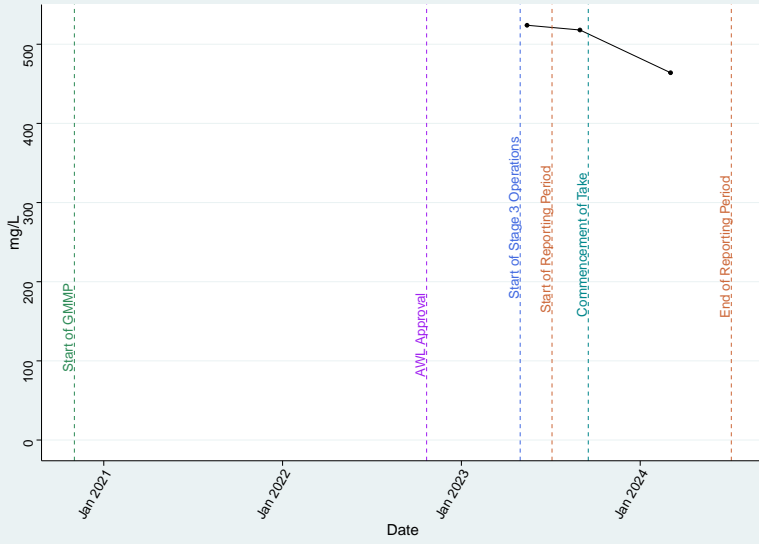
Bore 118P (Acland Coal Sequence) – K

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



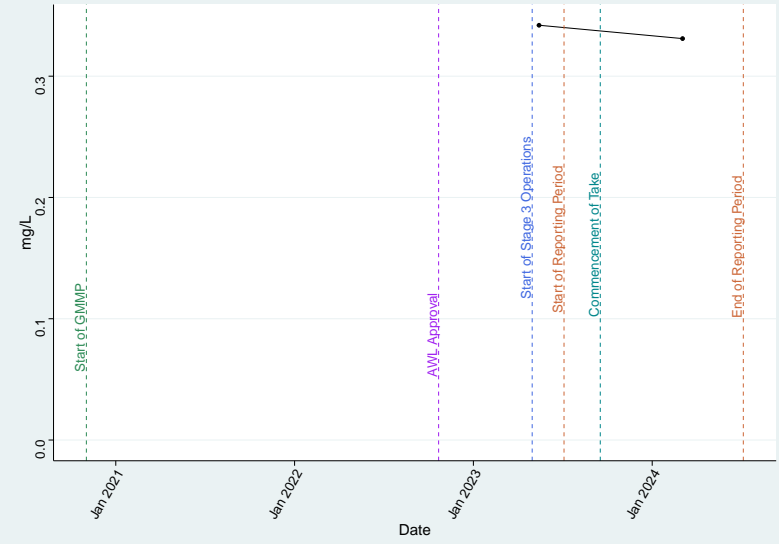
Bore 118P (Acland Coal Sequence) – Mg

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



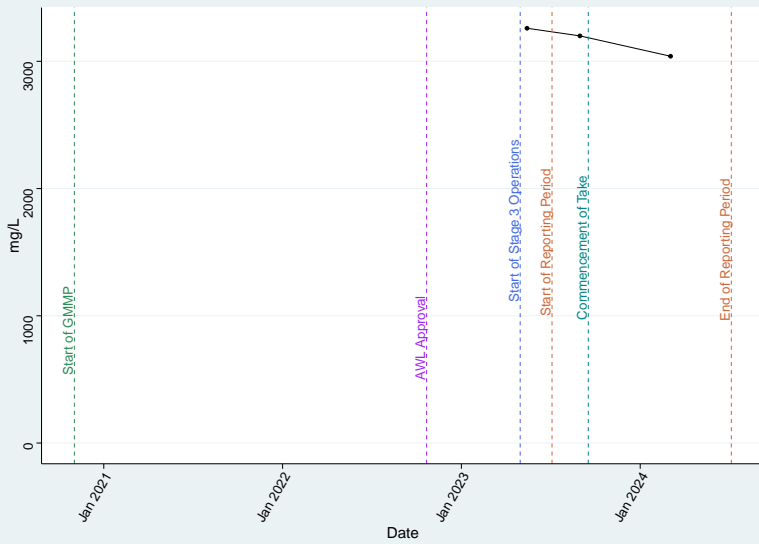
Bore 118P (Acland Coal Sequence) – Mn_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



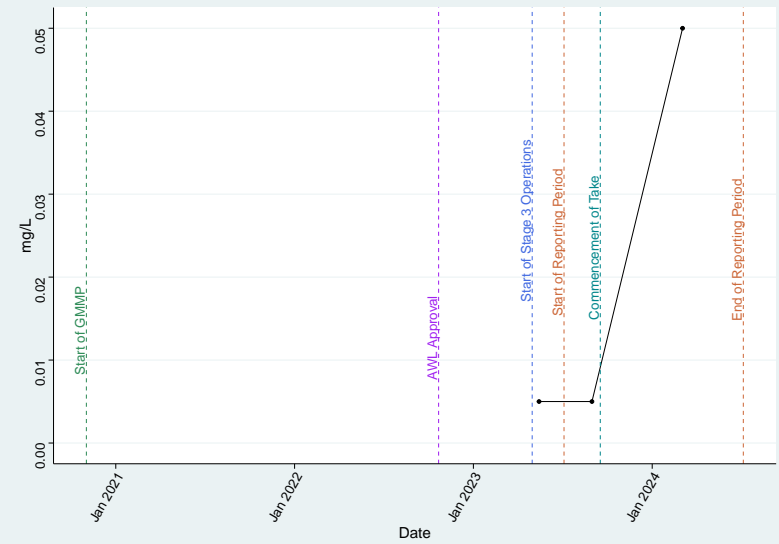
Bore 118P (Acland Coal Sequence) – Na

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



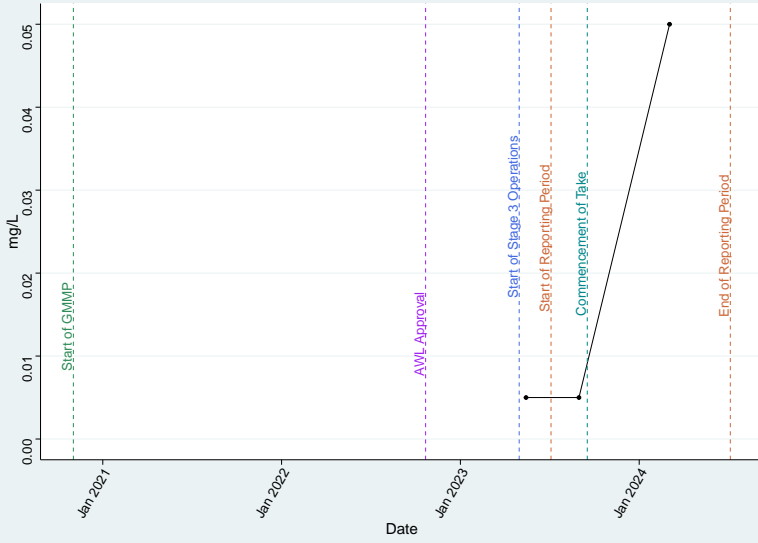
Bore 118P (Acland Coal Sequence) – Nitrate as N

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



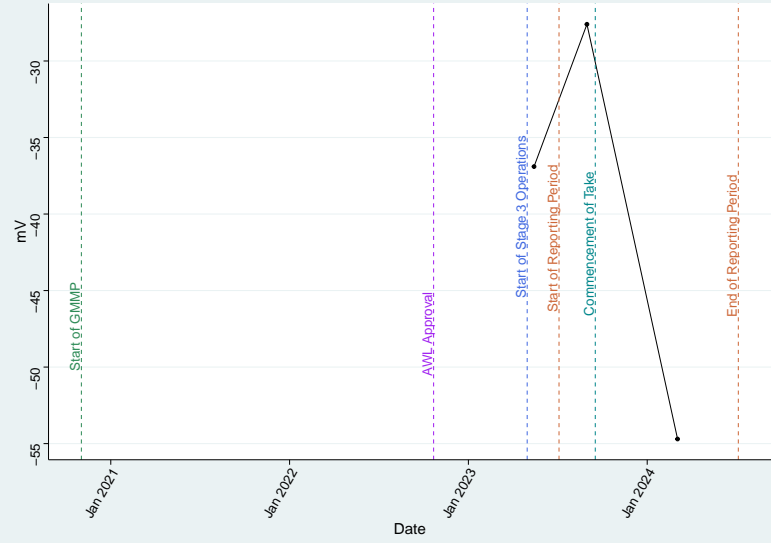
Bore 118P (Acland Coal Sequence) – Nitrite as N

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



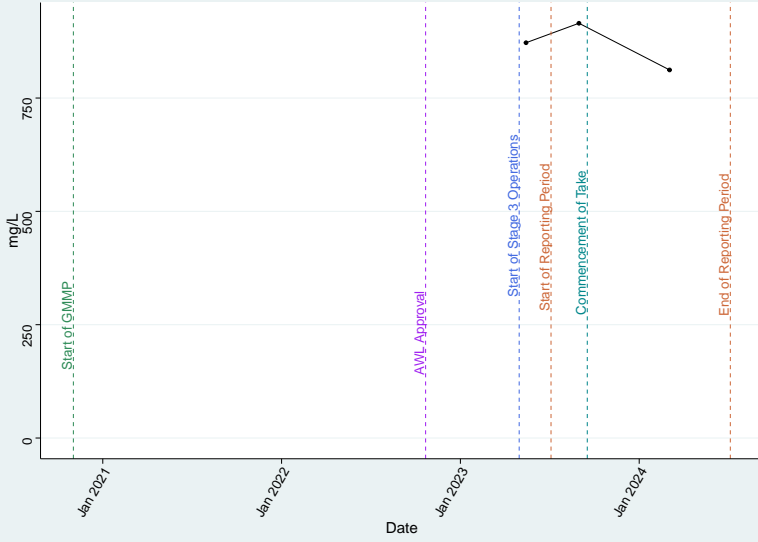
Bore 118P (Acland Coal Sequence) – Redox_Field

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



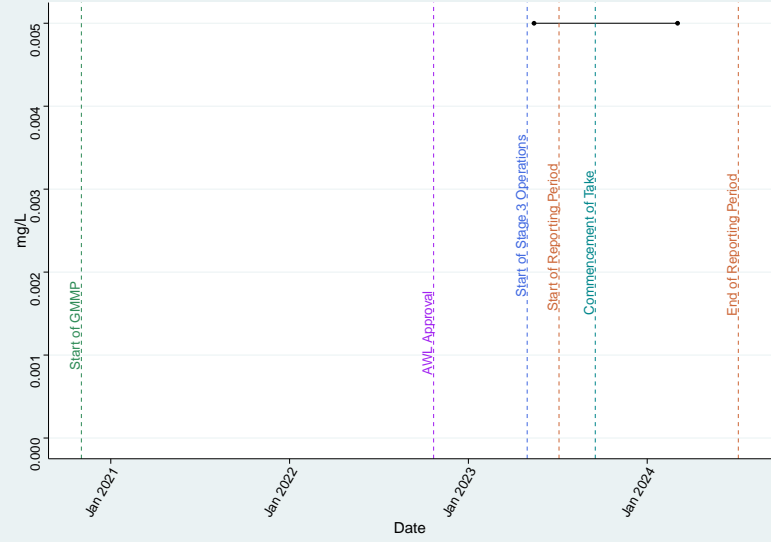
Bore 118P (Acland Coal Sequence) – SO4

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



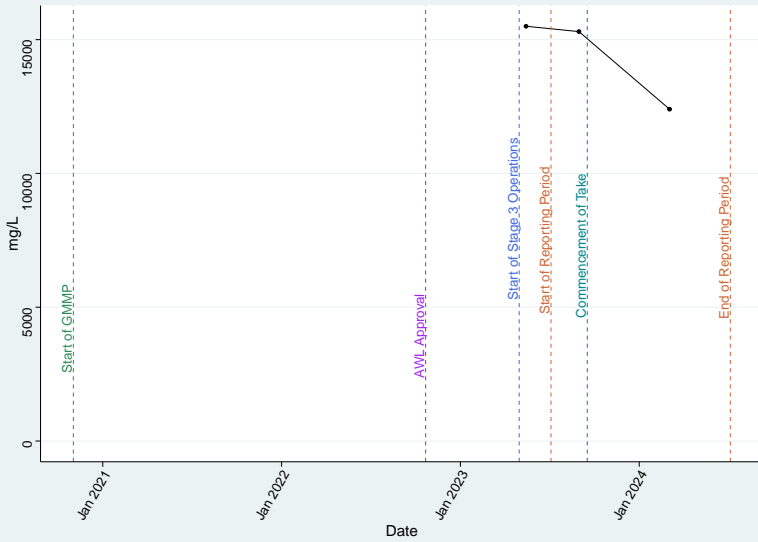
Bore 118P (Acland Coal Sequence) – Se_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



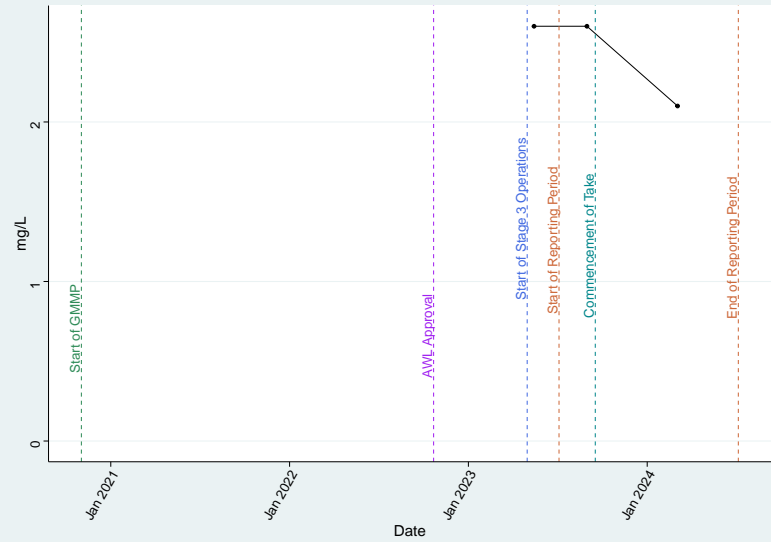
Bore 118P (Acland Coal Sequence) – TDS

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



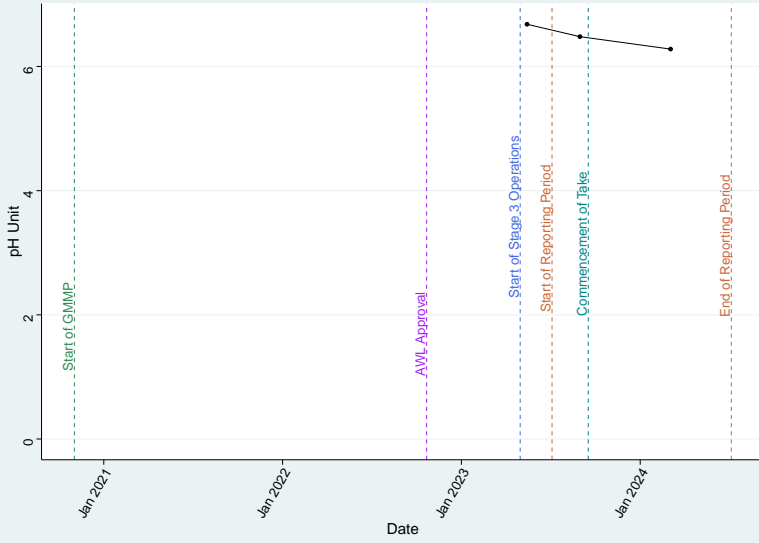
Bore 118P (Acland Coal Sequence) – TKN

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



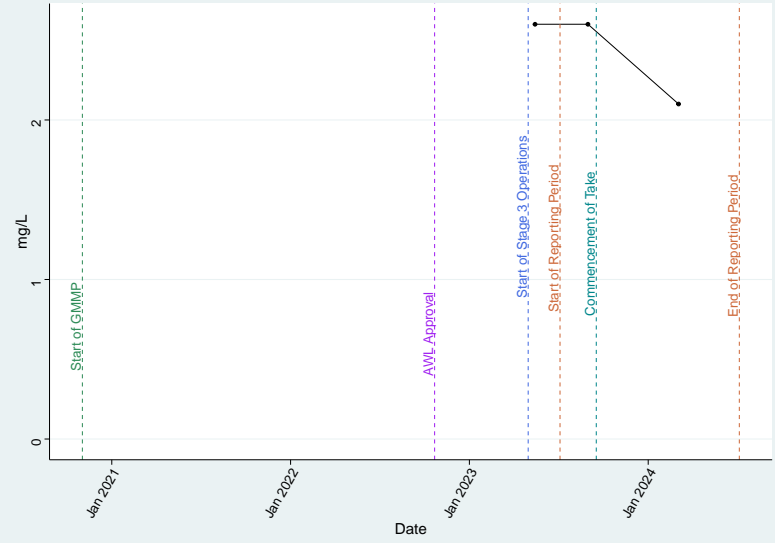
Bore 118P (Acland Coal Sequence) – pH_Field

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



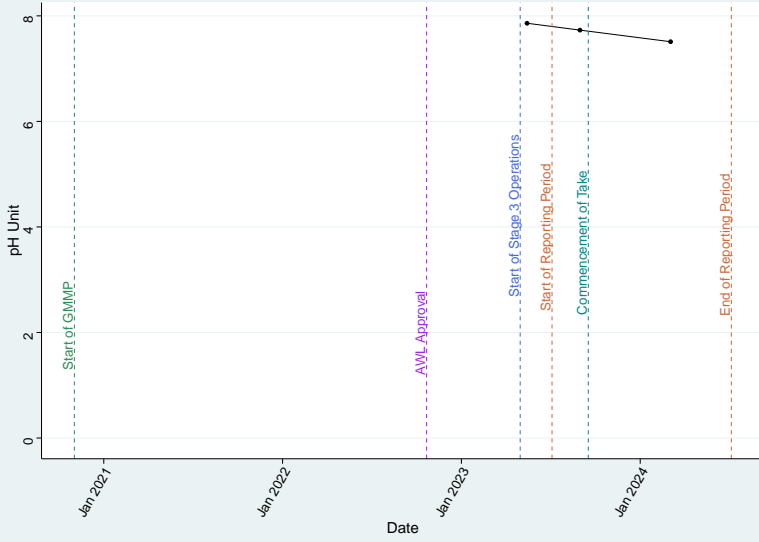
Bore 118P (Acland Coal Sequence) – Total_N

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



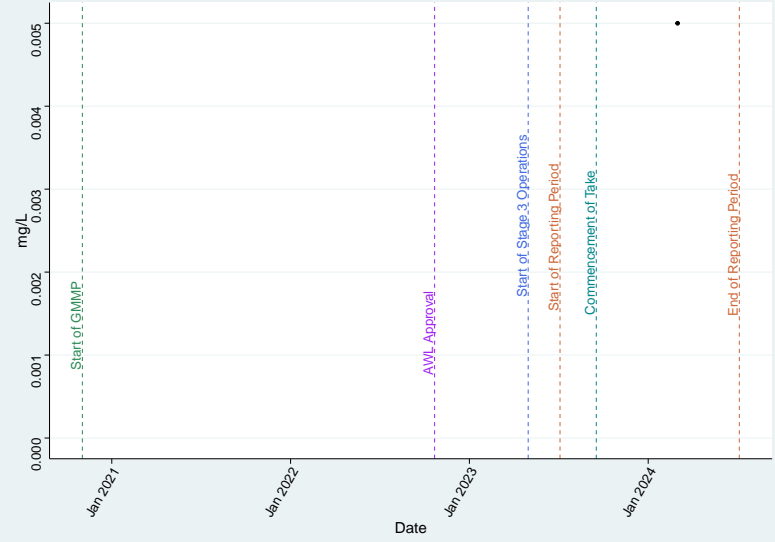
Bore 118P (Acland Coal Sequence) – pH_Lab

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



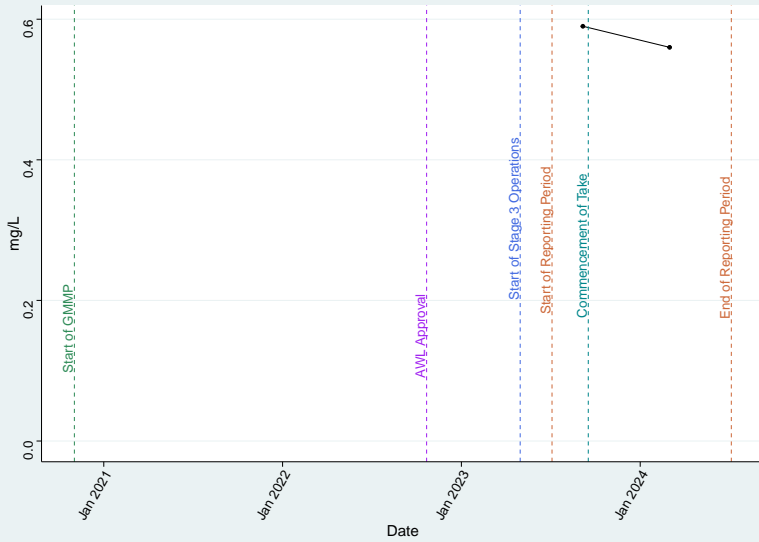
Bore 119P (Acland Coal Sequence) – Al_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



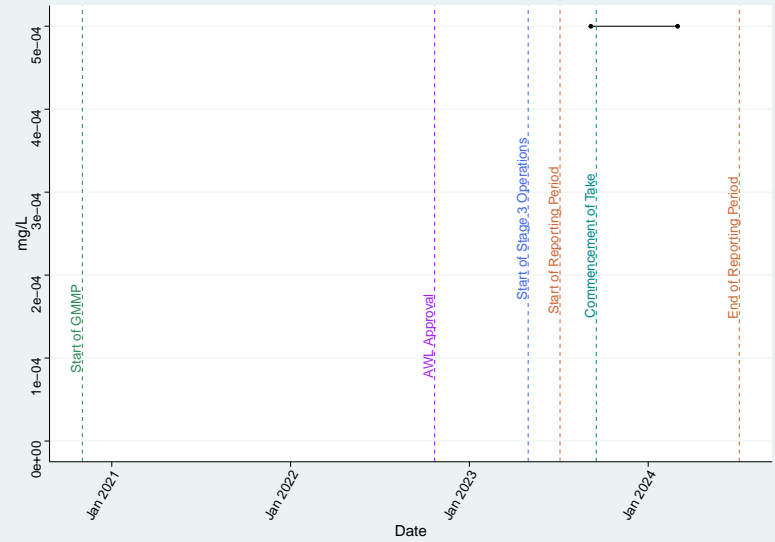
Bore 119P (Acland Coal Sequence) – Ammonia as N

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



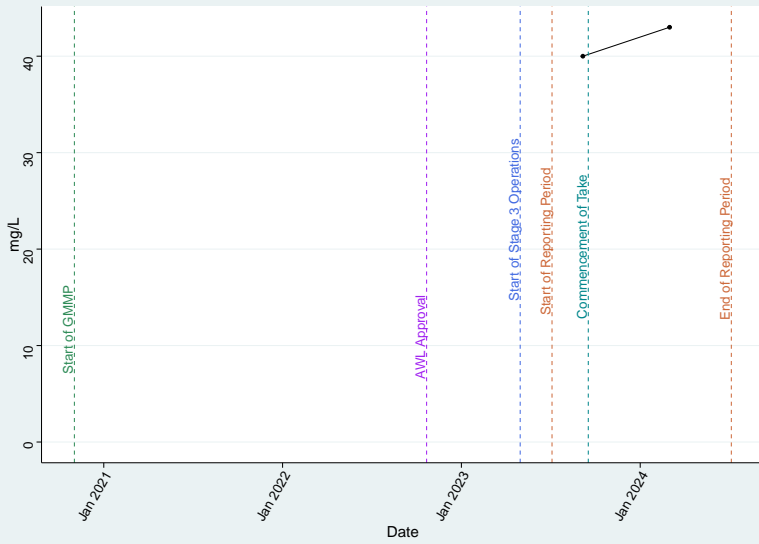
Bore 119P (Acland Coal Sequence) – As_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



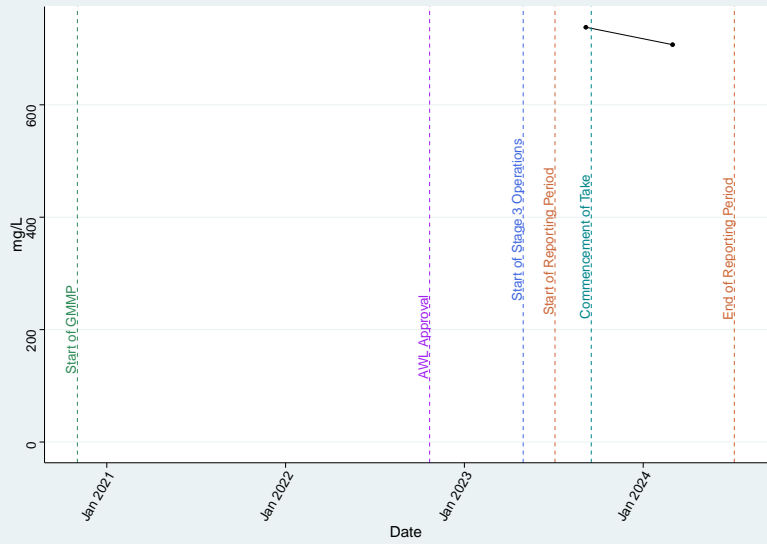
Bore 119P (Acland Coal Sequence) – Ca

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



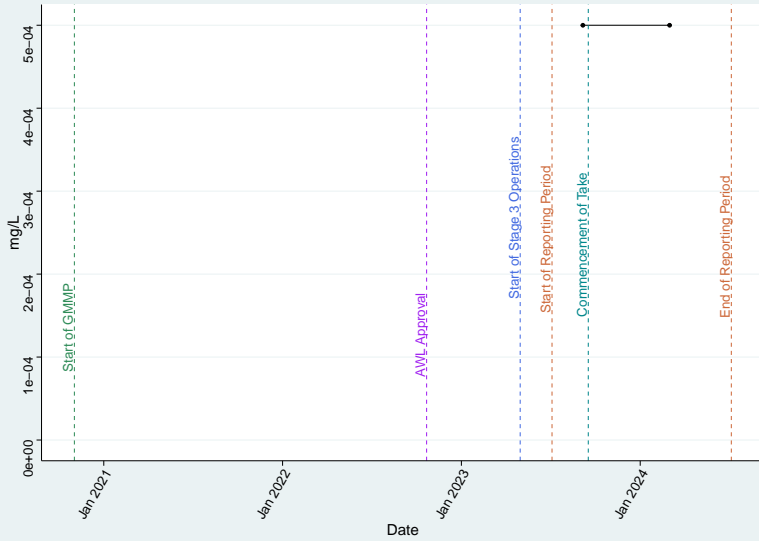
Bore 119P (Acland Coal Sequence) – Cl

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



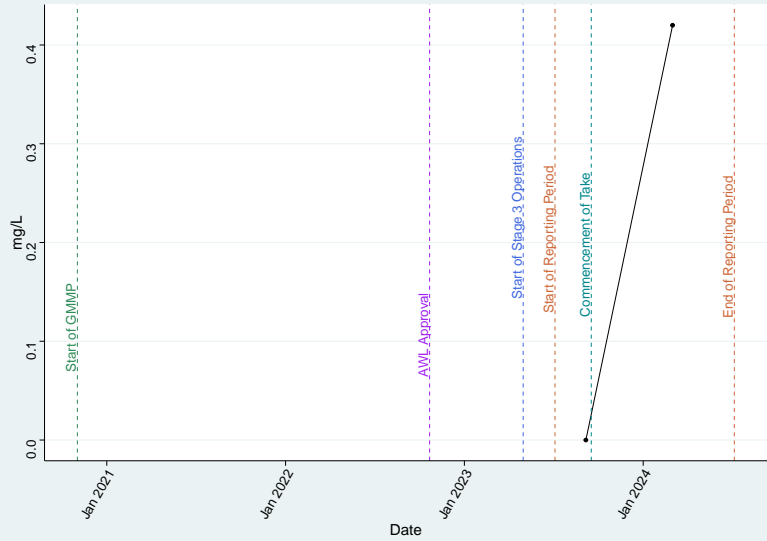
Bore 119P (Acland Coal Sequence) – Cu_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



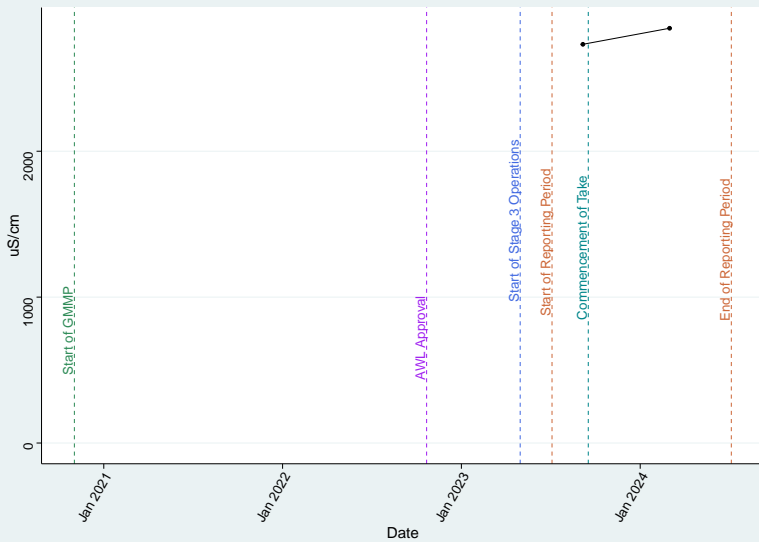
Bore 119P (Acland Coal Sequence) – DO_Field

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



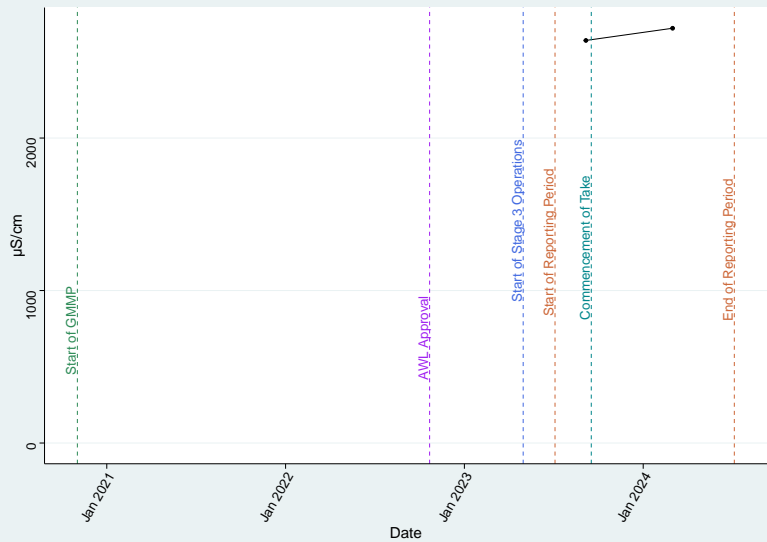
Bore 119P (Acland Coal Sequence) – EC_Field

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



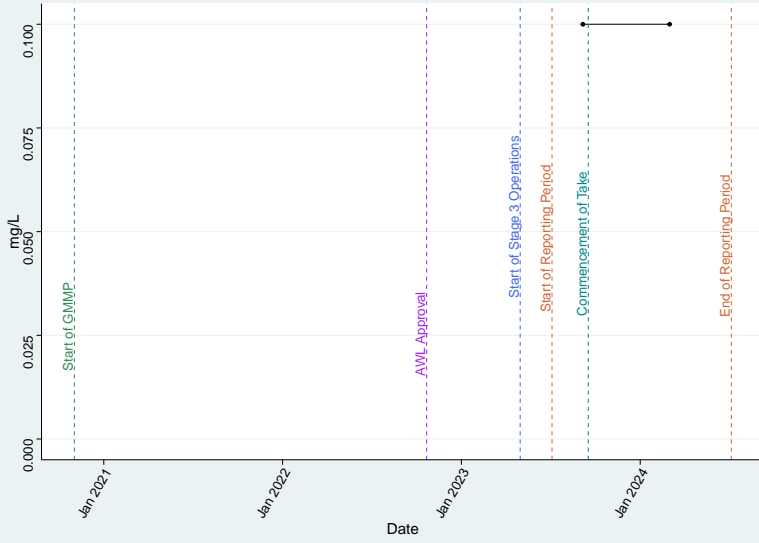
Bore 119P (Acland Coal Sequence) – EC_Lab

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



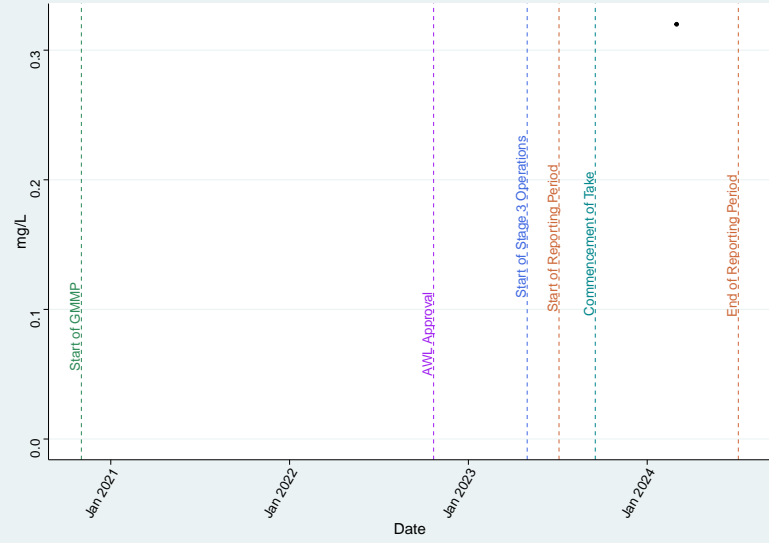
Bore 119P (Acland Coal Sequence) – F

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



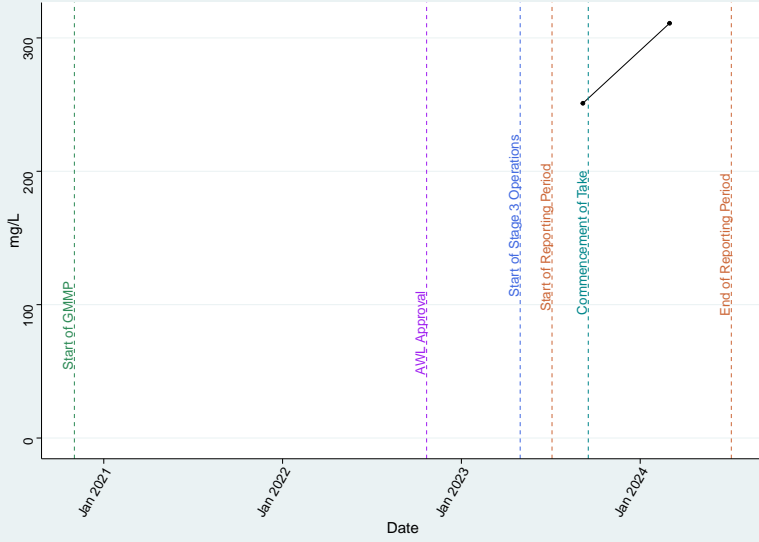
Bore 119P (Acland Coal Sequence) – Fe_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



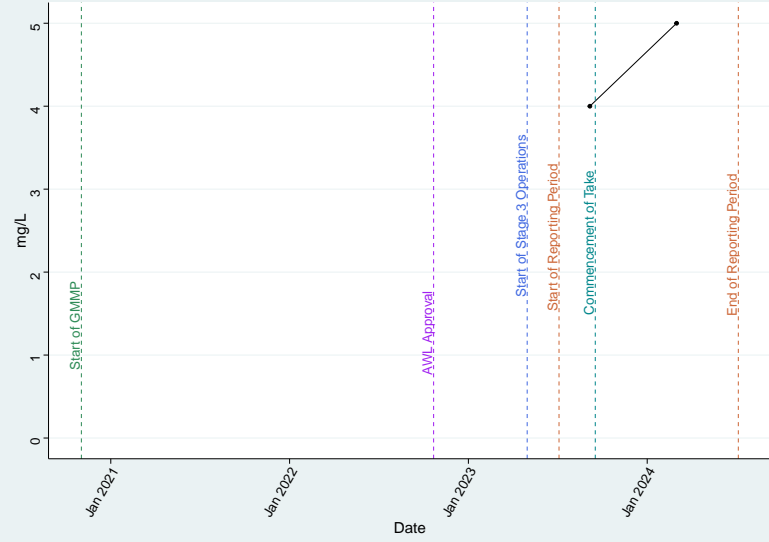
Bore 119P (Acland Coal Sequence) – HCO3

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



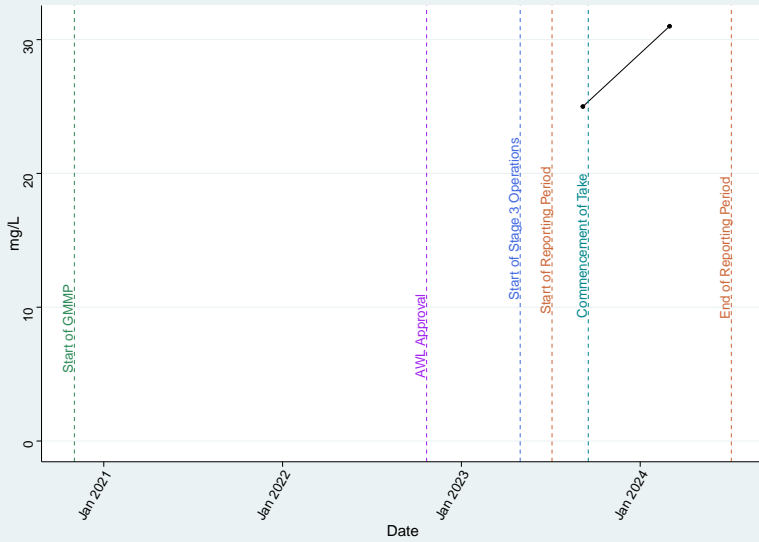
Bore 119P (Acland Coal Sequence) – K

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



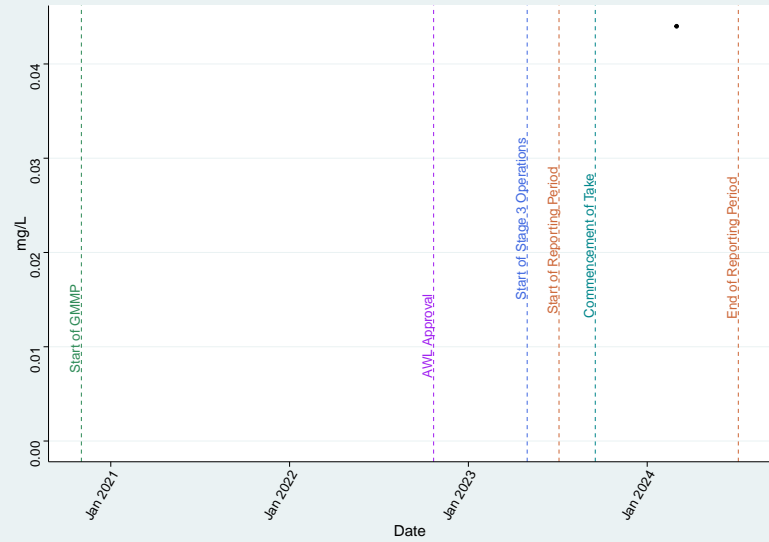
Bore 119P (Acland Coal Sequence) – Mg

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



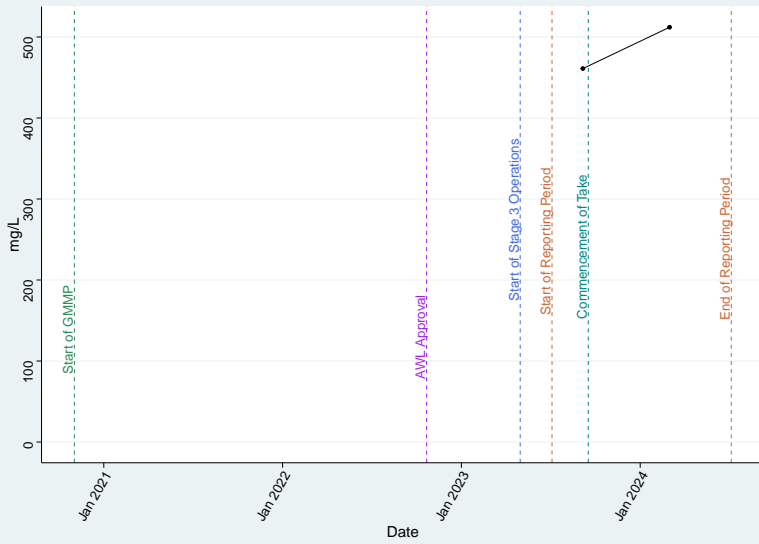
Bore 119P (Acland Coal Sequence) – Mn_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



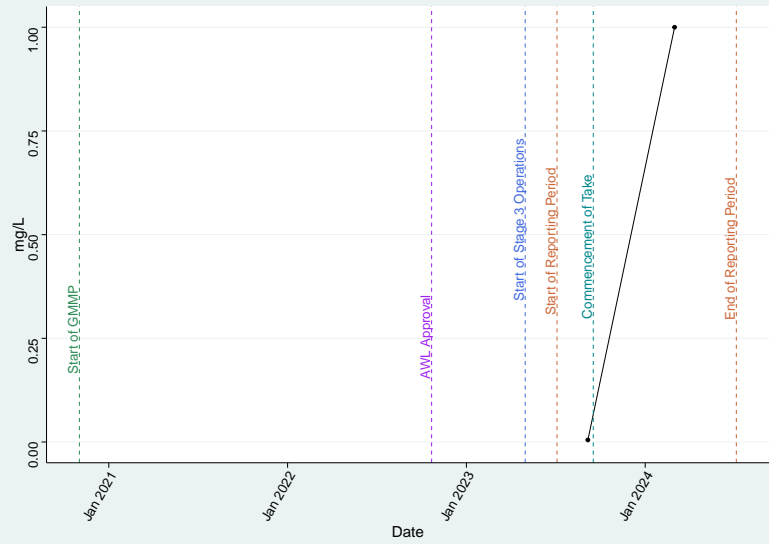
Bore 119P (Acland Coal Sequence) – Na

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



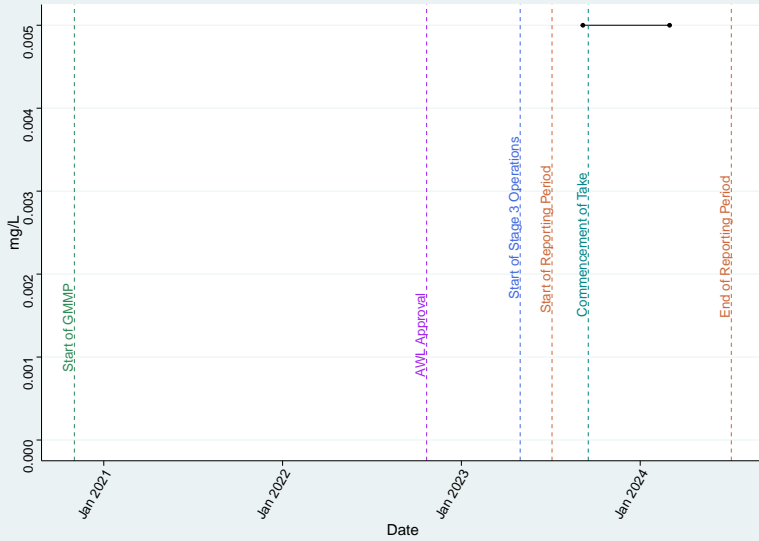
Bore 119P (Acland Coal Sequence) – Nitrate as N

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



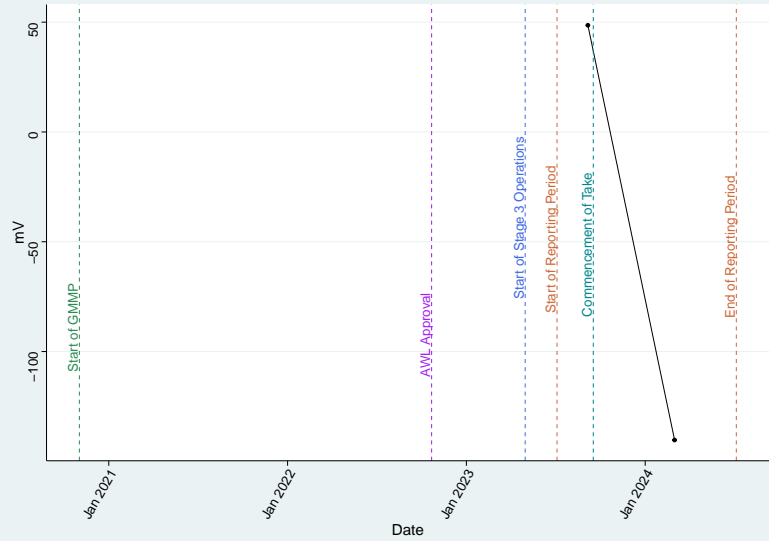
Bore 119P (Acland Coal Sequence) – Nitrite as N

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



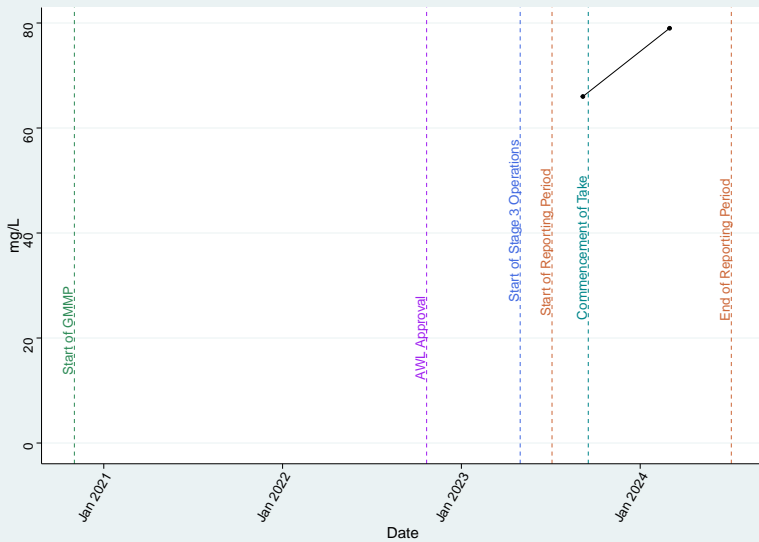
Bore 119P (Acland Coal Sequence) – Redox_Field

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



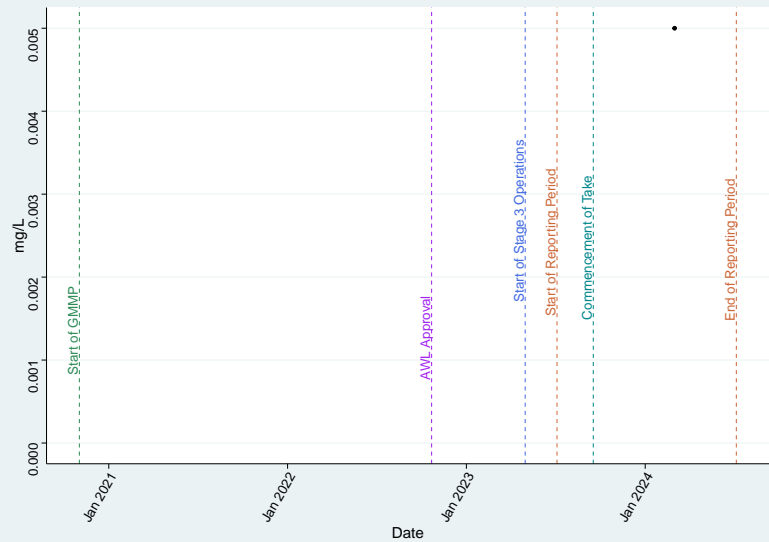
Bore 119P (Acland Coal Sequence) – SO4

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



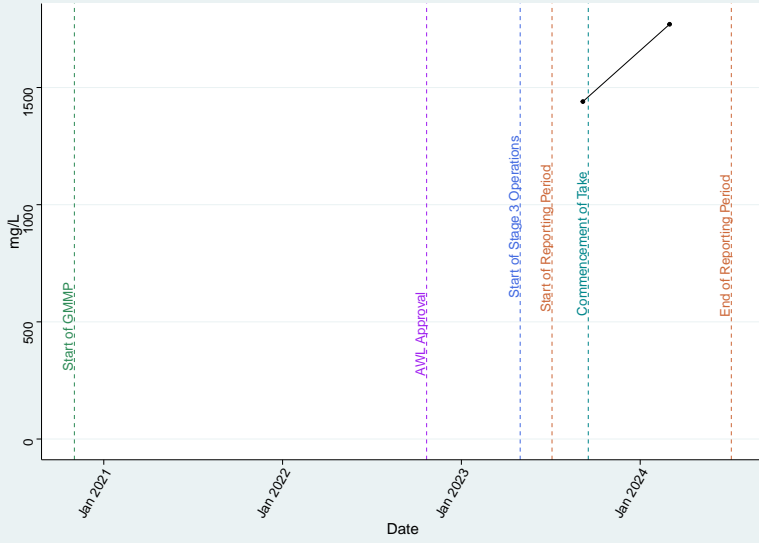
Bore 119P (Acland Coal Sequence) – Se_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



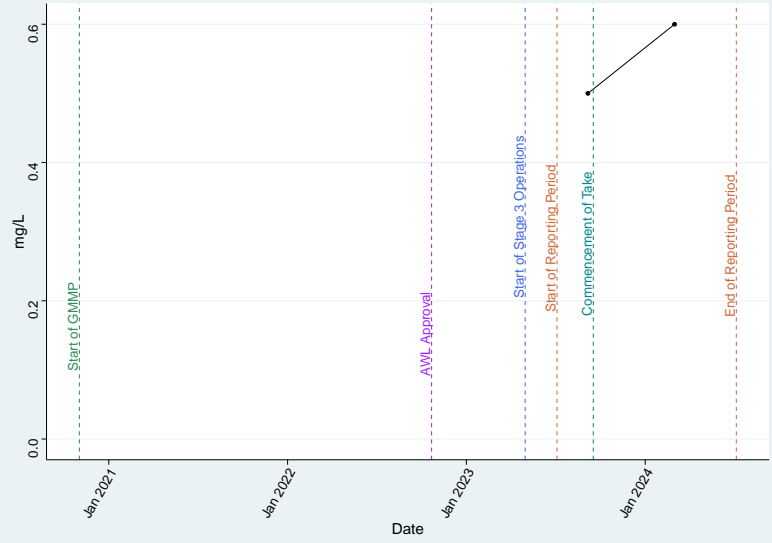
Bore 119P (Acland Coal Sequence) – TDS

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



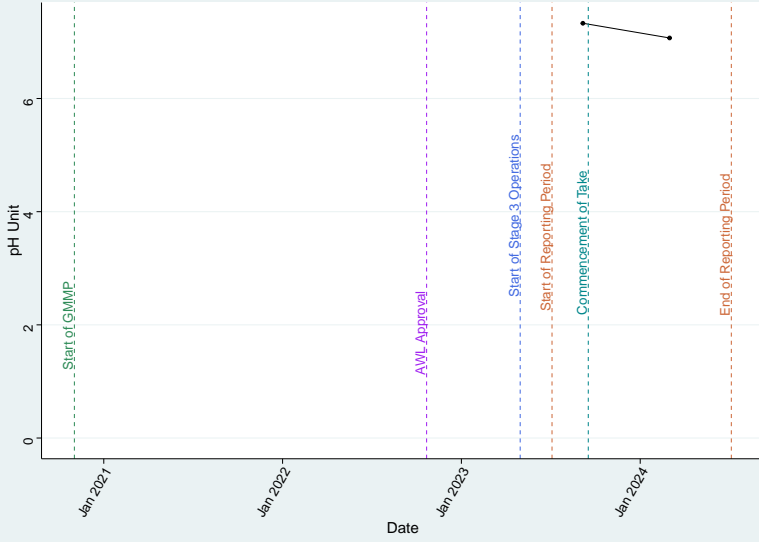
Bore 119P (Acland Coal Sequence) – TKN

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



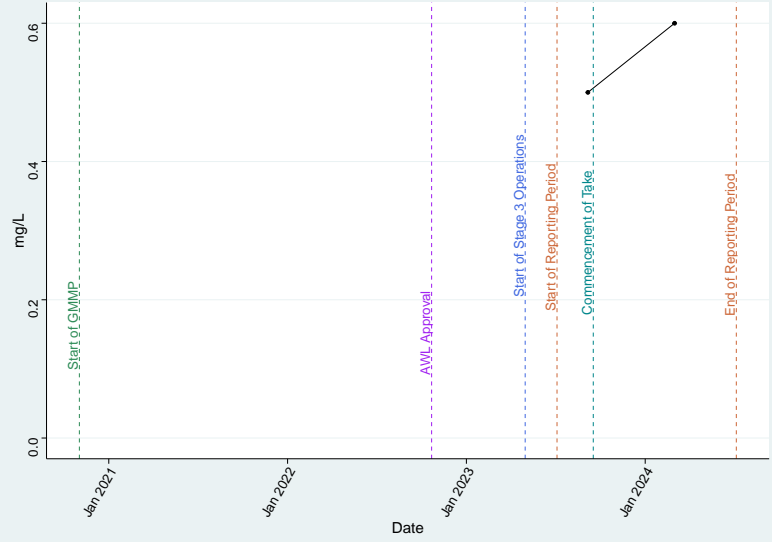
Bore 119P (Acland Coal Sequence) – pH_Field

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



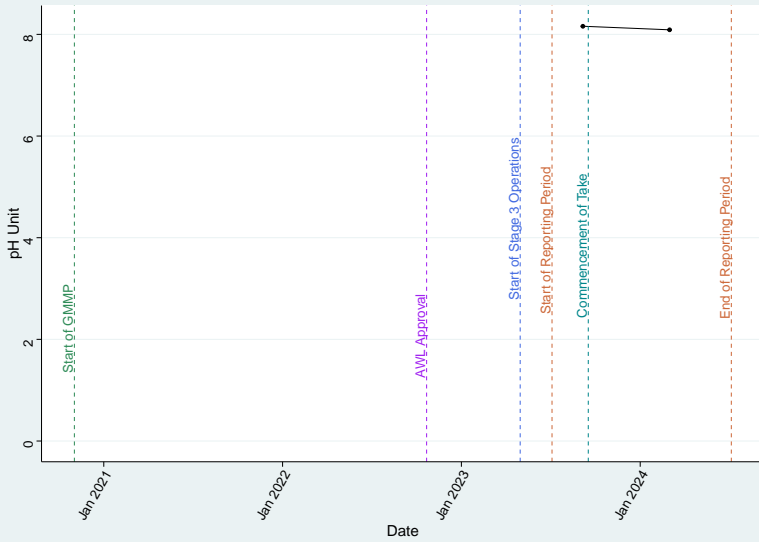
Bore 119P (Acland Coal Sequence) – Total_N

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



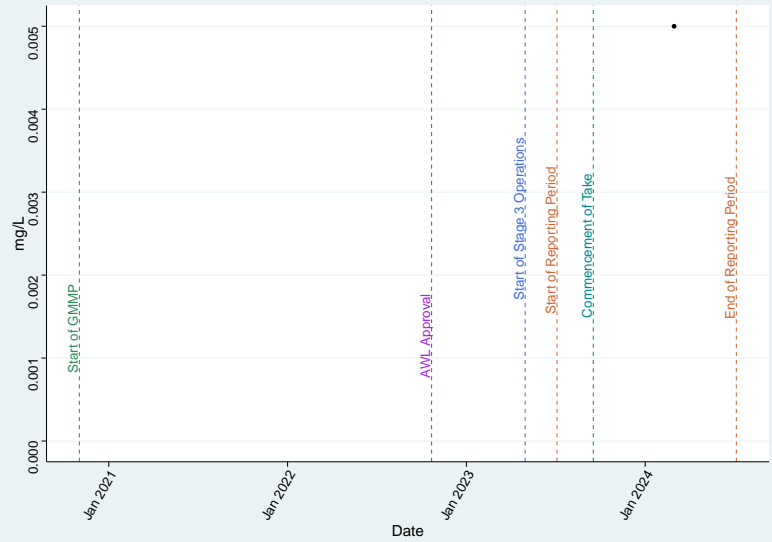
Bore 119P (Acland Coal Sequence) – pH_Lab

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



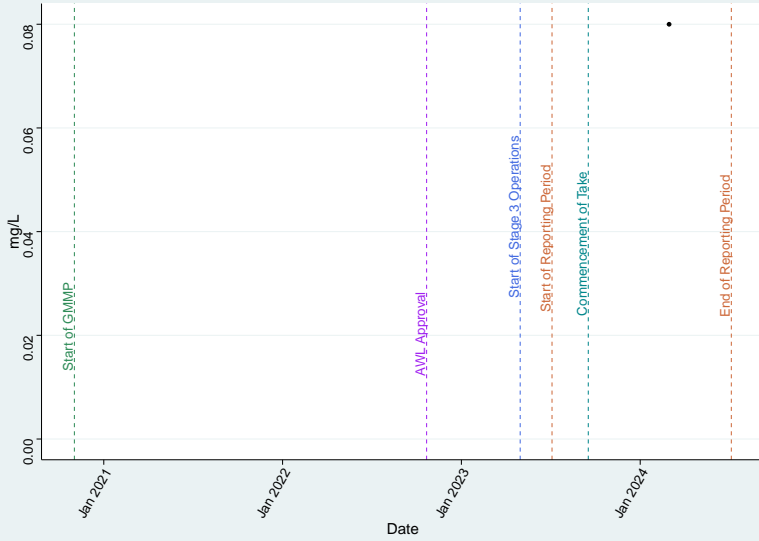
Bore 130WBR (Marburg Sandstone) – Al_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



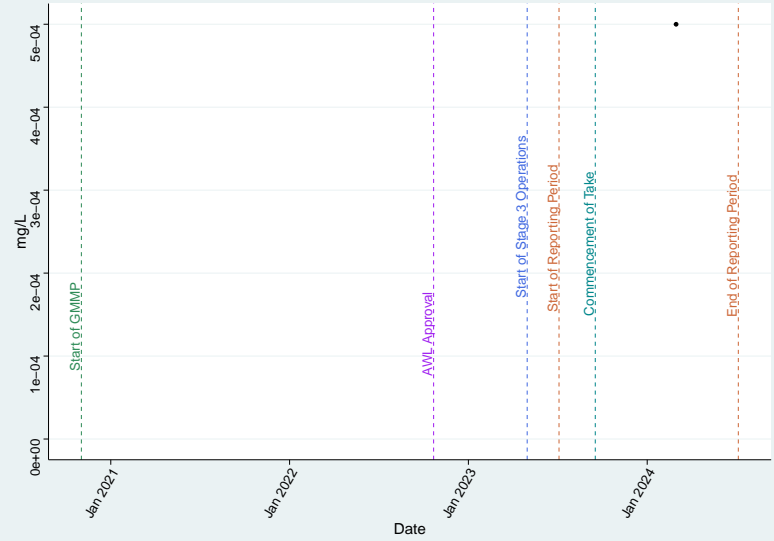
Bore 130WBR (Marburg Sandstone) – Ammonia as N

Mann Kendall Trend Test | τ = Not enough data | p -value = Not enough data | Not evaluated



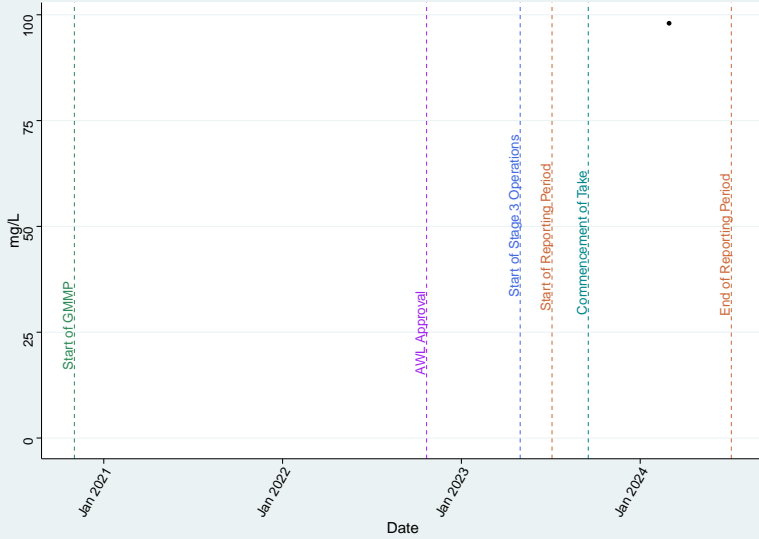
Bore 130WBR (Marburg Sandstone) – As_diss

Mann Kendall Trend Test | τ = Not enough data | p -value = Not enough data | Not evaluated



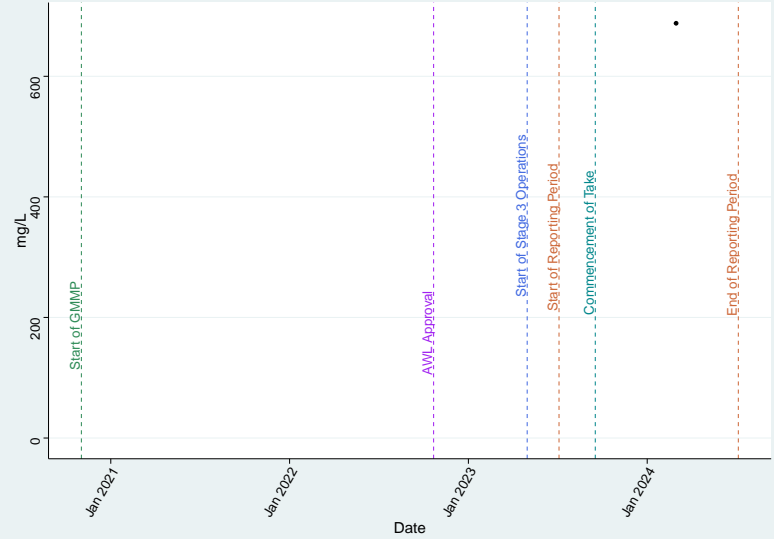
Bore 130WBR (Marburg Sandstone) – Ca

Mann Kendall Trend Test | τ = Not enough data | p -value = Not enough data | Not evaluated



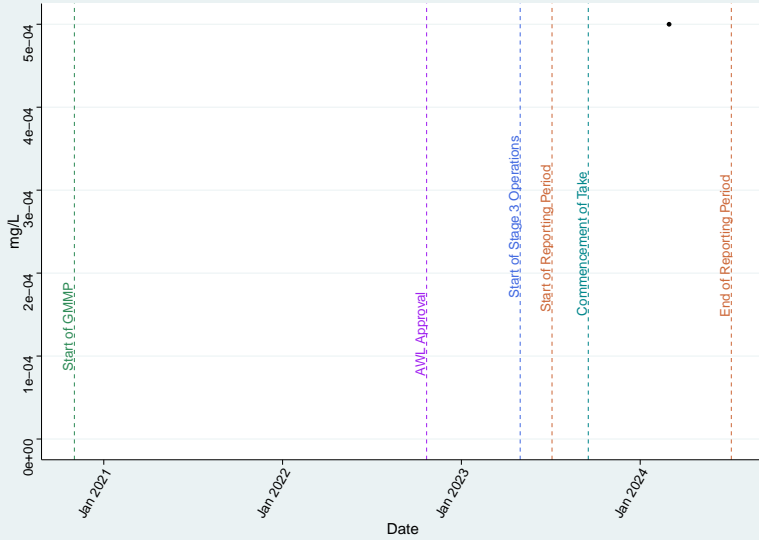
Bore 130WBR (Marburg Sandstone) – Cl

Mann Kendall Trend Test | τ = Not enough data | p -value = Not enough data | Not evaluated



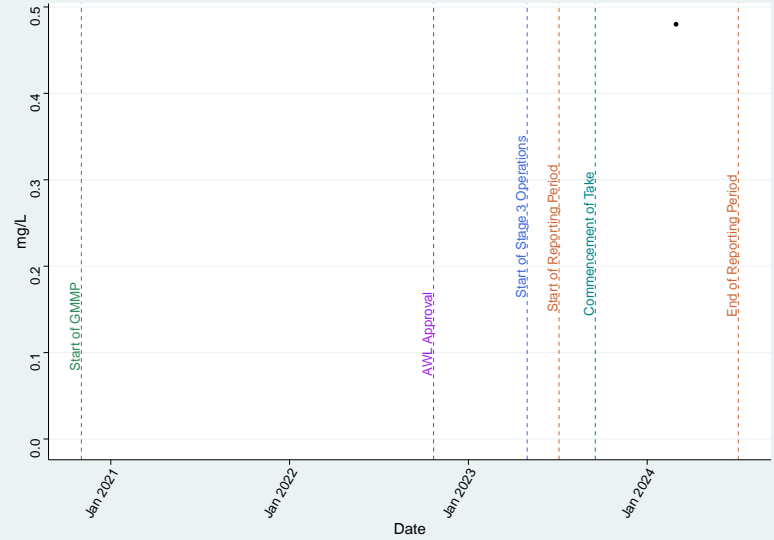
Bore 130WBR (Marburg Sandstone) – Cu_diss

Mann Kendall Trend Test | τ = Not enough data | p -value = Not enough data | Not evaluated



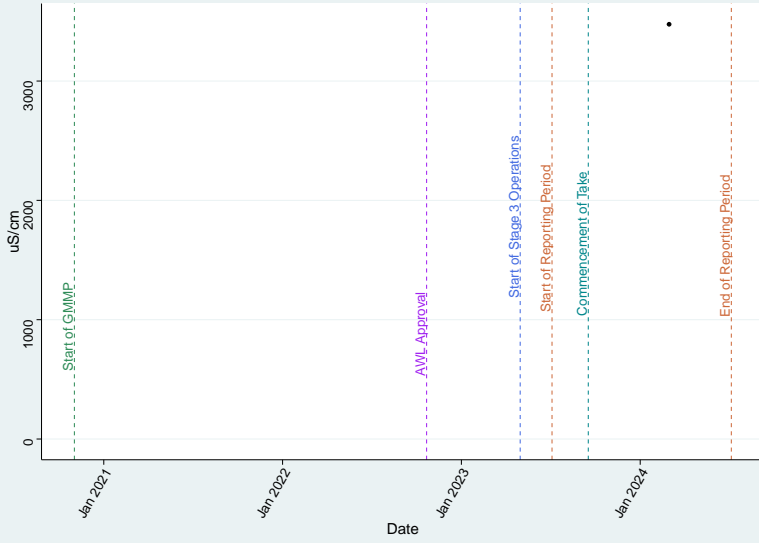
Bore 130WBR (Marburg Sandstone) – DO_Field

Mann Kendall Trend Test | τ = Not enough data | p -value = Not enough data | Not evaluated



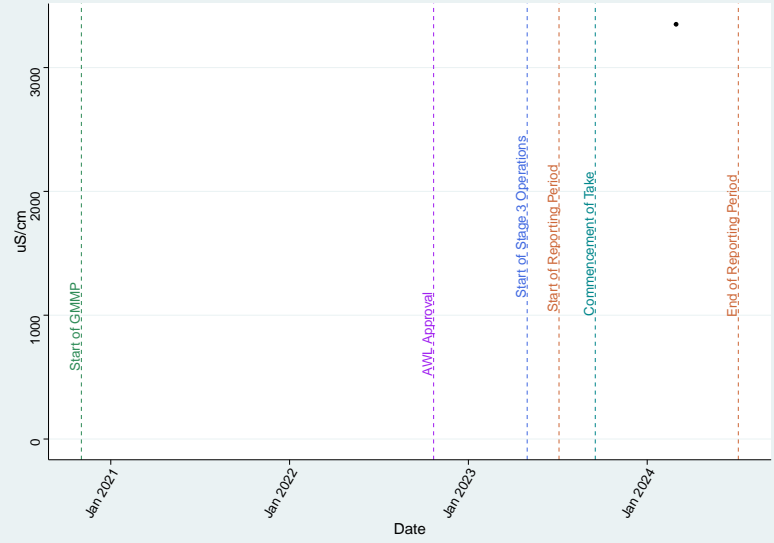
Bore 130WBR (Marburg Sandstone) – EC_Field

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



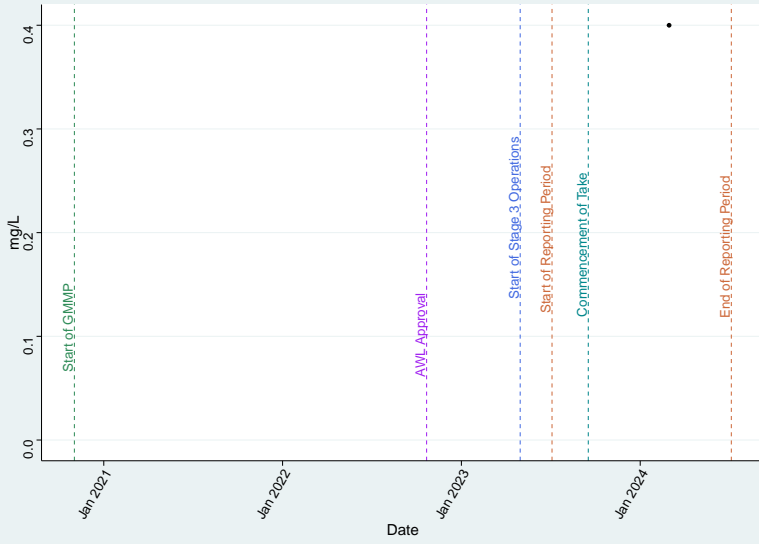
Bore 130WBR (Marburg Sandstone) – EC_Lab

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



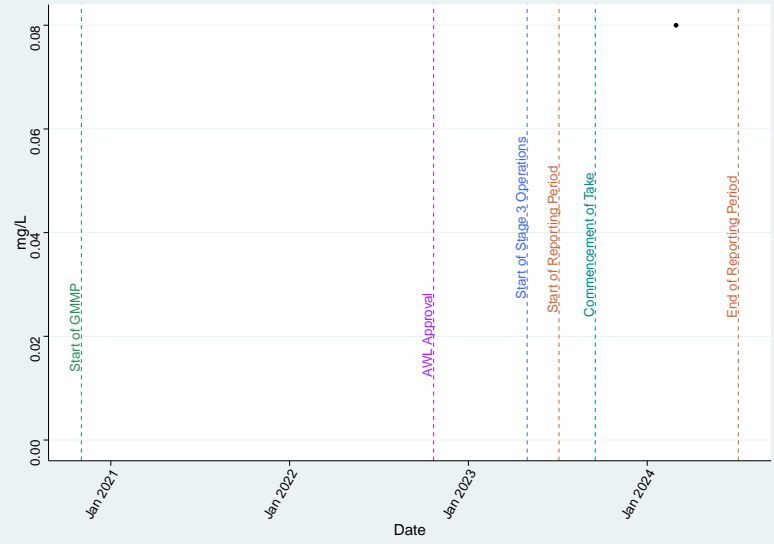
Bore 130WBR (Marburg Sandstone) – F

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



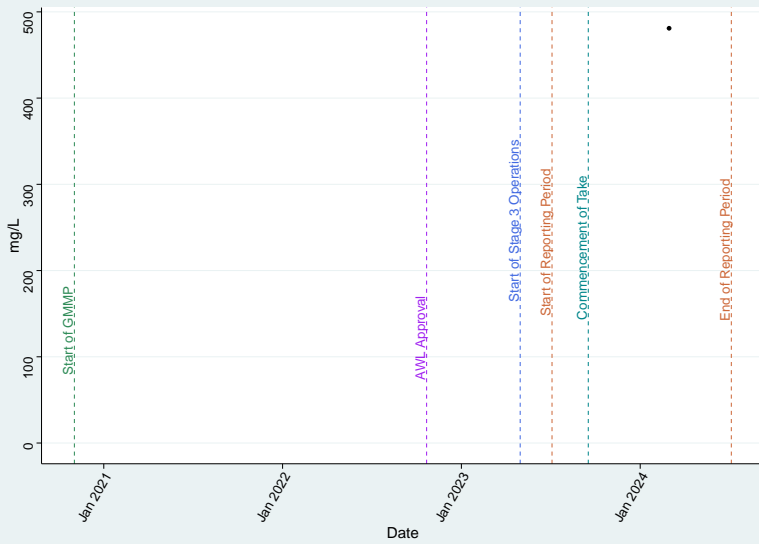
Bore 130WBR (Marburg Sandstone) – Fe_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



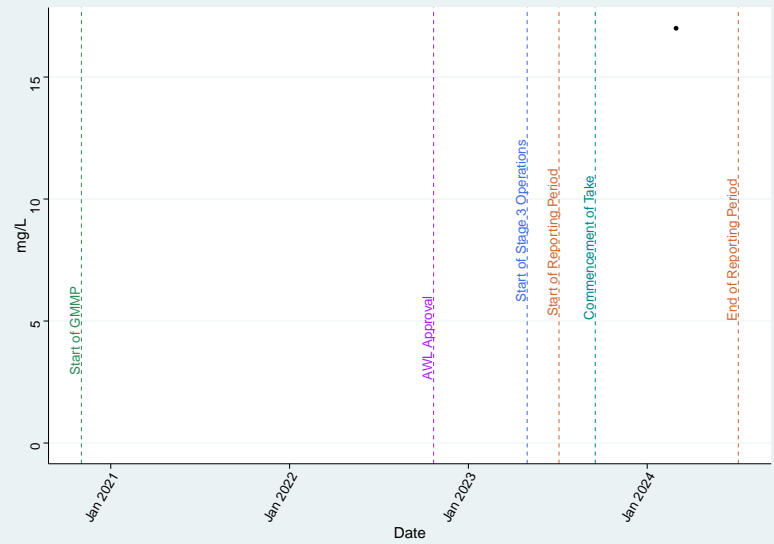
Bore 130WBR (Marburg Sandstone) – HCO3

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



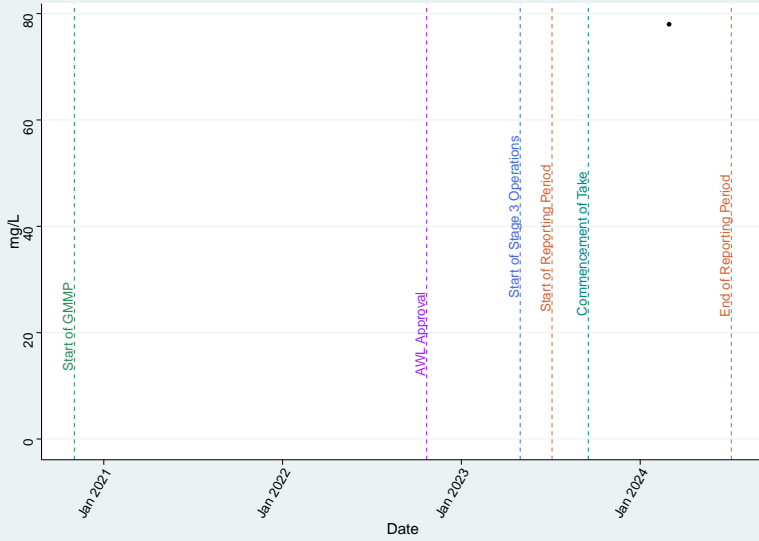
Bore 130WBR (Marburg Sandstone) – K

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



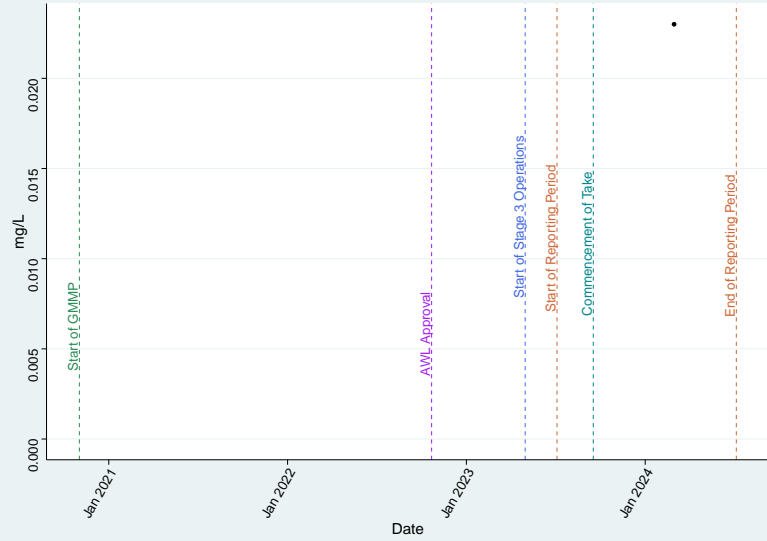
Bore 130WBR (Marburg Sandstone) – Mg

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



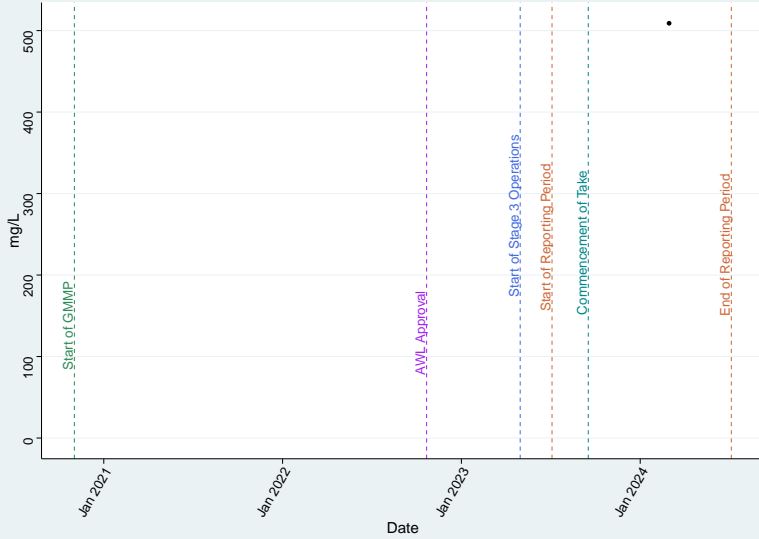
Bore 130WBR (Marburg Sandstone) – Mn_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



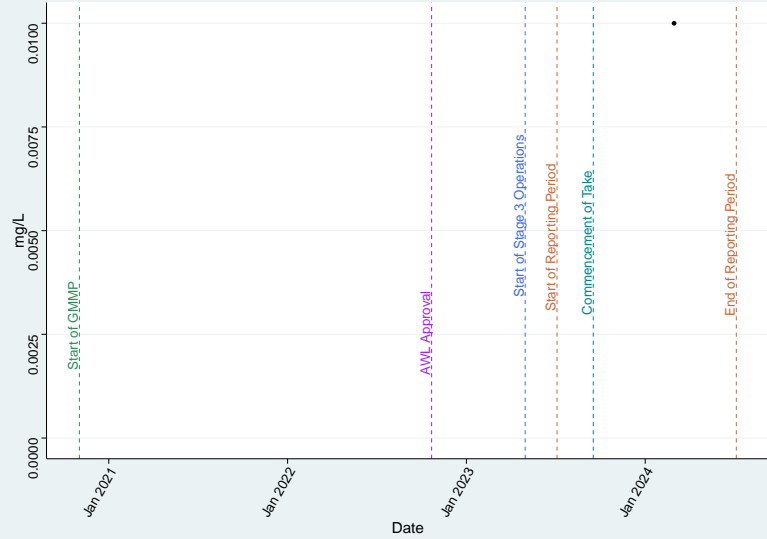
Bore 130WBR (Marburg Sandstone) – Na

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



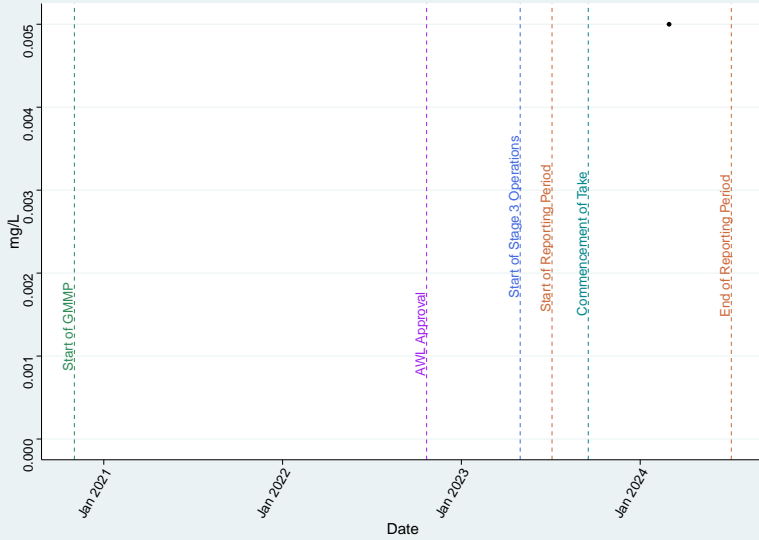
Bore 130WBR (Marburg Sandstone) – Nitrate as N

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



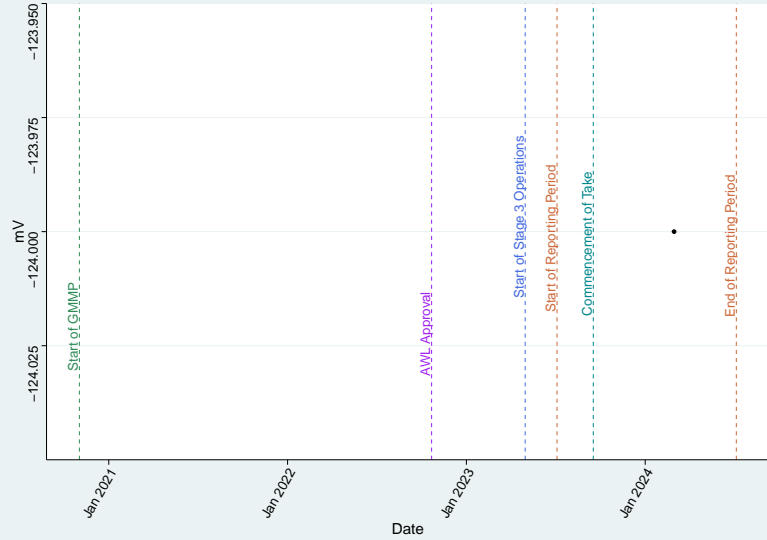
Bore 130WBR (Marburg Sandstone) – Nitrite as N

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



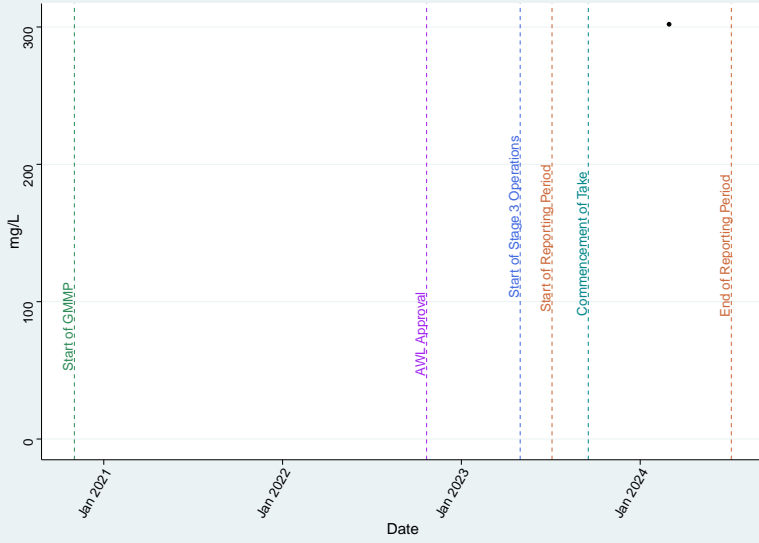
Bore 130WBR (Marburg Sandstone) – Redox_Field

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



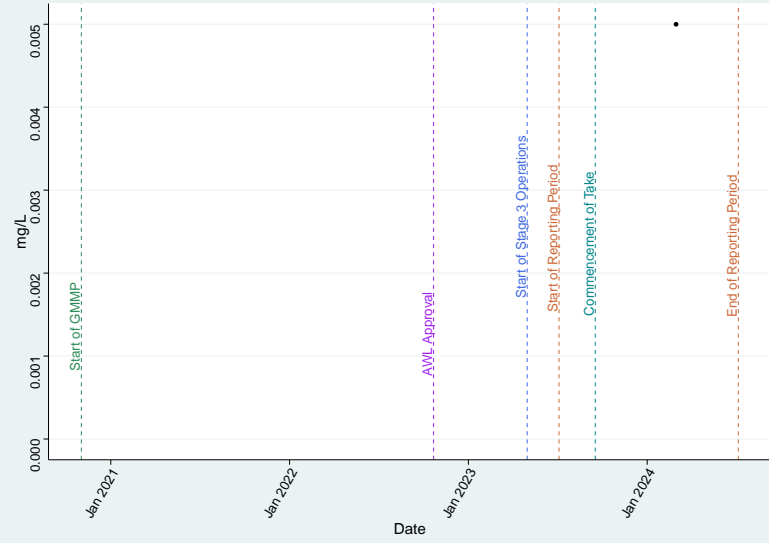
Bore 130WBR (Marburg Sandstone) – SO4

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



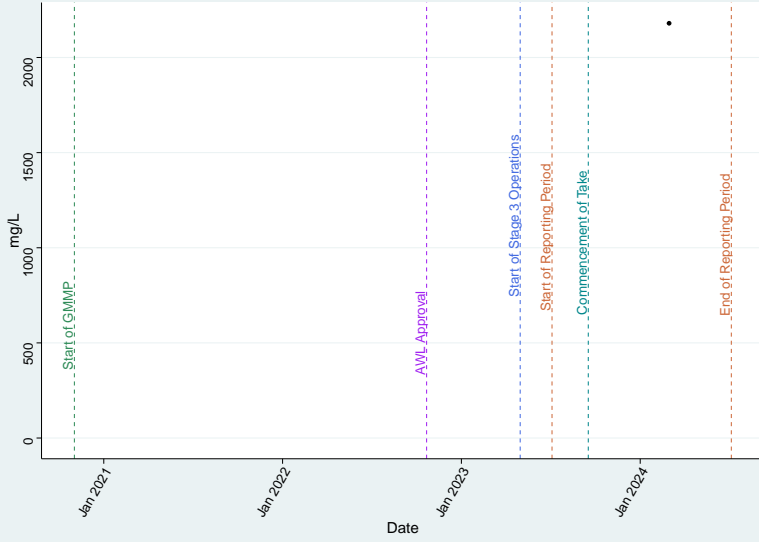
Bore 130WBR (Marburg Sandstone) – Se_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



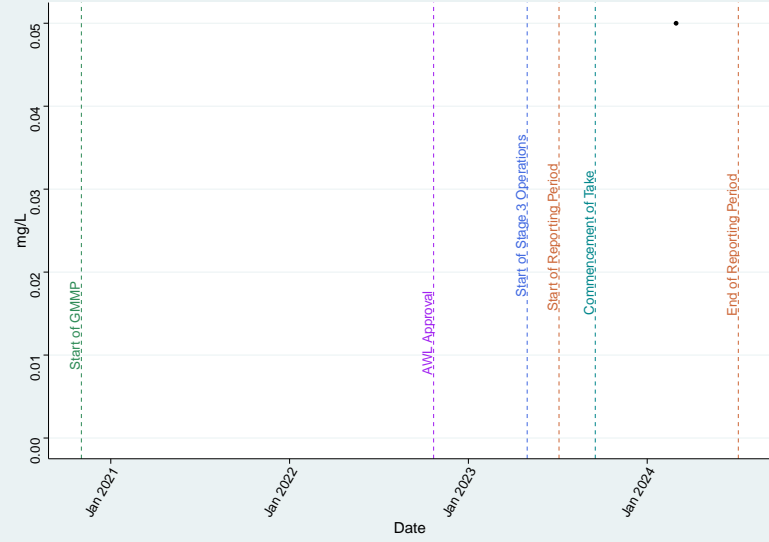
Bore 130WBR (Marburg Sandstone) – TDS

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



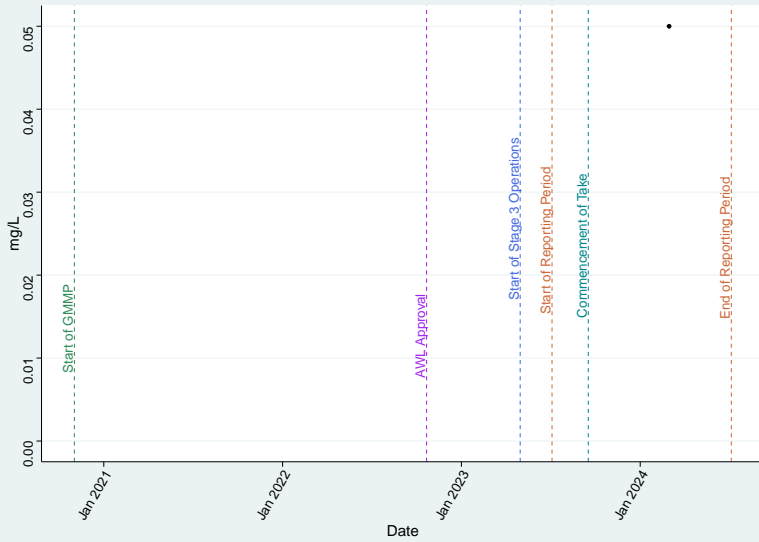
Bore 130WBR (Marburg Sandstone) – TKN

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



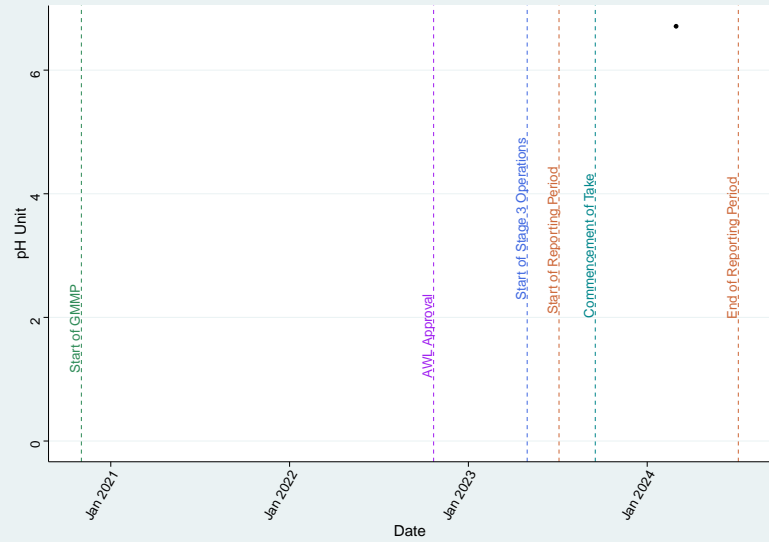
Bore 130WBR (Marburg Sandstone) – Total_N

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



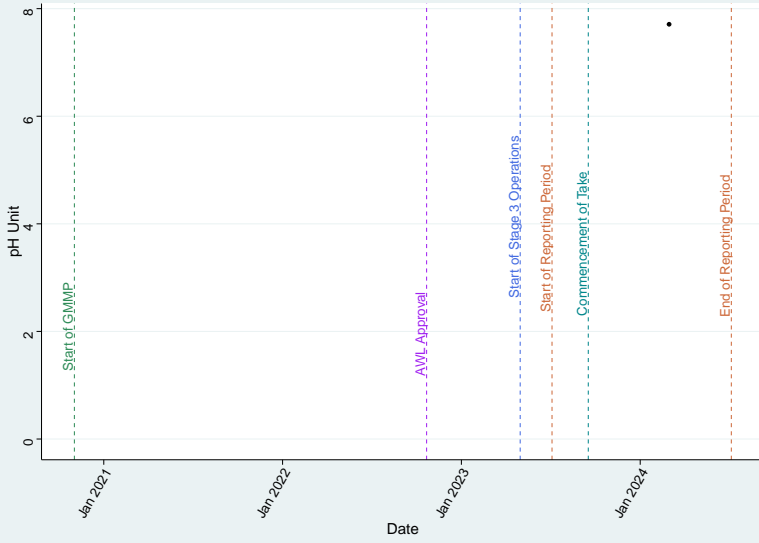
Bore 130WBR (Marburg Sandstone) – pH_Field

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



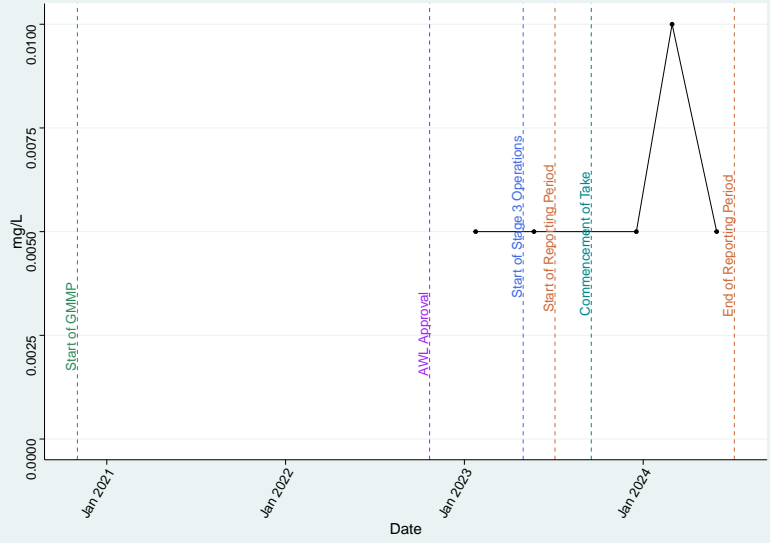
Bore 130WBR (Marburg Sandstone) – pH_Lab

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



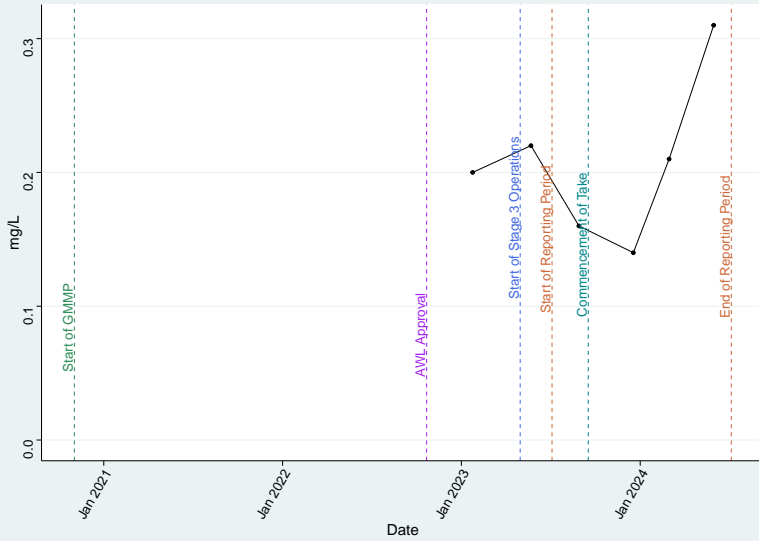
Bore 132WBR (Balgowan Coal Sequence) – Al_diss

Mann Kendall Trend Test | τ = 0.316 | p-value = 0.724 | No trend



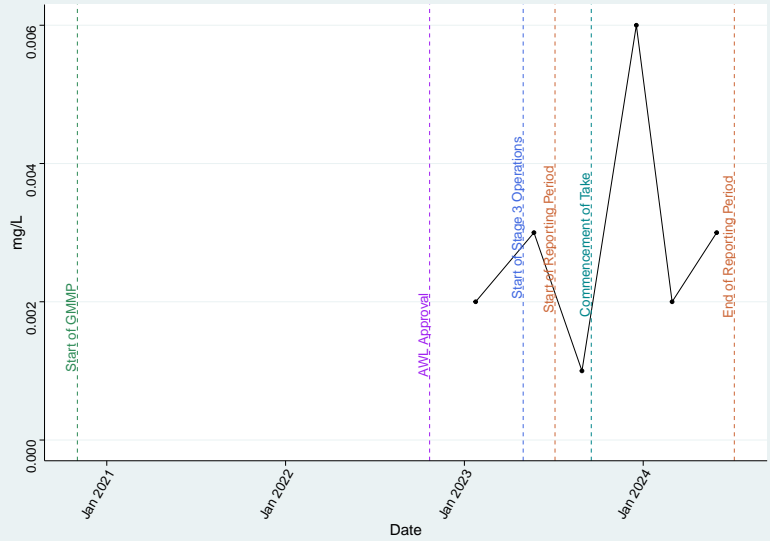
Bore 132WBR (Balgowan Coal Sequence) – Ammonia as N

Mann Kendall Trend Test | τ = 0.2 | p-value = 0.707 | No trend



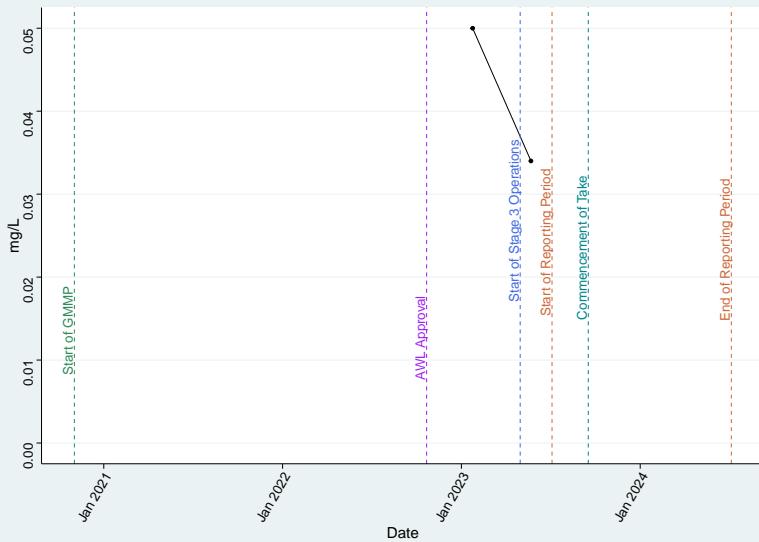
Bore 132WBR (Balgowan Coal Sequence) – As_diss

Mann Kendall Trend Test | τ = 0.215 | p-value = 0.697 | No trend



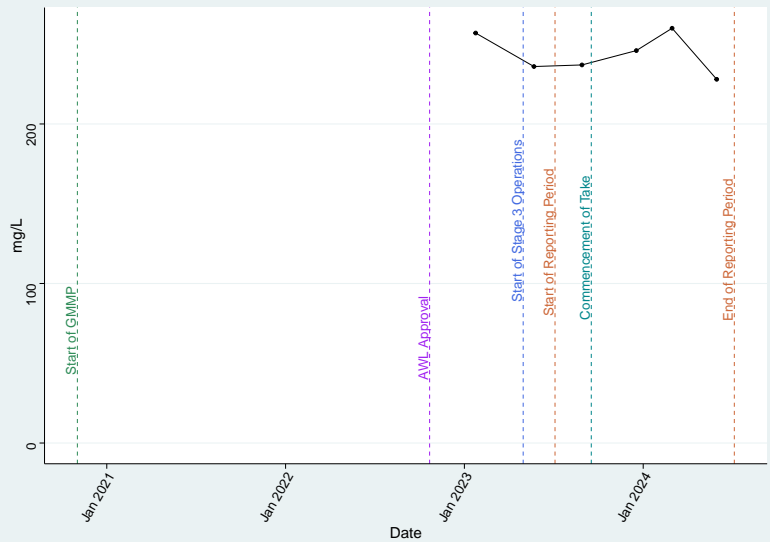
Bore 132WBR (Balgowan Coal Sequence) – Ba_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



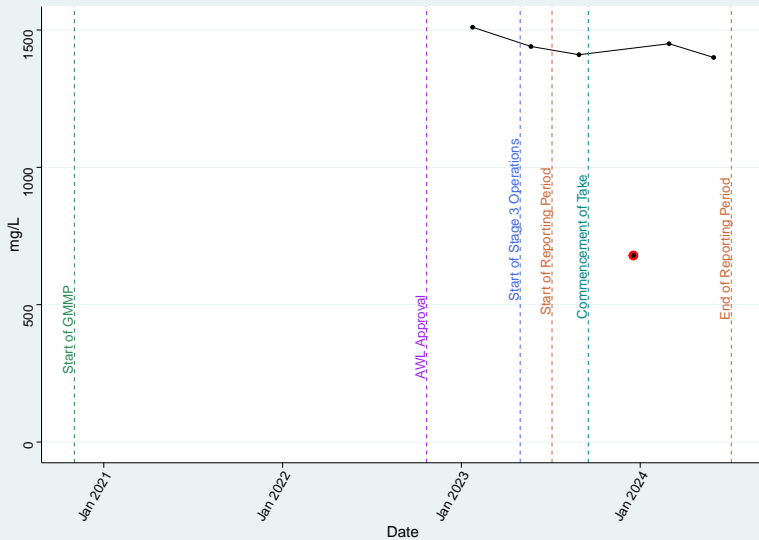
Bore 132WBR (Balgowan Coal Sequence) – Ca

Mann Kendall Trend Test | τ = -0.0667 | p-value = 1 | No trend



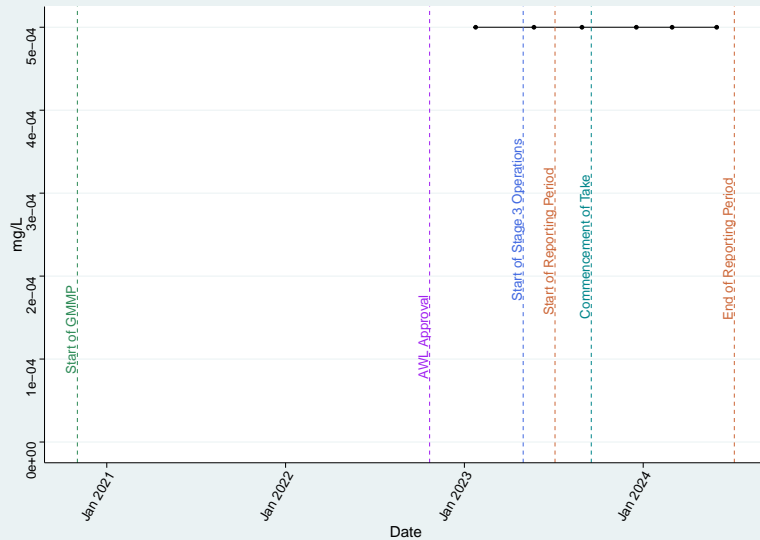
Bore 132WBR (Balgowan Coal Sequence) – Cl

Mann Kendall Trend Test | $\tau = -0.467$ | $p\text{-value} = 0.26$ | No trend



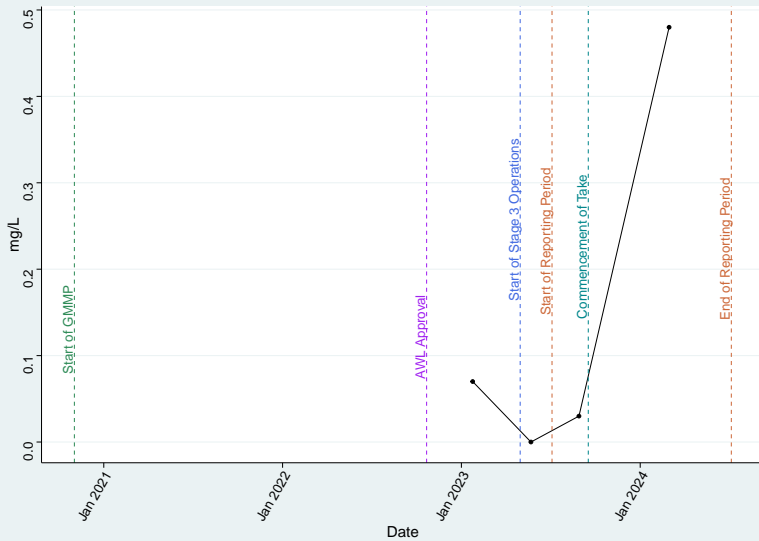
Bore 132WBR (Balgowan Coal Sequence) – Cu_diss

Mann Kendall Trend Test | $\tau = 1$ | $p\text{-value} = 1$ | No trend



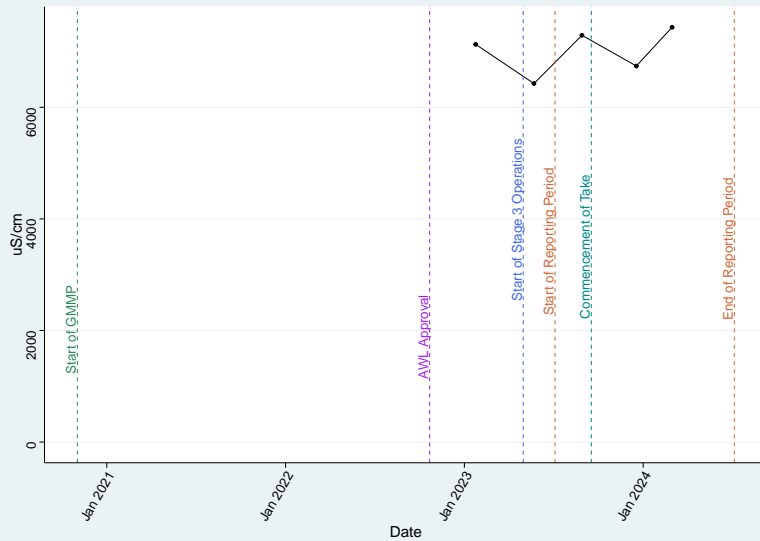
Bore 132WBR (Balgowan Coal Sequence) – DO_Field

Mann Kendall Trend Test | $\tau = 0.333$ | $p\text{-value} = 0.734$ | No trend



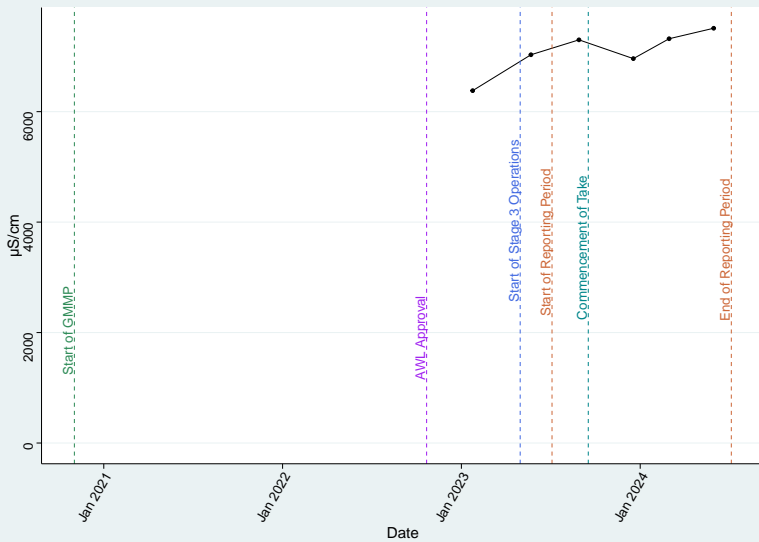
Bore 132WBR (Balgowan Coal Sequence) – EC_Field

Mann Kendall Trend Test | $\tau = 0.4$ | $p\text{-value} = 0.462$ | No trend



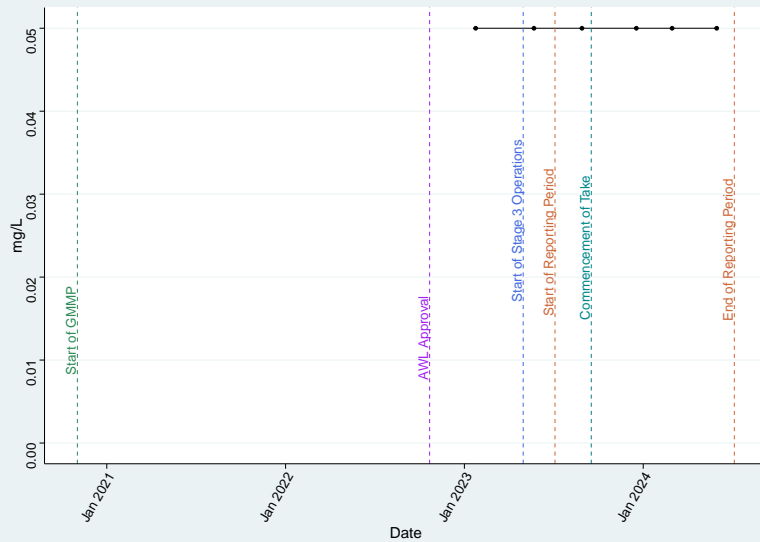
Bore 132WBR (Balgowan Coal Sequence) – EC_Lab

Mann Kendall Trend Test | $\tau = 0.733$ | $p\text{-value} = 0.0603$ | No trend



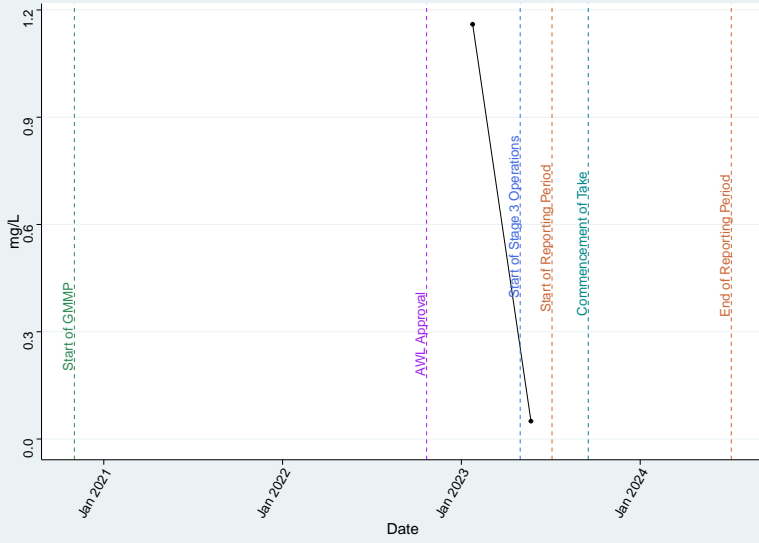
Bore 132WBR (Balgowan Coal Sequence) – F

Mann Kendall Trend Test | $\tau = 1$ | $p\text{-value} = 1$ | No trend



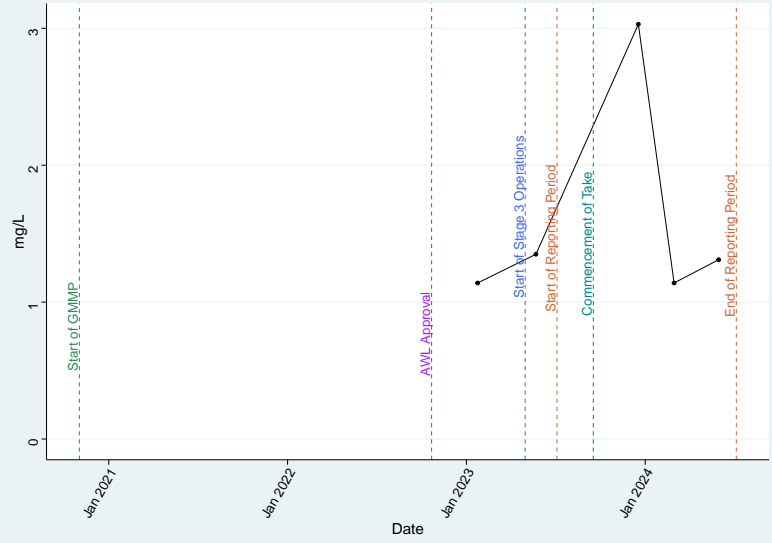
Bore 132WBR (Balgowan Coal Sequence) – Fe2

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



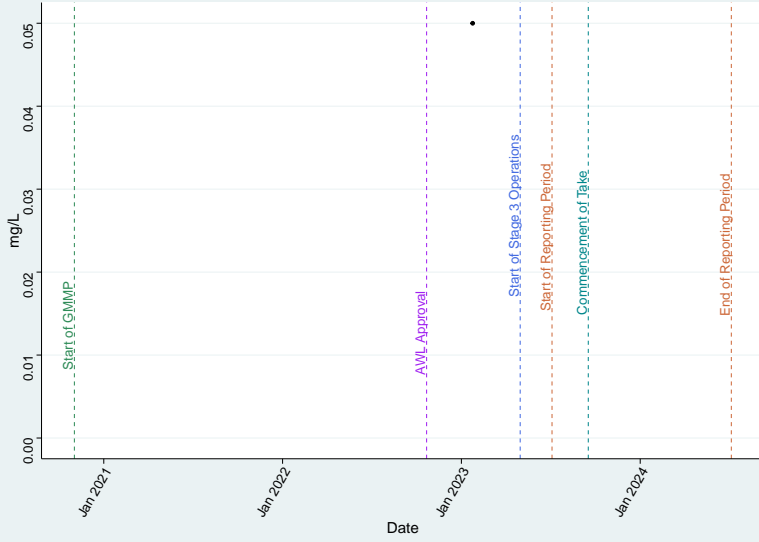
Bore 132WBR (Balgowan Coal Sequence) – Fe_diss

Mann Kendall Trend Test | τ = 0.105 | p-value = 1 | No trend



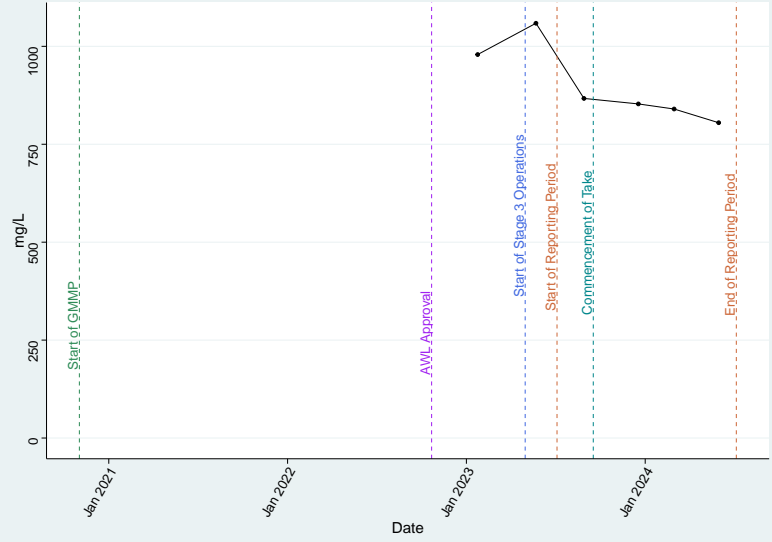
Bore 132WBR (Balgowan Coal Sequence) – H2S

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



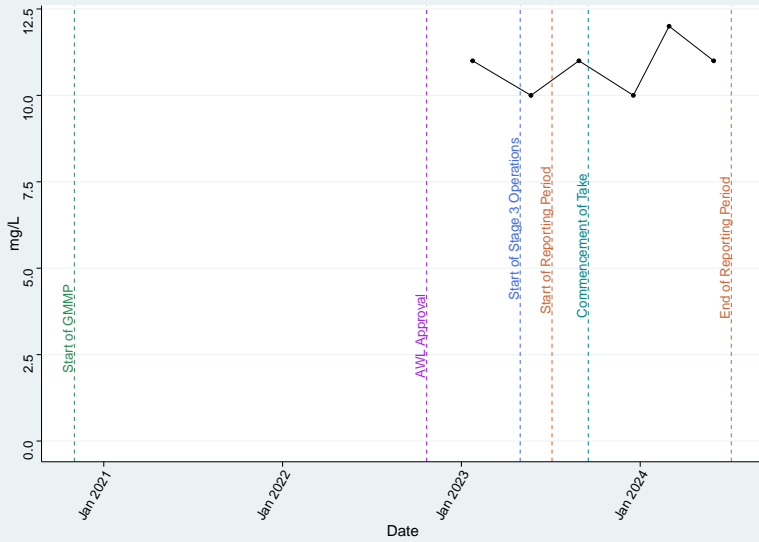
Bore 132WBR (Balgowan Coal Sequence) – HCO3

Mann Kendall Trend Test | τ = -0.867 | p-value = 0.0242 | Negative trend



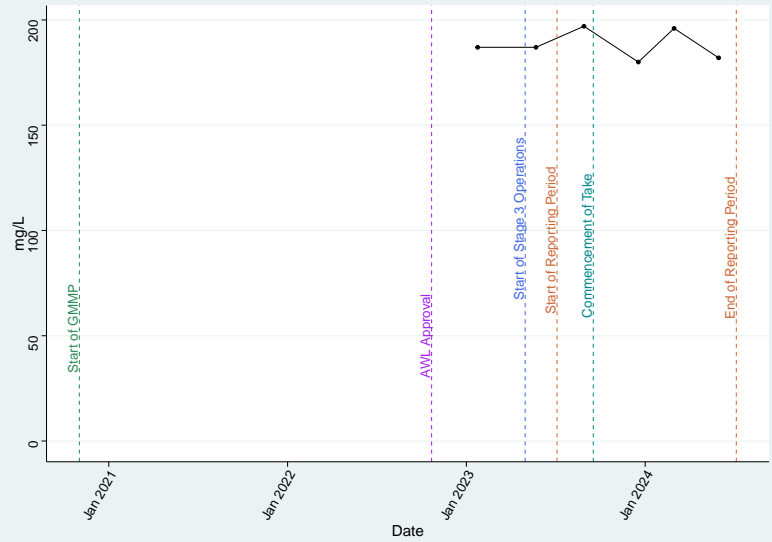
Bore 132WBR (Balgowan Coal Sequence) – K

Mann Kendall Trend Test | τ = 0.234 | p-value = 0.681 | No trend

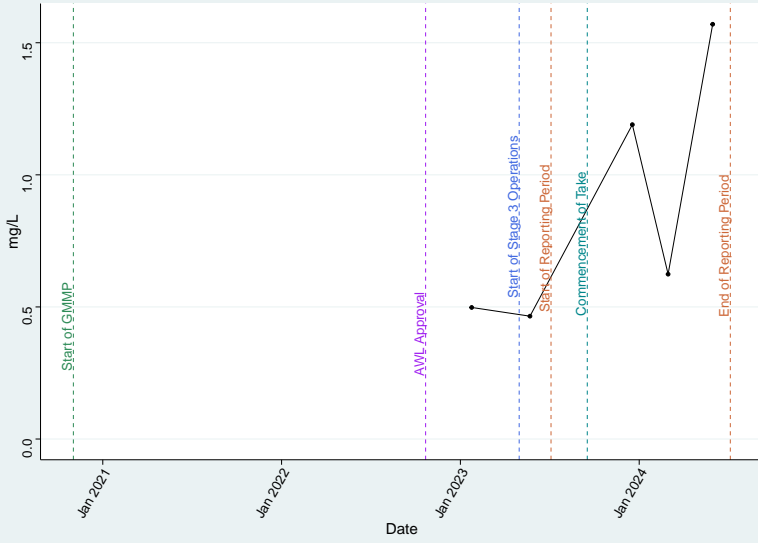


Bore 132WBR (Balgowan Coal Sequence) – Mg

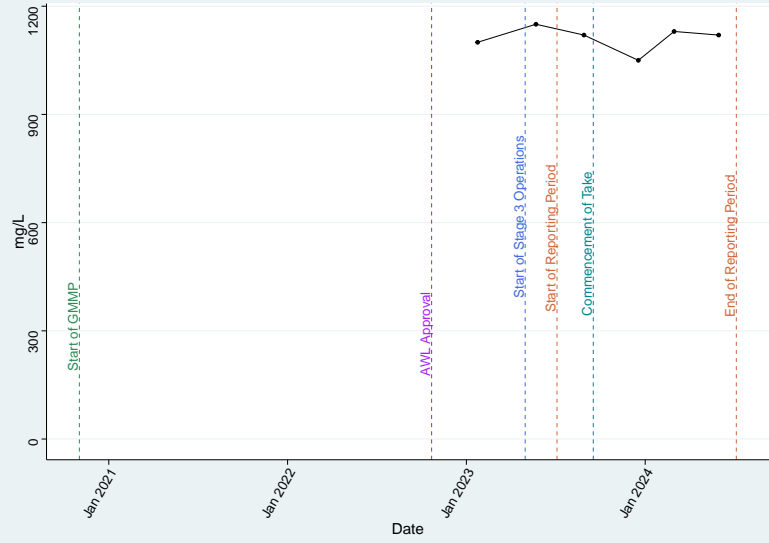
Mann Kendall Trend Test | τ = -0.138 | p-value = 0.848 | No trend



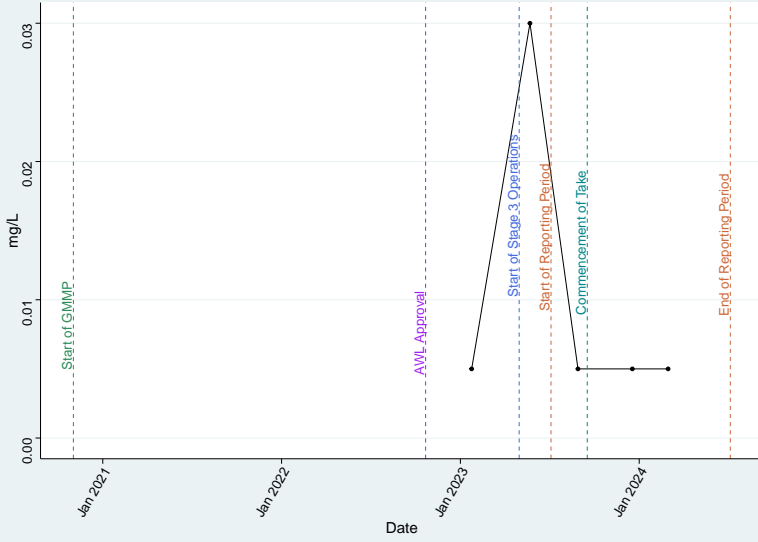
Bore 132WBR (Balgowan Coal Sequence) – Mn_{diss}
 Mann Kendall Trend Test | $\tau = 0.6$ | $p\text{-value} = 0.221$ | No trend



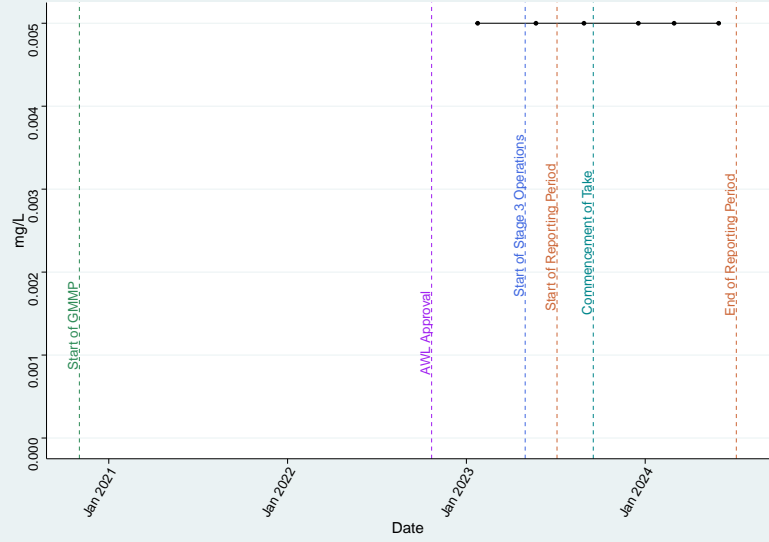
Bore 132WBR (Balgowan Coal Sequence) – Na
 Mann Kendall Trend Test | $\tau = 0$ | $p\text{-value} = 1$ | No trend



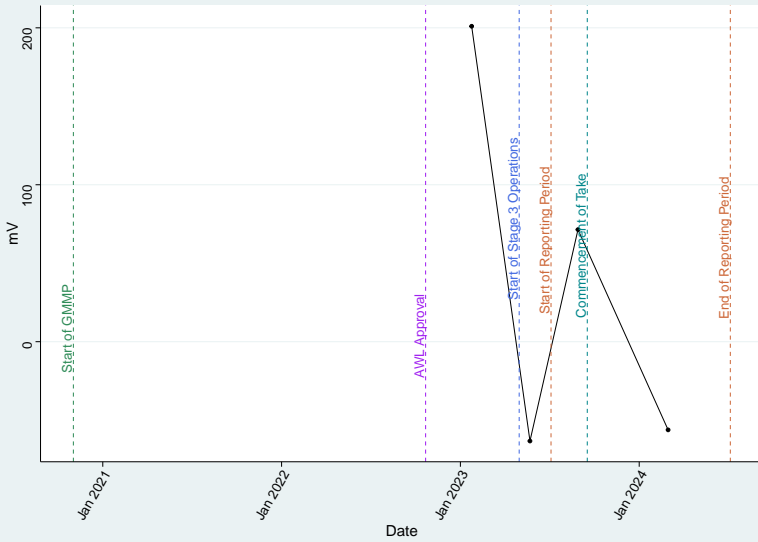
Bore 132WBR (Balgowan Coal Sequence) – Nitrate as N
 Mann Kendall Trend Test | $\tau = -0.316$ | $p\text{-value} = 0.724$ | No trend



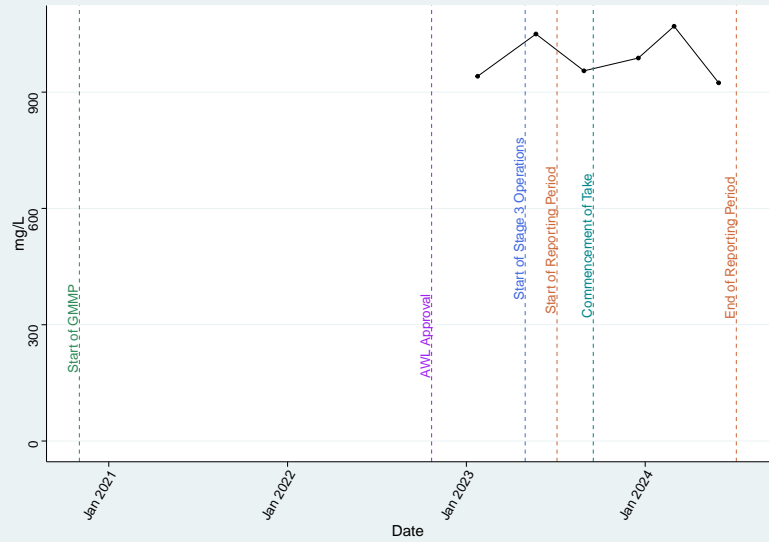
Bore 132WBR (Balgowan Coal Sequence) – Nitrite as N
 Mann Kendall Trend Test | $\tau = 1$ | $p\text{-value} = 1$ | No trend



Bore 132WBR (Balgowan Coal Sequence) – Redox_Field
 Mann Kendall Trend Test | $\tau = -0.333$ | $p\text{-value} = 0.734$ | No trend

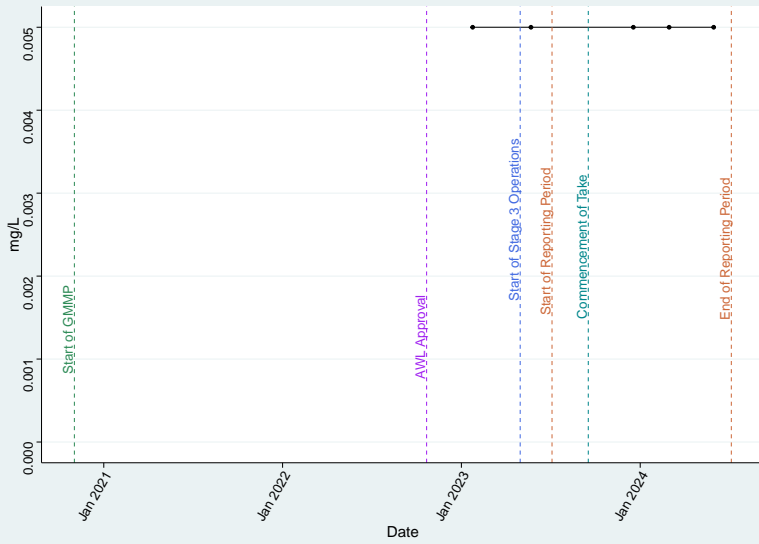


Bore 132WBR (Balgowan Coal Sequence) – SO₄
 Mann Kendall Trend Test | $\tau = 0.0667$ | $p\text{-value} = 1$ | No trend



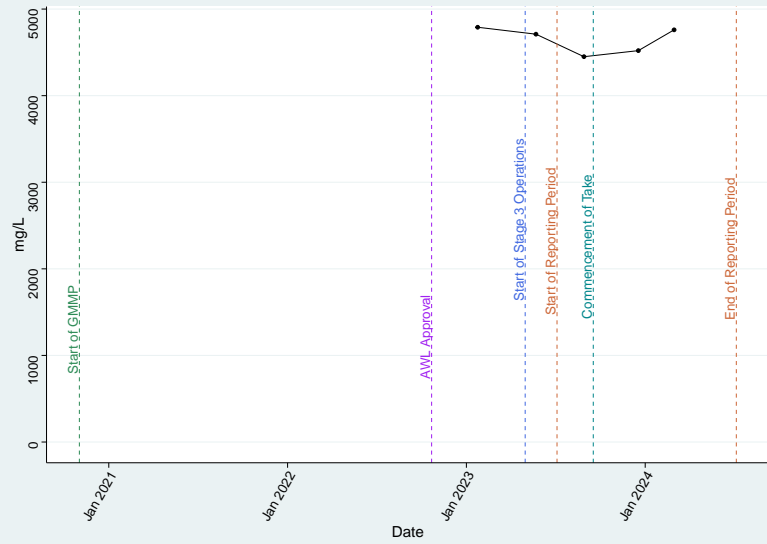
Bore 132WBR (Balgowan Coal Sequence) – Se_diss

Mann Kendall Trend Test | $\tau = 1$ | p-value = 1 | No trend



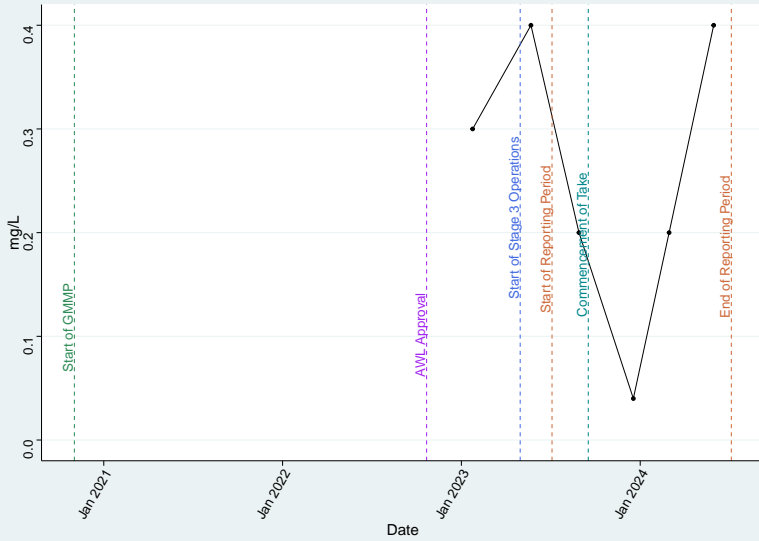
Bore 132WBR (Balgowan Coal Sequence) – TDS

Mann Kendall Trend Test | $\tau = -0.2$ | p-value = 0.806 | No trend



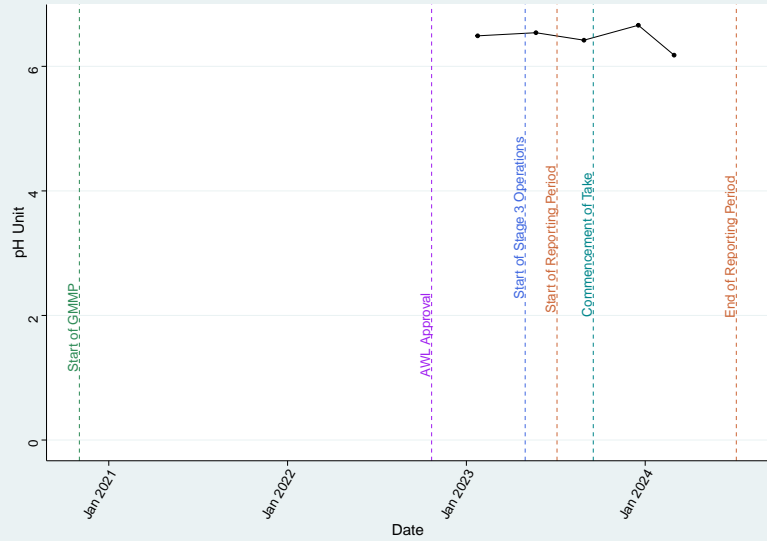
Bore 132WBR (Balgowan Coal Sequence) – TKN

Mann Kendall Trend Test | $\tau = -0.0716$ | p-value = 1 | No trend



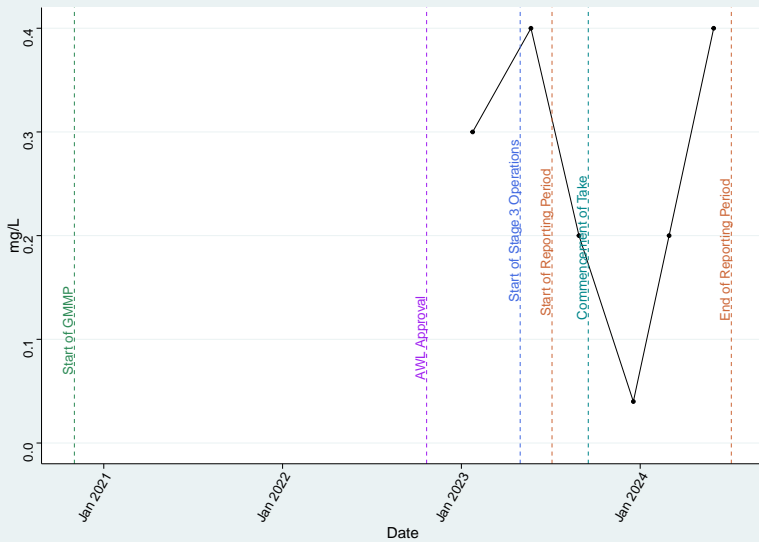
Bore 132WBR (Balgowan Coal Sequence) – pH_Field

Mann Kendall Trend Test | $\tau = -0.2$ | p-value = 0.806 | No trend



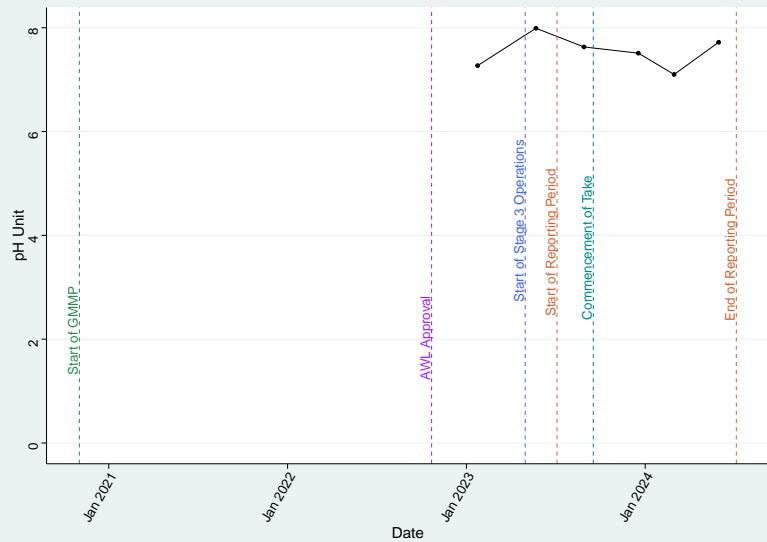
Bore 132WBR (Balgowan Coal Sequence) – Total_N

Mann Kendall Trend Test | $\tau = -0.0716$ | p-value = 1 | No trend

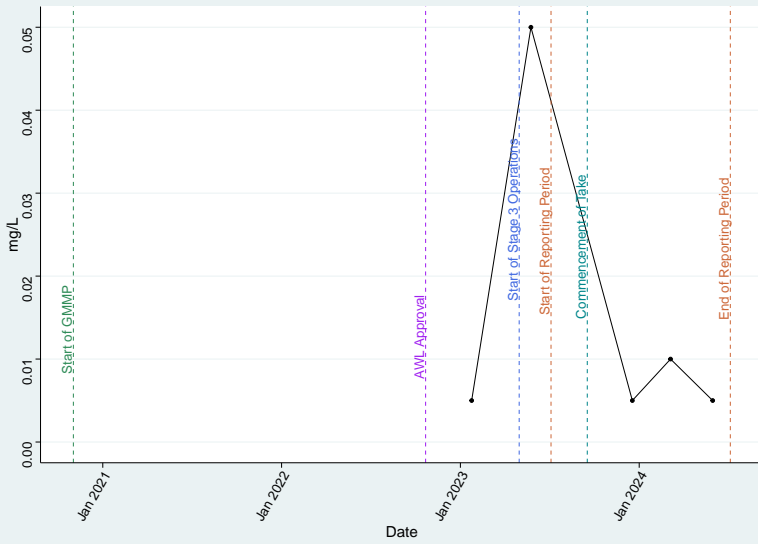


Bore 132WBR (Balgowan Coal Sequence) – pH_Lab

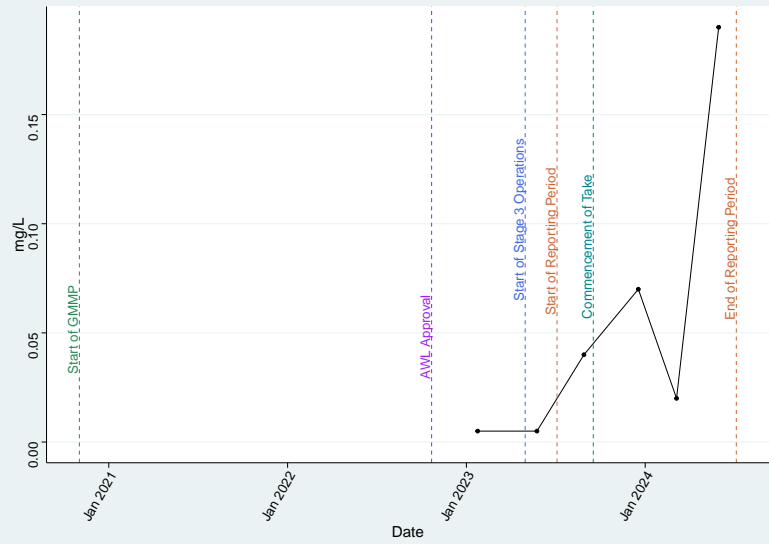
Mann Kendall Trend Test | $\tau = -0.0667$ | p-value = 1 | No trend



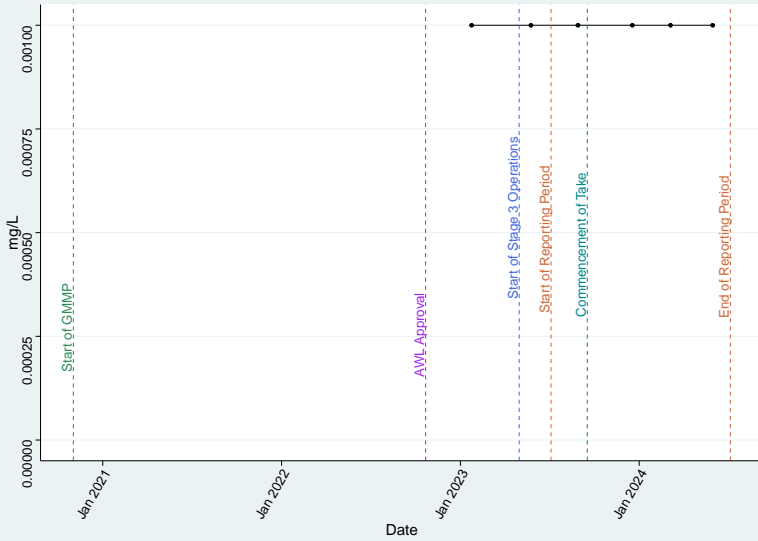
Bore 133WBR (Balgowan Coal Sequence) – Al_{diss}
 Mann Kendall Trend Test | $\tau = -0.12$ | $p\text{-value} = 1$ | No trend



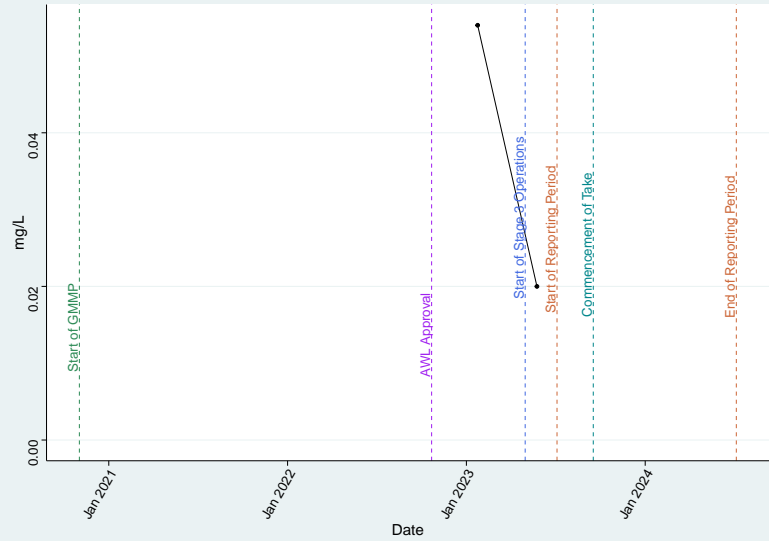
Bore 133WBR (Balgowan Coal Sequence) – Ammonia as N
 Mann Kendall Trend Test | $\tau = 0.69$ | $p\text{-value} = 0.0852$ | No trend



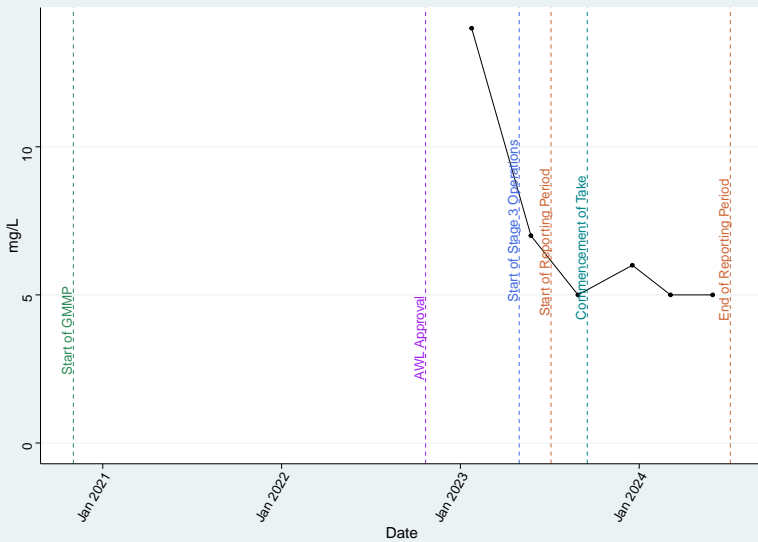
Bore 133WBR (Balgowan Coal Sequence) – As_{diss}
 Mann Kendall Trend Test | $\tau = 1$ | $p\text{-value} = 1$ | No trend



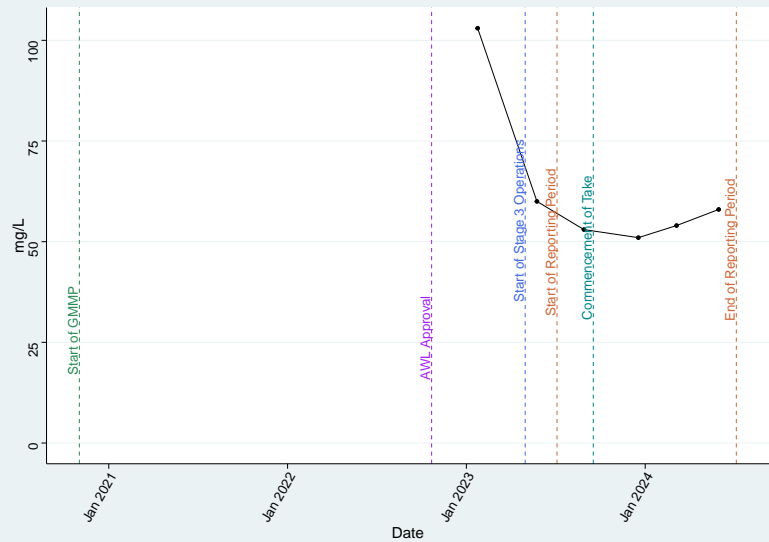
Bore 133WBR (Balgowan Coal Sequence) – Ba_{diss}
 Mann Kendall Trend Test | $\tau =$ Not enough data | $p\text{-value} =$ Not enough data | Not evaluated



Bore 133WBR (Balgowan Coal Sequence) – Ca
 Mann Kendall Trend Test | $\tau = -0.745$ | $p\text{-value} = 0.07$ | No trend

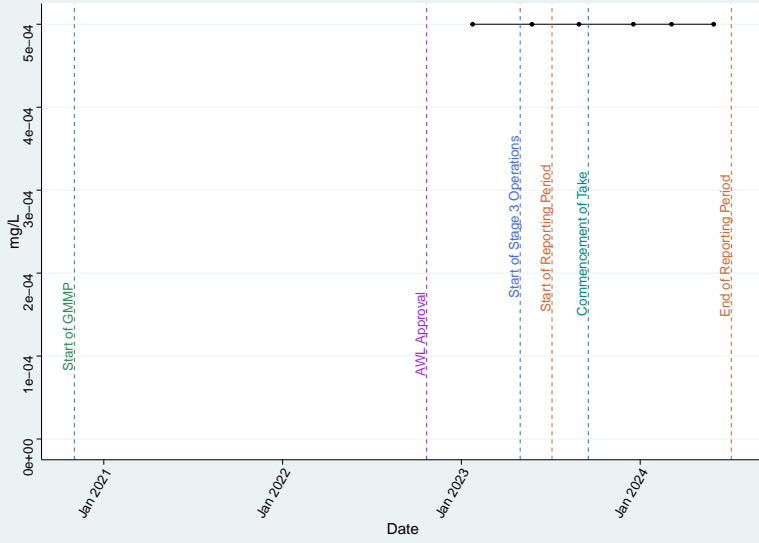


Bore 133WBR (Balgowan Coal Sequence) – Cl
 Mann Kendall Trend Test | $\tau = -0.333$ | $p\text{-value} = 0.452$ | No trend



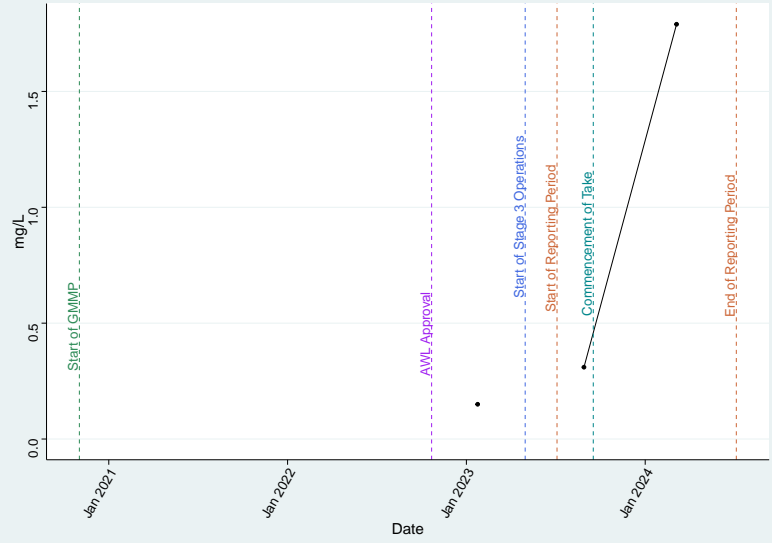
Bore 133WBR (Balgowan Coal Sequence) – Cu_{diss}

Mann Kendall Trend Test | $\tau = 1$ | p -value = 1 | No trend



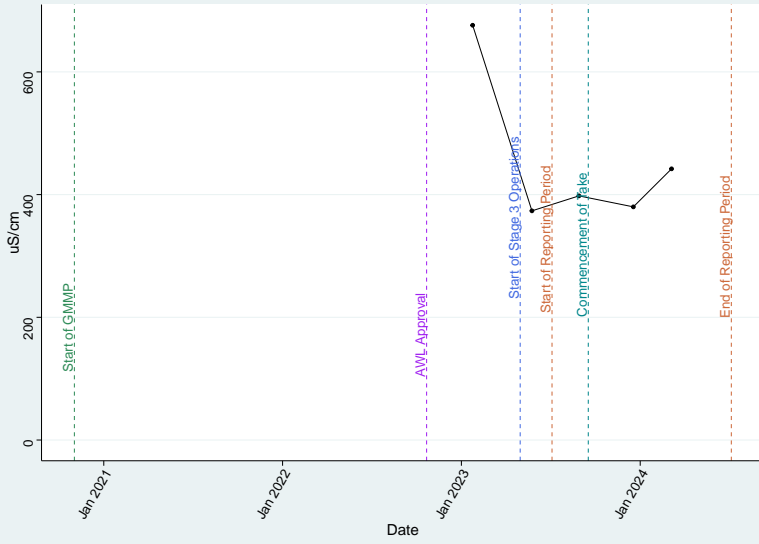
Bore 133WBR (Balgowan Coal Sequence) – DO_{Field}

Mann Kendall Trend Test | $\tau = 0.667$ | p -value = 0.308 | No trend



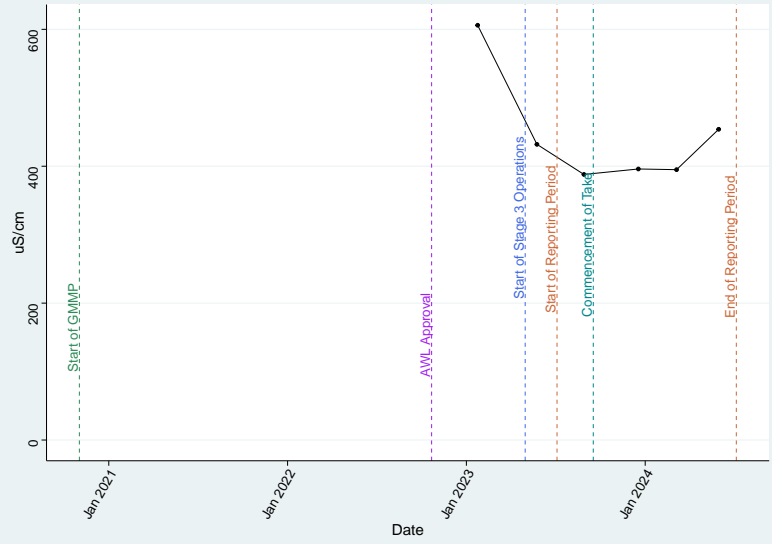
Bore 133WBR (Balgowan Coal Sequence) – EC_{Field}

Mann Kendall Trend Test | $\tau = 0$ | p -value = 1 | No trend



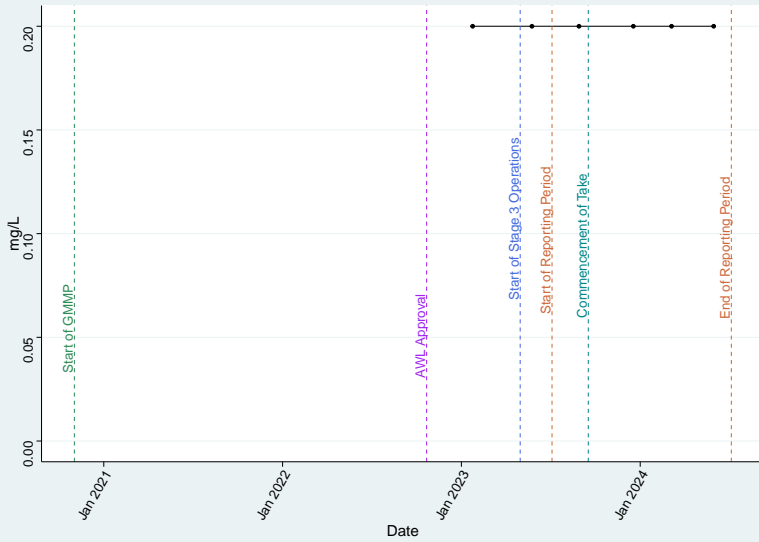
Bore 133WBR (Balgowan Coal Sequence) – EC_{Lab}

Mann Kendall Trend Test | $\tau = -0.2$ | p -value = 0.707 | No trend



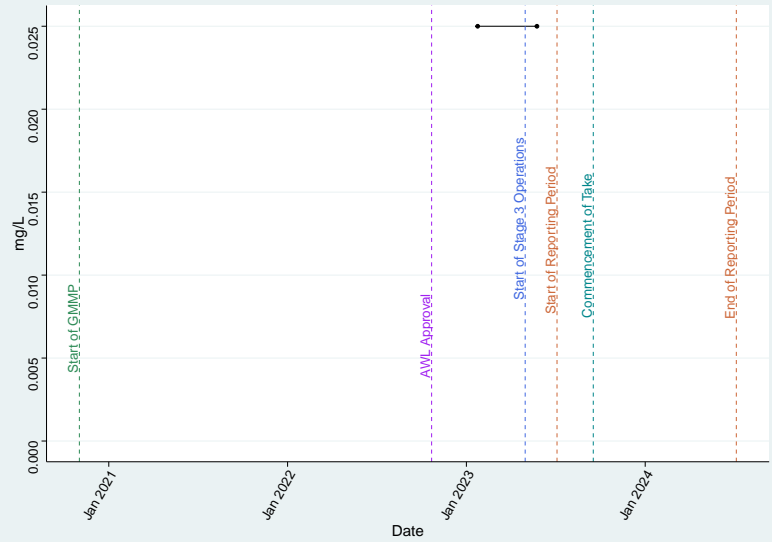
Bore 133WBR (Balgowan Coal Sequence) – F

Mann Kendall Trend Test | $\tau = 1$ | p -value = 1 | No trend

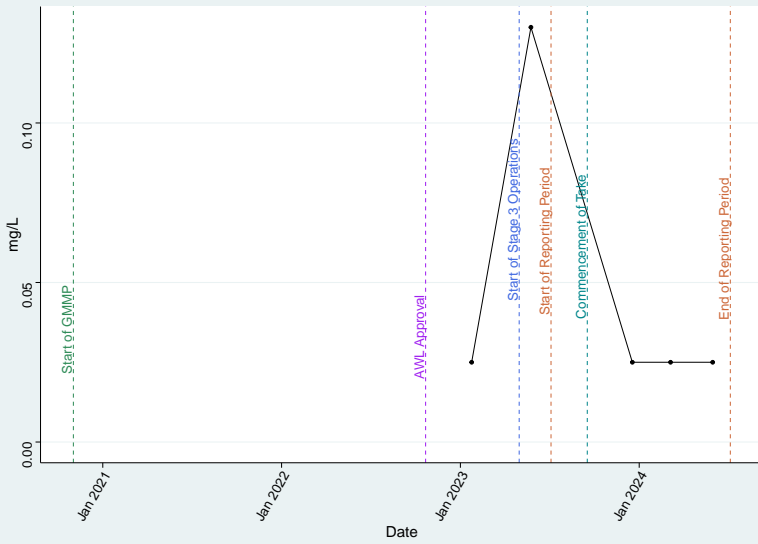


Bore 133WBR (Balgowan Coal Sequence) – Fe₂

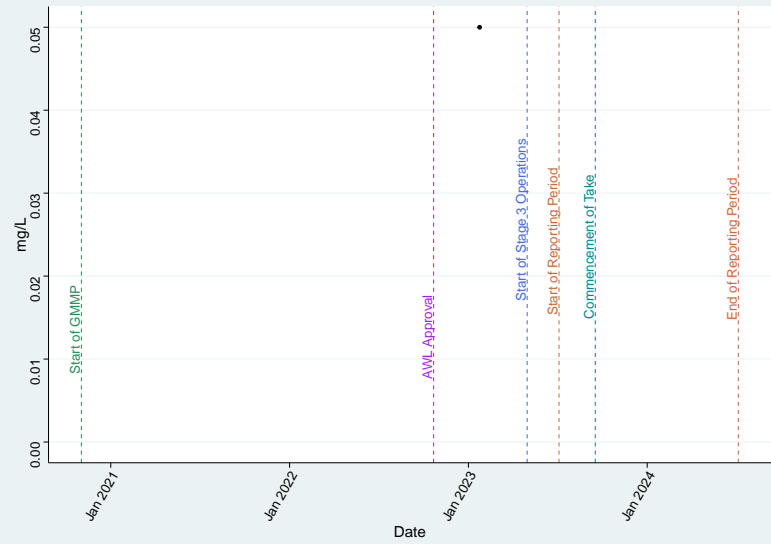
Mann Kendall Trend Test | $\tau =$ Not enough data | p -value = Not enough data | Not evaluated



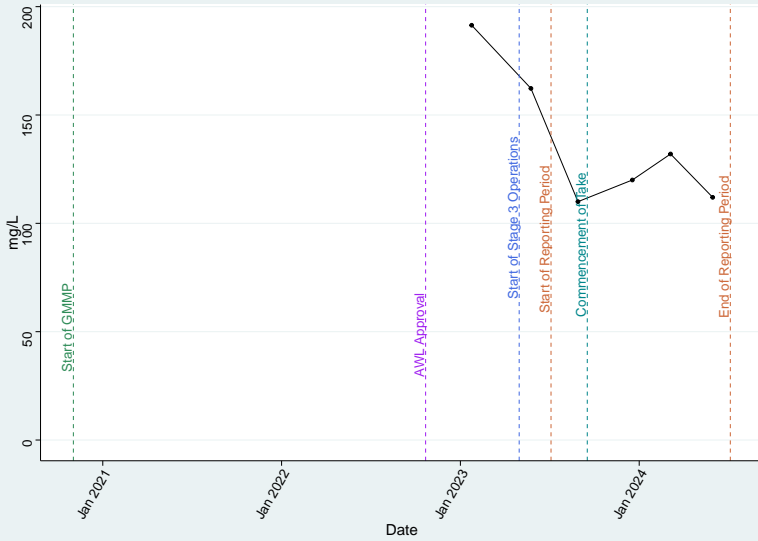
Bore 133WBR (Balgowan Coal Sequence) – Fe_{diss}
 Mann Kendall Trend Test | $\tau = -0.316$ | $p\text{-value} = 0.724$ | No trend



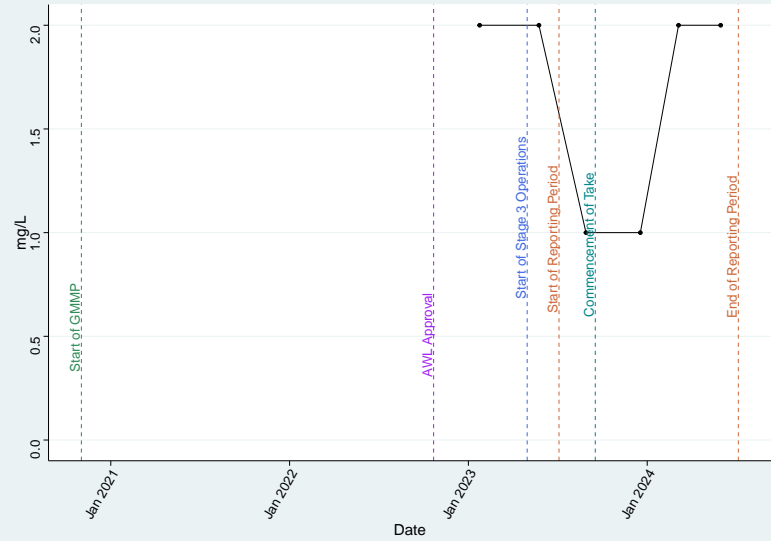
Bore 133WBR (Balgowan Coal Sequence) – H2S
 Mann Kendall Trend Test | $\tau =$ Not enough data | $p\text{-value} =$ Not enough data | Not evaluated



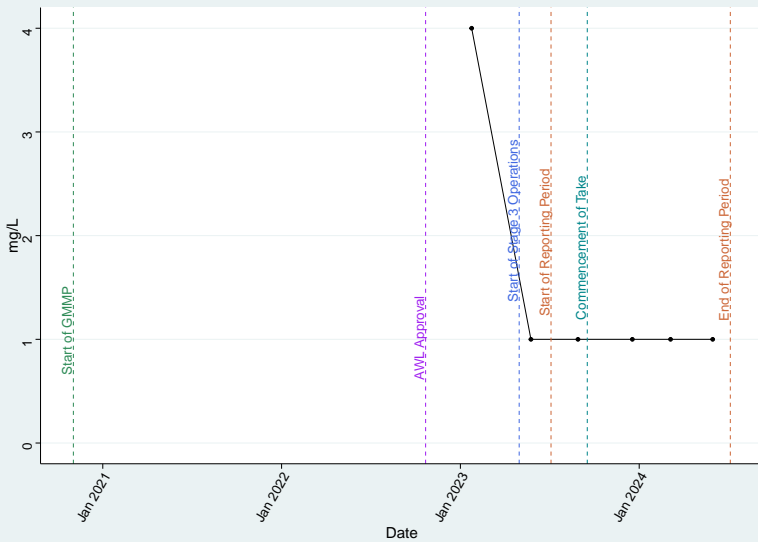
Bore 133WBR (Balgowan Coal Sequence) – HCO3
 Mann Kendall Trend Test | $\tau = -0.467$ | $p\text{-value} = 0.26$ | No trend



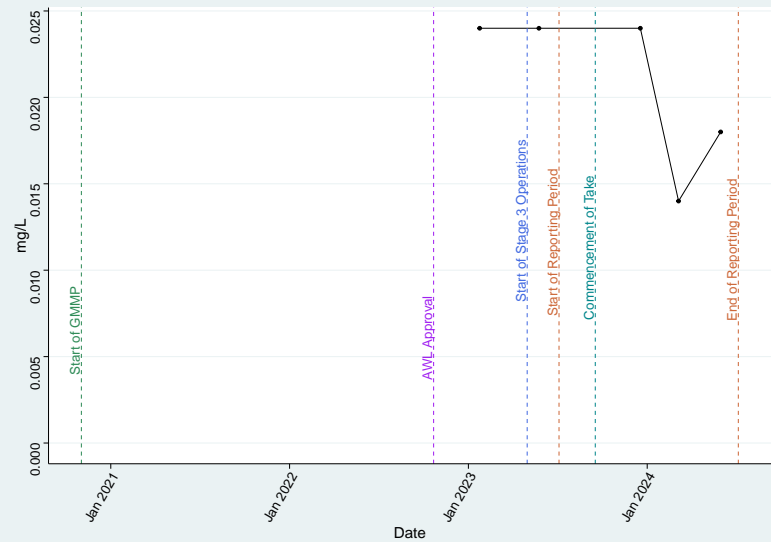
Bore 133WBR (Balgowan Coal Sequence) – K
 Mann Kendall Trend Test | $\tau = 0$ | $p\text{-value} = 1$ | No trend



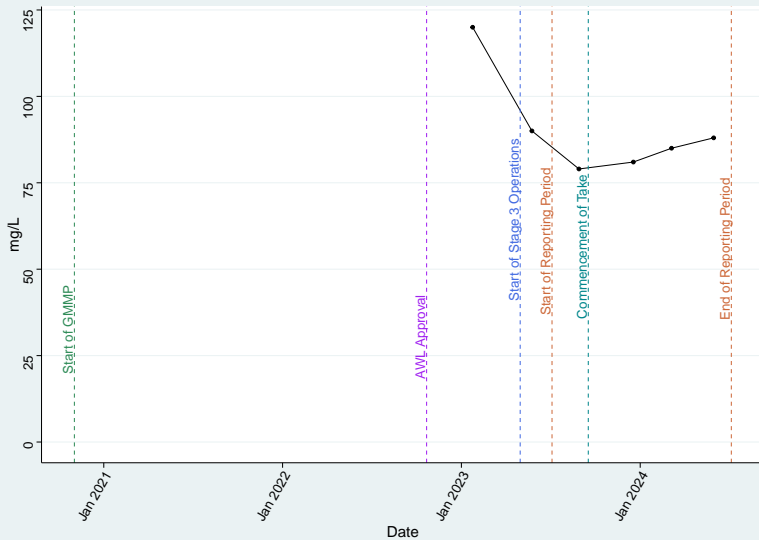
Bore 133WBR (Balgowan Coal Sequence) – Mg
 Mann Kendall Trend Test | $\tau = -0.577$ | $p\text{-value} = 0.242$ | No trend



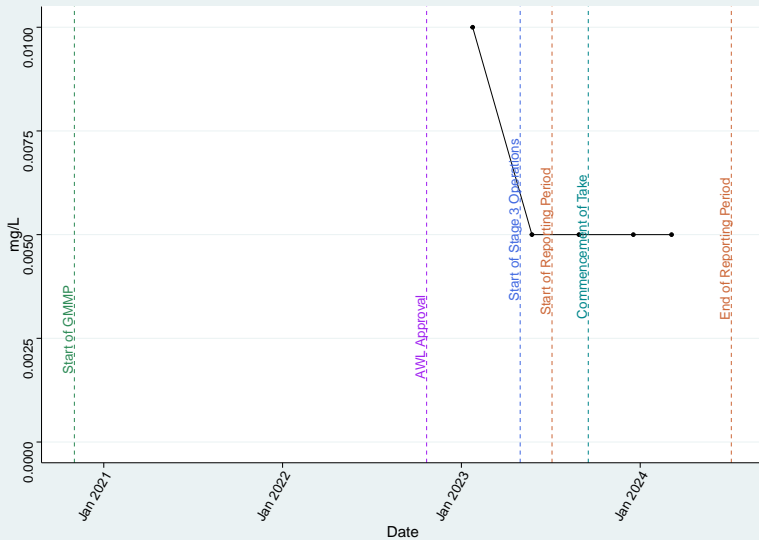
Bore 133WBR (Balgowan Coal Sequence) – Mn_{diss}
 Mann Kendall Trend Test | $\tau = -0.598$ | $p\text{-value} = 0.267$ | No trend



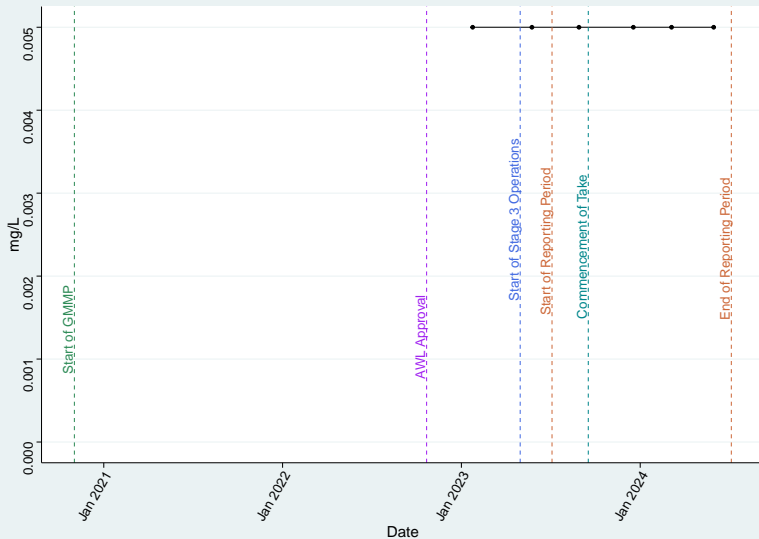
Bore 133WBR (Balgowan Coal Sequence) – Na
 Mann Kendall Trend Test | $\tau = -0.2$ | $p\text{-value} = 0.707$ | No trend



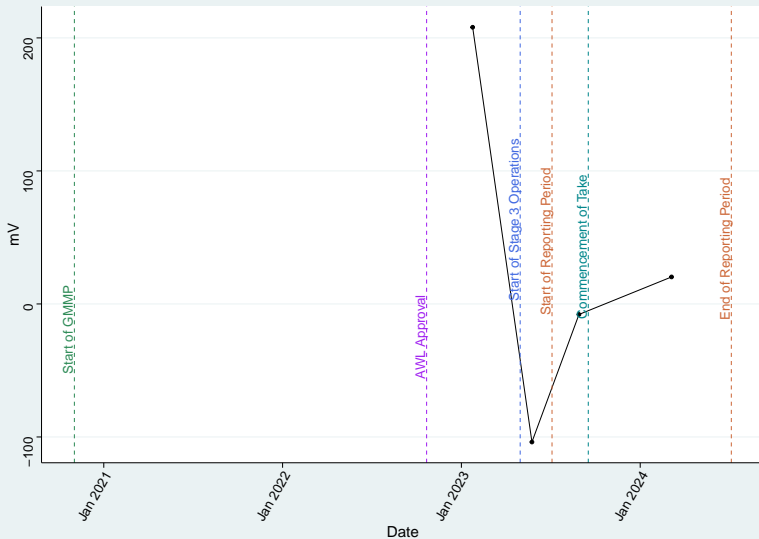
Bore 133WBR (Balgowan Coal Sequence) – Nitrate as N
 Mann Kendall Trend Test | $\tau = -0.632$ | $p\text{-value} = 0.289$ | No trend



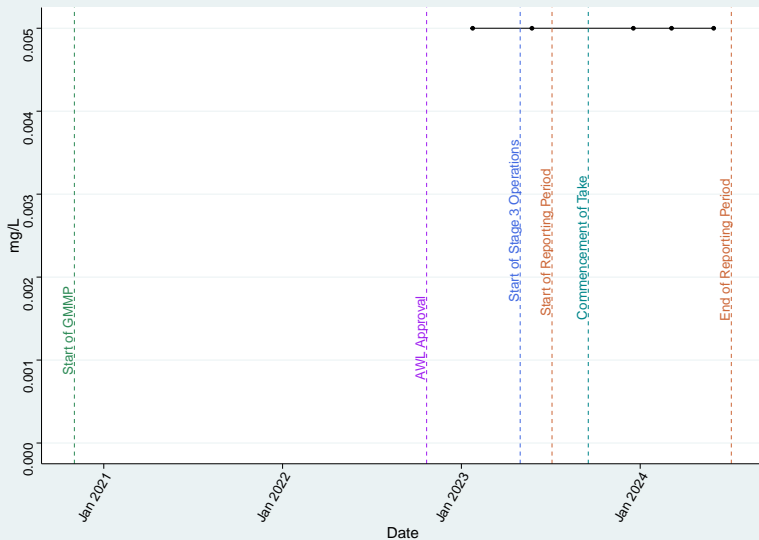
Bore 133WBR (Balgowan Coal Sequence) – Nitrite as N
 Mann Kendall Trend Test | $\tau = 1$ | $p\text{-value} = 1$ | No trend



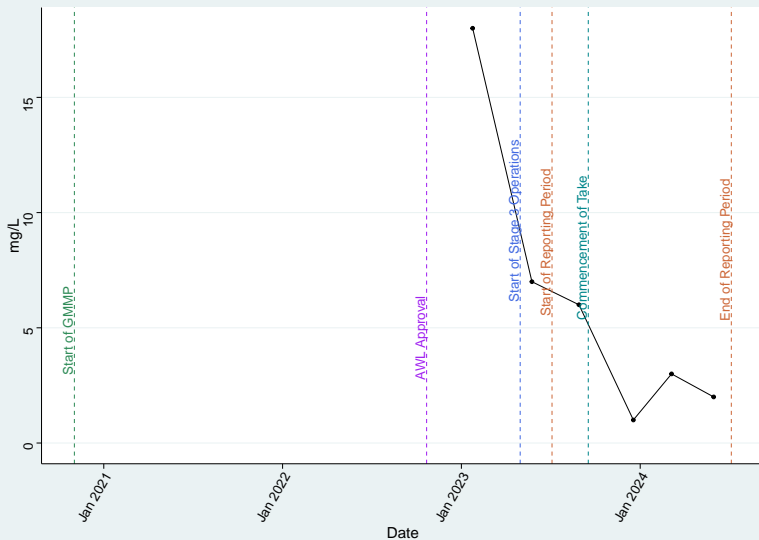
Bore 133WBR (Balgowan Coal Sequence) – Redox_Field
 Mann Kendall Trend Test | $\tau = 0$ | $p\text{-value} = 1$ | No trend



Bore 133WBR (Balgowan Coal Sequence) – Se_diss
 Mann Kendall Trend Test | $\tau = 1$ | $p\text{-value} = 1$ | No trend

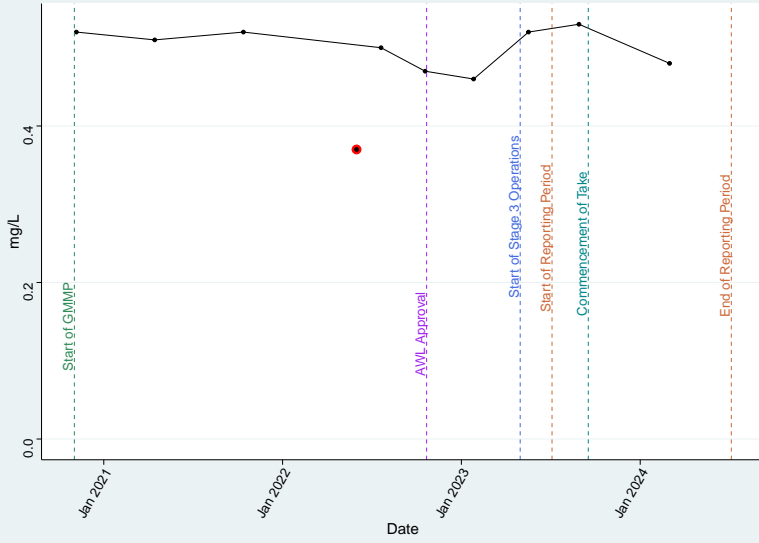


Bore 133WBR (Balgowan Coal Sequence) – SO4
 Mann Kendall Trend Test | $\tau = -0.733$ | $p\text{-value} = 0.0603$ | No trend



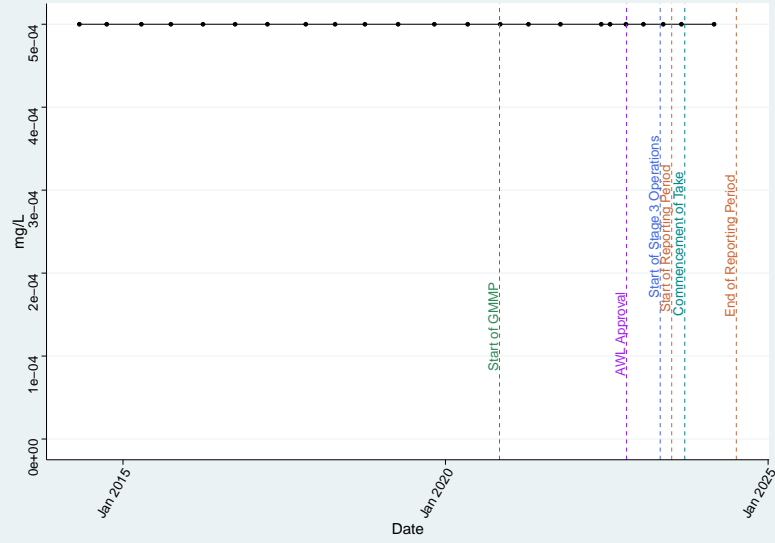
Bore 2289_Lower (Balgowan Coal Sequence) – Ammonia as N

Mann Kendall Trend Test | $\tau = -0.046$ | $p\text{-value} = 0.928$ | No trend



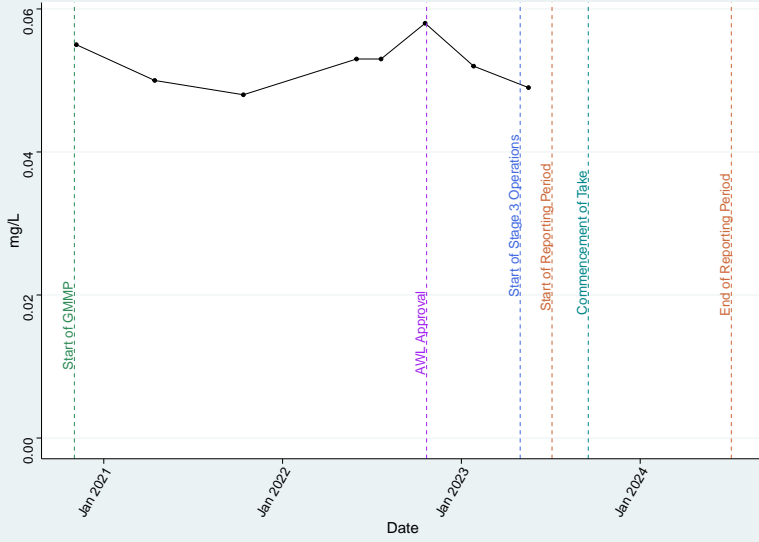
Bore 2289_Lower (Balgowan Coal Sequence) – As_diss

Mann Kendall Trend Test | $\tau = 1$ | $p\text{-value} = 1$ | No trend



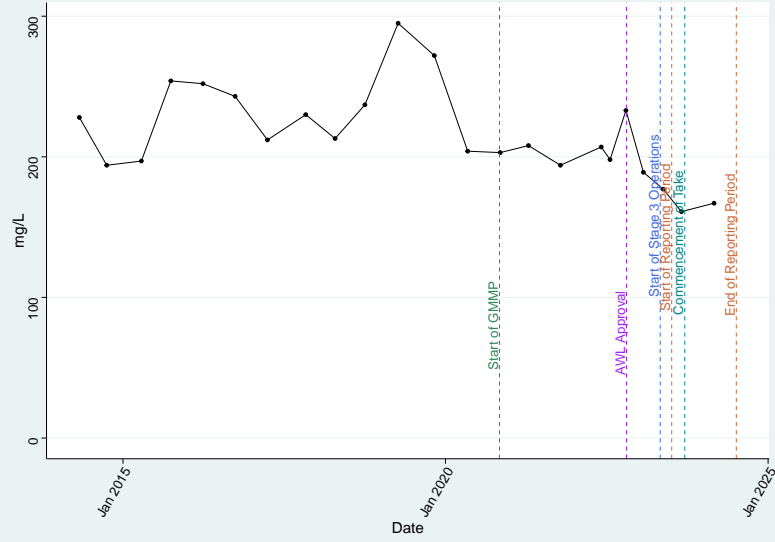
Bore 2289_Lower (Balgowan Coal Sequence) – Ba_diss

Mann Kendall Trend Test | $\tau = -0.109$ | $p\text{-value} = 0.803$ | No trend



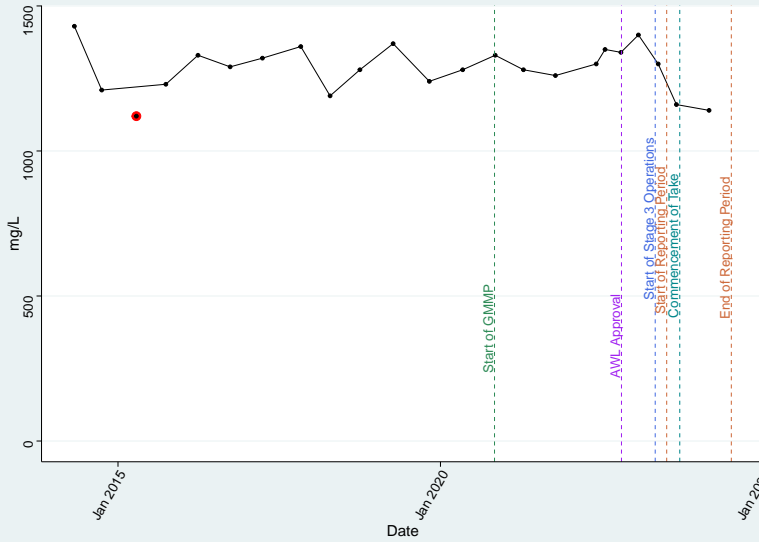
Bore 2289_Lower (Balgowan Coal Sequence) – Ca

Mann Kendall Trend Test | $\tau = -0.412$ | $p\text{-value} = 0.0065$ | Negative trend



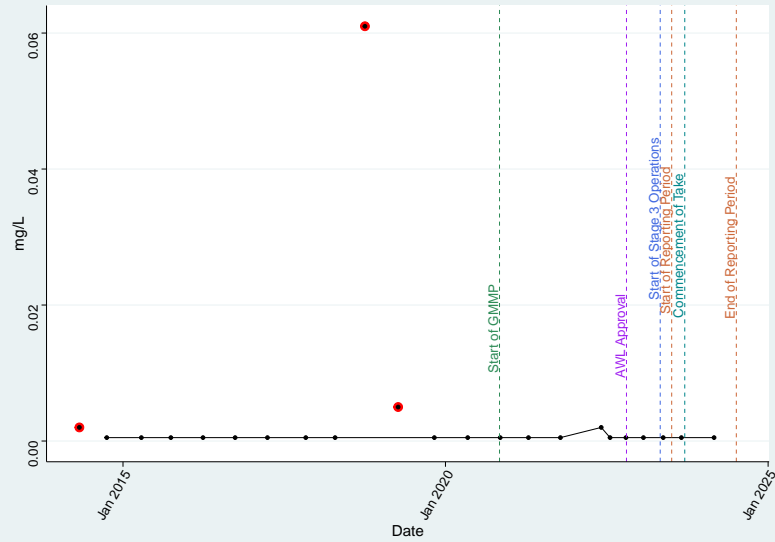
Bore 2289_Lower (Balgowan Coal Sequence) – Cl

Mann Kendall Trend Test | $\tau = 0.0319$ | $p\text{-value} = 0.853$ | No trend

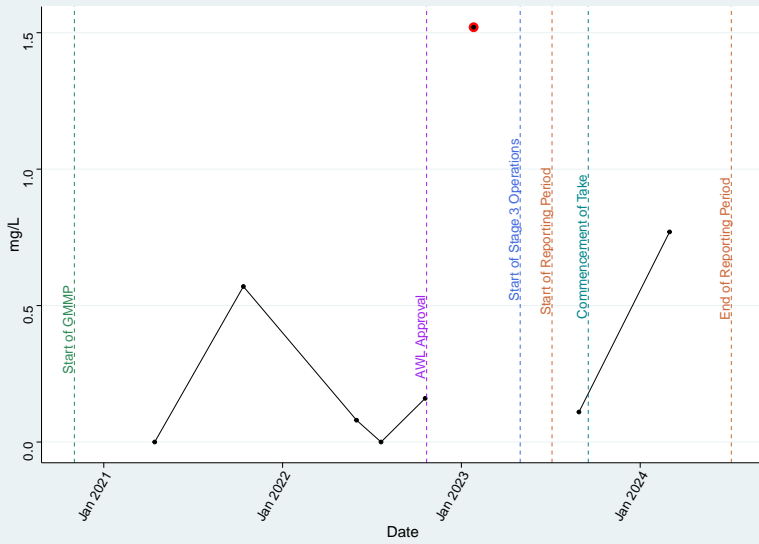


Bore 2289_Lower (Balgowan Coal Sequence) – Cu_diss

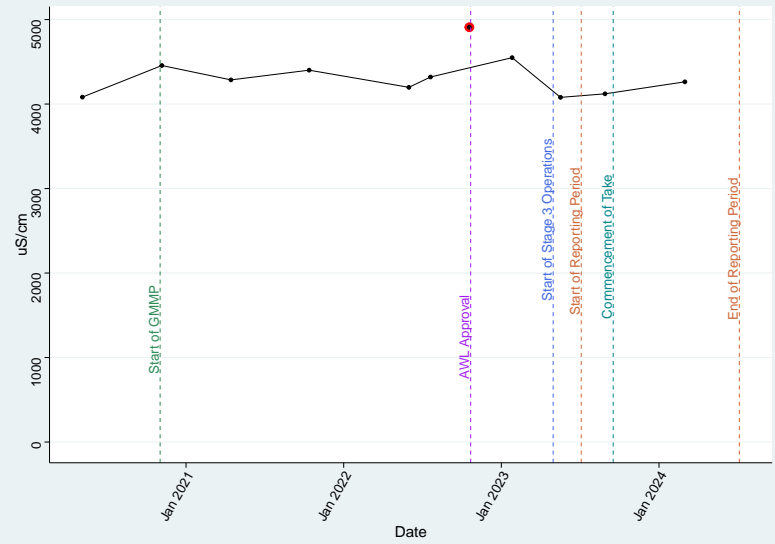
Mann Kendall Trend Test | $\tau = -0.133$ | $p\text{-value} = 0.468$ | No trend



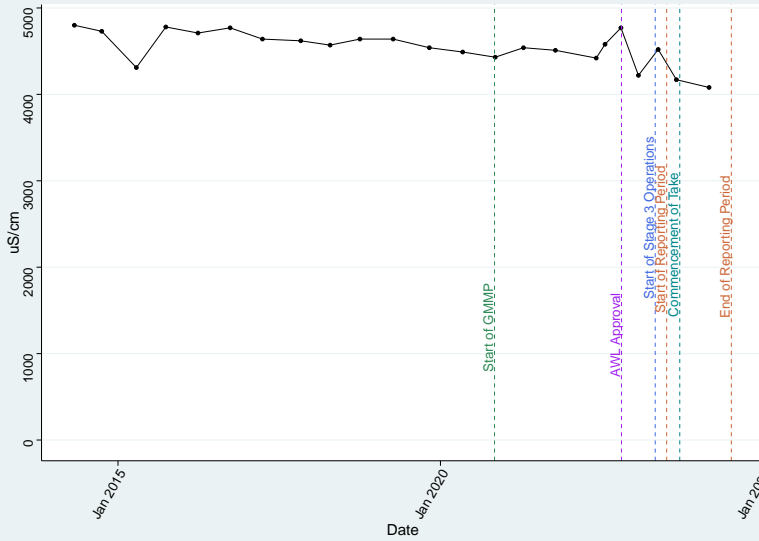
Bore 2289_Lower (Balgowan Coal Sequence) – DO_Field
 Mann Kendall Trend Test | $\tau = 0.36$ | p-value = 0.178 | No trend



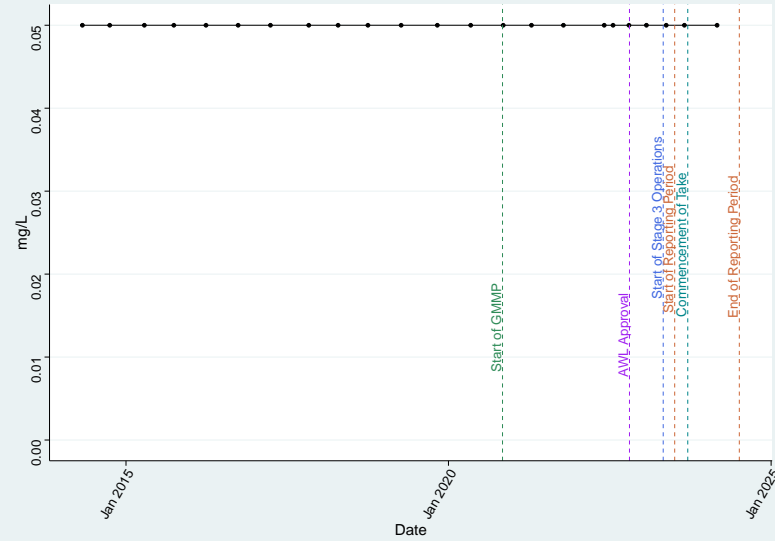
Bore 2289_Lower (Balgowan Coal Sequence) – EC_Field
 Mann Kendall Trend Test | $\tau = -0.0545$ | p-value = 0.876 | No trend



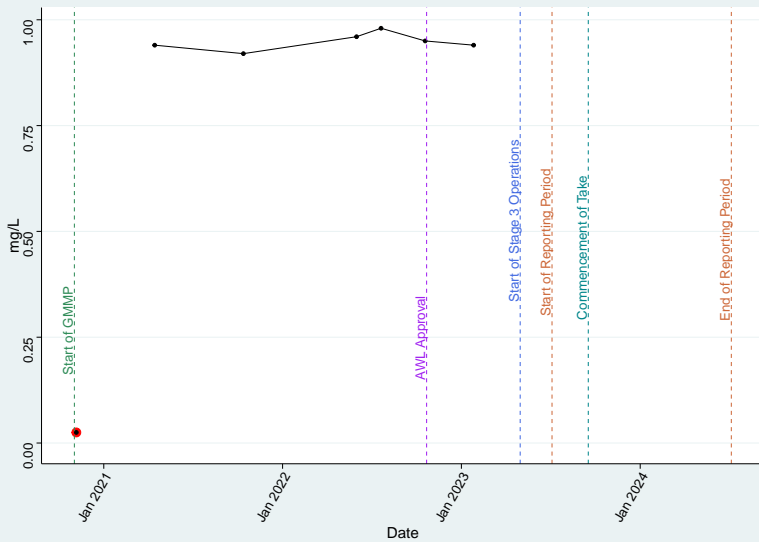
Bore 2289_Lower (Balgowan Coal Sequence) – EC_Lab
 Mann Kendall Trend Test | $\tau = -0.559$ | p-value = 0.000235 | Negative trend



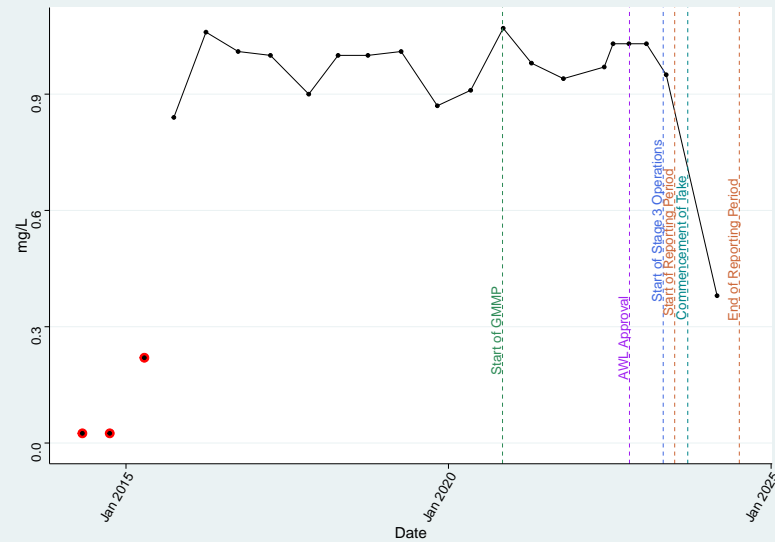
Bore 2289_Lower (Balgowan Coal Sequence) – F
 Mann Kendall Trend Test | $\tau = 1$ | p-value = 1 | No trend



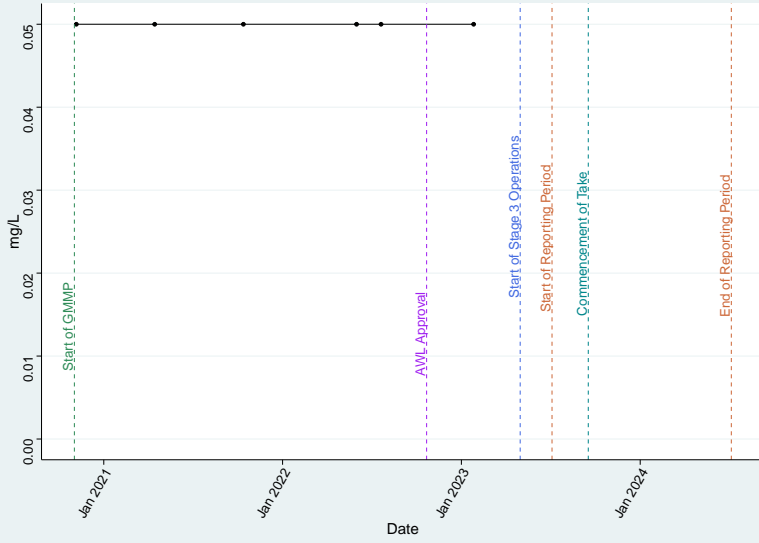
Bore 2289_Lower (Balgowan Coal Sequence) – Fe2
 Mann Kendall Trend Test | $\tau = 0.39$ | p-value = 0.288 | No trend



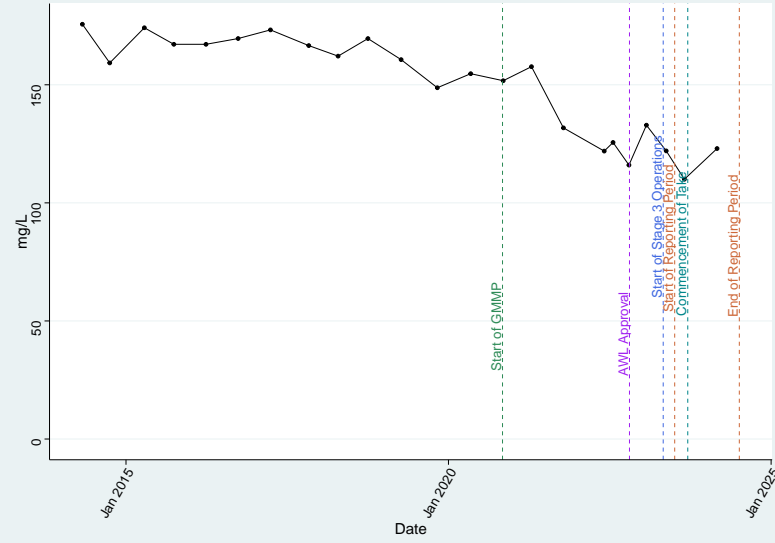
Bore 2289_Lower (Balgowan Coal Sequence) – Fe_diss
 Mann Kendall Trend Test | $\tau = 0.251$ | p-value = 0.113 | No trend



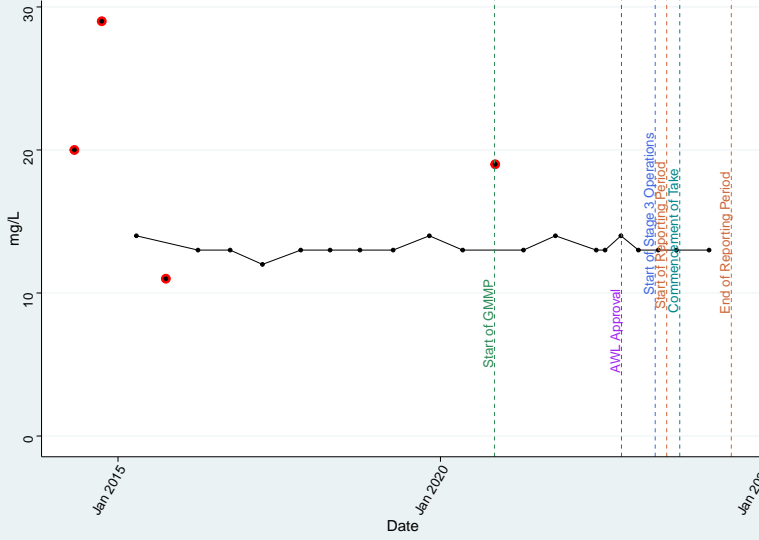
Bore 2289_Lower (Balgowan Coal Sequence) – H2S
Mann Kendall Trend Test | $\tau = 1$ | p-value = 1 | No trend



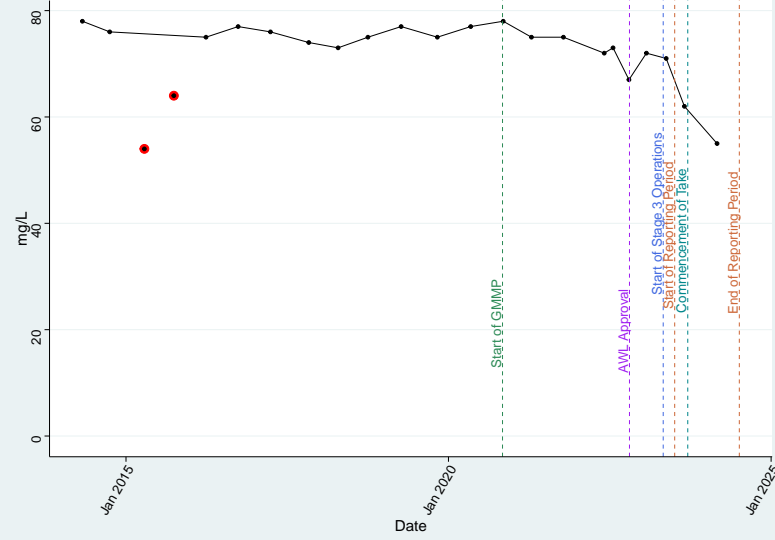
Bore 2289_Lower (Balgowan Coal Sequence) – HCO3
Mann Kendall Trend Test | $\tau = -0.729$ | p-value = 0.00000133 | Negative trend



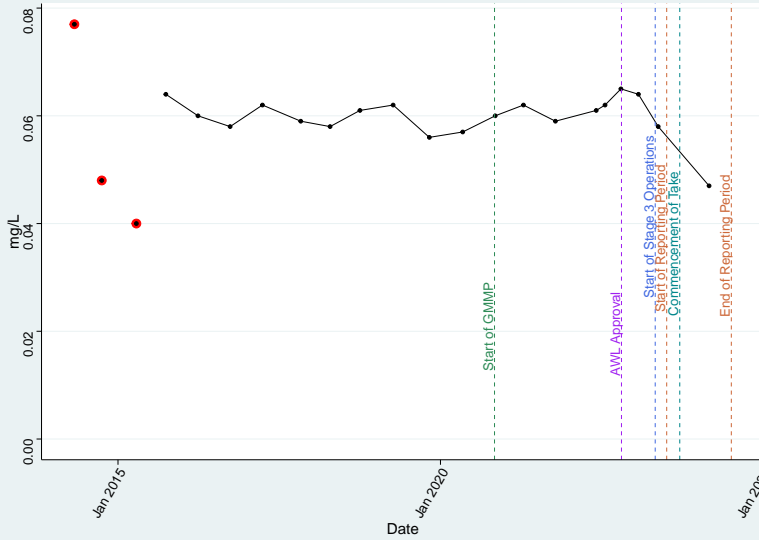
Bore 2289_Lower (Balgowan Coal Sequence) – K
Mann Kendall Trend Test | $\tau = -0.0906$ | p-value = 0.607 | No trend



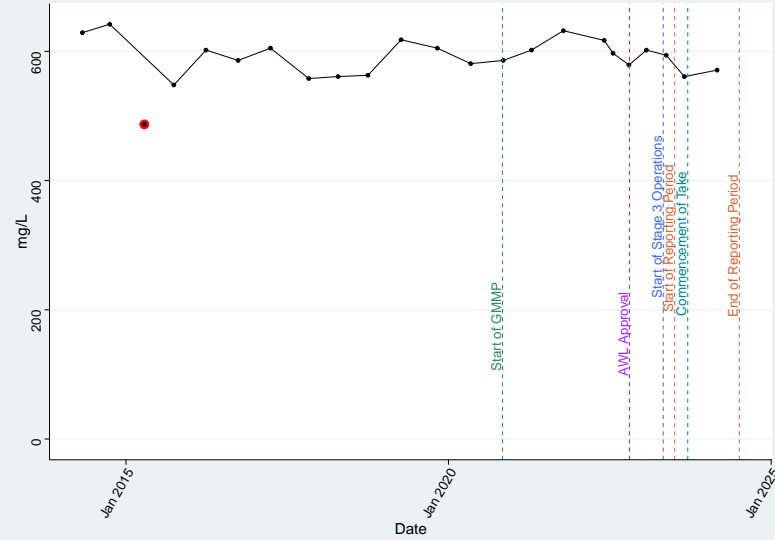
Bore 2289_Lower (Balgowan Coal Sequence) – Mg
Mann Kendall Trend Test | $\tau = -0.36$ | p-value = 0.0205 | Negative trend



Bore 2289_Lower (Balgowan Coal Sequence) – Mn_diss
Mann Kendall Trend Test | $\tau = 0.0624$ | p-value = 0.712 | No trend

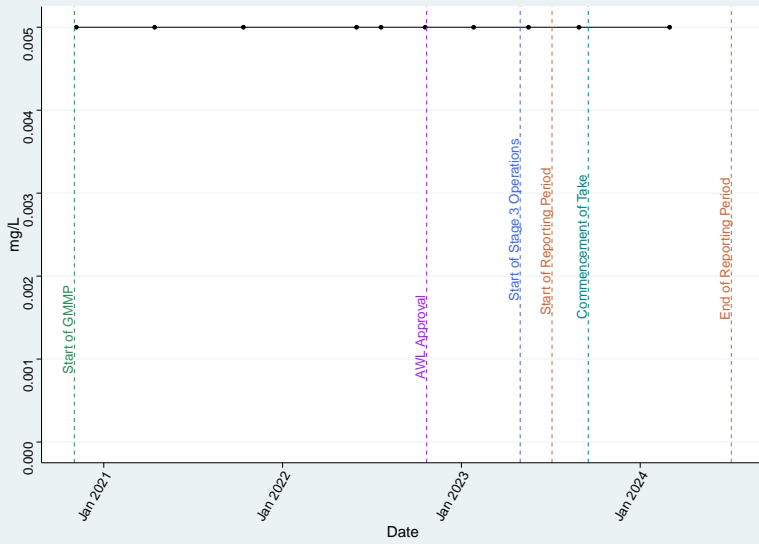


Bore 2289_Lower (Balgowan Coal Sequence) – Na
Mann Kendall Trend Test | $\tau = -0.028$ | p-value = 0.874 | No trend



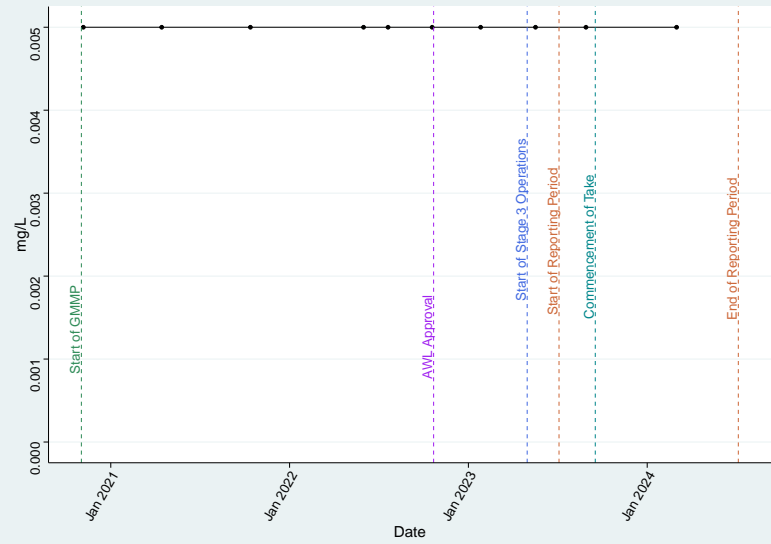
Bore 2289_Lower (Balgowan Coal Sequence) – Nitrate as N

Mann Kendall Trend Test | $\tau = 1$ | p-value = 1 | No trend



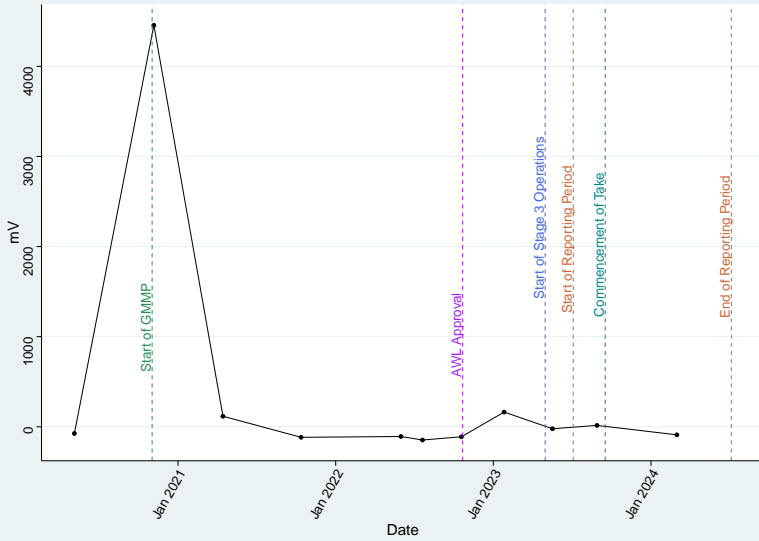
Bore 2289_Lower (Balgowan Coal Sequence) – Nitrite as N

Mann Kendall Trend Test | $\tau = 1$ | p-value = 1 | No trend



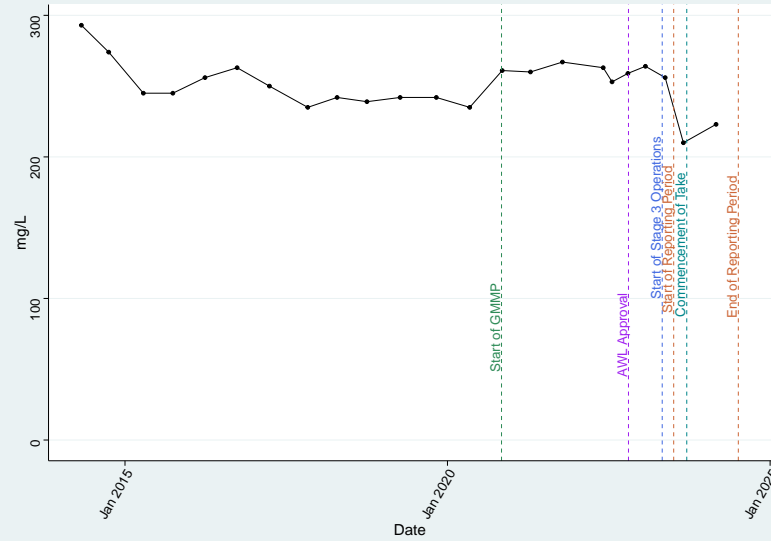
Bore 2289_Lower (Balgowan Coal Sequence) – Redox_Field

Mann Kendall Trend Test | $\tau = -0.0545$ | p-value = 0.876 | No trend



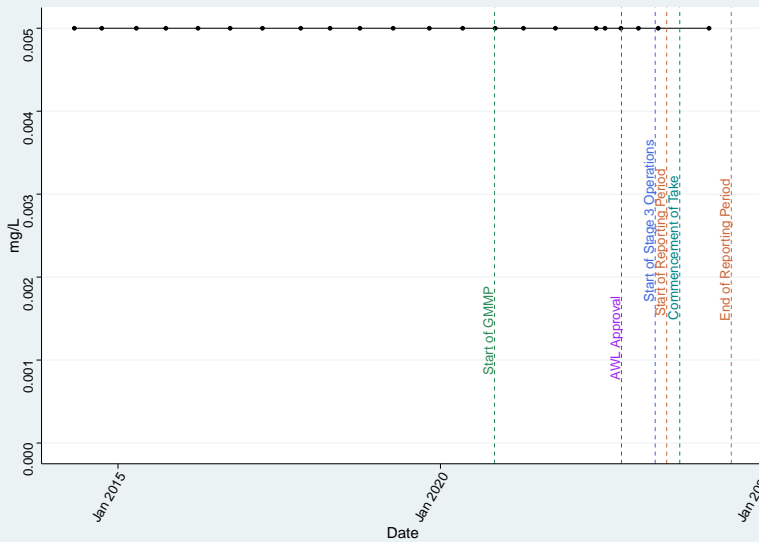
Bore 2289_Lower (Balgowan Coal Sequence) – SO4

Mann Kendall Trend Test | $\tau = -0.144$ | p-value = 0.354 | No trend



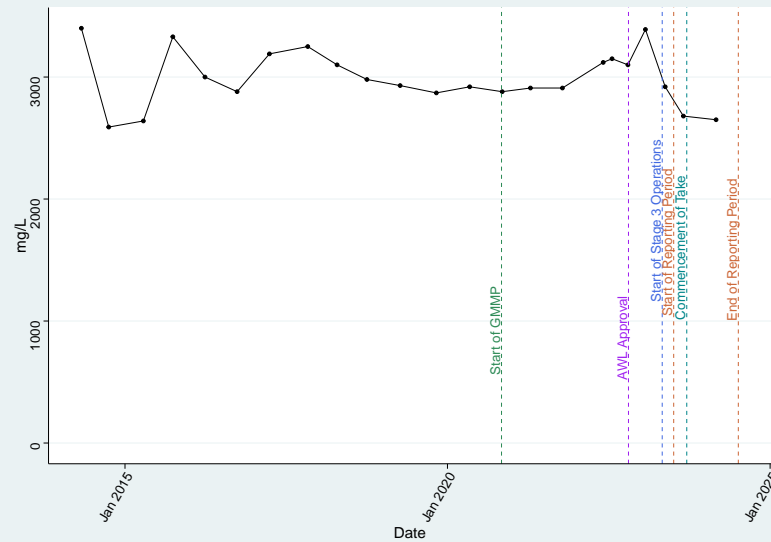
Bore 2289_Lower (Balgowan Coal Sequence) – Se_diss

Mann Kendall Trend Test | $\tau = 1$ | p-value = 1 | No trend

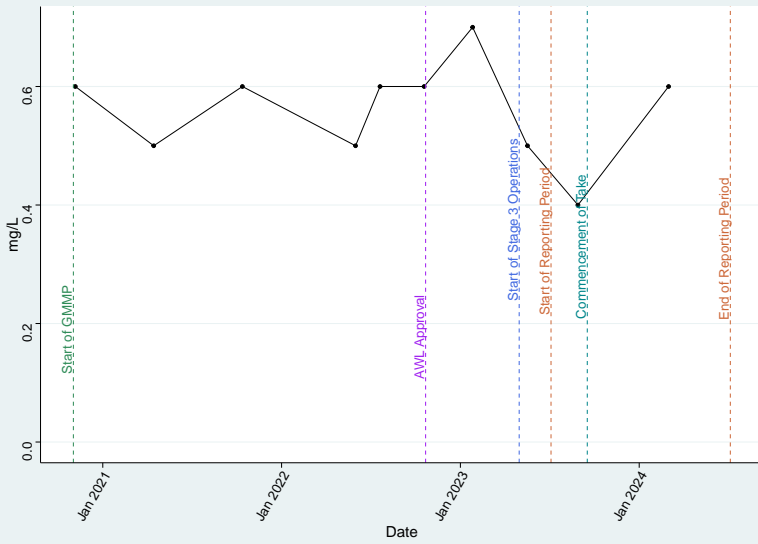


Bore 2289_Lower (Balgowan Coal Sequence) – TDS

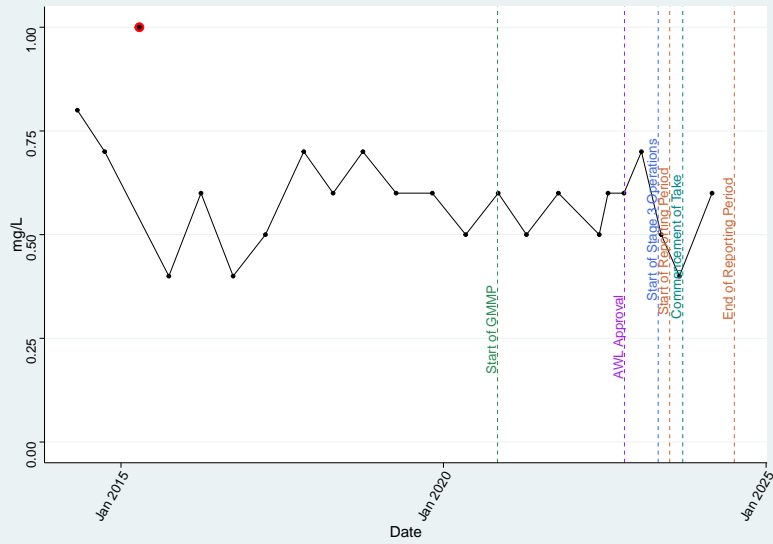
Mann Kendall Trend Test | $\tau = -0.116$ | p-value = 0.459 | No trend



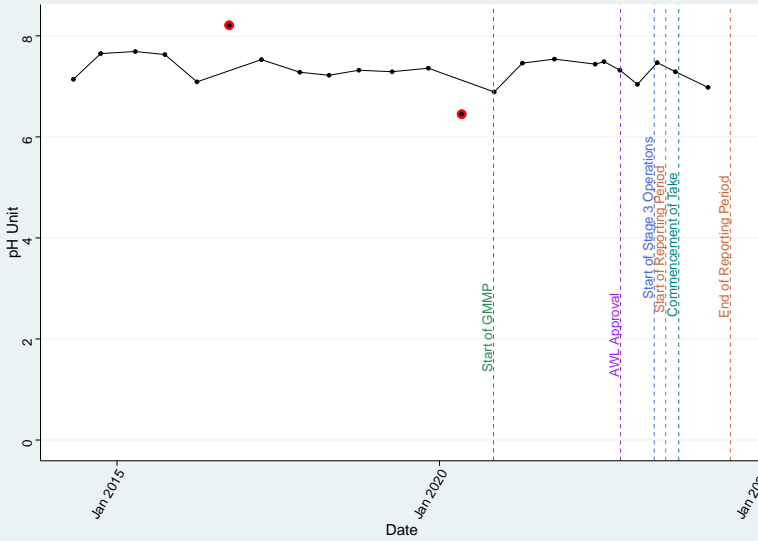
Bore 2289_Lower (Balgowan Coal Sequence) – TKN
 Mann Kendall Trend Test | $\tau = -0.0527$ | $p\text{-value} = 0.922$ | No trend



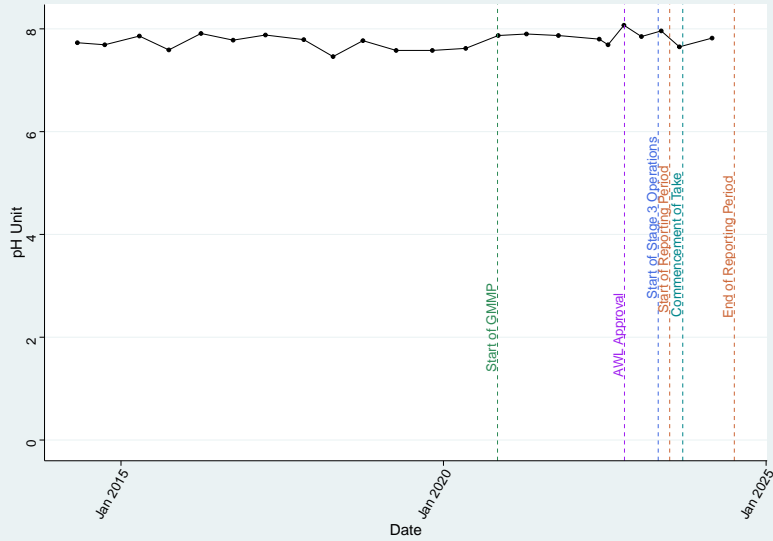
Bore 2289_Lower (Balgowan Coal Sequence) – Total_N
 Mann Kendall Trend Test | $\tau = -0.223$ | $p\text{-value} = 0.176$ | No trend



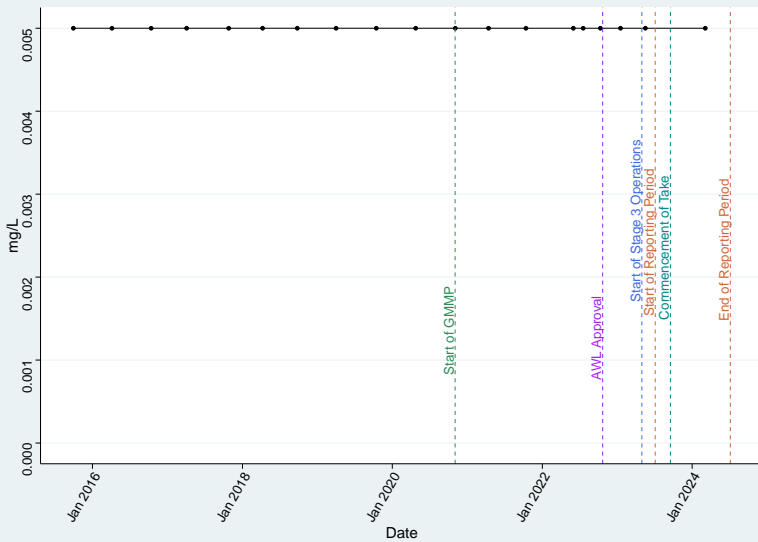
Bore 2289_Lower (Balgowan Coal Sequence) – pH_Field
 Mann Kendall Trend Test | $\tau = -0.194$ | $p\text{-value} = 0.205$ | No trend



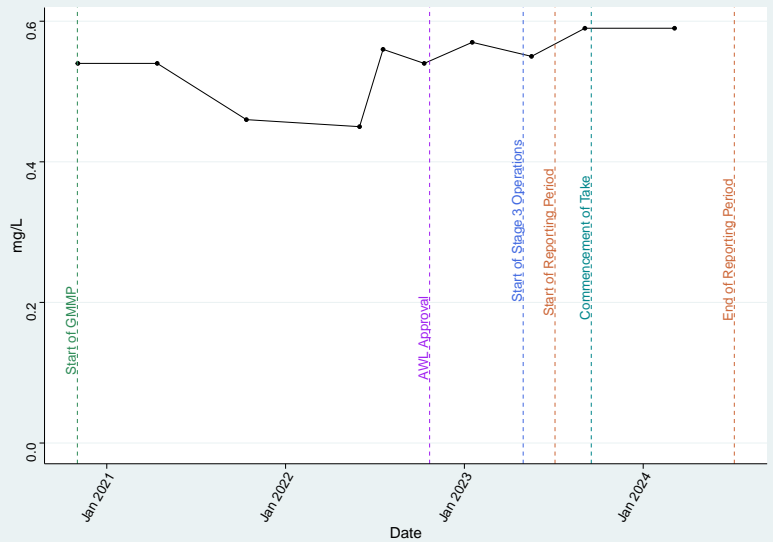
Bore 2289_Lower (Balgowan Coal Sequence) – pH_Lab
 Mann Kendall Trend Test | $\tau = 0.159$ | $p\text{-value} = 0.303$ | No trend



Bore 25PcR (Balgowan Coal Sequence) – Al_diss
 Mann Kendall Trend Test | $\tau = 1$ | $p\text{-value} = 1$ | No trend

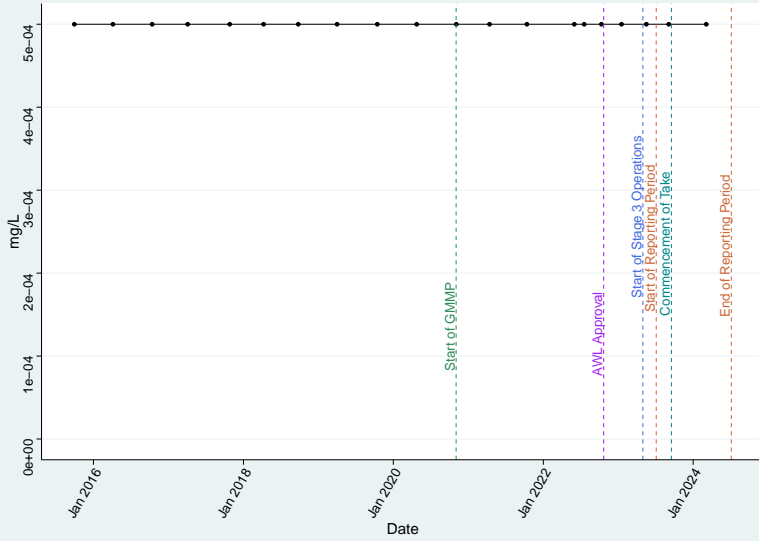


Bore 25PcR (Balgowan Coal Sequence) – Ammonia as N
 Mann Kendall Trend Test | $\tau = 0.582$ | $p\text{-value} = 0.0287$ | Positive trend



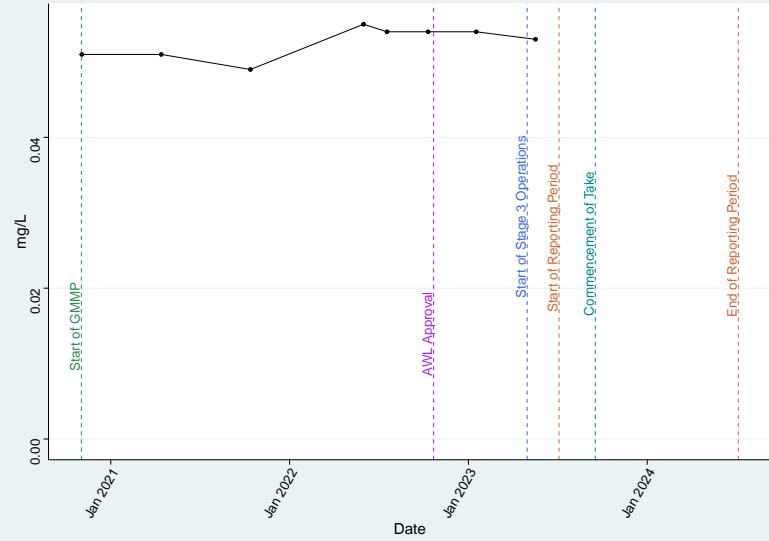
Bore 25PcR (Balgowan Coal Sequence) – As_diss

Mann Kendall Trend Test | $\tau = 1$ | p-value = 1 | No trend



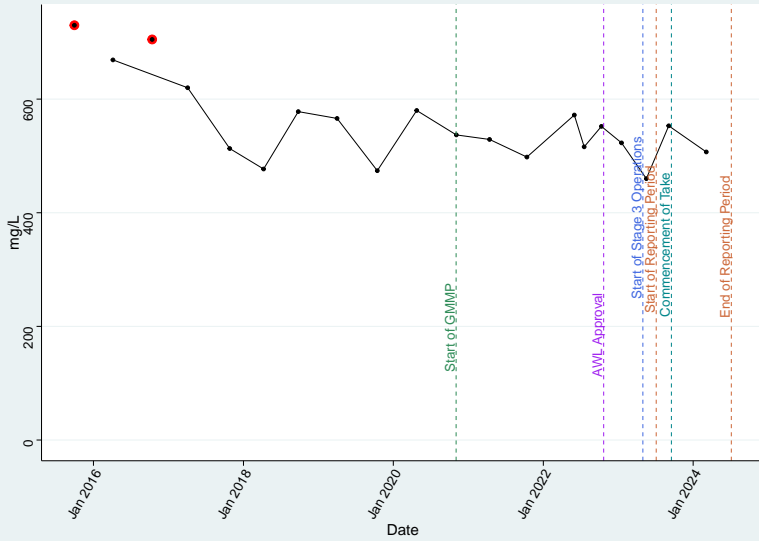
Bore 25PcR (Balgowan Coal Sequence) – Ba_diss

Mann Kendall Trend Test | $\tau = 0.231$ | p-value = 0.521 | No trend



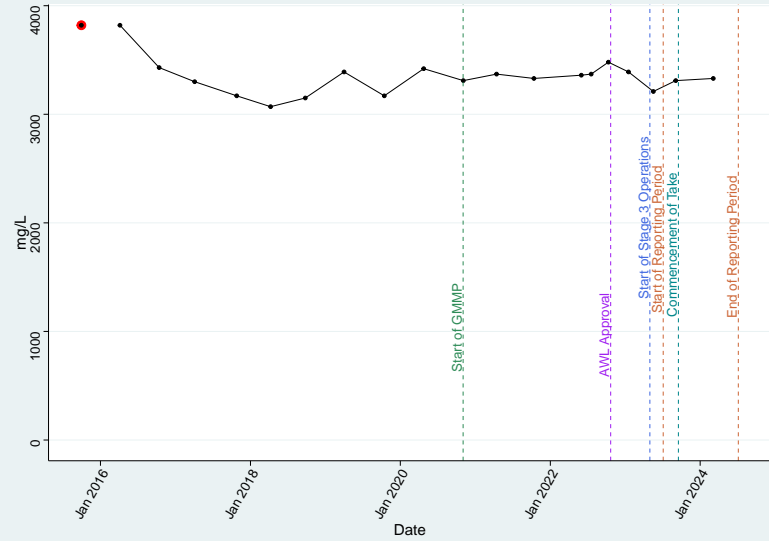
Bore 25PcR (Balgowan Coal Sequence) – Ca

Mann Kendall Trend Test | $\tau = -0.421$ | p-value = 0.0104 | Negative trend



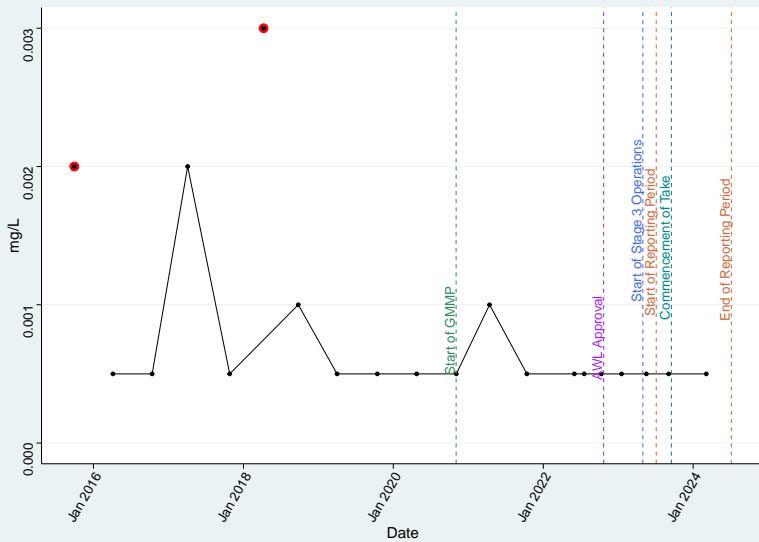
Bore 25PcR (Balgowan Coal Sequence) – Cl

Mann Kendall Trend Test | $\tau = -0.0642$ | p-value = 0.72 | No trend



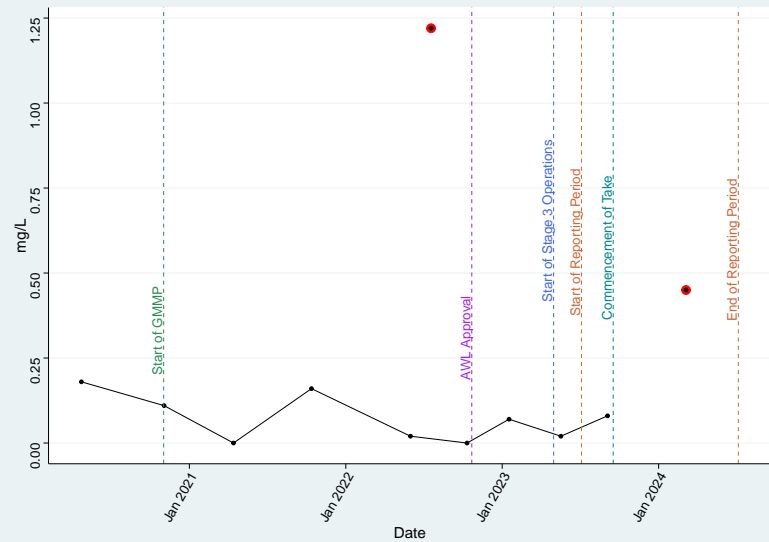
Bore 25PcR (Balgowan Coal Sequence) – Cu_diss

Mann Kendall Trend Test | $\tau = -0.39$ | p-value = 0.0388 | Negative trend



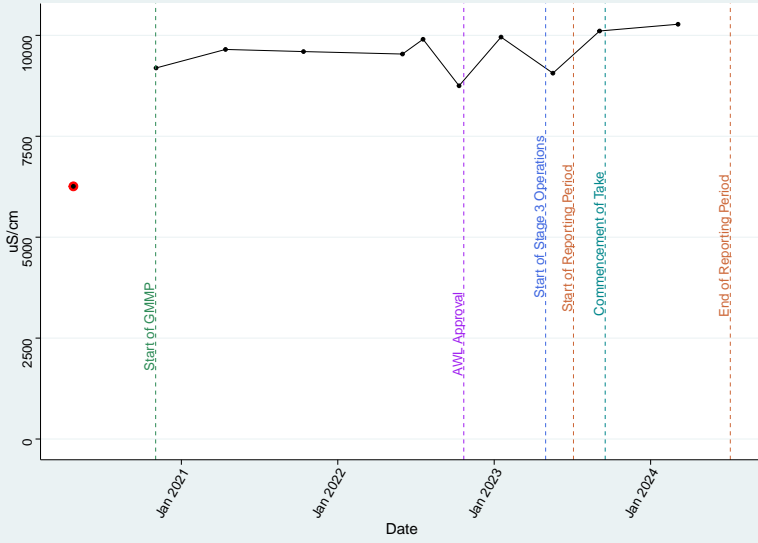
Bore 25PcR (Balgowan Coal Sequence) – DO_Field

Mann Kendall Trend Test | $\tau = 0.0185$ | p-value = 1 | No trend



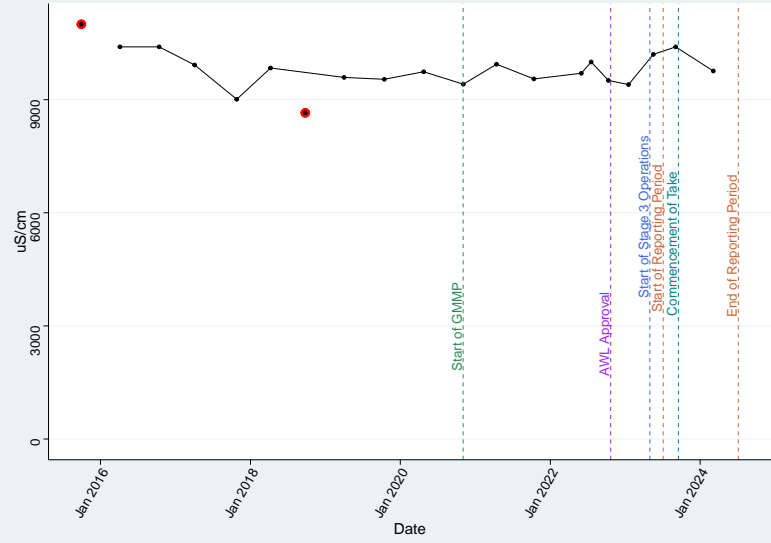
Bore 25PcR (Balgowan Coal Sequence) – EC_Field

Mann Kendall Trend Test | $\tau = 0.491$ | $p\text{-value} = 0.043$ | Positive trend



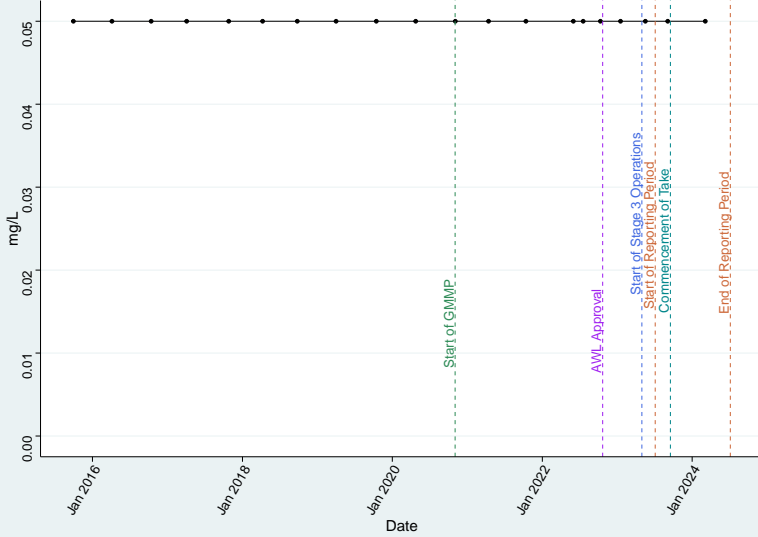
Bore 25PcR (Balgowan Coal Sequence) – EC_Lab

Mann Kendall Trend Test | $\tau = -0.101$ | $p\text{-value} = 0.558$ | No trend



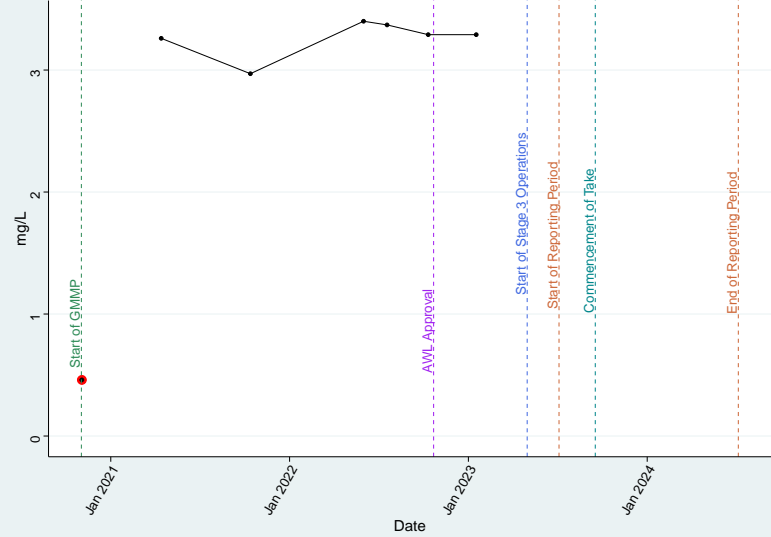
Bore 25PcR (Balgowan Coal Sequence) – F

Mann Kendall Trend Test | $\tau = 1$ | $p\text{-value} = 1$ | No trend



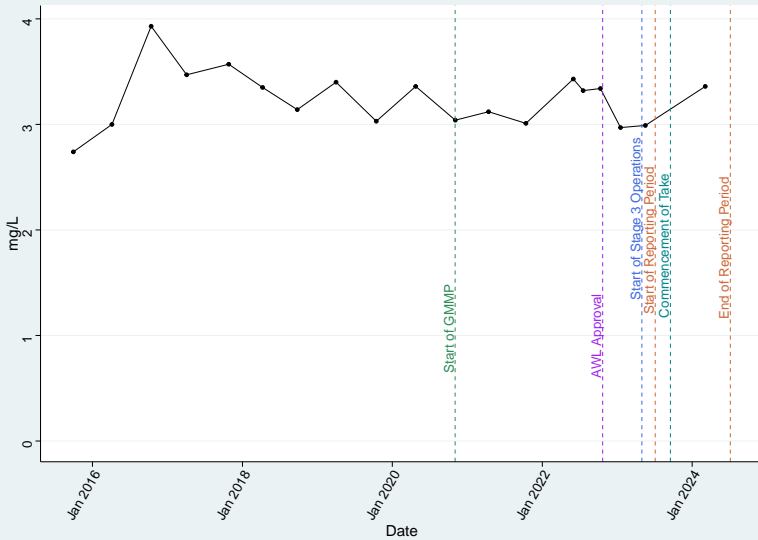
Bore 25PcR (Balgowan Coal Sequence) – Fe2

Mann Kendall Trend Test | $\tau = 0.39$ | $p\text{-value} = 0.288$ | No trend



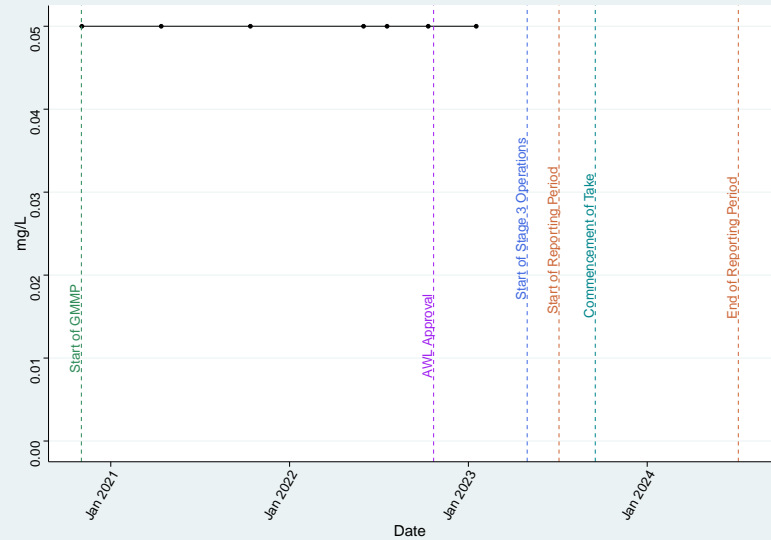
Bore 25PcR (Balgowan Coal Sequence) – Fe_diss

Mann Kendall Trend Test | $\tau = -0.152$ | $p\text{-value} = 0.381$ | No trend



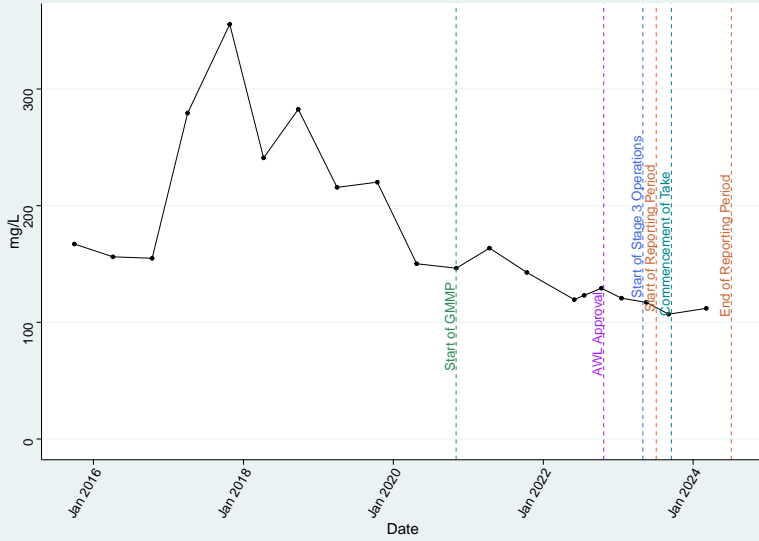
Bore 25PcR (Balgowan Coal Sequence) – H2S

Mann Kendall Trend Test | $\tau = 1$ | $p\text{-value} = 1$ | No trend



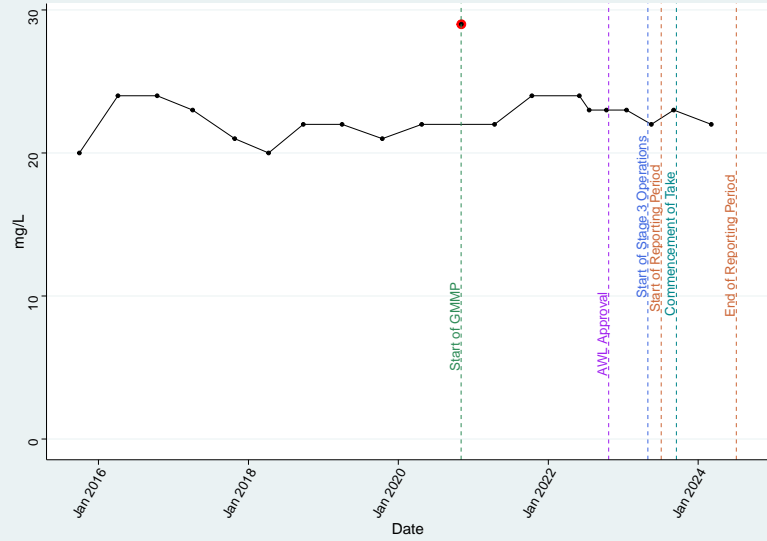
Bore 25PcR (Balgowan Coal Sequence) – HCO3

Mann Kendall Trend Test | $\tau = -0.674$ | $p\text{-value} = 0.0000378$ | Negative trend



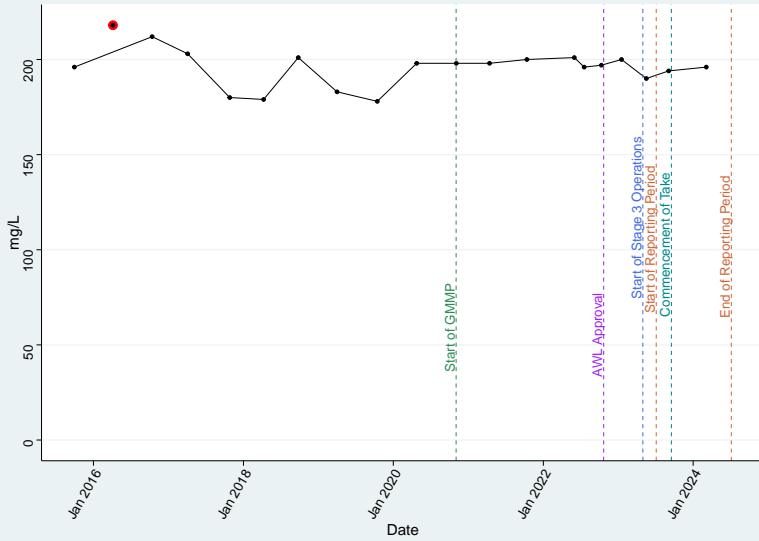
Bore 25PcR (Balgowan Coal Sequence) – K

Mann Kendall Trend Test | $\tau = 0.122$ | $p\text{-value} = 0.504$ | No trend



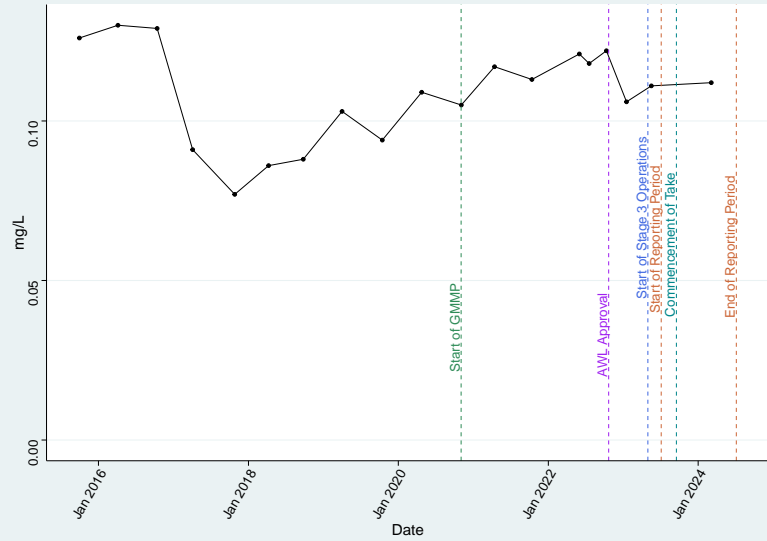
Bore 25PcR (Balgowan Coal Sequence) – Mg

Mann Kendall Trend Test | $\tau = -0.172$ | $p\text{-value} = 0.312$ | No trend



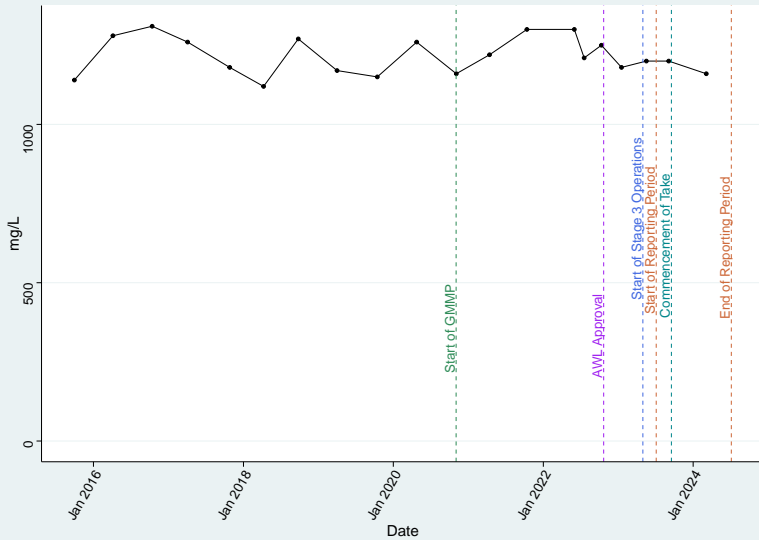
Bore 25PcR (Balgowan Coal Sequence) – Mn_diss

Mann Kendall Trend Test | $\tau = 0.158$ | $p\text{-value} = 0.363$ | No trend



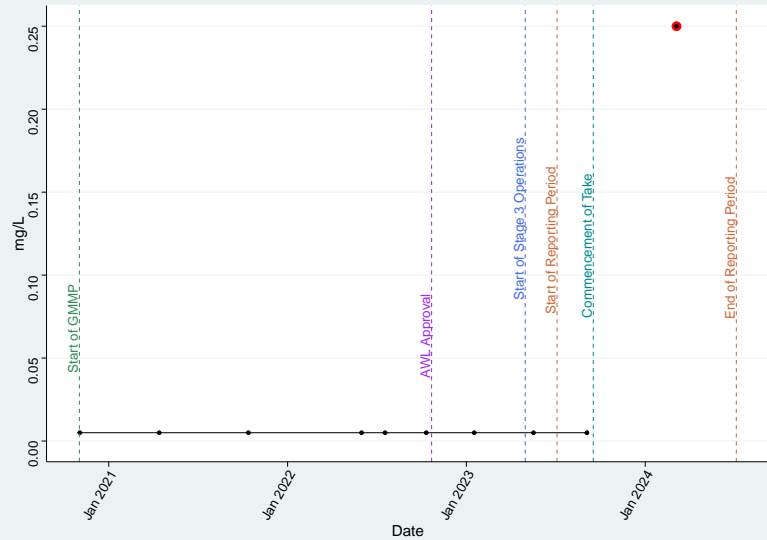
Bore 25PcR (Balgowan Coal Sequence) – Na

Mann Kendall Trend Test | $\tau = -0.08$ | $p\text{-value} = 0.649$ | No trend



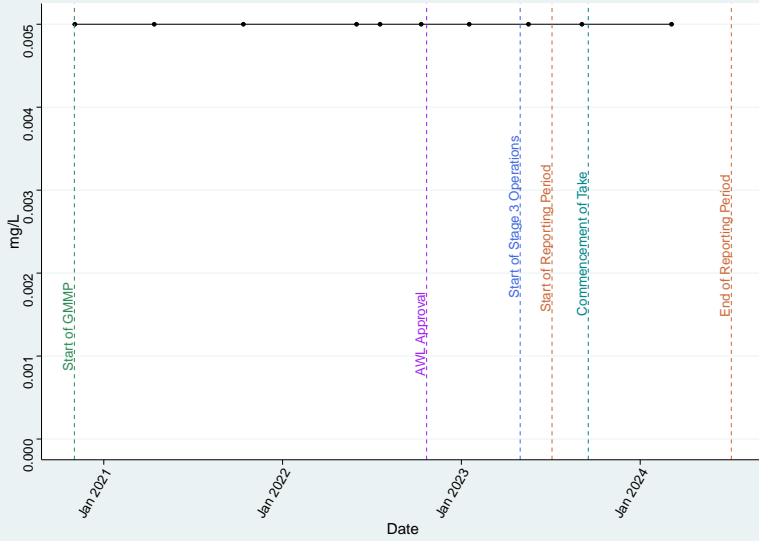
Bore 25PcR (Balgowan Coal Sequence) – Nitrate as N

Mann Kendall Trend Test | $\tau = 0.447$ | $p\text{-value} = 0.164$ | No trend



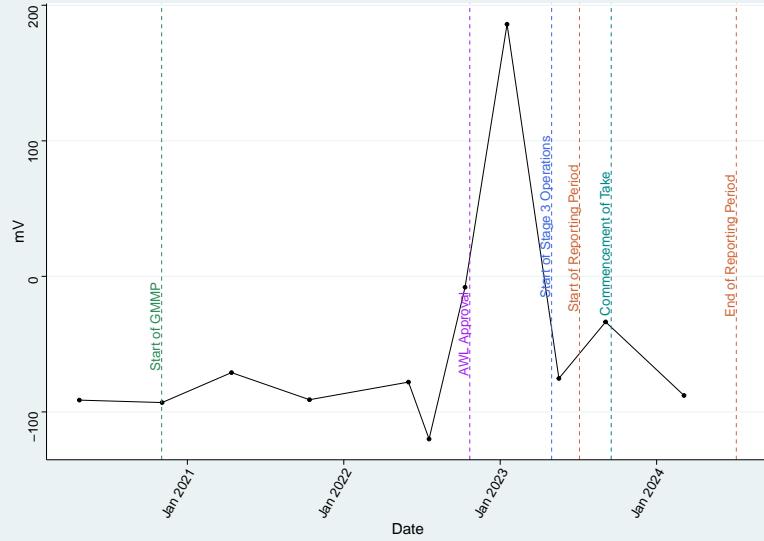
Bore 25PcR (Balgowan Coal Sequence) – Nitrite as N

Mann Kendall Trend Test | $\tau = 1$ | p-value = 1 | No trend



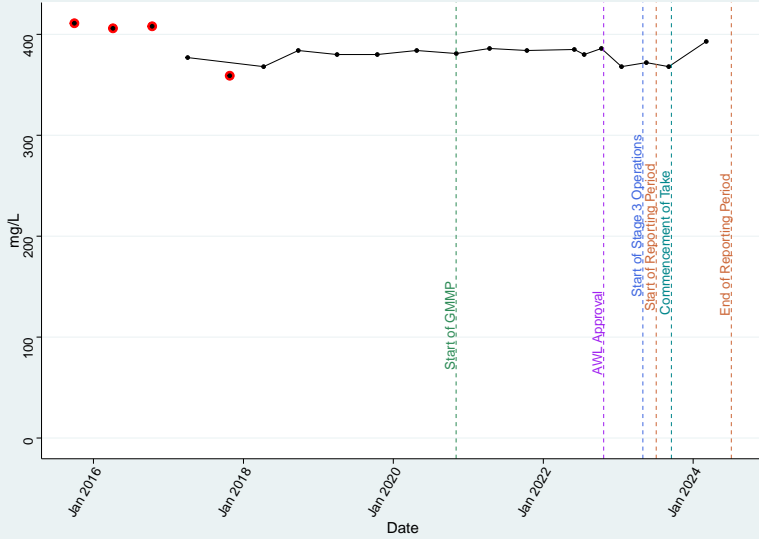
Bore 25PcR (Balgowan Coal Sequence) – Redox_Field

Mann Kendall Trend Test | $\tau = 0.309$ | p-value = 0.213 | No trend



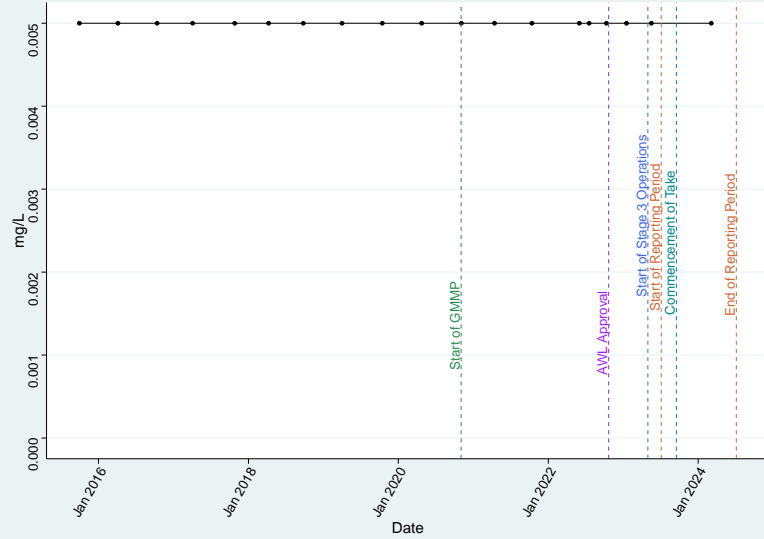
Bore 25PcR (Balgowan Coal Sequence) – SO4

Mann Kendall Trend Test | $\tau = -0.119$ | p-value = 0.493 | No trend



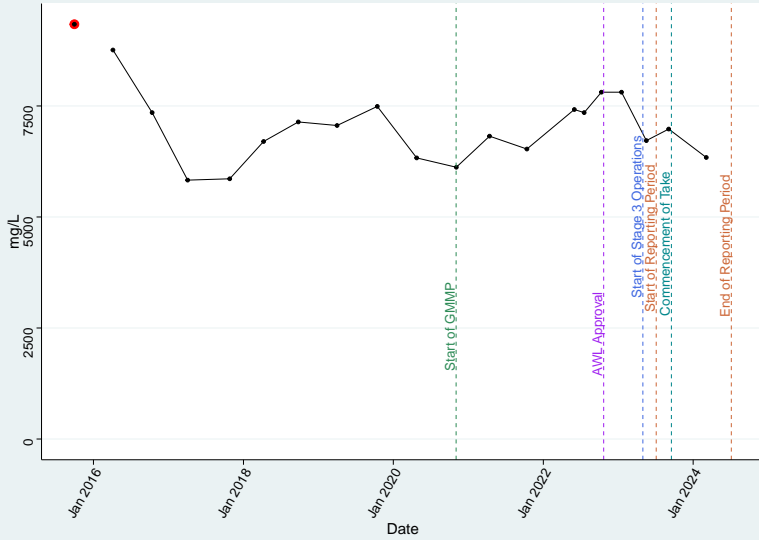
Bore 25PcR (Balgowan Coal Sequence) – Se_diss

Mann Kendall Trend Test | $\tau = 1$ | p-value = 1 | No trend



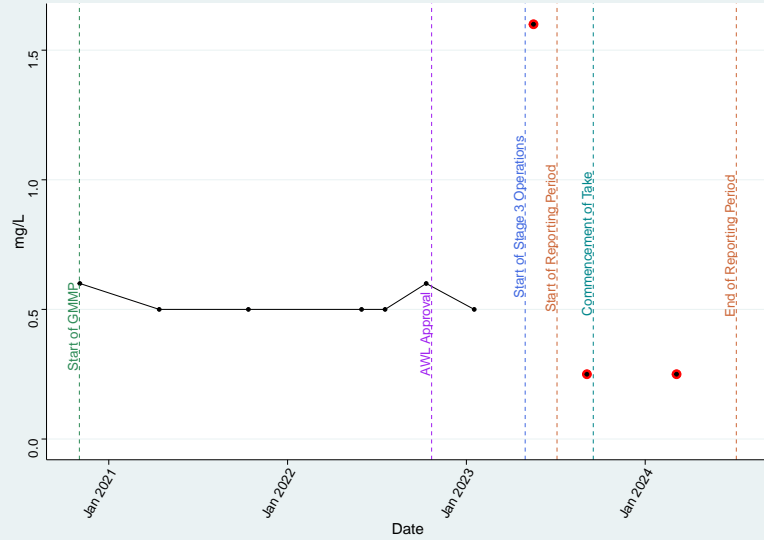
Bore 25PcR (Balgowan Coal Sequence) – TDS

Mann Kendall Trend Test | $\tau = -0.0317$ | p-value = 0.871 | No trend



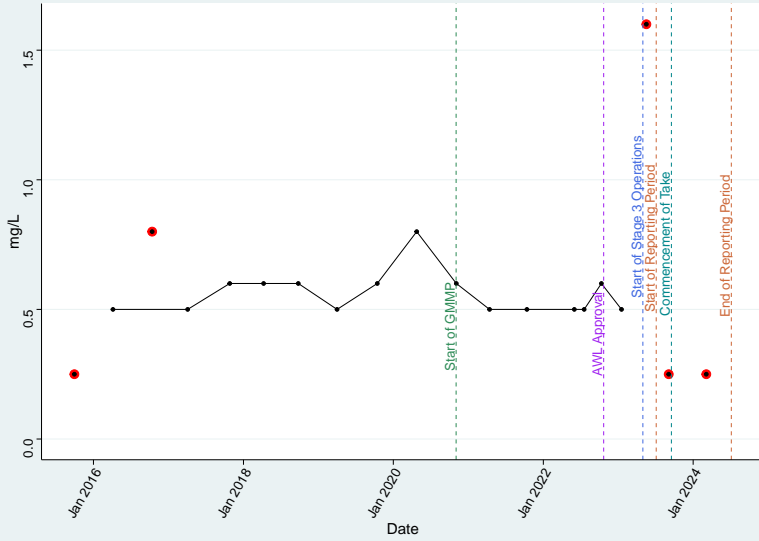
Bore 25PcR (Balgowan Coal Sequence) – TKN

Mann Kendall Trend Test | $\tau = -0.285$ | p-value = 0.332 | No trend



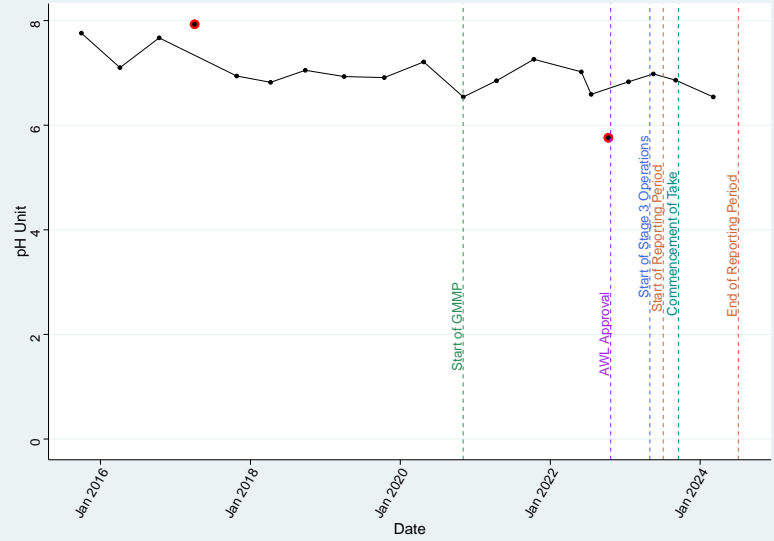
Bore 25PcR (Balgowan Coal Sequence) – Total_N

Mann Kendall Trend Test | $\tau = -0.14$ | p-value = 0.451 | No trend



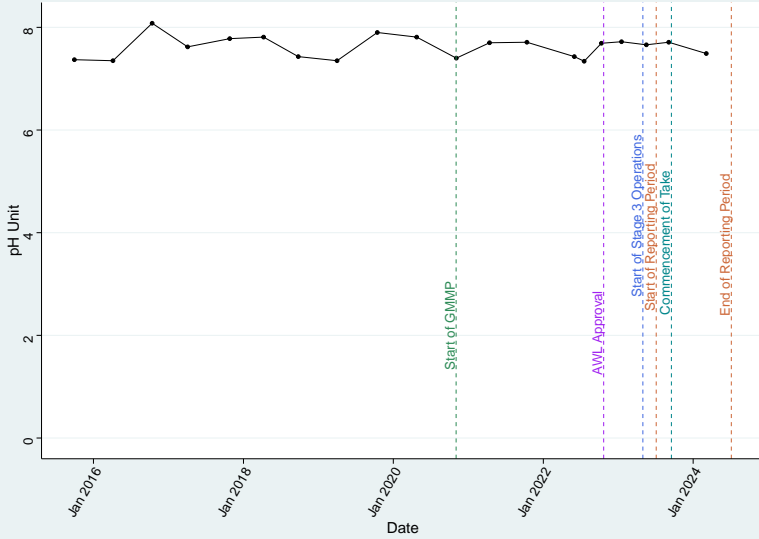
Bore 25PcR (Balgowan Coal Sequence) – pH_Field

Mann Kendall Trend Test | $\tau = -0.449$ | p-value = 0.0064 | Negative trend



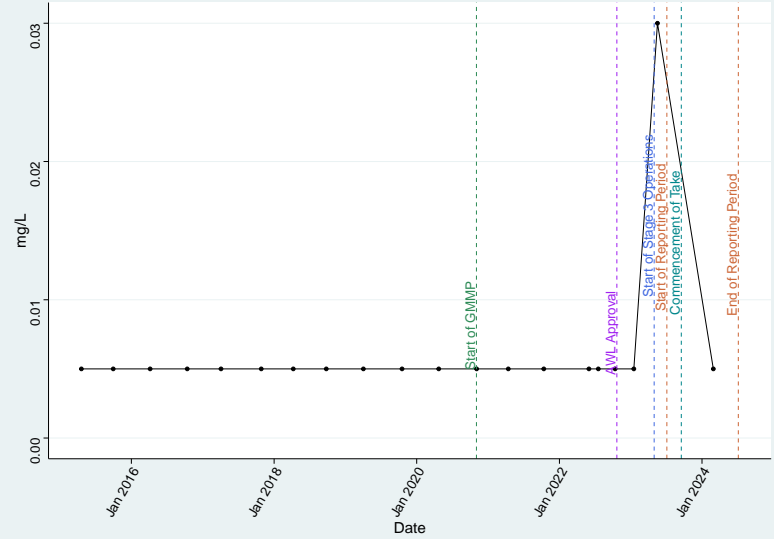
Bore 25PcR (Balgowan Coal Sequence) – pH_Lab

Mann Kendall Trend Test | $\tau = -0.0213$ | p-value = 0.922 | No trend



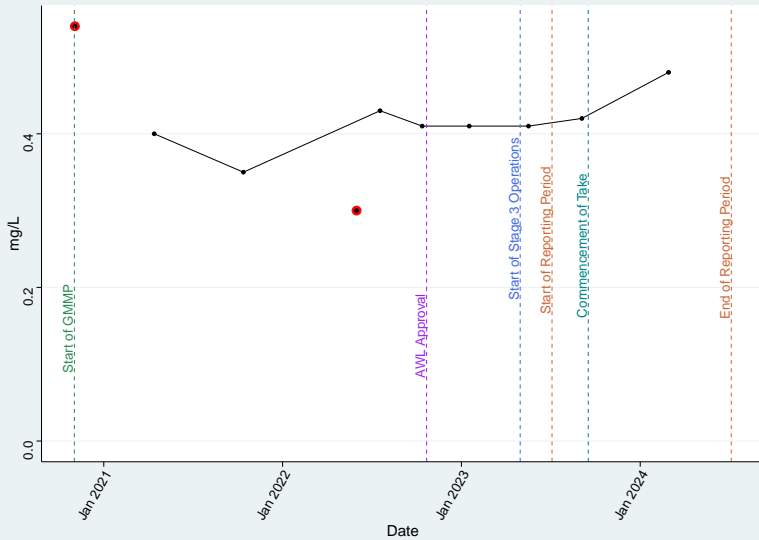
Bore 26PcR (Balgowan Coal Sequence) – Al_diss

Mann Kendall Trend Test | $\tau = 0.283$ | p-value = 0.165 | No trend



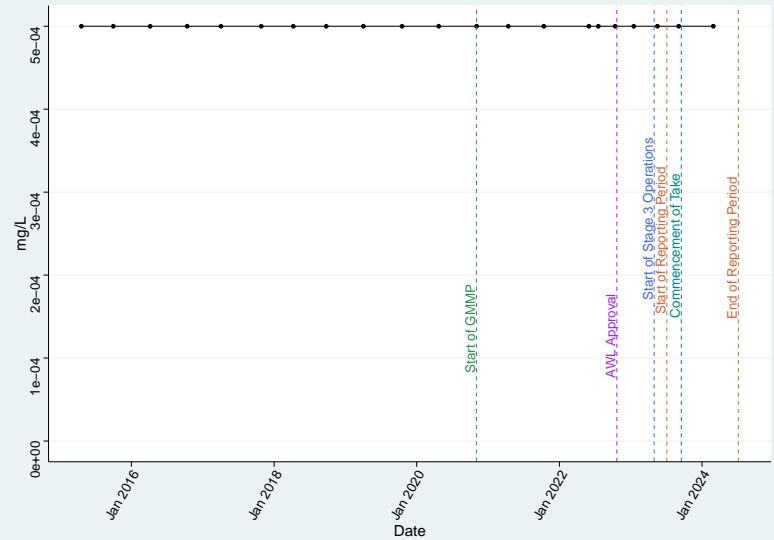
Bore 26PcR (Balgowan Coal Sequence) – Ammonia as N

Mann Kendall Trend Test | $\tau = 0.23$ | p-value = 0.414 | No trend



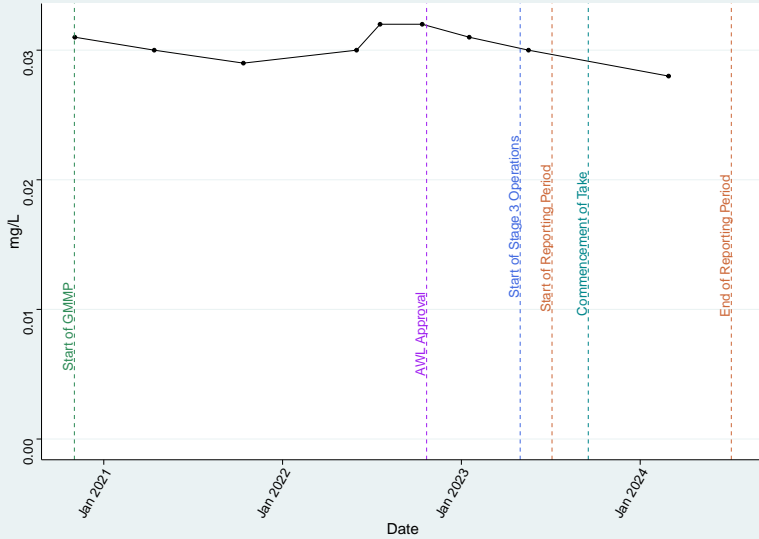
Bore 26PcR (Balgowan Coal Sequence) – As_diss

Mann Kendall Trend Test | $\tau = 1$ | p-value = 1 | No trend



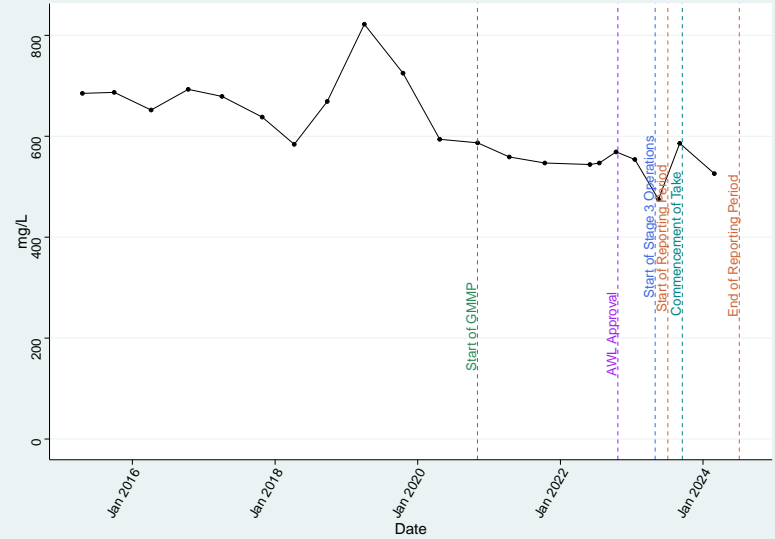
Bore 26PcR (Balgowan Coal Sequence) – Ba_diss

Mann Kendall Trend Test | $\tau = -0.15$ | p-value = 0.667 | No trend



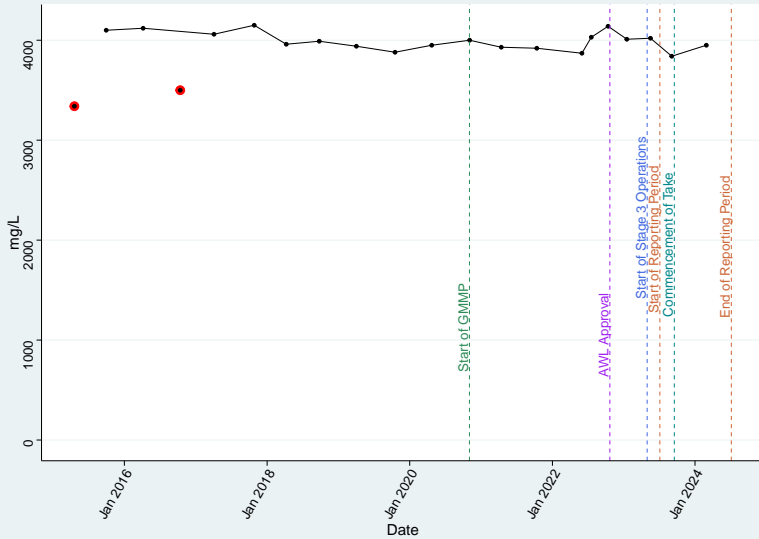
Bore 26PcR (Balgowan Coal Sequence) – Ca

Mann Kendall Trend Test | $\tau = -0.587$ | p-value = 0.000228 | Negative trend



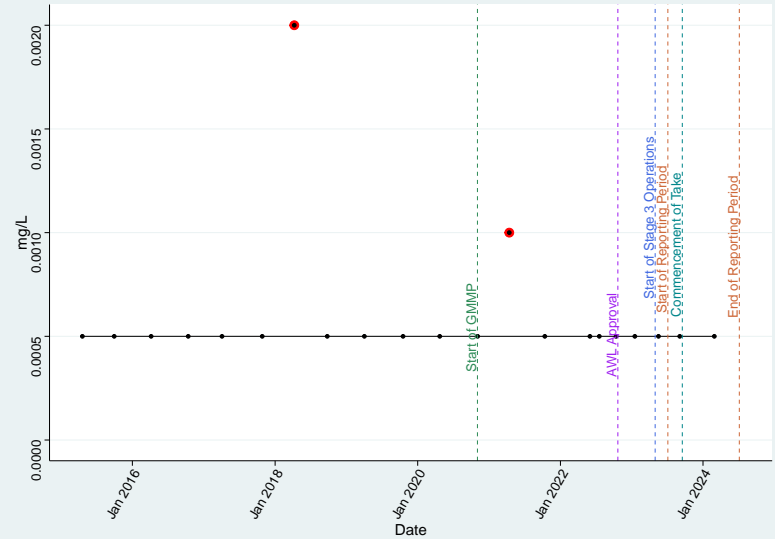
Bore 26PcR (Balgowan Coal Sequence) – Cl

Mann Kendall Trend Test | $\tau = -0.0621$ | p-value = 0.717 | No trend



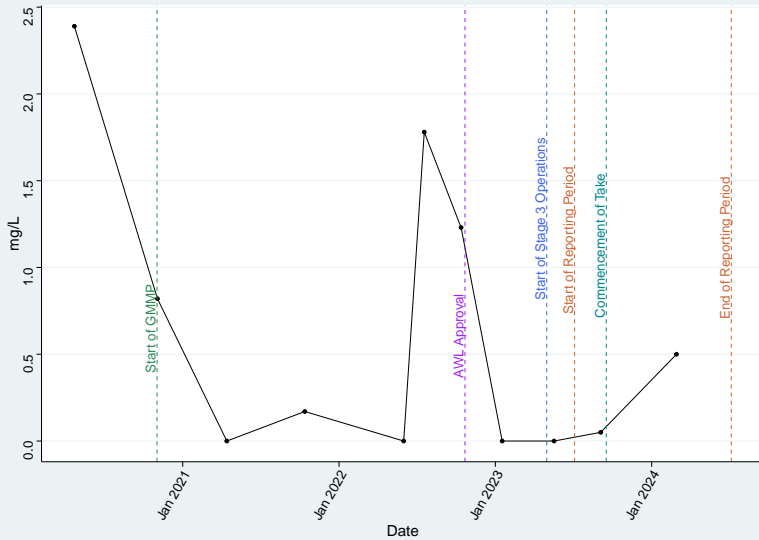
Bore 26PcR (Balgowan Coal Sequence) – Cu_diss

Mann Kendall Trend Test | $\tau = -0.0552$ | p-value = 0.811 | No trend



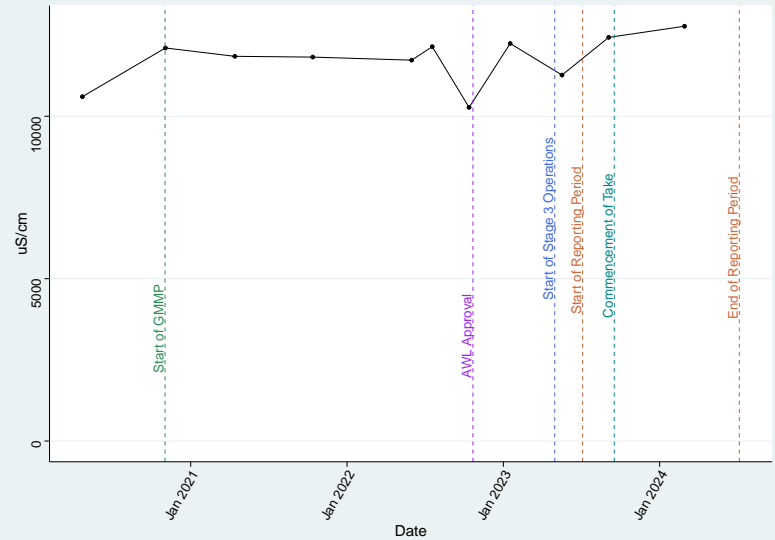
Bore 26PcR (Balgowan Coal Sequence) – DO_Field

Mann Kendall Trend Test | $\tau = -0.212$ | p-value = 0.424 | No trend



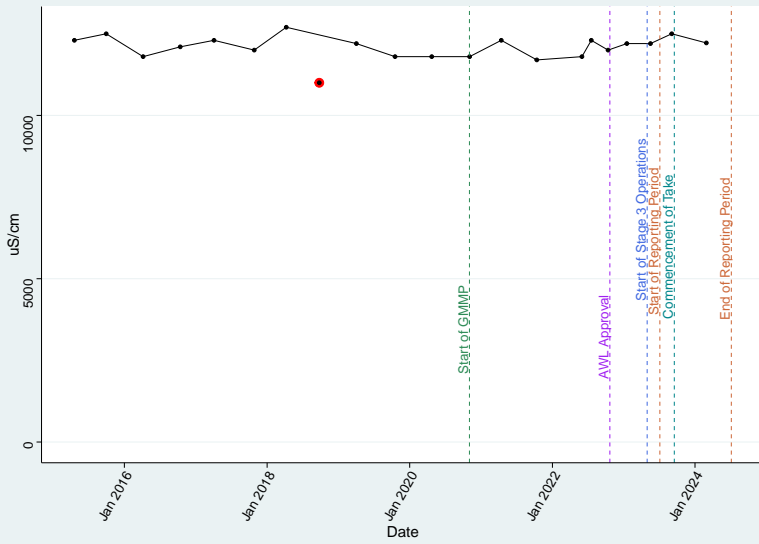
Bore 26PcR (Balgowan Coal Sequence) – EC_Field

Mann Kendall Trend Test | $\tau = 0.345$ | p-value = 0.161 | No trend



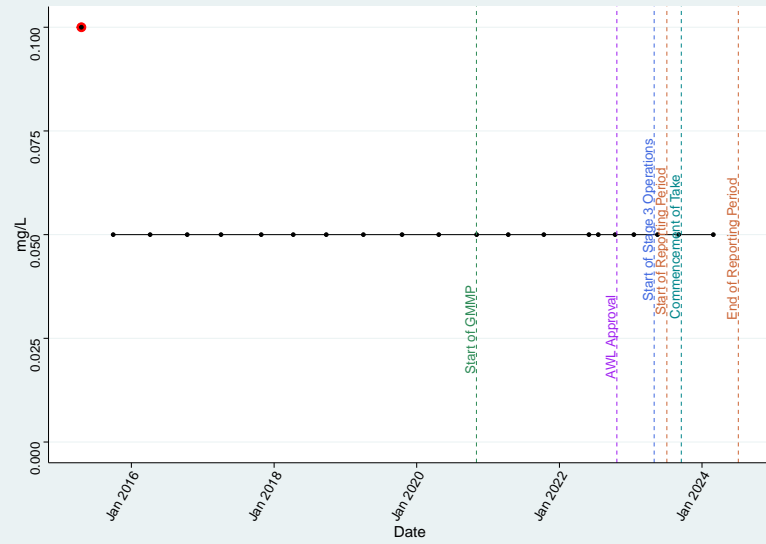
Bore 26PcR (Balgowan Coal Sequence) – EC_Lab

Mann Kendall Trend Test | $\tau = 0.0151$ | $p\text{-value} = 0.951$ | No trend



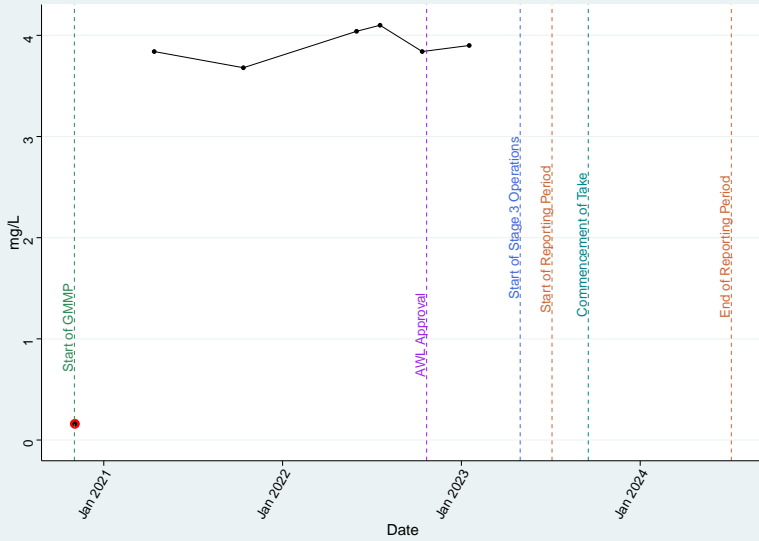
Bore 26PcR (Balgowan Coal Sequence) – F

Mann Kendall Trend Test | $\tau = -0.309$ | $p\text{-value} = 0.117$ | No trend



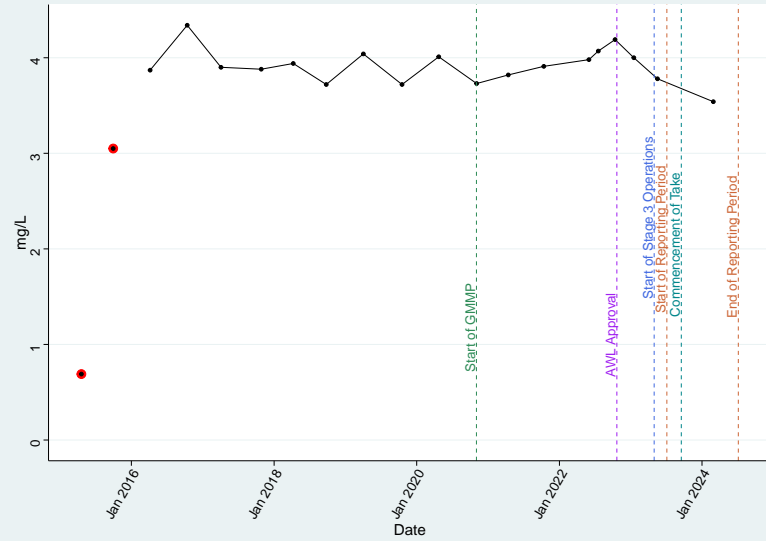
Bore 26PcR (Balgowan Coal Sequence) – Fe2

Mann Kendall Trend Test | $\tau = 0.488$ | $p\text{-value} = 0.172$ | No trend



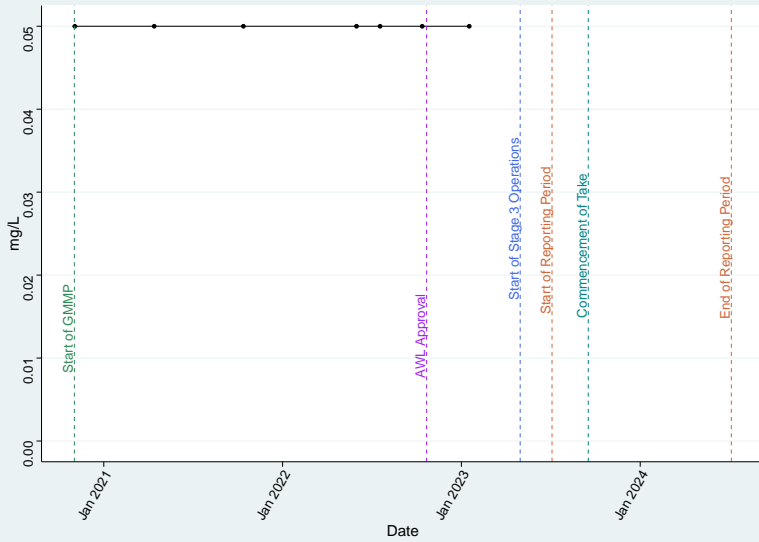
Bore 26PcR (Balgowan Coal Sequence) – Fe_diss

Mann Kendall Trend Test | $\tau = 0.195$ | $p\text{-value} = 0.243$ | No trend



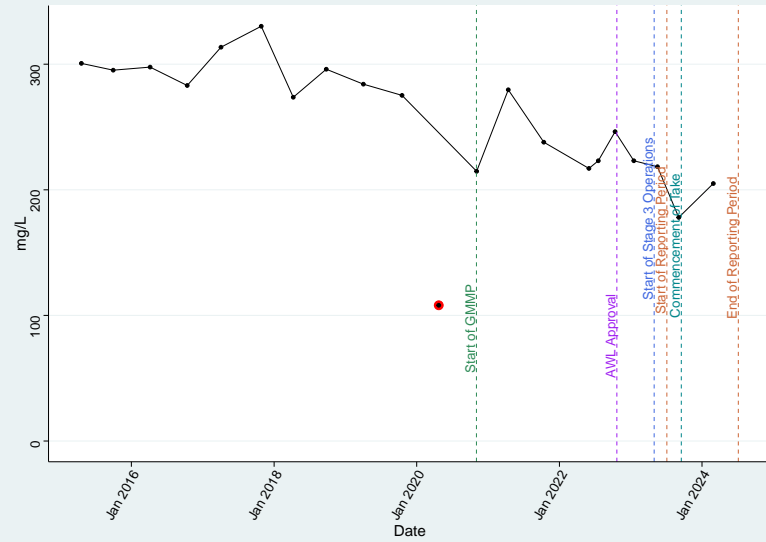
Bore 26PcR (Balgowan Coal Sequence) – H2S

Mann Kendall Trend Test | $\tau = 1$ | $p\text{-value} = 1$ | No trend



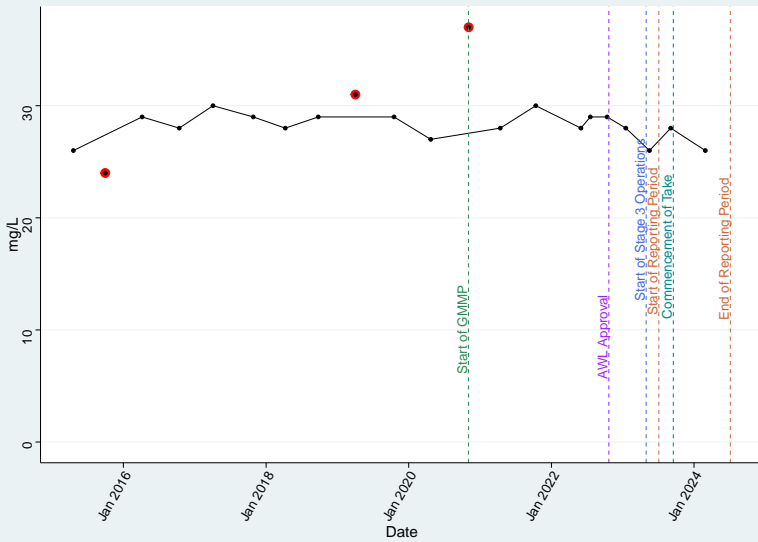
Bore 26PcR (Balgowan Coal Sequence) – HCO3

Mann Kendall Trend Test | $\tau = -0.597$ | $p\text{-value} = 0.00018$ | Negative trend



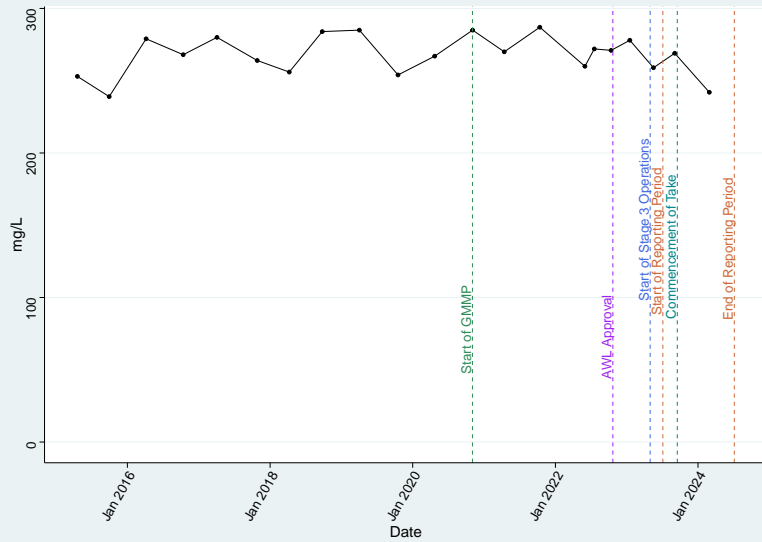
Bore 26PcR (Balgowan Coal Sequence) – K

Mann Kendall Trend Test | $\tau = -0.0728$ | $p\text{-value} = 0.686$ | No trend



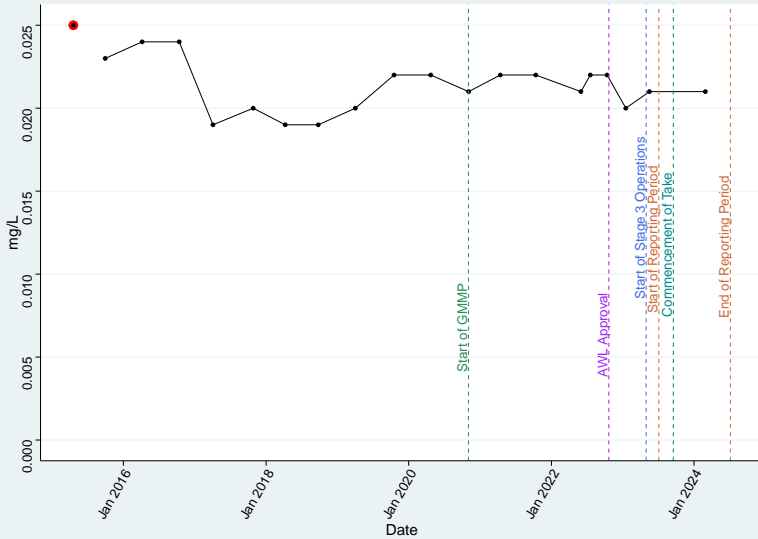
Bore 26PcR (Balgowan Coal Sequence) – Mg

Mann Kendall Trend Test | $\tau = 0.0621$ | $p\text{-value} = 0.717$ | No trend



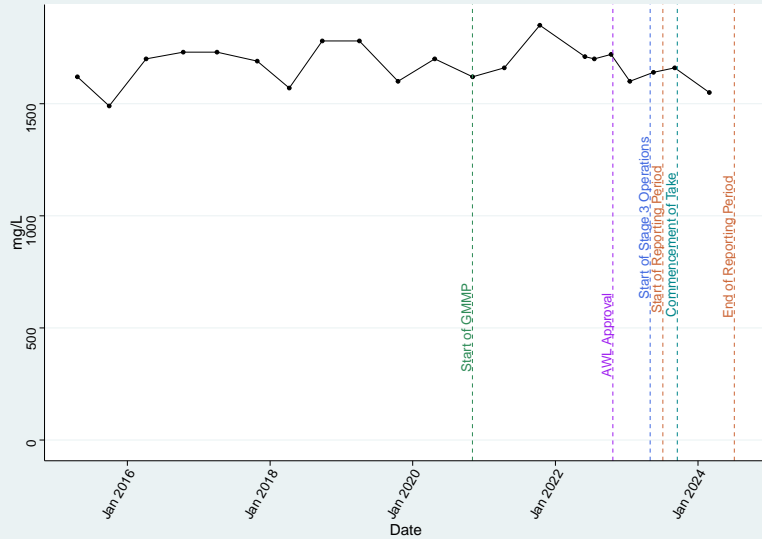
Bore 26PcR (Balgowan Coal Sequence) – Mn_diss

Mann Kendall Trend Test | $\tau = -0.16$ | $p\text{-value} = 0.369$ | No trend



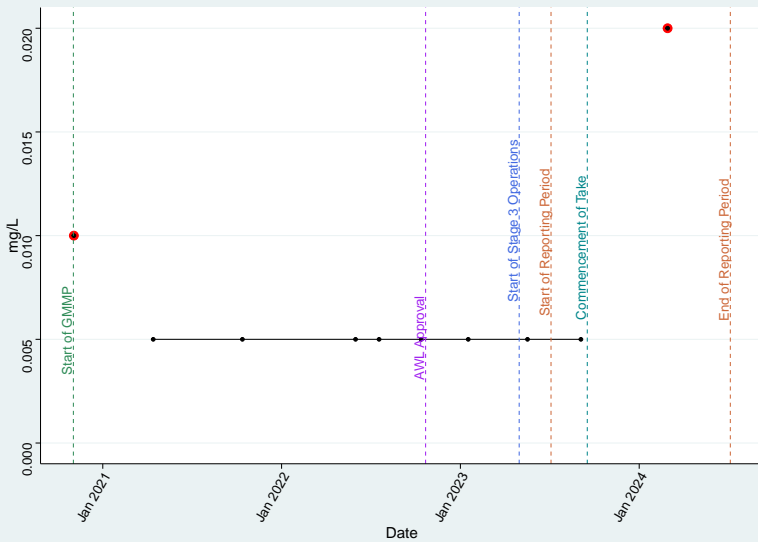
Bore 26PcR (Balgowan Coal Sequence) – Na

Mann Kendall Trend Test | $\tau = -0.0486$ | $p\text{-value} = 0.785$ | No trend



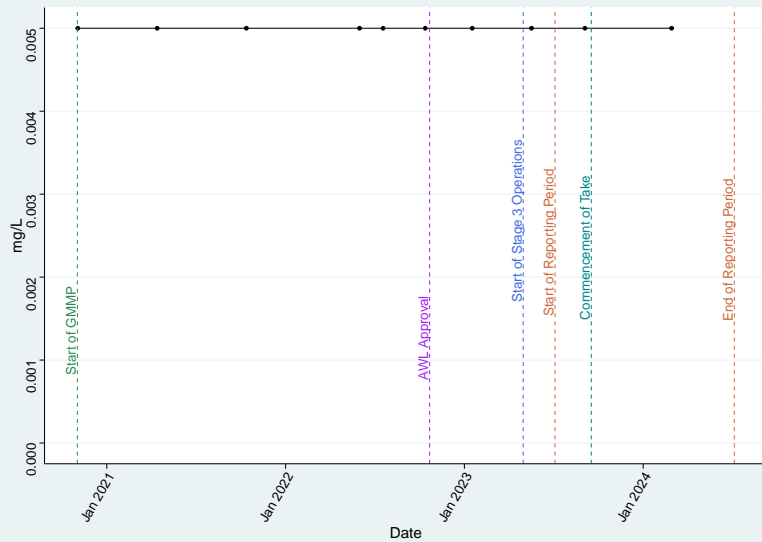
Bore 26PcR (Balgowan Coal Sequence) – Nitrate as N

Mann Kendall Trend Test | $\tau = 0.0362$ | $p\text{-value} = 1$ | No trend

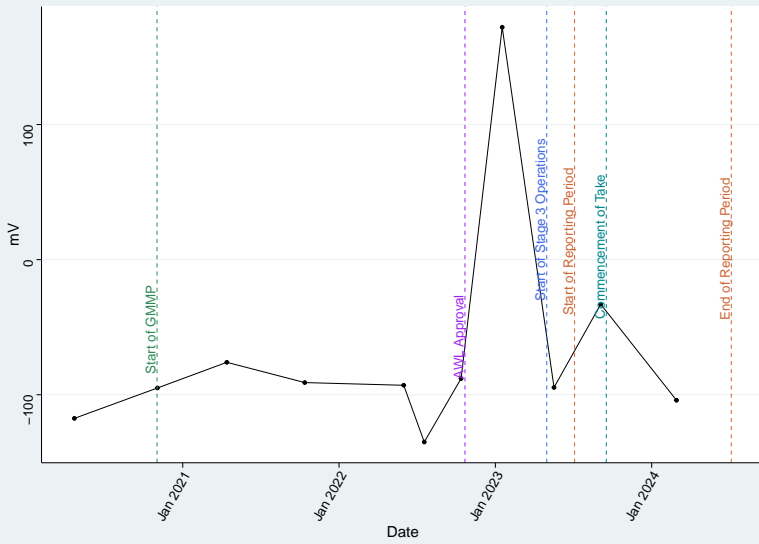


Bore 26PcR (Balgowan Coal Sequence) – Nitrite as N

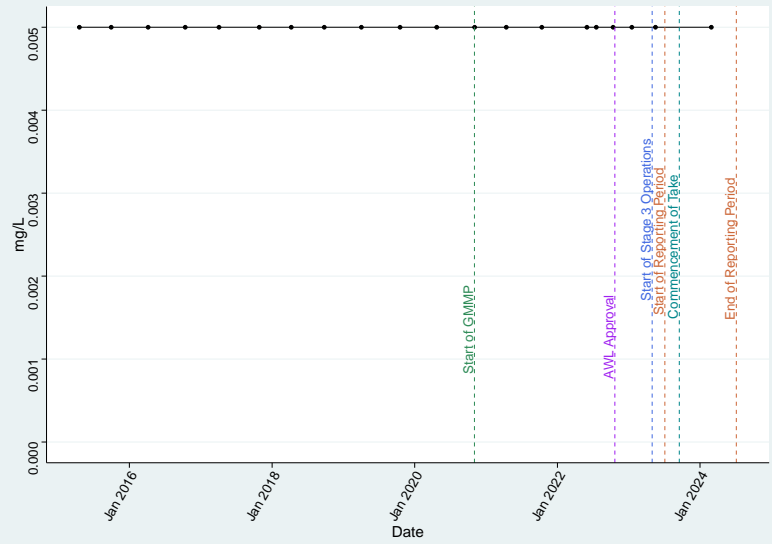
Mann Kendall Trend Test | $\tau = 1$ | $p\text{-value} = 1$ | No trend



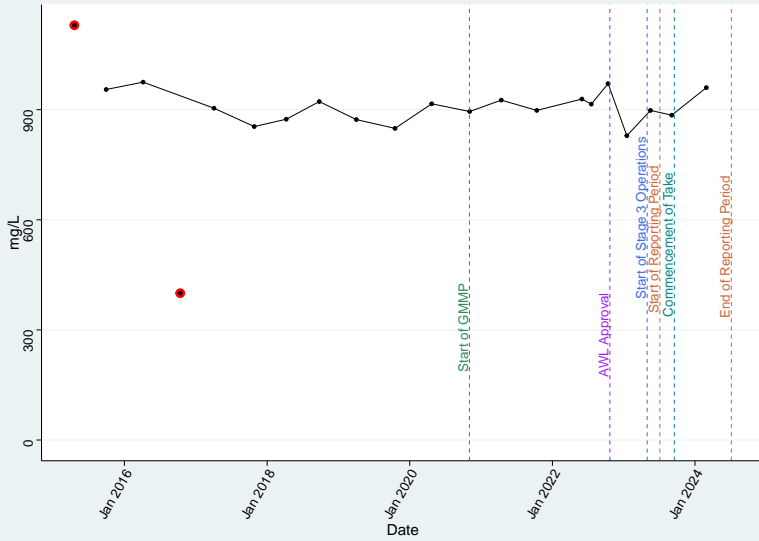
Bore 26PcR (Balgowan Coal Sequence) – Redox_Field
 Mann Kendall Trend Test | $\tau = 0.164$ | $p\text{-value} = 0.533$ | No trend



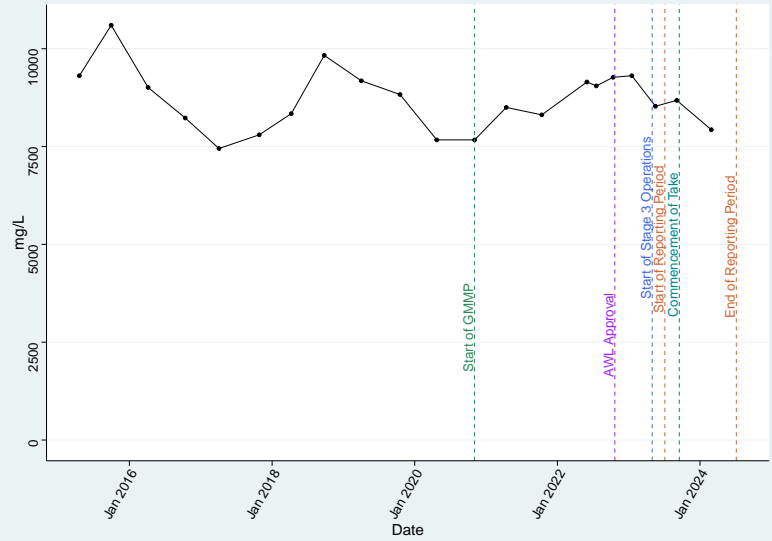
Bore 26PcR (Balgowan Coal Sequence) – Se_diss
 Mann Kendall Trend Test | $\tau = 1$ | $p\text{-value} = 1$ | No trend



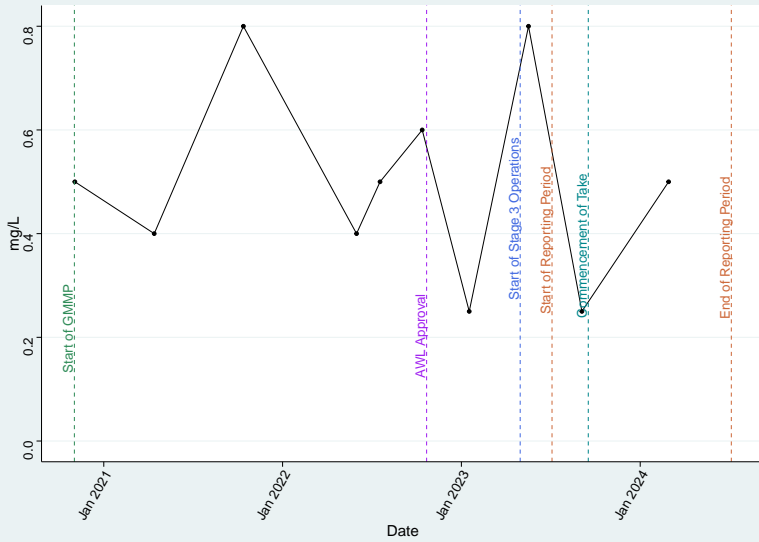
Bore 26PcR (Balgowan Coal Sequence) – SO4
 Mann Kendall Trend Test | $\tau = -0.0239$ | $p\text{-value} = 0.904$ | No trend



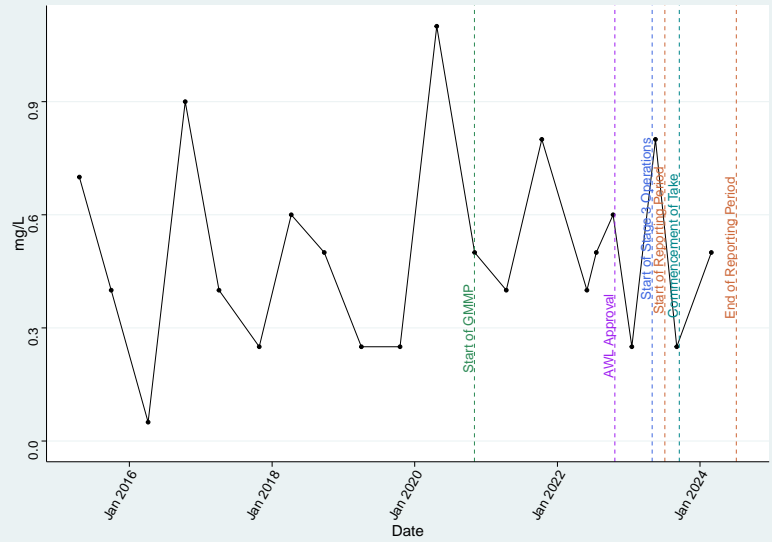
Bore 26PcR (Balgowan Coal Sequence) – TDS
 Mann Kendall Trend Test | $\tau = -0.0287$ | $p\text{-value} = 0.88$ | No trend



Bore 26PcR (Balgowan Coal Sequence) – TKN
 Mann Kendall Trend Test | $\tau = -0.0716$ | $p\text{-value} = 0.854$ | No trend

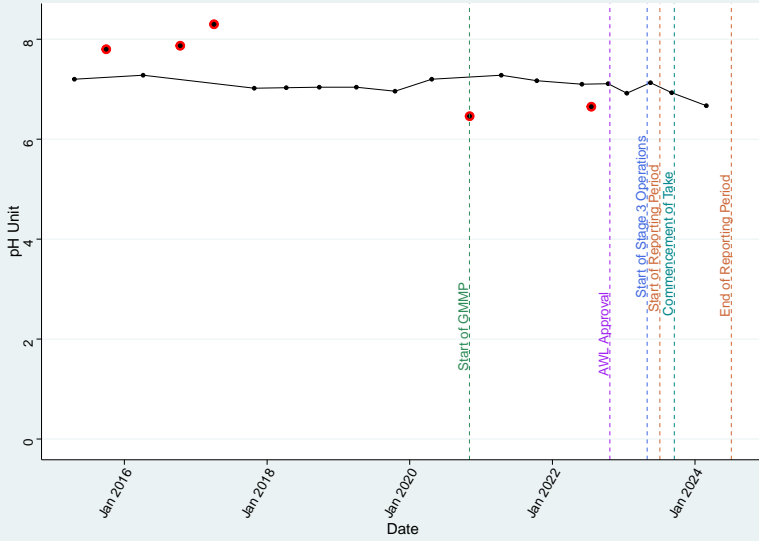


Bore 26PcR (Balgowan Coal Sequence) – Total_N
 Mann Kendall Trend Test | $\tau = 0.0304$ | $p\text{-value} = 0.878$ | No trend



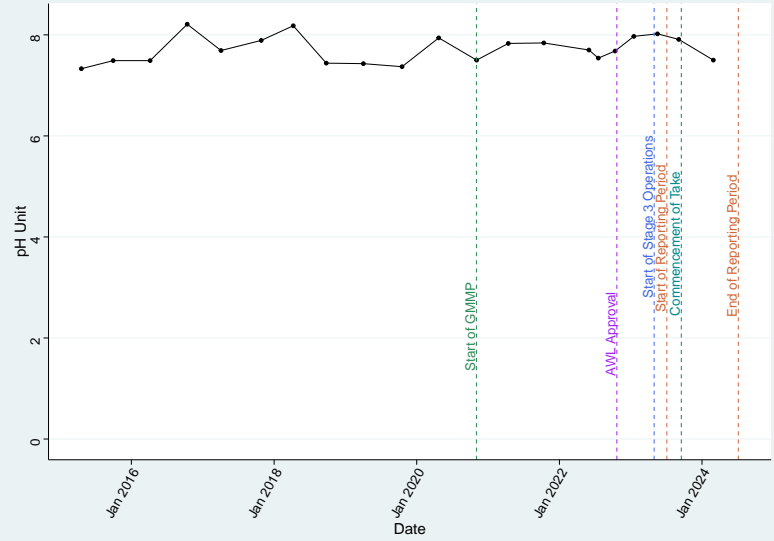
Bore 26PcR (Balgowan Coal Sequence) – pH_Field

Mann Kendall Trend Test | $\tau = -0.369$ | $p\text{-value} = 0.0216$ | Negative trend



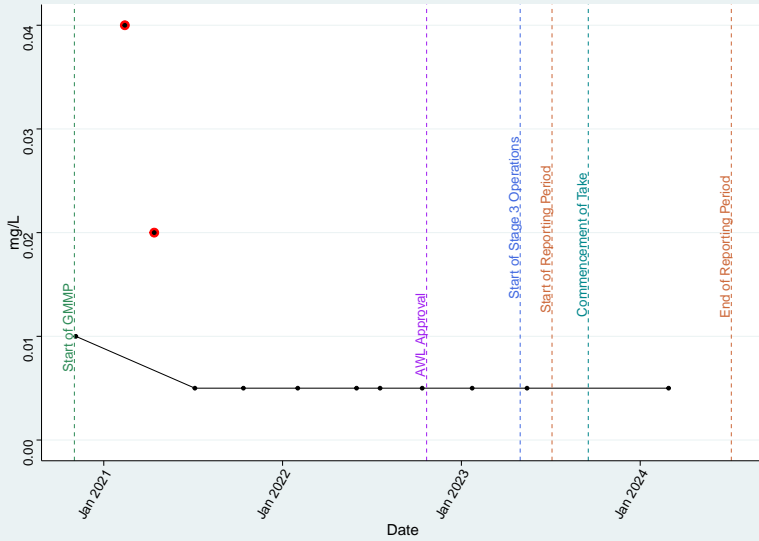
Bore 26PcR (Balgowan Coal Sequence) – pH_Lab

Mann Kendall Trend Test | $\tau = 0.201$ | $p\text{-value} = 0.215$ | No trend



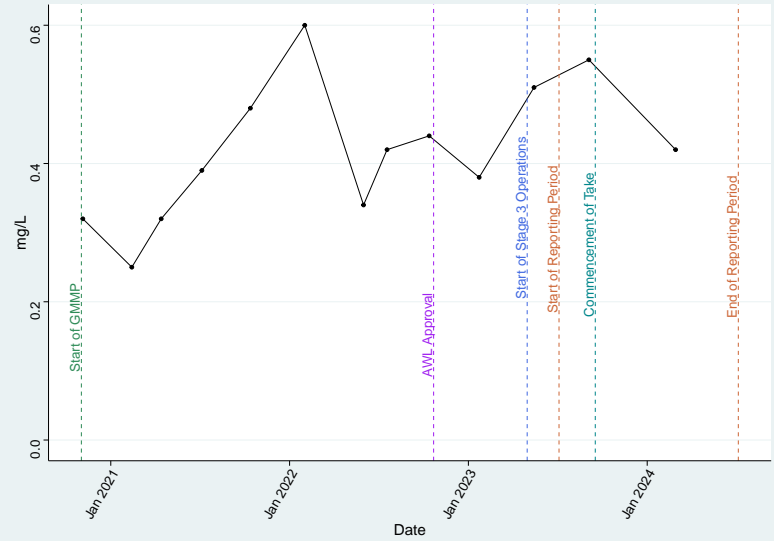
Bore 27PcR (Balgowan Coal Sequence) – Al_diss

Mann Kendall Trend Test | $\tau = -0.584$ | $p\text{-value} = 0.0229$ | Negative trend



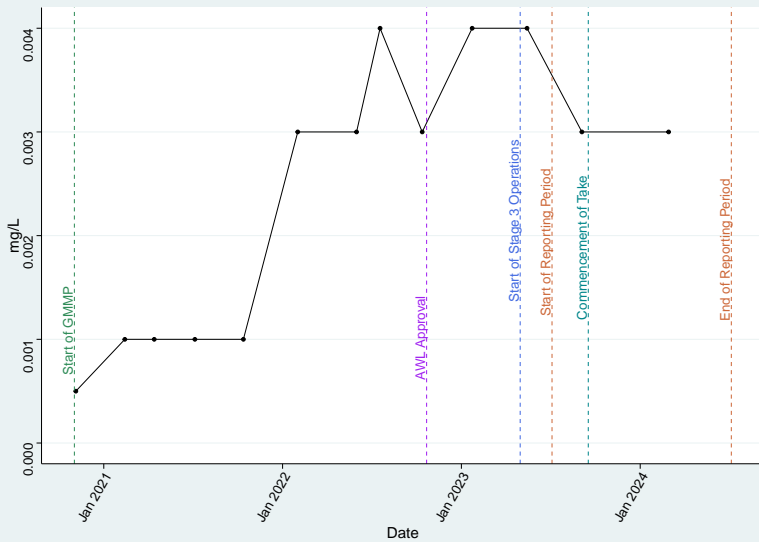
Bore 27PcR (Balgowan Coal Sequence) – Ammonia as N

Mann Kendall Trend Test | $\tau = 0.468$ | $p\text{-value} = 0.0321$ | Positive trend



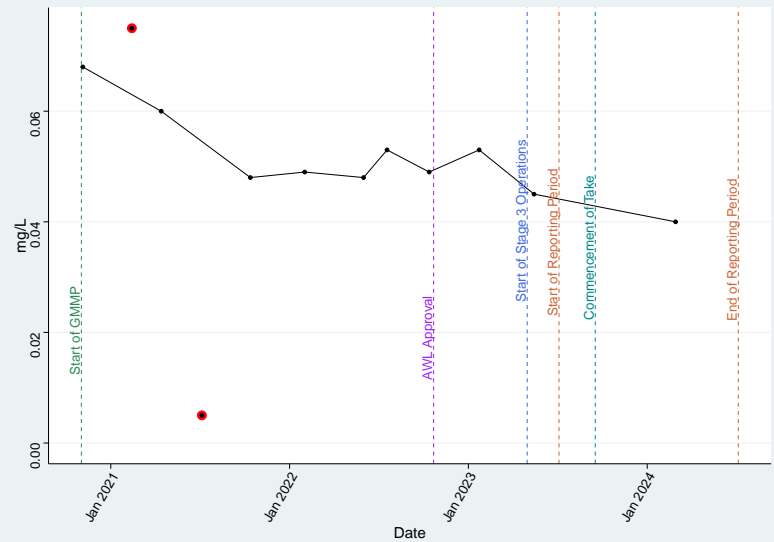
Bore 27PcR (Balgowan Coal Sequence) – As_diss

Mann Kendall Trend Test | $\tau = 0.663$ | $p\text{-value} = 0.00448$ | Positive trend



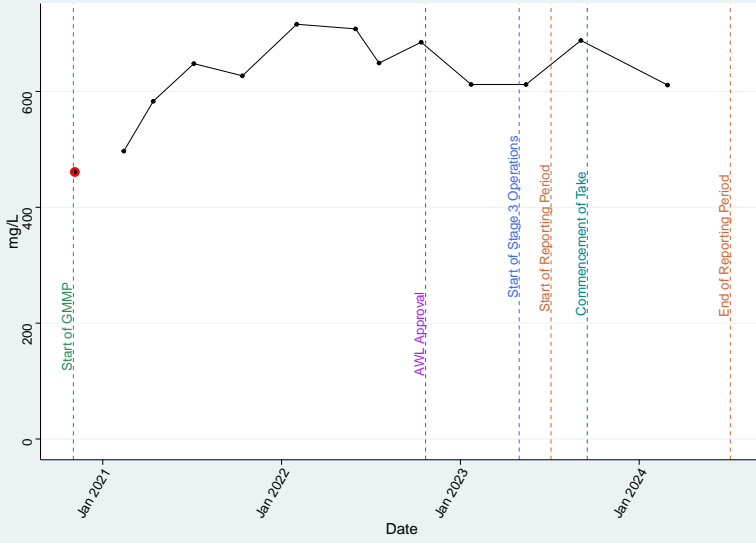
Bore 27PcR (Balgowan Coal Sequence) – Ba_diss

Mann Kendall Trend Test | $\tau = -0.388$ | $p\text{-value} = 0.0974$ | No trend



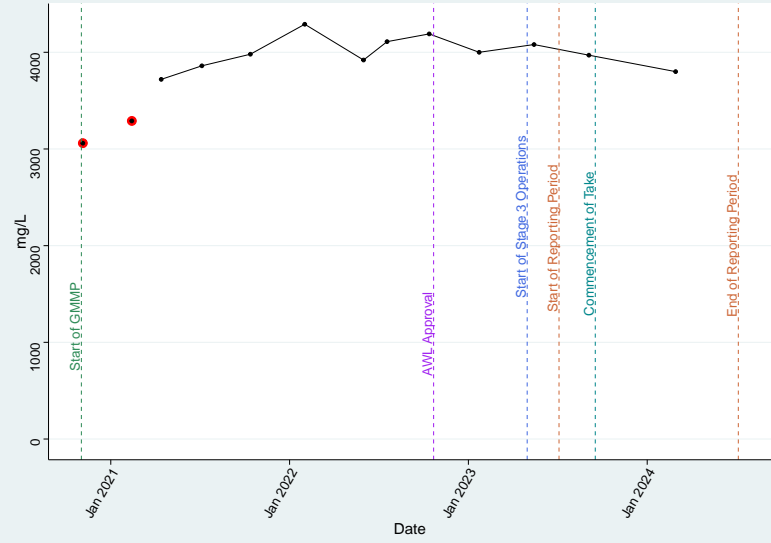
Bore 27PcR (Balgowan Coal Sequence) – Ca

Mann Kendall Trend Test | $\tau = 0.245$ | $p\text{-value} = 0.271$ | No trend



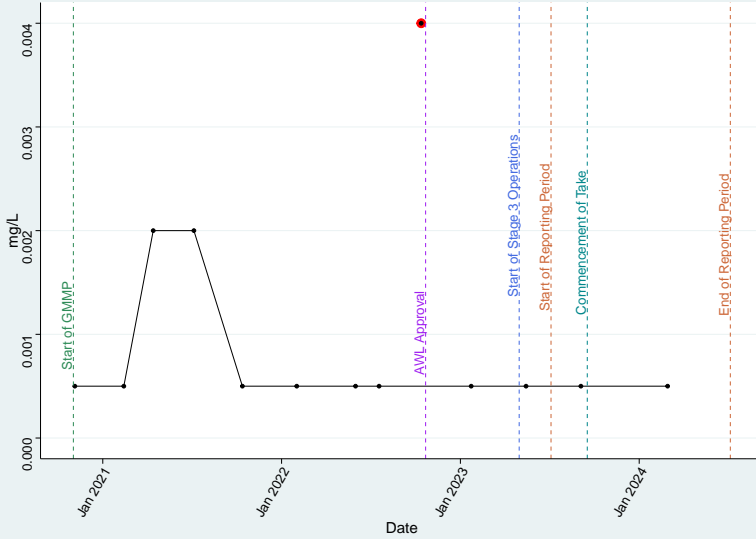
Bore 27PcR (Balgowan Coal Sequence) – Cl

Mann Kendall Trend Test | $\tau = 0.359$ | $p\text{-value} = 0.0995$ | No trend



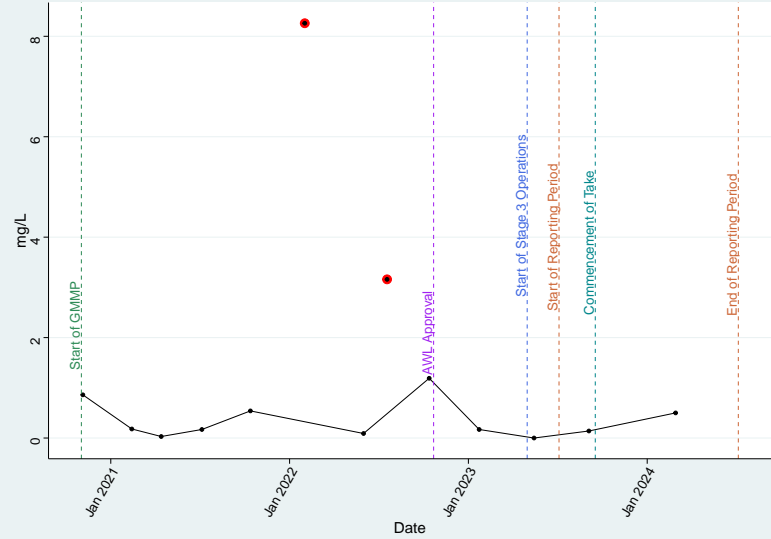
Bore 27PcR (Balgowan Coal Sequence) – Cu_diss

Mann Kendall Trend Test | $\tau = -0.16$ | $p\text{-value} = 0.558$ | No trend



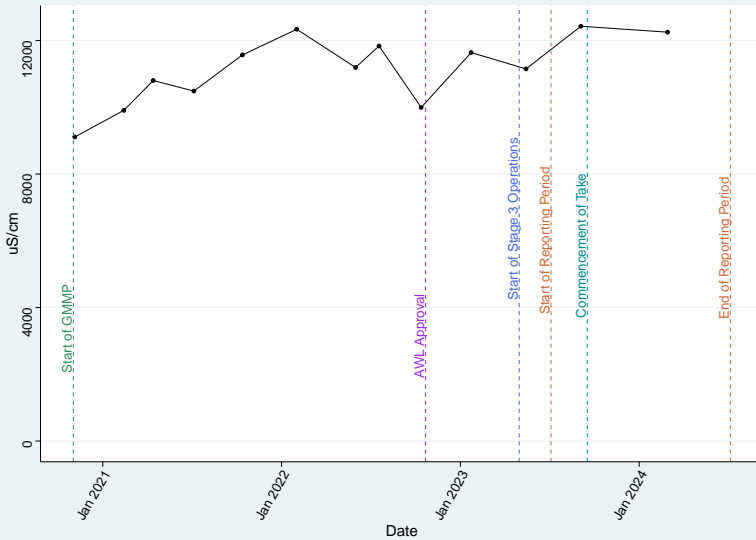
Bore 27PcR (Balgowan Coal Sequence) – DO_Field

Mann Kendall Trend Test | $\tau = -0.116$ | $p\text{-value} = 0.625$ | No trend



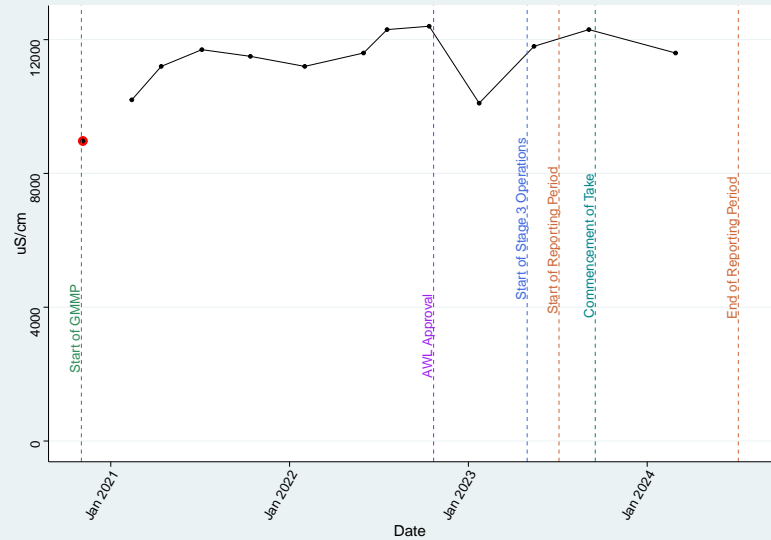
Bore 27PcR (Balgowan Coal Sequence) – EC_Field

Mann Kendall Trend Test | $\tau = 0.513$ | $p\text{-value} = 0.0173$ | Positive trend



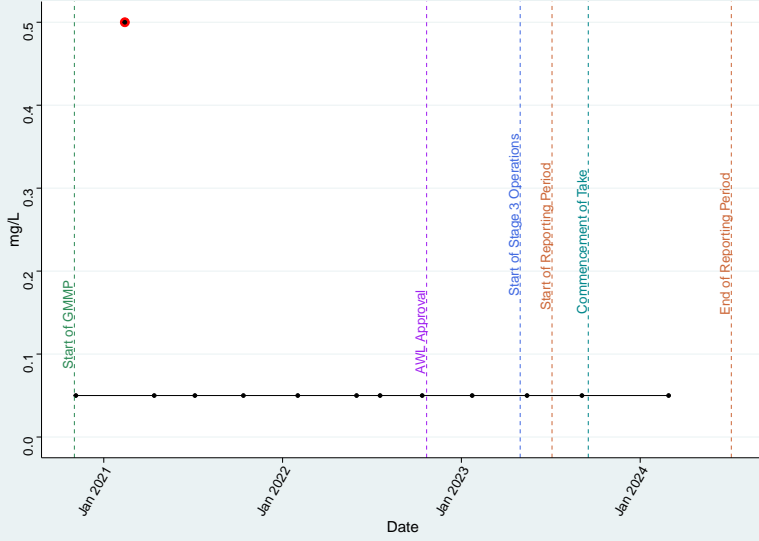
Bore 27PcR (Balgowan Coal Sequence) – EC_Lab

Mann Kendall Trend Test | $\tau = 0.458$ | $p\text{-value} = 0.037$ | Positive trend



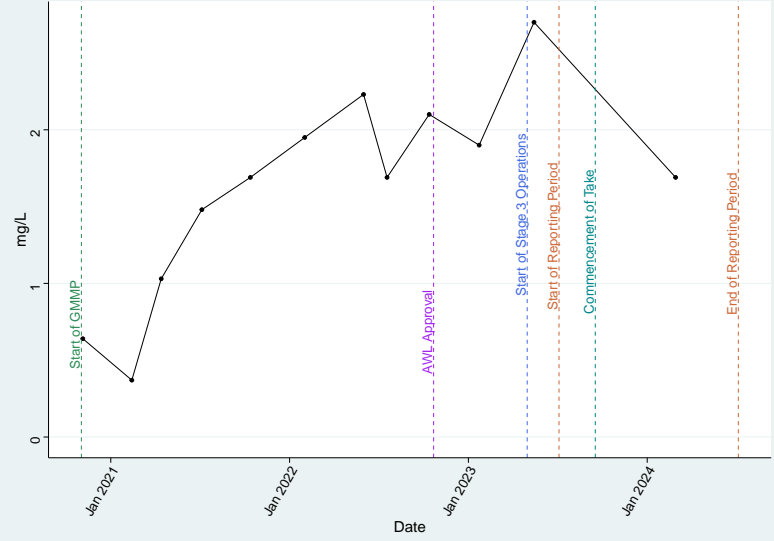
Bore 27PcR (Balgowan Coal Sequence) – F

Mann Kendall Trend Test | $\tau = -0.327$ | $p\text{-value} = 0.229$ | No trend



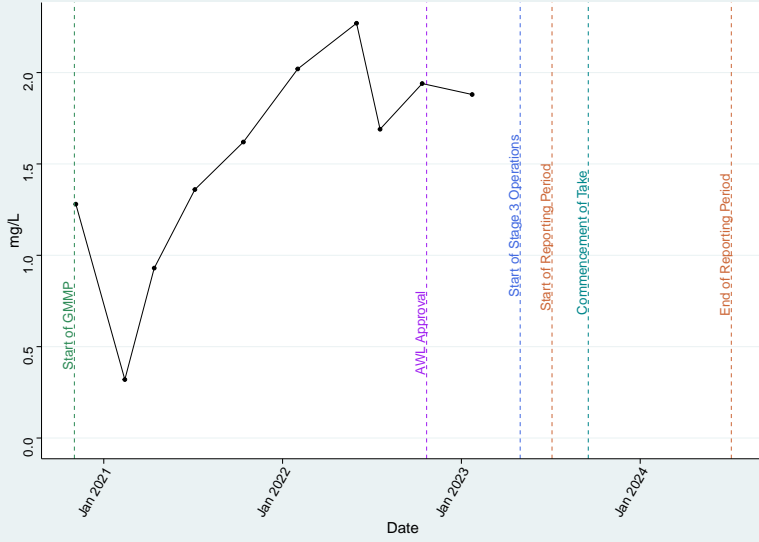
Bore 27PcR (Balgowan Coal Sequence) – Fe_diss

Mann Kendall Trend Test | $\tau = 0.605$ | $p\text{-value} = 0.00858$ | Positive trend



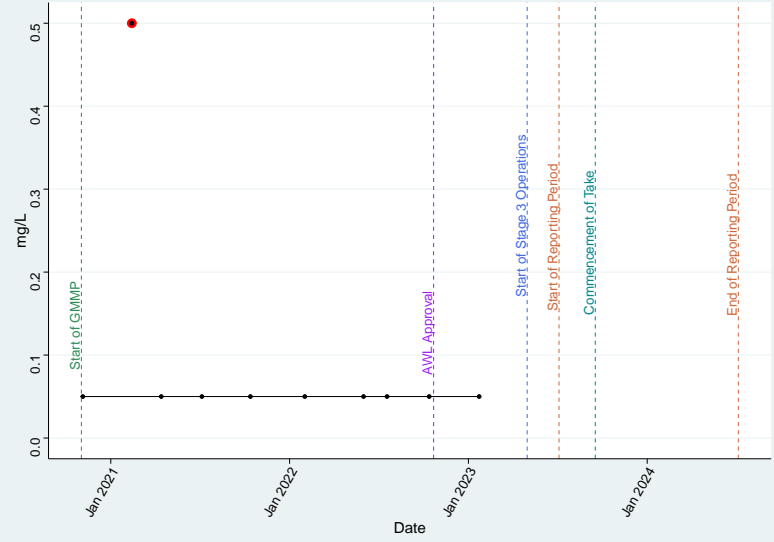
Bore 27PcR (Balgowan Coal Sequence) – Fe2

Mann Kendall Trend Test | $\tau = 0.6$ | $p\text{-value} = 0.02$ | Positive trend



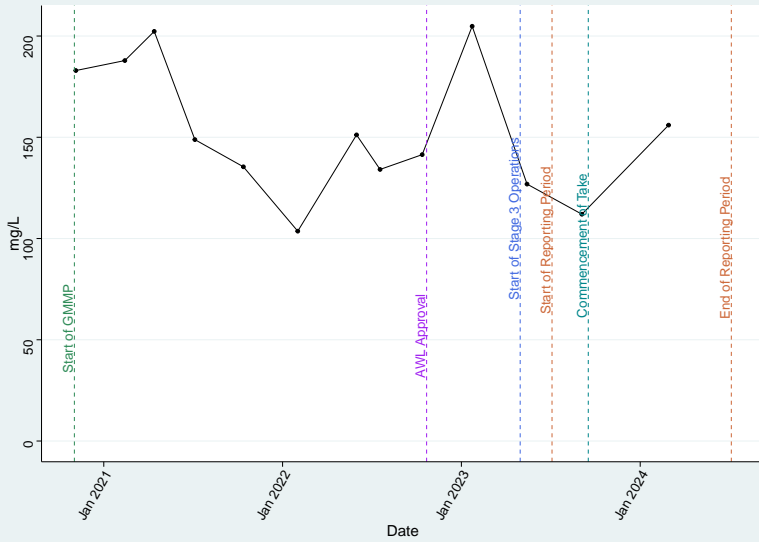
Bore 27PcR (Balgowan Coal Sequence) – H2S

Mann Kendall Trend Test | $\tau = -0.348$ | $p\text{-value} = 0.296$ | No trend



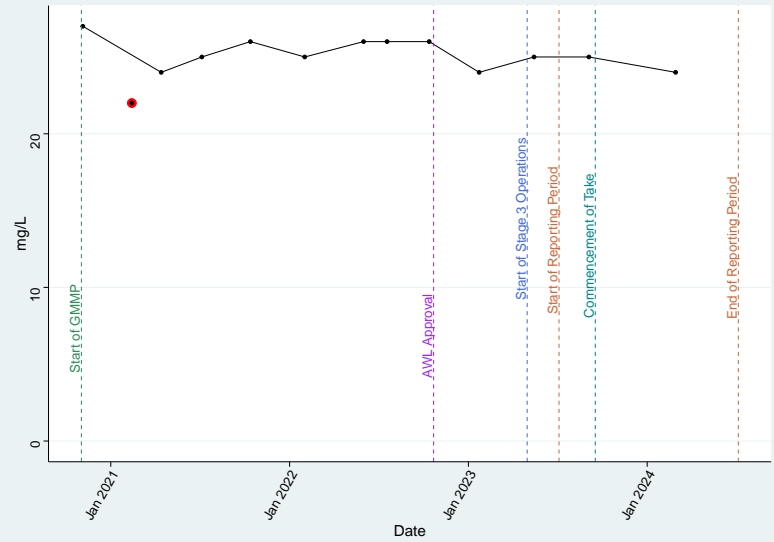
Bore 27PcR (Balgowan Coal Sequence) – HCO3

Mann Kendall Trend Test | $\tau = -0.256$ | $p\text{-value} = 0.246$ | No trend



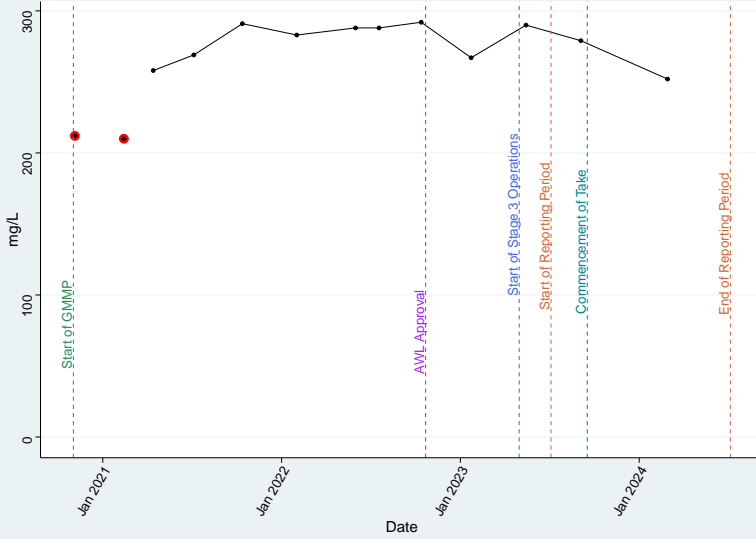
Bore 27PcR (Balgowan Coal Sequence) – K

Mann Kendall Trend Test | $\tau = -0.0999$ | $p\text{-value} = 0.703$ | No trend



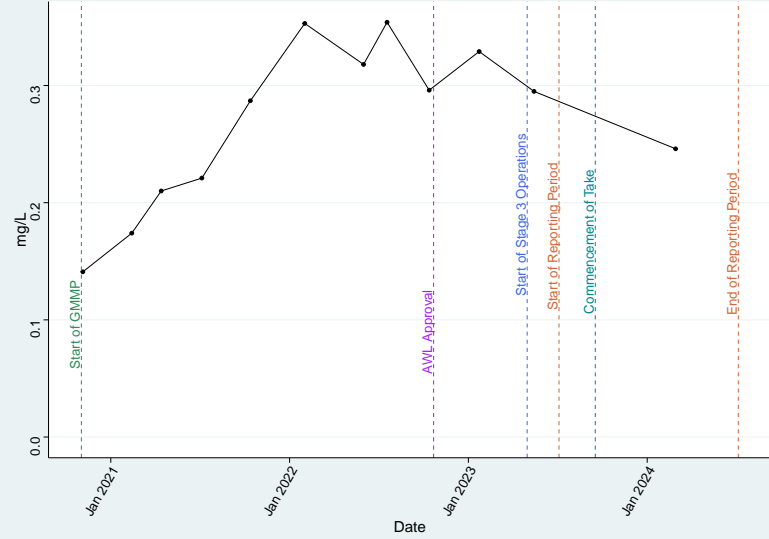
Bore 27PcR (Balgowan Coal Sequence) – Mg

Mann Kendall Trend Test | $\tau = 0.271$ | p -value = 0.222 | No trend



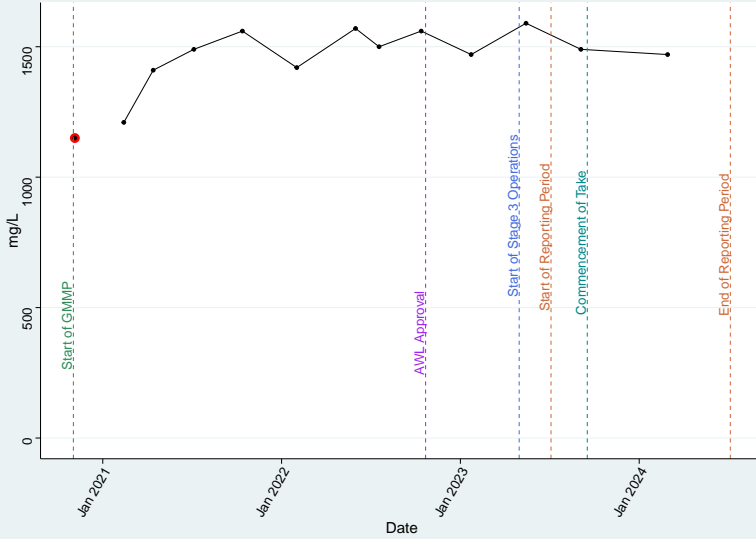
Bore 27PcR (Balgowan Coal Sequence) – Mn_diss

Mann Kendall Trend Test | $\tau = 0.455$ | p -value = 0.0467 | Positive trend



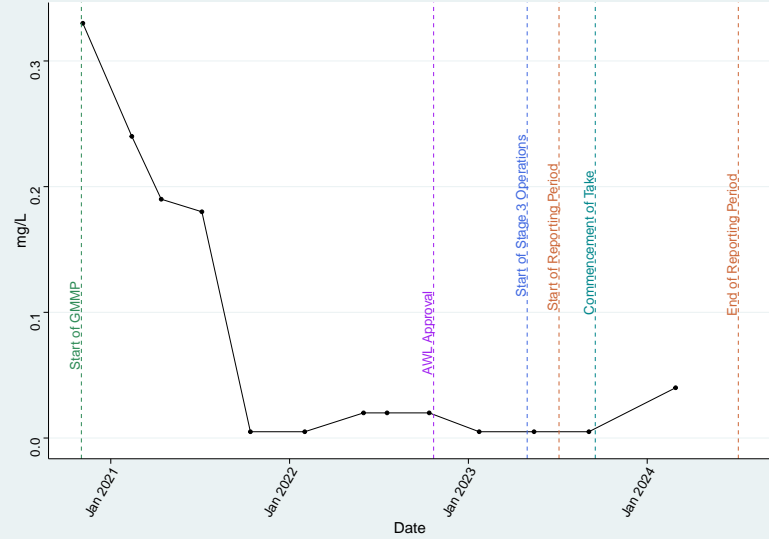
Bore 27PcR (Balgowan Coal Sequence) – Na

Mann Kendall Trend Test | $\tau = 0.405$ | p -value = 0.0657 | No trend



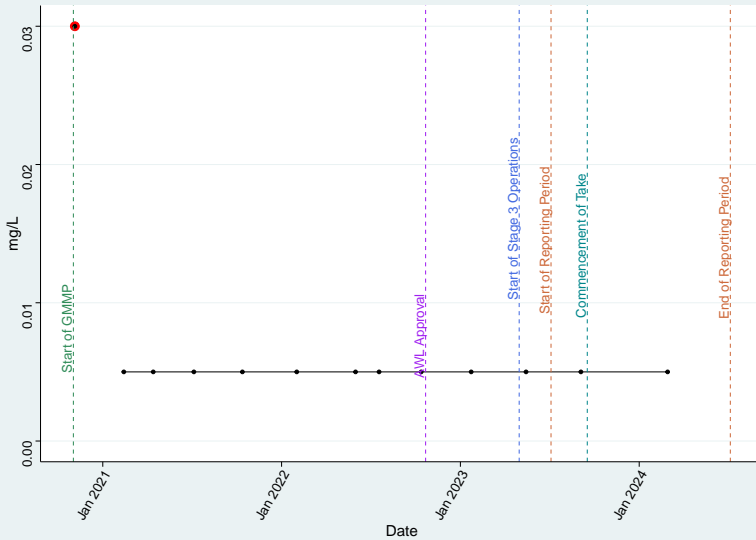
Bore 27PcR (Balgowan Coal Sequence) – Nitrate as N

Mann Kendall Trend Test | $\tau = -0.52$ | p -value = 0.0223 | Negative trend



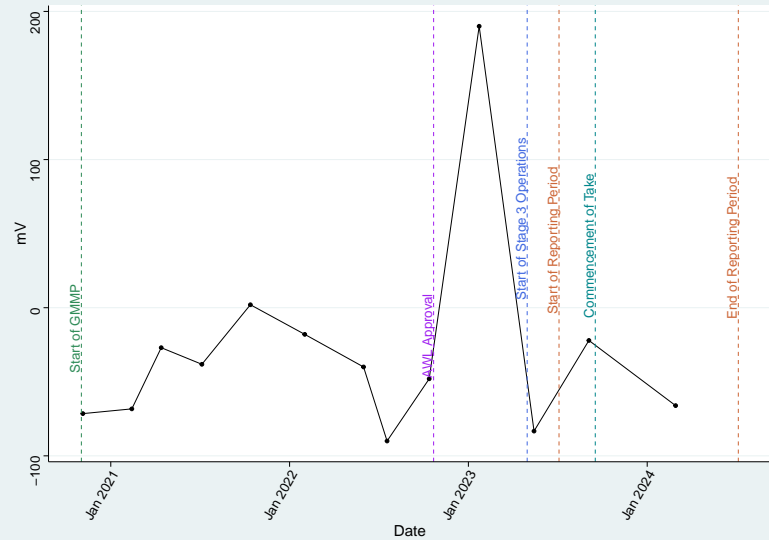
Bore 27PcR (Balgowan Coal Sequence) – Nitrite as N

Mann Kendall Trend Test | $\tau = -0.392$ | p -value = 0.142 | No trend



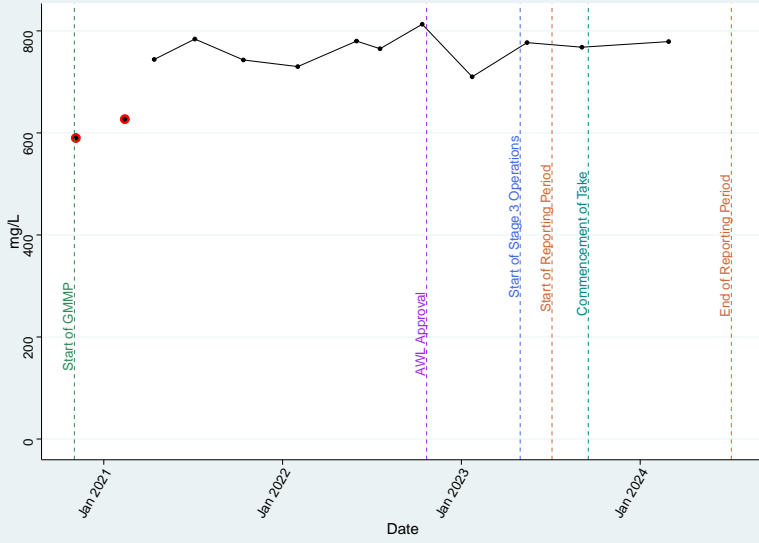
Bore 27PcR (Balgowan Coal Sequence) – Redox_Field

Mann Kendall Trend Test | $\tau = 0.0256$ | p -value = 0.951 | No trend



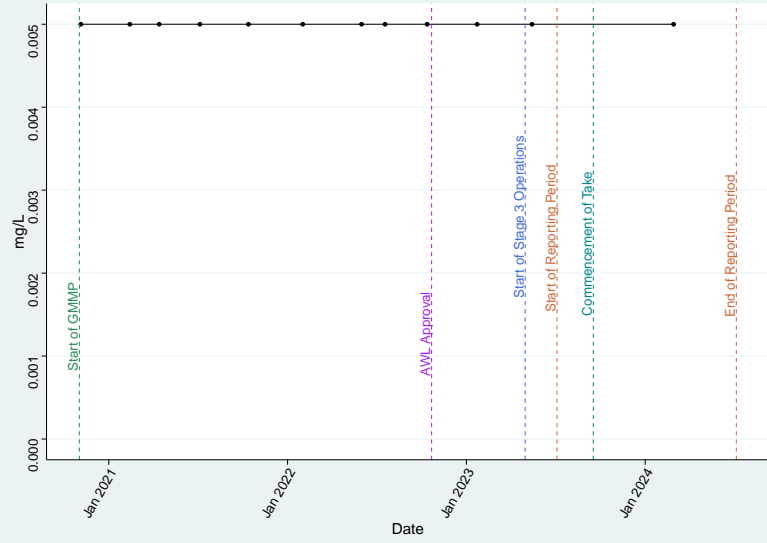
Bore 27PcR (Balgowan Coal Sequence) – SO4

Mann Kendall Trend Test | $\tau = 0.359$ | $p\text{-value} = 0.0995$ | No trend



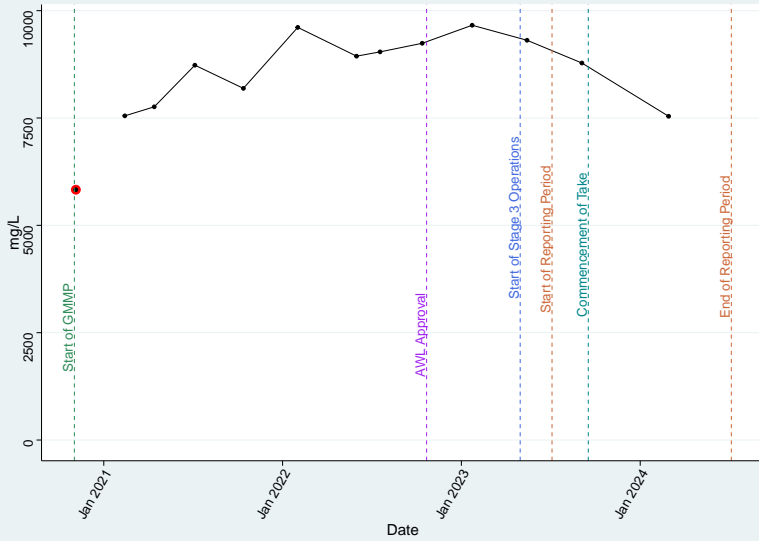
Bore 27PcR (Balgowan Coal Sequence) – Se_diss

Mann Kendall Trend Test | $\tau = 1$ | $p\text{-value} = 1$ | No trend



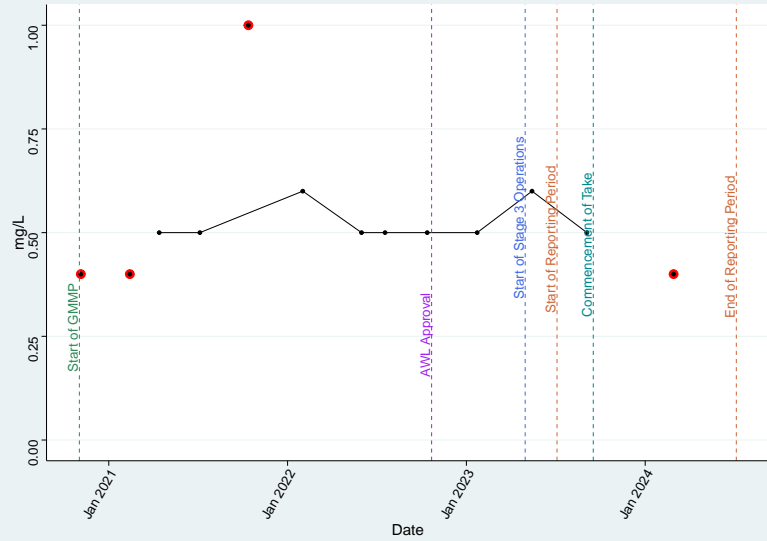
Bore 27PcR (Balgowan Coal Sequence) – TDS

Mann Kendall Trend Test | $\tau = 0.41$ | $p\text{-value} = 0.0586$ | No trend



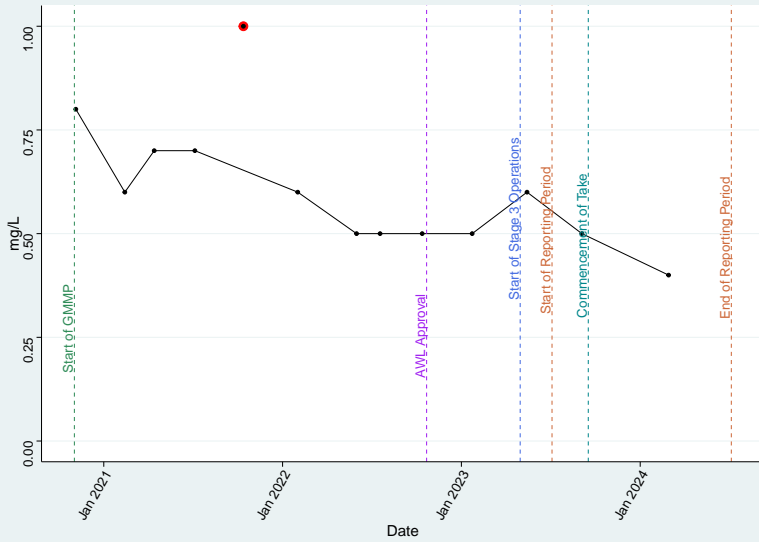
Bore 27PcR (Balgowan Coal Sequence) – TKN

Mann Kendall Trend Test | $\tau = 0.109$ | $p\text{-value} = 0.686$ | No trend



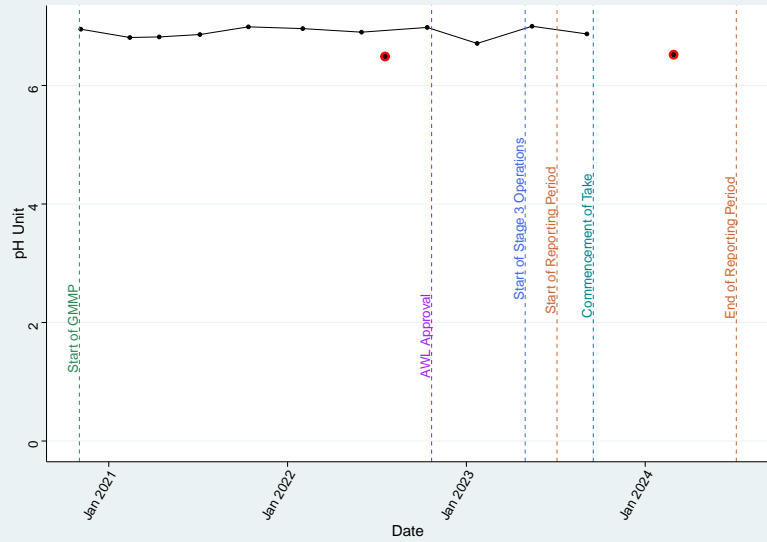
Bore 27PcR (Balgowan Coal Sequence) – Total_N

Mann Kendall Trend Test | $\tau = -0.623$ | $p\text{-value} = 0.00625$ | Negative trend



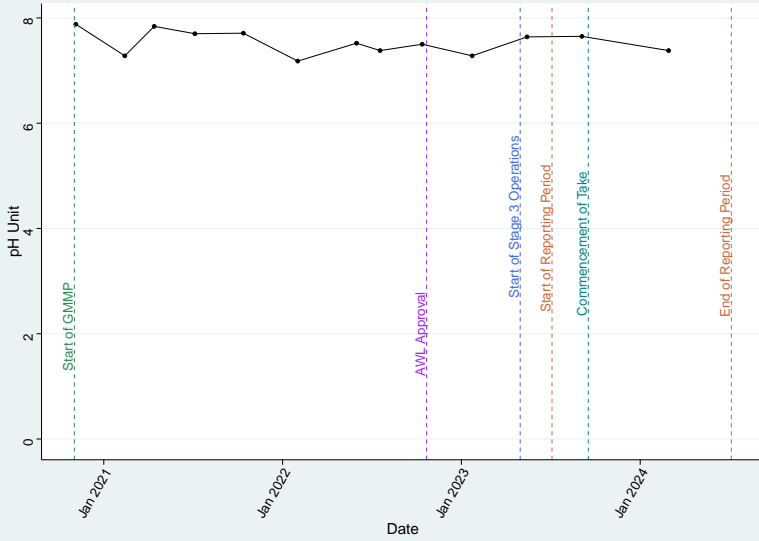
Bore 27PcR (Balgowan Coal Sequence) – pH_Field

Mann Kendall Trend Test | $\tau = -0.0256$ | $p\text{-value} = 0.951$ | No trend



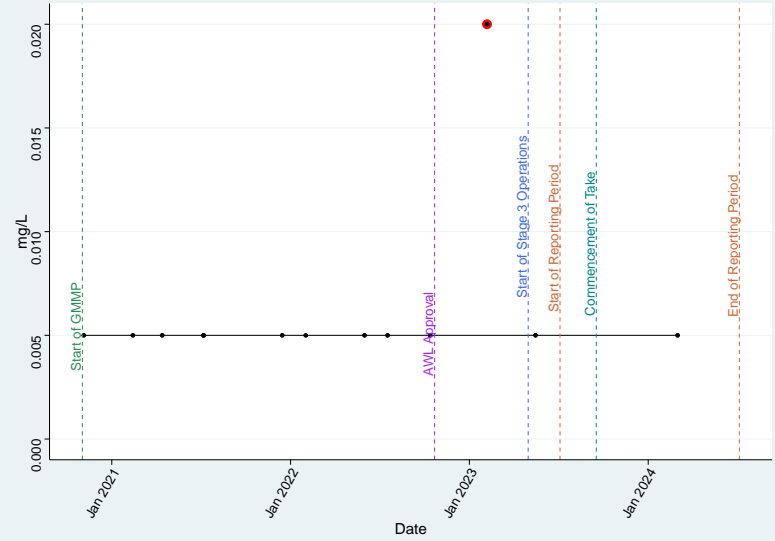
Bore 27PcR (Balgowan Coal Sequence) – pH_Lab

Mann Kendall Trend Test | $\tau = -0.26$ | $p\text{-value} = 0.245$ | No trend



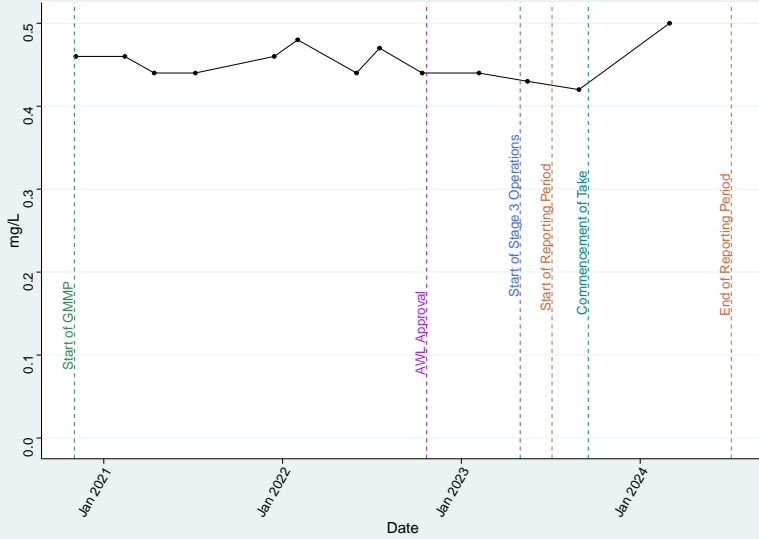
Bore 28PcR (Balgowan Coal Sequence) – Al_diss

Mann Kendall Trend Test | $\tau = 0.261$ | $p\text{-value} = 0.35$ | No trend



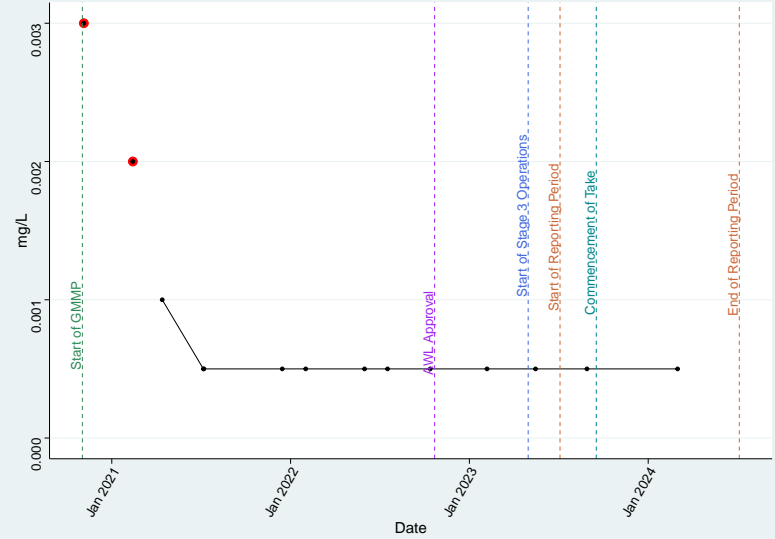
Bore 28PcR (Balgowan Coal Sequence) – Ammonia as N

Mann Kendall Trend Test | $\tau = -0.211$ | $p\text{-value} = 0.374$ | No trend



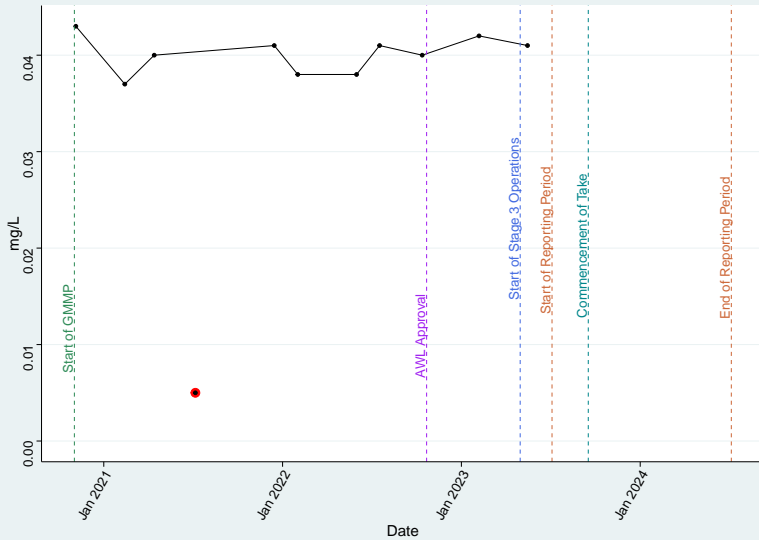
Bore 28PcR (Balgowan Coal Sequence) – As_diss

Mann Kendall Trend Test | $\tau = -0.629$ | $p\text{-value} = 0.00704$ | Negative trend



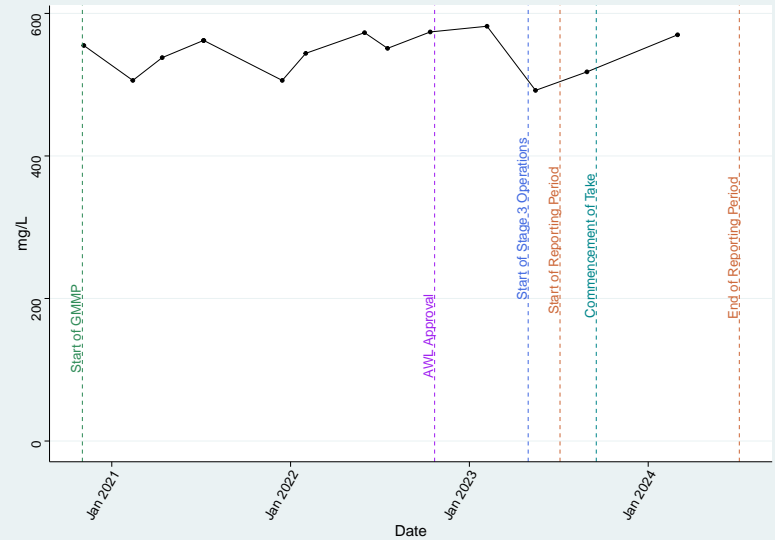
Bore 28PcR (Balgowan Coal Sequence) – Ba_diss

Mann Kendall Trend Test | $\tau = 0.229$ | $p\text{-value} = 0.384$ | No trend



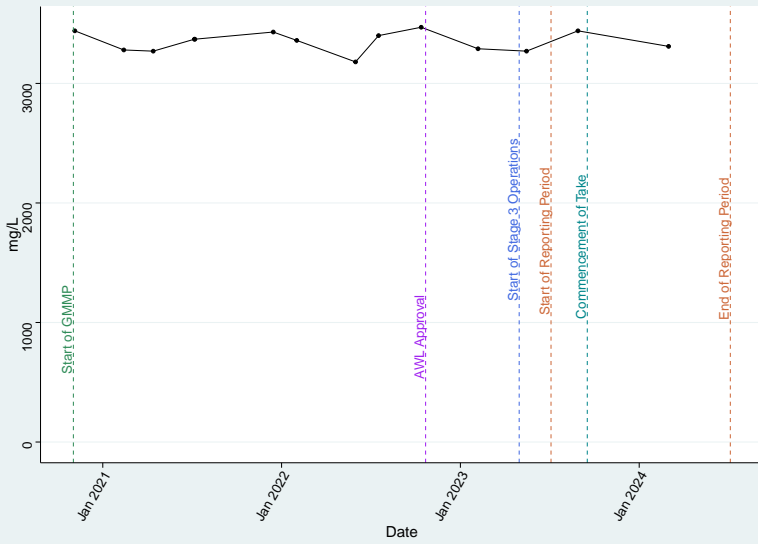
Bore 28PcR (Balgowan Coal Sequence) – Ca

Mann Kendall Trend Test | $\tau = 0.189$ | $p\text{-value} = 0.38$ | No trend



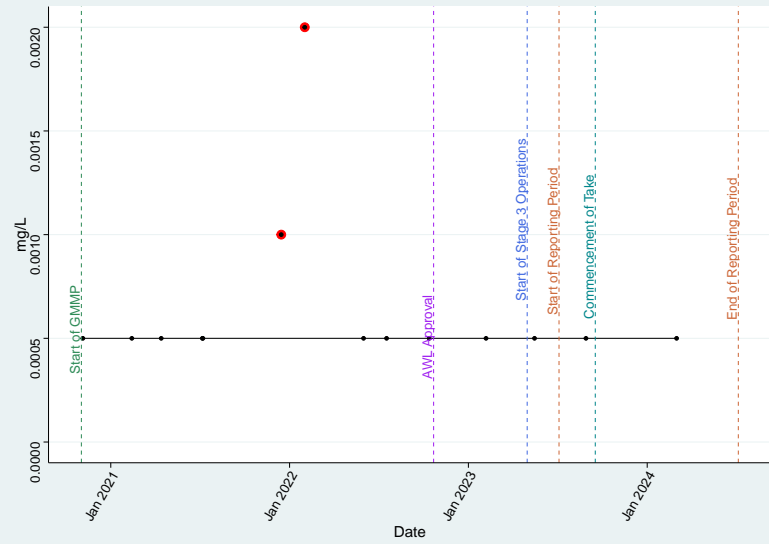
Bore 28PcR (Balgowan Coal Sequence) – Cl

Mann Kendall Trend Test | $\tau = 0$ | p-value = 1 | No trend



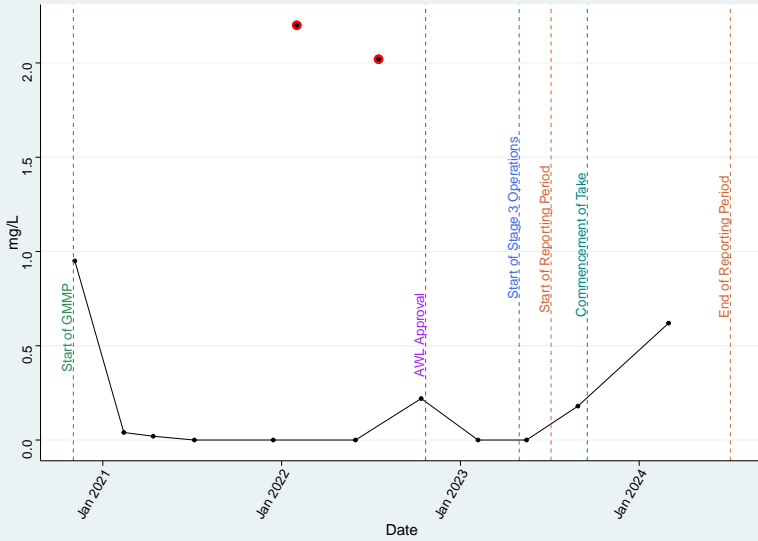
Bore 28PcR (Balgowan Coal Sequence) – Cu_diss

Mann Kendall Trend Test | $\tau = -0.0629$ | p-value = 0.856 | No trend



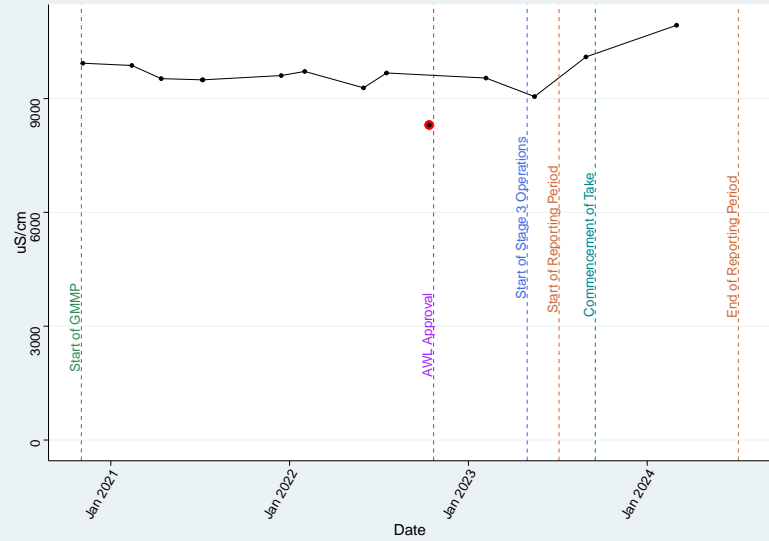
Bore 28PcR (Balgowan Coal Sequence) – DO_Field

Mann Kendall Trend Test | $\tau = -0.0549$ | p-value = 0.85 | No trend



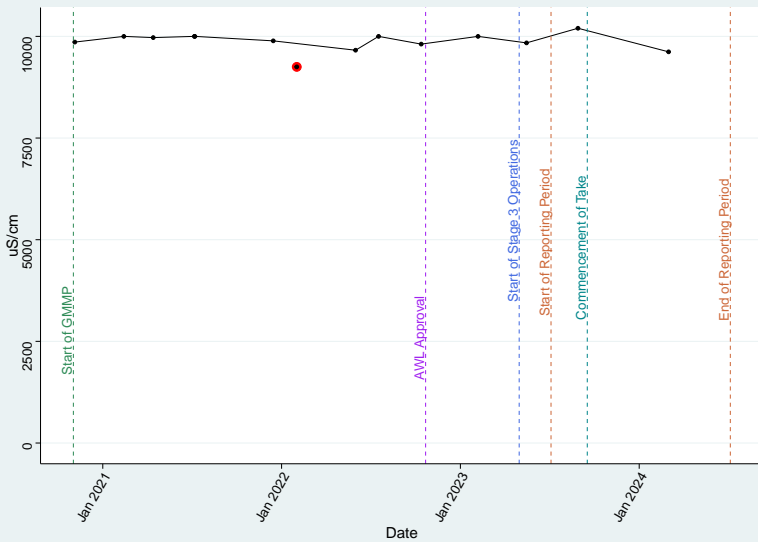
Bore 28PcR (Balgowan Coal Sequence) – EC_Field

Mann Kendall Trend Test | $\tau = -0.0442$ | p-value = 0.869 | No trend



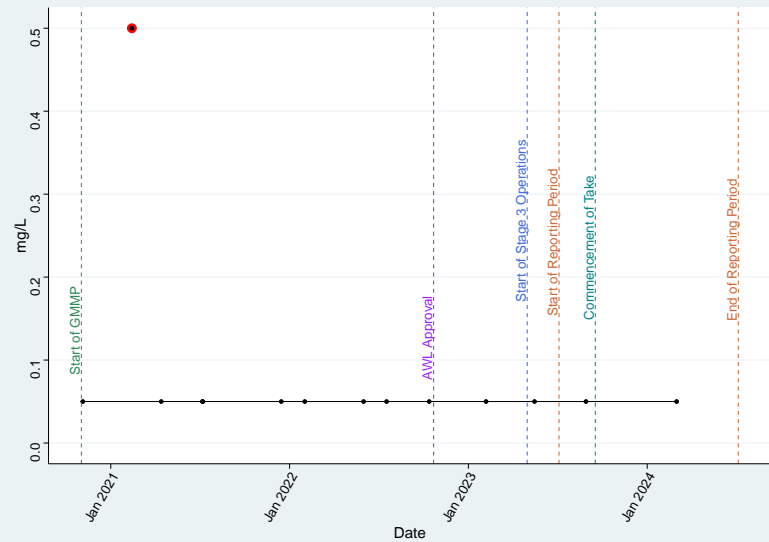
Bore 28PcR (Balgowan Coal Sequence) – EC_Lab

Mann Kendall Trend Test | $\tau = -0.0815$ | p-value = 0.736 | No trend



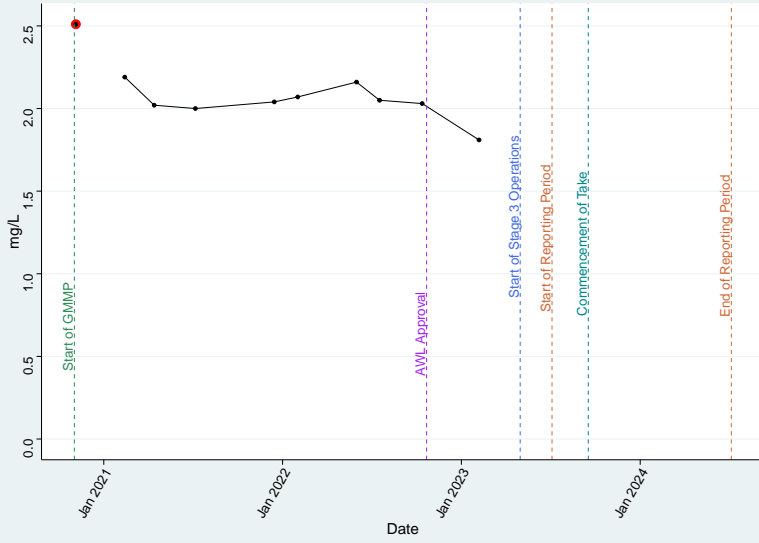
Bore 28PcR (Balgowan Coal Sequence) – F

Mann Kendall Trend Test | $\tau = -0.32$ | p-value = 0.215 | No trend



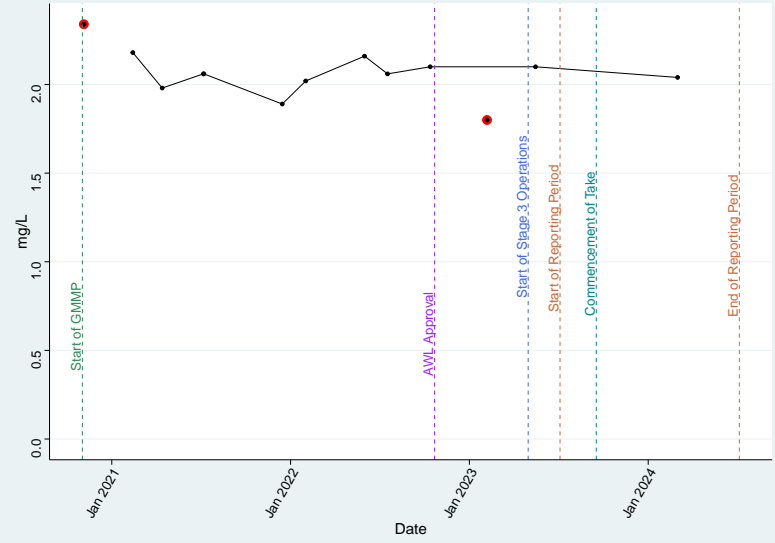
Bore 28PcR (Balgowan Coal Sequence) – Fe2

Mann Kendall Trend Test | $\tau = -0.378$ | p -value = 0.152 | No trend



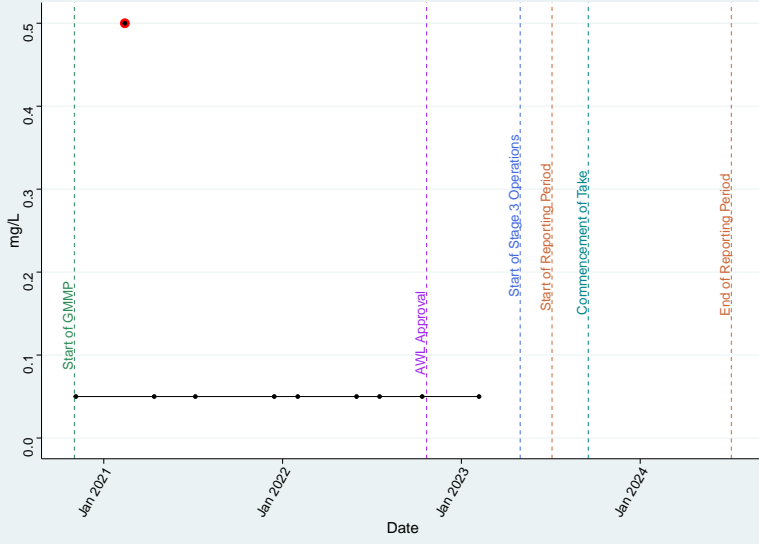
Bore 28PcR (Balgowan Coal Sequence) – Fe_diss

Mann Kendall Trend Test | $\tau = -0.211$ | p -value = 0.356 | No trend



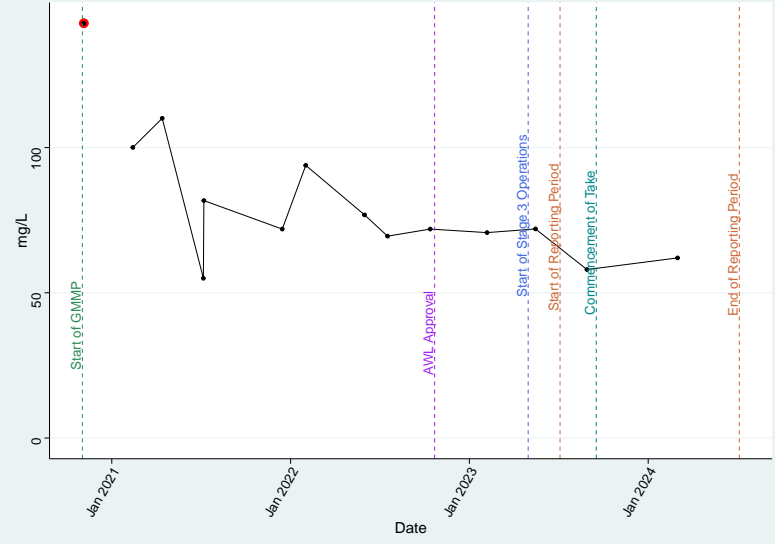
Bore 28PcR (Balgowan Coal Sequence) – H2S

Mann Kendall Trend Test | $\tau = -0.348$ | p -value = 0.296 | No trend



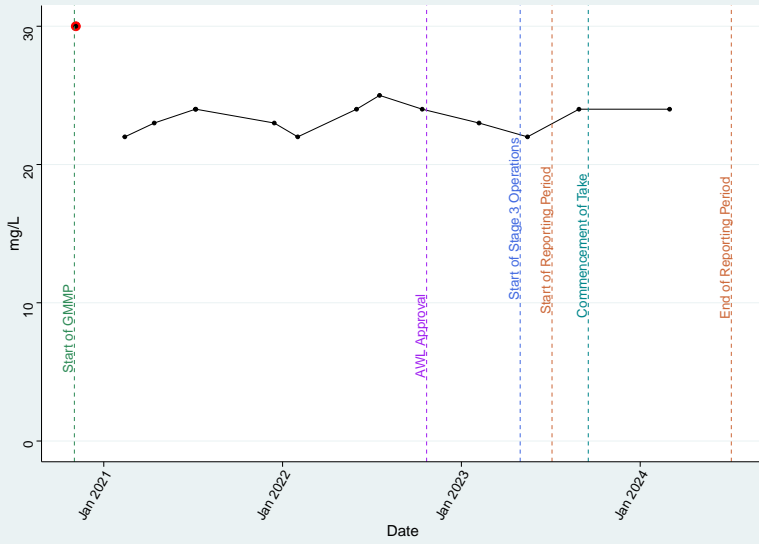
Bore 28PcR (Balgowan Coal Sequence) – HCO3

Mann Kendall Trend Test | $\tau = -0.53$ | p -value = 0.00997 | Negative trend



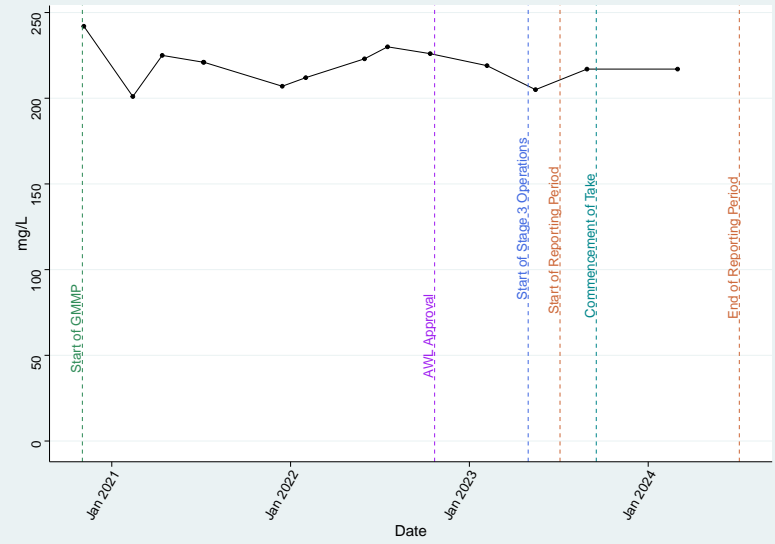
Bore 28PcR (Balgowan Coal Sequence) – K

Mann Kendall Trend Test | $\tau = 0$ | p -value = 1 | No trend



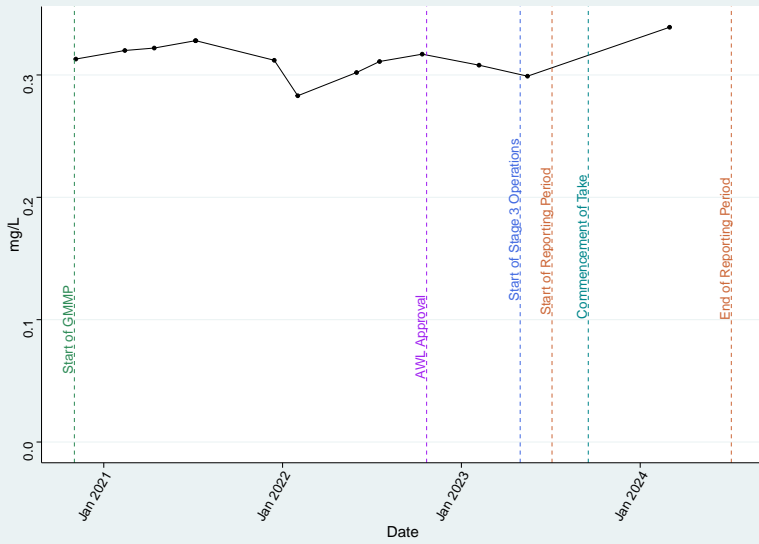
Bore 28PcR (Balgowan Coal Sequence) – Mg

Mann Kendall Trend Test | $\tau = -0.167$ | p -value = 0.442 | No trend



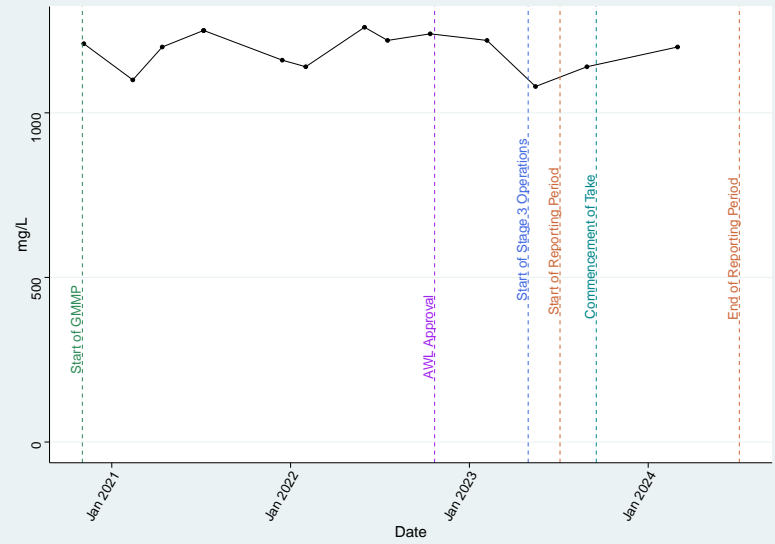
Bore 28PcR (Balgowan Coal Sequence) – Mn_diss

Mann Kendall Trend Test | $\tau = -0.168$ | $p\text{-value} = 0.463$ | No trend



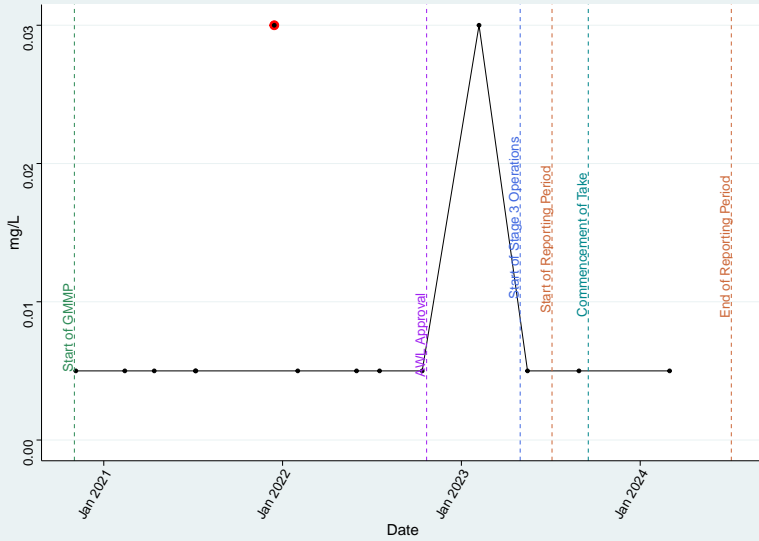
Bore 28PcR (Balgowan Coal Sequence) – Na

Mann Kendall Trend Test | $\tau = -0.101$ | $p\text{-value} = 0.659$ | No trend



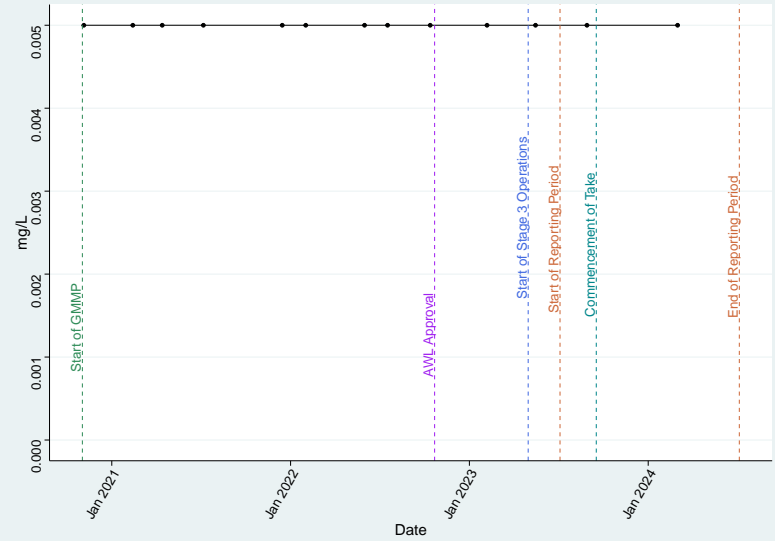
Bore 28PcR (Balgowan Coal Sequence) – Nitrate as N

Mann Kendall Trend Test | $\tau = 0.0856$ | $p\text{-value} = 0.784$ | No trend



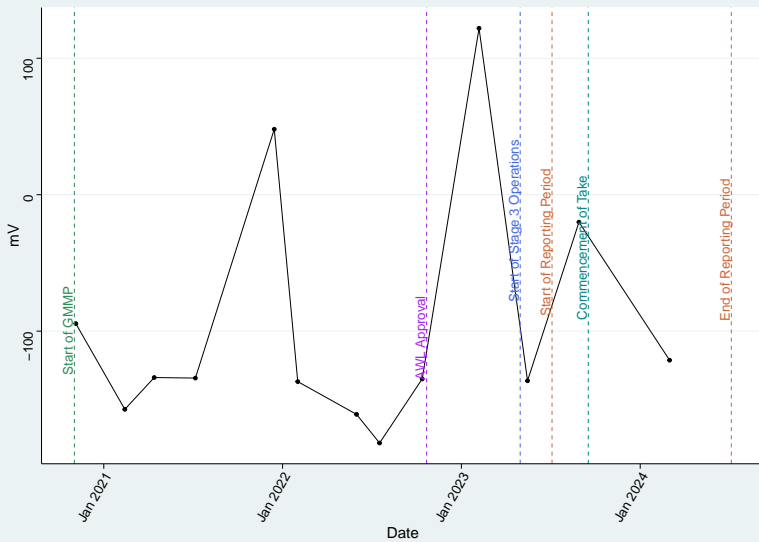
Bore 28PcR (Balgowan Coal Sequence) – Nitrite as N

Mann Kendall Trend Test | $\tau = 1$ | $p\text{-value} = 1$ | No trend



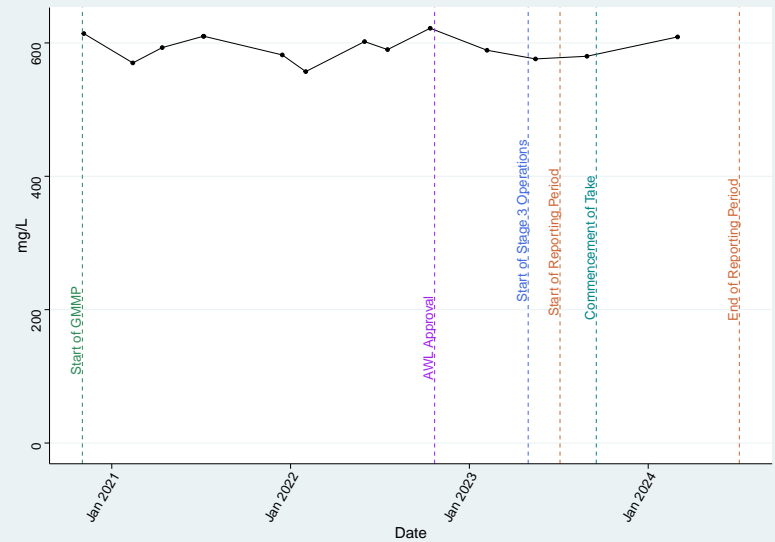
Bore 28PcR (Balgowan Coal Sequence) – Redox_Field

Mann Kendall Trend Test | $\tau = 0.0513$ | $p\text{-value} = 0.855$ | No trend



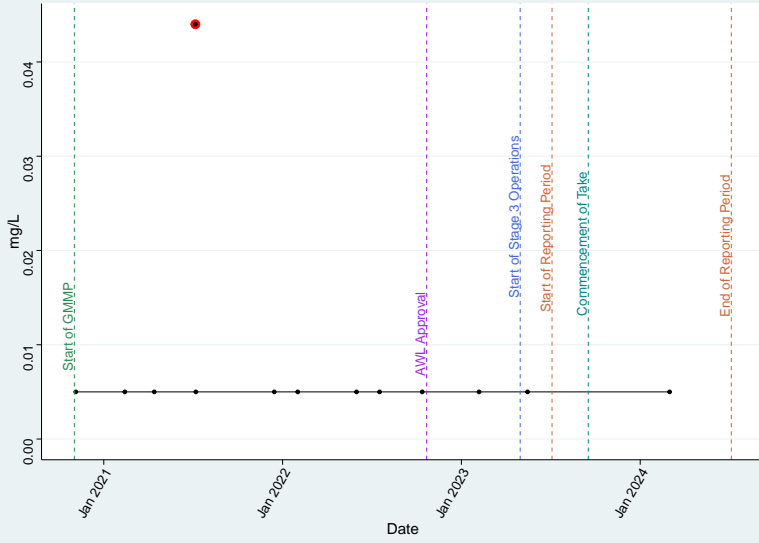
Bore 28PcR (Balgowan Coal Sequence) – SO4

Mann Kendall Trend Test | $\tau = -0.133$ | $p\text{-value} = 0.546$ | No trend



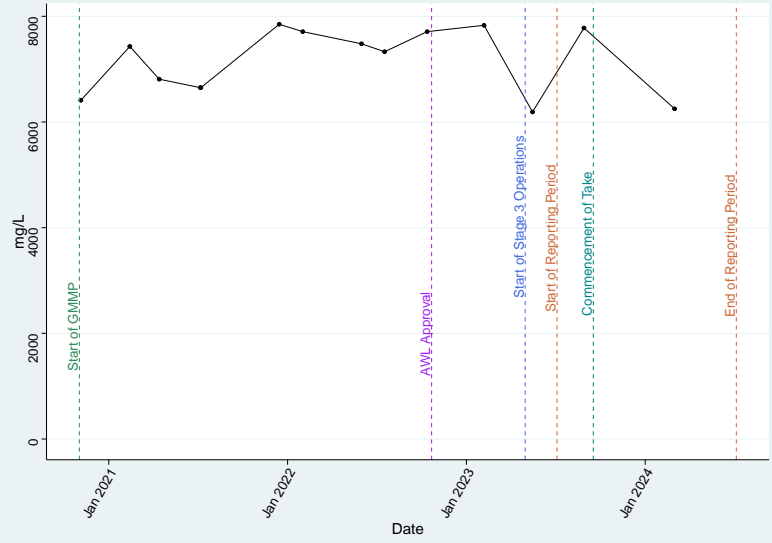
Bore 28PcR (Balgowan Coal Sequence) – Se_diss

Mann Kendall Trend Test | $\tau = -0.196$ | $p\text{-value} = 0.504$ | No trend



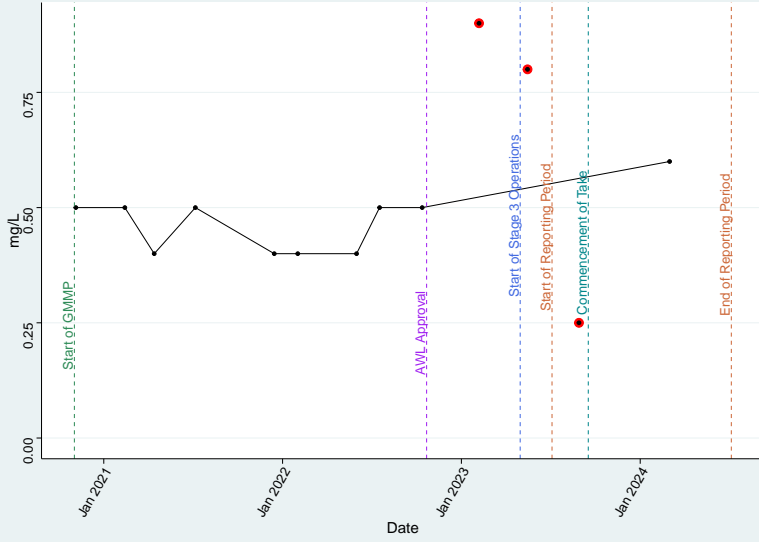
Bore 28PcR (Balgowan Coal Sequence) – TDS

Mann Kendall Trend Test | $\tau = 0.122$ | $p\text{-value} = 0.583$ | No trend



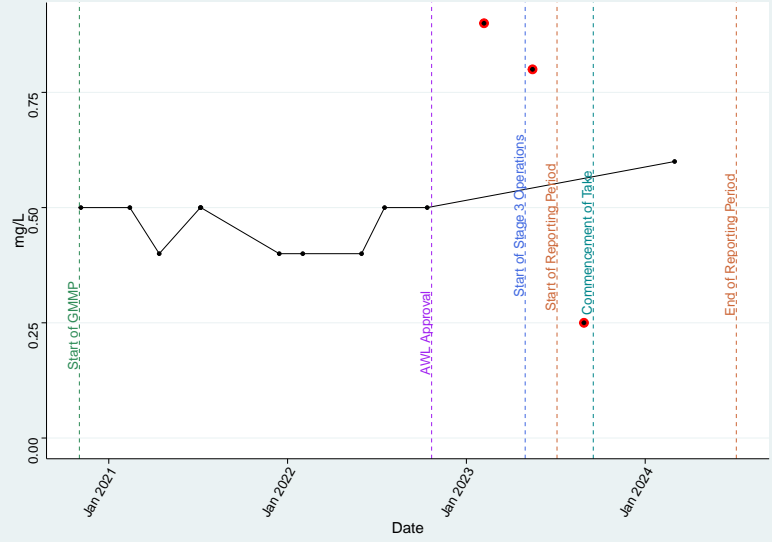
Bore 28PcR (Balgowan Coal Sequence) – TKN

Mann Kendall Trend Test | $\tau = 0.173$ | $p\text{-value} = 0.481$ | No trend



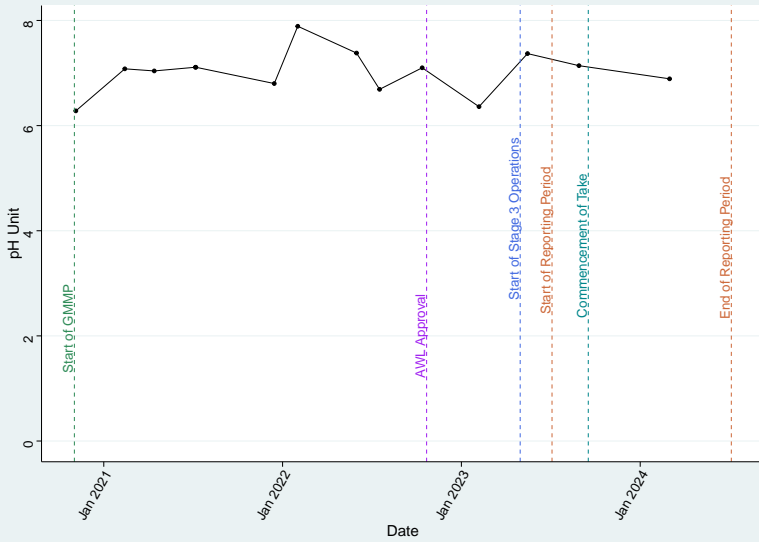
Bore 28PcR (Balgowan Coal Sequence) – Total_N

Mann Kendall Trend Test | $\tau = 0.15$ | $p\text{-value} = 0.523$ | No trend



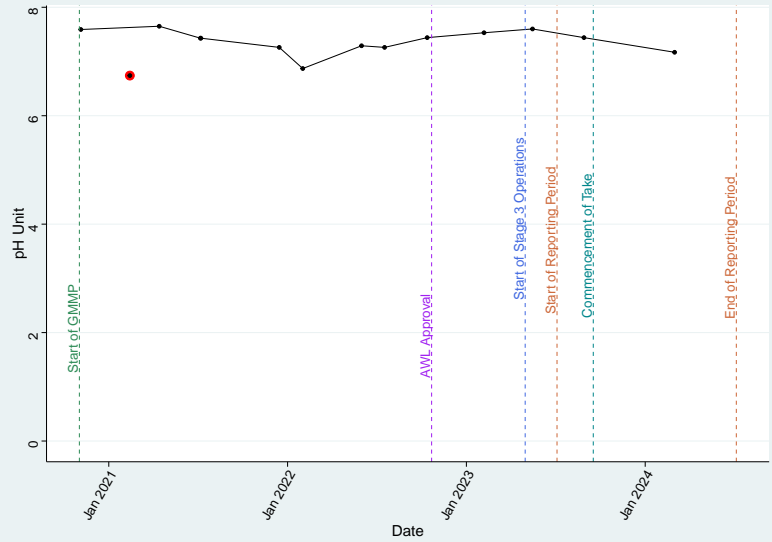
Bore 28PcR (Balgowan Coal Sequence) – pH_Field

Mann Kendall Trend Test | $\tau = 0.11$ | $p\text{-value} = 0.622$ | No trend



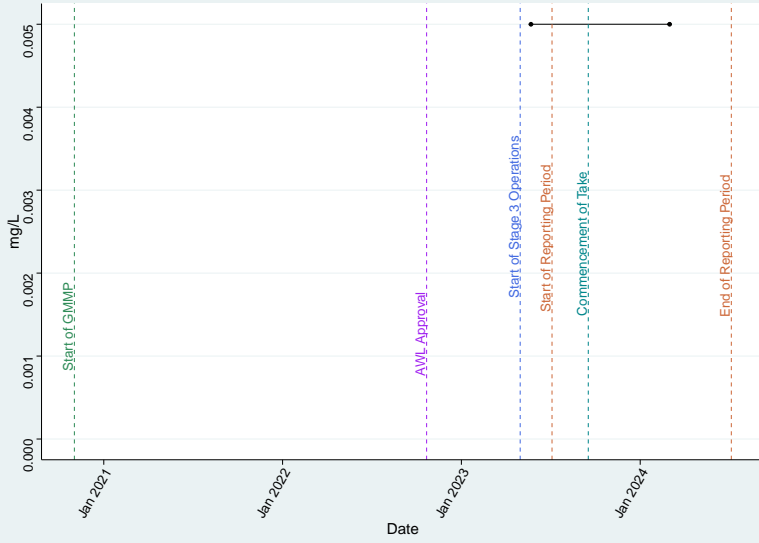
Bore 28PcR (Balgowan Coal Sequence) – pH_Lab

Mann Kendall Trend Test | $\tau = 0.0223$ | $p\text{-value} = 0.956$ | No trend



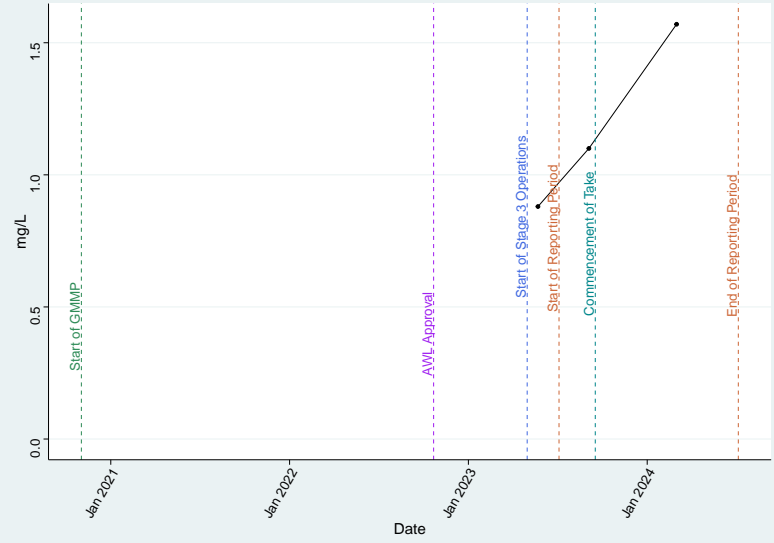
Bore 3307_WBR (Rehabilitated Spoil) – Al_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



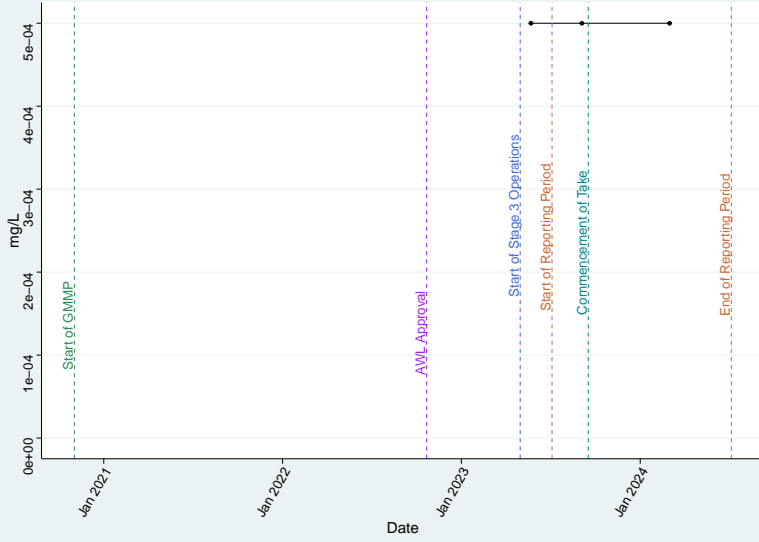
Bore 3307_WBR (Rehabilitated Spoil) – Ammonia as N

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



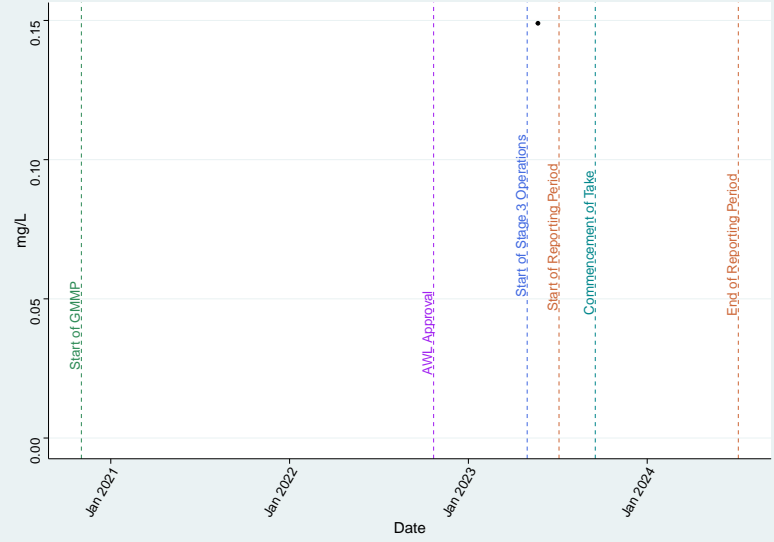
Bore 3307_WBR (Rehabilitated Spoil) – As_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



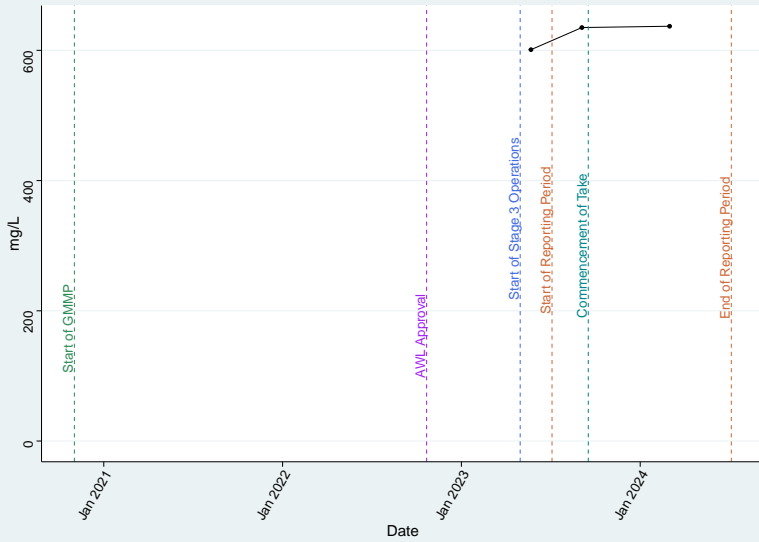
Bore 3307_WBR (Rehabilitated Spoil) – Ba_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



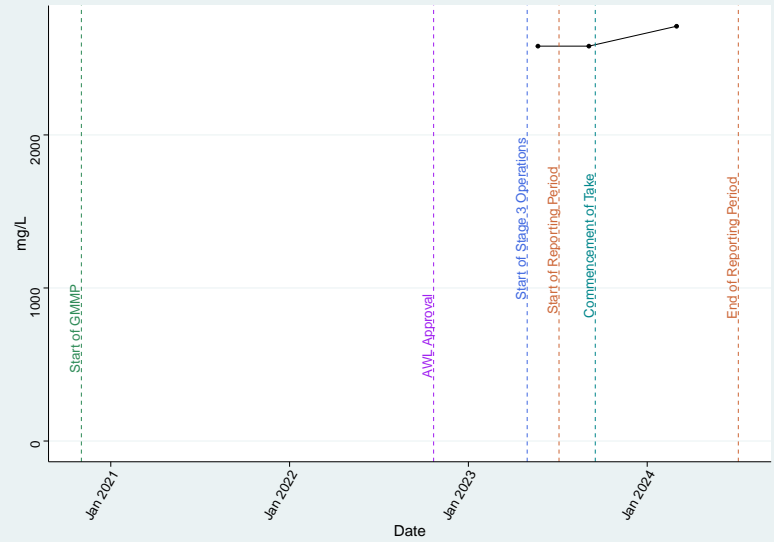
Bore 3307_WBR (Rehabilitated Spoil) – Ca

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



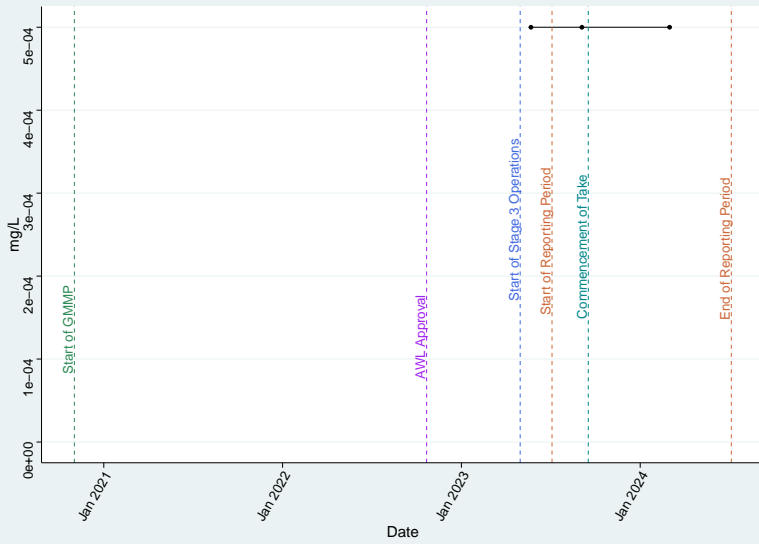
Bore 3307_WBR (Rehabilitated Spoil) – Cl

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



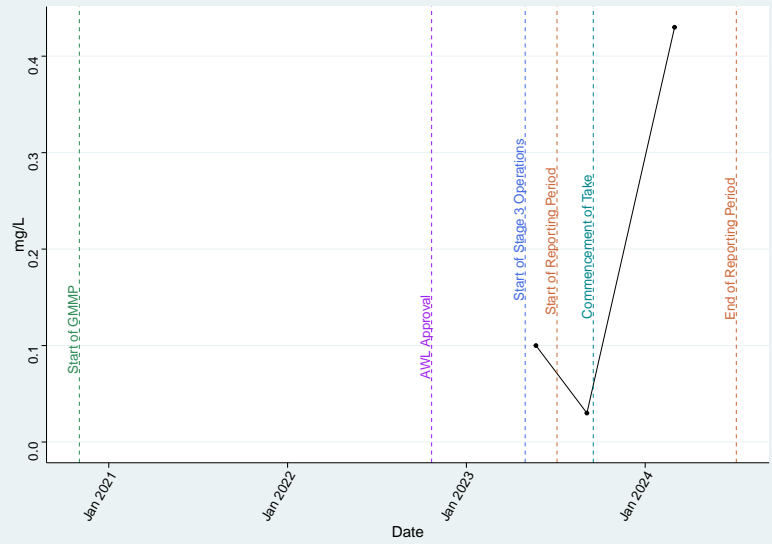
Bore 3307_WBR (Rehabilitated Spoil) – Cu_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



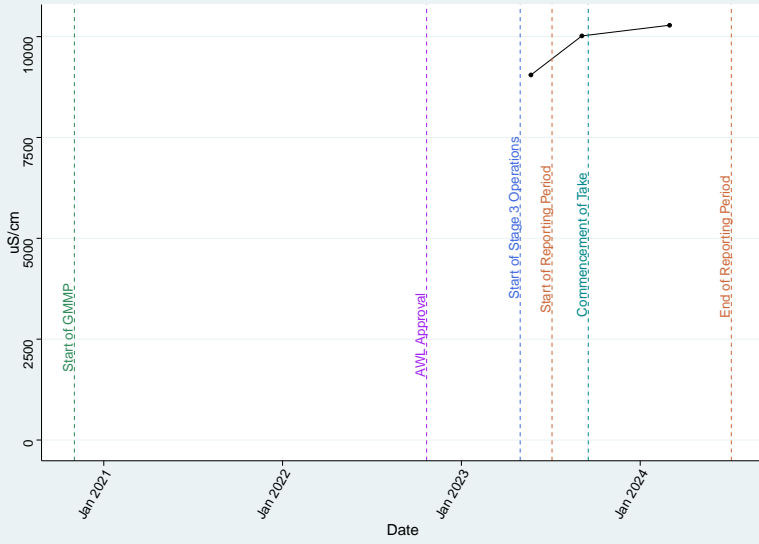
Bore 3307_WBR (Rehabilitated Spoil) – DO_Field

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



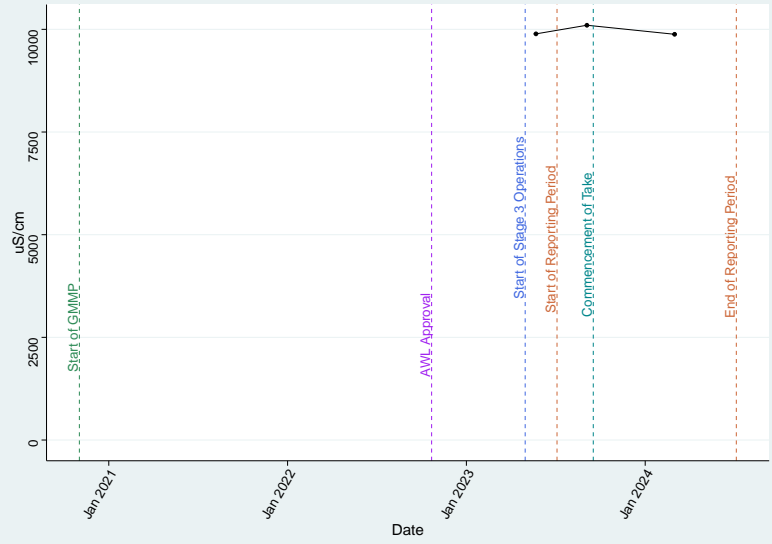
Bore 3307_WBR (Rehabilitated Spoil) – EC_Field

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



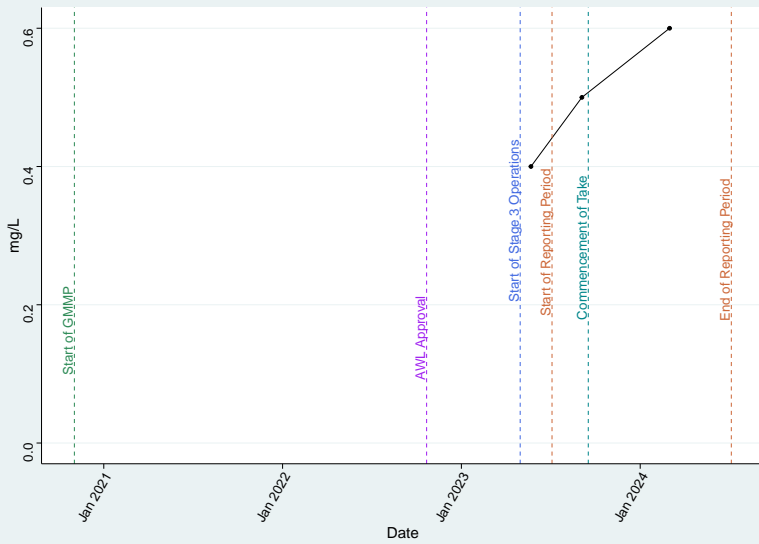
Bore 3307_WBR (Rehabilitated Spoil) – EC_Lab

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



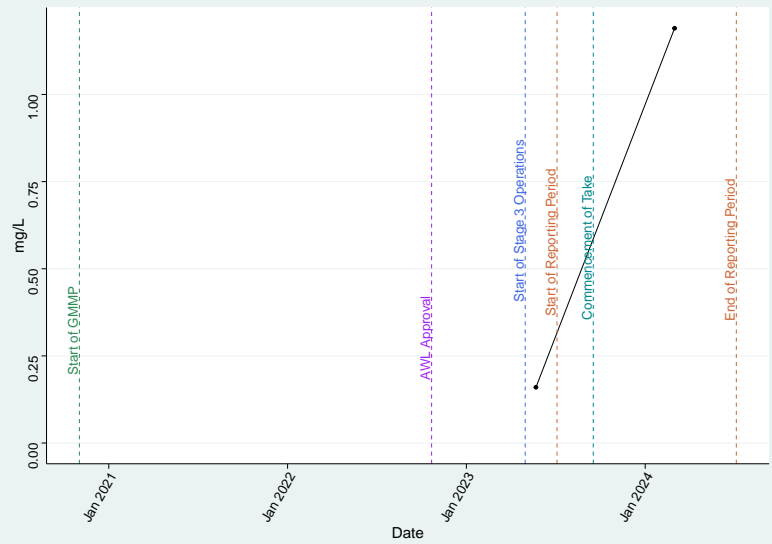
Bore 3307_WBR (Rehabilitated Spoil) – F

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



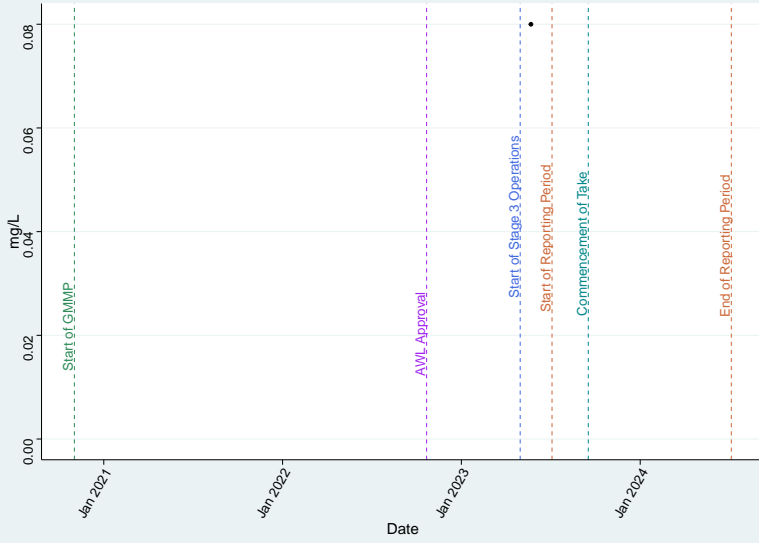
Bore 3307_WBR (Rehabilitated Spoil) – Fe_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



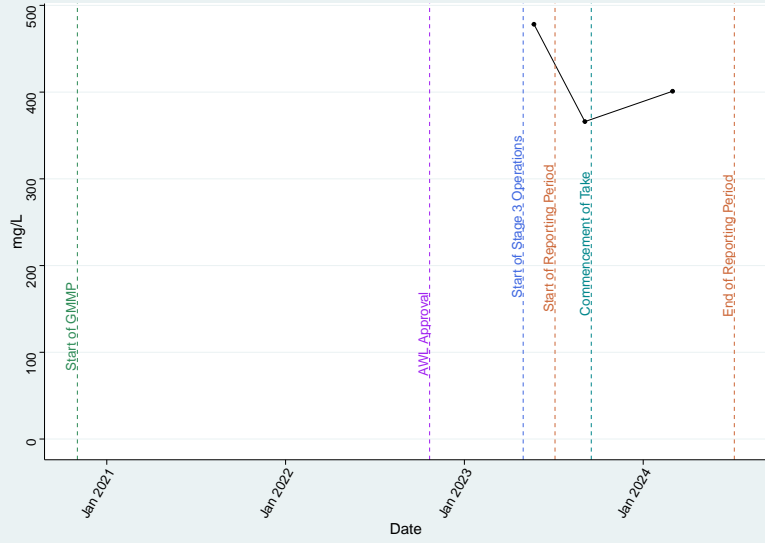
Bore 3307_WBR (Rehabilitated Spoil) – Fe2

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



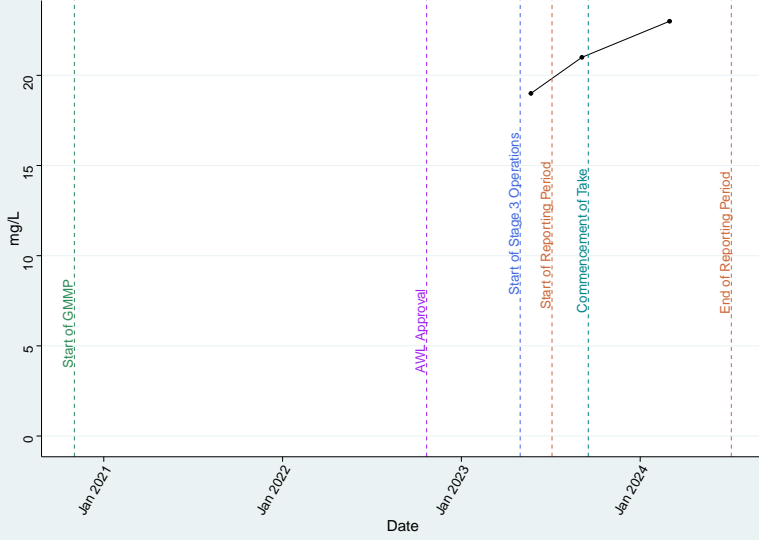
Bore 3307_WBR (Rehabilitated Spoil) – HCO3

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



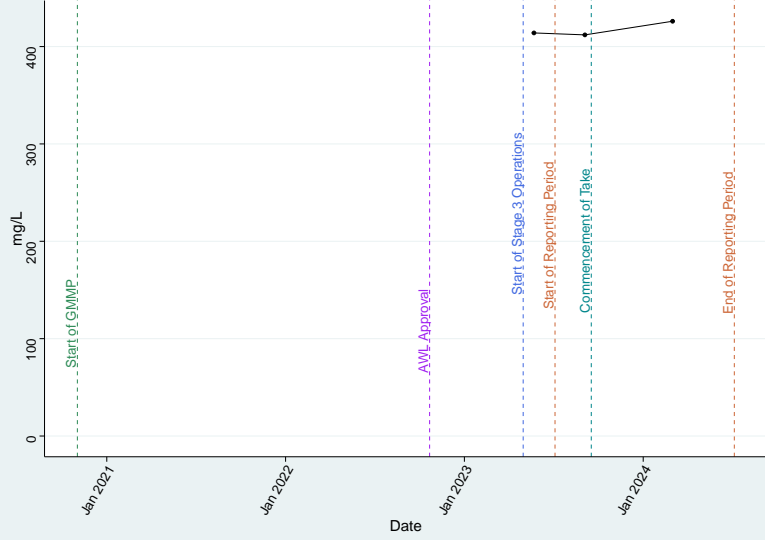
Bore 3307_WBR (Rehabilitated Spoil) – K

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



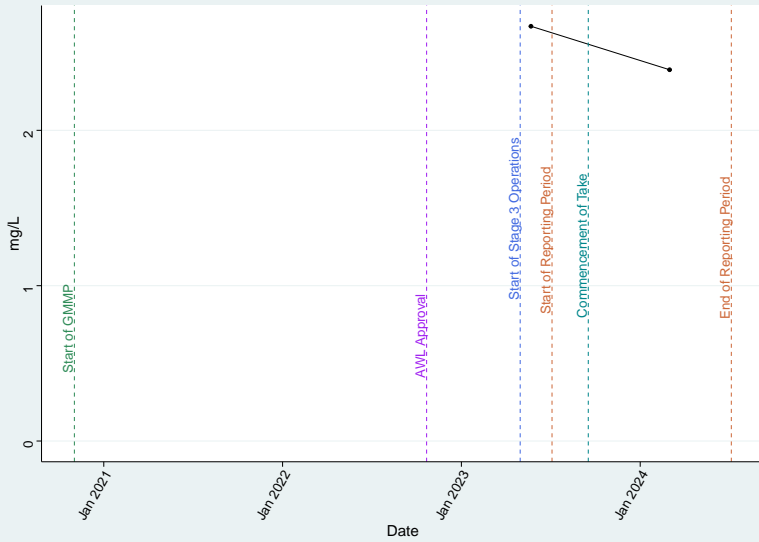
Bore 3307_WBR (Rehabilitated Spoil) – Mg

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



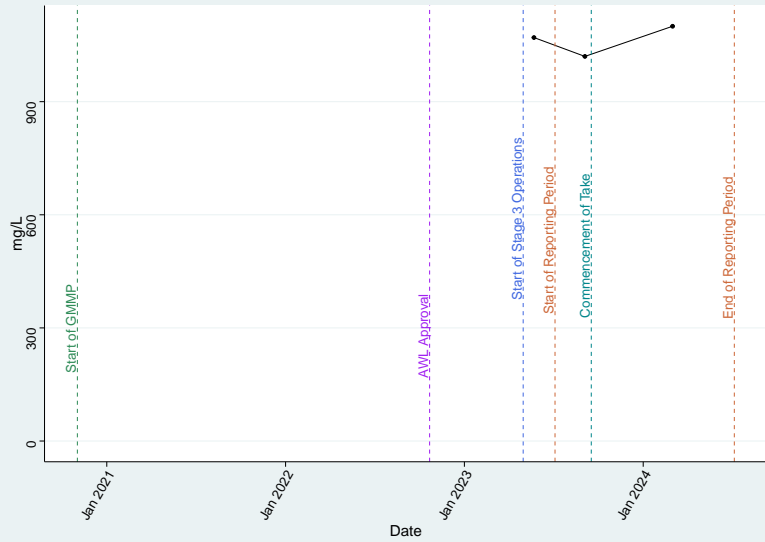
Bore 3307_WBR (Rehabilitated Spoil) – Mn_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



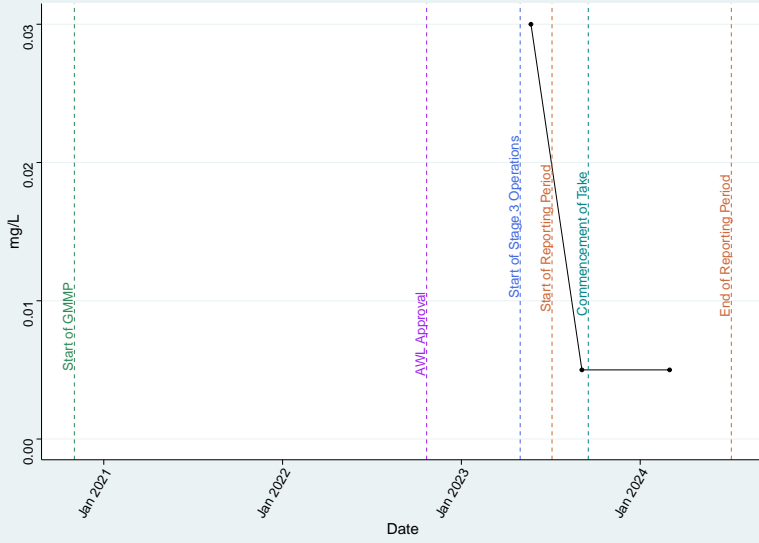
Bore 3307_WBR (Rehabilitated Spoil) – Na

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



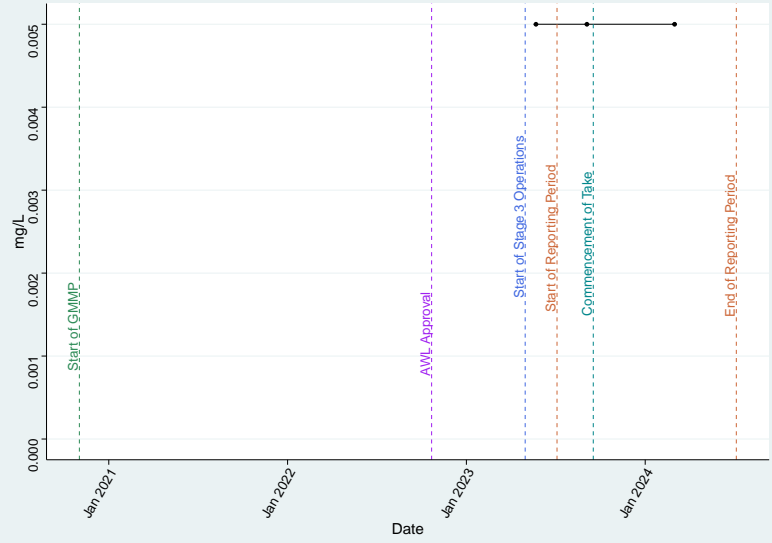
Bore 3307_WBR (Rehabilitated Spoil) – Nitrate as N

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



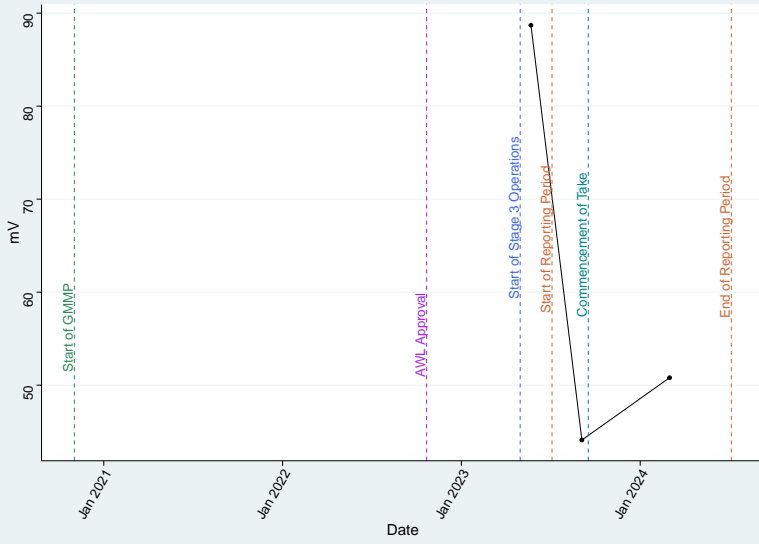
Bore 3307_WBR (Rehabilitated Spoil) – Nitrite as N

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



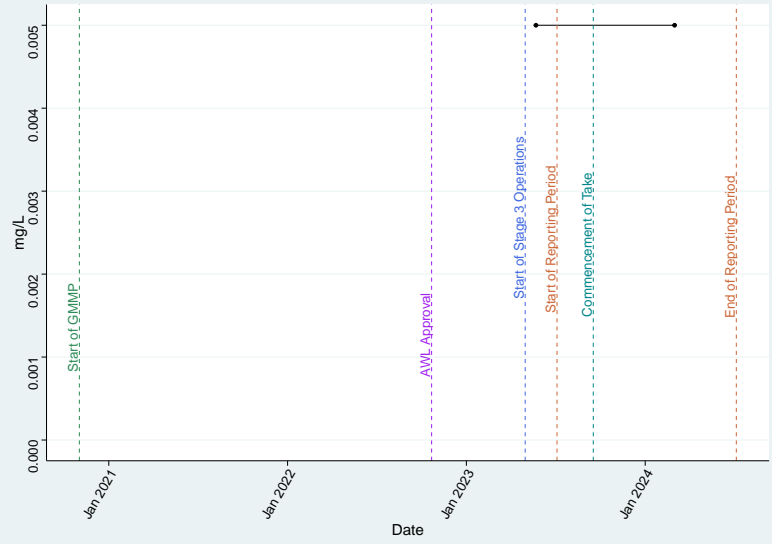
Bore 3307_WBR (Rehabilitated Spoil) – Redox_Field

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



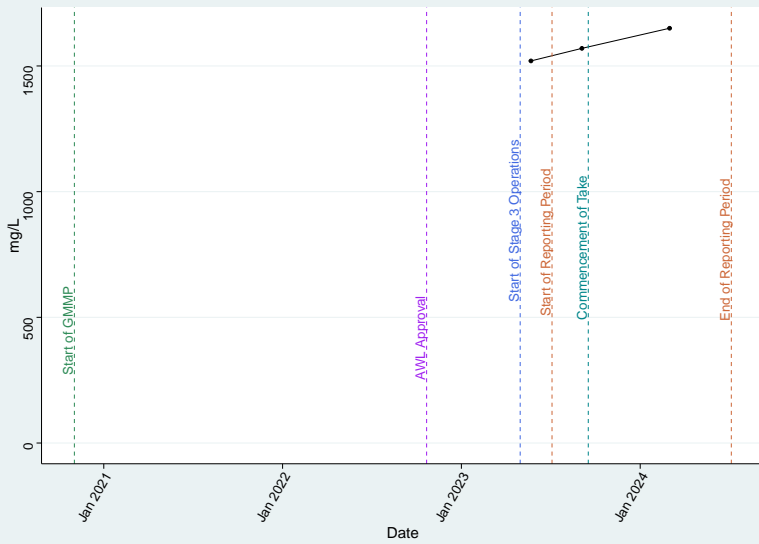
Bore 3307_WBR (Rehabilitated Spoil) – Se_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



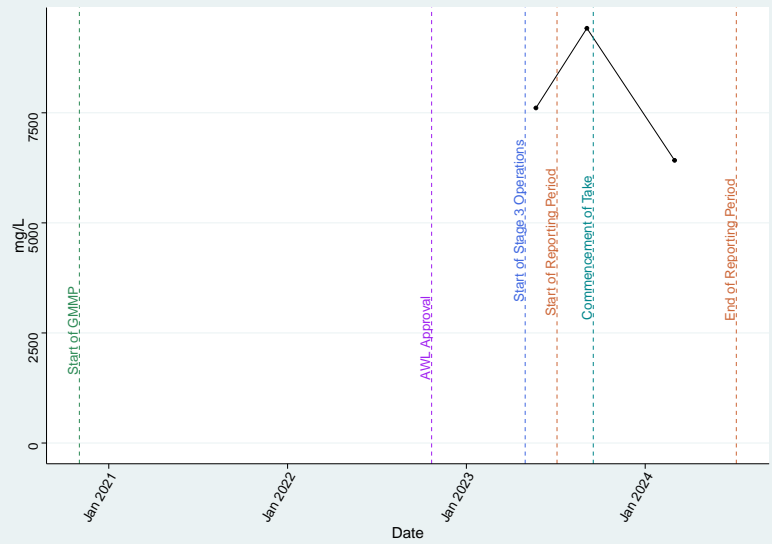
Bore 3307_WBR (Rehabilitated Spoil) – SO4

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



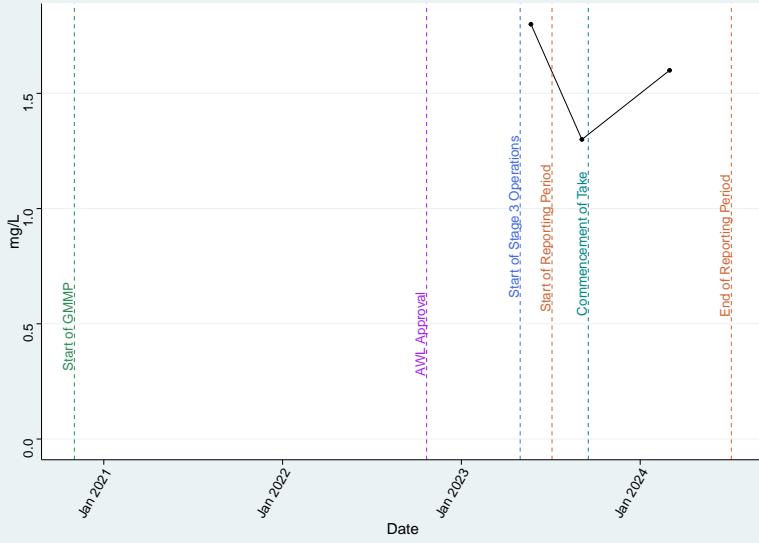
Bore 3307_WBR (Rehabilitated Spoil) – TDS

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



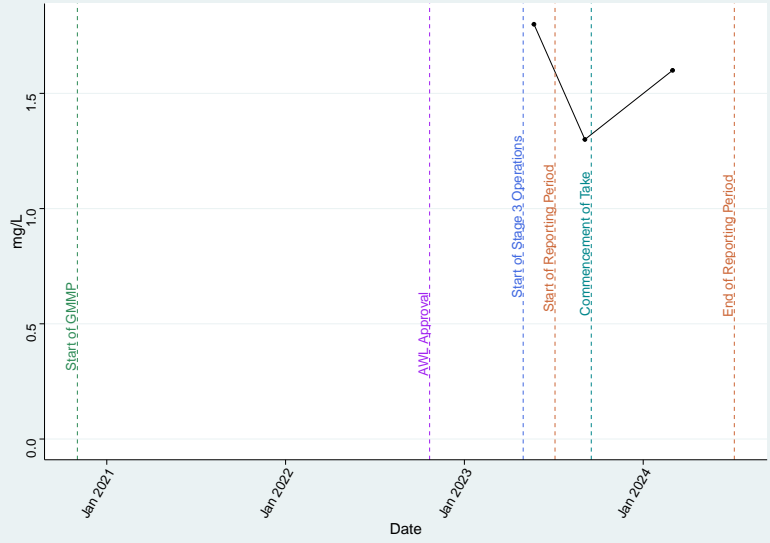
Bore 3307_WBR (Rehabilitated Spoil) – TKN

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



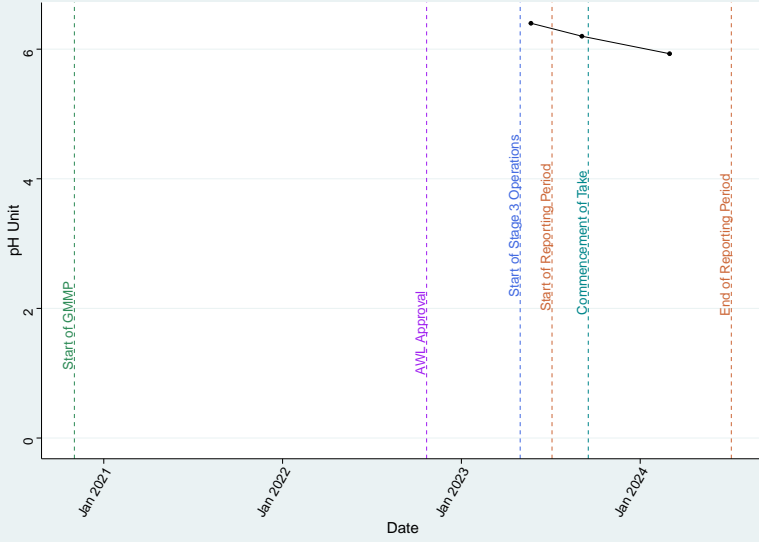
Bore 3307_WBR (Rehabilitated Spoil) – Total_N

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



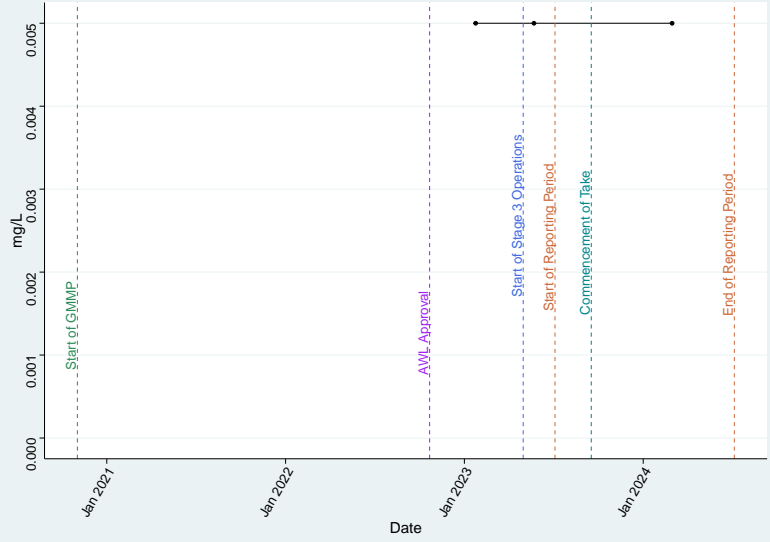
Bore 3307_WBR (Rehabilitated Spoil) – pH_Field

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



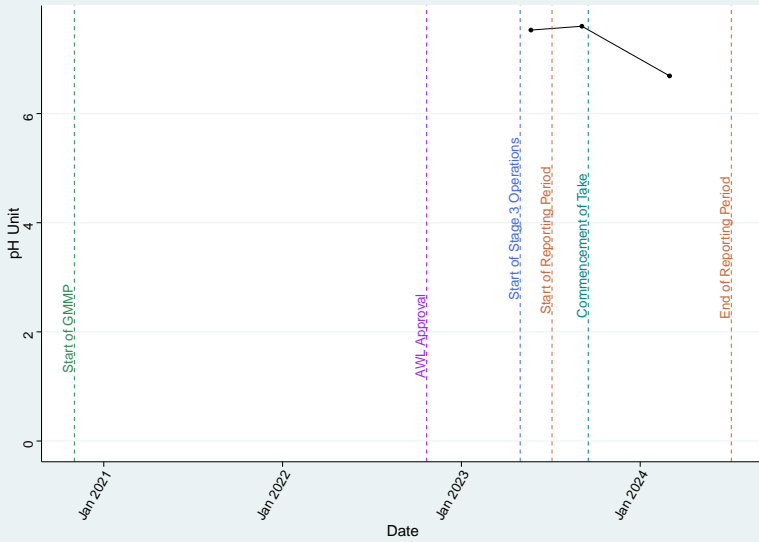
Bore 41P (Marburg Sandstone) – Al_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



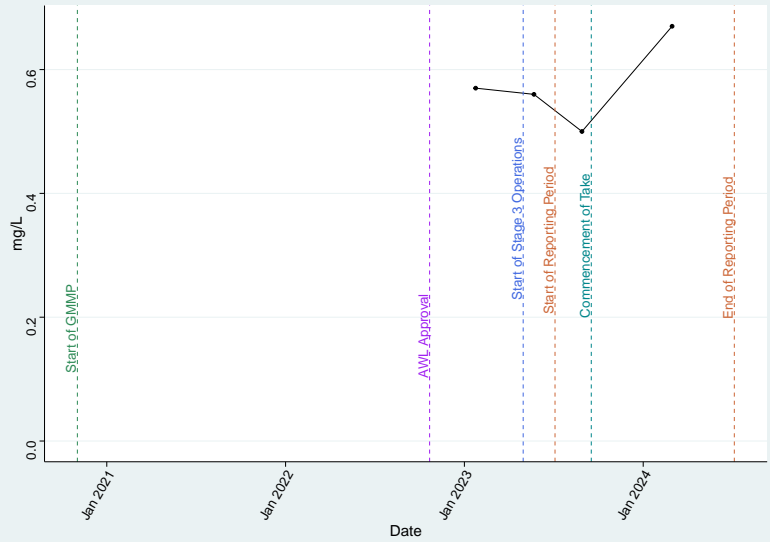
Bore 3307_WBR (Rehabilitated Spoil) – pH_Lab

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated

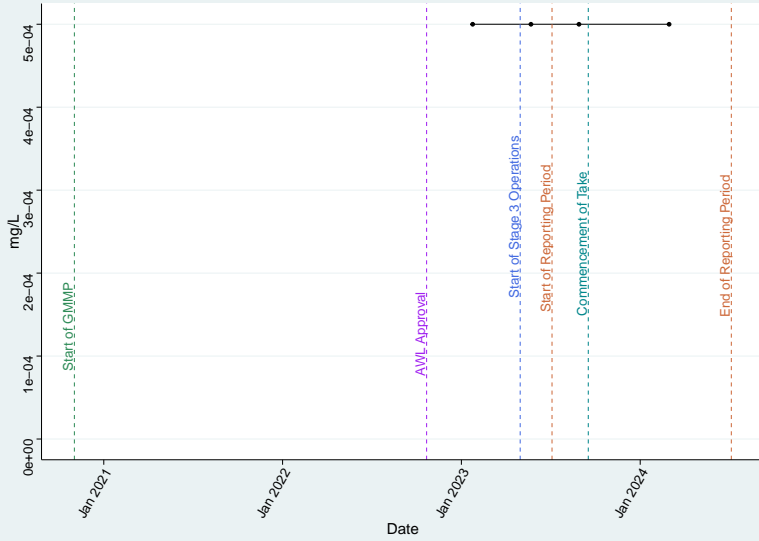


Bore 41P (Marburg Sandstone) – Ammonia as N

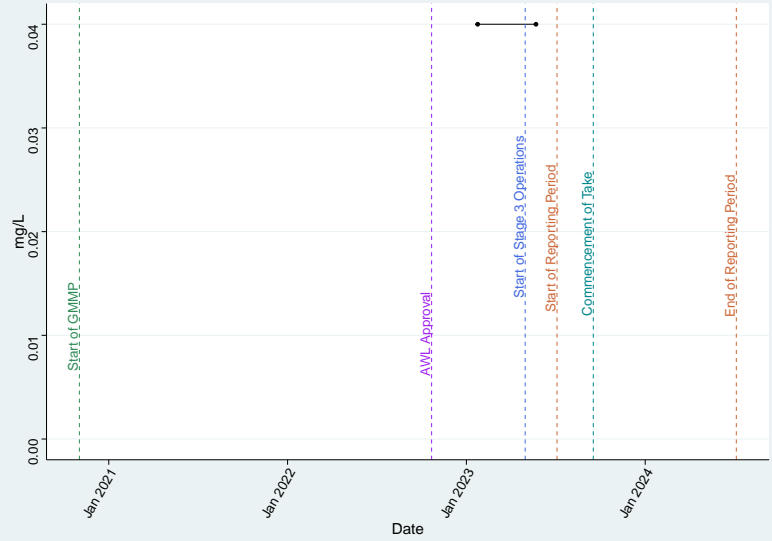
Mann Kendall Trend Test | τ = 0 | p-value = 1 | No trend



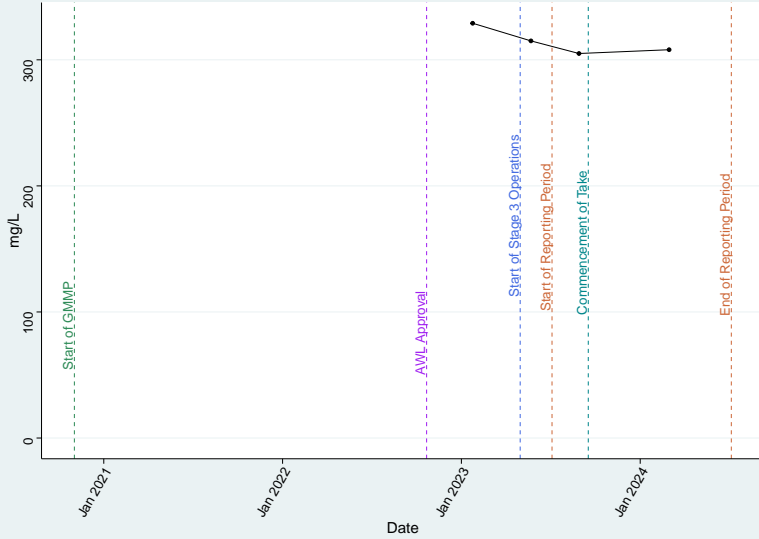
Bore 41P (Marburg Sandstone) – As_diss
 Mann Kendall Trend Test | $\tau = 1$ | $p\text{-value} = 1$ | No trend



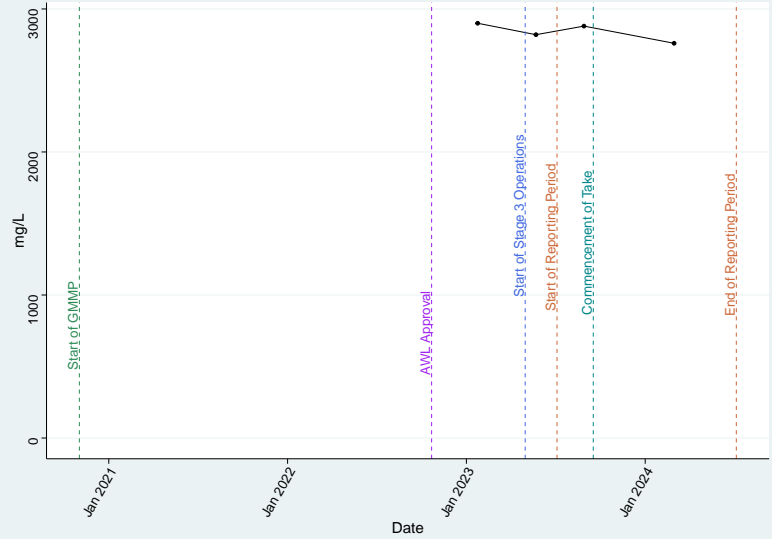
Bore 41P (Marburg Sandstone) – Ba_diss
 Mann Kendall Trend Test | $\tau =$ Not enough data | $p\text{-value} =$ Not enough data | Not evaluated



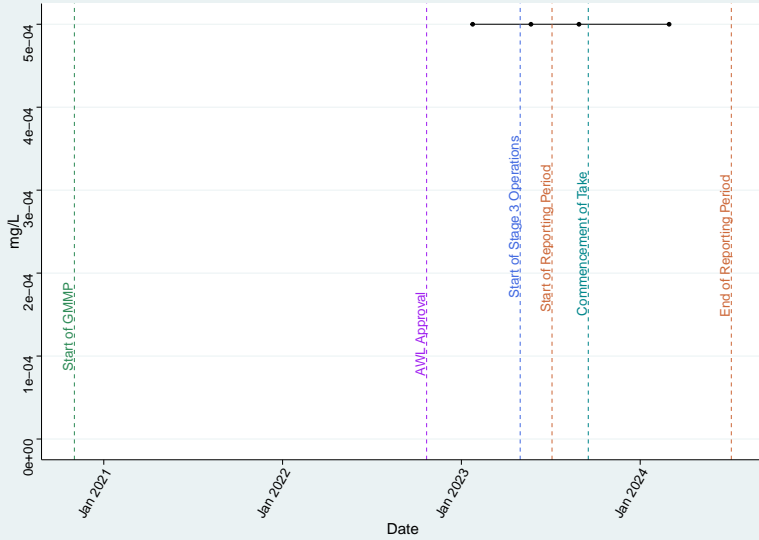
Bore 41P (Marburg Sandstone) – Ca
 Mann Kendall Trend Test | $\tau = -0.667$ | $p\text{-value} = 0.308$ | No trend



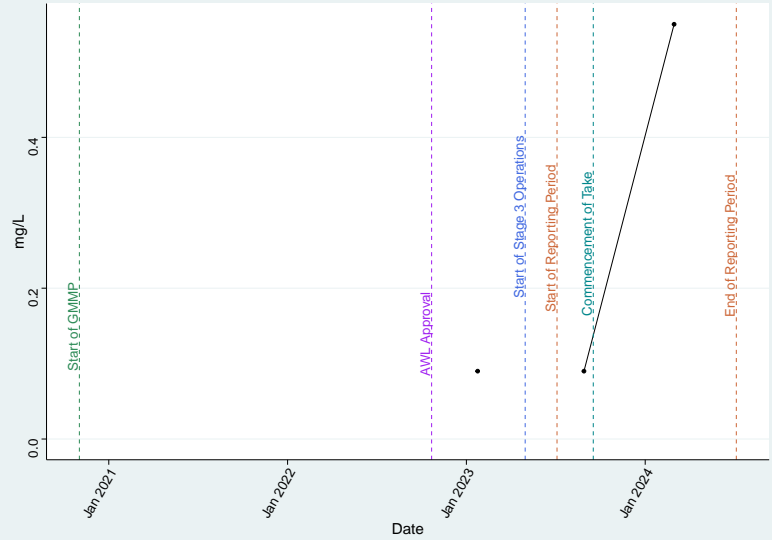
Bore 41P (Marburg Sandstone) – Cl
 Mann Kendall Trend Test | $\tau = -0.667$ | $p\text{-value} = 0.308$ | No trend



Bore 41P (Marburg Sandstone) – Cu_diss
 Mann Kendall Trend Test | $\tau = 1$ | $p\text{-value} = 1$ | No trend

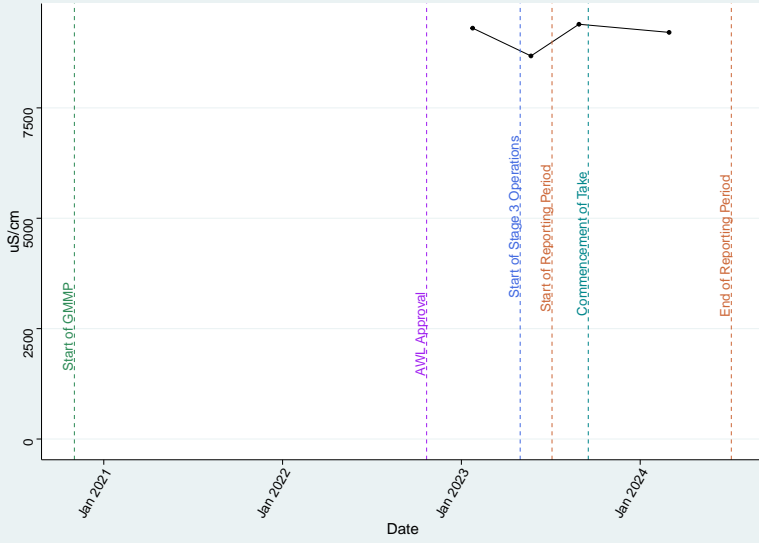


Bore 41P (Marburg Sandstone) – DO_Field
 Mann Kendall Trend Test | $\tau = 0.548$ | $p\text{-value} = 0.47$ | No trend



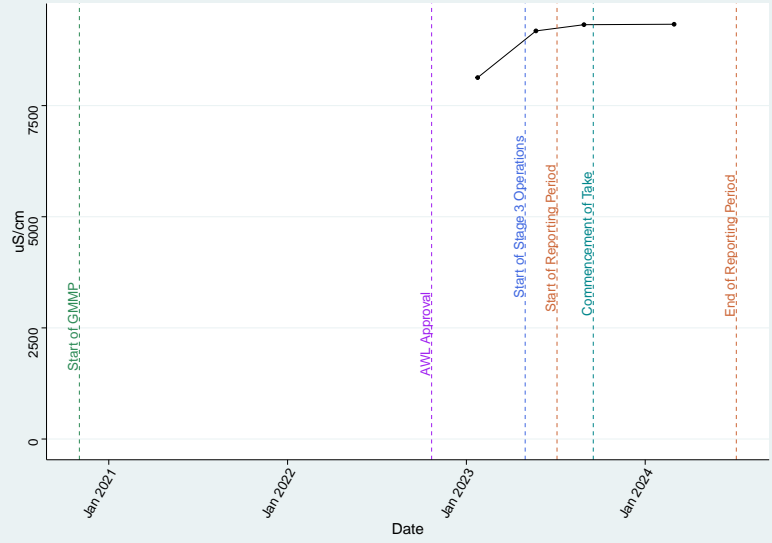
Bore 41P (Marburg Sandstone) – EC_Field

Mann Kendall Trend Test | $\tau = 0$ | p -value = 1 | No trend



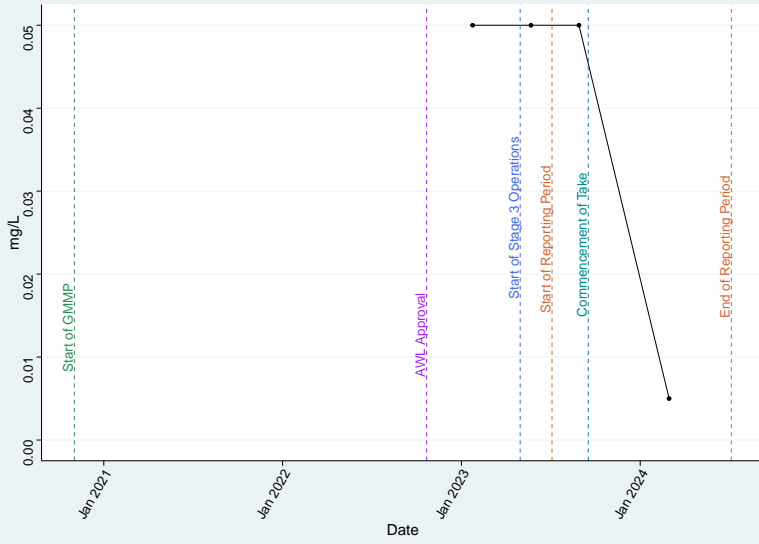
Bore 41P (Marburg Sandstone) – EC_Lab

Mann Kendall Trend Test | $\tau = 1$ | p -value = 0.0894 | No trend



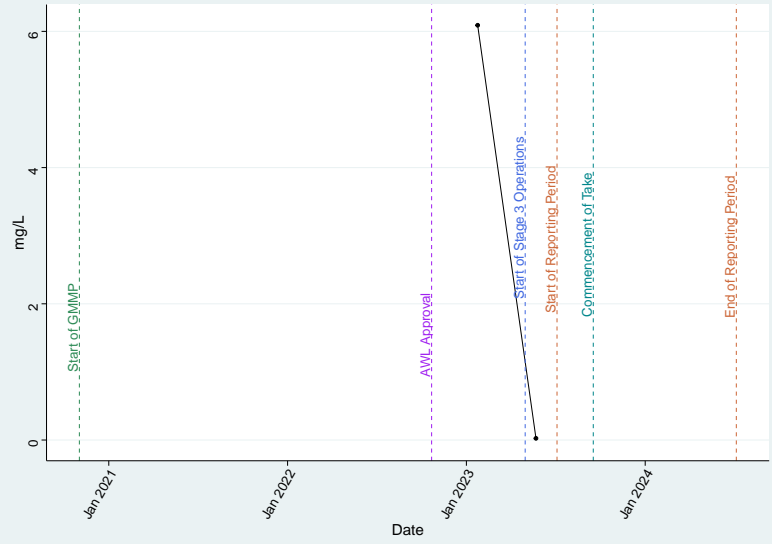
Bore 41P (Marburg Sandstone) – F

Mann Kendall Trend Test | $\tau = -0.707$ | p -value = 0.371 | No trend



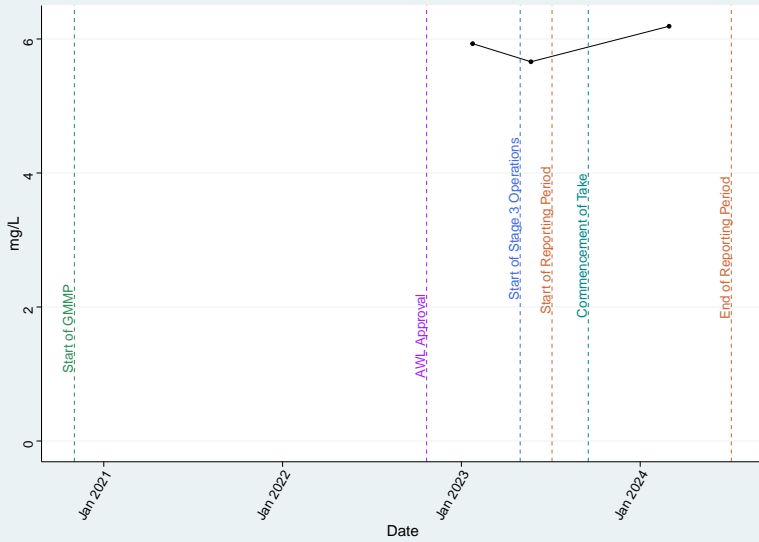
Bore 41P (Marburg Sandstone) – Fe2

Mann Kendall Trend Test | τ = Not enough data | p -value = Not enough data | Not evaluated



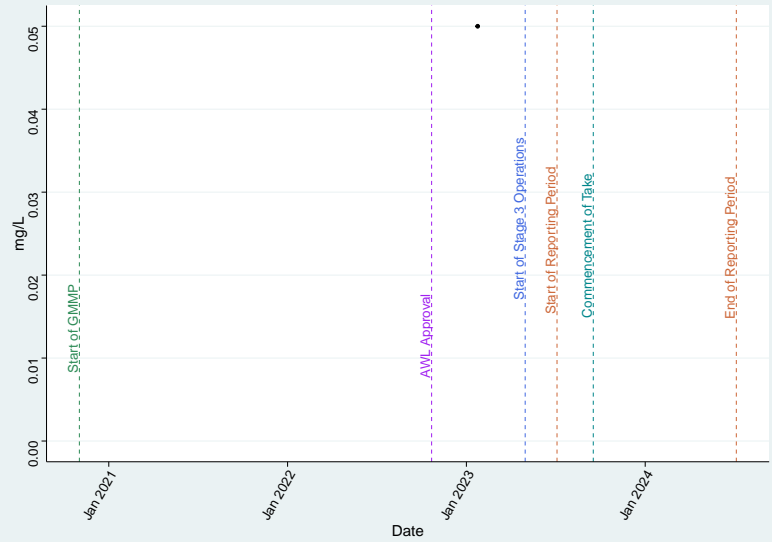
Bore 41P (Marburg Sandstone) – Fe_diss

Mann Kendall Trend Test | τ = Not enough data | p -value = Not enough data | Not evaluated



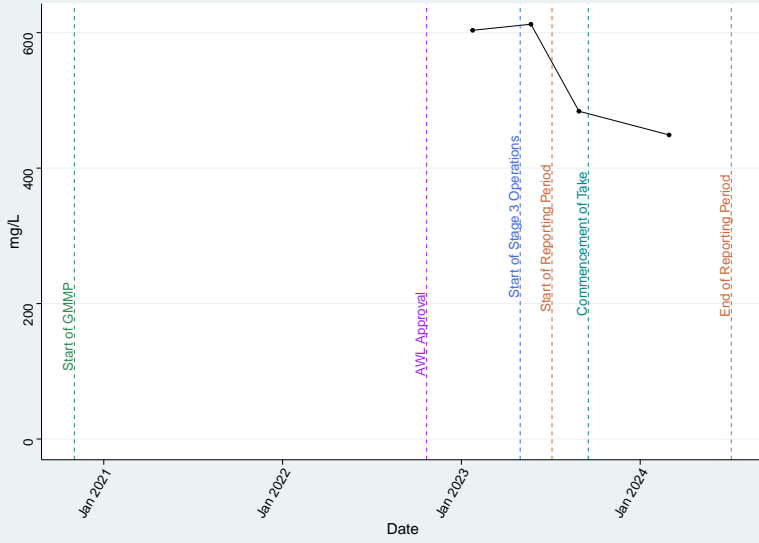
Bore 41P (Marburg Sandstone) – H2S

Mann Kendall Trend Test | τ = Not enough data | p -value = Not enough data | Not evaluated



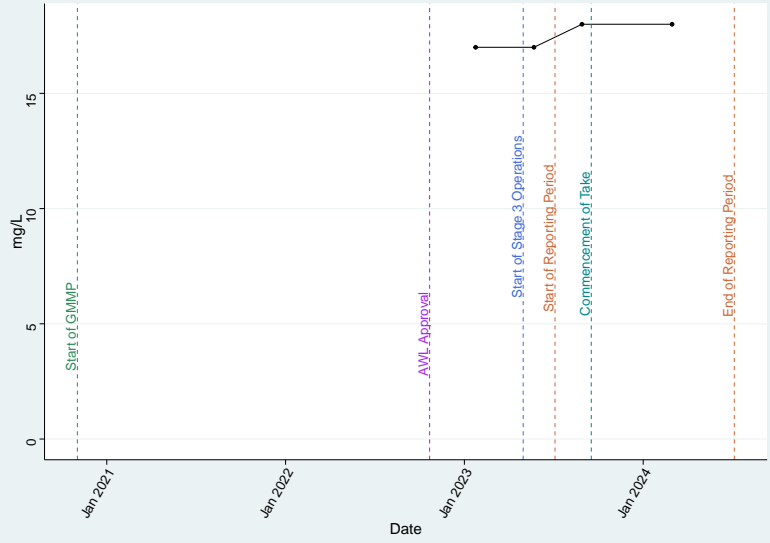
Bore 41P (Marburg Sandstone) – HCO3

Mann Kendall Trend Test | $\tau = -0.667$ | $p\text{-value} = 0.308$ | No trend



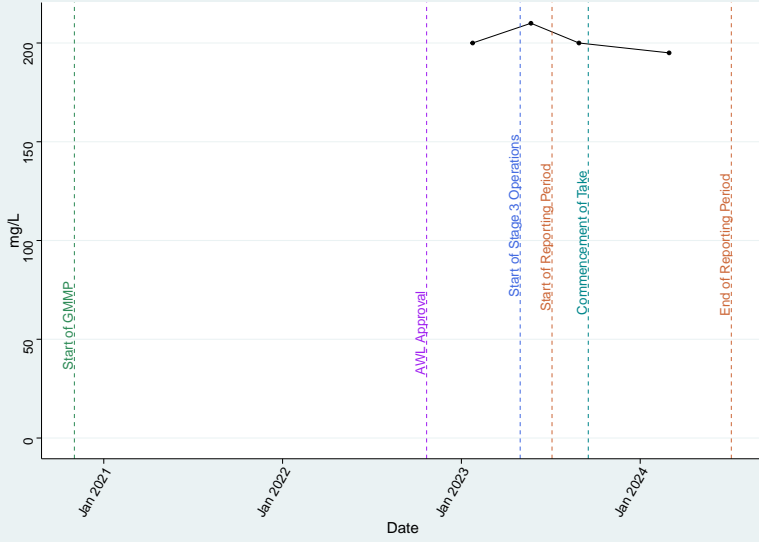
Bore 41P (Marburg Sandstone) – K

Mann Kendall Trend Test | $\tau = 0.816$ | $p\text{-value} = 0.245$ | No trend



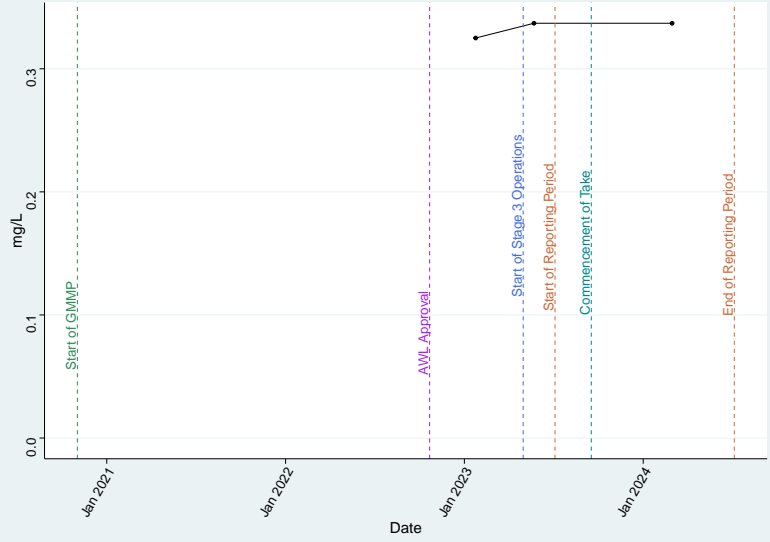
Bore 41P (Marburg Sandstone) – Mg

Mann Kendall Trend Test | $\tau = -0.548$ | $p\text{-value} = 0.47$ | No trend



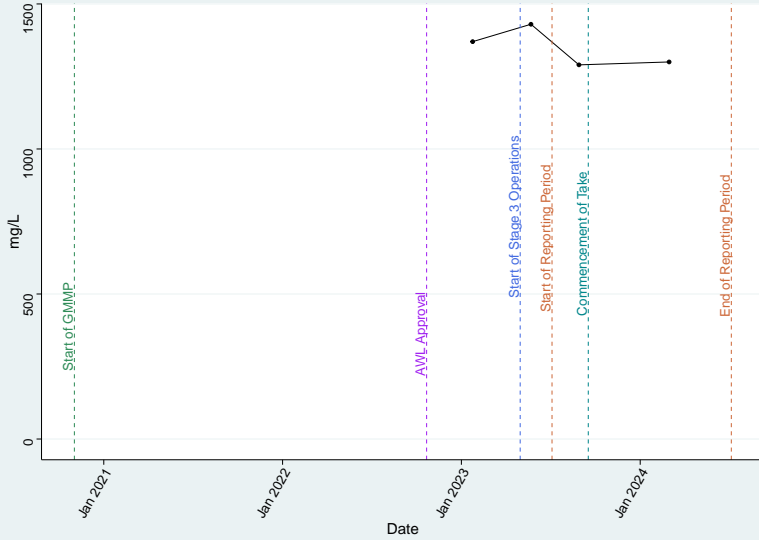
Bore 41P (Marburg Sandstone) – Mn_diss

Mann Kendall Trend Test | $\tau =$ Not enough data | $p\text{-value} =$ Not enough data | Not evaluated



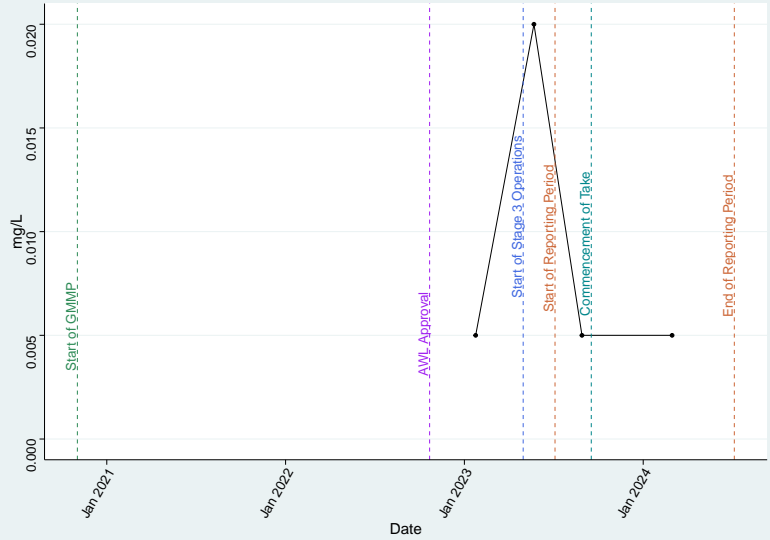
Bore 41P (Marburg Sandstone) – Na

Mann Kendall Trend Test | $\tau = -0.333$ | $p\text{-value} = 0.734$ | No trend



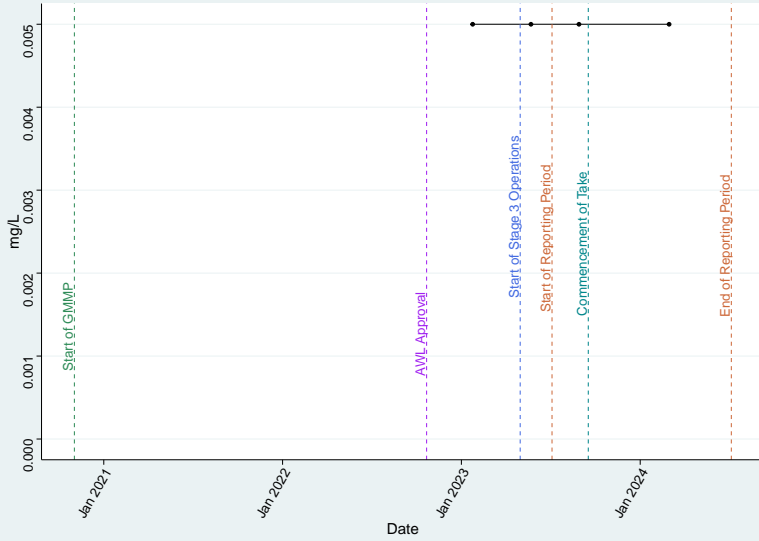
Bore 41P (Marburg Sandstone) – Nitrate as N

Mann Kendall Trend Test | $\tau = -0.236$ | $p\text{-value} = 1$ | No trend



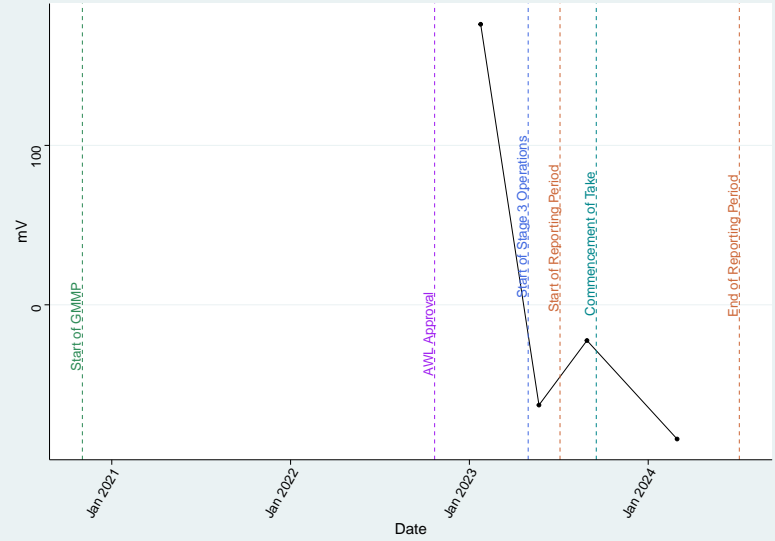
Bore 41P (Marburg Sandstone) – Nitrite as N

Mann Kendall Trend Test | $\tau = 1$ | p -value = 1 | No trend



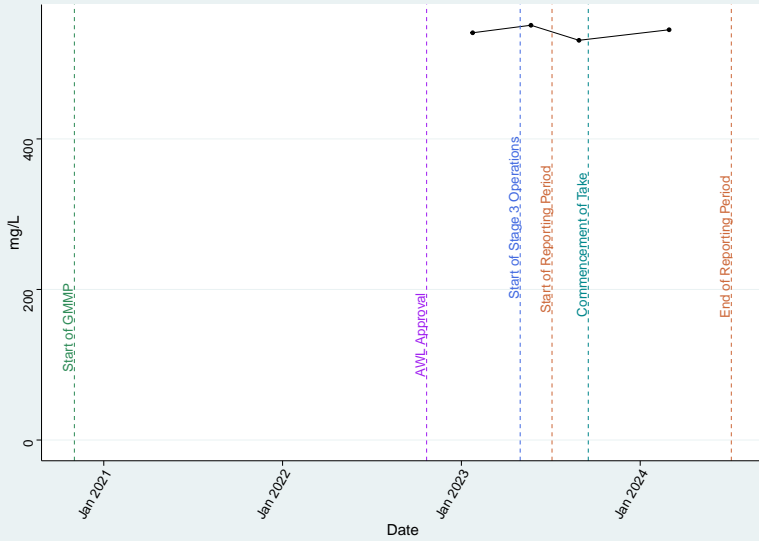
Bore 41P (Marburg Sandstone) – Redox_Field

Mann Kendall Trend Test | $\tau = -0.667$ | p -value = 0.308 | No trend



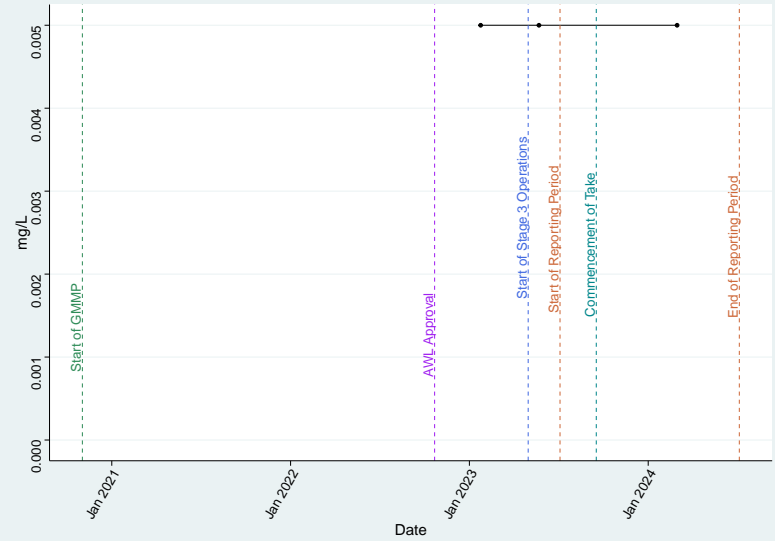
Bore 41P (Marburg Sandstone) – SO4

Mann Kendall Trend Test | $\tau = 0$ | p -value = 1 | No trend



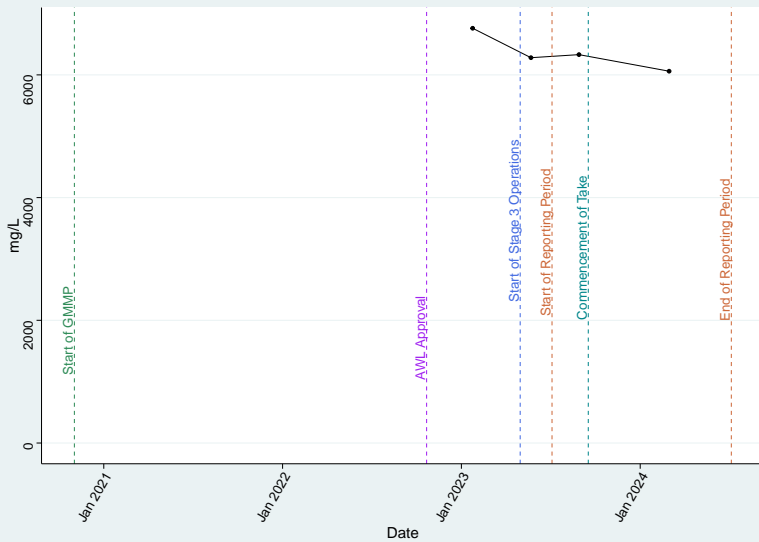
Bore 41P (Marburg Sandstone) – Se_diss

Mann Kendall Trend Test | $\tau =$ Not enough data | p -value = Not enough data | Not evaluated



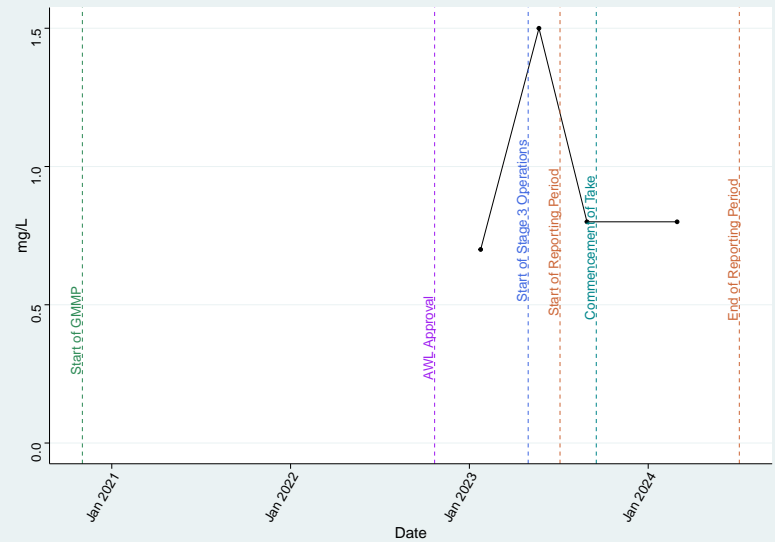
Bore 41P (Marburg Sandstone) – TDS

Mann Kendall Trend Test | $\tau = -0.667$ | p -value = 0.308 | No trend



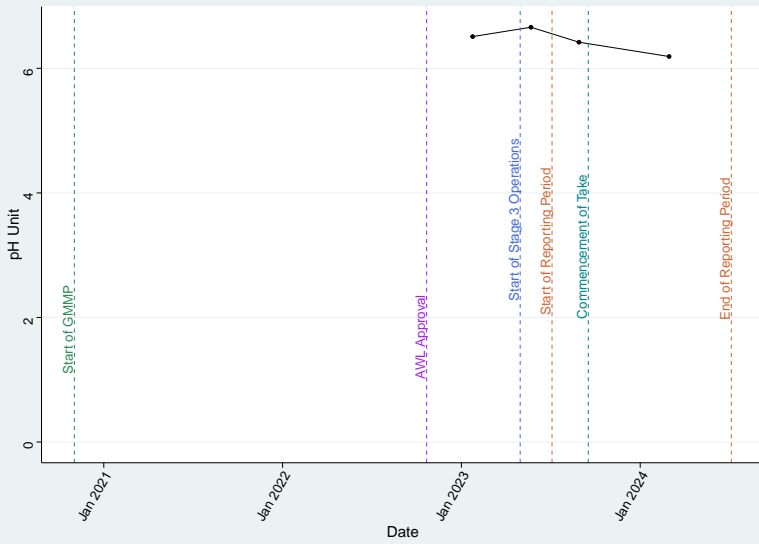
Bore 41P (Marburg Sandstone) – TKN

Mann Kendall Trend Test | $\tau = 0.183$ | p -value = 1 | No trend



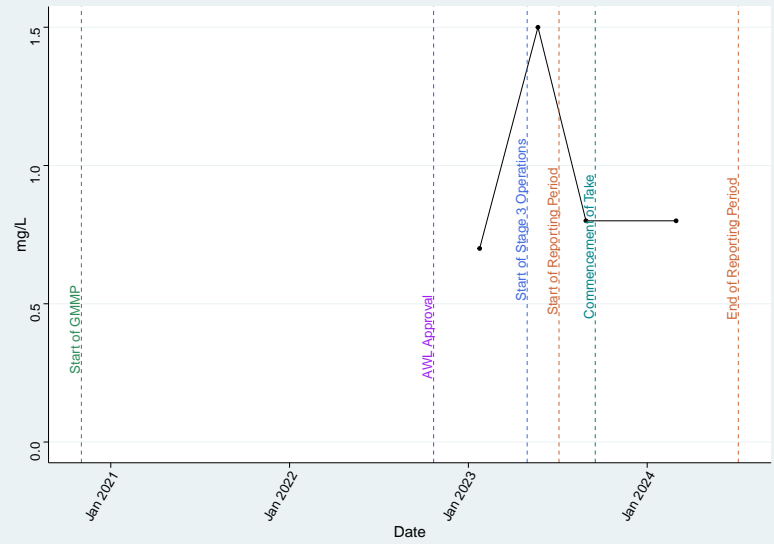
Bore 41P (Marburg Sandstone) – pH_Field

Mann Kendall Trend Test | $\tau = -0.667$ | $p\text{-value} = 0.308$ | No trend



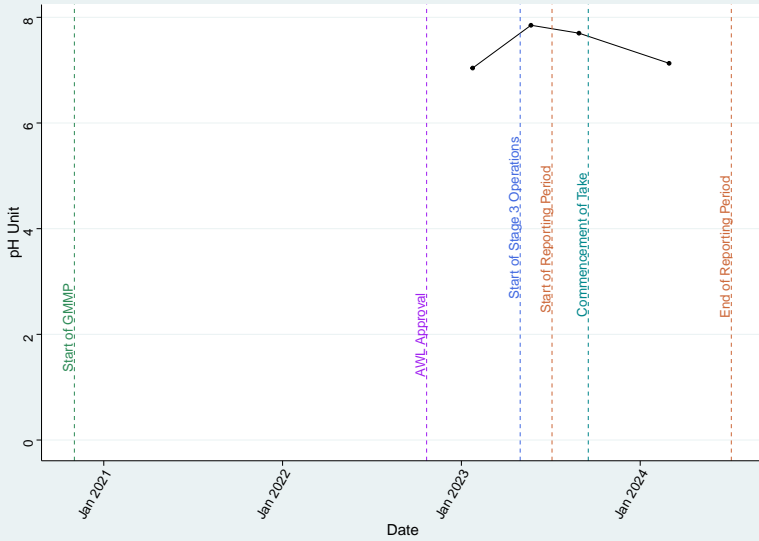
Bore 41P (Marburg Sandstone) – Total_N

Mann Kendall Trend Test | $\tau = 0.183$ | $p\text{-value} = 1$ | No trend



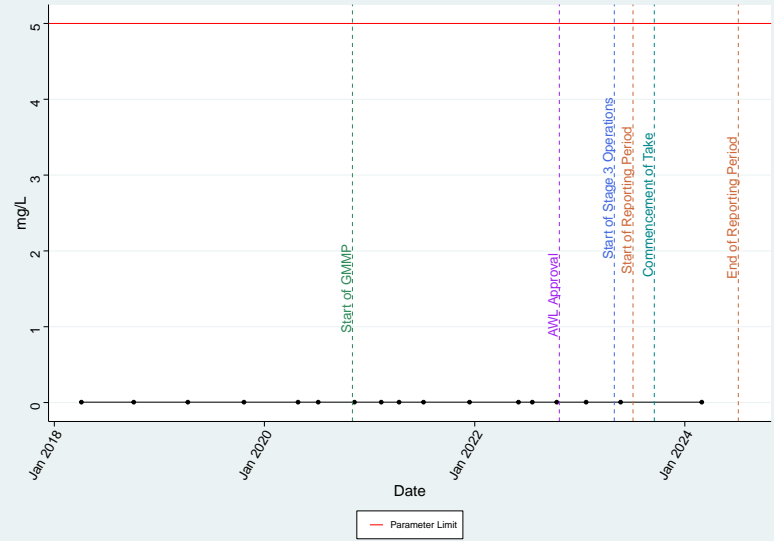
Bore 41P (Marburg Sandstone) – pH_Lab

Mann Kendall Trend Test | $\tau = 0$ | $p\text{-value} = 1$ | No trend



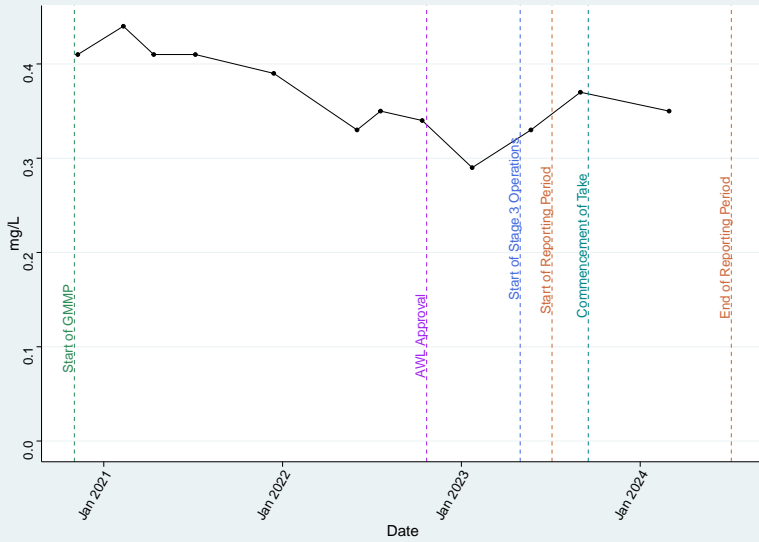
Bore 4517WB (Acland Coal Sequence) – Al_diss

Mann Kendall Trend Test | $\tau = 1$ | $p\text{-value} = 1$ | No trend



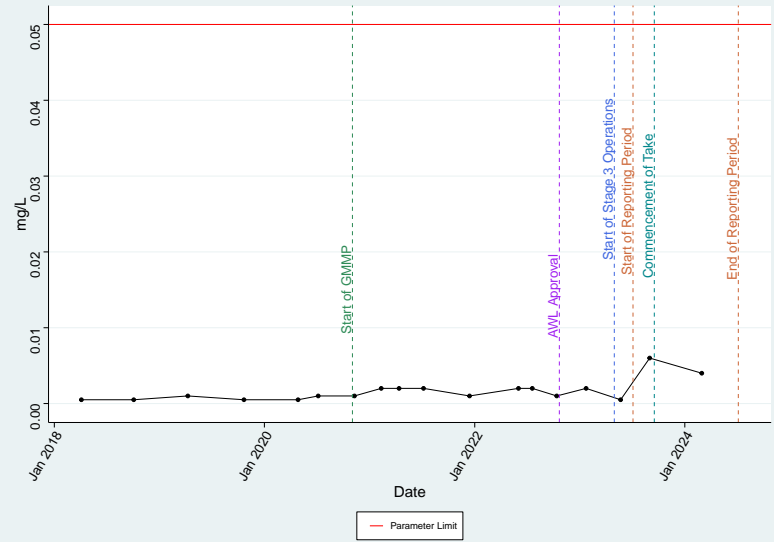
Bore 4517WB (Acland Coal Sequence) – Ammonia as N

Mann Kendall Trend Test | $\tau = -0.552$ | $p\text{-value} = 0.0181$ | Negative trend

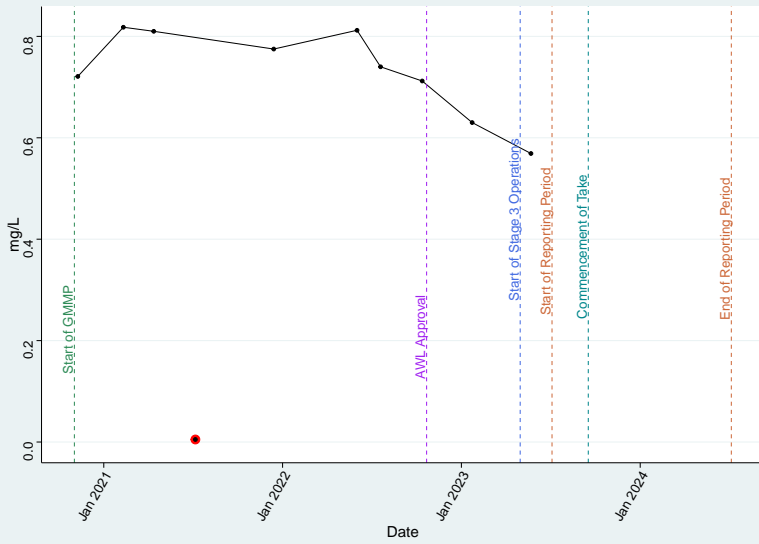


Bore 4517WB (Acland Coal Sequence) – As_diss

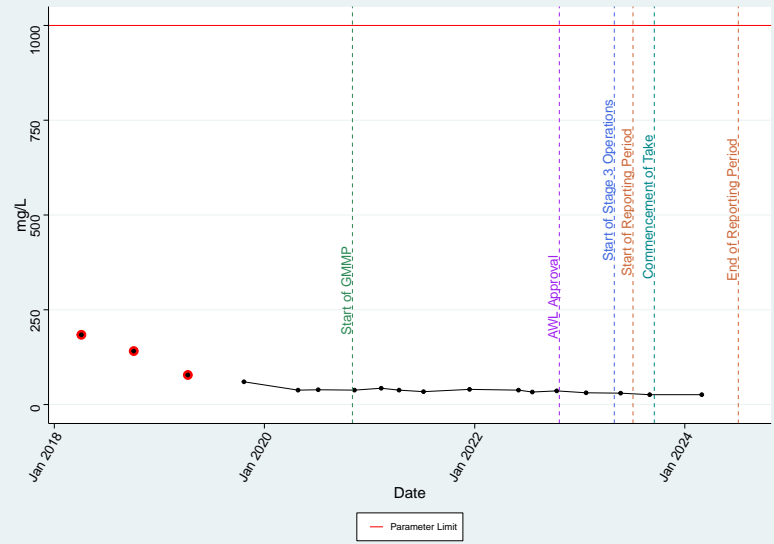
Mann Kendall Trend Test | $\tau = 0.551$ | $p\text{-value} = 0.00378$ | Positive trend



Bore 4517WB (Acland Coal Sequence) – Ba_diss
Mann Kendall Trend Test | $\tau = -0.422$ | $p\text{-value} = 0.107$ | No trend

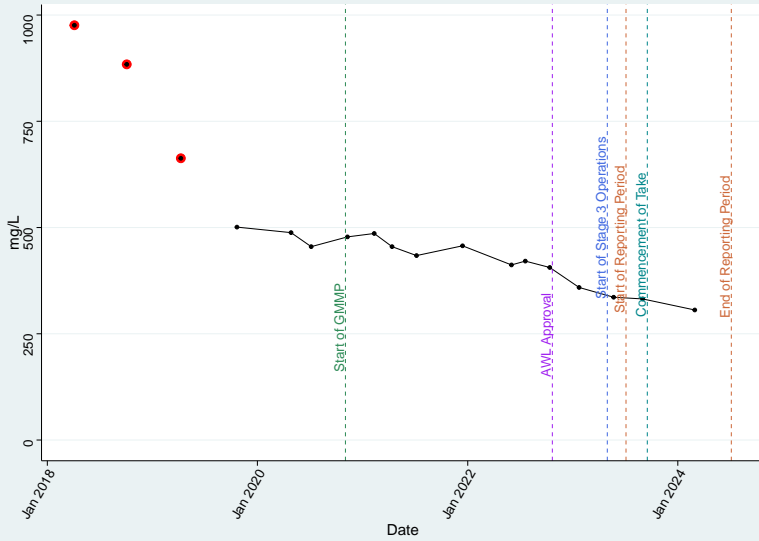


Bore 4517WB (Acland Coal Sequence) – Ca
Mann Kendall Trend Test | $\tau = -0.816$ | $p\text{-value} = 0.00000392$ | Negative trend



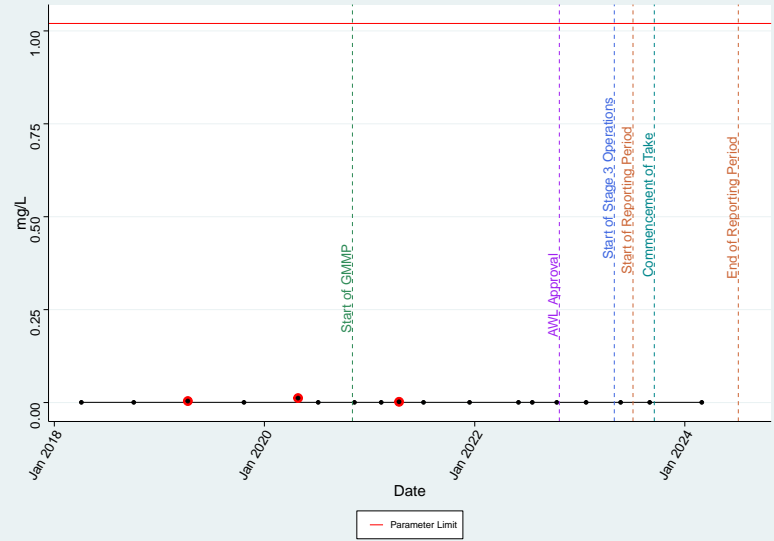
Bore 4517WB (Acland Coal Sequence) – Cl

Mann Kendall Trend Test | $\tau = -0.905$ | $p\text{-value} = 0.00000207$ | Negative trend



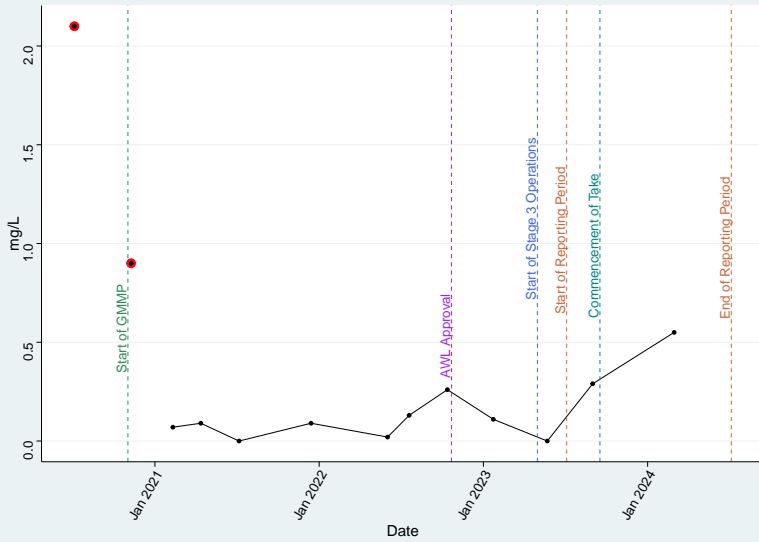
Bore 4517WB (Acland Coal Sequence) – Cu_diss

Mann Kendall Trend Test | $\tau = -0.28$ | $p\text{-value} = 0.176$ | No trend



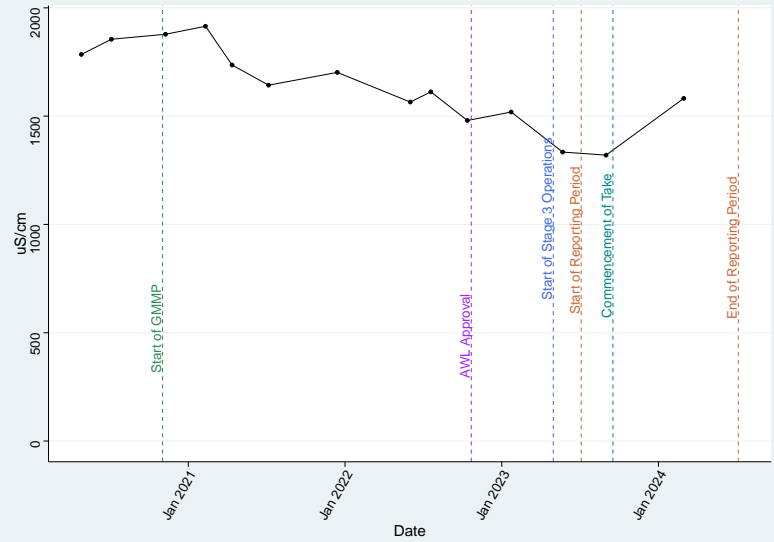
Bore 4517WB (Acland Coal Sequence) – DO_Field

Mann Kendall Trend Test | $\tau = 0.026$ | $p\text{-value} = 0.951$ | No trend



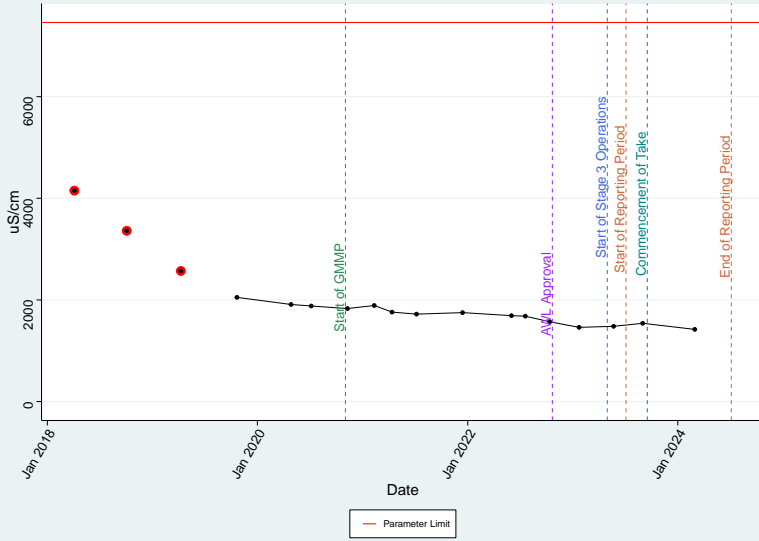
Bore 4517WB (Acland Coal Sequence) – EC_Field

Mann Kendall Trend Test | $\tau = -0.692$ | $p\text{-value} = 0.000688$ | Negative trend



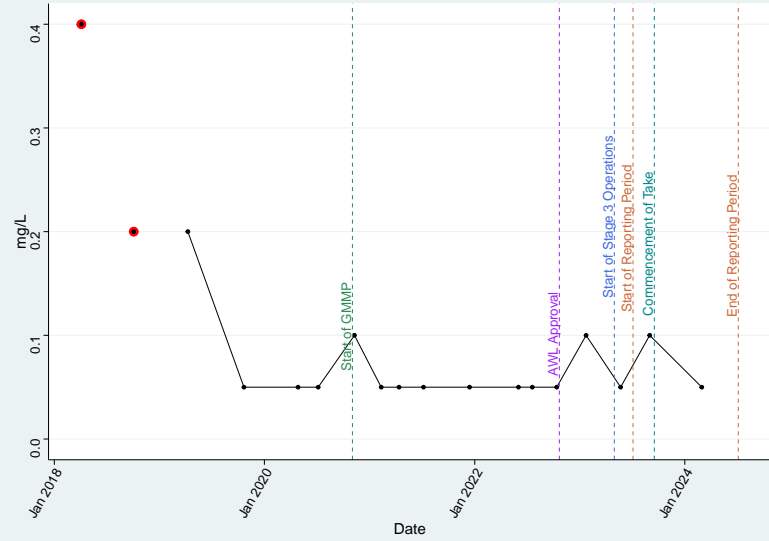
Bore 4517WB (Acland Coal Sequence) – EC_Lab

Mann Kendall Trend Test | $\tau = -0.922$ | $p\text{-value} = 0.00000114$ | Negative trend



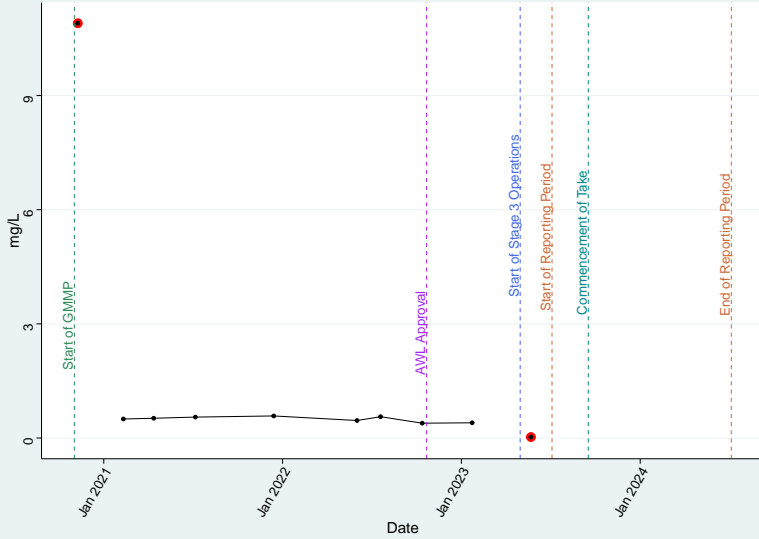
Bore 4517WB (Acland Coal Sequence) – F

Mann Kendall Trend Test | $\tau = -0.311$ | $p\text{-value} = 0.121$ | No trend



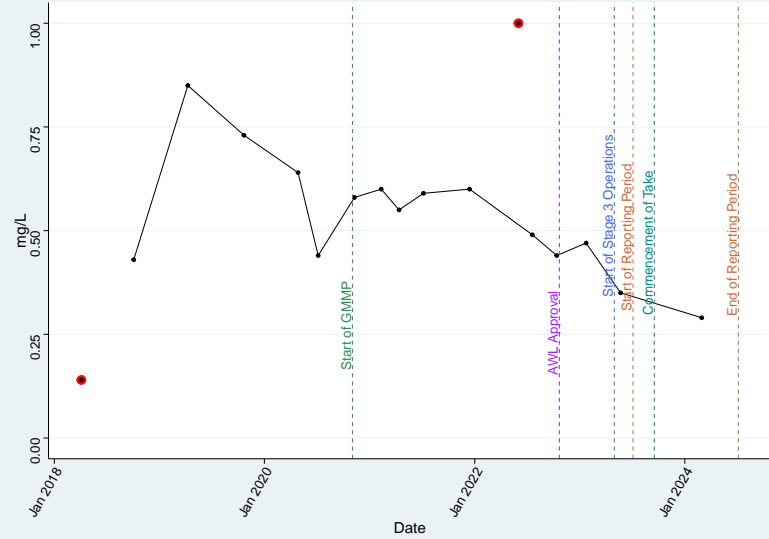
Bore 4517WB (Acland Coal Sequence) – Fe2

Mann Kendall Trend Test | $\tau = -0.511$ | $p\text{-value} = 0.0491$ | Negative trend



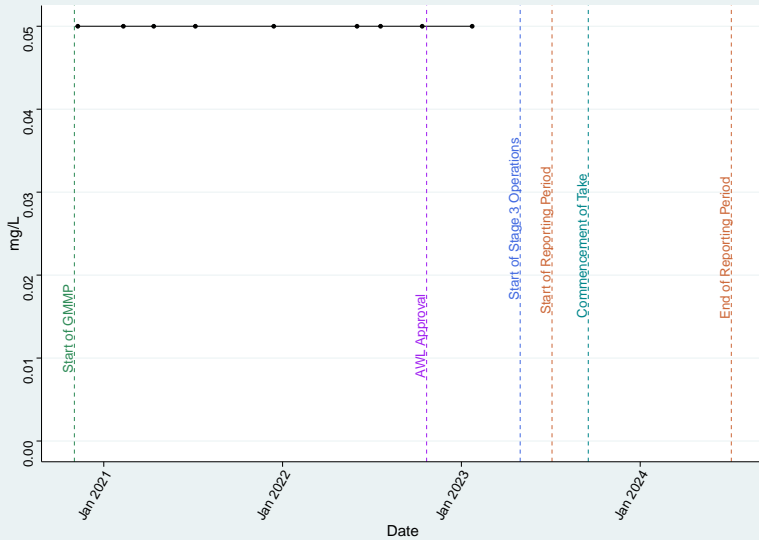
Bore 4517WB (Acland Coal Sequence) – Fe_diss

Mann Kendall Trend Test | $\tau = -0.222$ | $p\text{-value} = 0.231$ | No trend



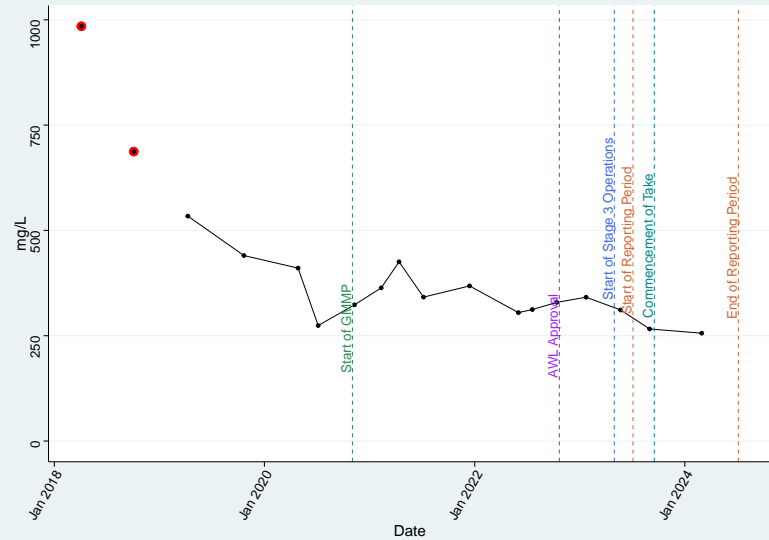
Bore 4517WB (Acland Coal Sequence) – H2S

Mann Kendall Trend Test | $\tau = 1$ | $p\text{-value} = 1$ | No trend



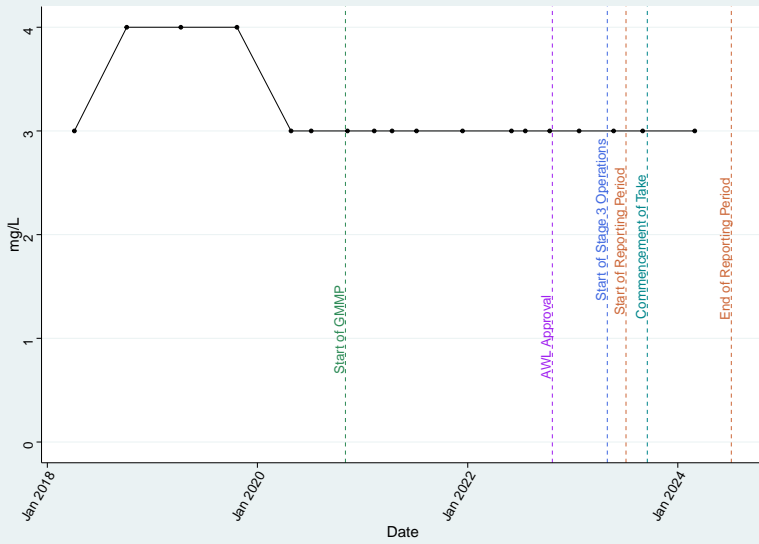
Bore 4517WB (Acland Coal Sequence) – HCO3

Mann Kendall Trend Test | $\tau = -0.647$ | $p\text{-value} = 0.000206$ | Negative trend



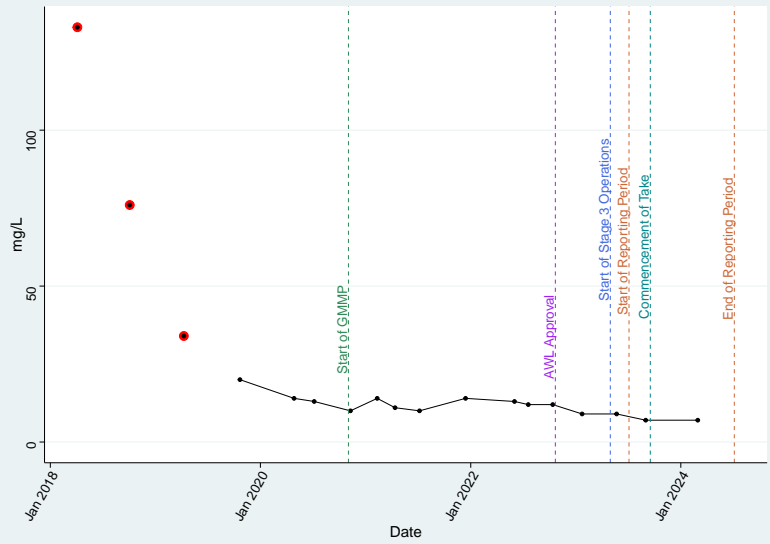
Bore 4517WB (Acland Coal Sequence) – K

Mann Kendall Trend Test | $\tau = -0.47$ | $p\text{-value} = 0.0244$ | Negative trend



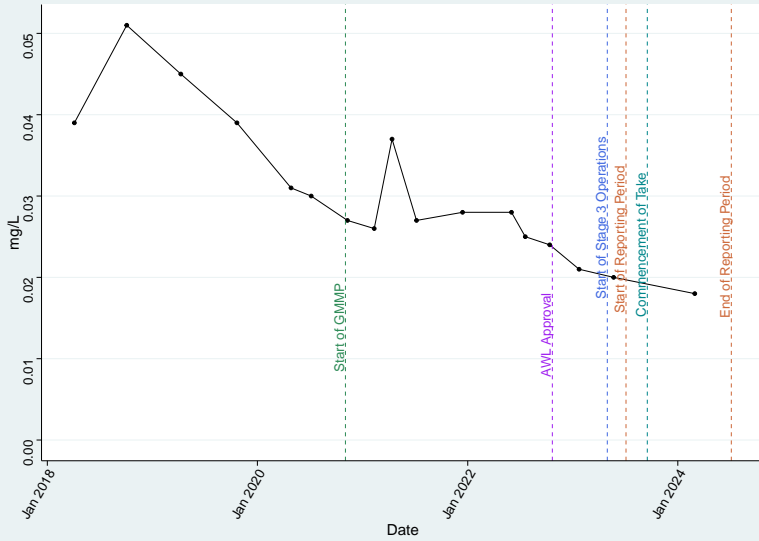
Bore 4517WB (Acland Coal Sequence) – Mg

Mann Kendall Trend Test | $\tau = -0.759$ | $p\text{-value} = 0.0000196$ | Negative trend



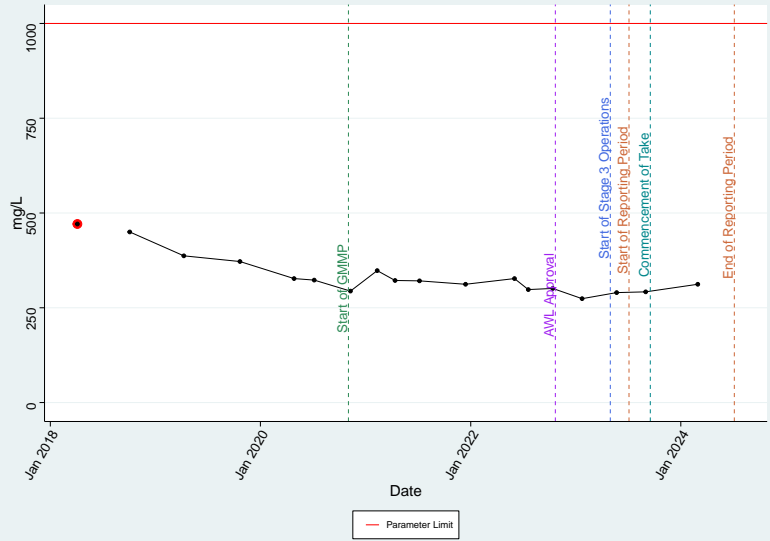
Bore 4517WB (Acland Coal Sequence) – Mn_diss

Mann Kendall Trend Test | $\tau = -0.796$ | $p\text{-value} = 0.000012$ | Negative trend



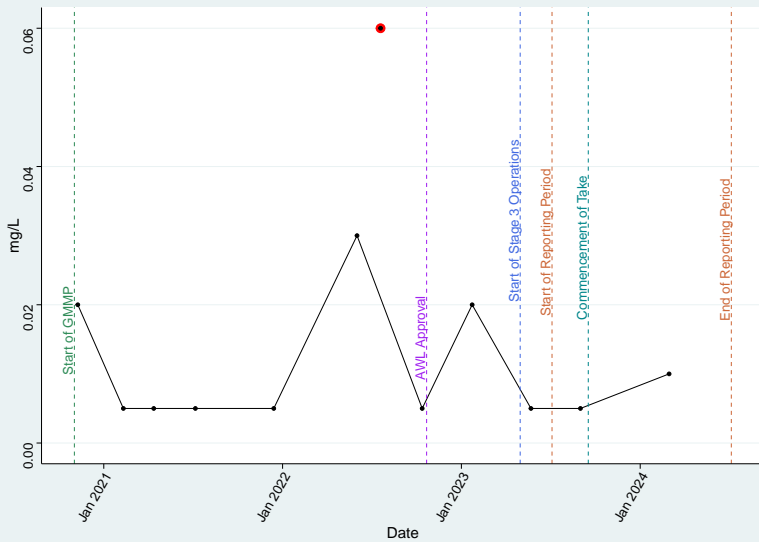
Bore 4517WB (Acland Coal Sequence) – Na

Mann Kendall Trend Test | $\tau = -0.691$ | $p\text{-value} = 0.0000798$ | Negative trend



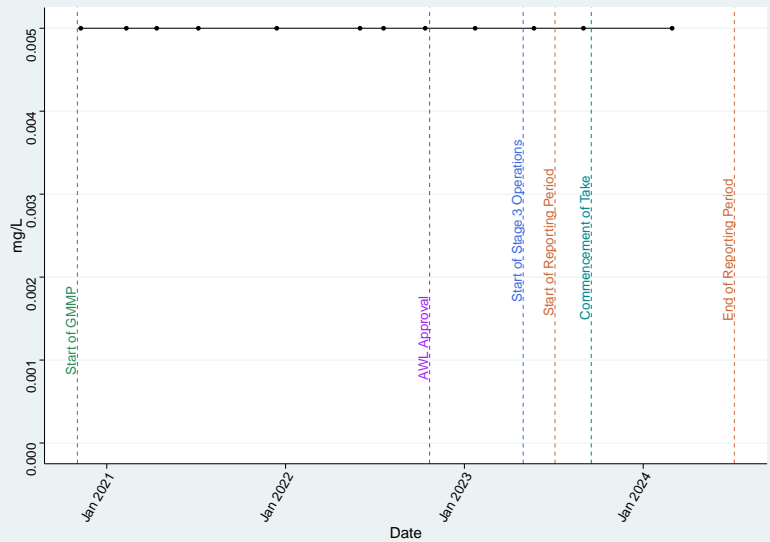
Bore 4517WB (Acland Coal Sequence) – Nitrate as N

Mann Kendall Trend Test | $\tau = 0.0371$ | $p\text{-value} = 0.938$ | No trend



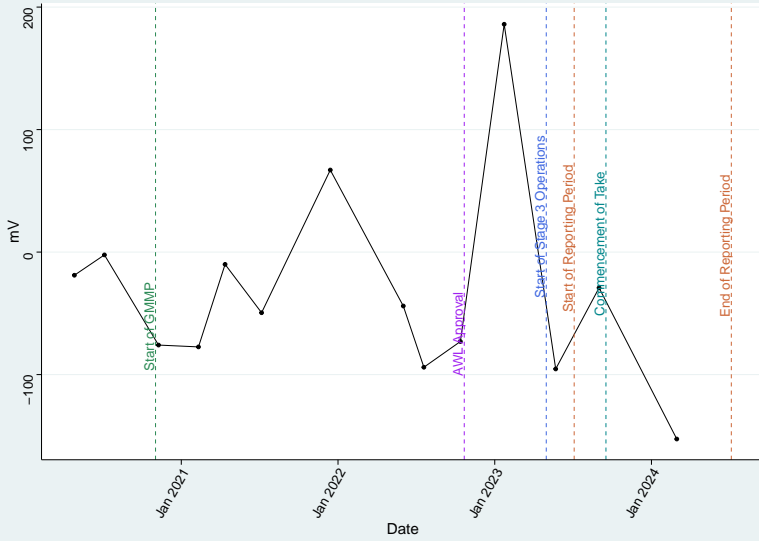
Bore 4517WB (Acland Coal Sequence) – Nitrite as N

Mann Kendall Trend Test | $\tau = 1$ | $p\text{-value} = 1$ | No trend



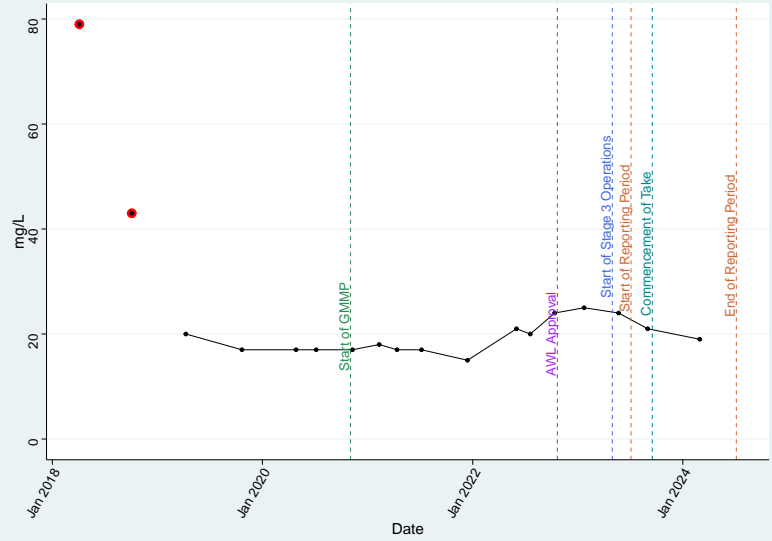
Bore 4517WB (Acland Coal Sequence) – Redox_Field

Mann Kendall Trend Test | $\tau = -0.231$ | $p\text{-value} = 0.274$ | No trend



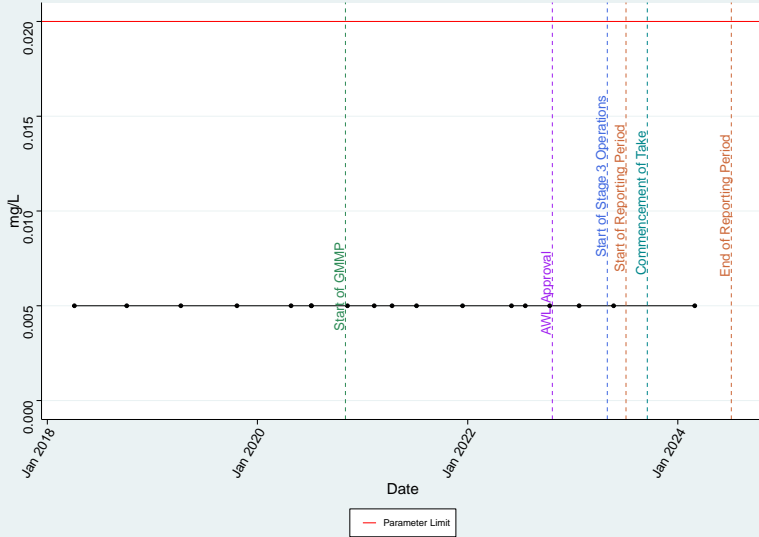
Bore 4517WB (Acland Coal Sequence) – SO4

Mann Kendall Trend Test | $\tau = 0.0765$ | $p\text{-value} = 0.698$ | No trend



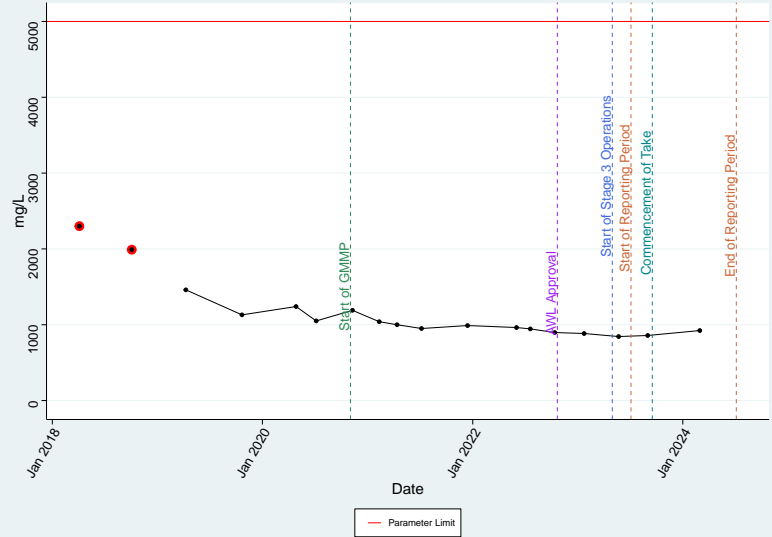
Bore 4517WB (Acland Coal Sequence) – Se_diss

Mann Kendall Trend Test | $\tau = 1$ | $p\text{-value} = 1$ | No trend



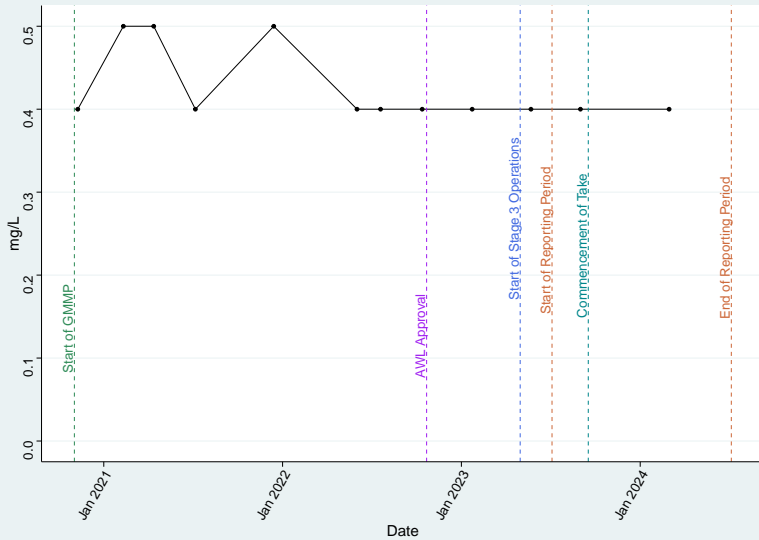
Bore 4517WB (Acland Coal Sequence) – TDS

Mann Kendall Trend Test | $\tau = -0.869$ | $p\text{-value} = 0.000000574$ | Negative trend



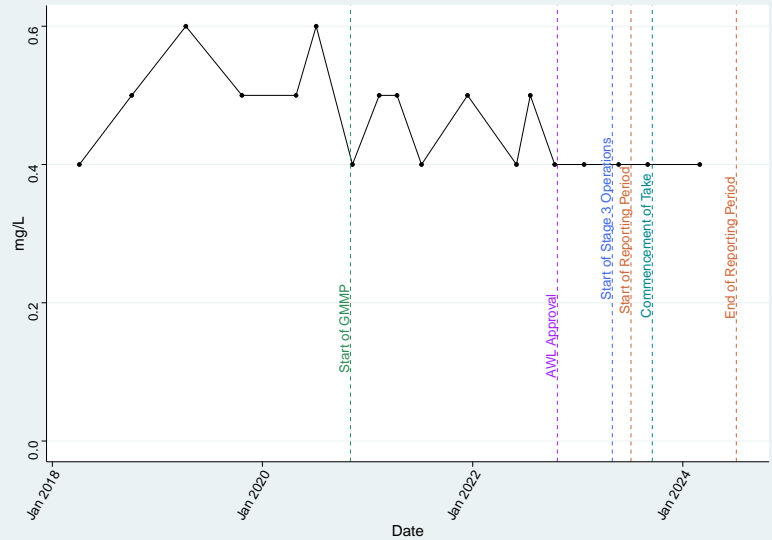
Bore 4517WB (Acland Coal Sequence) – TKN

Mann Kendall Trend Test | $\tau = -0.45$ | $p\text{-value} = 0.0961$ | No trend



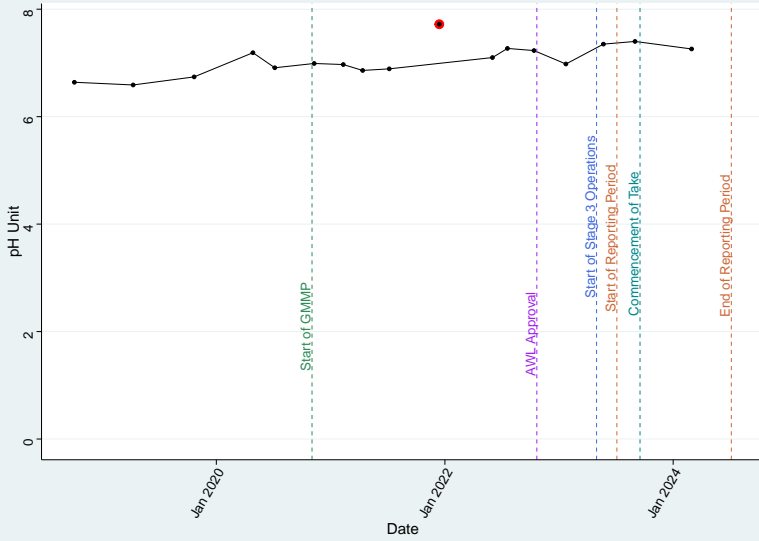
Bore 4517WB (Acland Coal Sequence) – Total_N

Mann Kendall Trend Test | $\tau = -0.456$ | $p\text{-value} = 0.0225$ | Negative trend



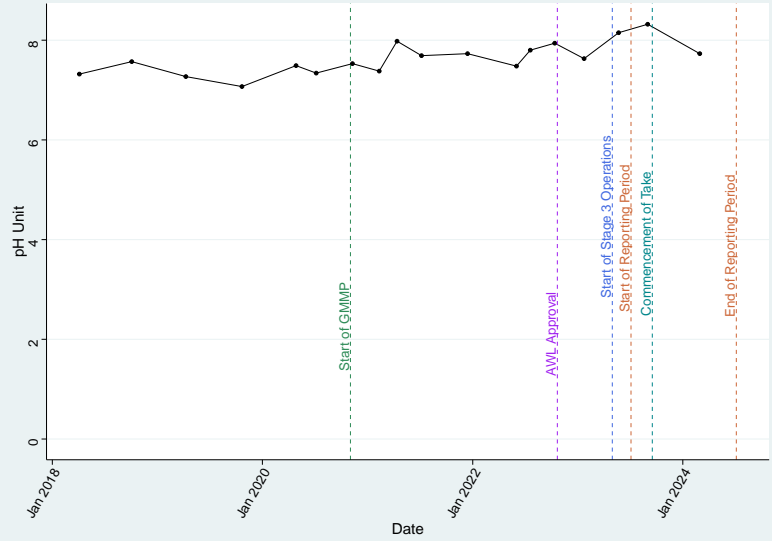
Bore 4517WB (Acland Coal Sequence) – pH_Field

Mann Kendall Trend Test | $\tau = 0.559$ | $p\text{-value} = 0.00201$ | Positive trend



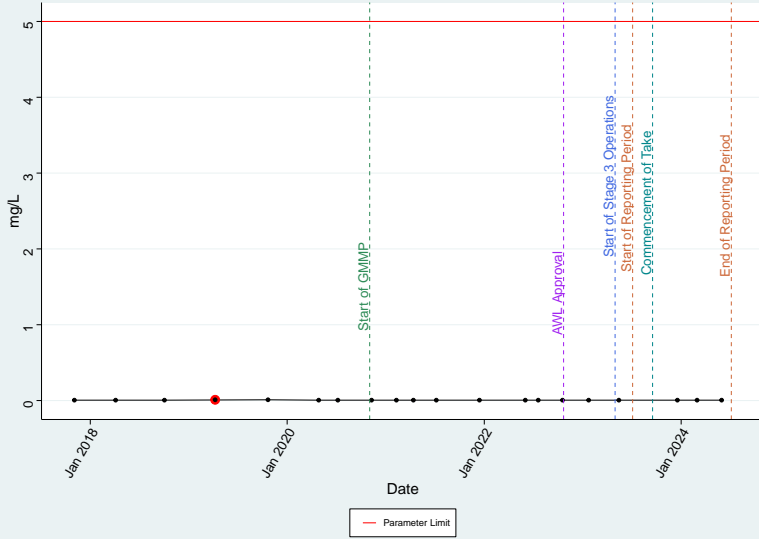
Bore 4517WB (Acland Coal Sequence) – pH_Lab

Mann Kendall Trend Test | $\tau = 0.577$ | $p\text{-value} = 0.000975$ | Positive trend



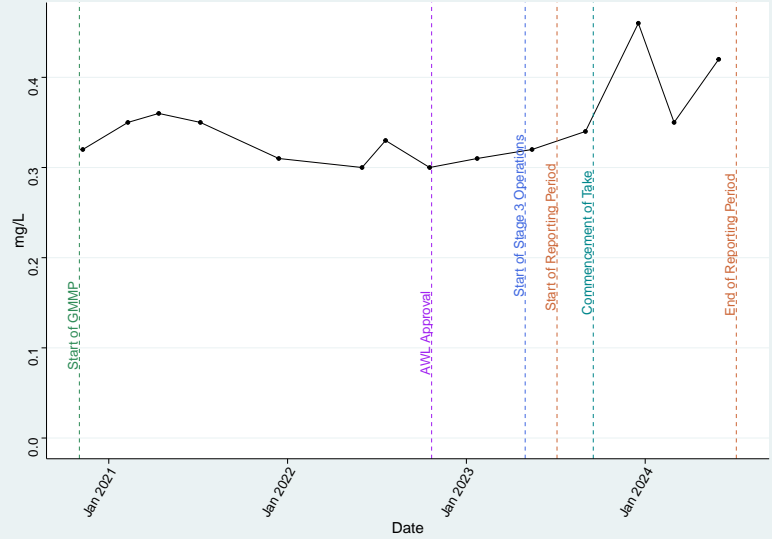
Bore 4518WB (Acland Coal Sequence) – Al_diss

Mann Kendall Trend Test | $\tau = -0.29$ | $p\text{-value} = 0.147$ | No trend



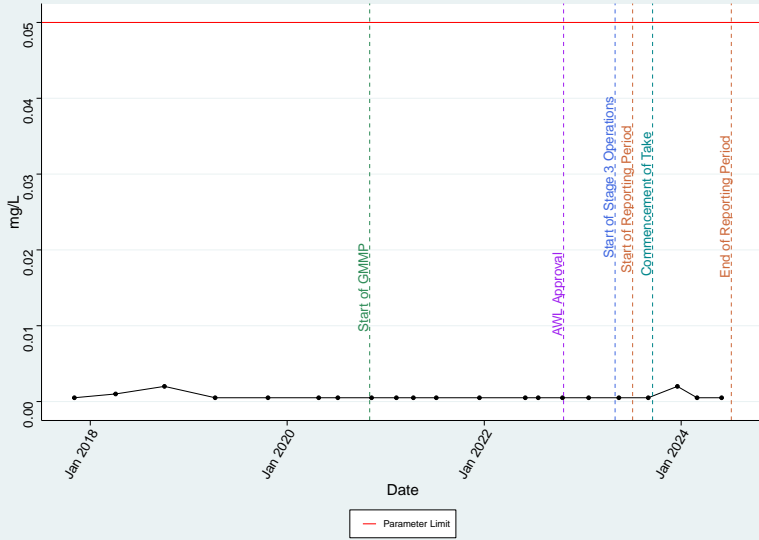
Bore 4518WB (Acland Coal Sequence) – Ammonia as N

Mann Kendall Trend Test | $\tau = 0.193$ | $p\text{-value} = 0.376$ | No trend



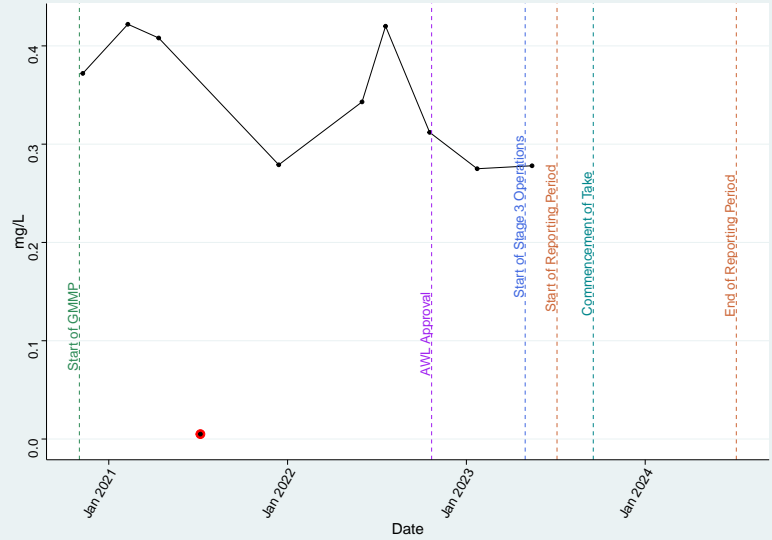
Bore 4518WB (Acland Coal Sequence) – As_diss

Mann Kendall Trend Test | $\tau = -0.148$ | $p\text{-value} = 0.453$ | No trend



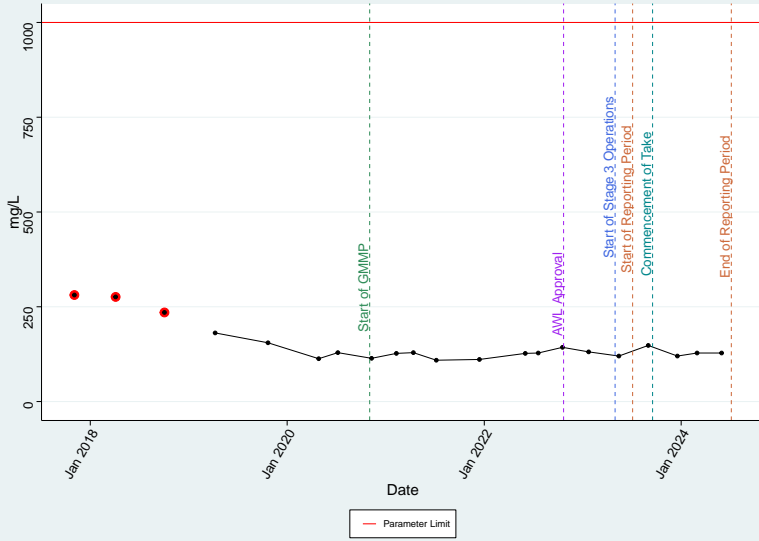
Bore 4518WB (Acland Coal Sequence) – Ba_diss

Mann Kendall Trend Test | $\tau = -0.333$ | $p\text{-value} = 0.21$ | No trend



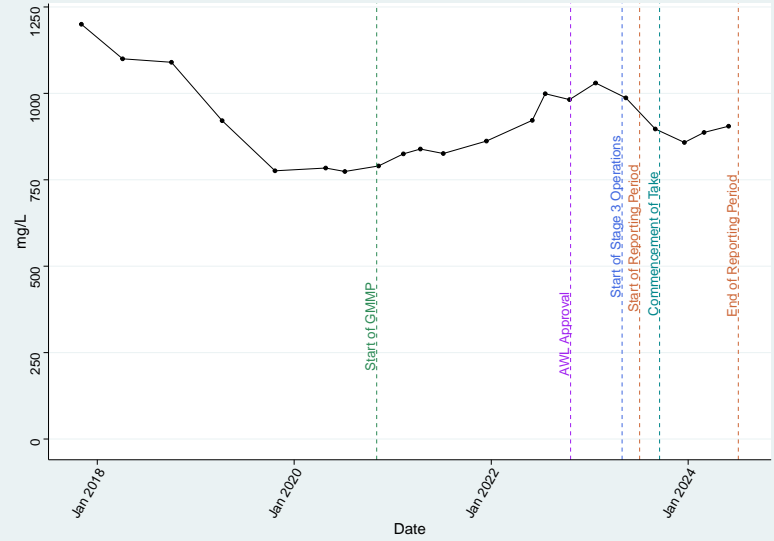
Bore 4518WB (Acland Coal Sequence) – Ca

Mann Kendall Trend Test | $\tau = -0.29$ | $p\text{-value} = 0.0739$ | No trend



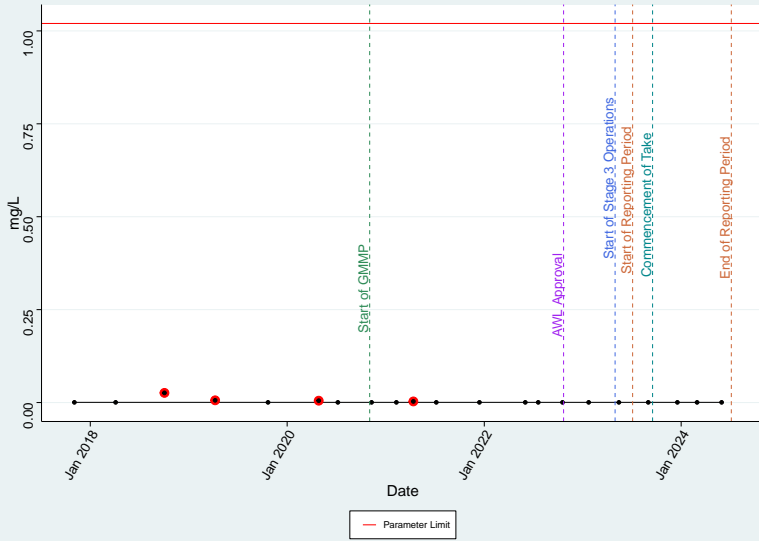
Bore 4518WB (Acland Coal Sequence) – Cl

Mann Kendall Trend Test | $\tau = 0.0667$ | $p\text{-value} = 0.695$ | No trend



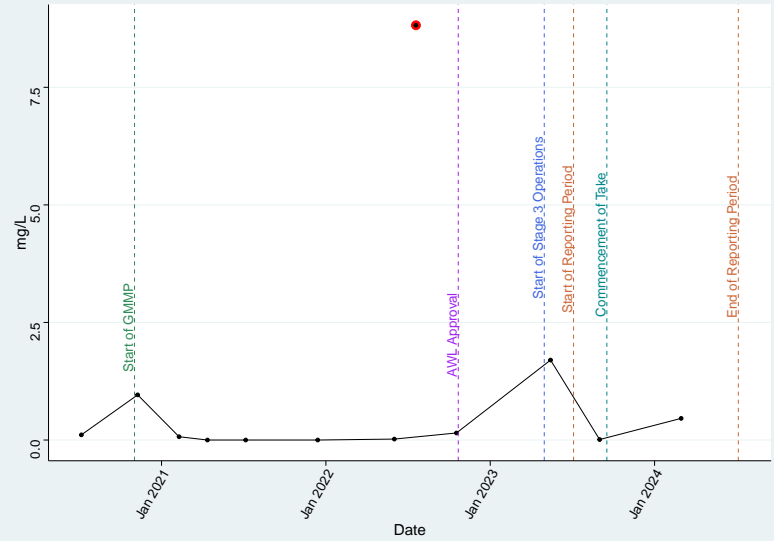
Bore 4518WB (Acland Coal Sequence) – Cu_diss

Mann Kendall Trend Test | $\tau = -0.385$ | $p\text{-value} = 0.0369$ | Negative trend



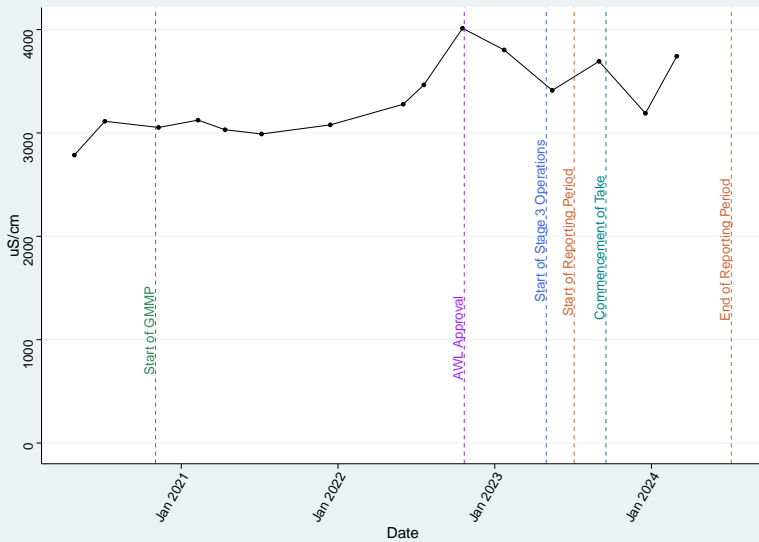
Bore 4518WB (Acland Coal Sequence) – DO_Field

Mann Kendall Trend Test | $\tau = 0.14$ | $p\text{-value} = 0.58$ | No trend



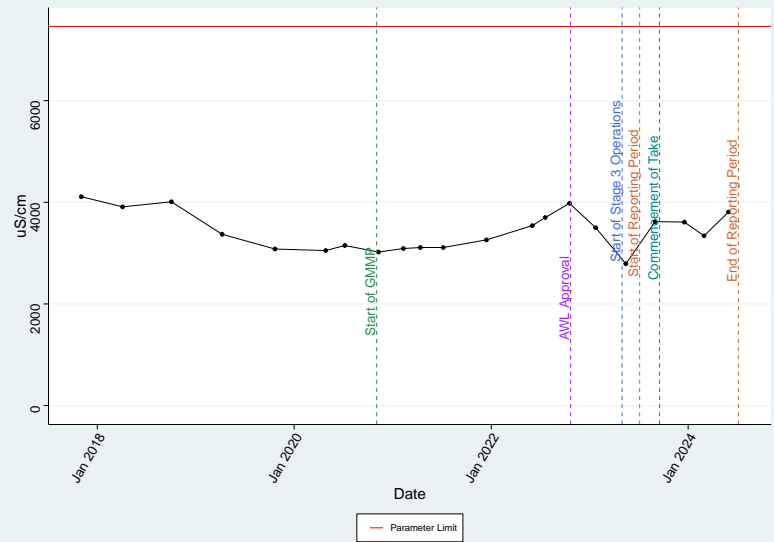
Bore 4518WB (Acland Coal Sequence) – EC_Field

Mann Kendall Trend Test | $\tau = 0.543$ | $p\text{-value} = 0.00558$ | Positive trend



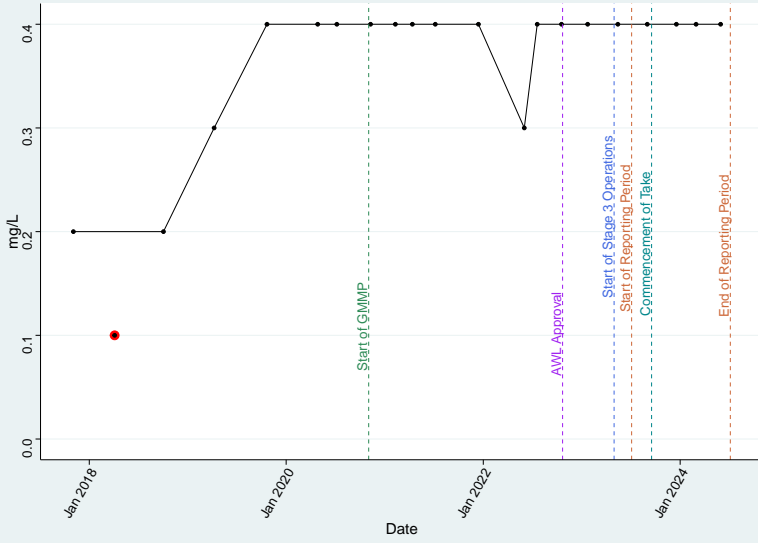
Bore 4518WB (Acland Coal Sequence) – EC_Lab

Mann Kendall Trend Test | $\tau = 0.0525$ | $p\text{-value} = 0.763$ | No trend



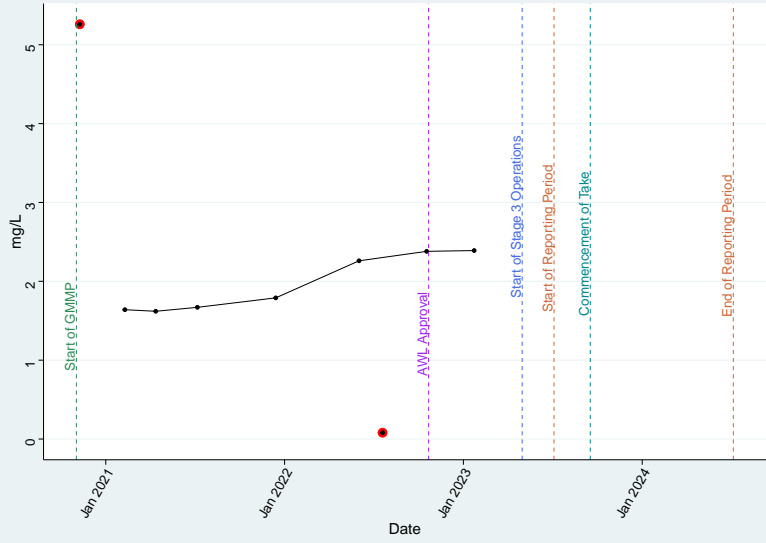
Bore 4518WB (Acland Coal Sequence) – F

Mann Kendall Trend Test | $\tau = 0.515$ | $p\text{-value} = 0.0049$ | Positive trend



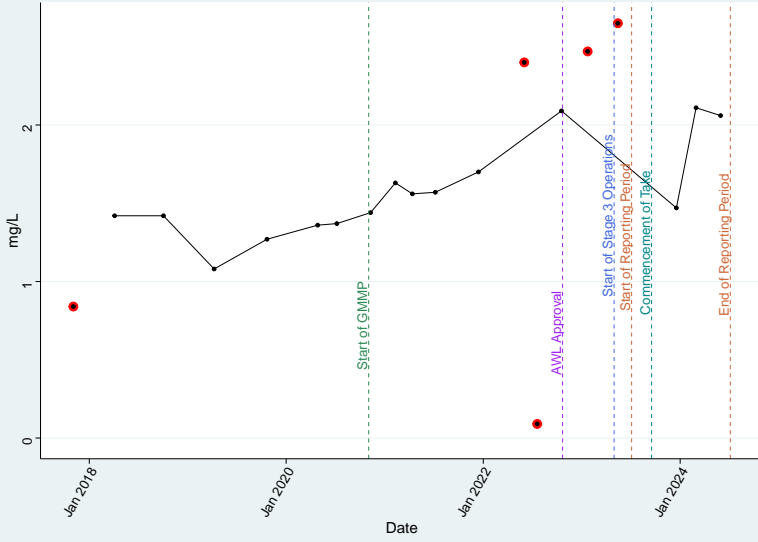
Bore 4518WB (Acland Coal Sequence) – Fe2

Mann Kendall Trend Test | $\tau = 0.222$ | $p\text{-value} = 0.466$ | No trend



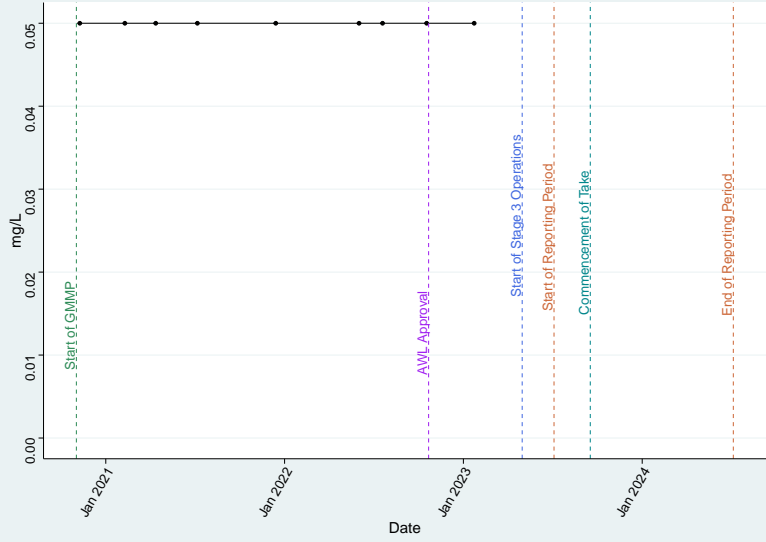
Bore 4518WB (Acland Coal Sequence) – Fe_diss

Mann Kendall Trend Test | $\tau = 0.575$ | $p\text{-value} = 0.000455$ | Positive trend



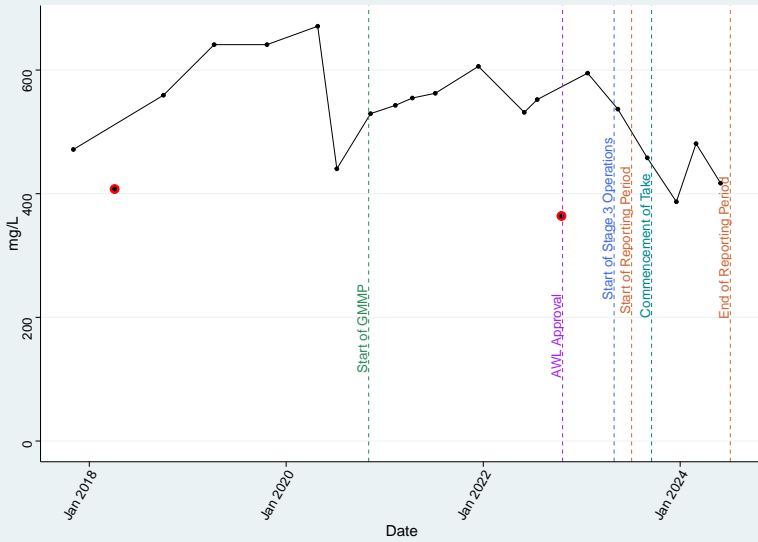
Bore 4518WB (Acland Coal Sequence) – H2S

Mann Kendall Trend Test | $\tau = 1$ | $p\text{-value} = 1$ | No trend



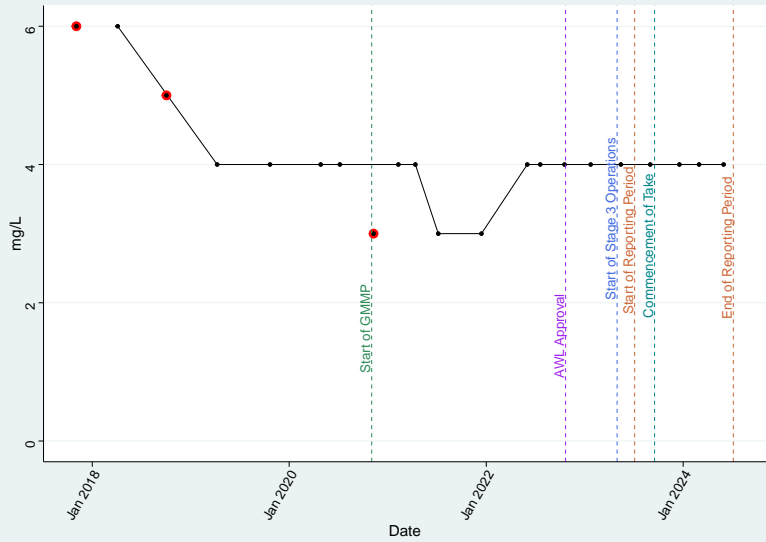
Bore 4518WB (Acland Coal Sequence) – HCO3

Mann Kendall Trend Test | $\tau = -0.224$ | $p\text{-value} = 0.165$ | No trend



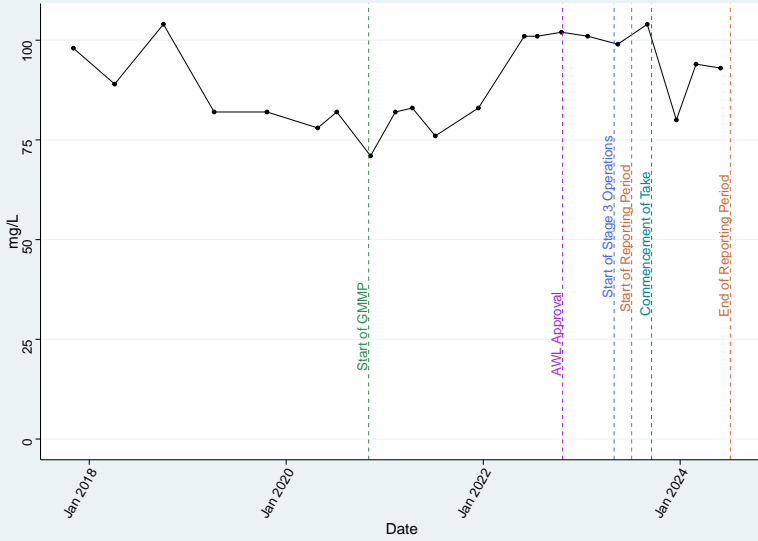
Bore 4518WB (Acland Coal Sequence) – K

Mann Kendall Trend Test | $\tau = -0.295$ | $p\text{-value} = 0.108$ | No trend



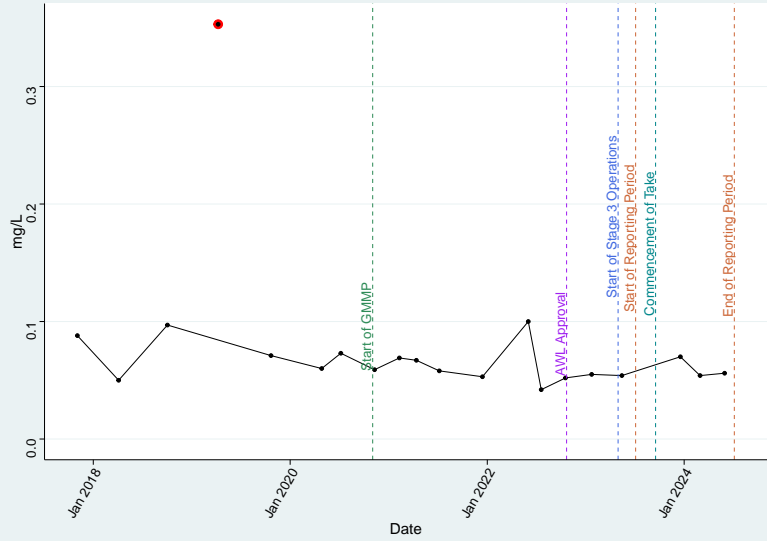
Bore 4518WB (Acland Coal Sequence) – Mg

Mann Kendall Trend Test | $\tau = 0.171$ | $p\text{-value} = 0.301$ | No trend



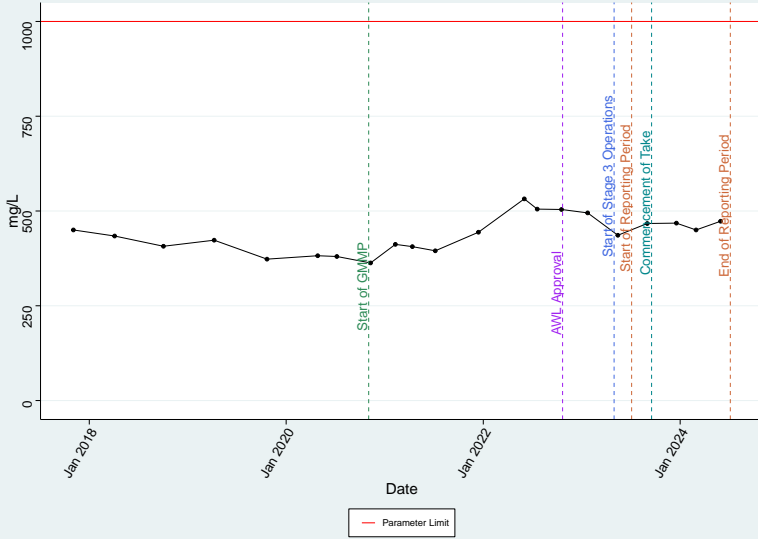
Bore 4518WB (Acland Coal Sequence) – Mn_diss

Mann Kendall Trend Test | $\tau = -0.343$ | $p\text{-value} = 0.0378$ | Negative trend



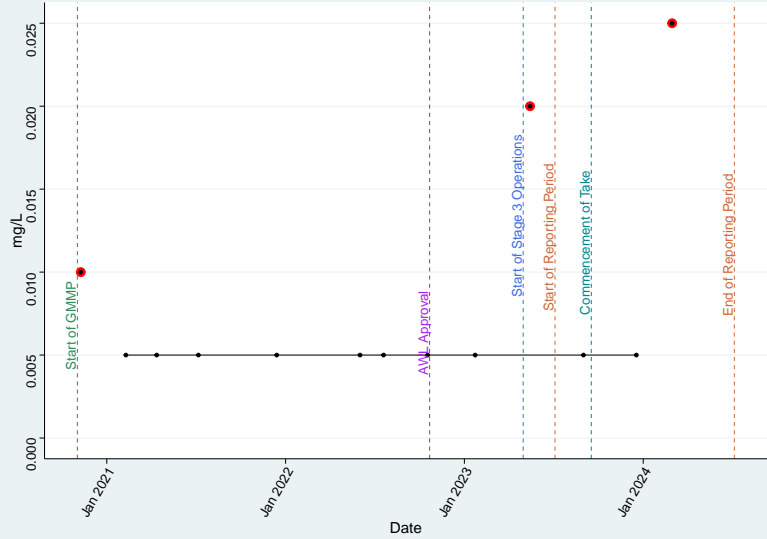
Bore 4518WB (Acland Coal Sequence) – Na

Mann Kendall Trend Test | $\tau = 0.329$ | $p\text{-value} = 0.0399$ | Positive trend



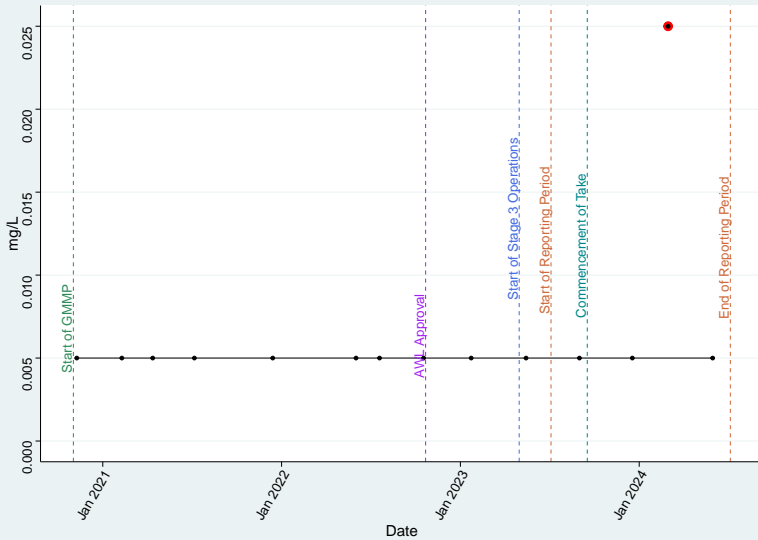
Bore 4518WB (Acland Coal Sequence) – Nitrate as N

Mann Kendall Trend Test | $\tau = 0.177$ | $p\text{-value} = 0.504$ | No trend



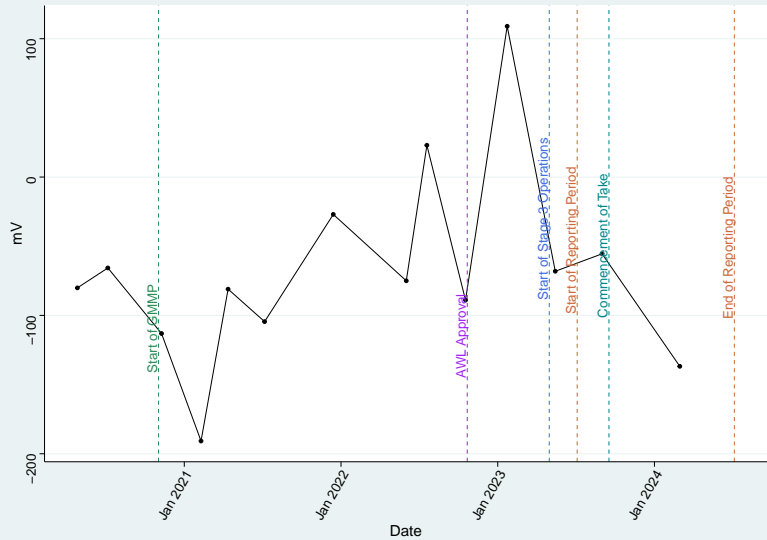
Bore 4518WB (Acland Coal Sequence) – Nitrite as N

Mann Kendall Trend Test | $\tau = 0.32$ | $p\text{-value} = 0.215$ | No trend



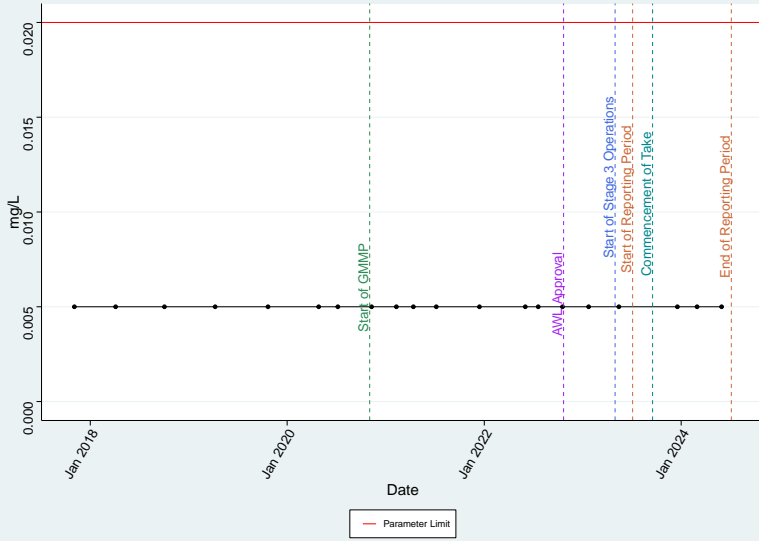
Bore 4518WB (Acland Coal Sequence) – Redox_Field

Mann Kendall Trend Test | $\tau = 0.187$ | $p\text{-value} = 0.381$ | No trend



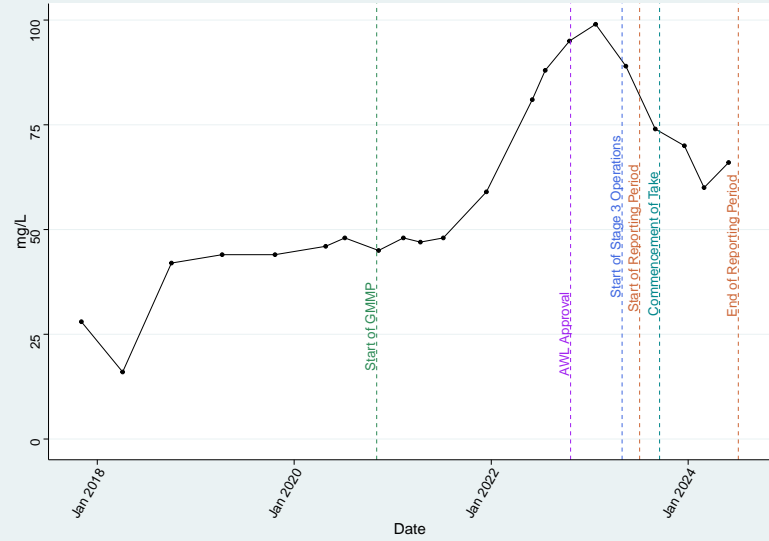
Bore 4518WB (Acland Coal Sequence) – Se_{diss}

Mann Kendall Trend Test | $\tau = 1$ | p-value = 1 | No trend



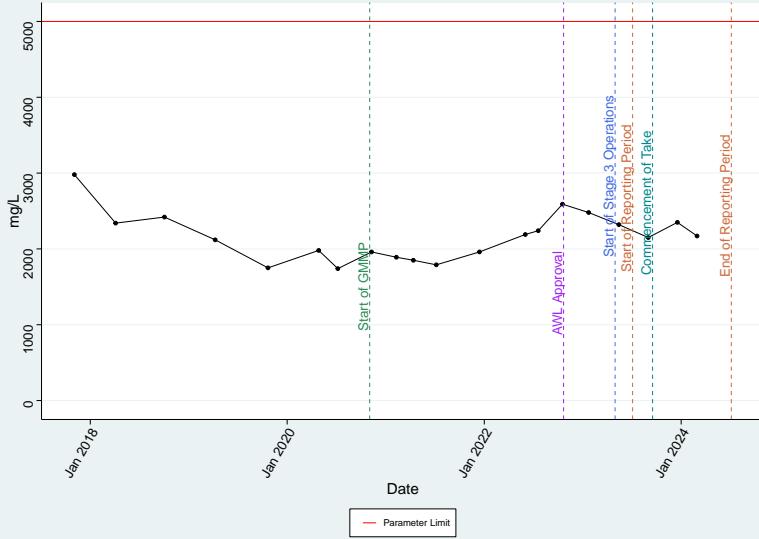
Bore 4518WB (Acland Coal Sequence) – SO₄

Mann Kendall Trend Test | $\tau = 0.683$ | p-value = 0.0000198 | Positive trend



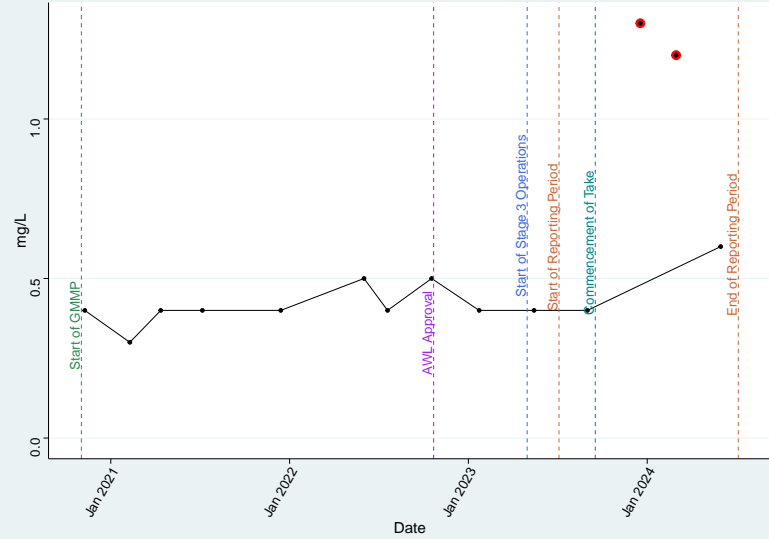
Bore 4518WB (Acland Coal Sequence) – TDS

Mann Kendall Trend Test | $\tau = 0.1$ | p-value = 0.559 | No trend



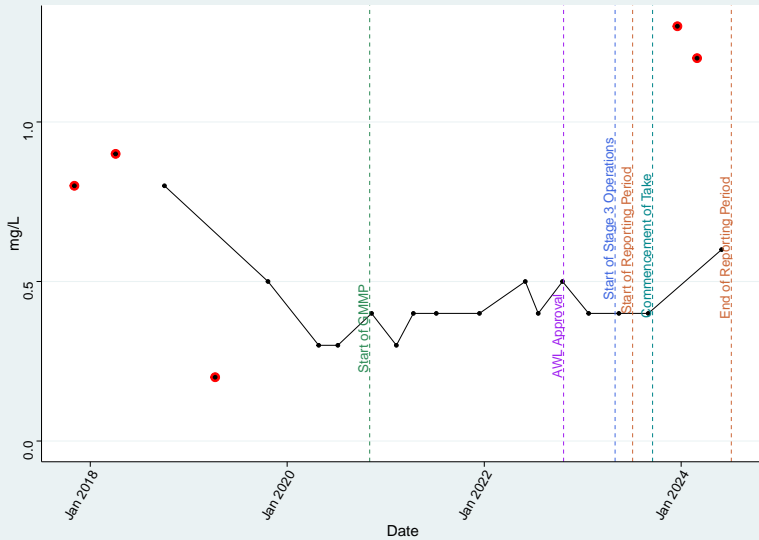
Bore 4518WB (Acland Coal Sequence) – TKN

Mann Kendall Trend Test | $\tau = 0.533$ | p-value = 0.0171 | Positive trend



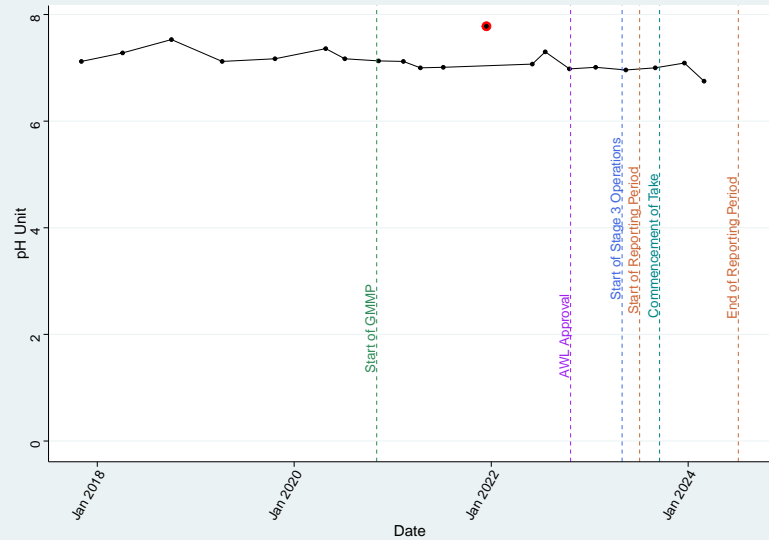
Bore 4518WB (Acland Coal Sequence) – Total_N

Mann Kendall Trend Test | $\tau = 0.172$ | p-value = 0.317 | No trend



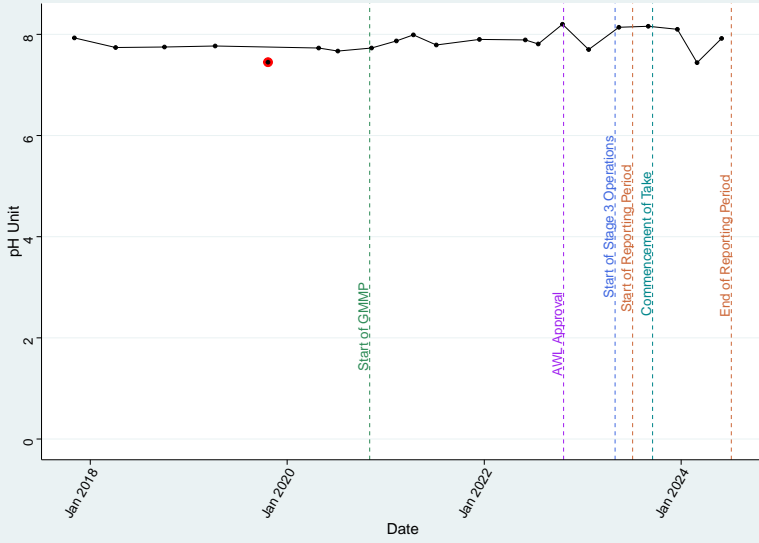
Bore 4518WB (Acland Coal Sequence) – pH_Field

Mann Kendall Trend Test | $\tau = -0.471$ | p-value = 0.00462 | Negative trend



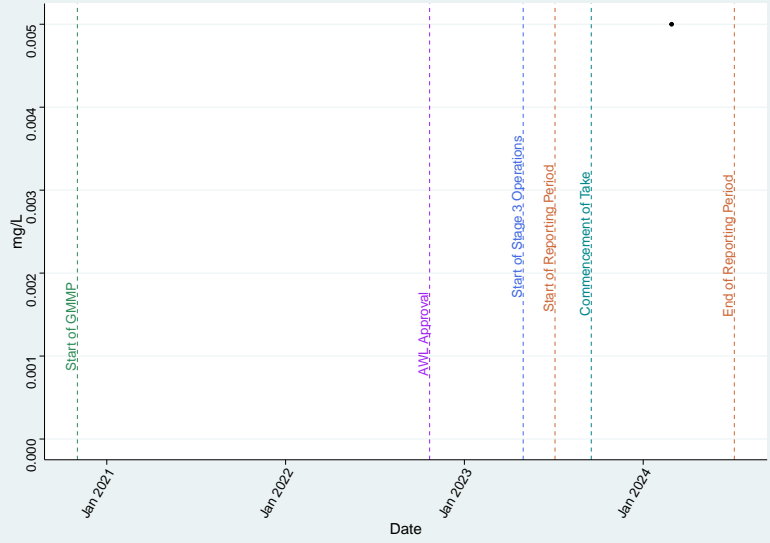
Bore 4518WB (Acland Coal Sequence) – pH_Lab

Mann Kendall Trend Test | $\tau = 0.263$ | $p\text{-value} = 0.103$ | No trend



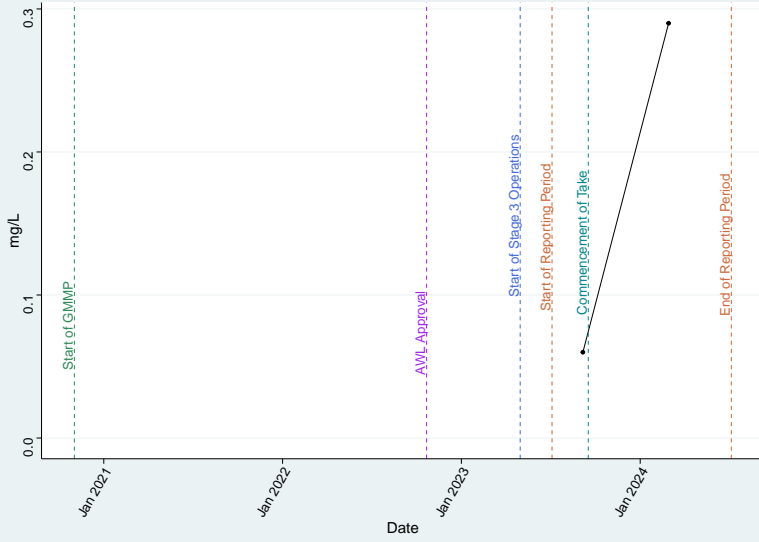
Bore 81PcR (Acland Coal Sequence) – Al_diss

Mann Kendall Trend Test | $\tau =$ Not enough data | $p\text{-value} =$ Not enough data | Not evaluated



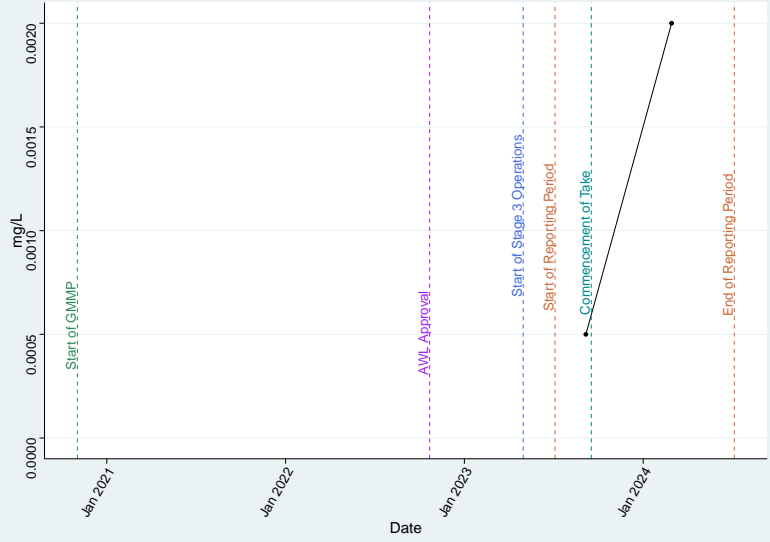
Bore 81PcR (Acland Coal Sequence) – Ammonia as N

Mann Kendall Trend Test | $\tau =$ Not enough data | $p\text{-value} =$ Not enough data | Not evaluated



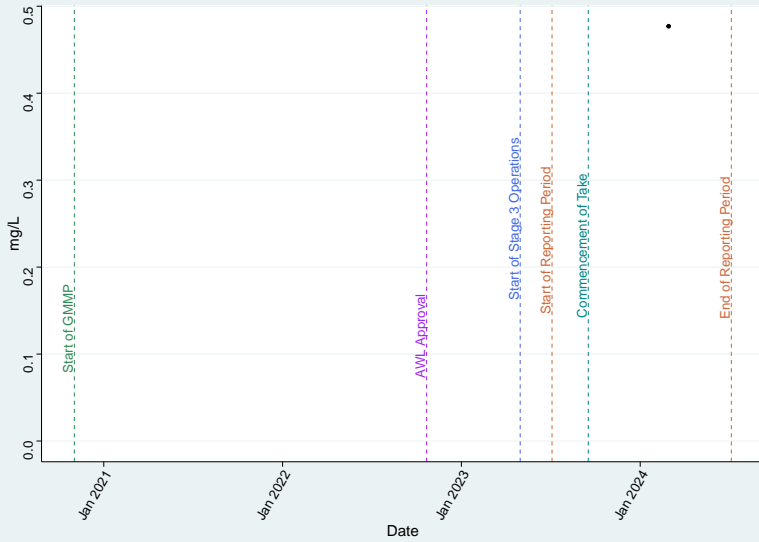
Bore 81PcR (Acland Coal Sequence) – As_diss

Mann Kendall Trend Test | $\tau =$ Not enough data | $p\text{-value} =$ Not enough data | Not evaluated



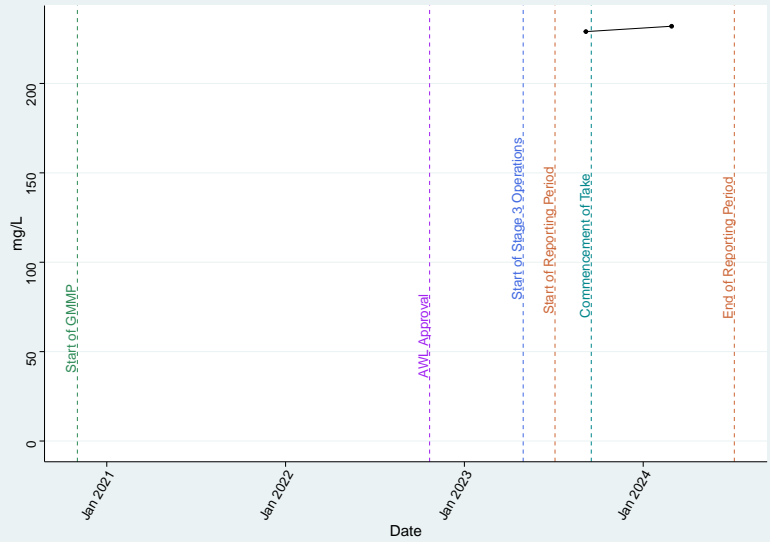
Bore 81PcR (Acland Coal Sequence) – Ba_diss

Mann Kendall Trend Test | $\tau =$ Not enough data | $p\text{-value} =$ Not enough data | Not evaluated



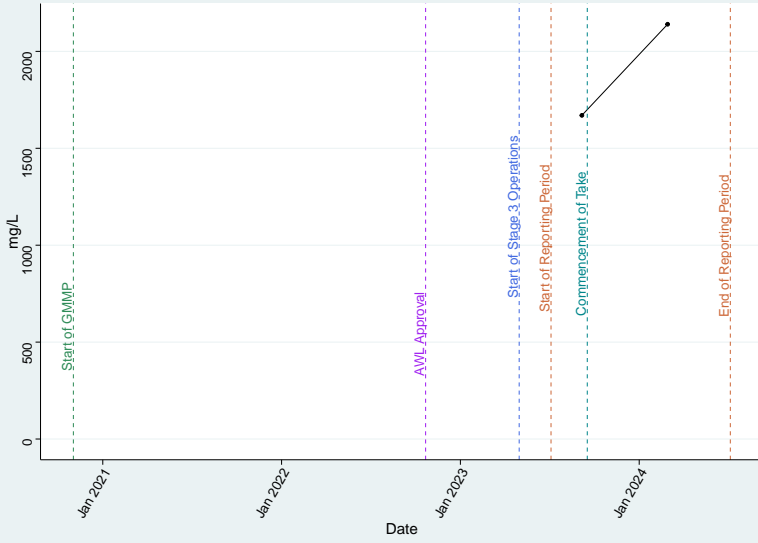
Bore 81PcR (Acland Coal Sequence) – Ca

Mann Kendall Trend Test | $\tau =$ Not enough data | $p\text{-value} =$ Not enough data | Not evaluated



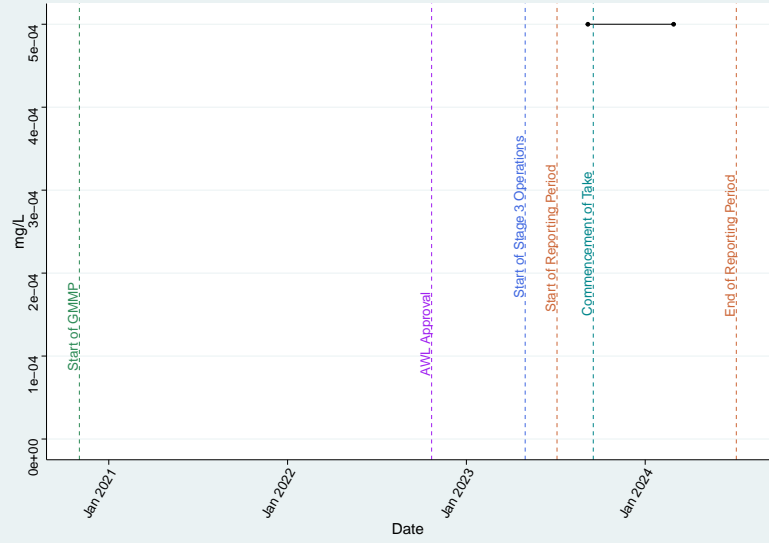
Bore 81PcR (Acland Coal Sequence) – Cl

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



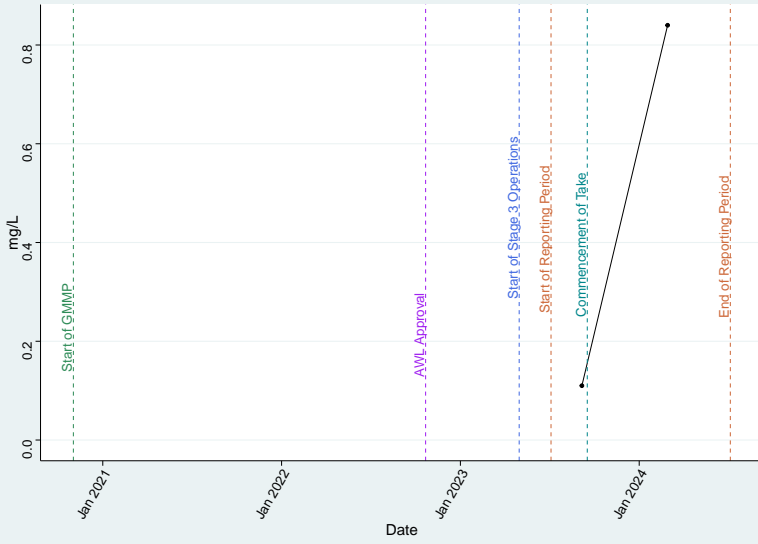
Bore 81PcR (Acland Coal Sequence) – Cu_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



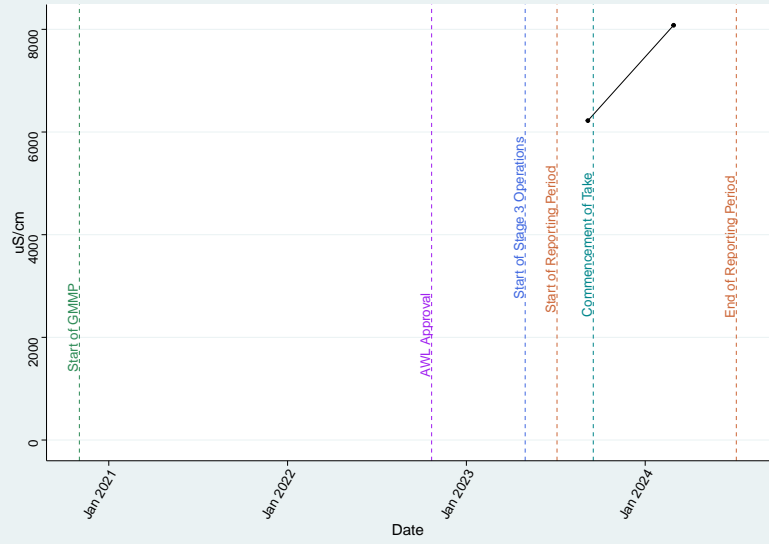
Bore 81PcR (Acland Coal Sequence) – DO_Field

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



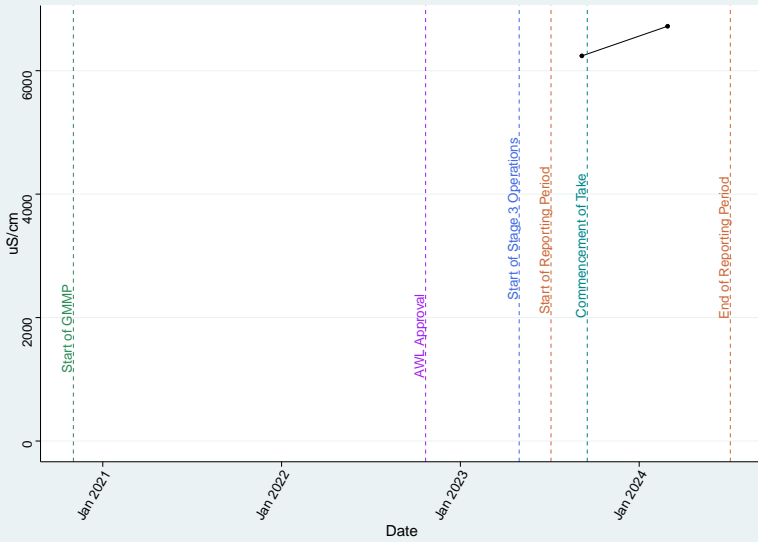
Bore 81PcR (Acland Coal Sequence) – EC_Field

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



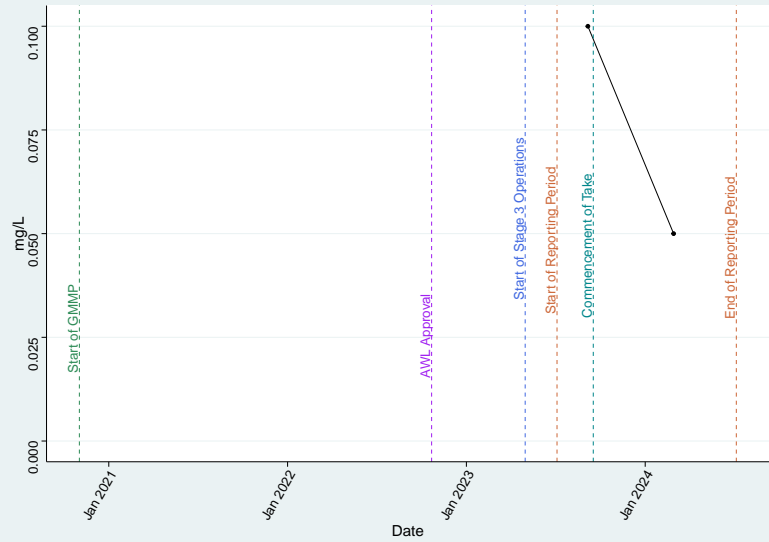
Bore 81PcR (Acland Coal Sequence) – EC_Lab

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



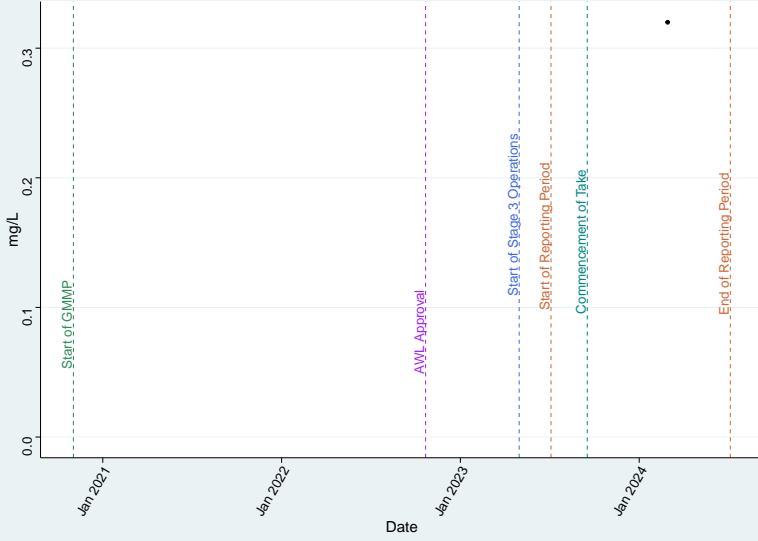
Bore 81PcR (Acland Coal Sequence) – F

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



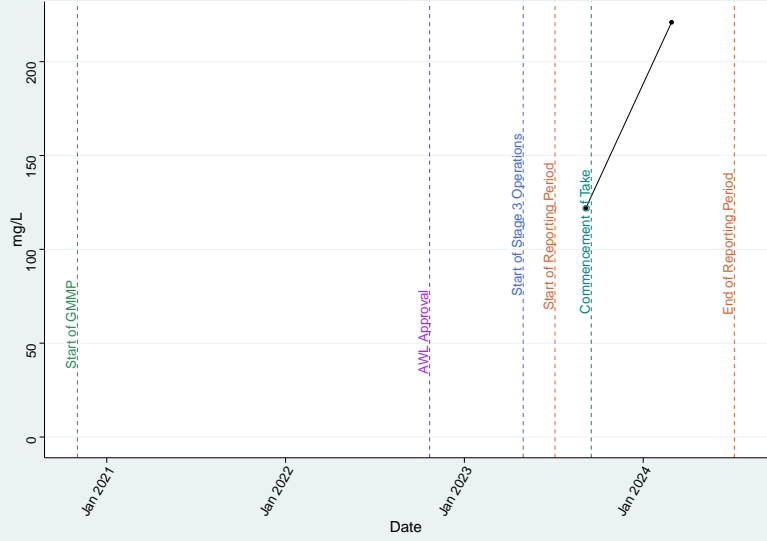
Bore 81PcR (Acland Coal Sequence) – Fe_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



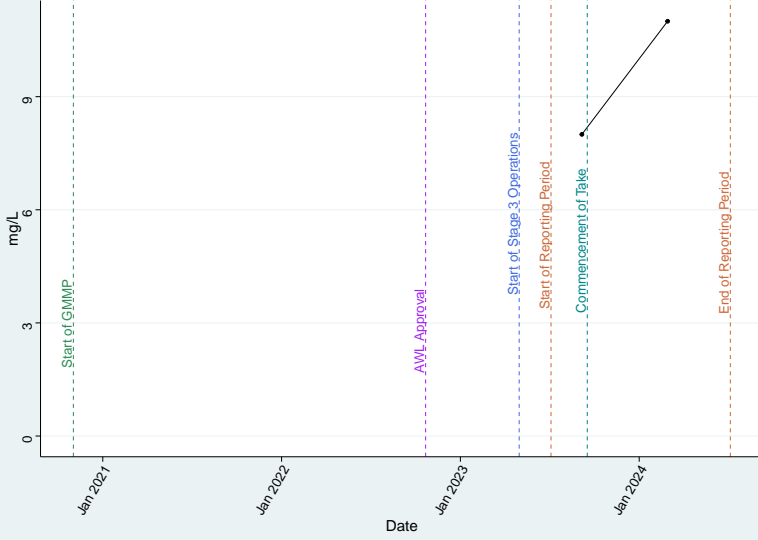
Bore 81PcR (Acland Coal Sequence) – HCO3

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



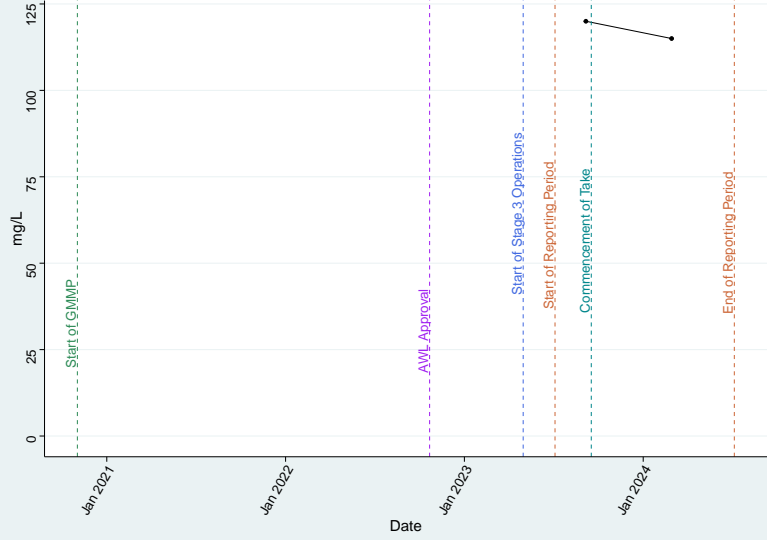
Bore 81PcR (Acland Coal Sequence) – K

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



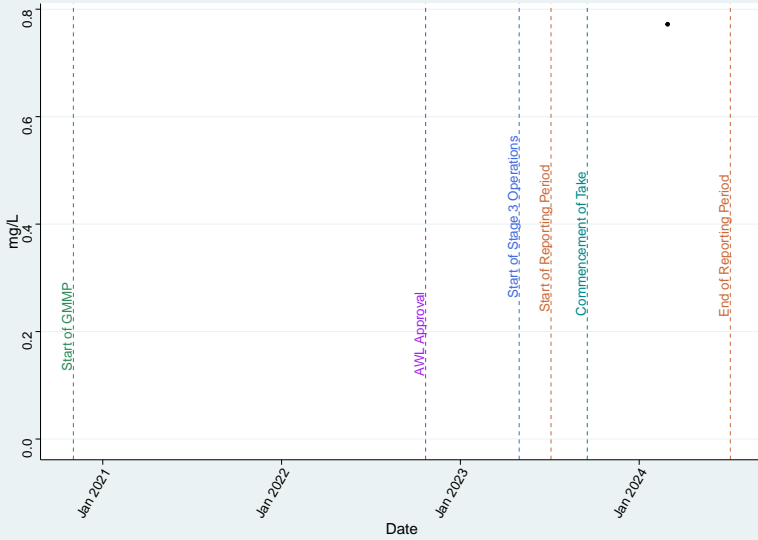
Bore 81PcR (Acland Coal Sequence) – Mg

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



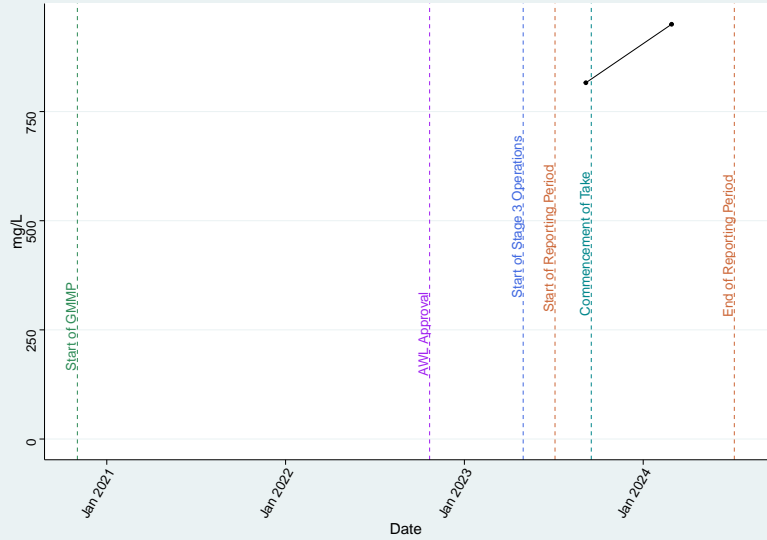
Bore 81PcR (Acland Coal Sequence) – Mn_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



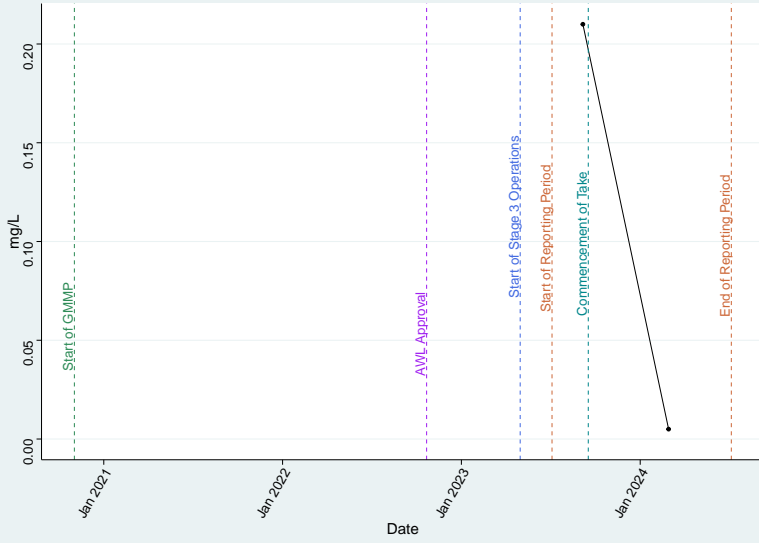
Bore 81PcR (Acland Coal Sequence) – Na

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



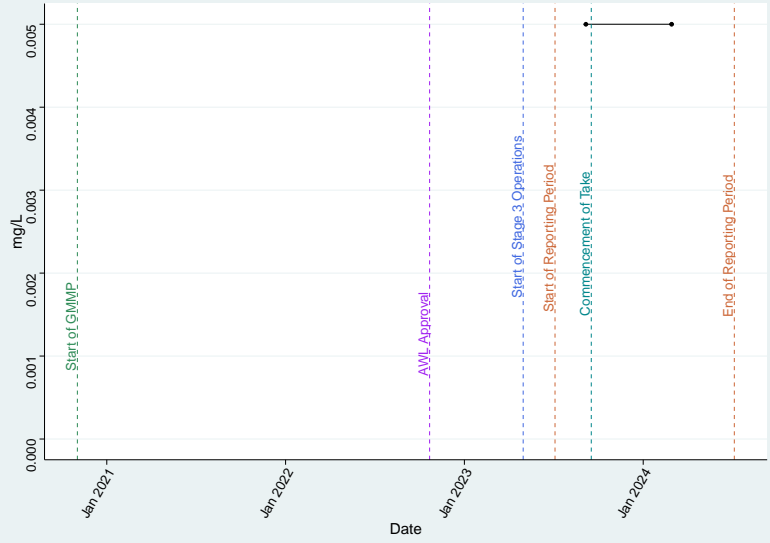
Bore 81PcR (Acland Coal Sequence) – Nitrate as N

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



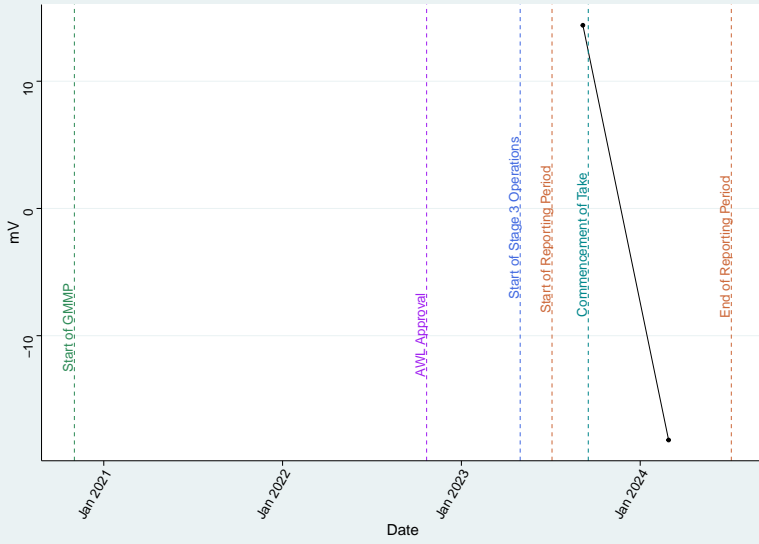
Bore 81PcR (Acland Coal Sequence) – Nitrite as N

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



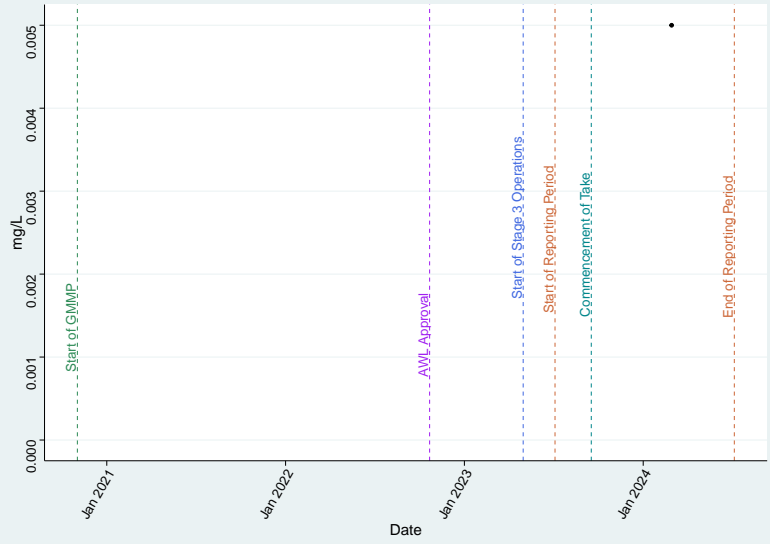
Bore 81PcR (Acland Coal Sequence) – Redox_Field

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



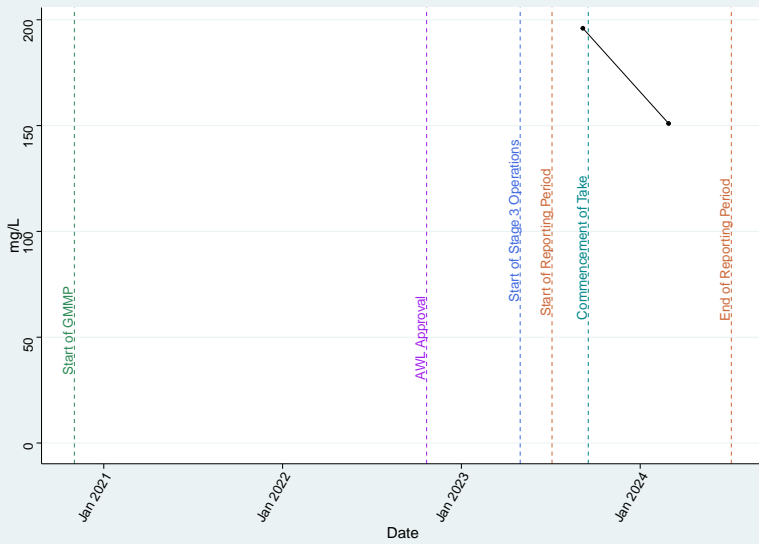
Bore 81PcR (Acland Coal Sequence) – Se_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



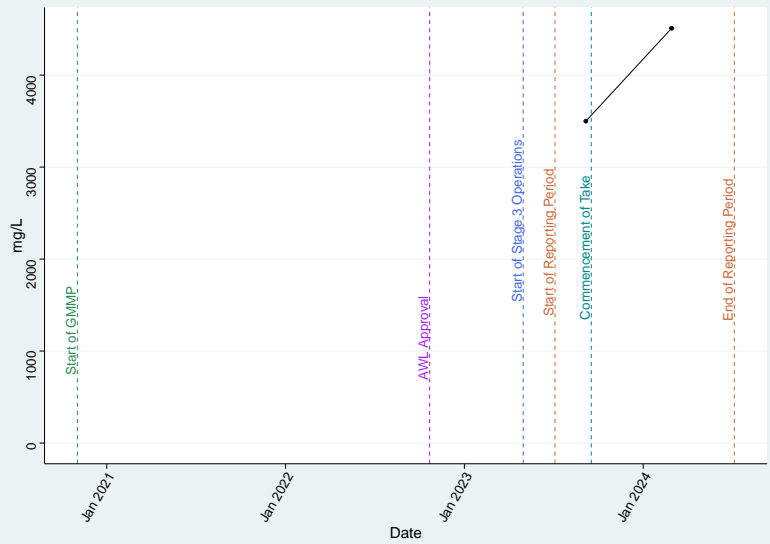
Bore 81PcR (Acland Coal Sequence) – SO4

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



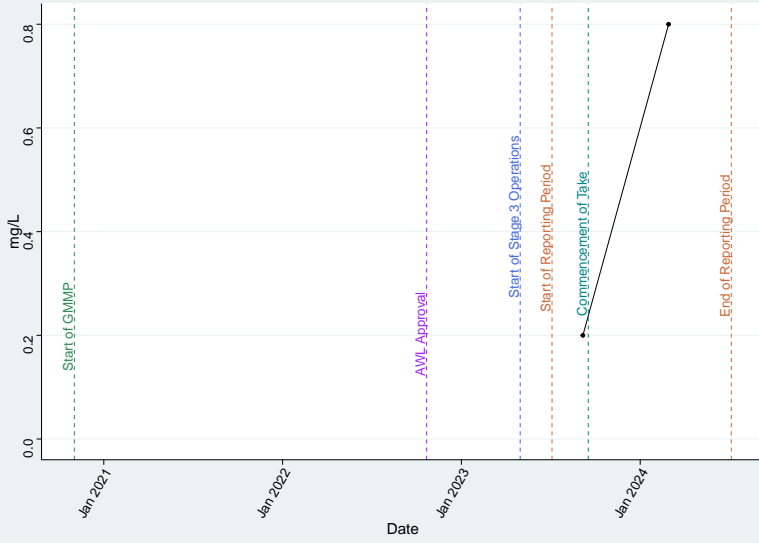
Bore 81PcR (Acland Coal Sequence) – TDS

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



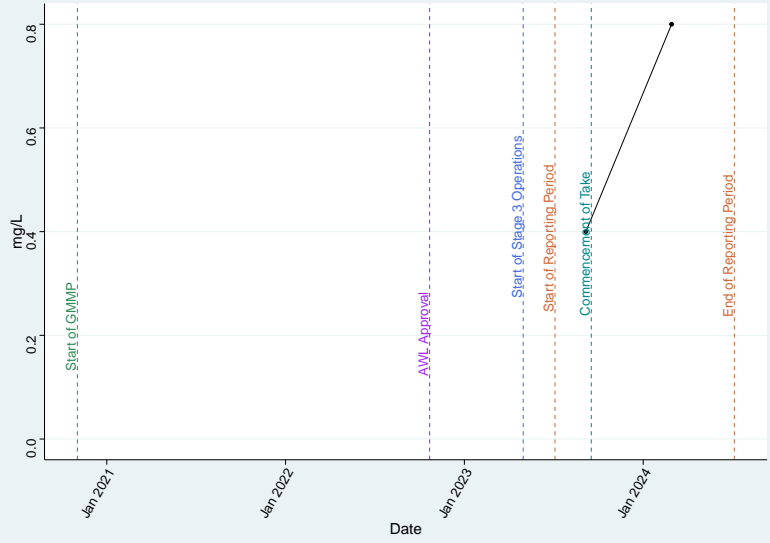
Bore 81PcR (Acland Coal Sequence) – TKN

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



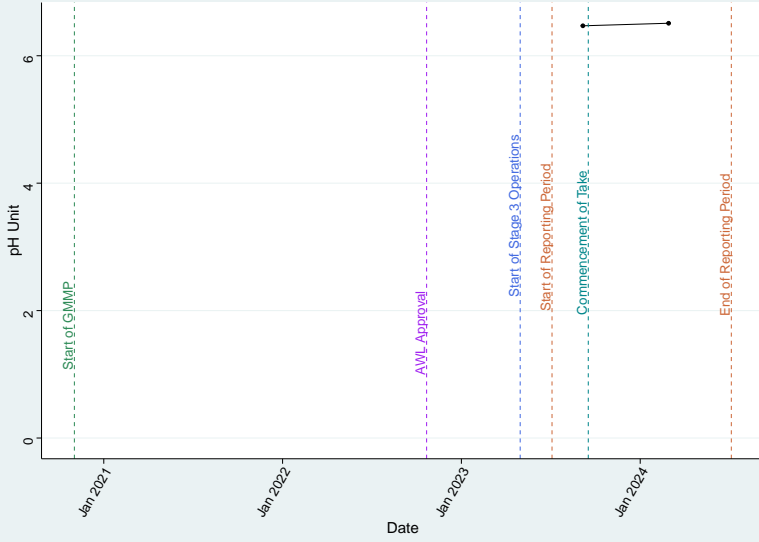
Bore 81PcR (Acland Coal Sequence) – Total_N

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



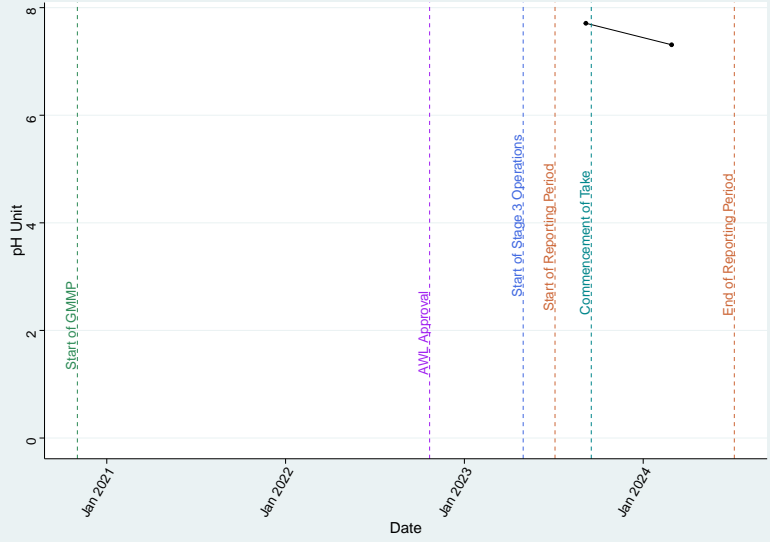
Bore 81PcR (Acland Coal Sequence) – pH_Field

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



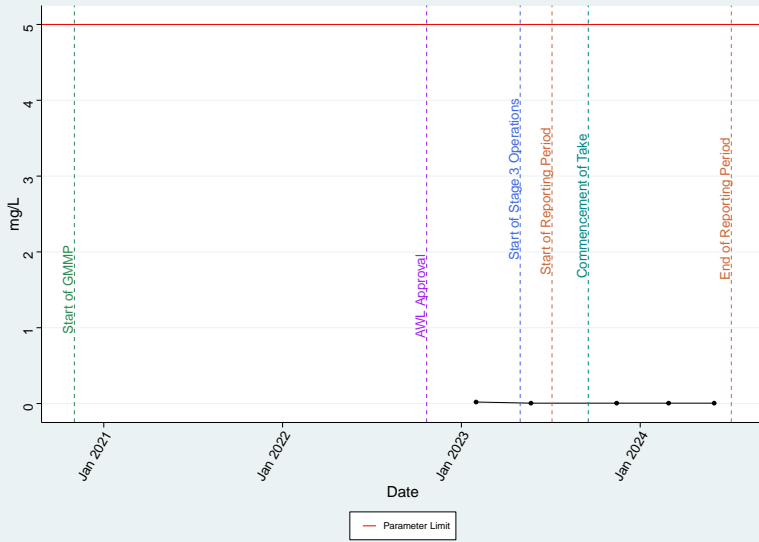
Bore 81PcR (Acland Coal Sequence) – pH_Lab

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



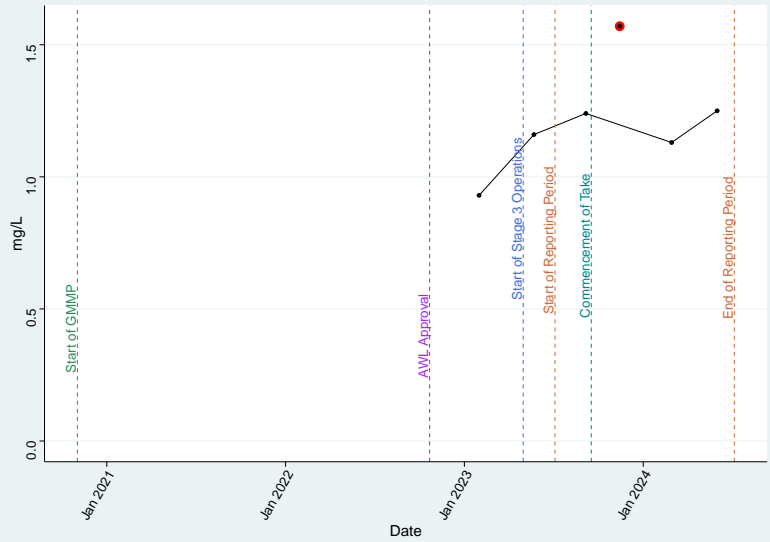
Bore 82PcR (Acland Coal Sequence) – Al_diss

Mann Kendall Trend Test | τ = -0.632 | p-value = 0.289 | No trend



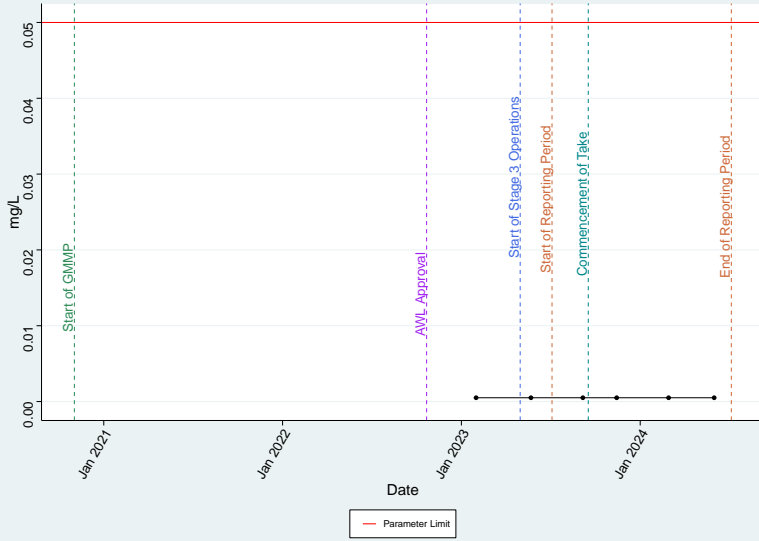
Bore 82PcR (Acland Coal Sequence) – Ammonia as N

Mann Kendall Trend Test | τ = 0.467 | p-value = 0.26 | No trend



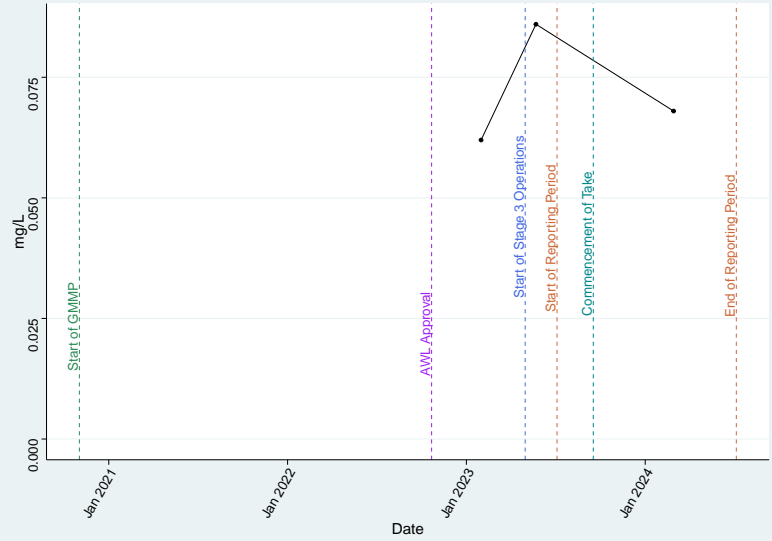
Bore 82PcR (Acland Coal Sequence) – As_diss

Mann Kendall Trend Test | $\tau = 1$ | p-value = 1 | No trend



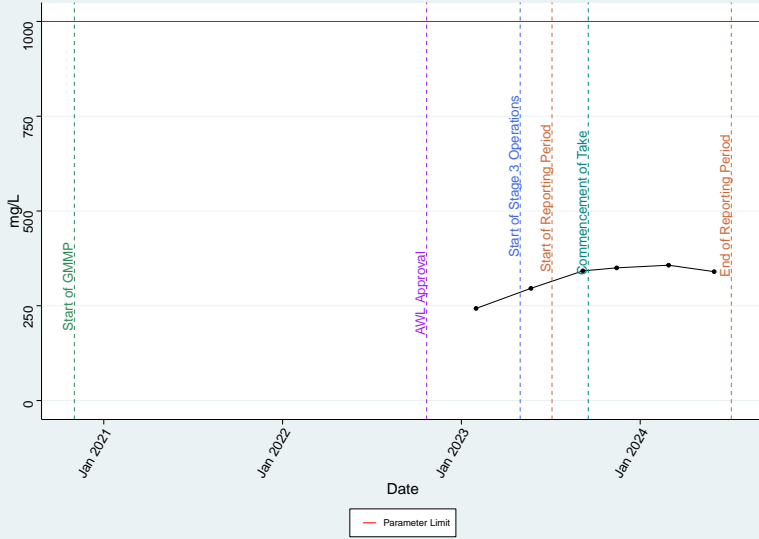
Bore 82PcR (Acland Coal Sequence) – Ba_diss

Mann Kendall Trend Test | $\tau =$ Not enough data | p-value = Not enough data | Not evaluated



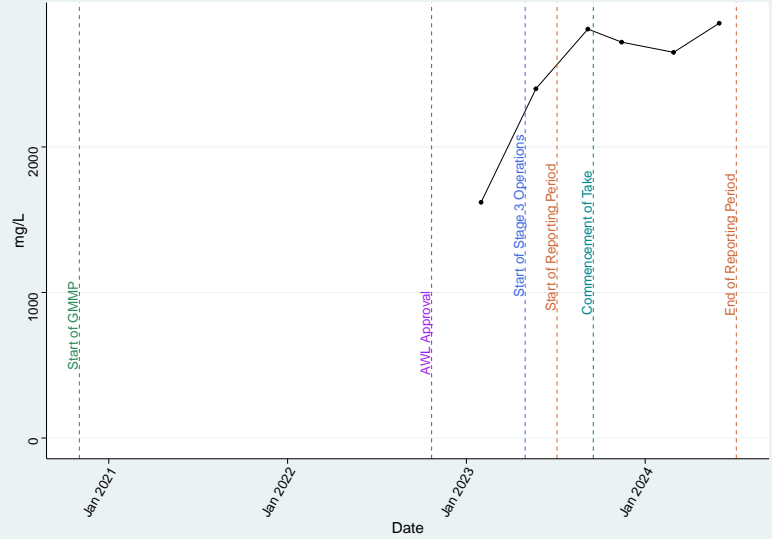
Bore 82PcR (Acland Coal Sequence) – Ca

Mann Kendall Trend Test | $\tau = 0.6$ | p-value = 0.133 | No trend



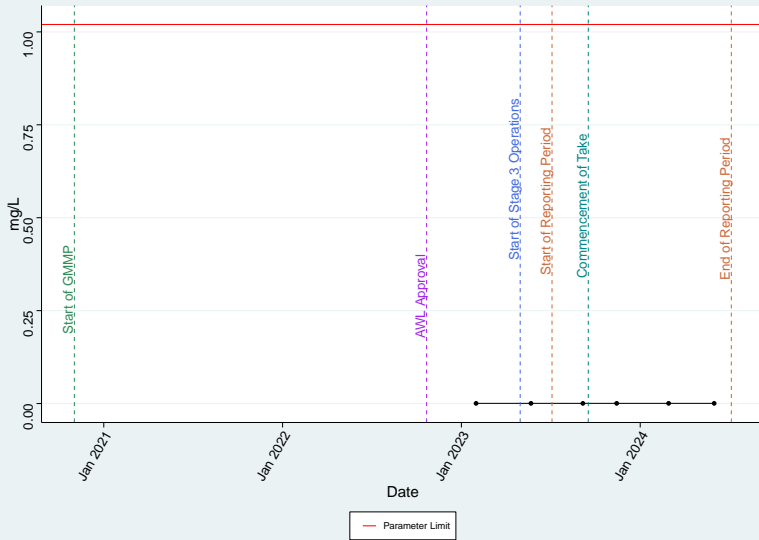
Bore 82PcR (Acland Coal Sequence) – Cl

Mann Kendall Trend Test | $\tau = 0.6$ | p-value = 0.133 | No trend



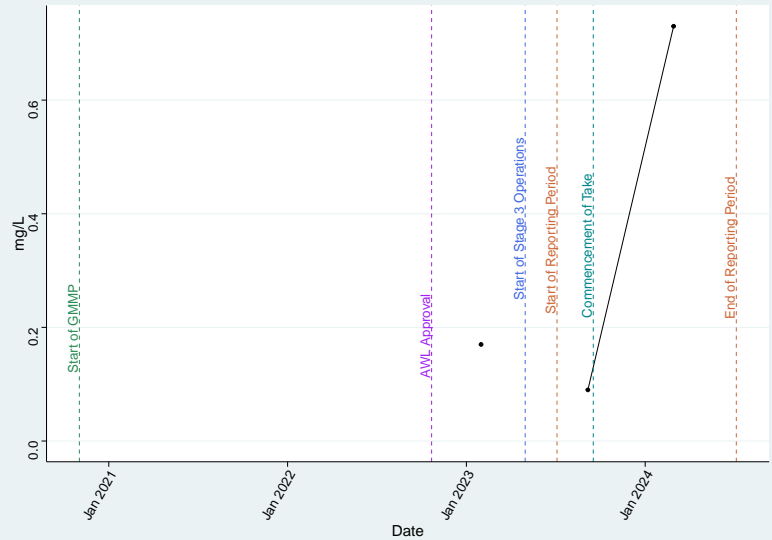
Bore 82PcR (Acland Coal Sequence) – Cu_diss

Mann Kendall Trend Test | $\tau = 1$ | p-value = 1 | No trend

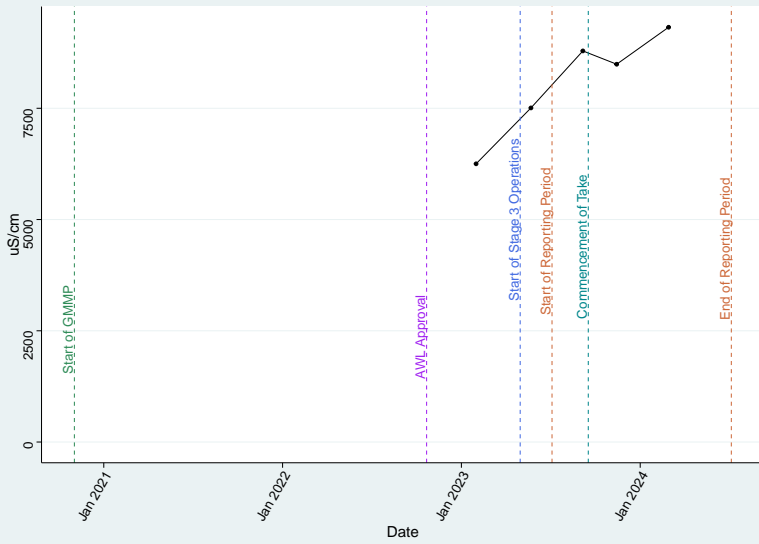


Bore 82PcR (Acland Coal Sequence) – DO_Field

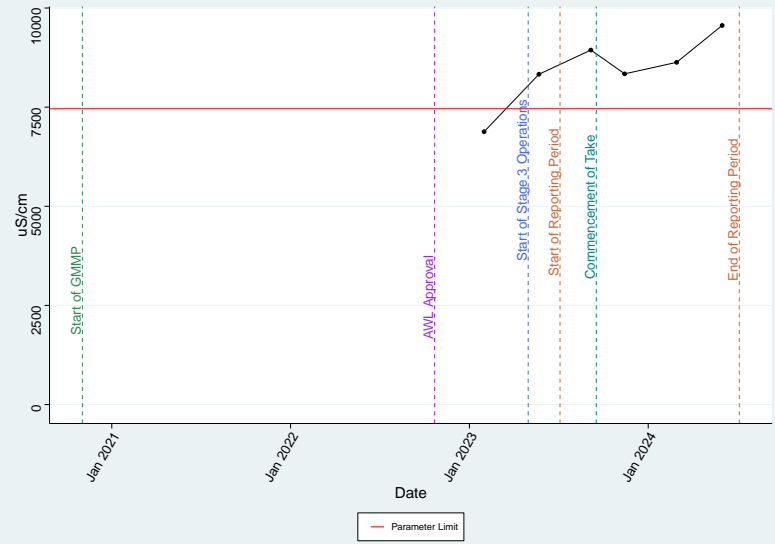
Mann Kendall Trend Test | $\tau = 0.333$ | p-value = 0.734 | No trend



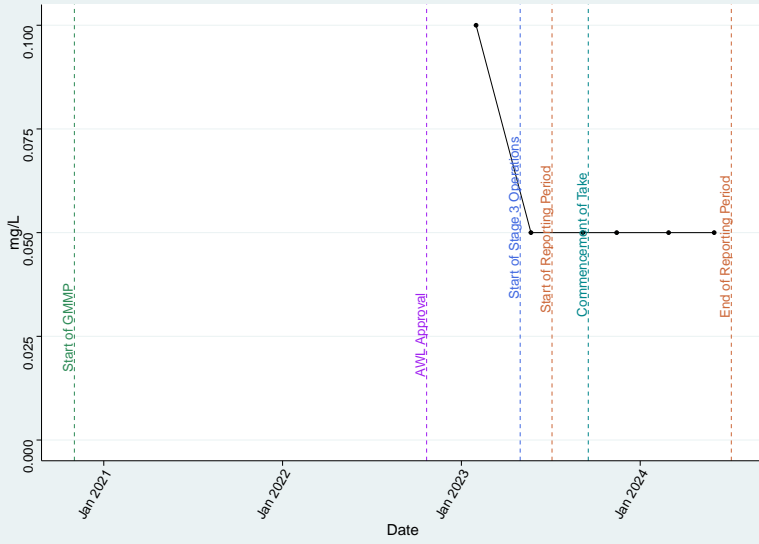
Bore 82PcR (Acland Coal Sequence) – EC_Field
 Mann Kendall Trend Test | $\tau = 0.8$ | $p\text{-value} = 0.0864$ | No trend



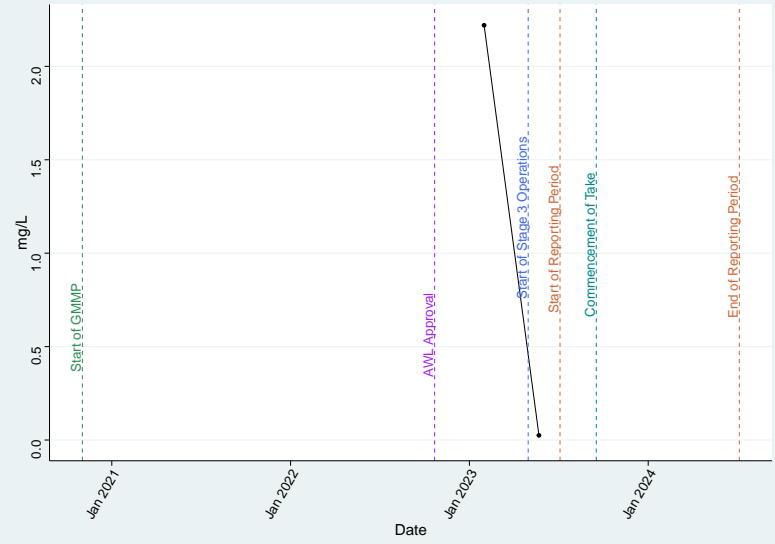
Bore 82PcR (Acland Coal Sequence) – EC_Lab
 Mann Kendall Trend Test | $\tau = 0.733$ | $p\text{-value} = 0.0603$ | No trend



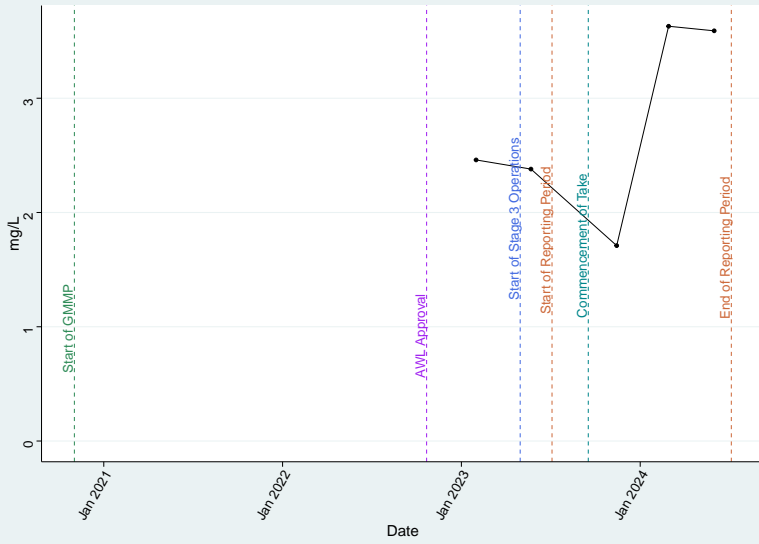
Bore 82PcR (Acland Coal Sequence) – F
 Mann Kendall Trend Test | $\tau = -0.577$ | $p\text{-value} = 0.242$ | No trend



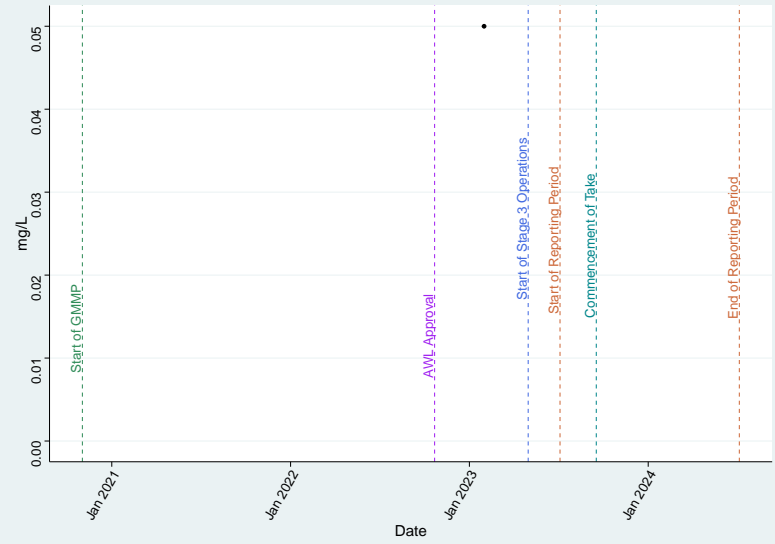
Bore 82PcR (Acland Coal Sequence) – Fe2
 Mann Kendall Trend Test | $\tau =$ Not enough data | $p\text{-value} =$ Not enough data | Not evaluated



Bore 82PcR (Acland Coal Sequence) – Fe_diss
 Mann Kendall Trend Test | $\tau = 0.2$ | $p\text{-value} = 0.806$ | No trend

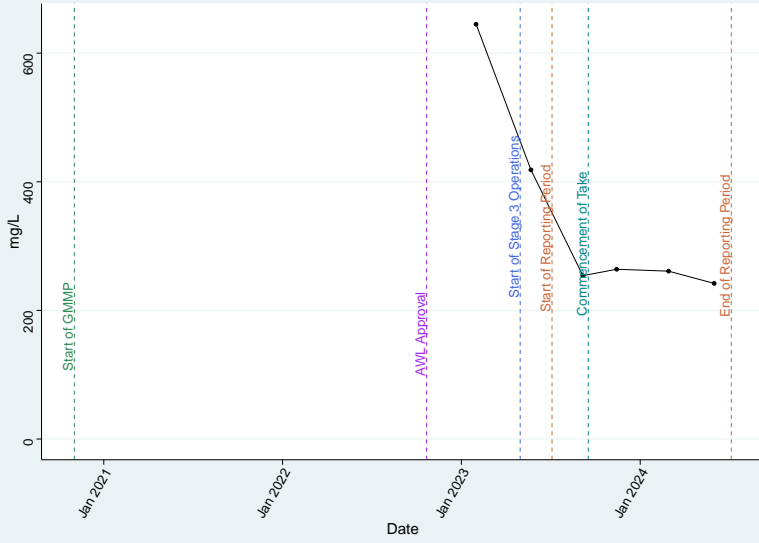


Bore 82PcR (Acland Coal Sequence) – H2S
 Mann Kendall Trend Test | $\tau =$ Not enough data | $p\text{-value} =$ Not enough data | Not evaluated



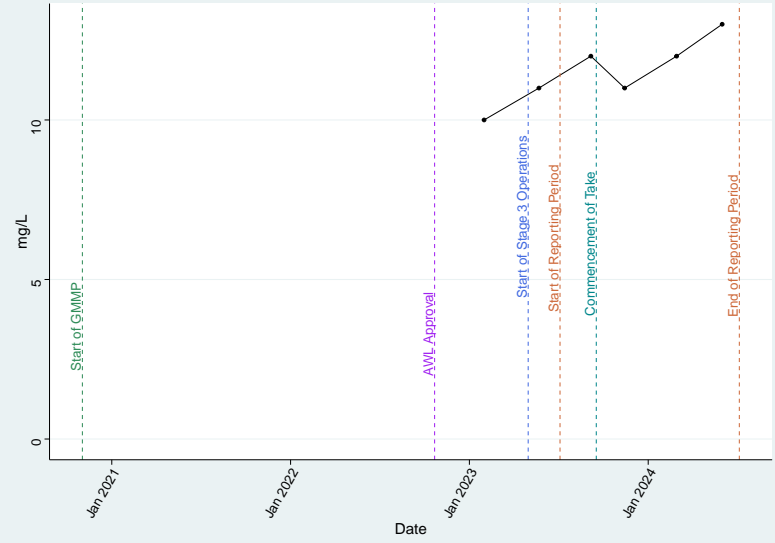
Bore 82PcR (Acland Coal Sequence) – HCO3

Mann Kendall Trend Test | $\tau = -0.733$ | $p\text{-value} = 0.0603$ | No trend



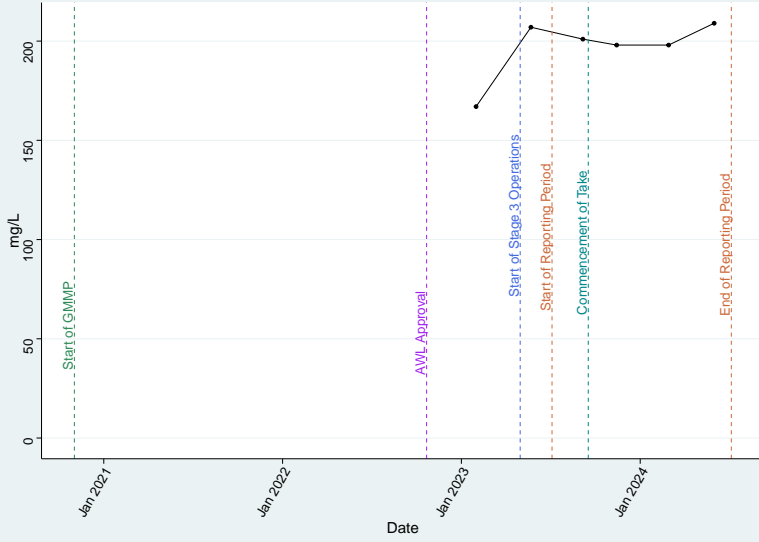
Bore 82PcR (Acland Coal Sequence) – K

Mann Kendall Trend Test | $\tau = 0.788$ | $p\text{-value} = 0.0513$ | No trend



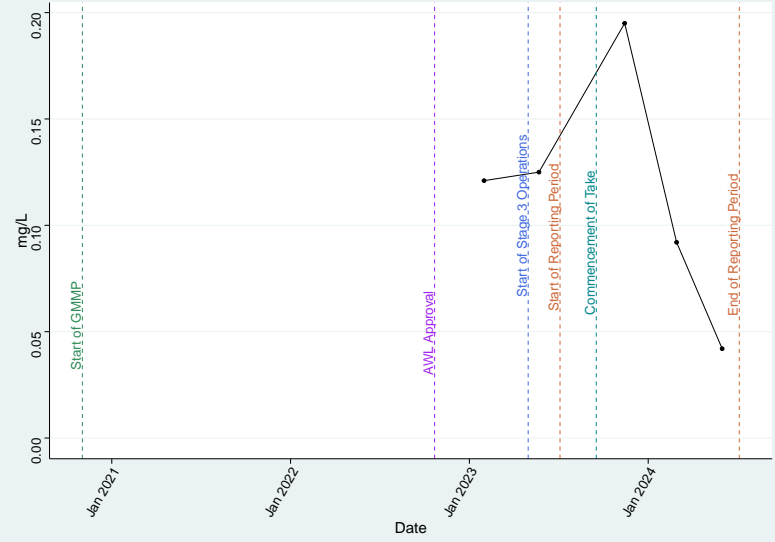
Bore 82PcR (Acland Coal Sequence) – Mg

Mann Kendall Trend Test | $\tau = 0.276$ | $p\text{-value} = 0.566$ | No trend



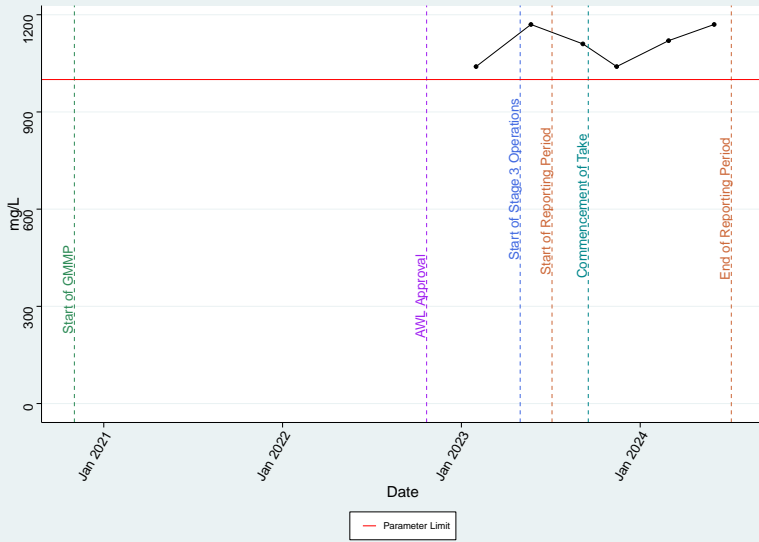
Bore 82PcR (Acland Coal Sequence) – Mn_diss

Mann Kendall Trend Test | $\tau = -0.4$ | $p\text{-value} = 0.462$ | No trend



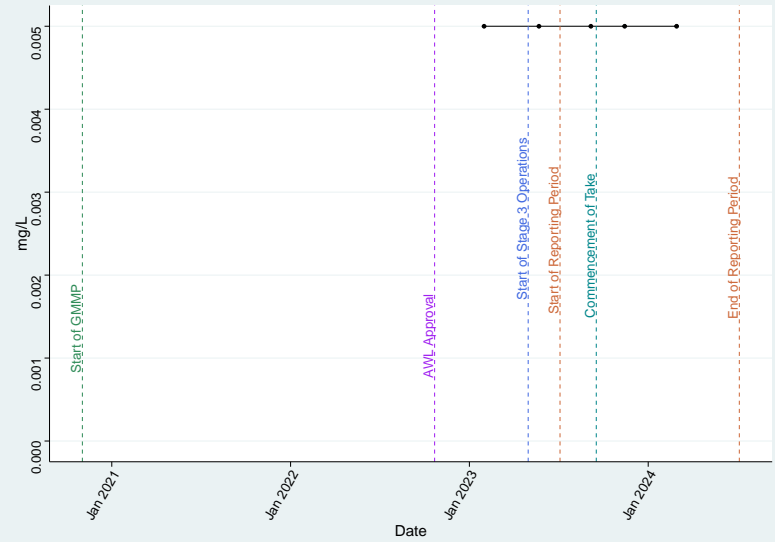
Bore 82PcR (Acland Coal Sequence) – Na

Mann Kendall Trend Test | $\tau = 0.358$ | $p\text{-value} = 0.436$ | No trend



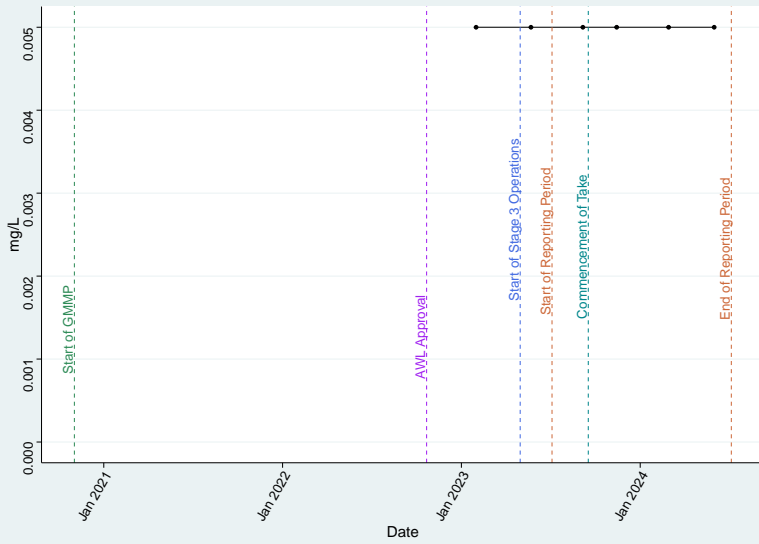
Bore 82PcR (Acland Coal Sequence) – Nitrate as N

Mann Kendall Trend Test | $\tau = 1$ | $p\text{-value} = 1$ | No trend



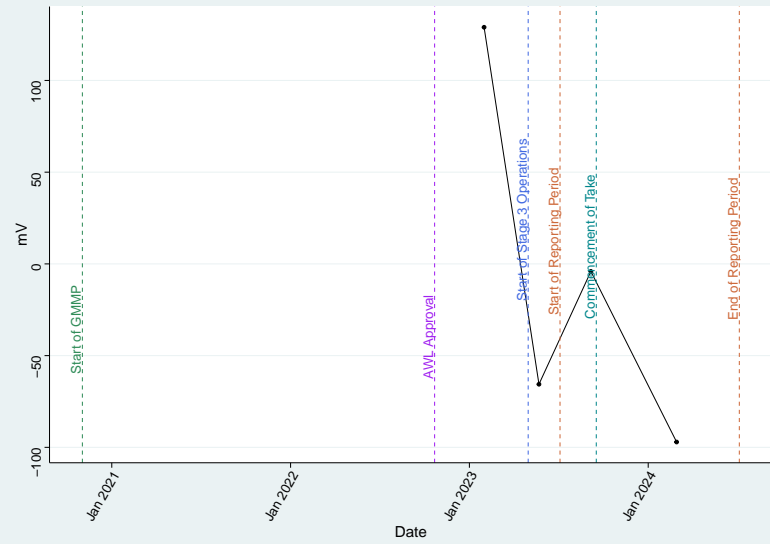
Bore 82PcR (Acland Coal Sequence) – Nitrite as N

Mann Kendall Trend Test | $\tau = 1$ | p-value = 1 | No trend



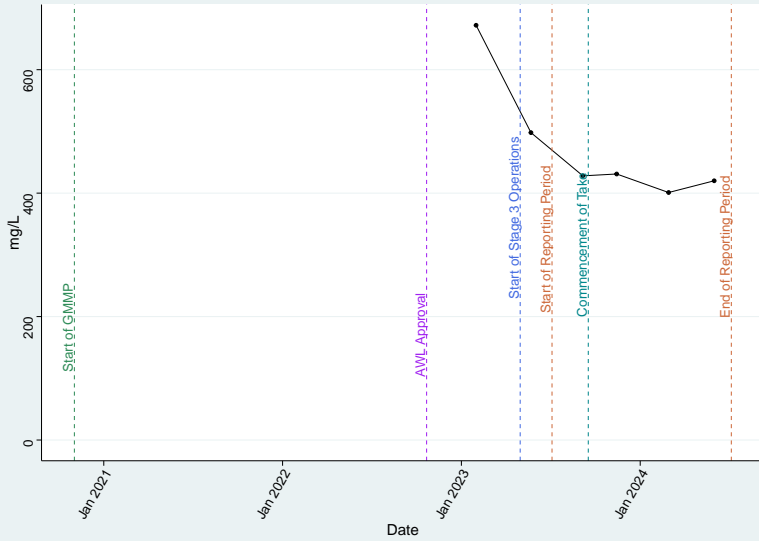
Bore 82PcR (Acland Coal Sequence) – Redox_Field

Mann Kendall Trend Test | $\tau = -0.667$ | p-value = 0.308 | No trend



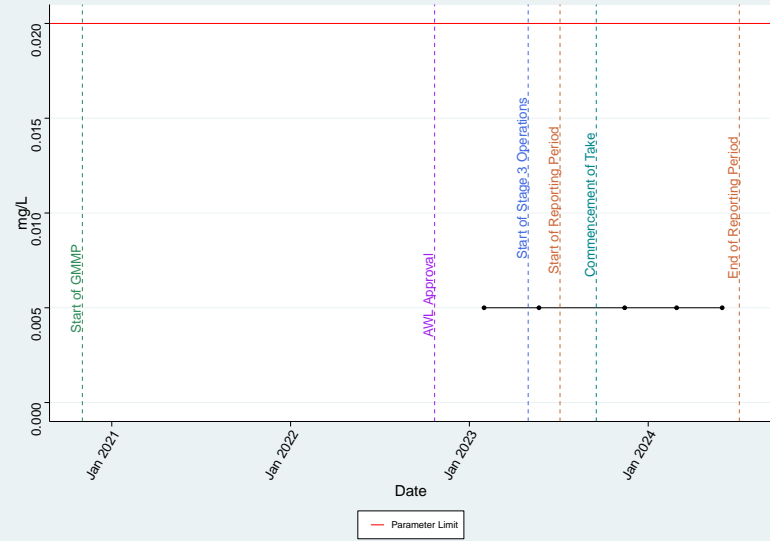
Bore 82PcR (Acland Coal Sequence) – SO4

Mann Kendall Trend Test | $\tau = -0.733$ | p-value = 0.0603 | No trend



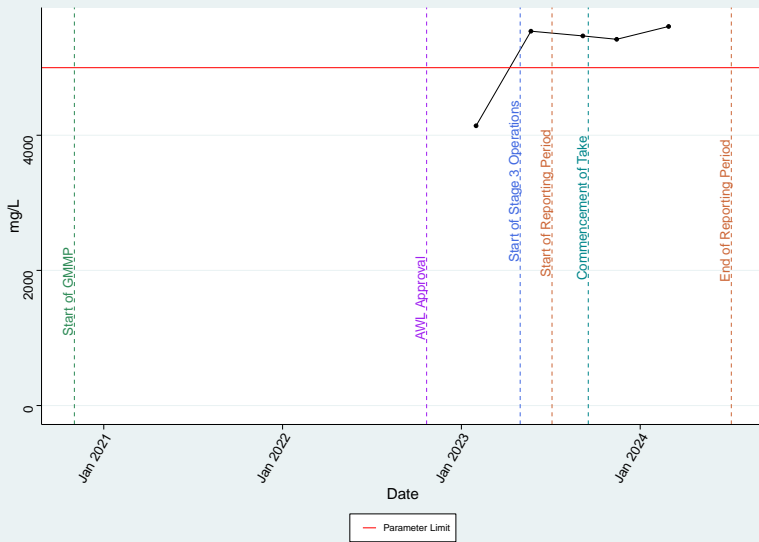
Bore 82PcR (Acland Coal Sequence) – Se_diss

Mann Kendall Trend Test | $\tau = 1$ | p-value = 1 | No trend



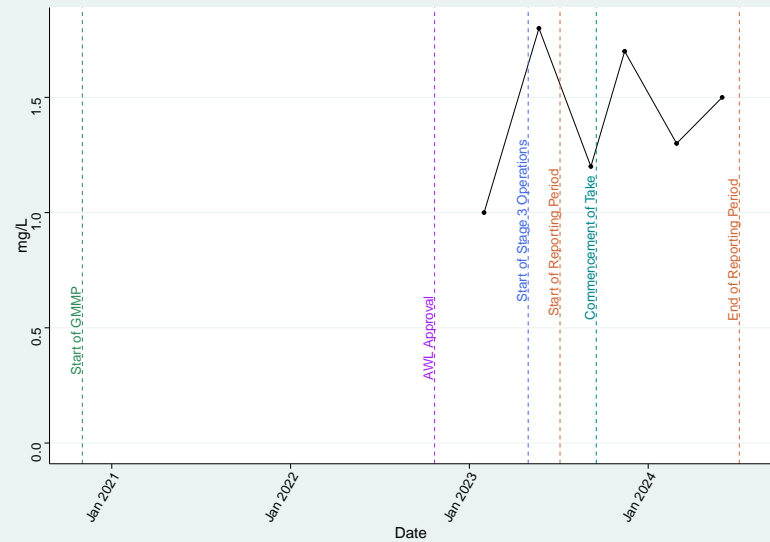
Bore 82PcR (Acland Coal Sequence) – TDS

Mann Kendall Trend Test | $\tau = 0.4$ | p-value = 0.462 | No trend

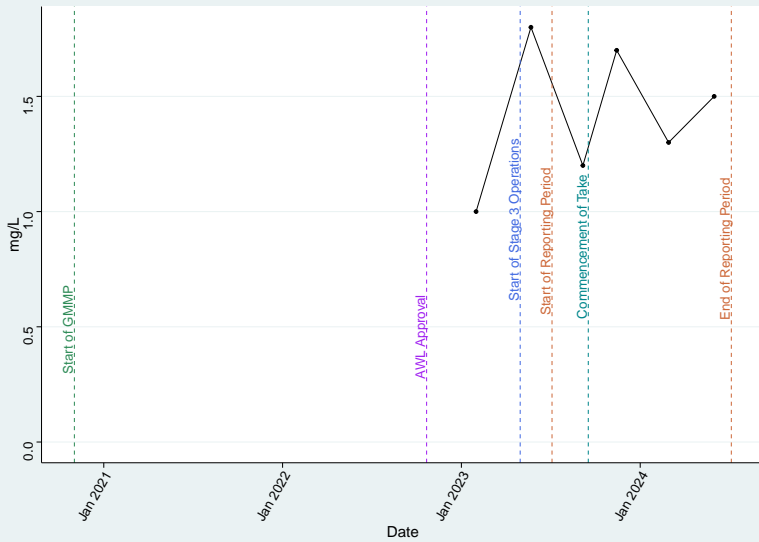


Bore 82PcR (Acland Coal Sequence) – TKN

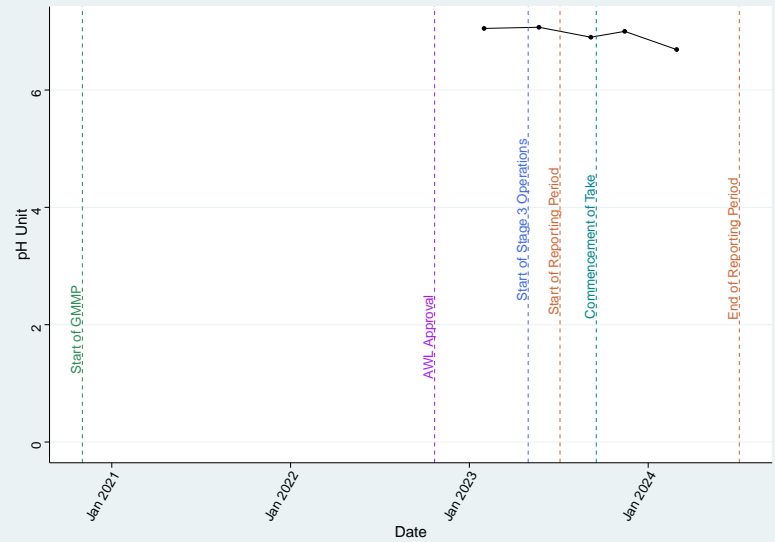
Mann Kendall Trend Test | $\tau = 0.2$ | p-value = 0.707 | No trend



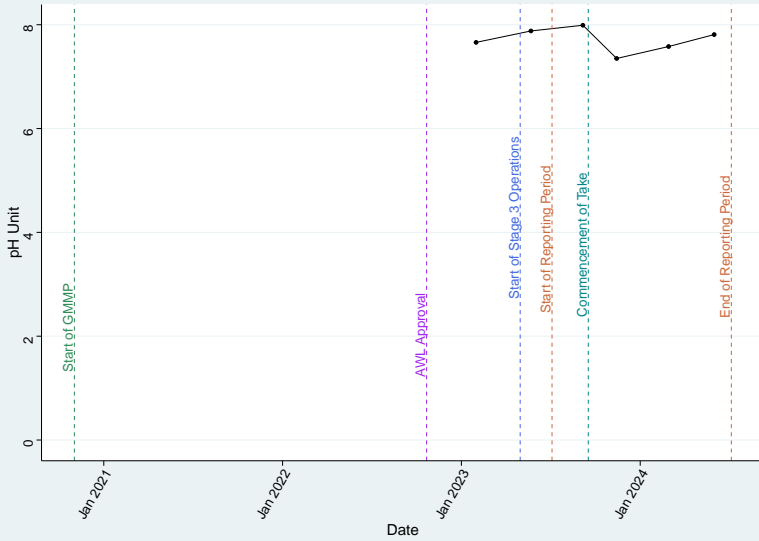
Bore 82PcR (Acland Coal Sequence) – Total_N
 Mann Kendall Trend Test | $\tau = 0.2$ | $p\text{-value} = 0.707$ | No trend



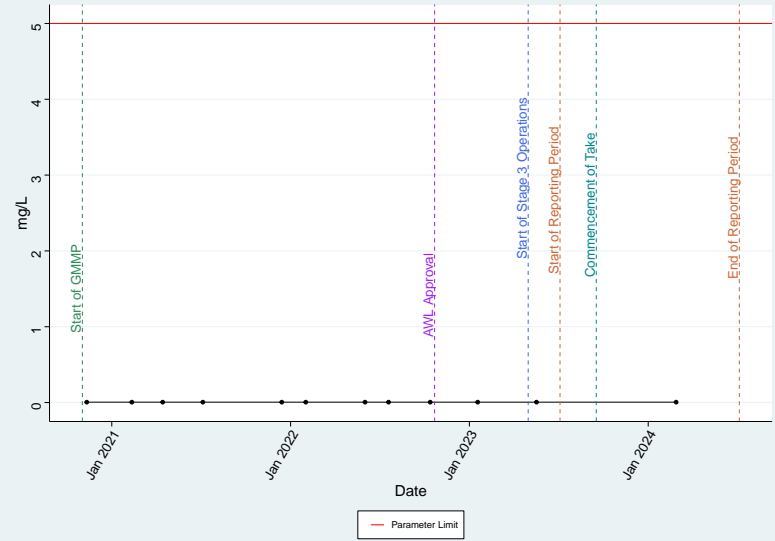
Bore 82PcR (Acland Coal Sequence) – pH_Field
 Mann Kendall Trend Test | $\tau = -0.6$ | $p\text{-value} = 0.221$ | No trend



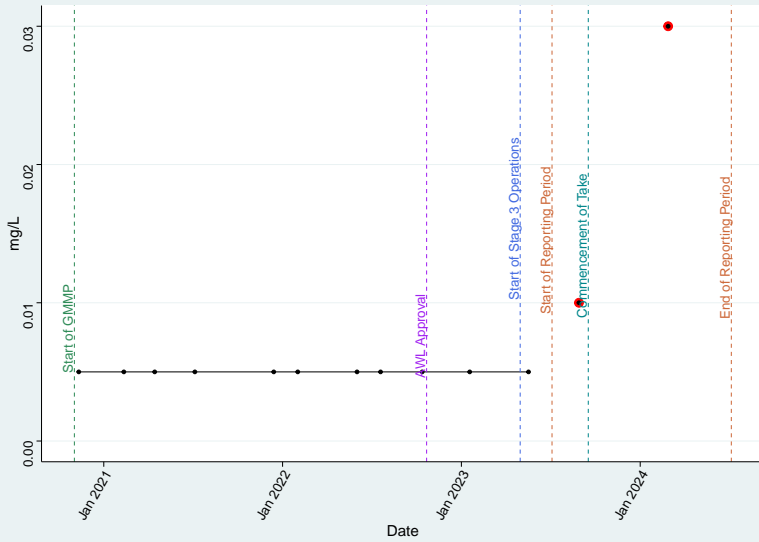
Bore 82PcR (Acland Coal Sequence) – pH_Lab
 Mann Kendall Trend Test | $\tau = -0.0667$ | $p\text{-value} = 1$ | No trend



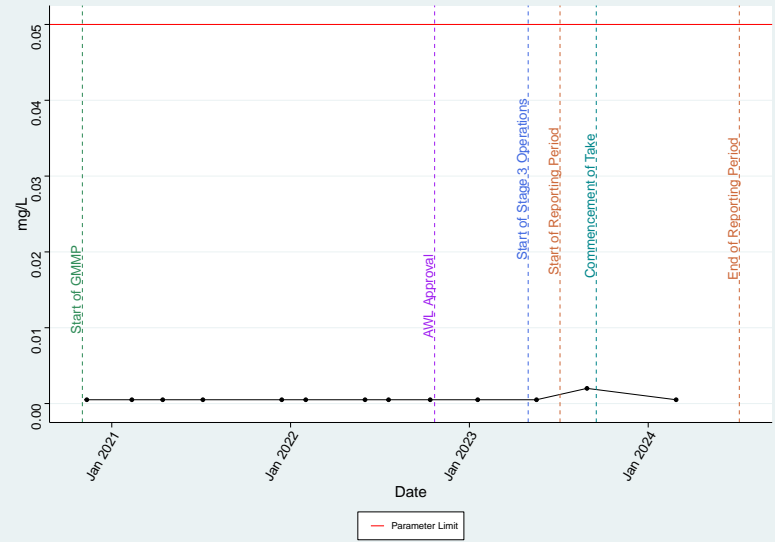
Bore 84PbR (Main Range Volcanics) – Al_diss
 Mann Kendall Trend Test | $\tau = 1$ | $p\text{-value} = 1$ | No trend



Bore 84PbR (Main Range Volcanics) – Ammonia as N
 Mann Kendall Trend Test | $\tau = 0.543$ | $p\text{-value} = 0.0307$ | Positive trend

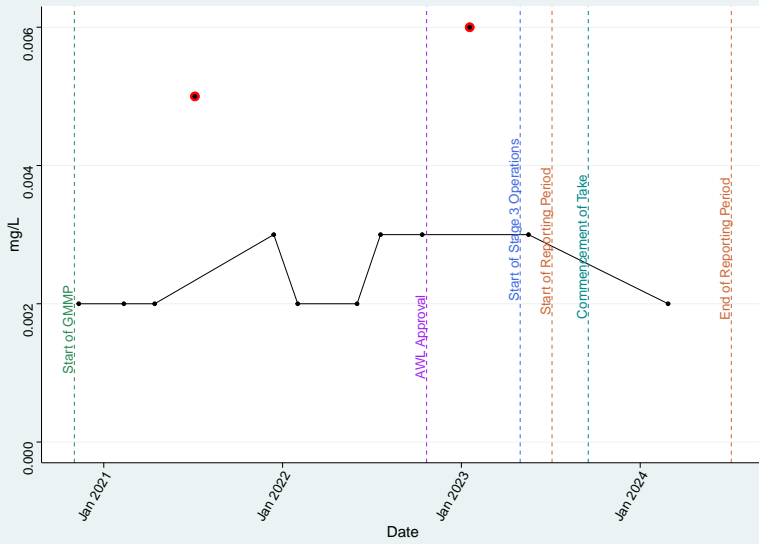


Bore 84PbR (Main Range Volcanics) – As_diss
 Mann Kendall Trend Test | $\tau = 0.327$ | $p\text{-value} = 0.229$ | No trend



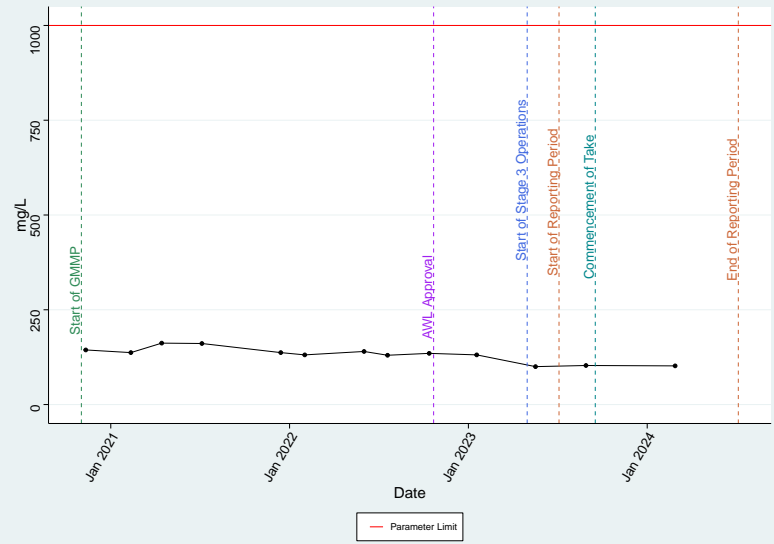
Bore 84PbR (Main Range Volcanics) – Ba_diss

Mann Kendall Trend Test | $\tau = 0.275$ | p -value = 0.291 | No trend



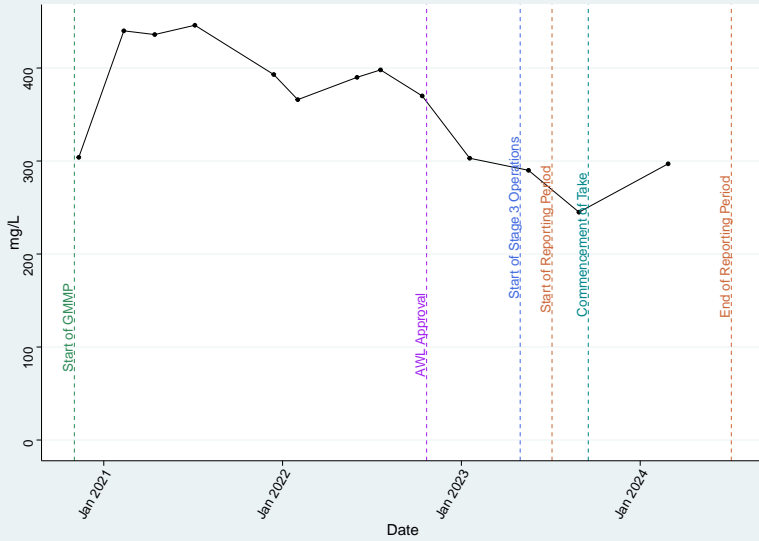
Bore 84PbR (Main Range Volcanics) – Ca

Mann Kendall Trend Test | $\tau = -0.675$ | p -value = 0.00179 | Negative trend



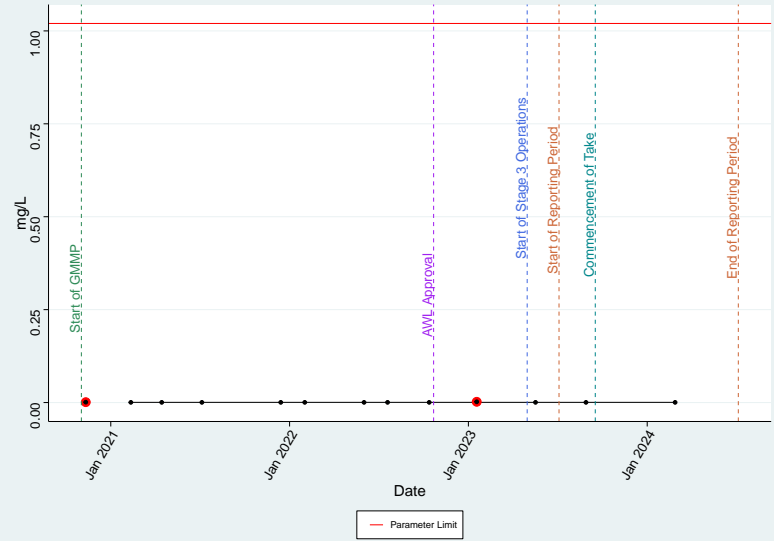
Bore 84PbR (Main Range Volcanics) – Cl

Mann Kendall Trend Test | $\tau = -0.564$ | p -value = 0.00871 | Negative trend



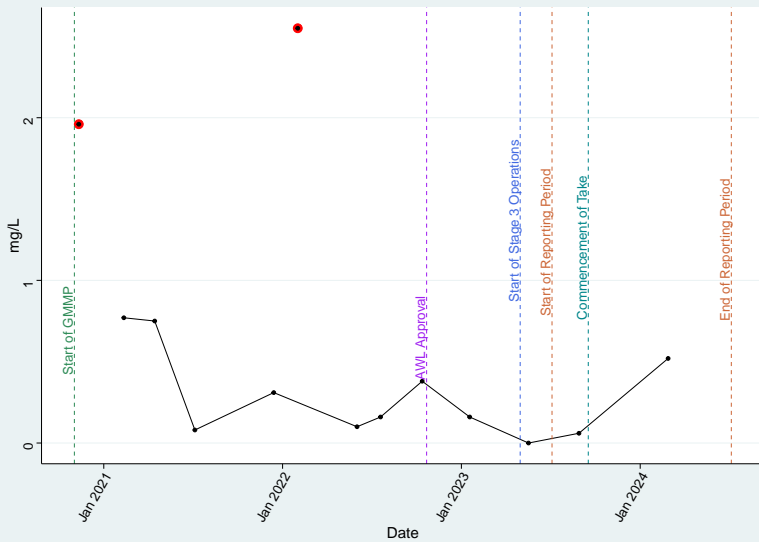
Bore 84PbR (Main Range Volcanics) – Cu_diss

Mann Kendall Trend Test | $\tau = -0.118$ | p -value = 0.694 | No trend



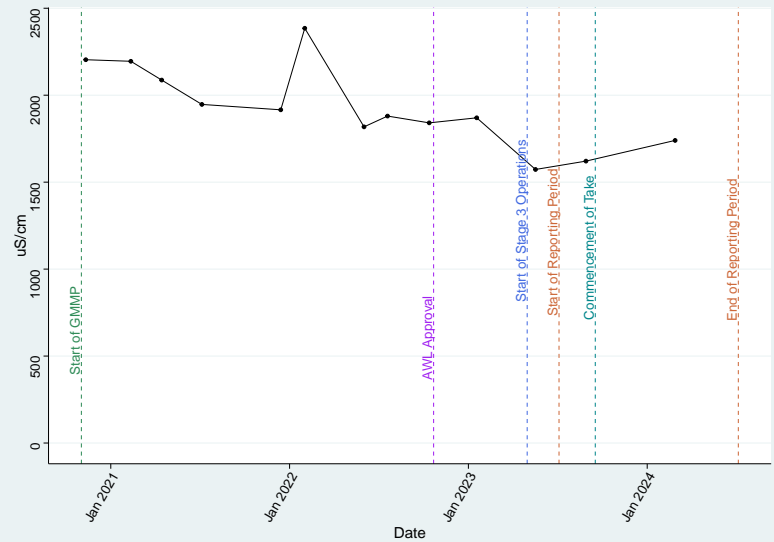
Bore 84PbR (Main Range Volcanics) – DO_Field

Mann Kendall Trend Test | $\tau = -0.374$ | p -value = 0.087 | No trend



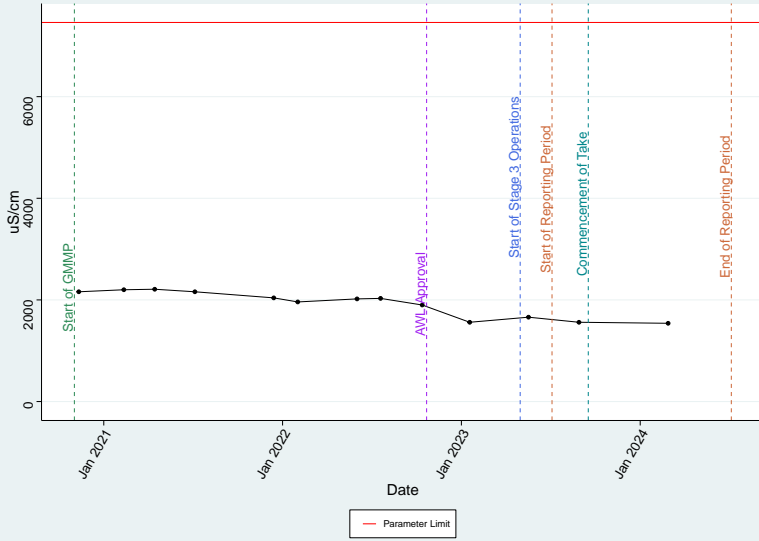
Bore 84PbR (Main Range Volcanics) – EC_Field

Mann Kendall Trend Test | $\tau = -0.692$ | p -value = 0.00122 | Negative trend



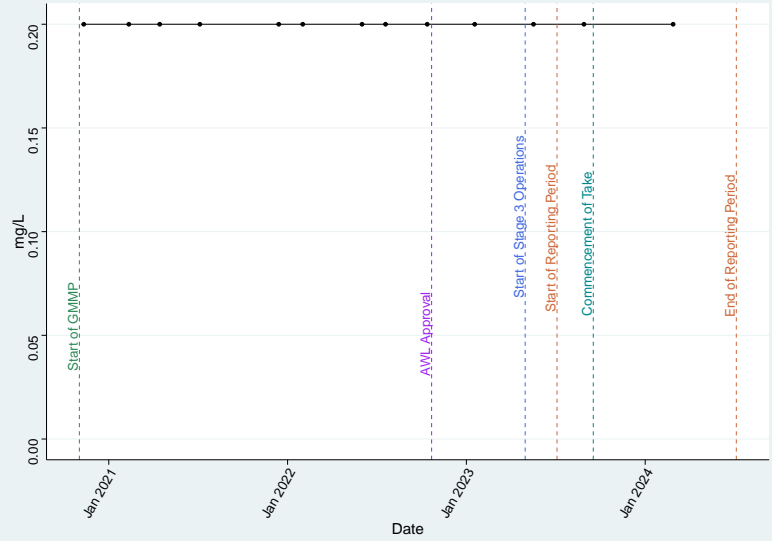
Bore 84PbR (Main Range Volcanics) – EC_Lab

Mann Kendall Trend Test | $\tau = -0.805$ | $p\text{-value} = 0.000187$ | Negative trend



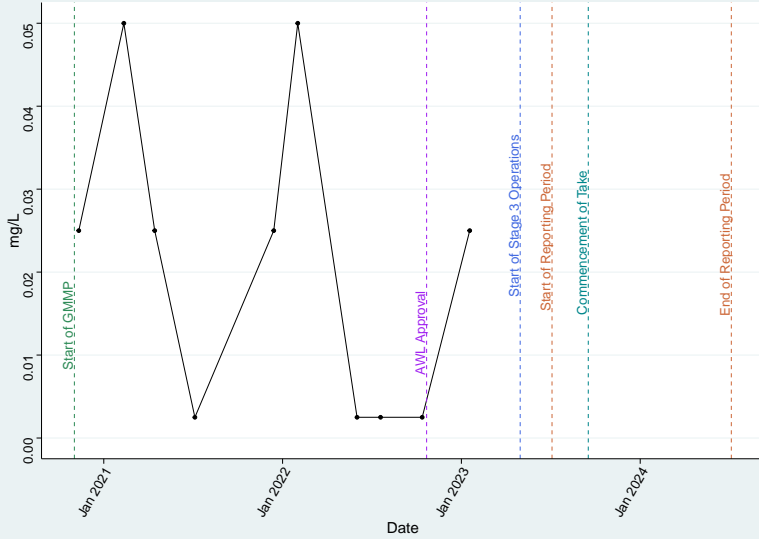
Bore 84PbR (Main Range Volcanics) – F

Mann Kendall Trend Test | $\tau = 1$ | $p\text{-value} = 1$ | No trend



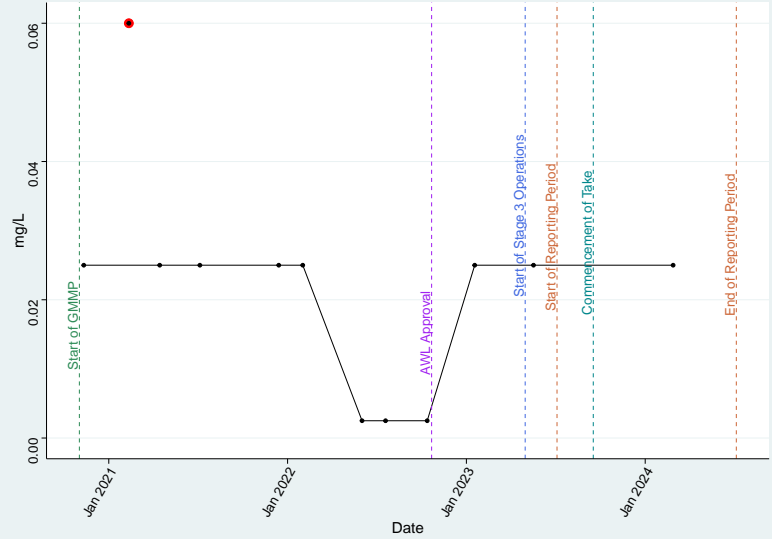
Bore 84PbR (Main Range Volcanics) – Fe2

Mann Kendall Trend Test | $\tau = -0.316$ | $p\text{-value} = 0.287$ | No trend



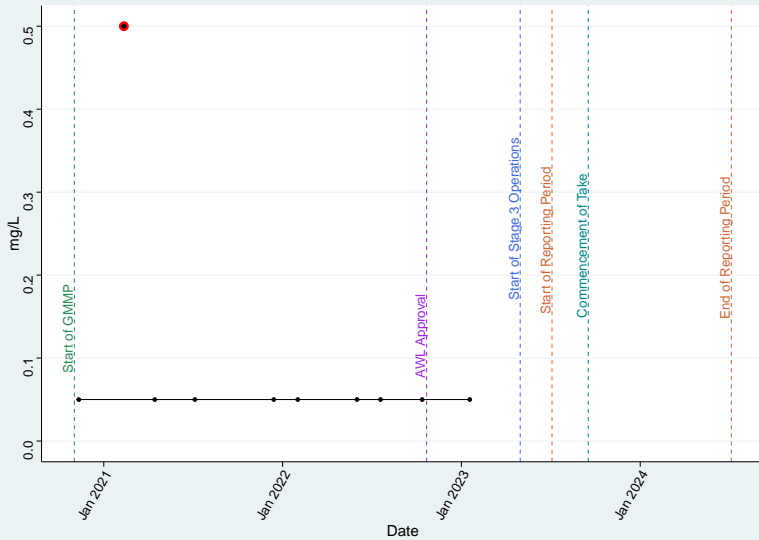
Bore 84PbR (Main Range Volcanics) – Fe_diss

Mann Kendall Trend Test | $\tau = -0.312$ | $p\text{-value} = 0.243$ | No trend



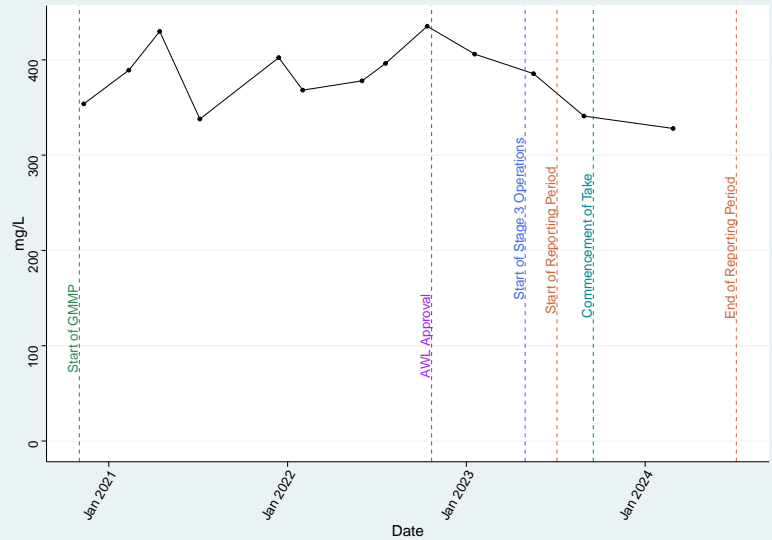
Bore 84PbR (Main Range Volcanics) – H2S

Mann Kendall Trend Test | $\tau = -0.348$ | $p\text{-value} = 0.296$ | No trend

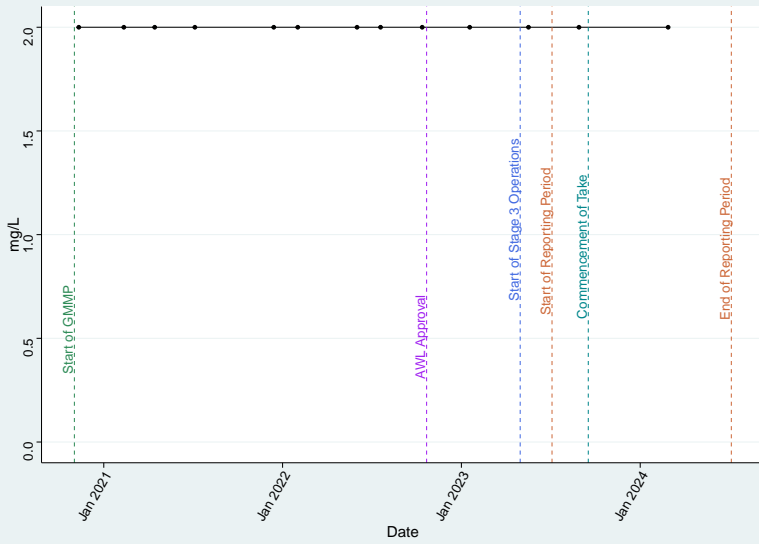


Bore 84PbR (Main Range Volcanics) – HCO3

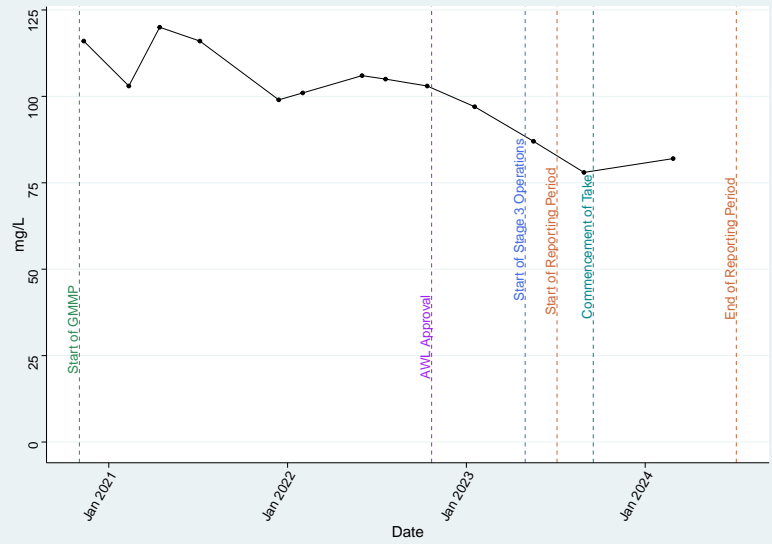
Mann Kendall Trend Test | $\tau = -0.0769$ | $p\text{-value} = 0.76$ | No trend



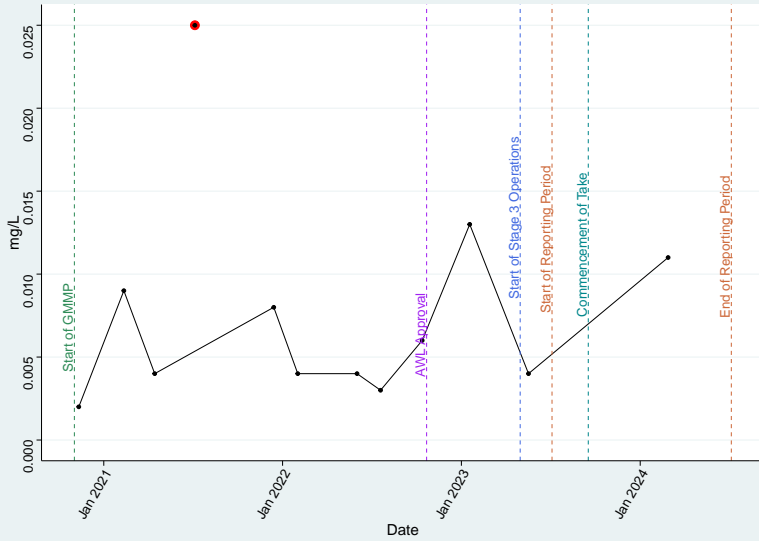
Bore 84PbR (Main Range Volcanics) – K
Mann Kendall Trend Test | $\tau = 1$ | p-value = 1 | No trend



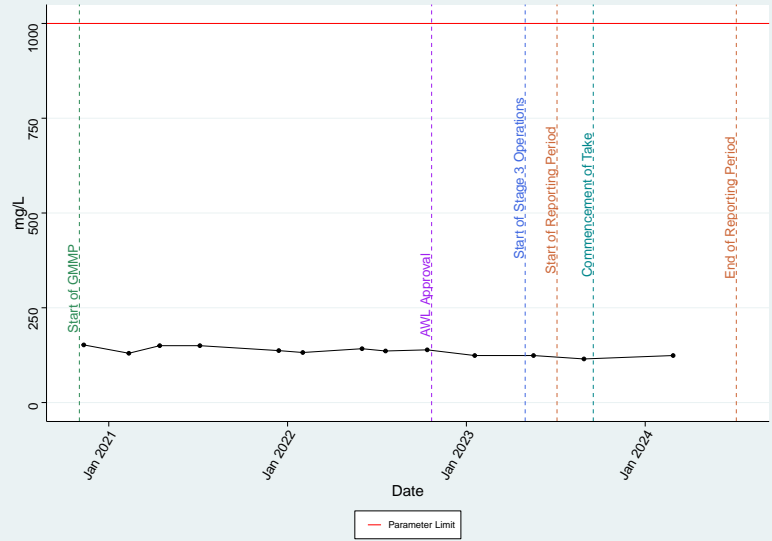
Bore 84PbR (Main Range Volcanics) – Mg
Mann Kendall Trend Test | $\tau = -0.649$ | p-value = 0.00269 | Negative trend



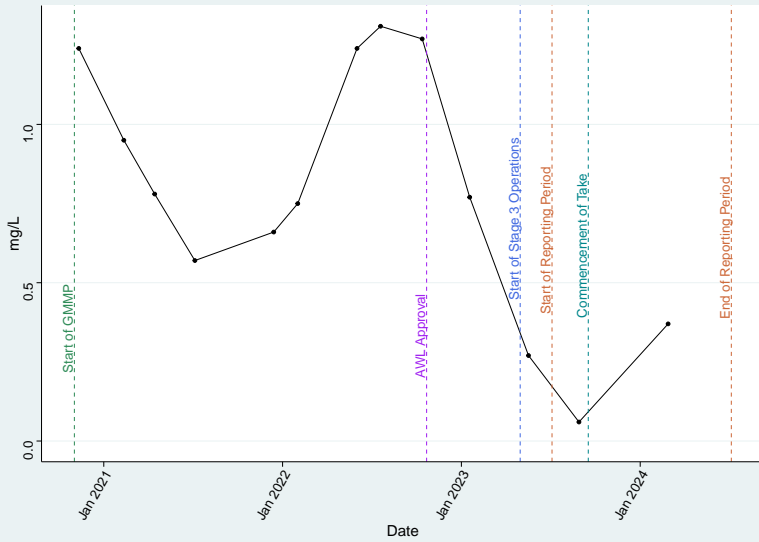
Bore 84PbR (Main Range Volcanics) – Mn_diss
Mann Kendall Trend Test | $\tau = 0.127$ | p-value = 0.624 | No trend



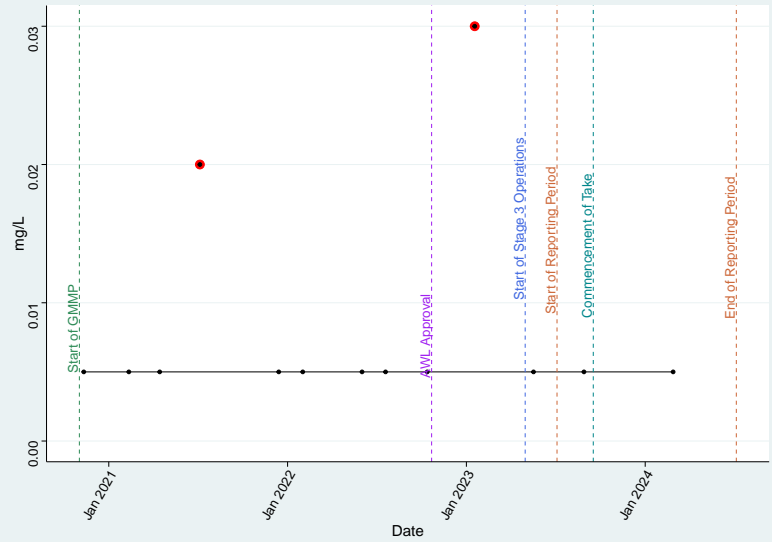
Bore 84PbR (Main Range Volcanics) – Na
Mann Kendall Trend Test | $\tau = -0.605$ | p-value = 0.00561 | Negative trend



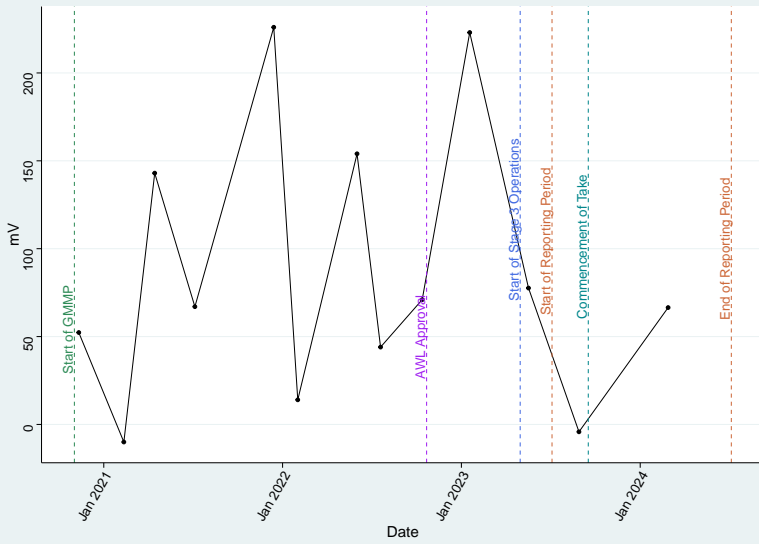
Bore 84PbR (Main Range Volcanics) – Nitrate as N
Mann Kendall Trend Test | $\tau = -0.297$ | p-value = 0.179 | No trend



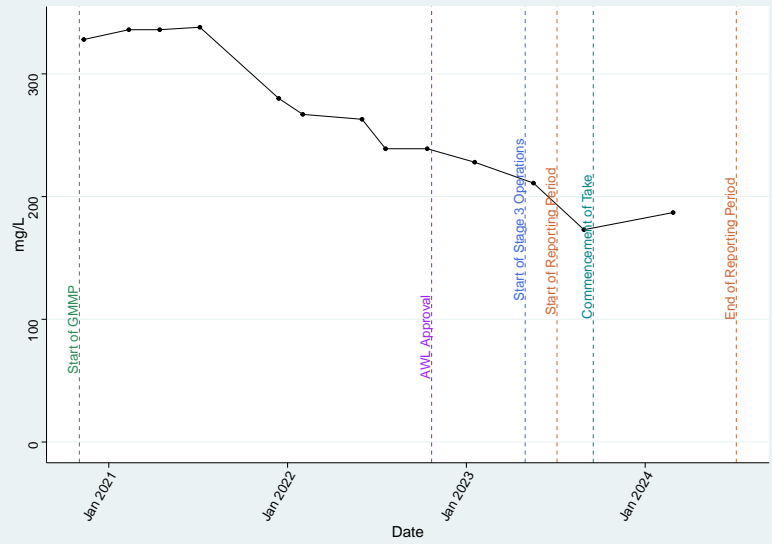
Bore 84PbR (Main Range Volcanics) – Nitrite as N
Mann Kendall Trend Test | $\tau = 0.0236$ | p-value = 1 | No trend



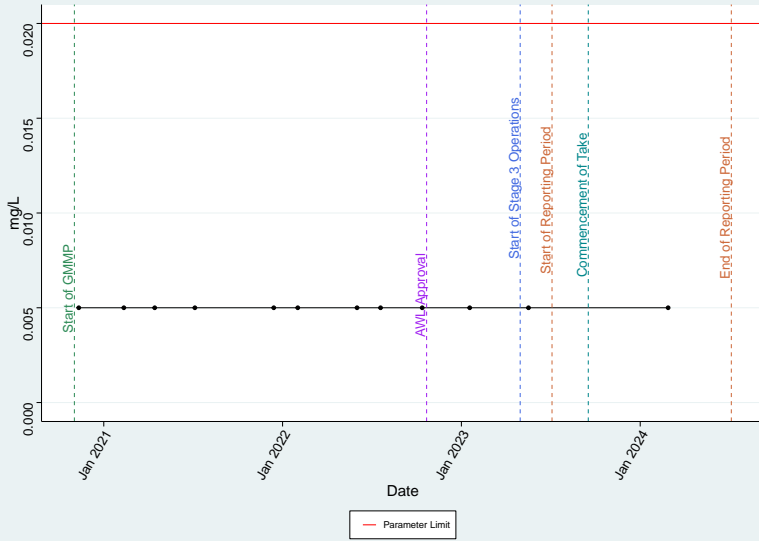
Bore 84PbR (Main Range Volcanics) – Redox_Field
 Mann Kendall Trend Test | $\tau = 0.0513$ | $p\text{-value} = 0.855$ | No trend



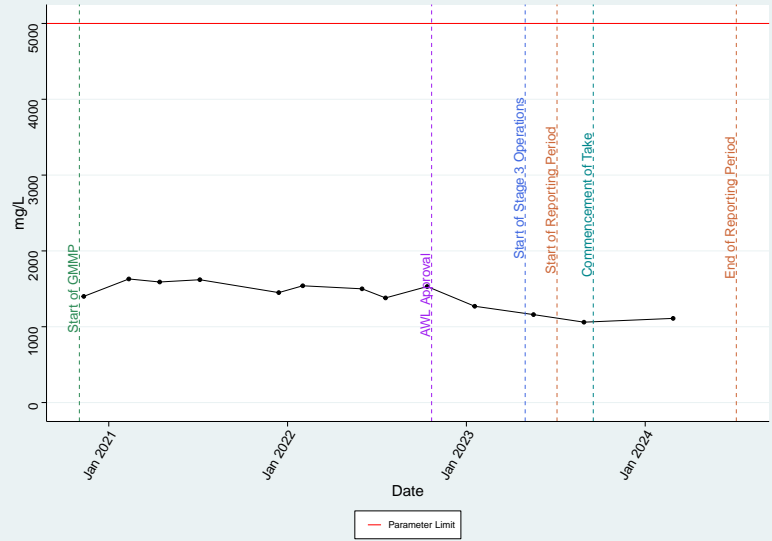
Bore 84PbR (Main Range Volcanics) – SO4
 Mann Kendall Trend Test | $\tau = -0.831$ | $p\text{-value} = 0.000114$ | Negative trend



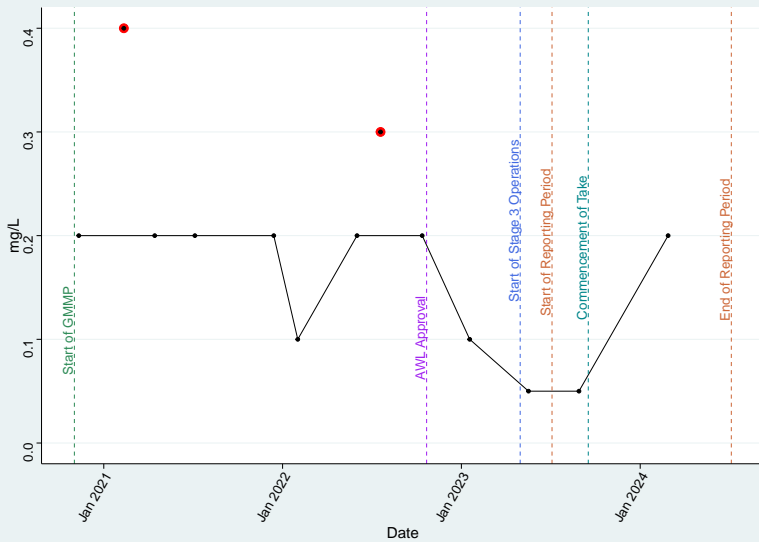
Bore 84PbR (Main Range Volcanics) – Se_diss
 Mann Kendall Trend Test | $\tau = 1$ | $p\text{-value} = 1$ | No trend



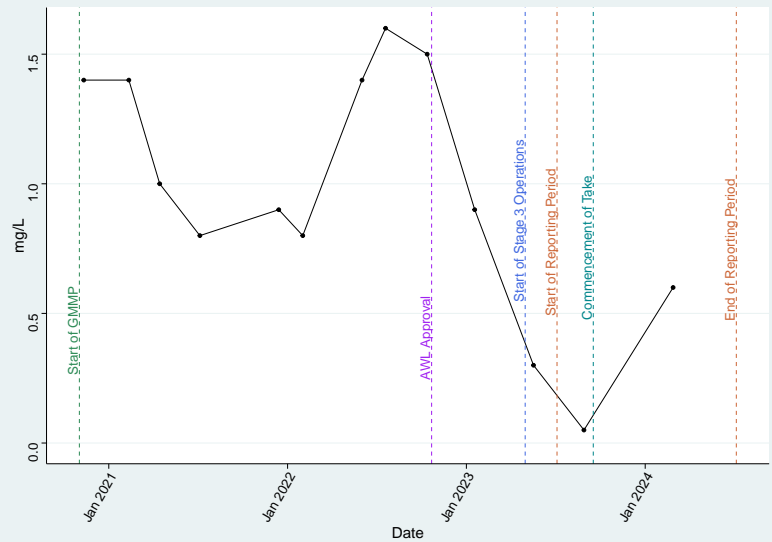
Bore 84PbR (Main Range Volcanics) – TDS
 Mann Kendall Trend Test | $\tau = -0.641$ | $p\text{-value} = 0.00279$ | Negative trend



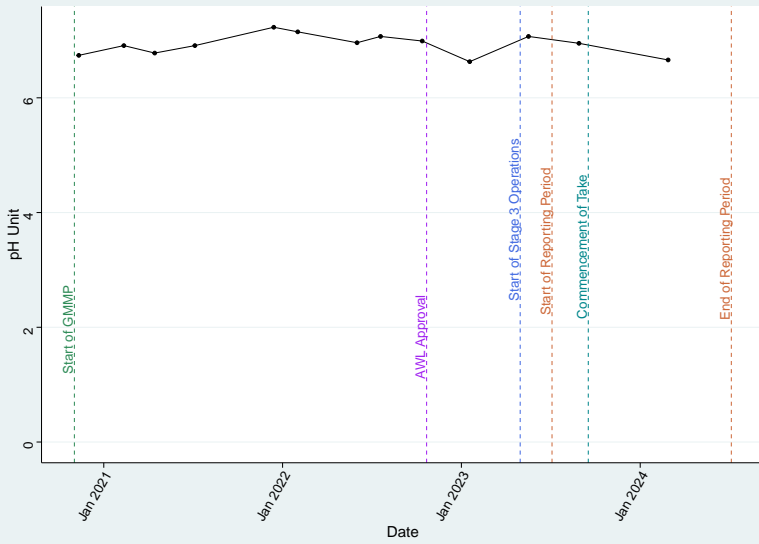
Bore 84PbR (Main Range Volcanics) – TKN
 Mann Kendall Trend Test | $\tau = -0.443$ | $p\text{-value} = 0.0604$ | No trend



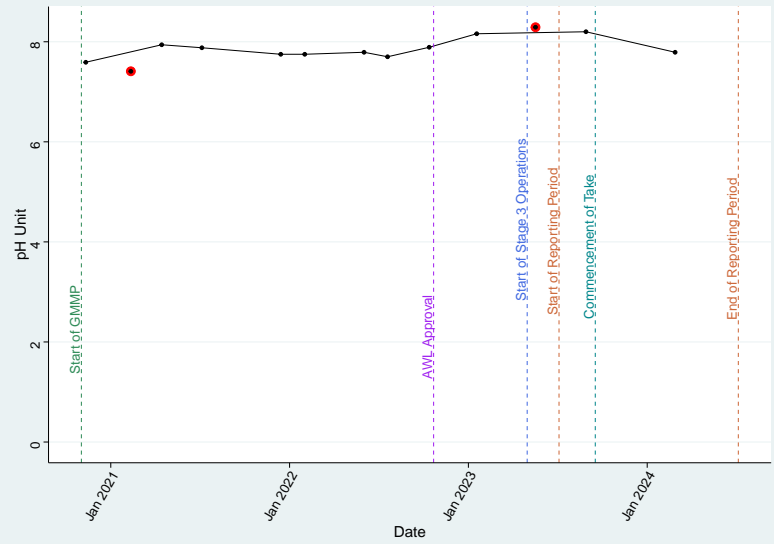
Bore 84PbR (Main Range Volcanics) – Total_N
 Mann Kendall Trend Test | $\tau = -0.358$ | $p\text{-value} = 0.109$ | No trend



Bore 84PbR (Main Range Volcanics) – pH_Field
 Mann Kendall Trend Test | $\tau = 0.026$ | $p\text{-value} = 0.951$ | No trend

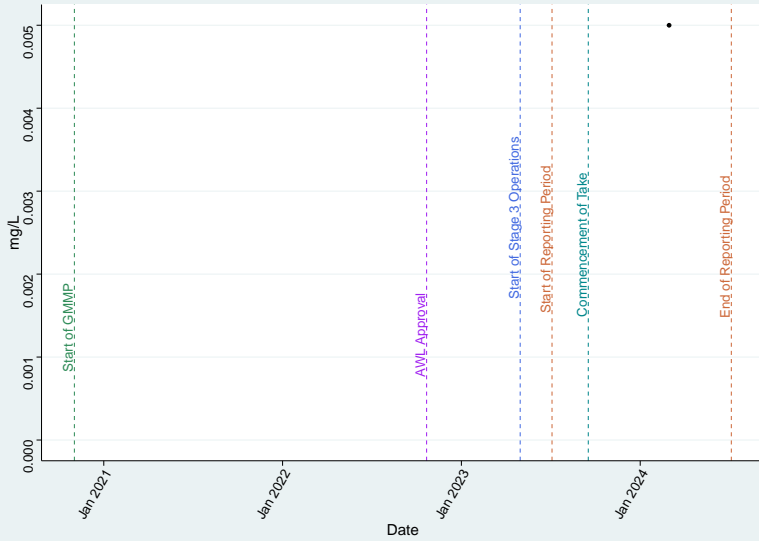


Bore 84PbR (Main Range Volcanics) – pH_Lab
 Mann Kendall Trend Test | $\tau = 0.442$ | $p\text{-value} = 0.0433$ | Positive trend



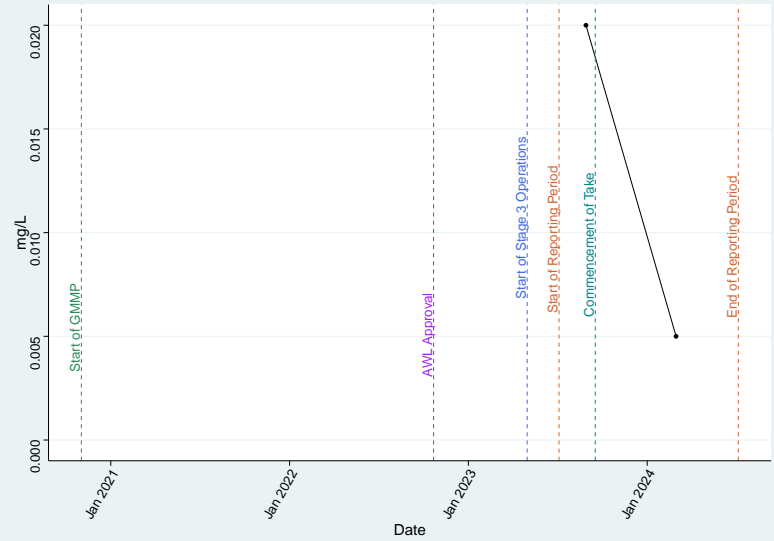
Bore A1 (Cain Creek Alluvium) – Al_diss

Mann Kendall Trend Test | $\tau =$ Not enough data | $p\text{-value} =$ Not enough data | Not evaluated



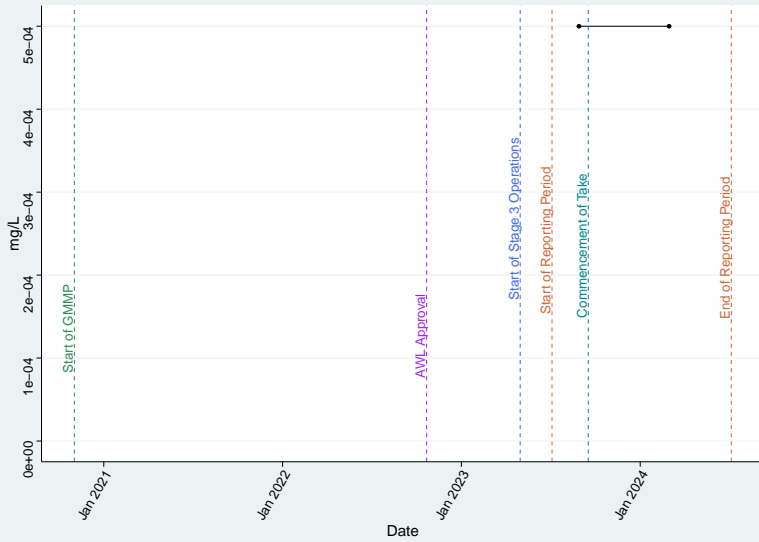
Bore A1 (Cain Creek Alluvium) – Ammonia as N

Mann Kendall Trend Test | $\tau =$ Not enough data | $p\text{-value} =$ Not enough data | Not evaluated



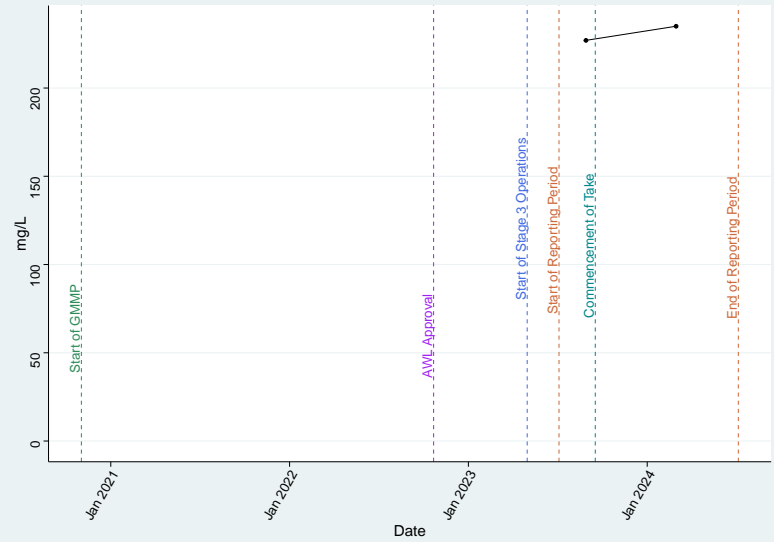
Bore A1 (Cain Creek Alluvium) – As_diss

Mann Kendall Trend Test | $\tau =$ Not enough data | $p\text{-value} =$ Not enough data | Not evaluated



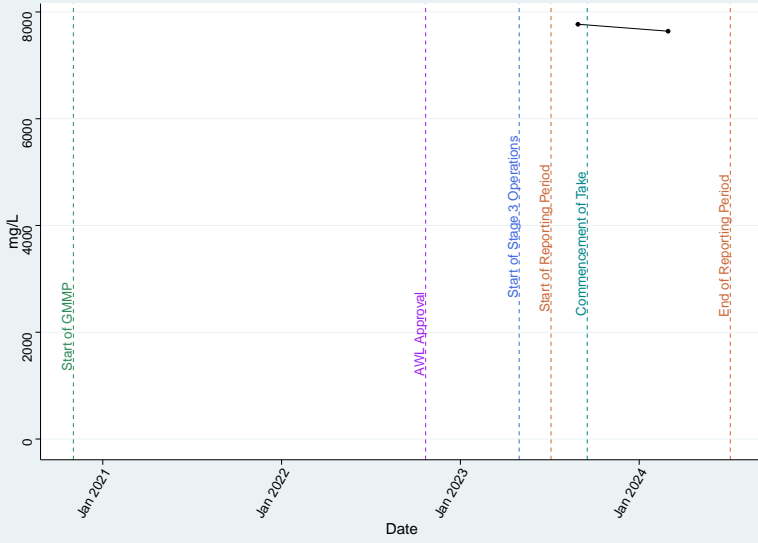
Bore A1 (Cain Creek Alluvium) – Ca

Mann Kendall Trend Test | $\tau =$ Not enough data | $p\text{-value} =$ Not enough data | Not evaluated



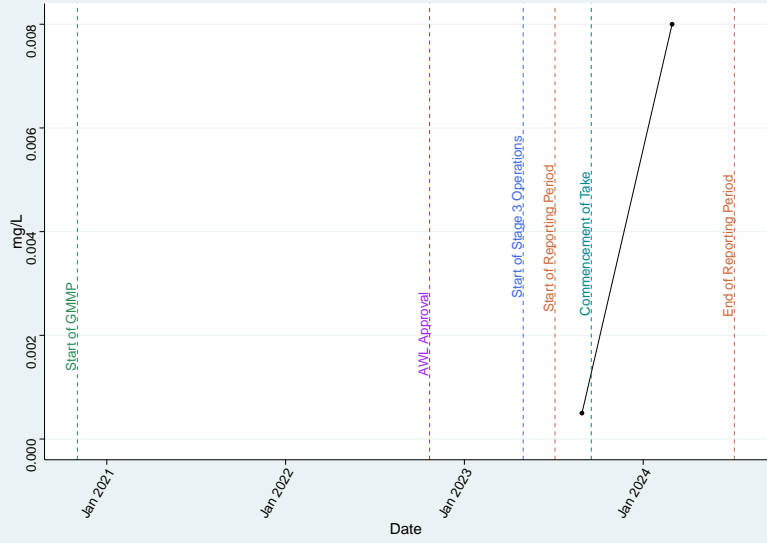
Bore A1 (Cain Creek Alluvium) – Cl

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



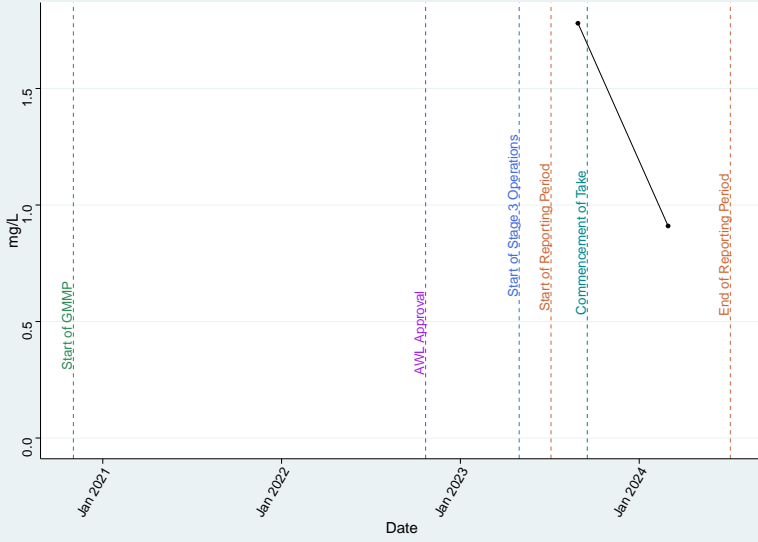
Bore A1 (Cain Creek Alluvium) – Cu_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



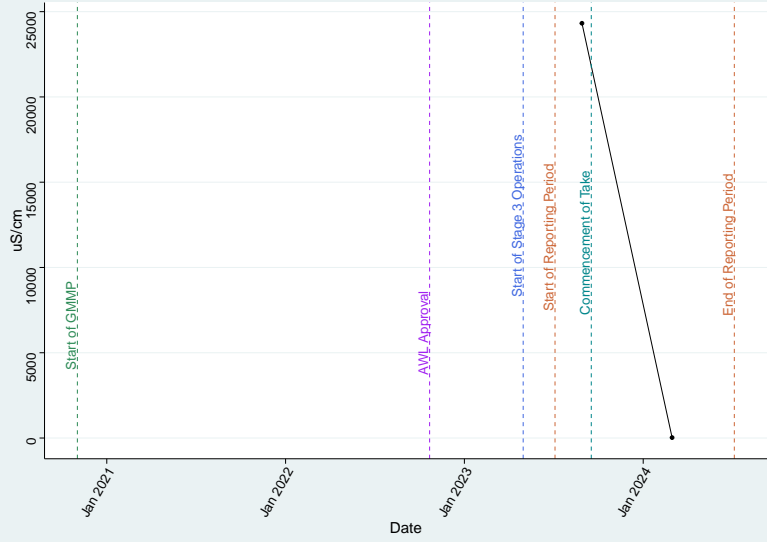
Bore A1 (Cain Creek Alluvium) – DO_Field

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



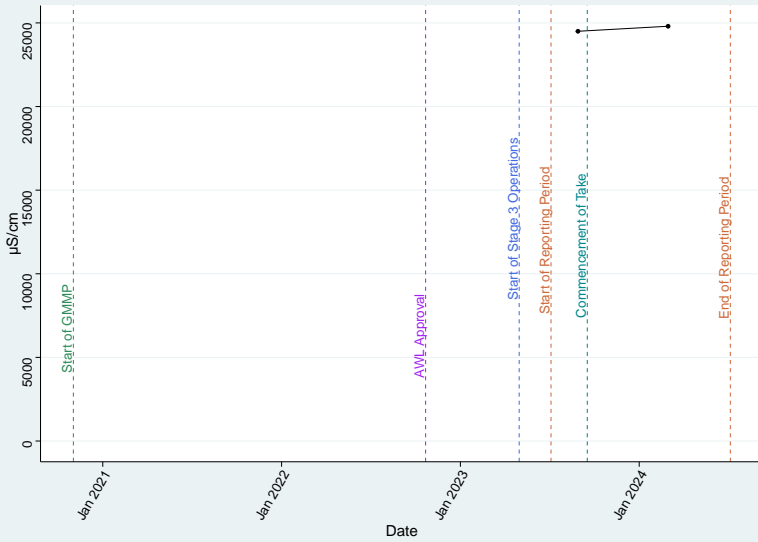
Bore A1 (Cain Creek Alluvium) – EC_Field

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



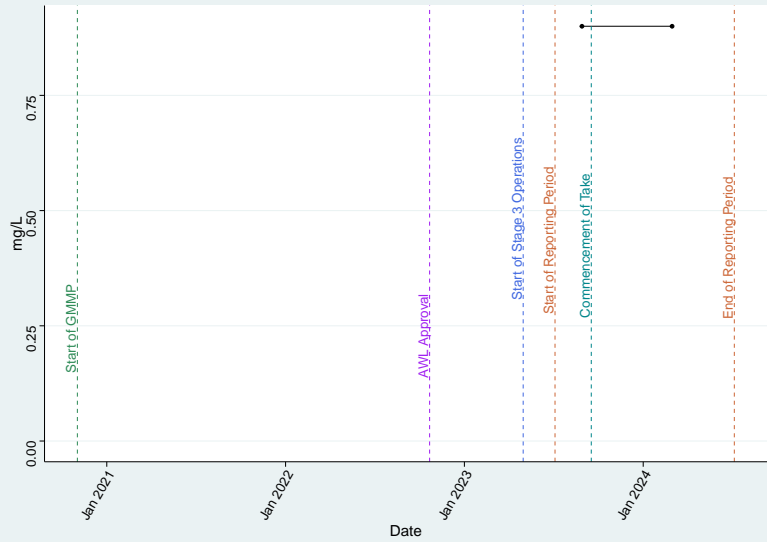
Bore A1 (Cain Creek Alluvium) – EC_Lab

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



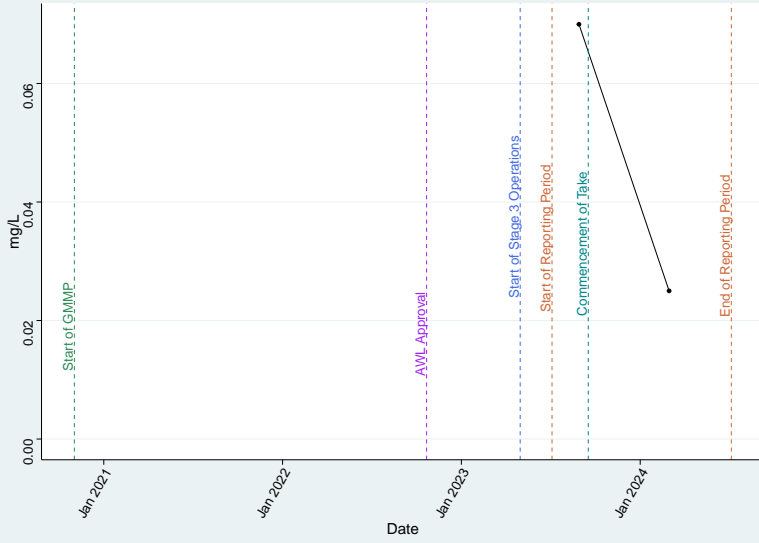
Bore A1 (Cain Creek Alluvium) – F

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



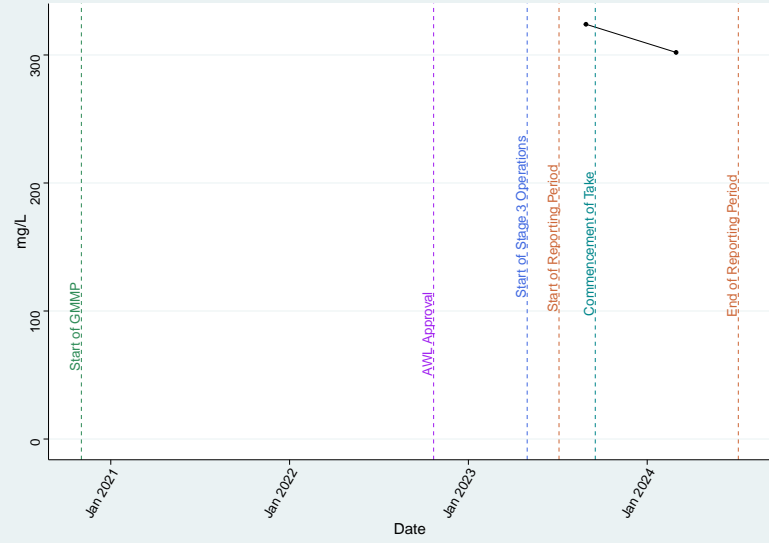
Bore A1 (Cain Creek Alluvium) – Fe_{diss}

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



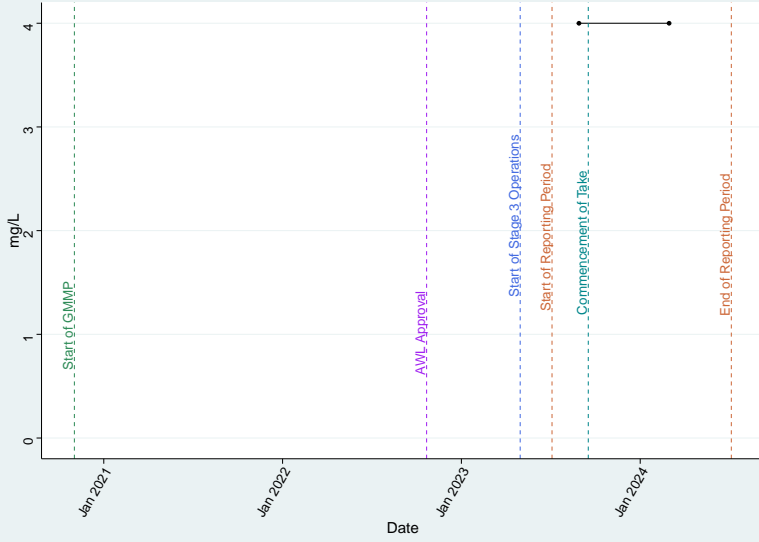
Bore A1 (Cain Creek Alluvium) – HCO₃

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



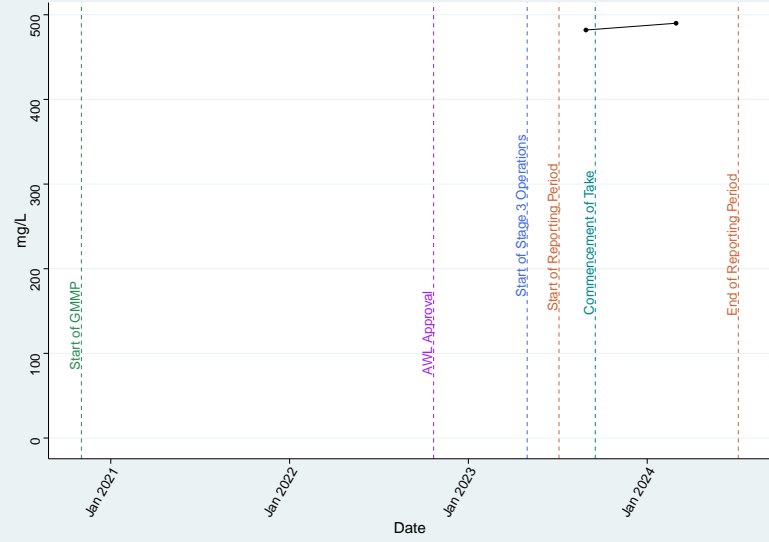
Bore A1 (Cain Creek Alluvium) – K

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



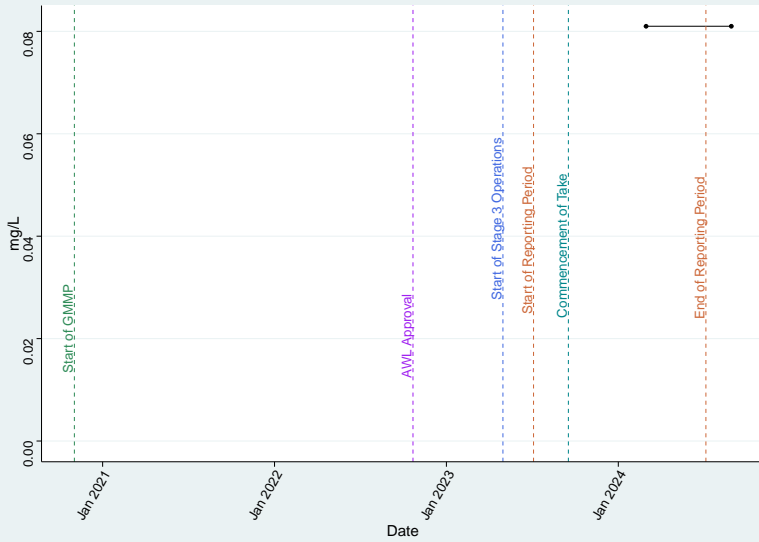
Bore A1 (Cain Creek Alluvium) – Mg

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



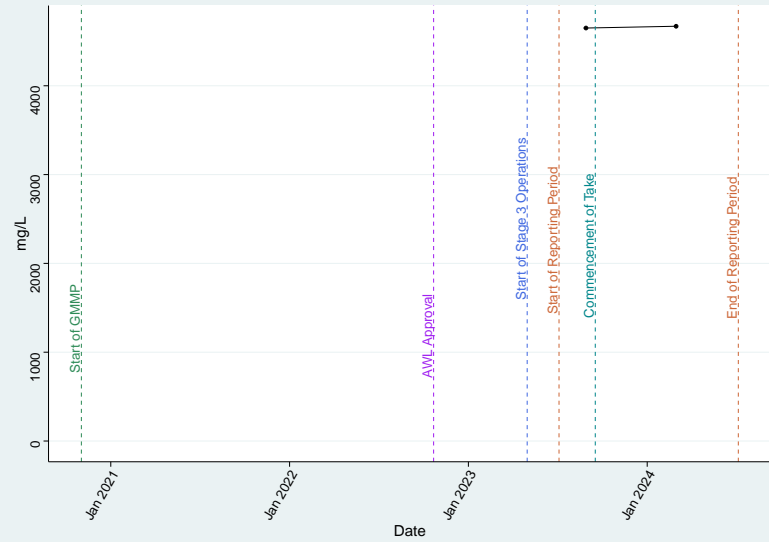
Bore A1 (Cain Creek Alluvium) – Mn_{diss}

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



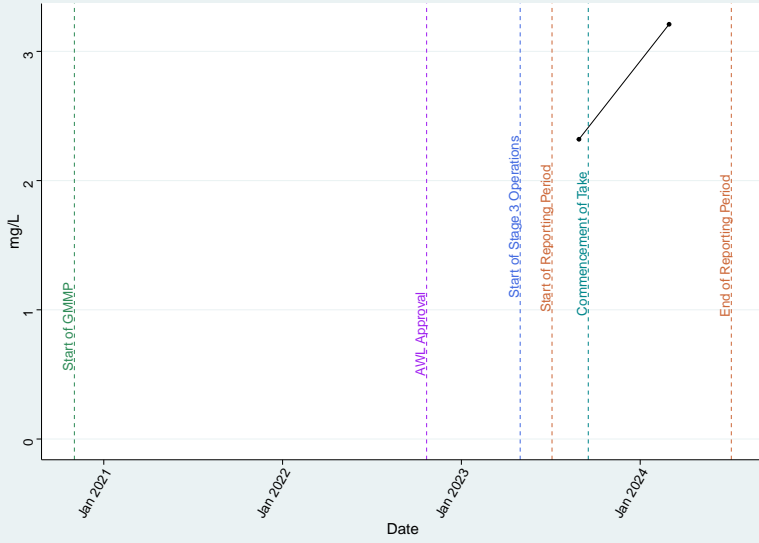
Bore A1 (Cain Creek Alluvium) – Na

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



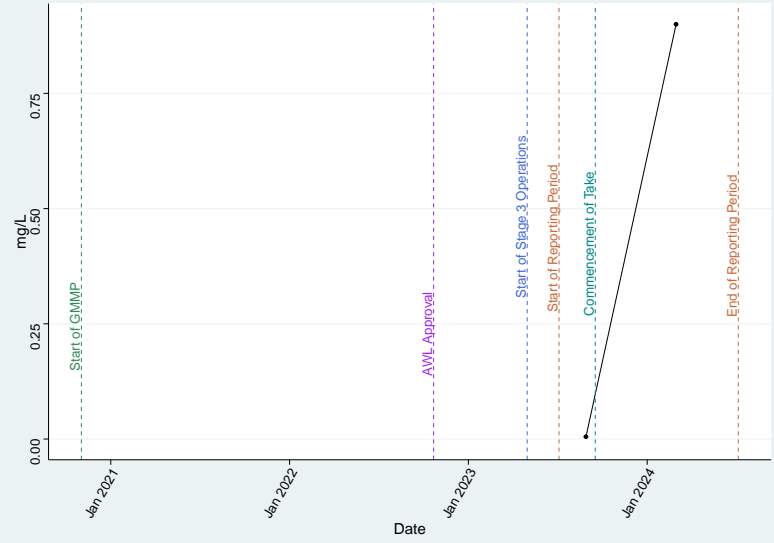
Bore A1 (Cain Creek Alluvium) – Nitrate as N

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



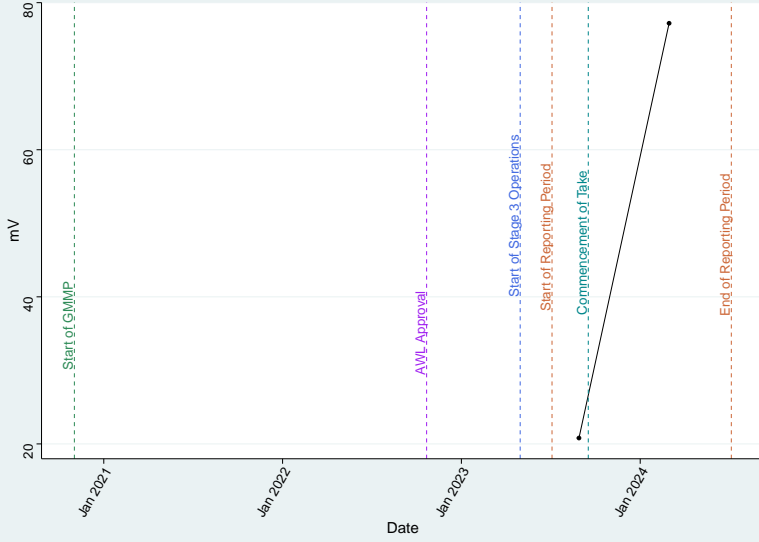
Bore A1 (Cain Creek Alluvium) – Nitrite as N

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



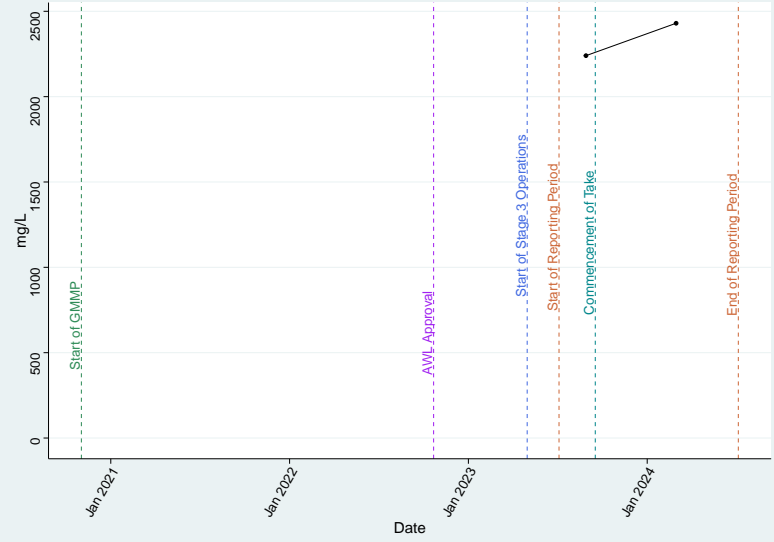
Bore A1 (Cain Creek Alluvium) – Redox_Field

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



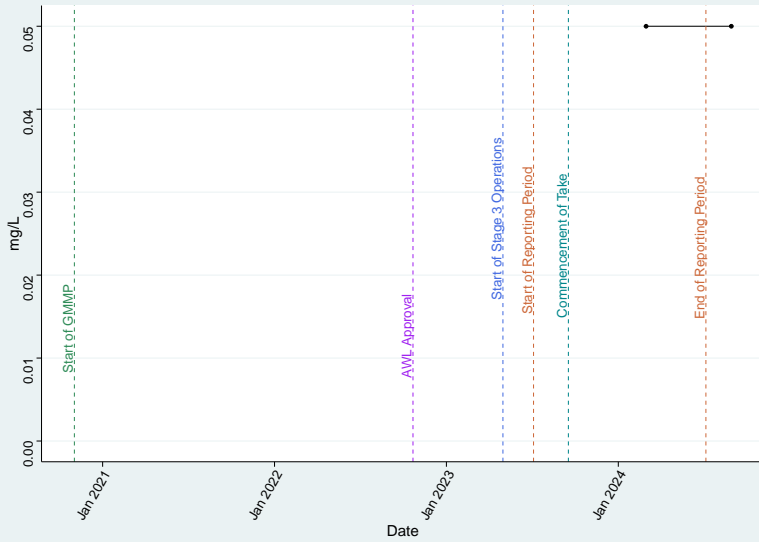
Bore A1 (Cain Creek Alluvium) – SO4

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



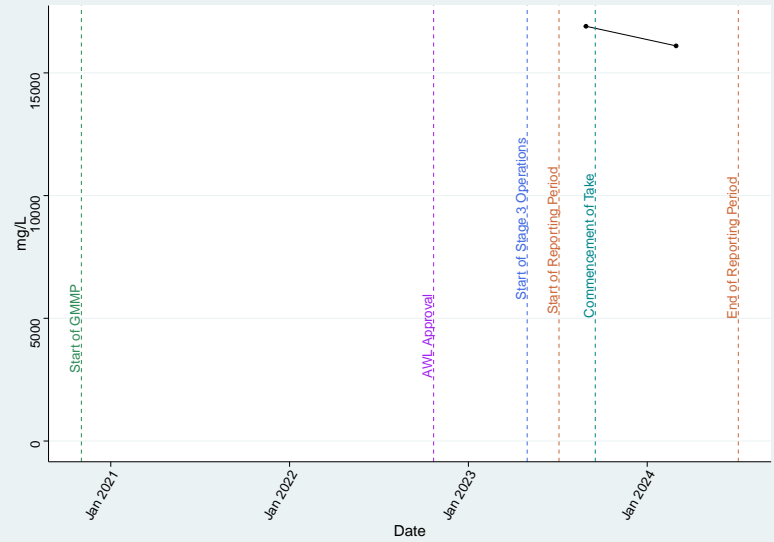
Bore A1 (Cain Creek Alluvium) – Se_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



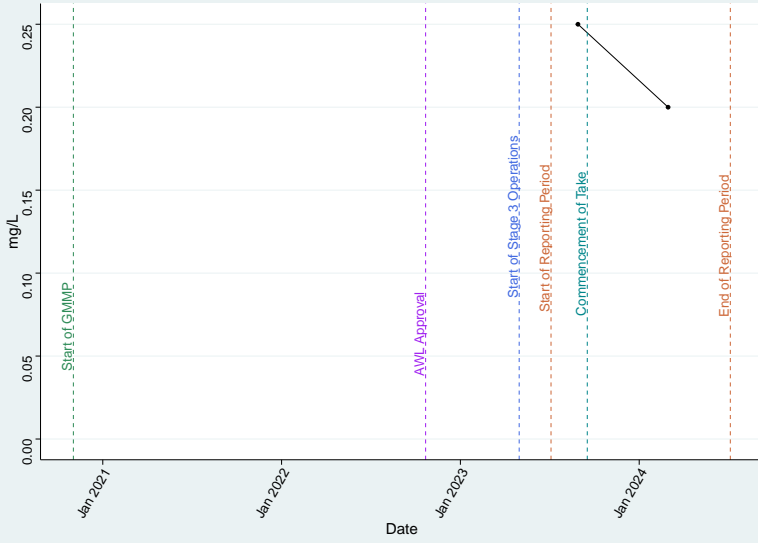
Bore A1 (Cain Creek Alluvium) – TDS

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



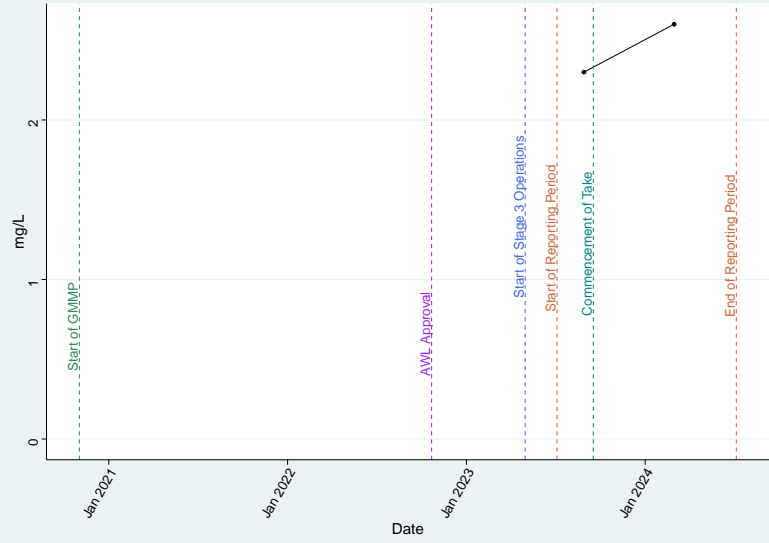
Bore A1 (Cain Creek Alluvium) – TKN

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



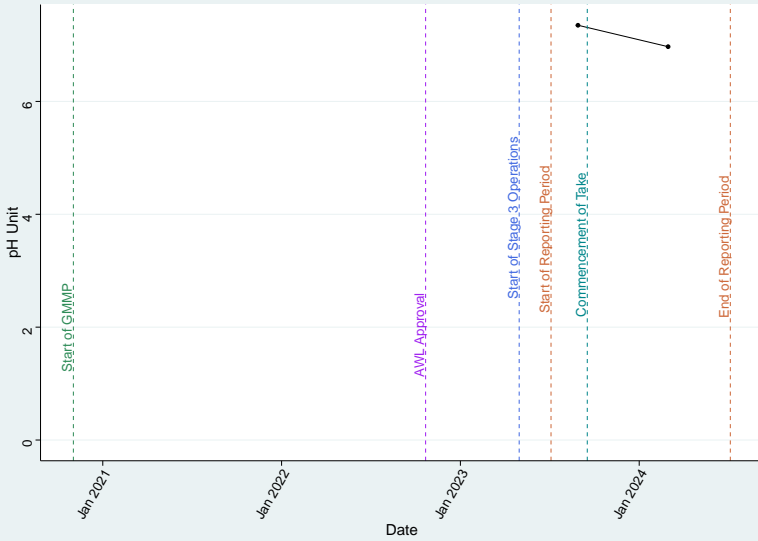
Bore A1 (Cain Creek Alluvium) – Total_N

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



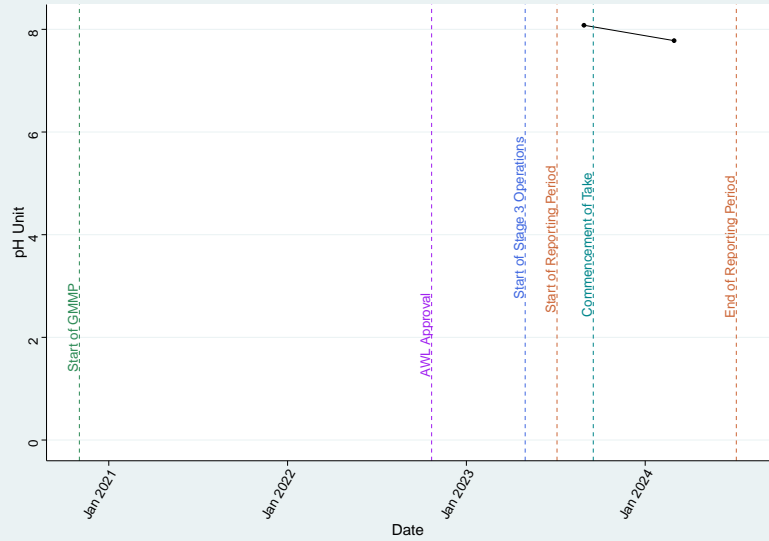
Bore A1 (Cain Creek Alluvium) – pH_Field

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



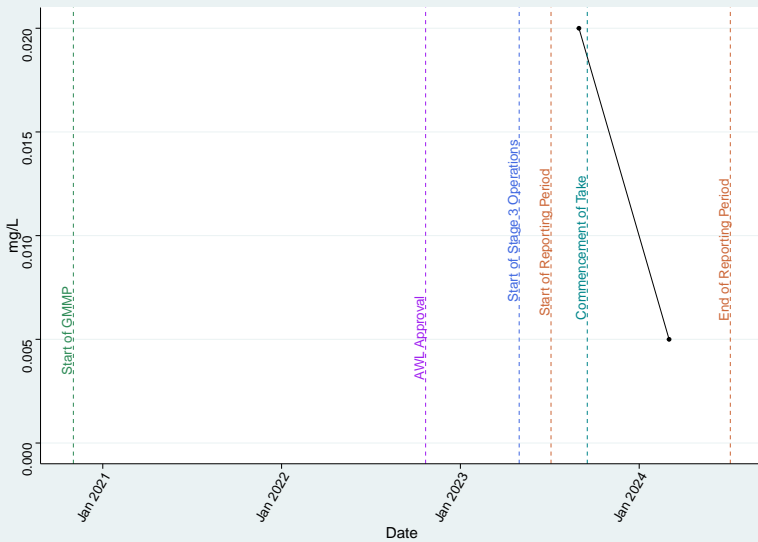
Bore A1 (Cain Creek Alluvium) – pH_Lab

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



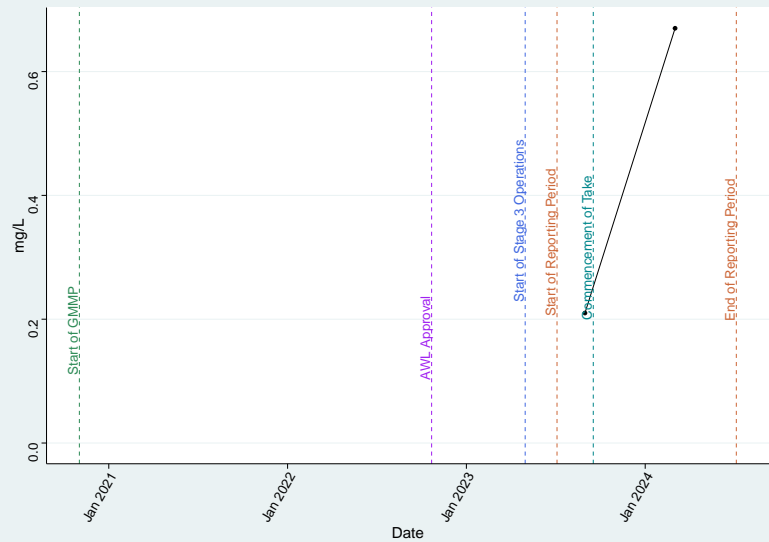
Bore ACS1 (Acland Coal Sequence) – Al_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



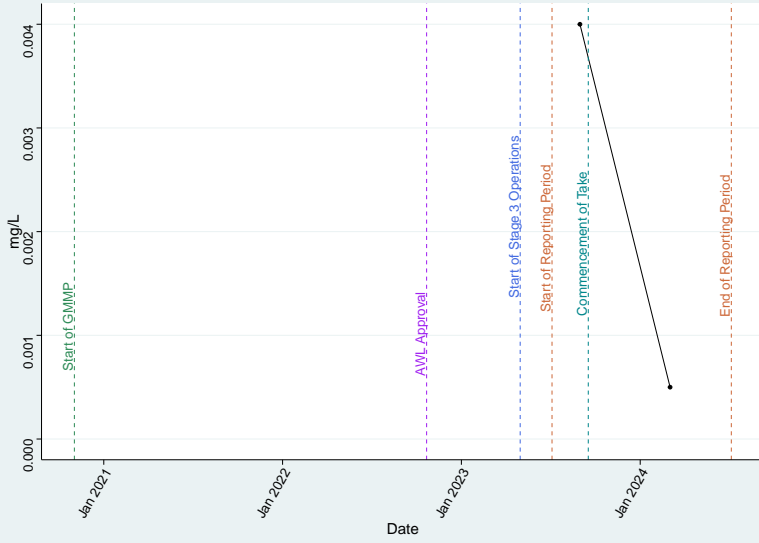
Bore ACS1 (Acland Coal Sequence) – Ammonia as N

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



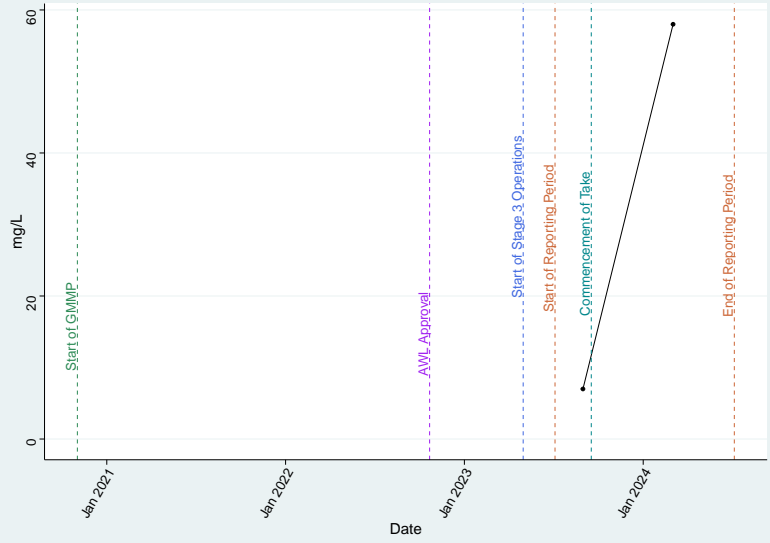
Bore ACS1 (Acland Coal Sequence) – As_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



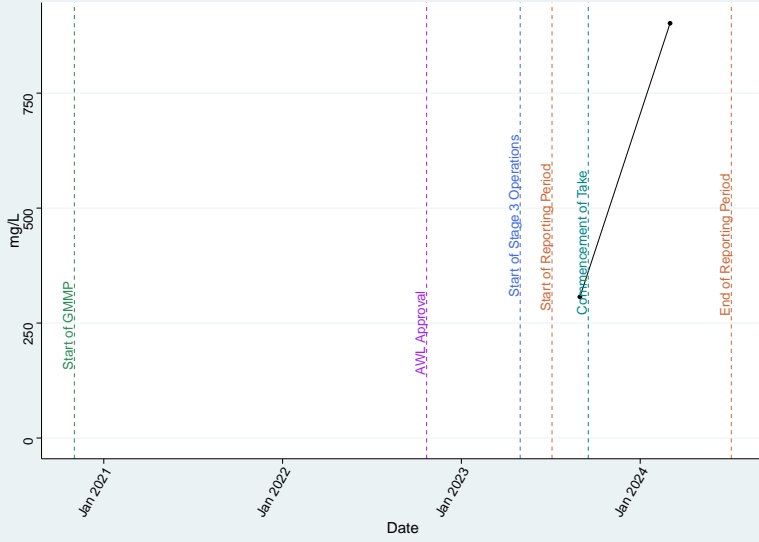
Bore ACS1 (Acland Coal Sequence) – Ca

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



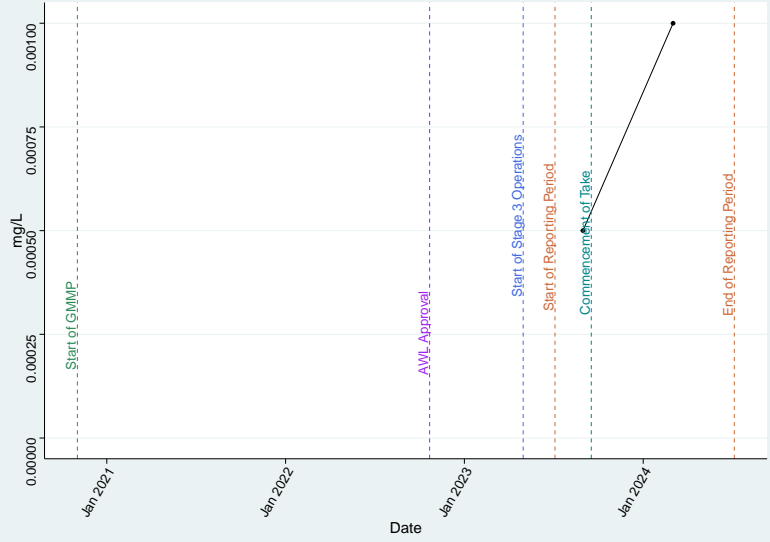
Bore ACS1 (Acland Coal Sequence) – Cl

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



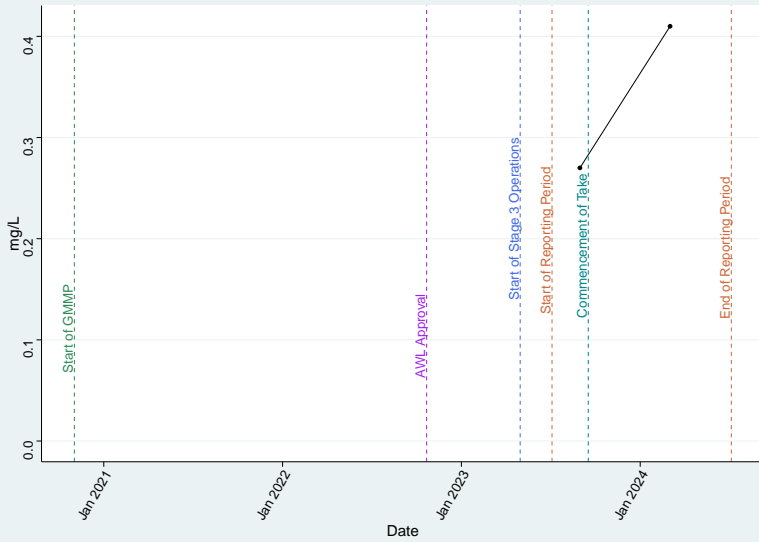
Bore ACS1 (Acland Coal Sequence) – Cu_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



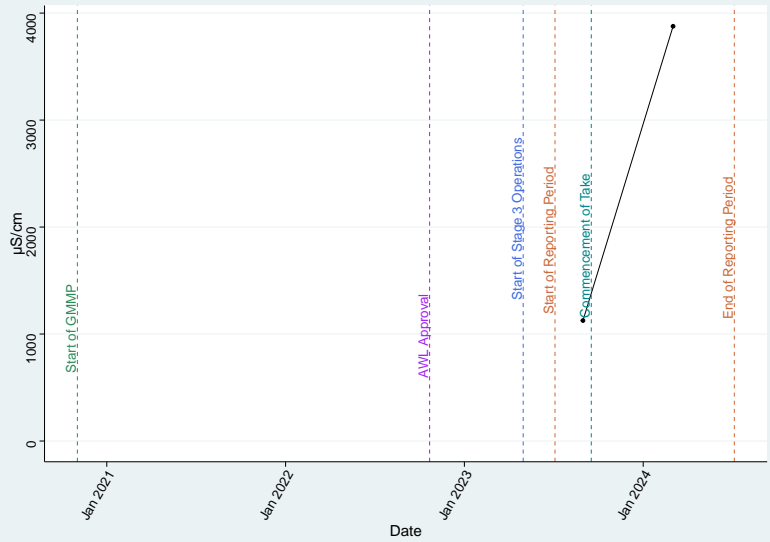
Bore ACS1 (Acland Coal Sequence) – DO_Field

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



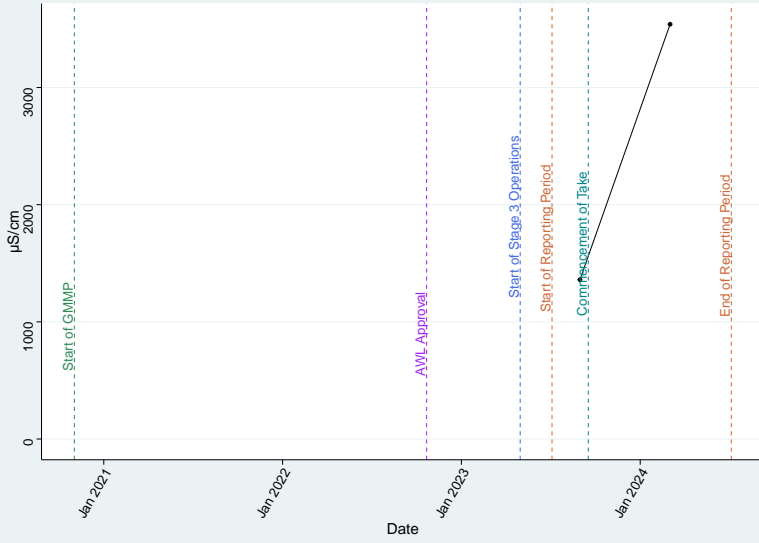
Bore ACS1 (Acland Coal Sequence) – EC_Field

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



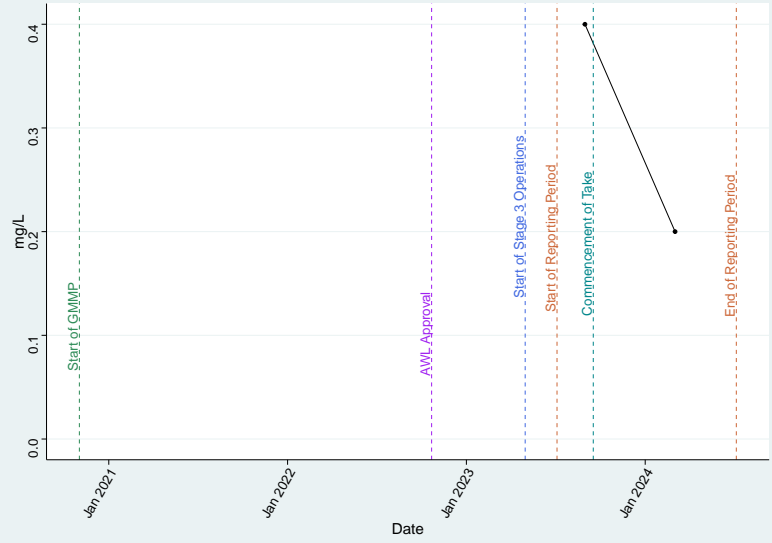
Bore ACS1 (Acland Coal Sequence) – EC_Lab

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



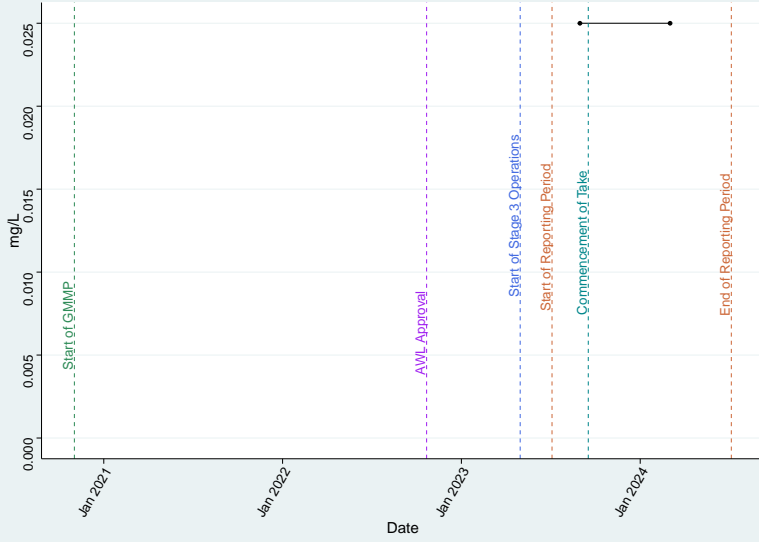
Bore ACS1 (Acland Coal Sequence) – F

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



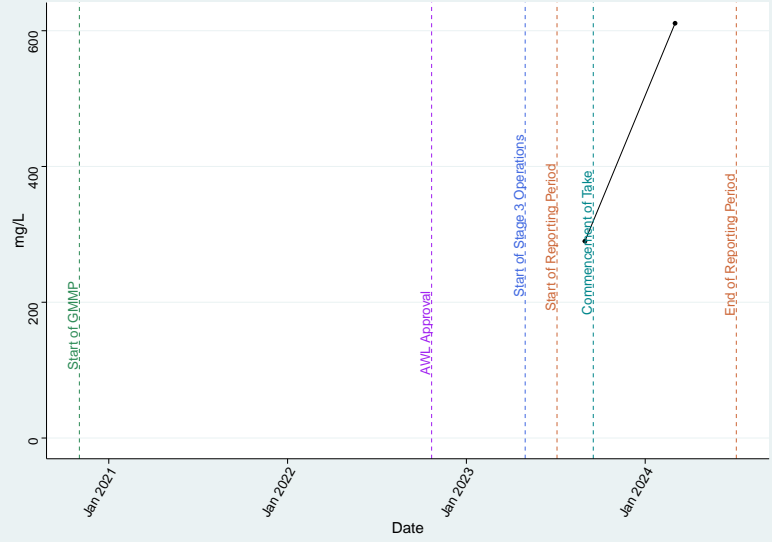
Bore ACS1 (Acland Coal Sequence) – Fe_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



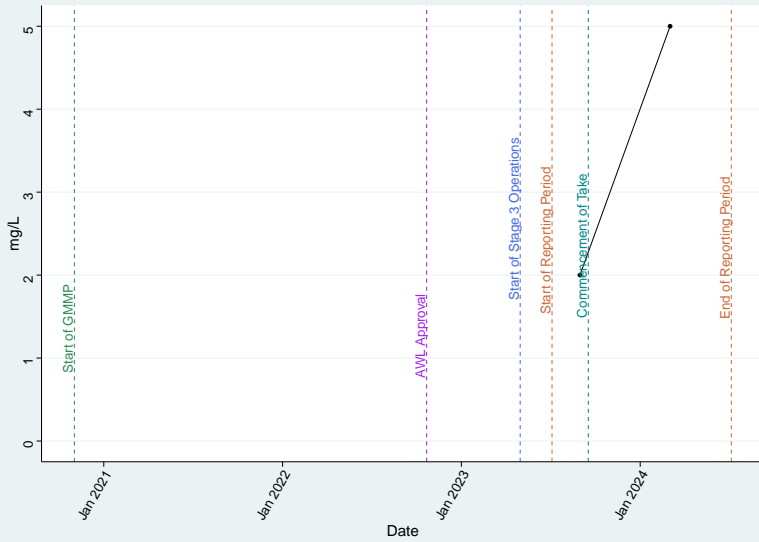
Bore ACS1 (Acland Coal Sequence) – HCO3

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



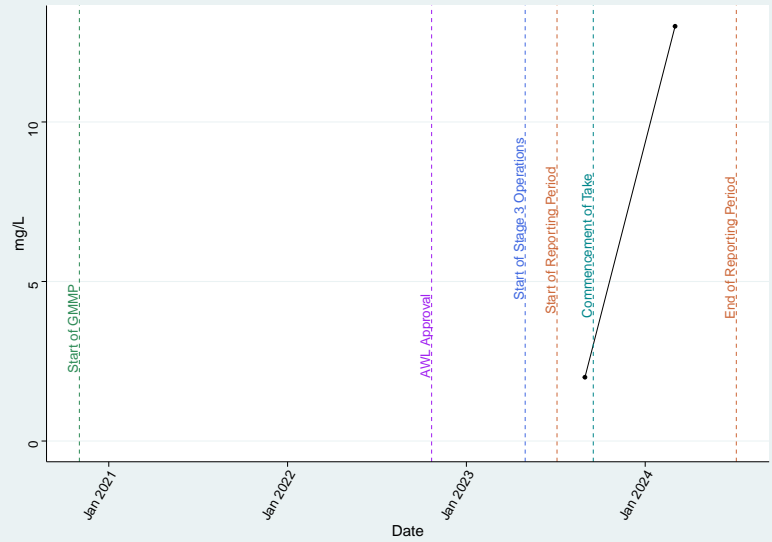
Bore ACS1 (Acland Coal Sequence) – K

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



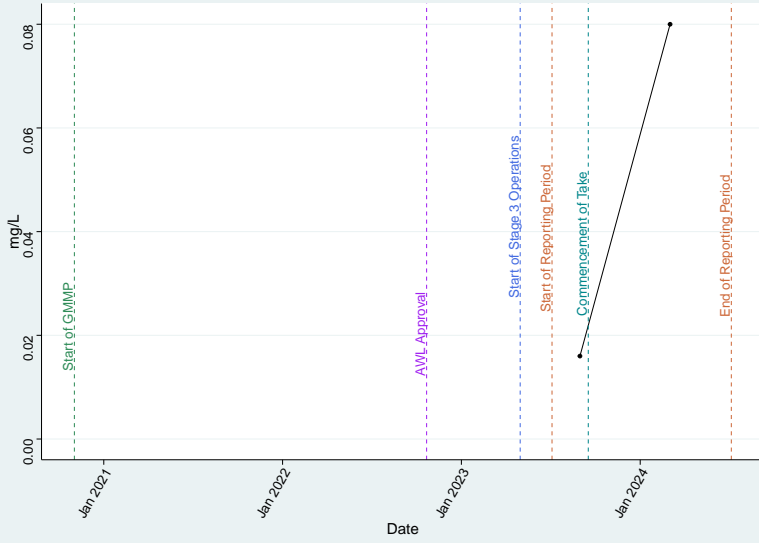
Bore ACS1 (Acland Coal Sequence) – Mg

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



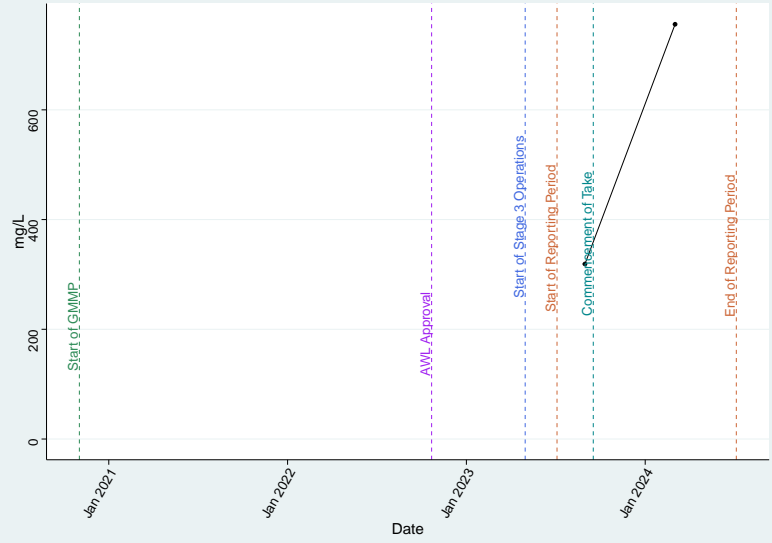
Bore ACS1 (Acland Coal Sequence) – Mn_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



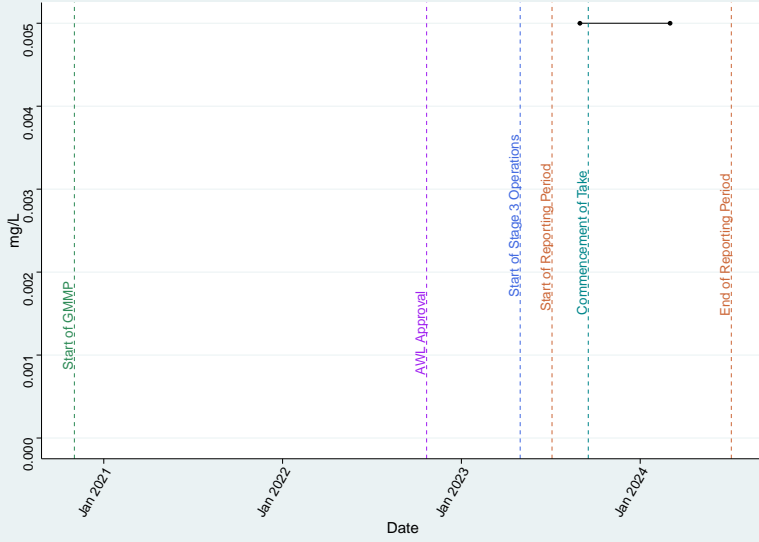
Bore ACS1 (Acland Coal Sequence) – Na

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



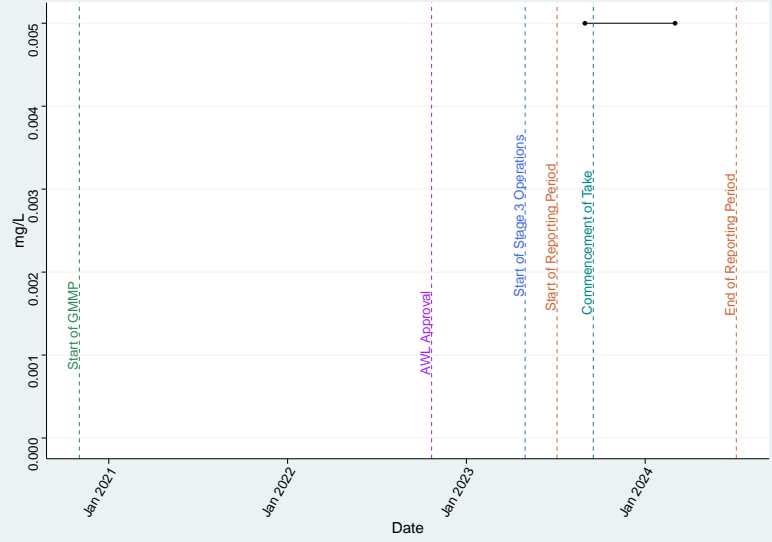
Bore ACS1 (Acland Coal Sequence) – Nitrate as N

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



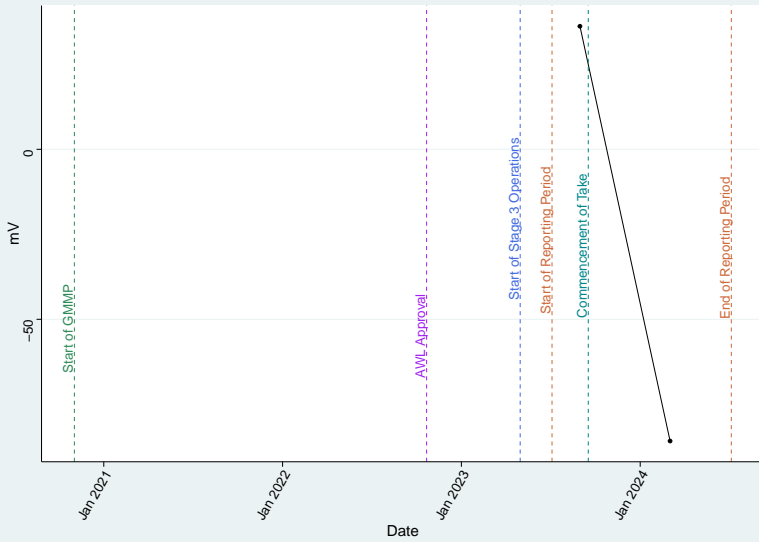
Bore ACS1 (Acland Coal Sequence) – Nitrite as N

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



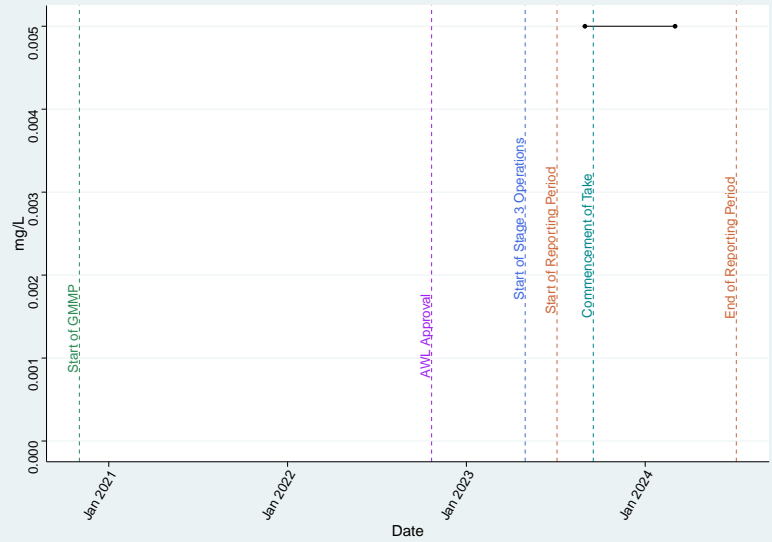
Bore ACS1 (Acland Coal Sequence) – Redox_Field

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



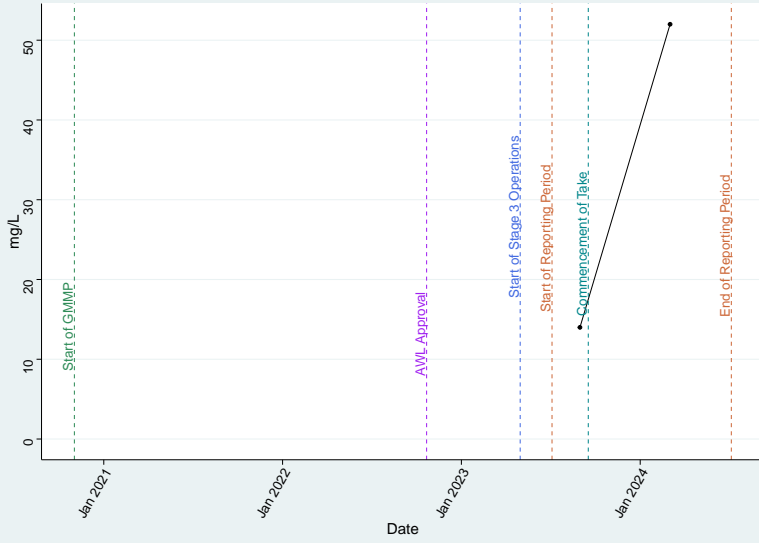
Bore ACS1 (Acland Coal Sequence) – Se_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



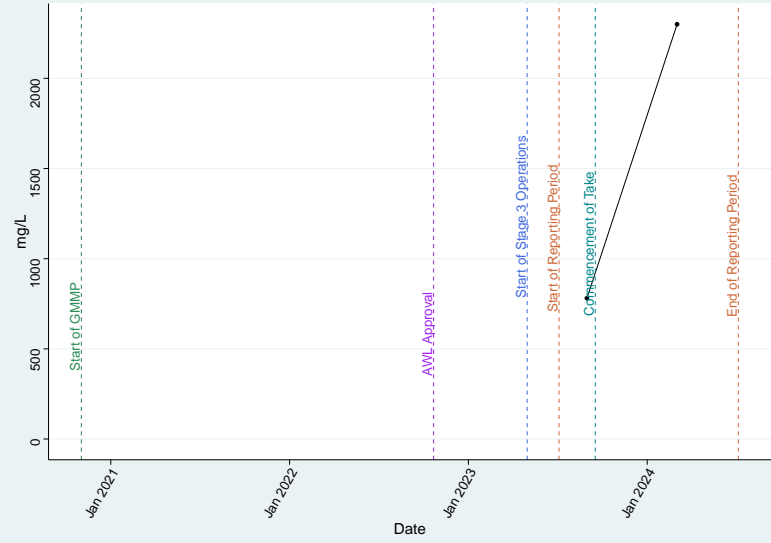
Bore ACS1 (Acland Coal Sequence) – SO4

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



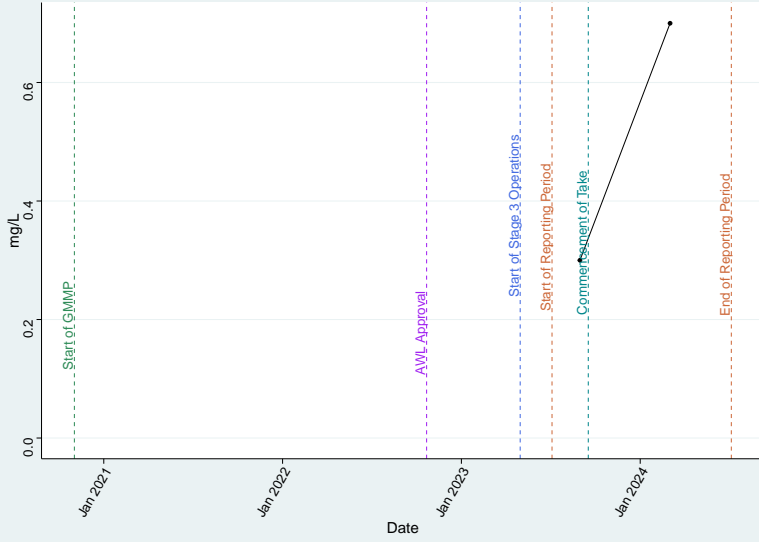
Bore ACS1 (Acland Coal Sequence) – TDS

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



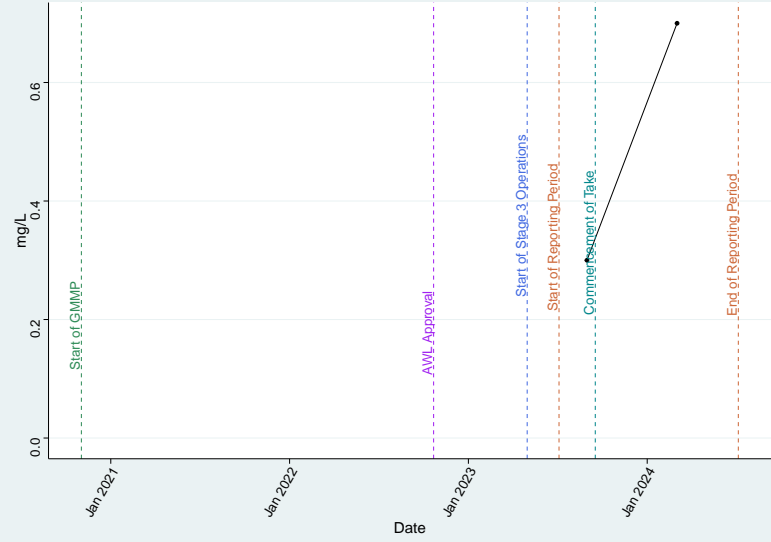
Bore ACS1 (Acland Coal Sequence) – TKN

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



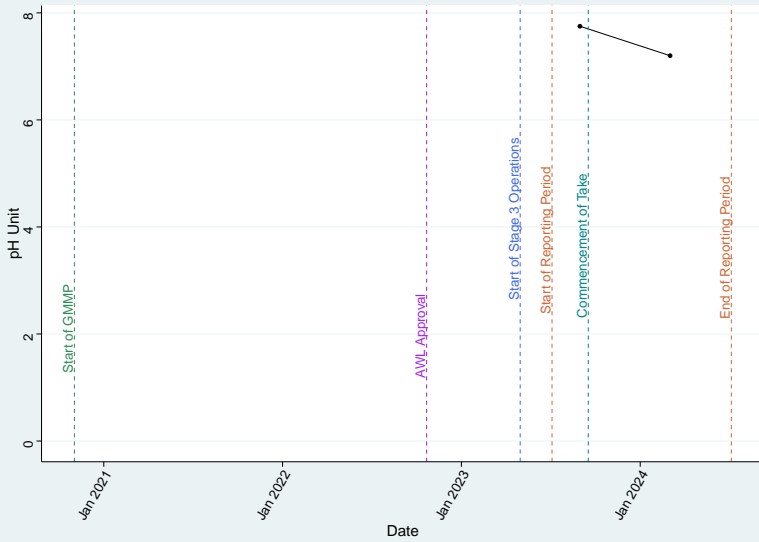
Bore ACS1 (Acland Coal Sequence) – Total_N

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



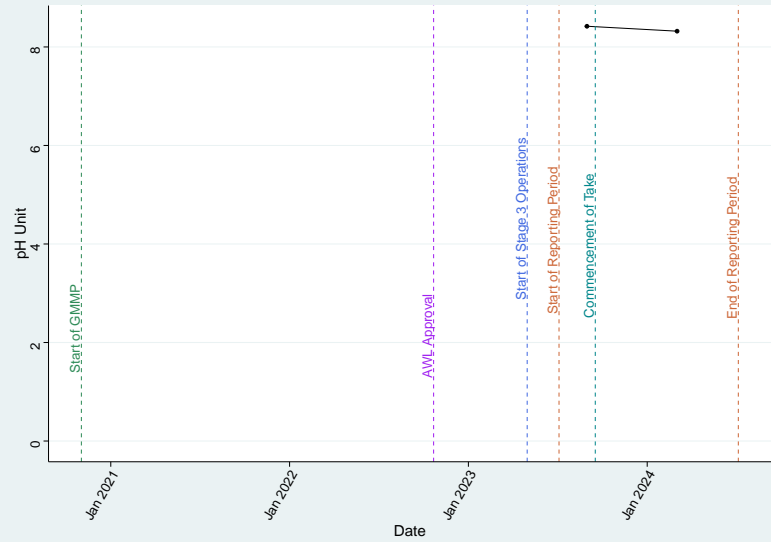
Bore ACS1 (Acland Coal Sequence) – pH_Field

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



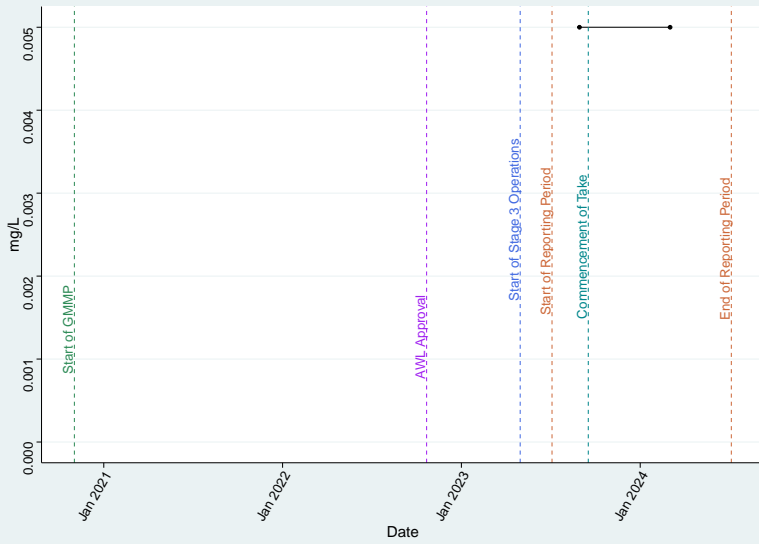
Bore ACS1 (Acland Coal Sequence) – pH_Lab

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



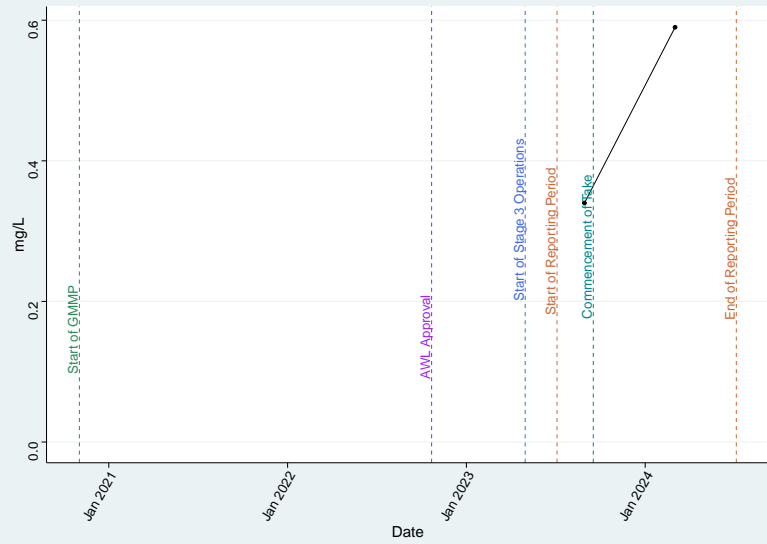
Bore ACS2 (Acland Coal Sequence) – Al_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



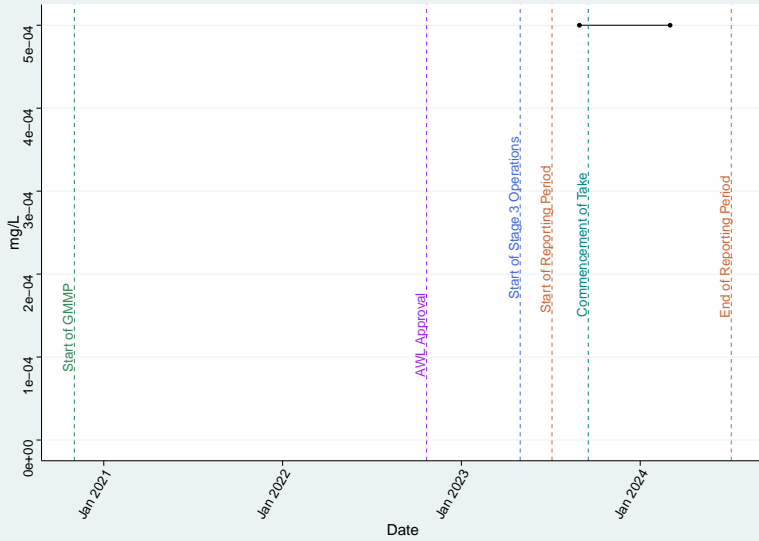
Bore ACS2 (Acland Coal Sequence) – Ammonia as N

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



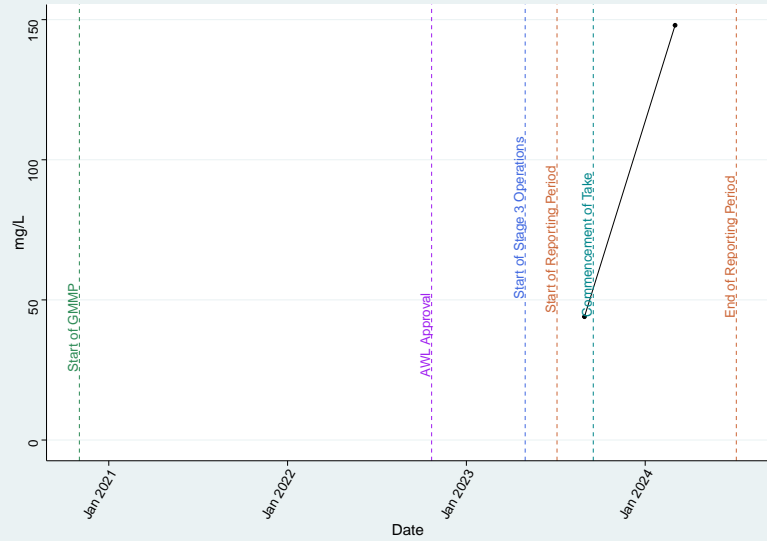
Bore ACS2 (Acland Coal Sequence) – As_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



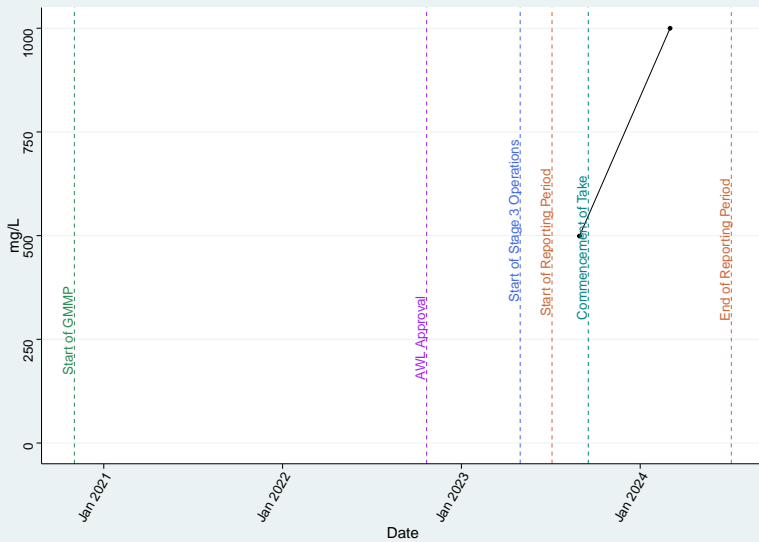
Bore ACS2 (Acland Coal Sequence) – Ca

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



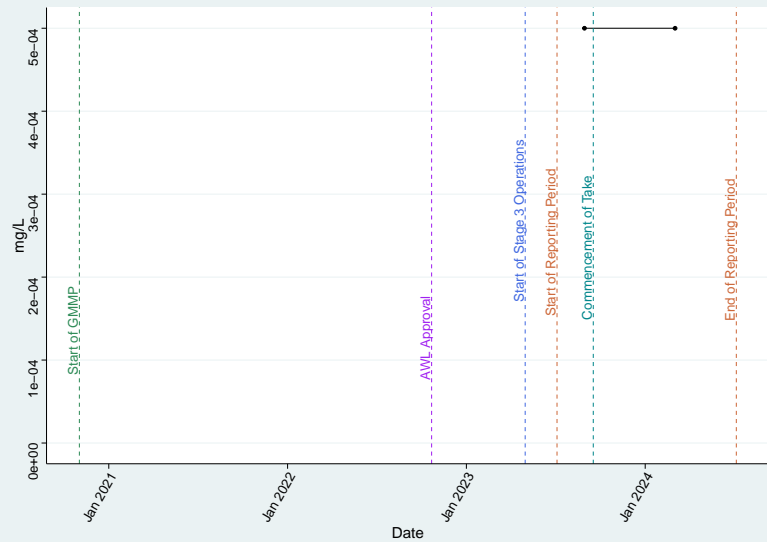
Bore ACS2 (Acland Coal Sequence) – Cl

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



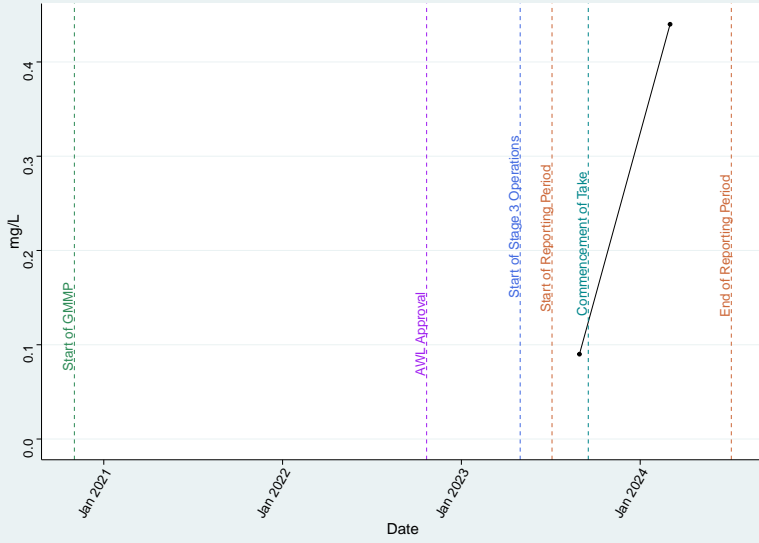
Bore ACS2 (Acland Coal Sequence) – Cu_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



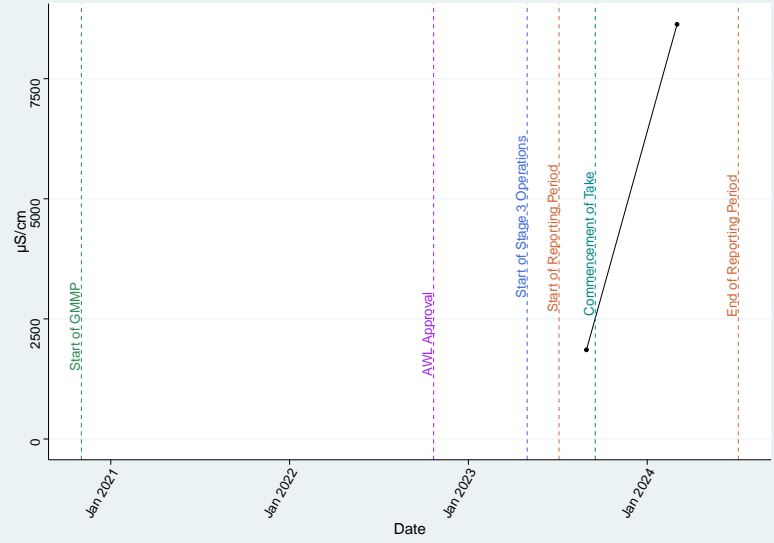
Bore ACS2 (Acland Coal Sequence) – DO_Field

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



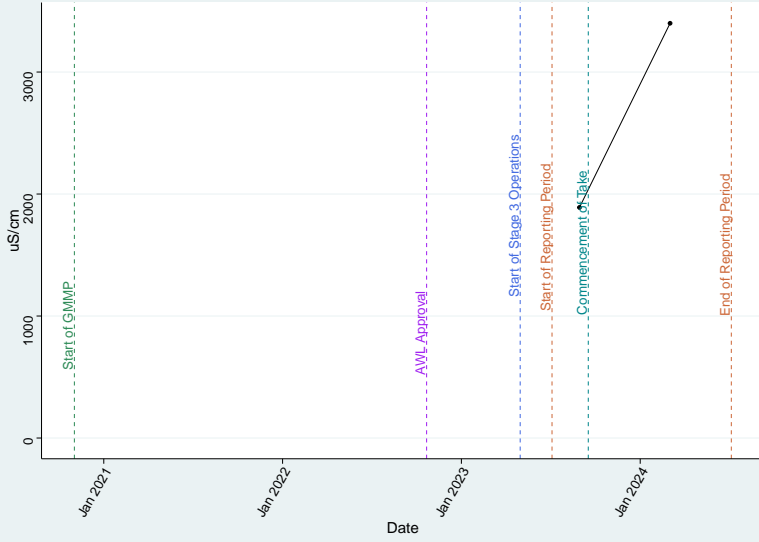
Bore ACS2 (Acland Coal Sequence) – EC_Field

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



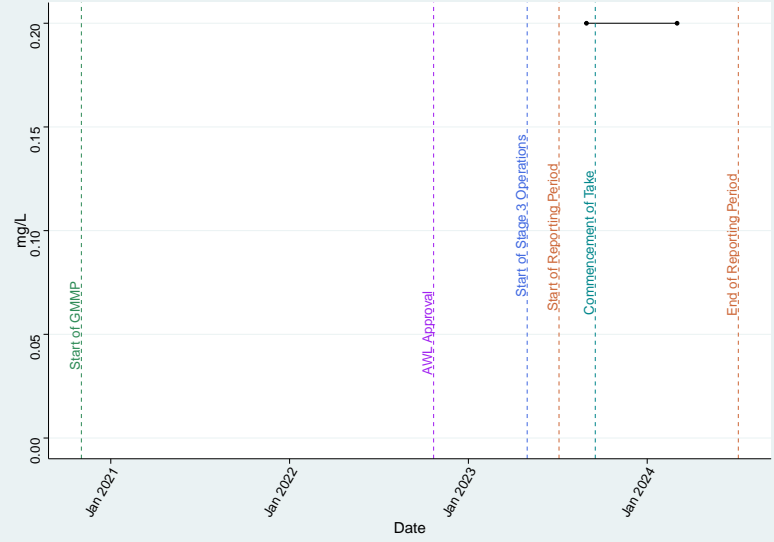
Bore ACS2 (Acland Coal Sequence) – EC_Lab

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



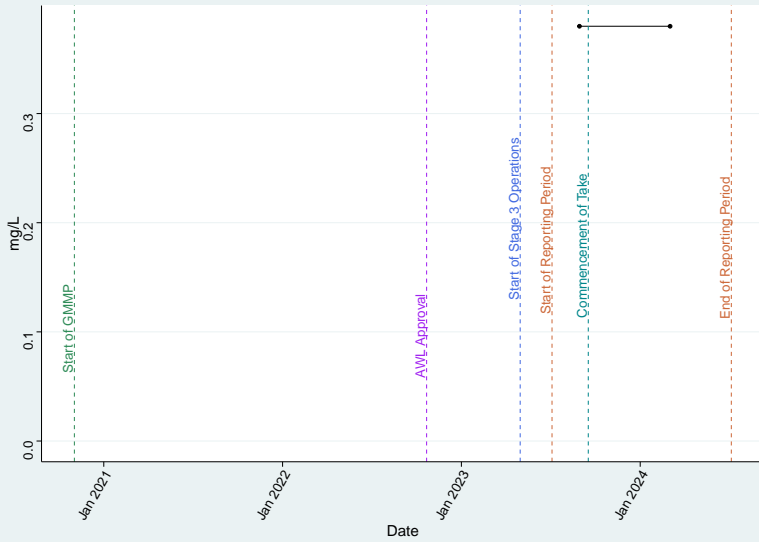
Bore ACS2 (Acland Coal Sequence) – F

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



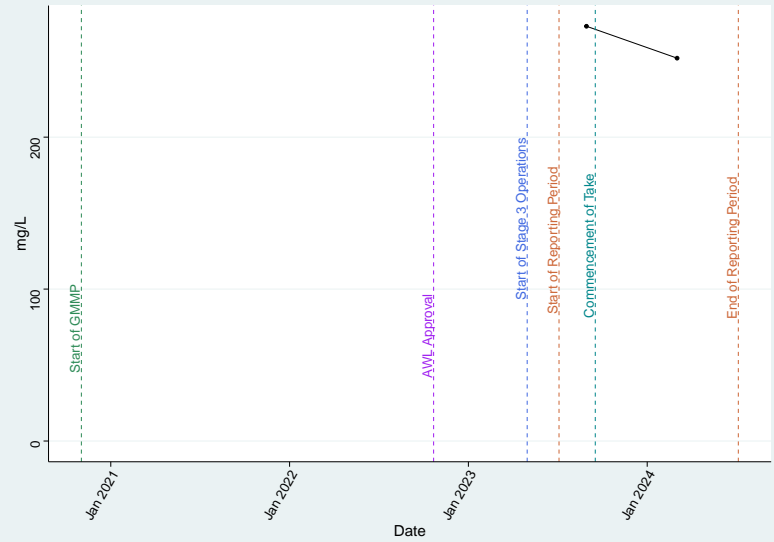
Bore ACS2 (Acland Coal Sequence) – Fe_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



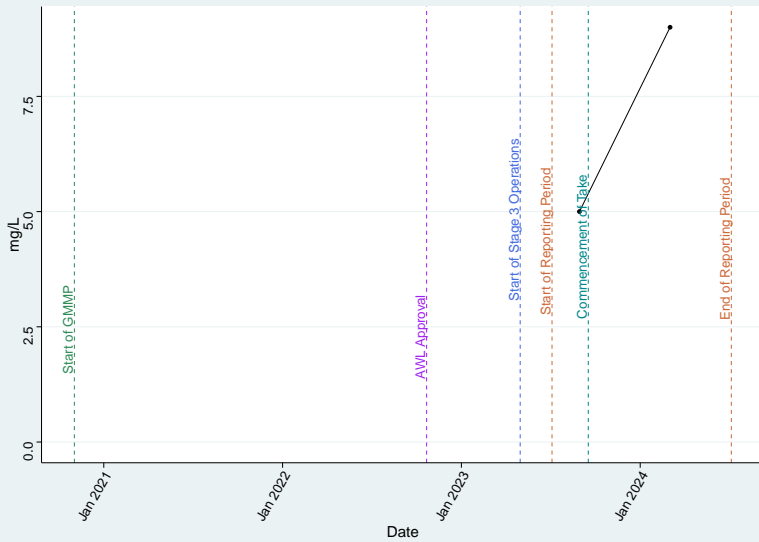
Bore ACS2 (Acland Coal Sequence) – HCO3

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



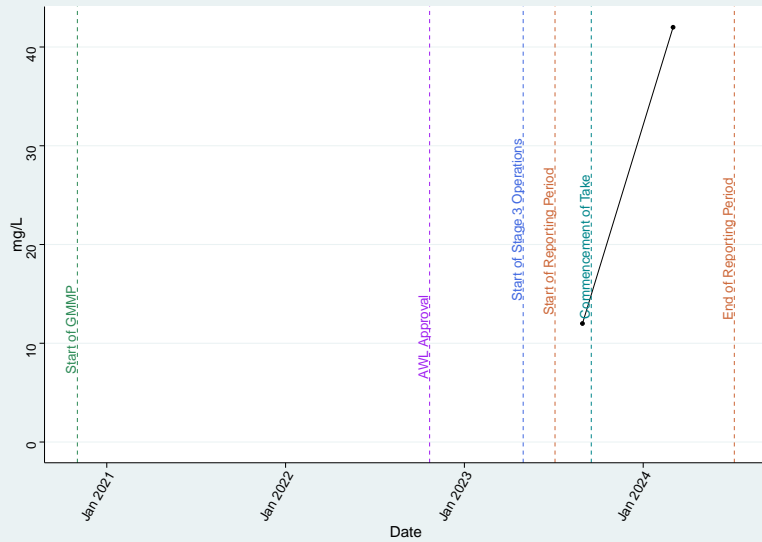
Bore ACS2 (Acland Coal Sequence) – K

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



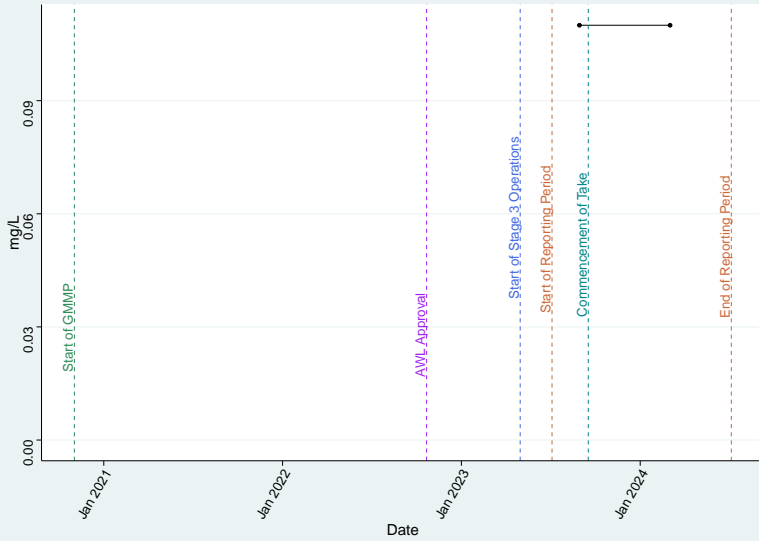
Bore ACS2 (Acland Coal Sequence) – Mg

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



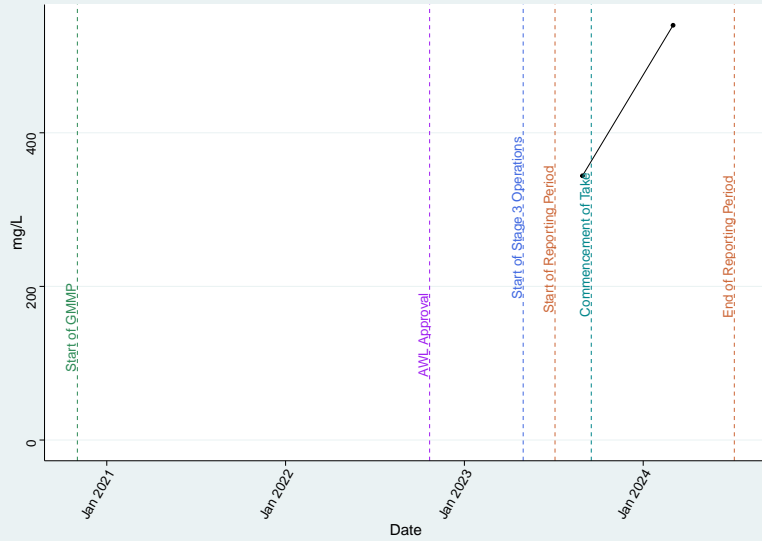
Bore ACS2 (Acland Coal Sequence) – Mn_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



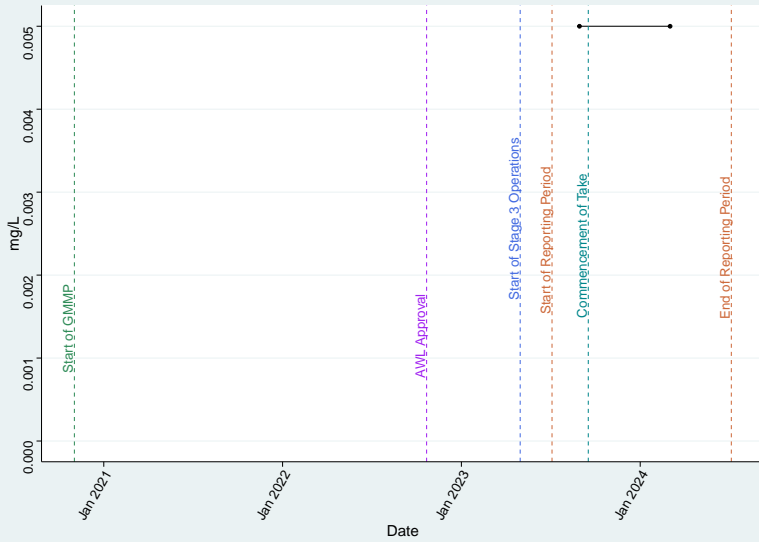
Bore ACS2 (Acland Coal Sequence) – Na

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



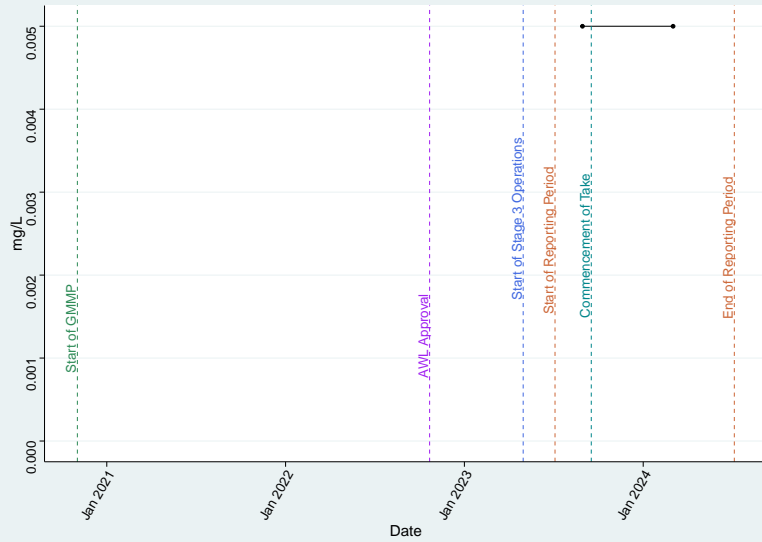
Bore ACS2 (Acland Coal Sequence) – Nitrate as N

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



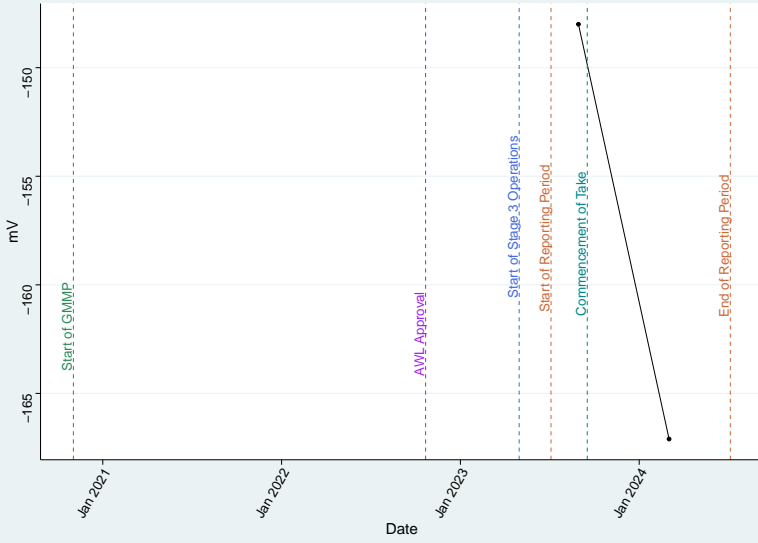
Bore ACS2 (Acland Coal Sequence) – Nitrite as N

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



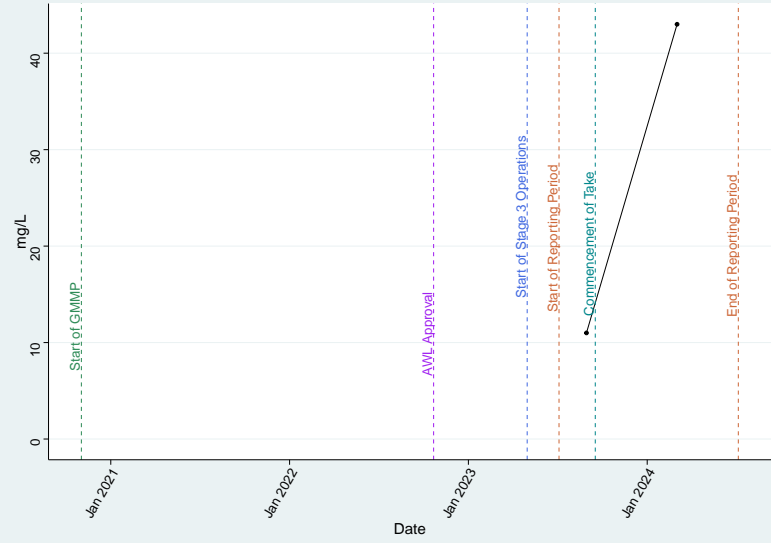
Bore ACS2 (Acland Coal Sequence) – Redox_Field

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



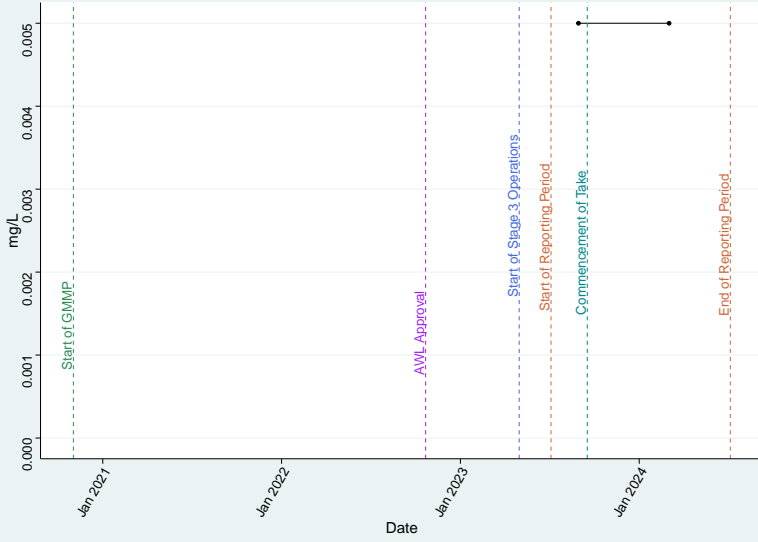
Bore ACS2 (Acland Coal Sequence) – SO4

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



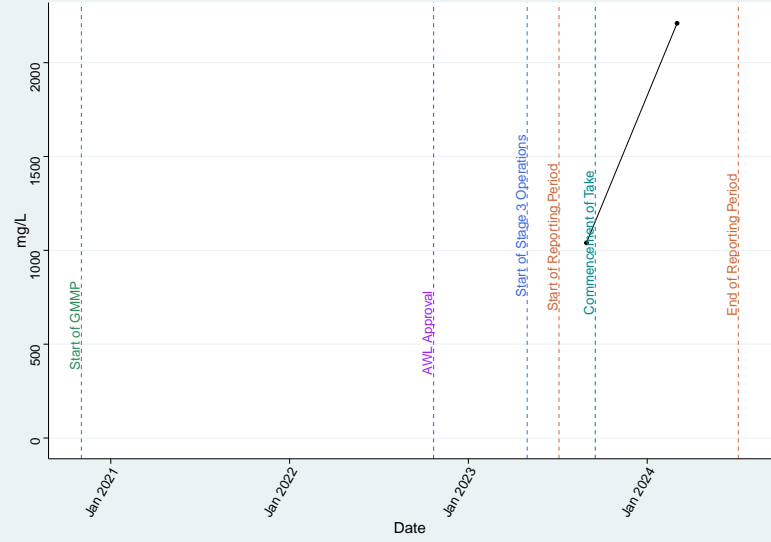
Bore ACS2 (Acland Coal Sequence) – Se_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



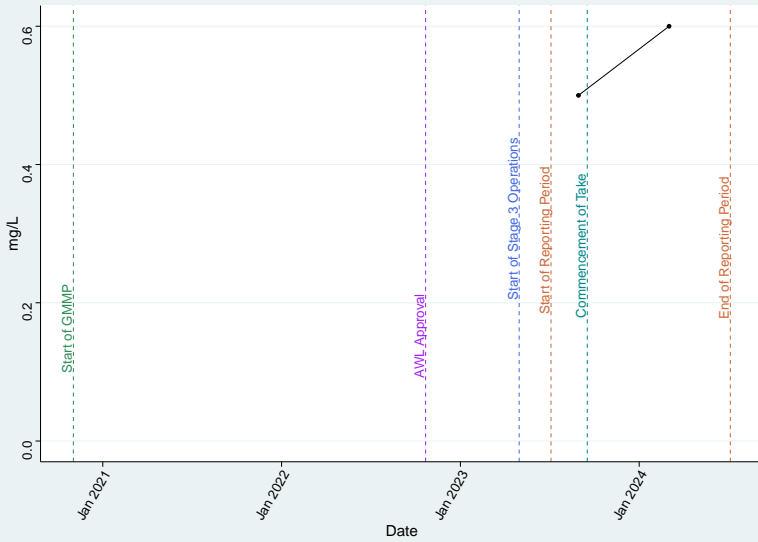
Bore ACS2 (Acland Coal Sequence) – TDS

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



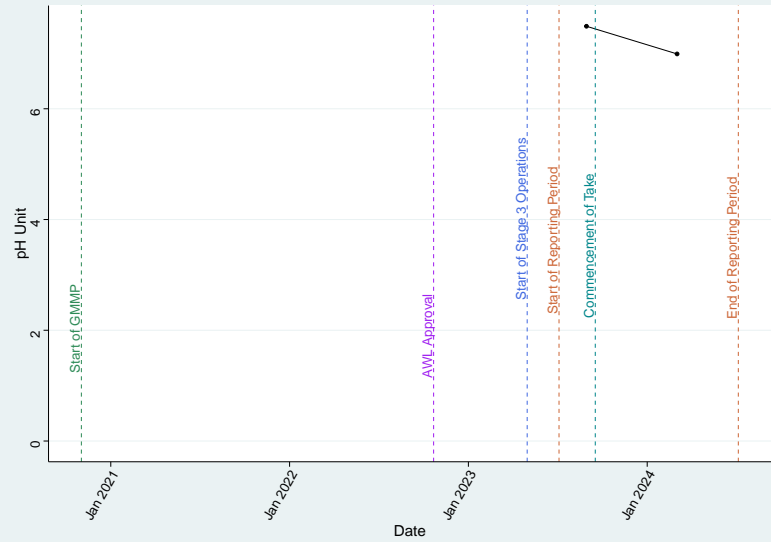
Bore ACS2 (Acland Coal Sequence) – TKN

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



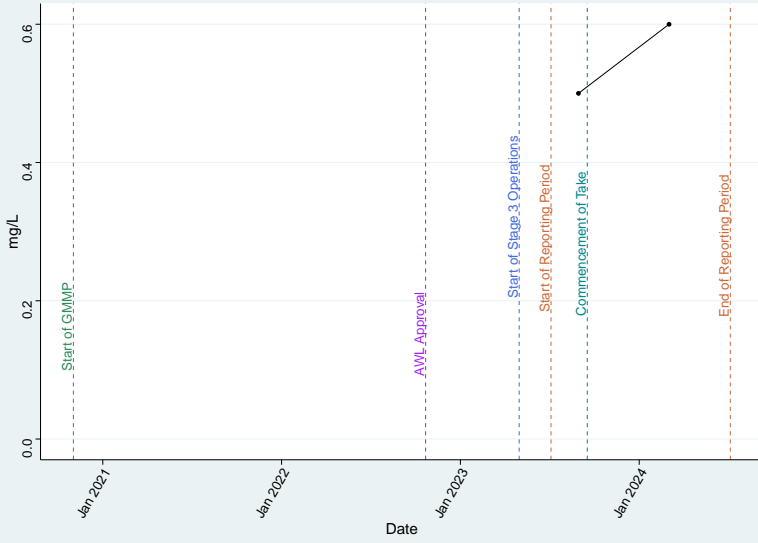
Bore ACS2 (Acland Coal Sequence) – pH_Field

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



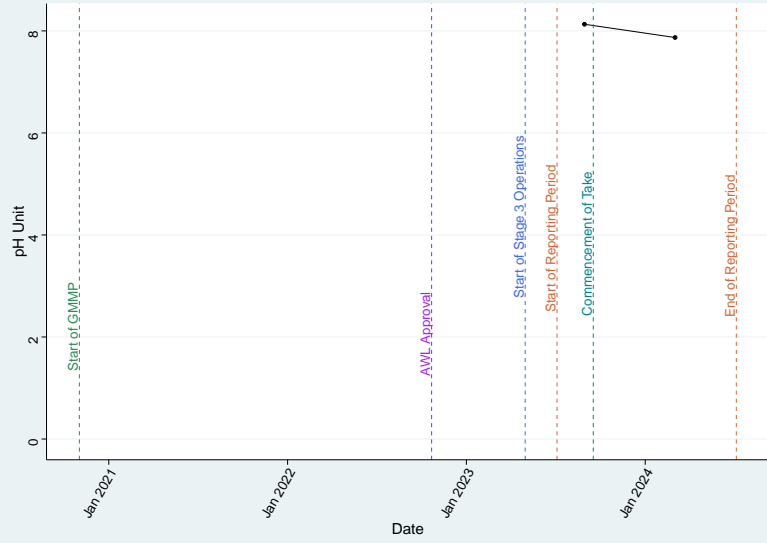
Bore ACS2 (Acland Coal Sequence) – Total_N

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



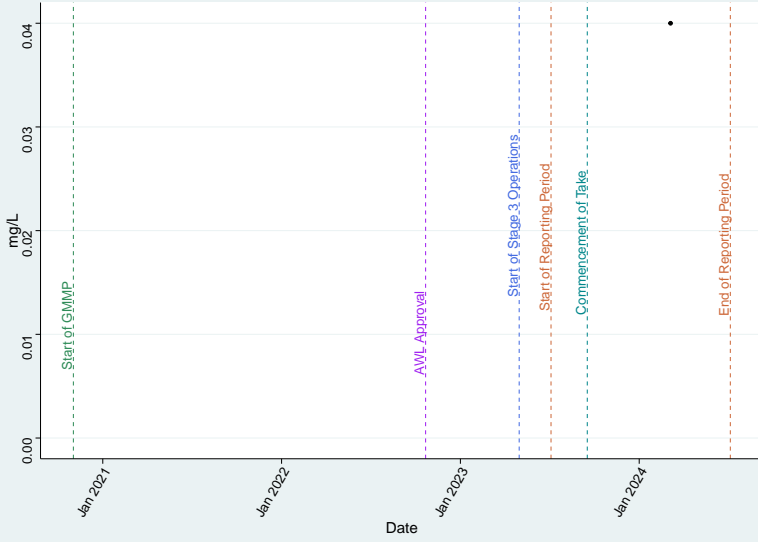
Bore ACS2 (Acland Coal Sequence) – pH_Lab

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



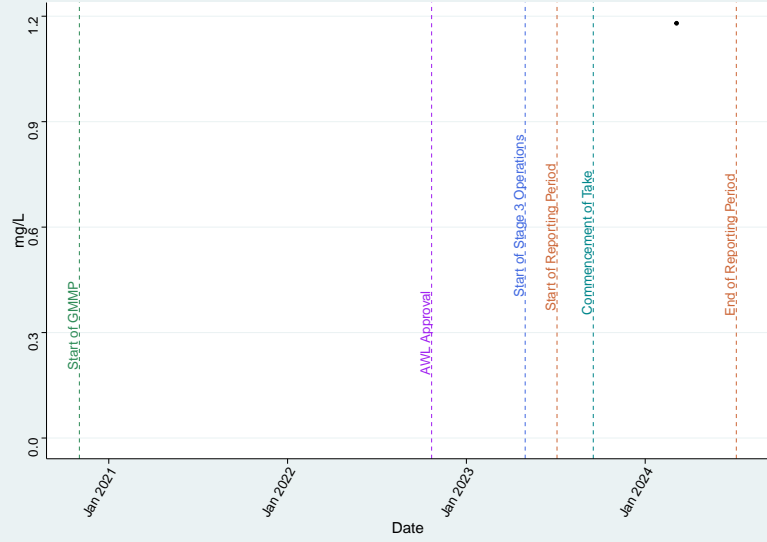
Bore ACS3 (Acland Coal Sequence) – Al_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



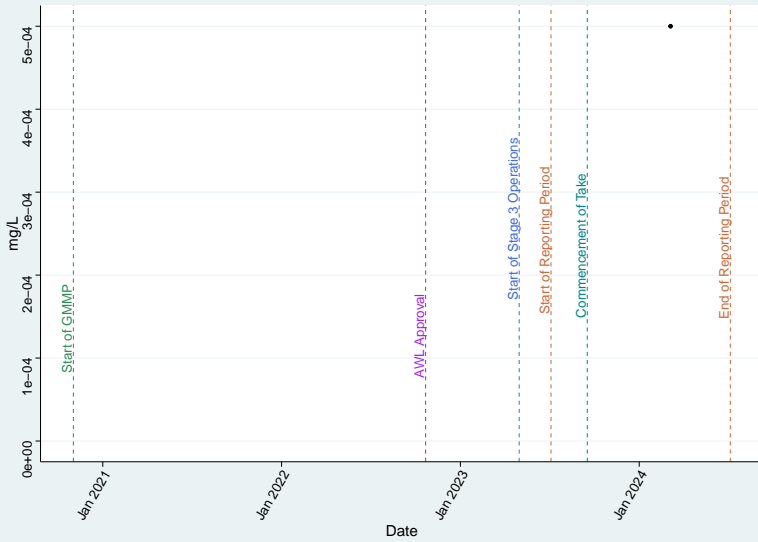
Bore ACS3 (Acland Coal Sequence) – Ammonia as N

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



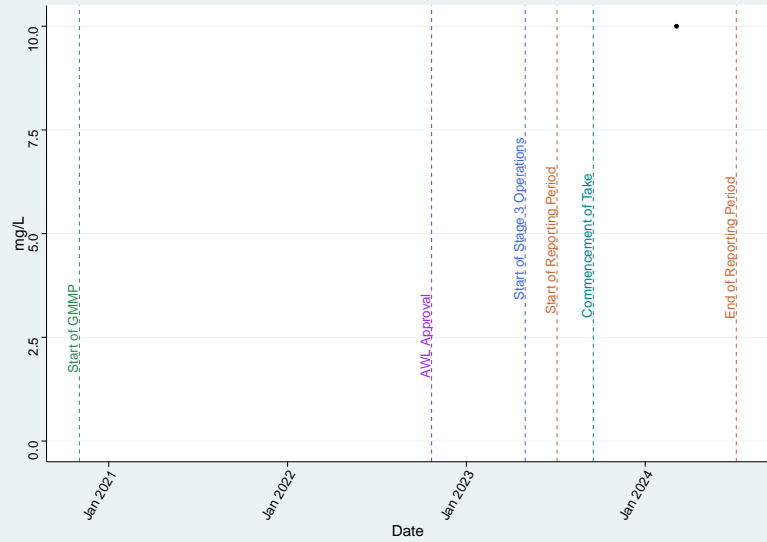
Bore ACS3 (Acland Coal Sequence) – As_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



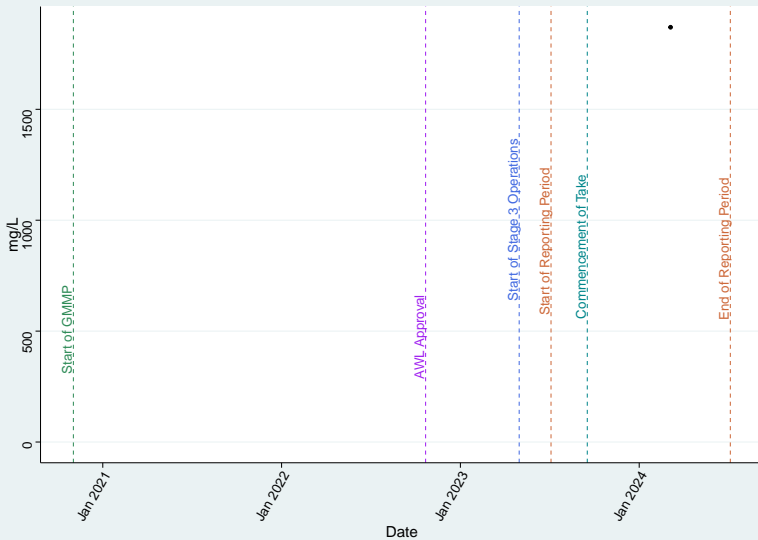
Bore ACS3 (Acland Coal Sequence) – Ca

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



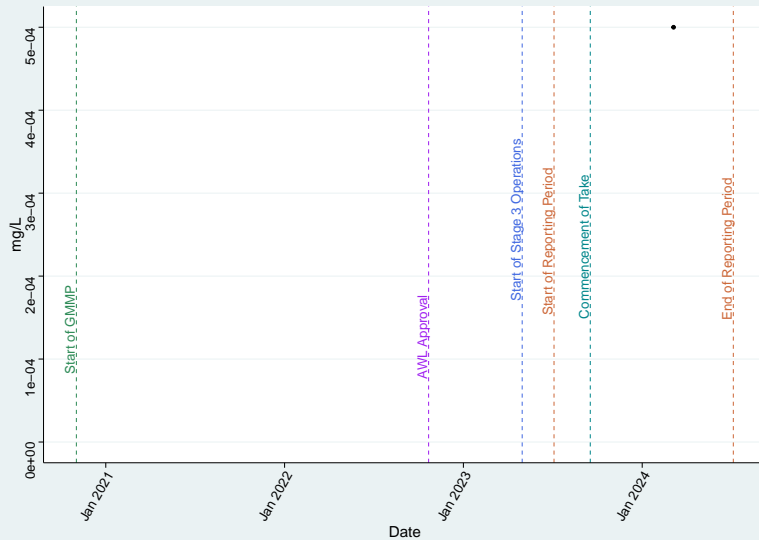
Bore ACS3 (Acland Coal Sequence) – Cl

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



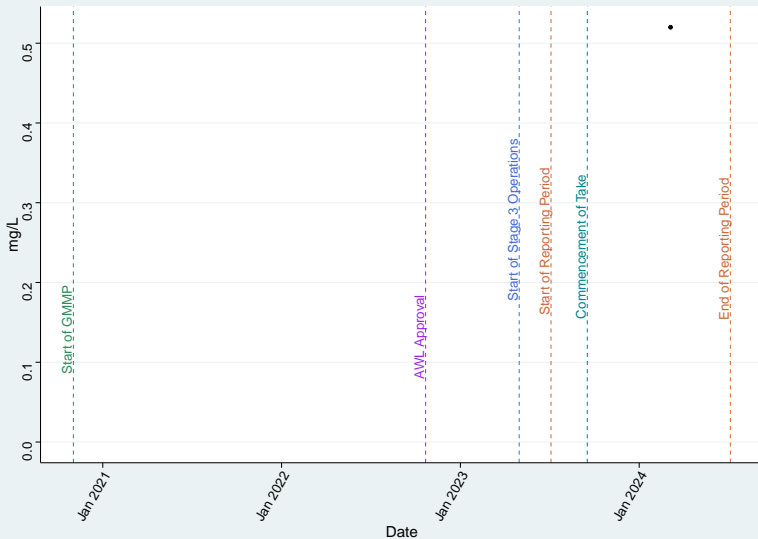
Bore ACS3 (Acland Coal Sequence) – Cu_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



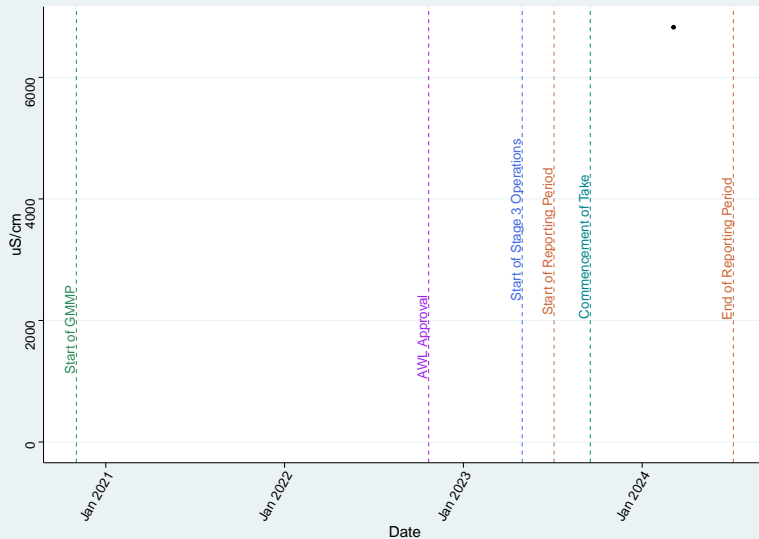
Bore ACS3 (Acland Coal Sequence) – DO_Field

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



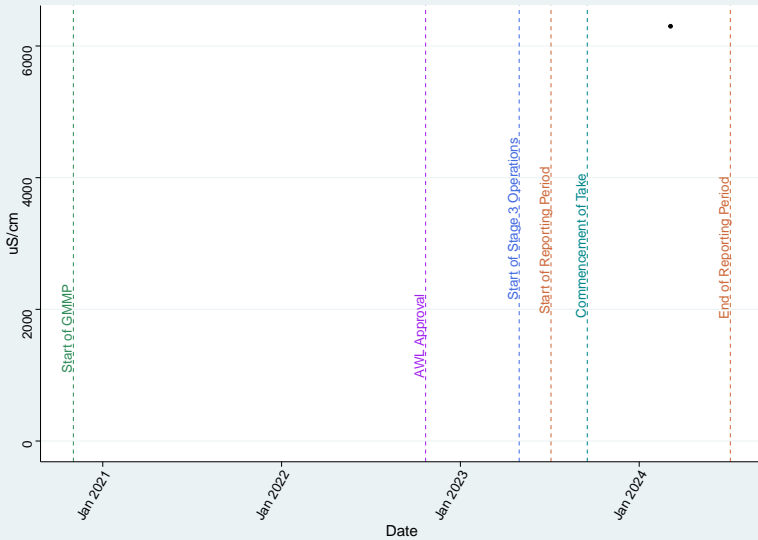
Bore ACS3 (Acland Coal Sequence) – EC_Field

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



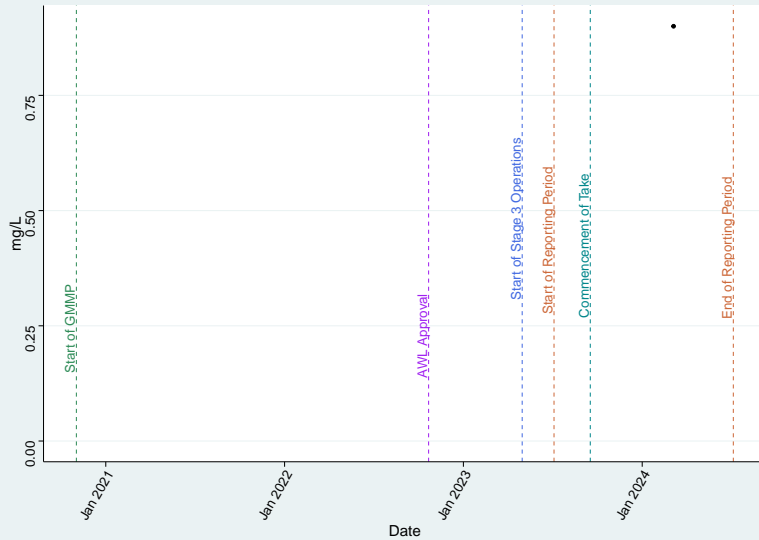
Bore ACS3 (Acland Coal Sequence) – EC_Lab

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



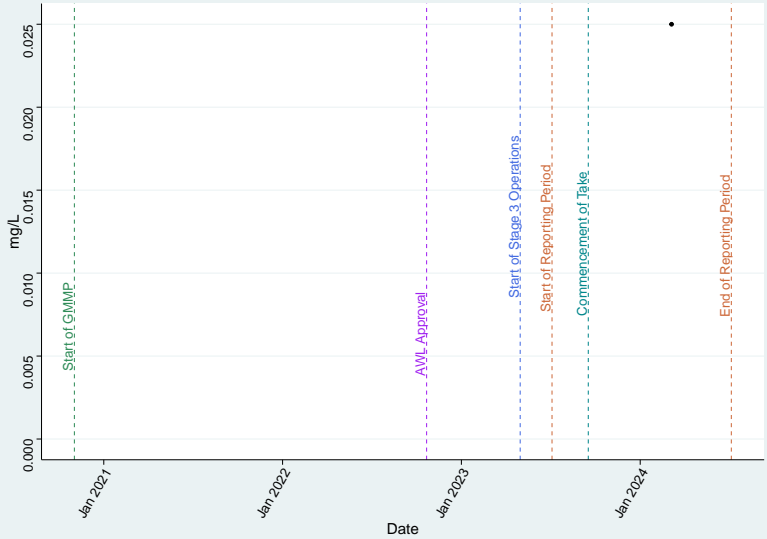
Bore ACS3 (Acland Coal Sequence) – F

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



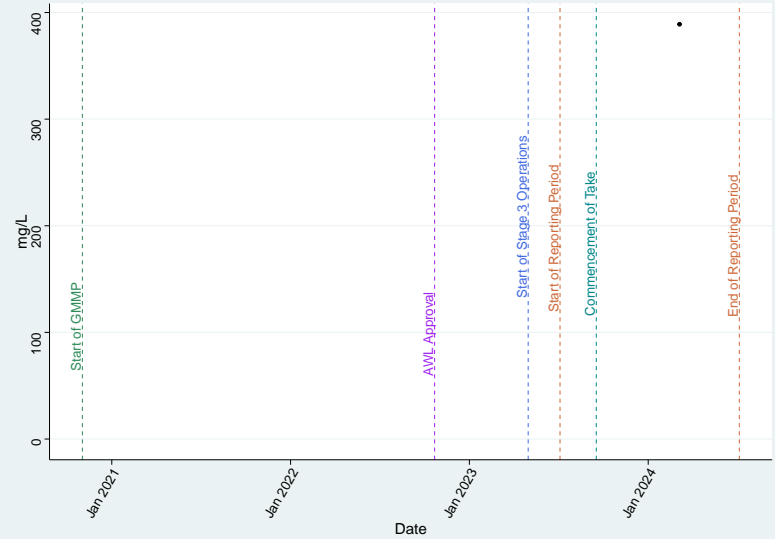
Bore ACS3 (Acland Coal Sequence) – Fe_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



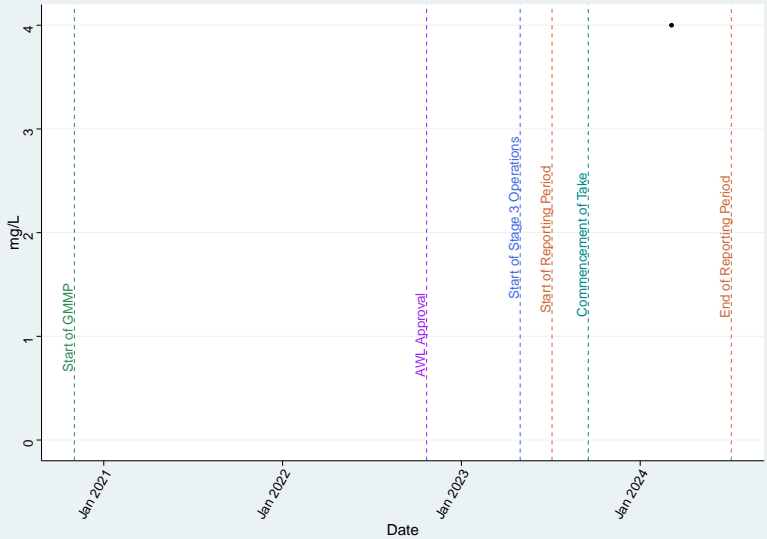
Bore ACS3 (Acland Coal Sequence) – HCO3

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



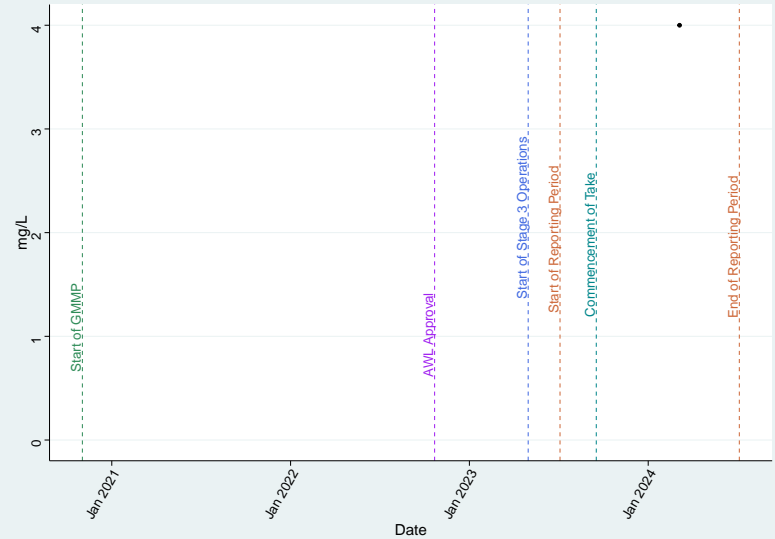
Bore ACS3 (Acland Coal Sequence) – K

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



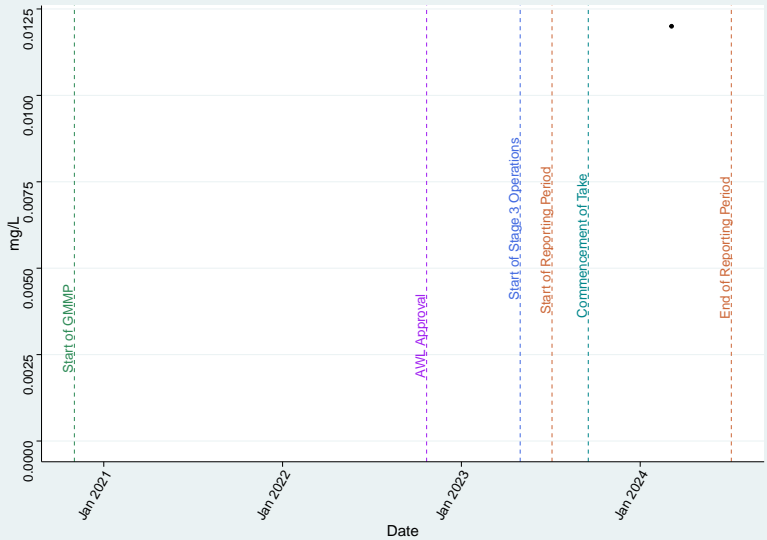
Bore ACS3 (Acland Coal Sequence) – Mg

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



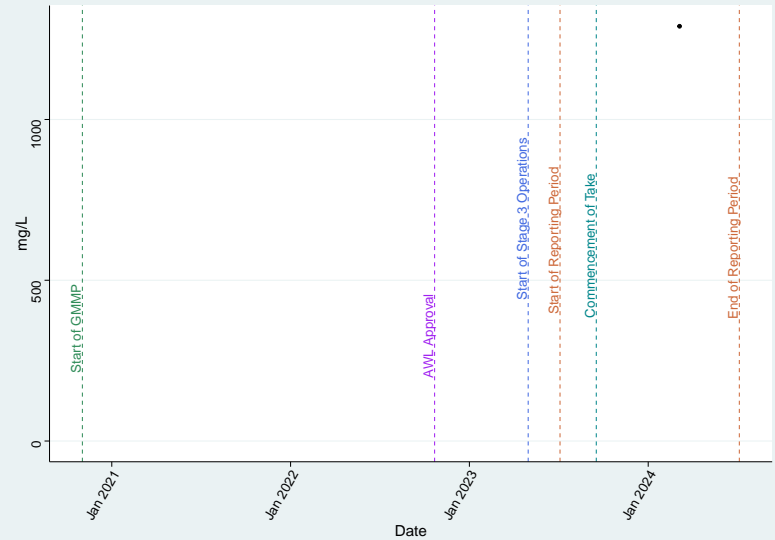
Bore ACS3 (Acland Coal Sequence) – Mn_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



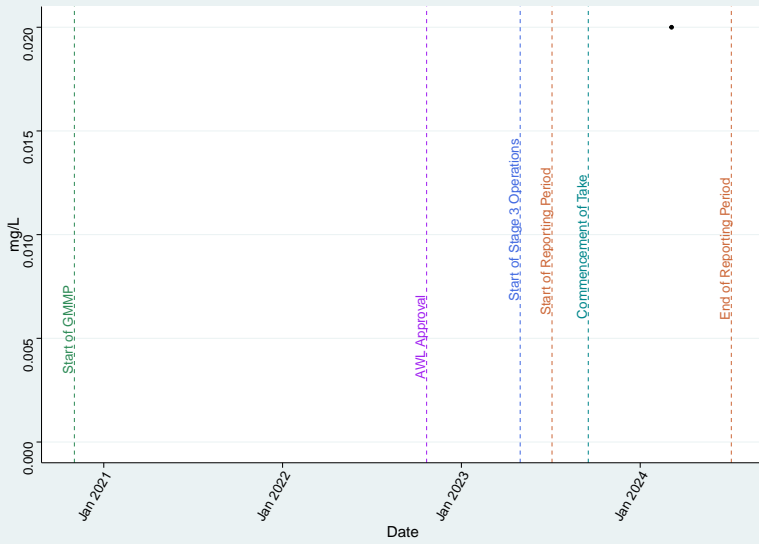
Bore ACS3 (Acland Coal Sequence) – Na

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



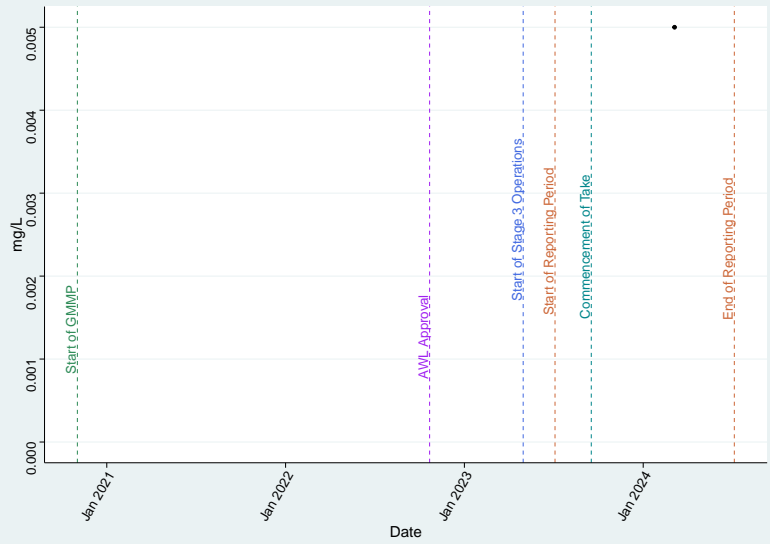
Bore ACS3 (Acland Coal Sequence) – Nitrate as N

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



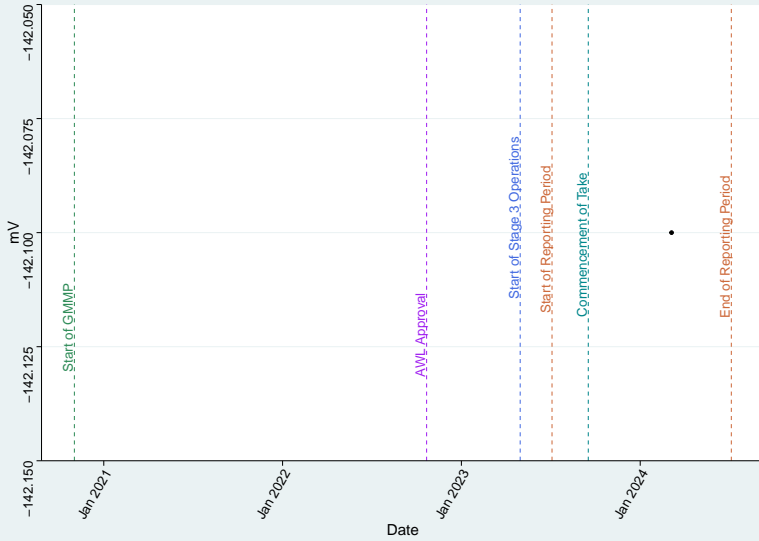
Bore ACS3 (Acland Coal Sequence) – Nitrite as N

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



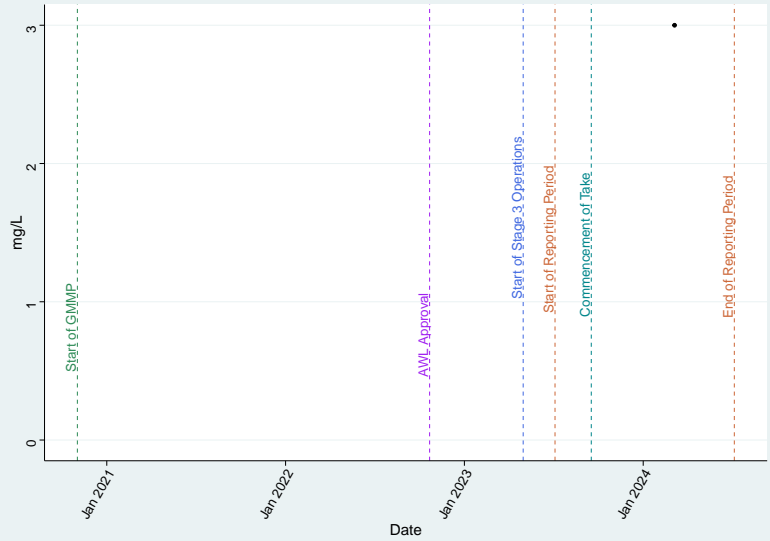
Bore ACS3 (Acland Coal Sequence) – Redox_Field

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



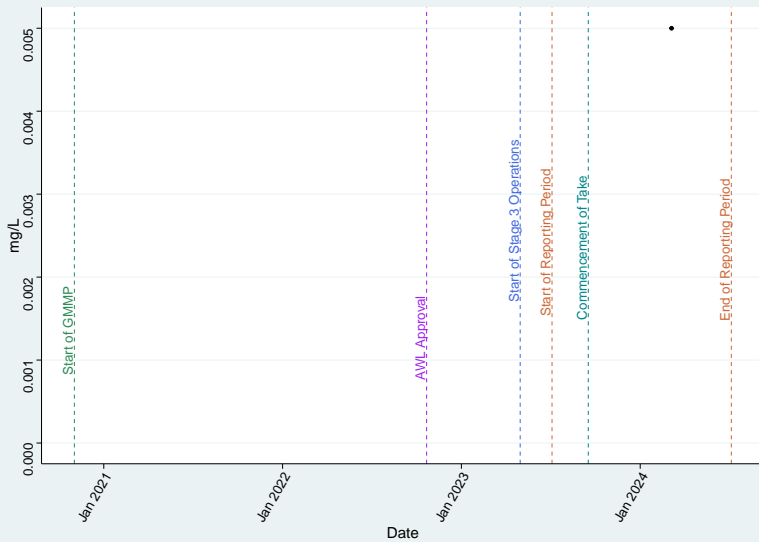
Bore ACS3 (Acland Coal Sequence) – SO4

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



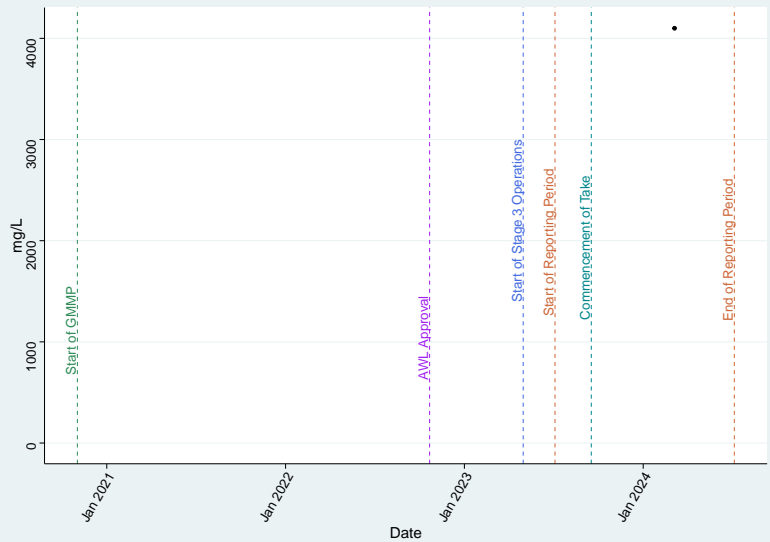
Bore ACS3 (Acland Coal Sequence) – Se_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



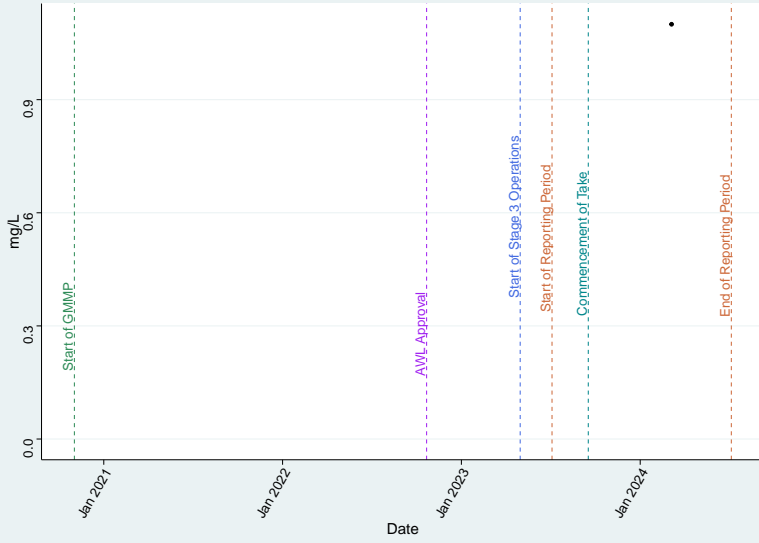
Bore ACS3 (Acland Coal Sequence) – TDS

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



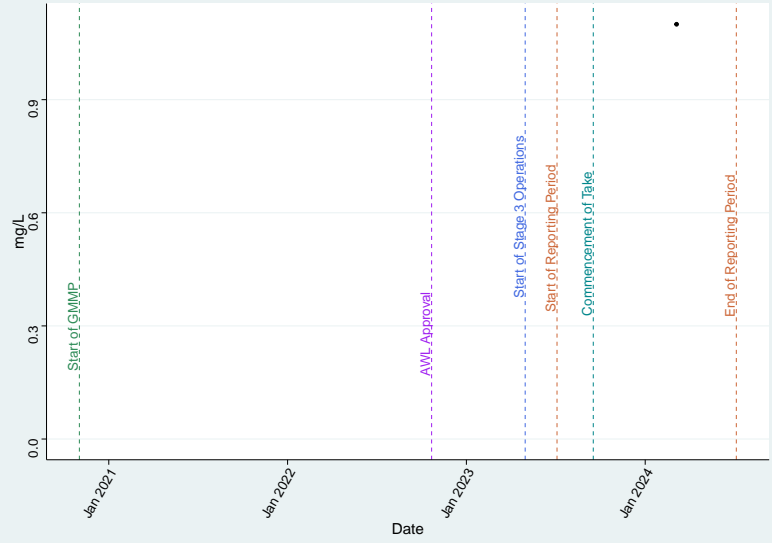
Bore ACS3 (Acland Coal Sequence) – TKN

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



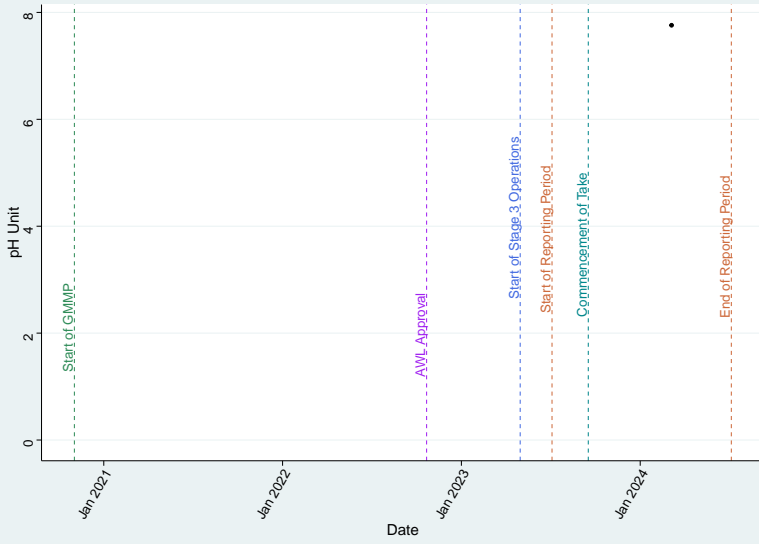
Bore ACS3 (Acland Coal Sequence) – Total_N

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



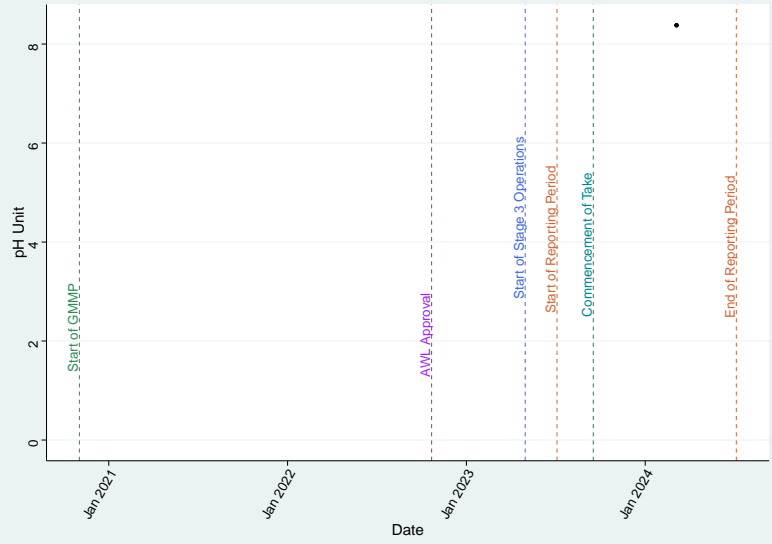
Bore ACS3 (Acland Coal Sequence) – pH_Field

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



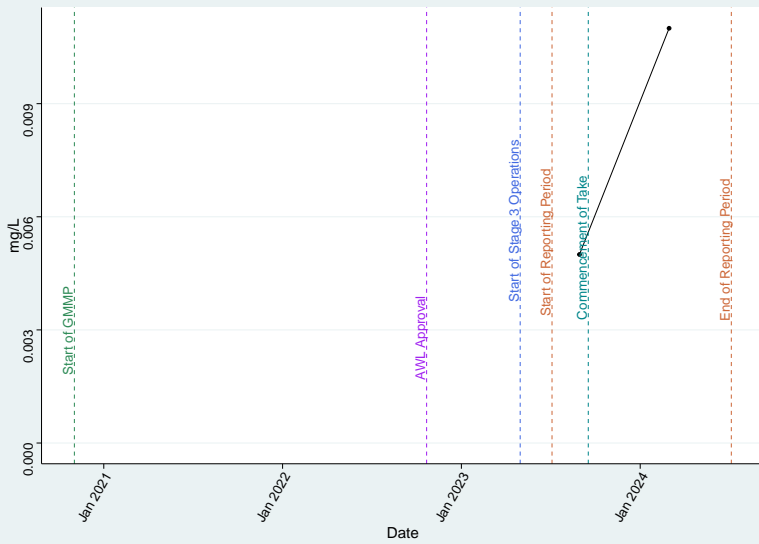
Bore ACS3 (Acland Coal Sequence) – pH_Lab

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



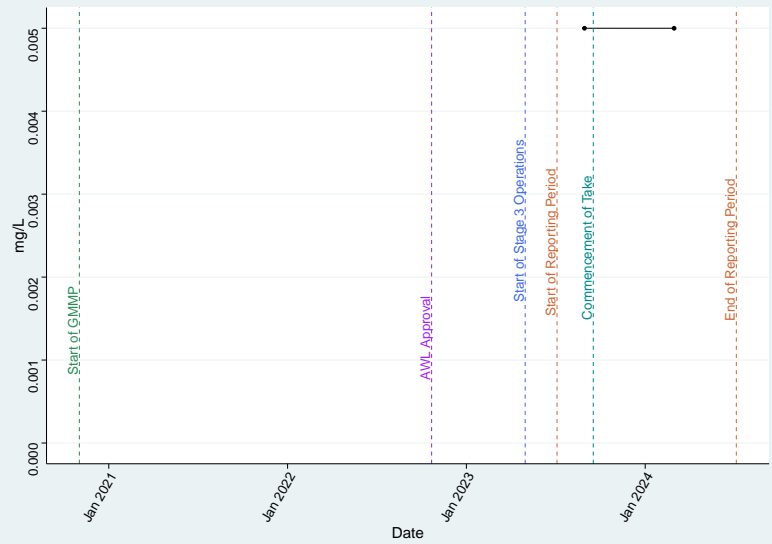
Bore B1 (Main Range Volcanics) – Al_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



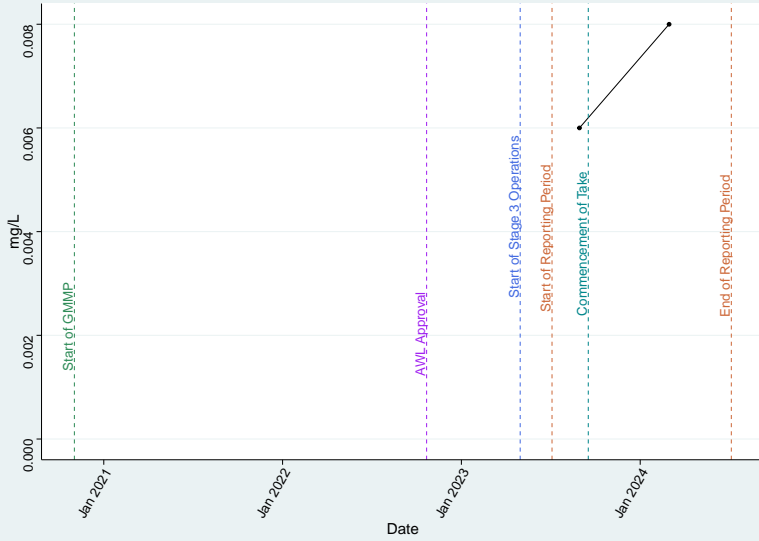
Bore B1 (Main Range Volcanics) – Ammonia as N

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



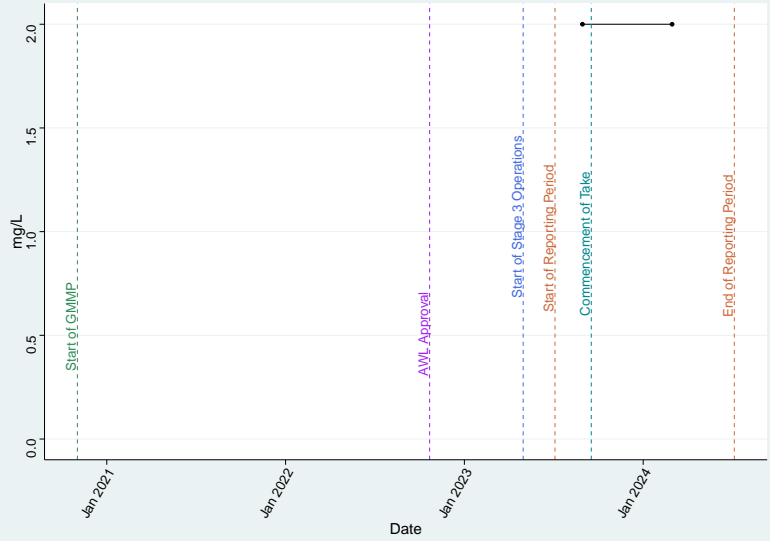
Bore B1 (Main Range Volcanics) – As_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



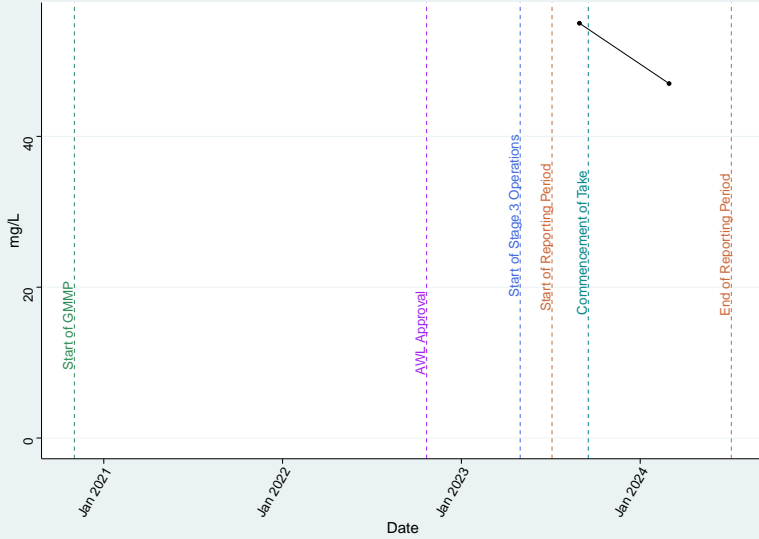
Bore B1 (Main Range Volcanics) – Ca

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



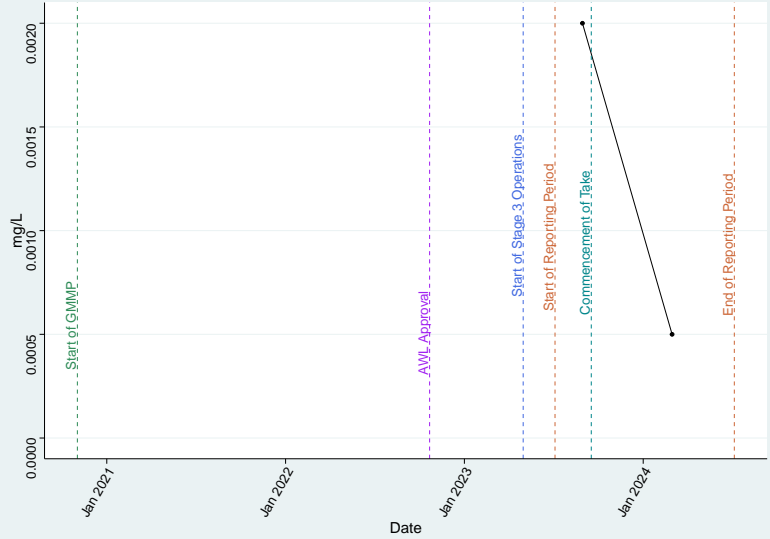
Bore B1 (Main Range Volcanics) – Cl

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



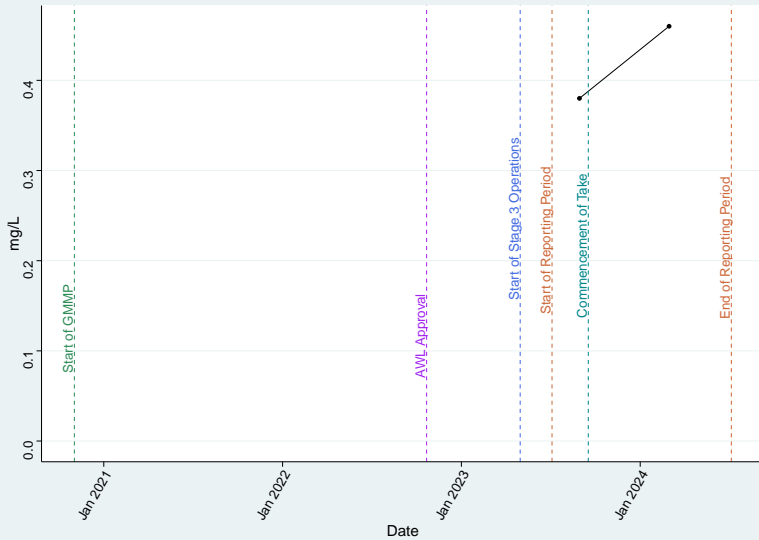
Bore B1 (Main Range Volcanics) – Cu_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



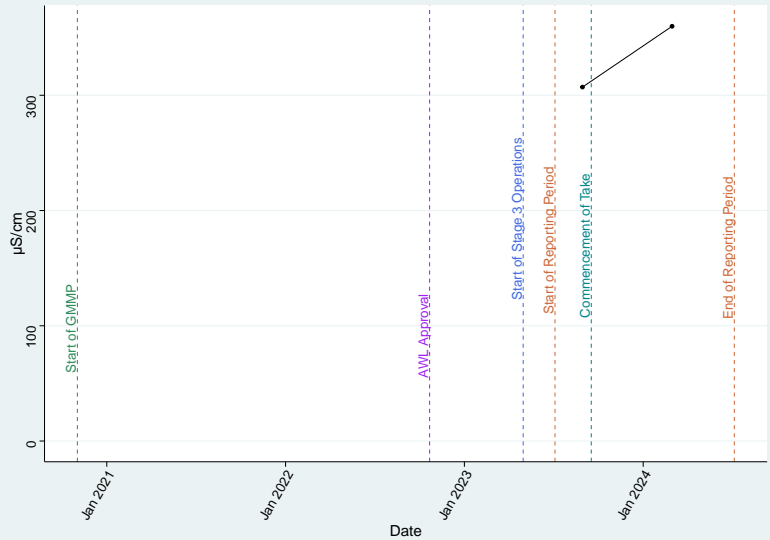
Bore B1 (Main Range Volcanics) – DO_Field

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



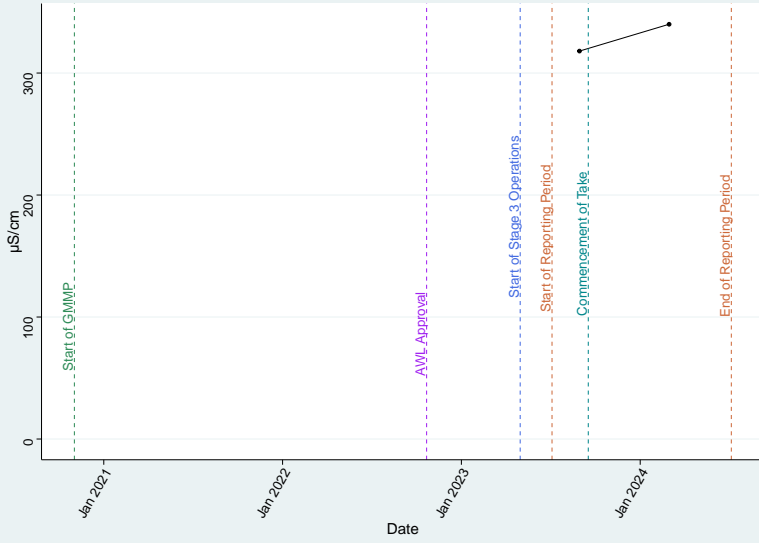
Bore B1 (Main Range Volcanics) – EC_Field

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



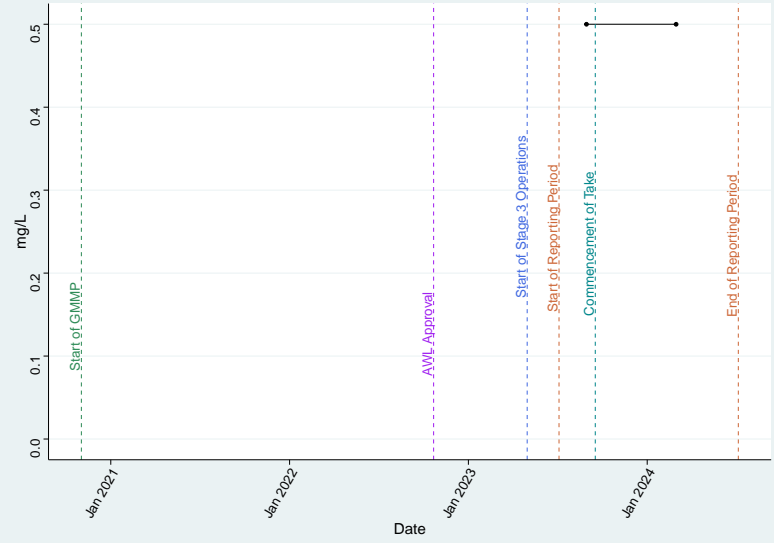
Bore B1 (Main Range Volcanics) – EC_Lab

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



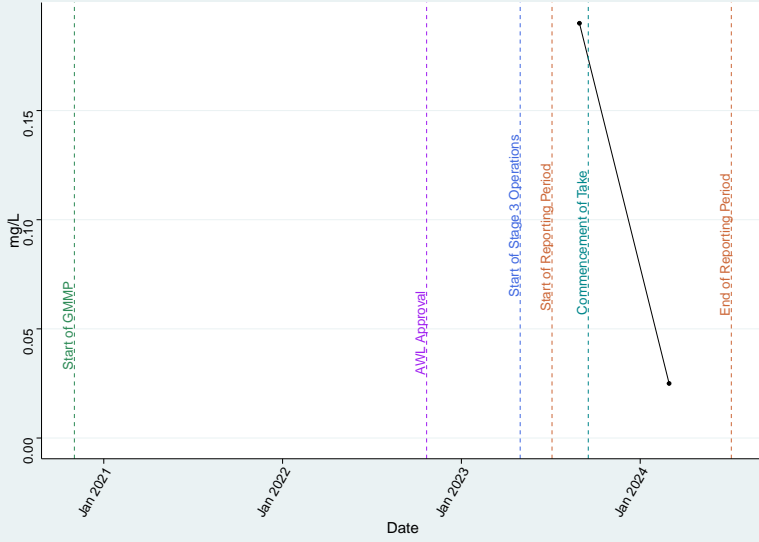
Bore B1 (Main Range Volcanics) – F

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



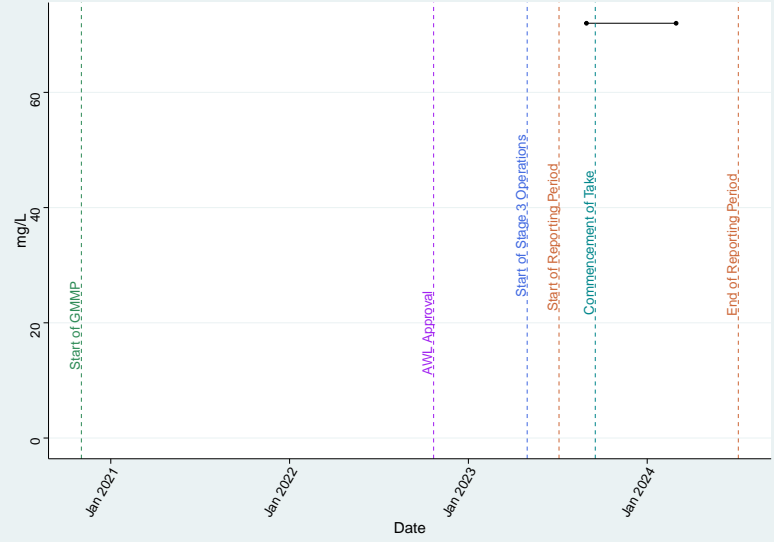
Bore B1 (Main Range Volcanics) – Fe_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



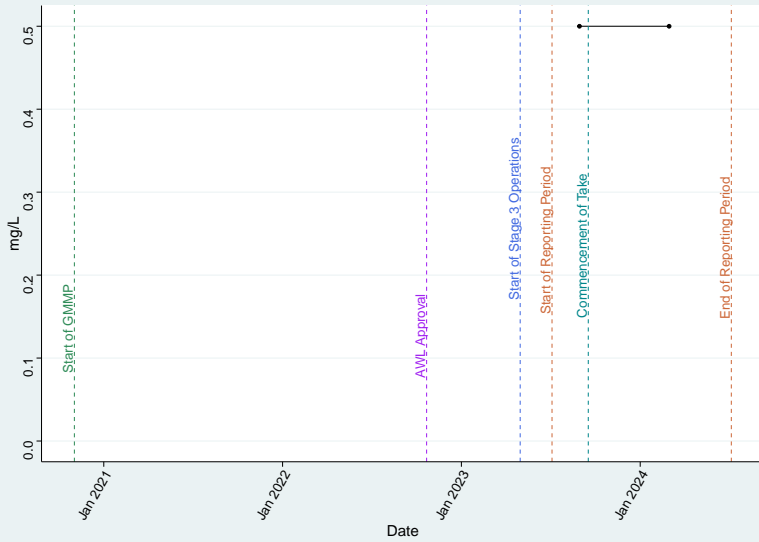
Bore B1 (Main Range Volcanics) – HCO3

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



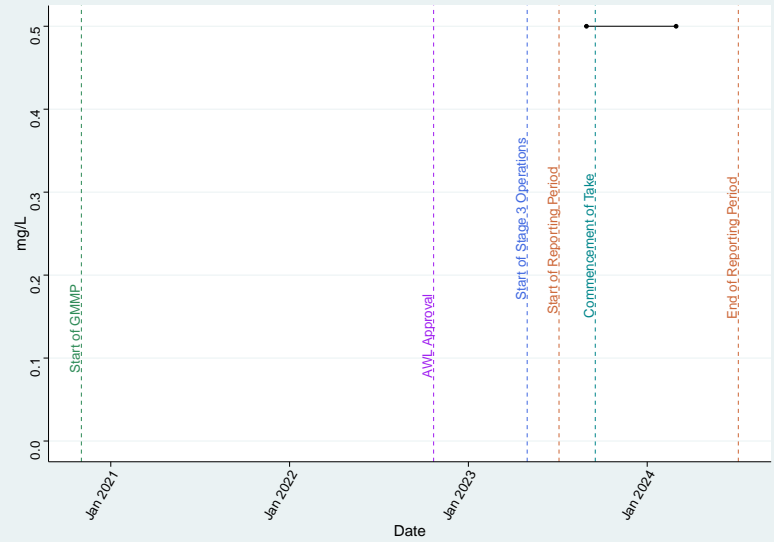
Bore B1 (Main Range Volcanics) – K

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



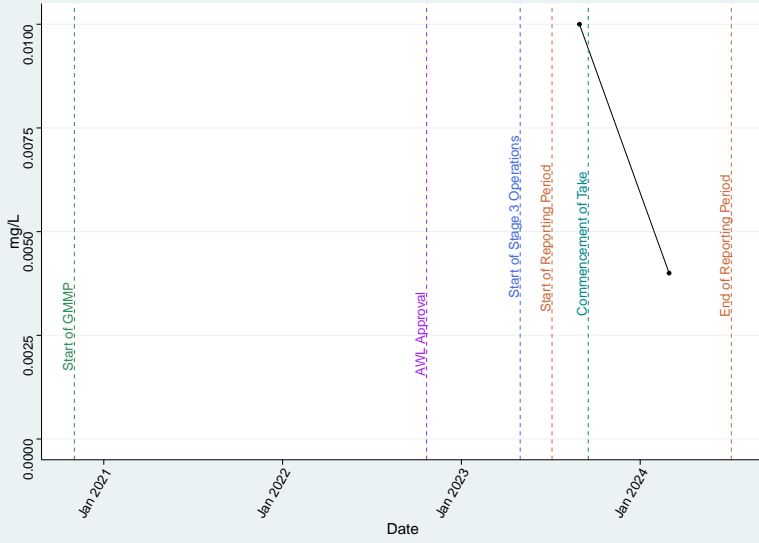
Bore B1 (Main Range Volcanics) – Mg

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



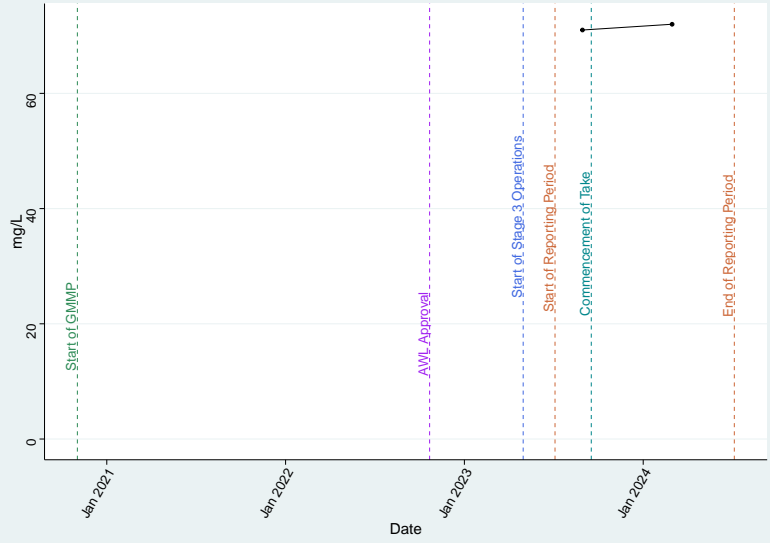
Bore B1 (Main Range Volcanics) – Mn_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



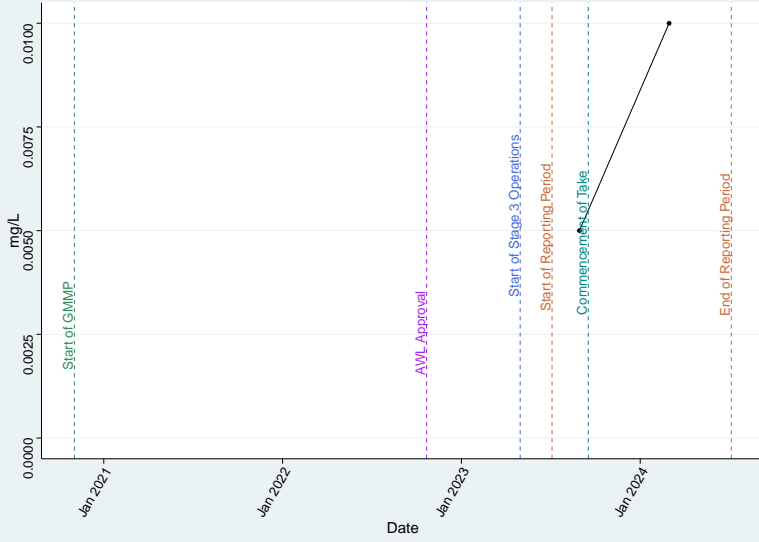
Bore B1 (Main Range Volcanics) – Na

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



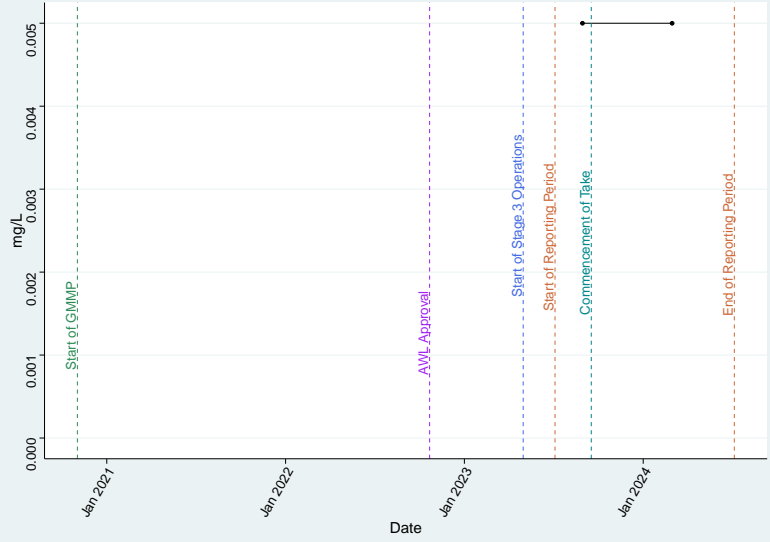
Bore B1 (Main Range Volcanics) – Nitrate as N

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



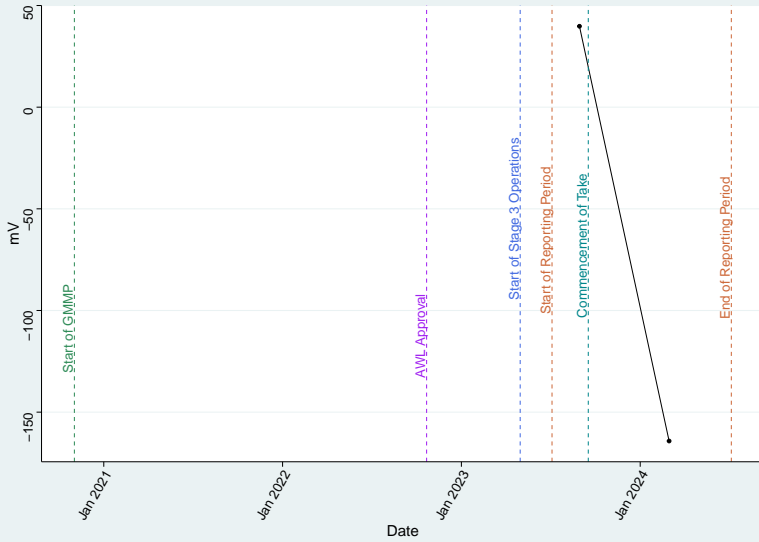
Bore B1 (Main Range Volcanics) – Nitrite as N

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



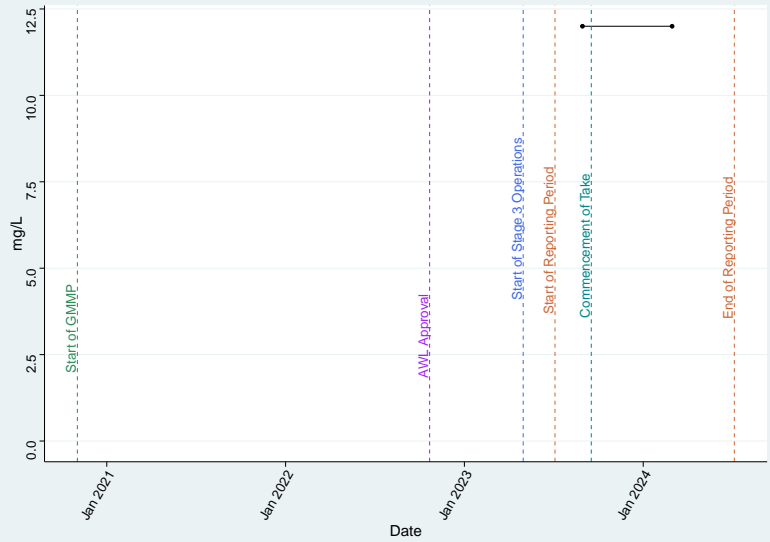
Bore B1 (Main Range Volcanics) – Redox_Field

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



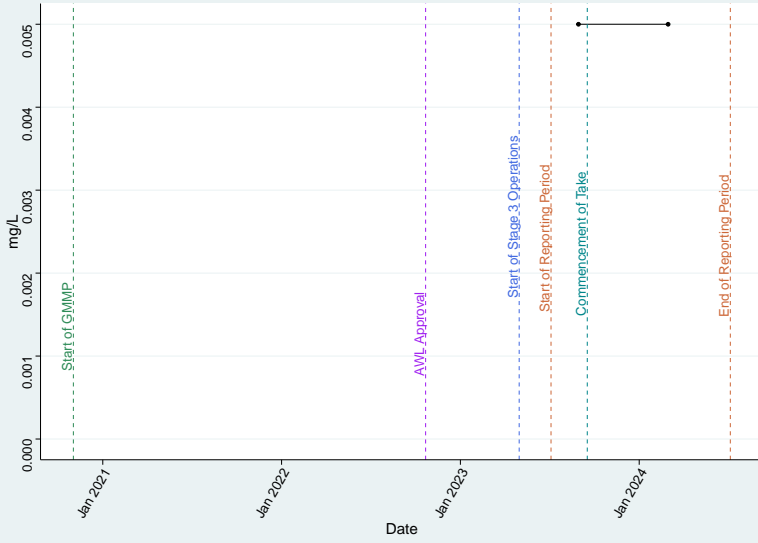
Bore B1 (Main Range Volcanics) – SO4

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



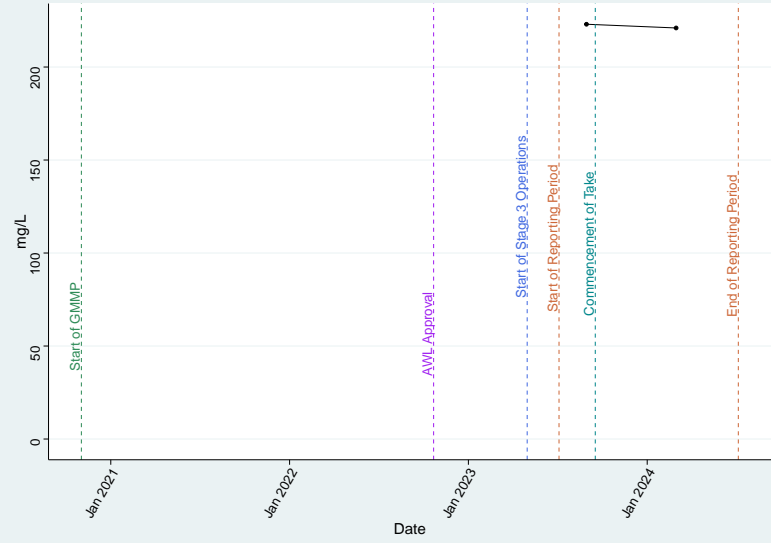
Bore B1 (Main Range Volcanics) – Se_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



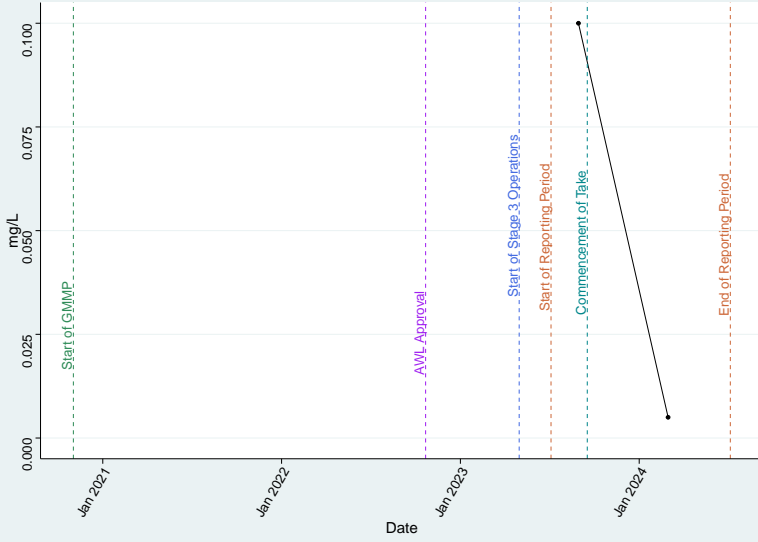
Bore B1 (Main Range Volcanics) – TDS

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



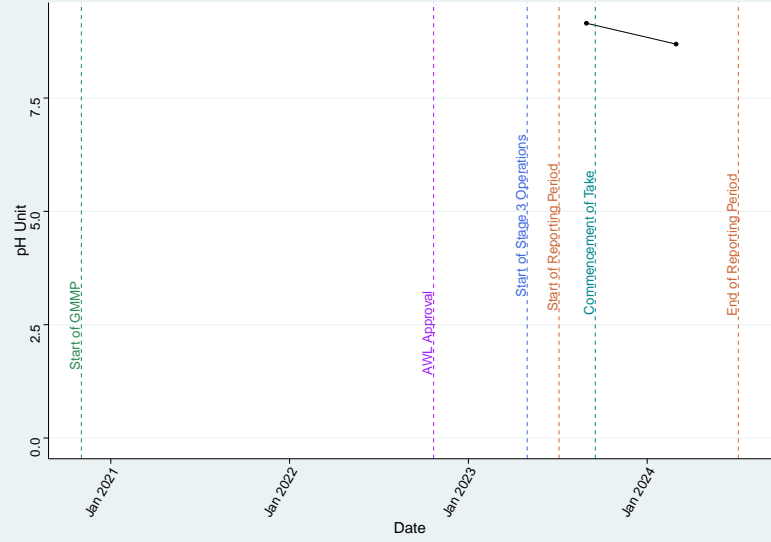
Bore B1 (Main Range Volcanics) – TKN

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



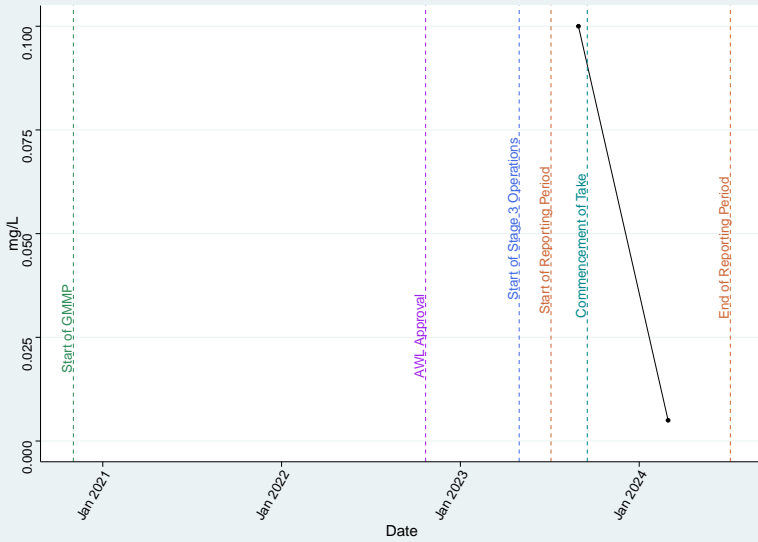
Bore B1 (Main Range Volcanics) – pH_Field

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



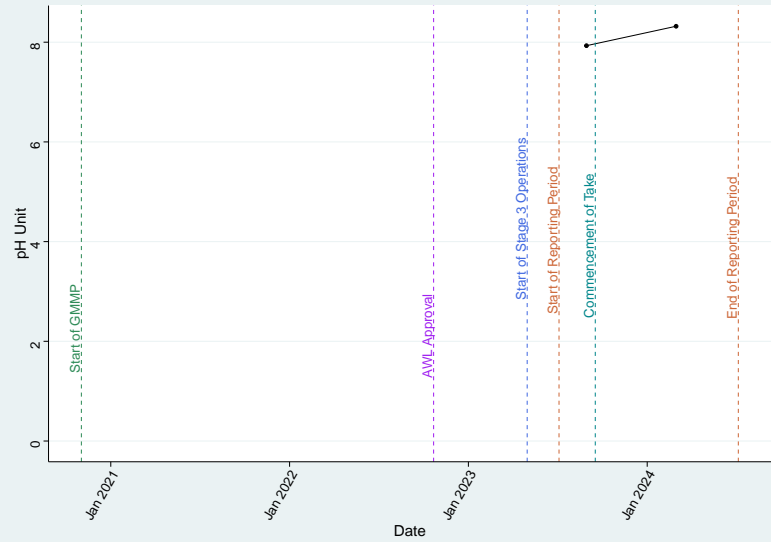
Bore B1 (Main Range Volcanics) – Total_N

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



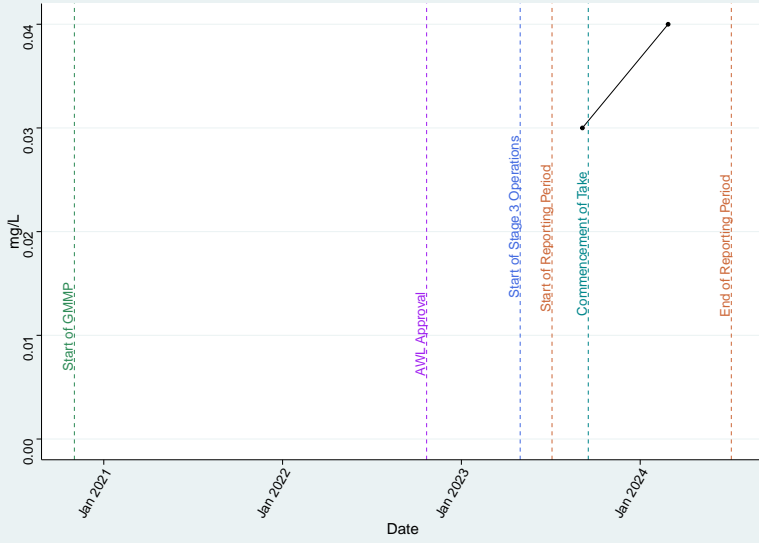
Bore B1 (Main Range Volcanics) – pH_Lab

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



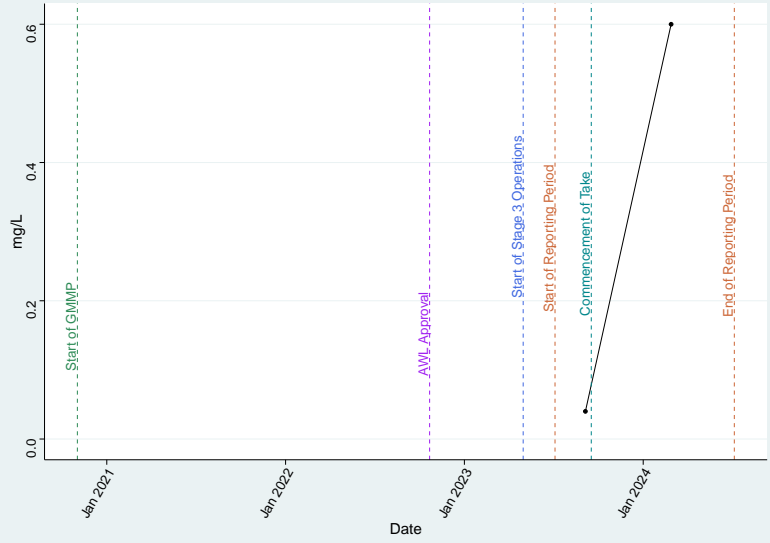
Bore B3 (Main Range Volcanics) – Al_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



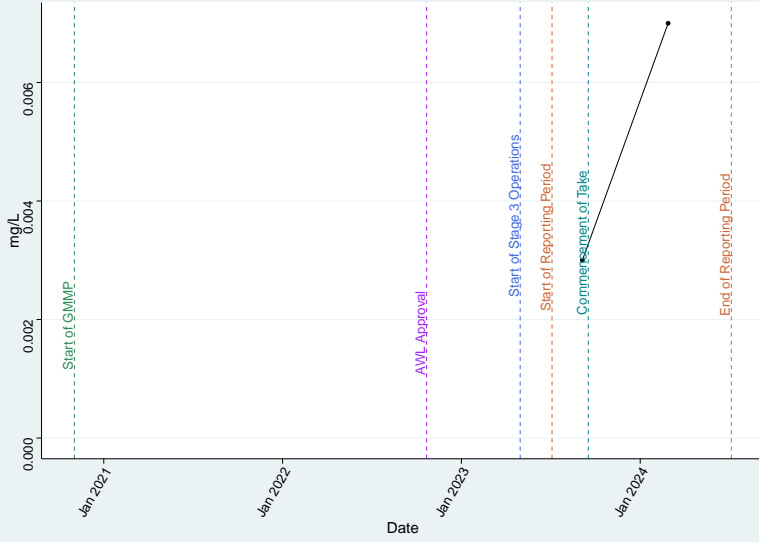
Bore B3 (Main Range Volcanics) – Ammonia as N

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



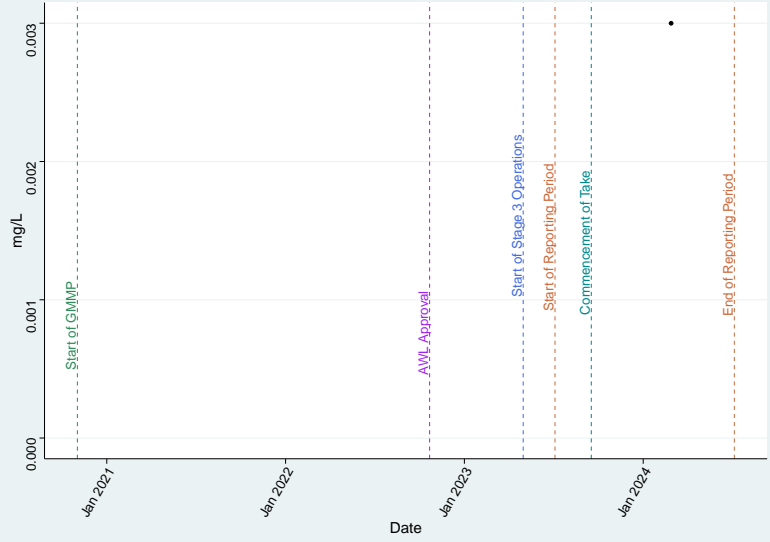
Bore B3 (Main Range Volcanics) – As_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



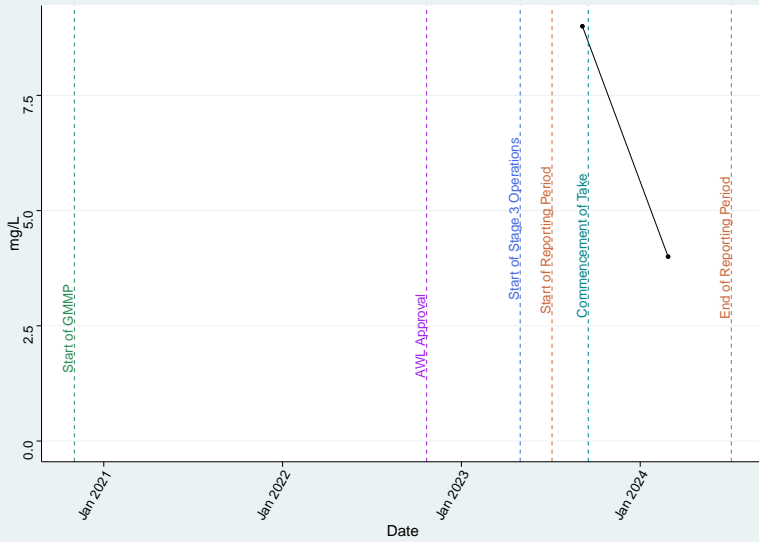
Bore B3 (Main Range Volcanics) – Ba_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



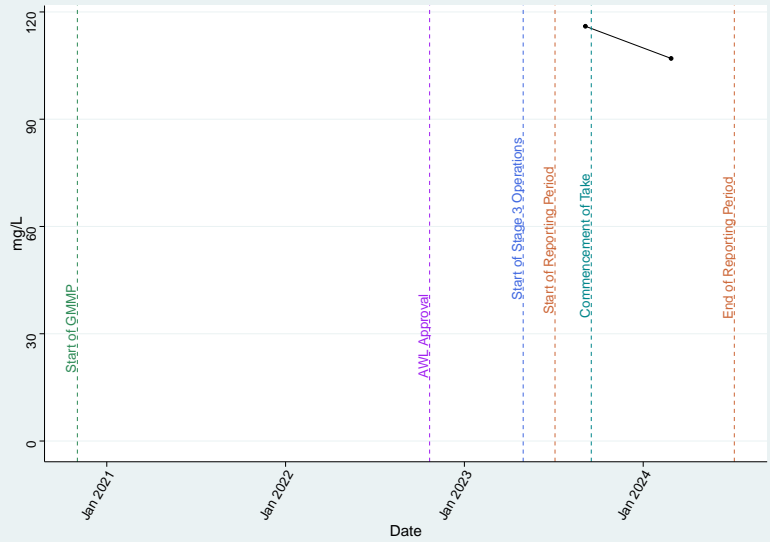
Bore B3 (Main Range Volcanics) – Ca

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



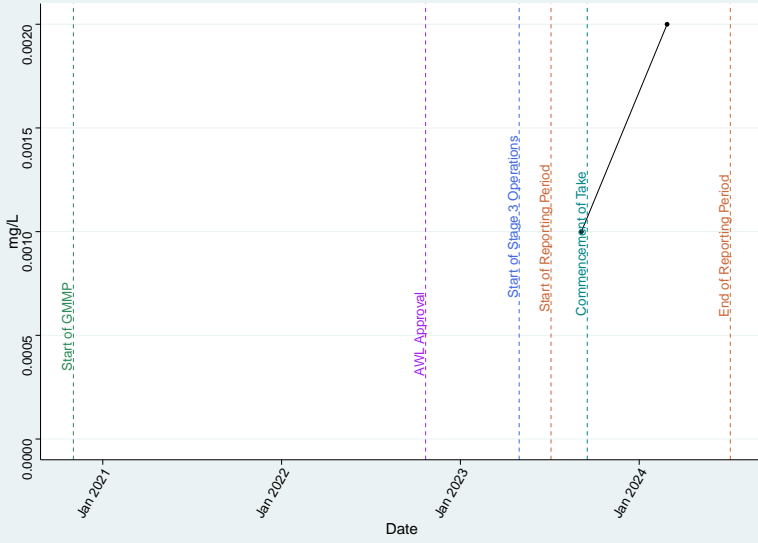
Bore B3 (Main Range Volcanics) – Cl

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



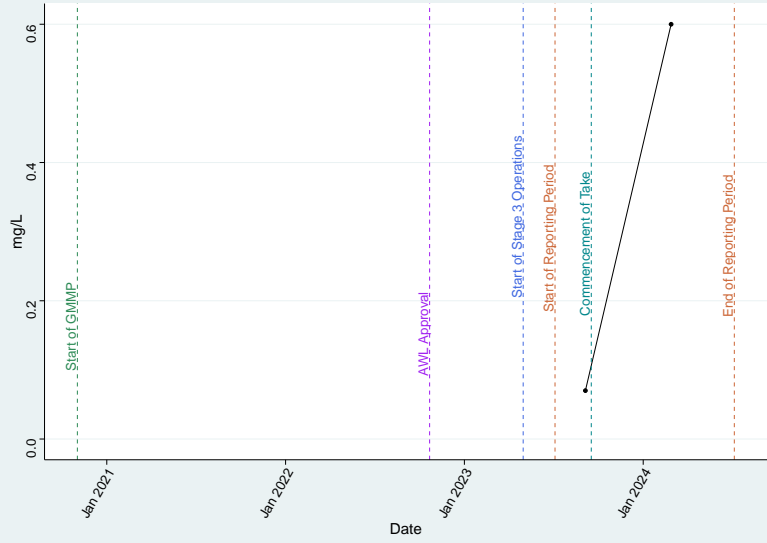
Bore B3 (Main Range Volcanics) – Cu_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



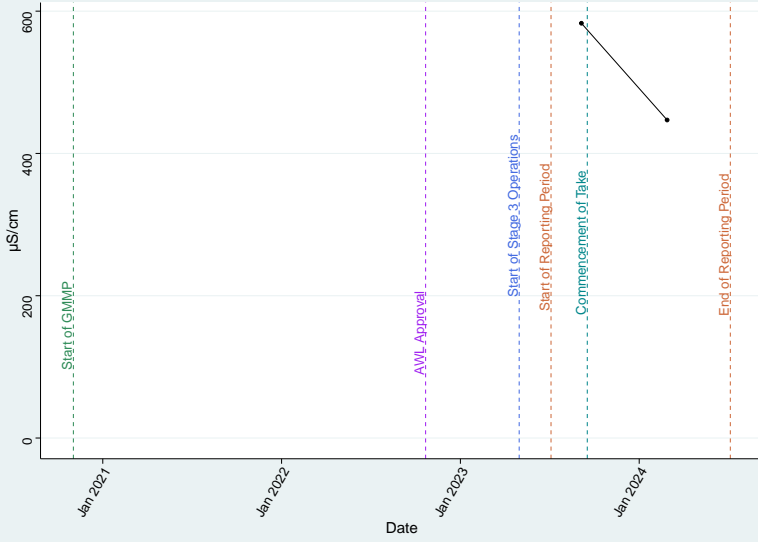
Bore B3 (Main Range Volcanics) – DO_Field

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



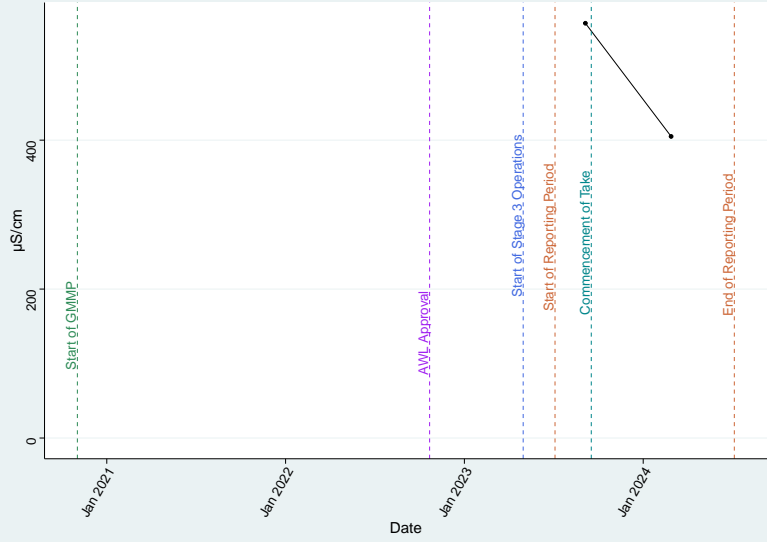
Bore B3 (Main Range Volcanics) – EC_Field

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



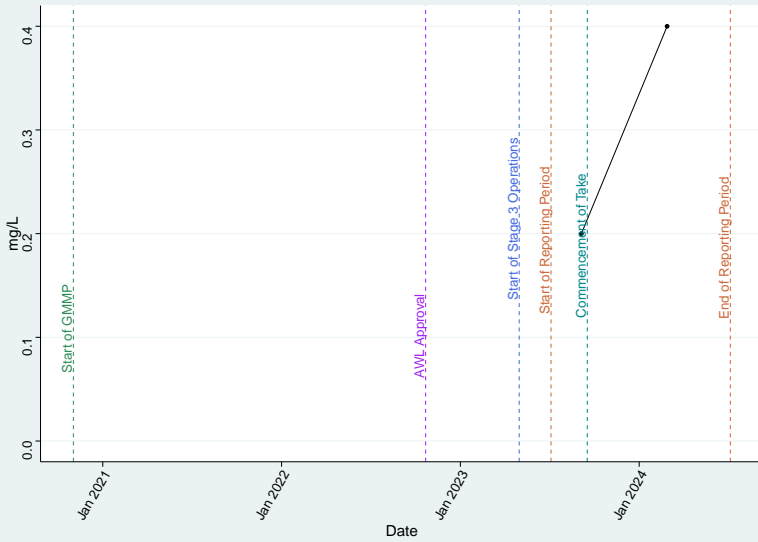
Bore B3 (Main Range Volcanics) – EC_Lab

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



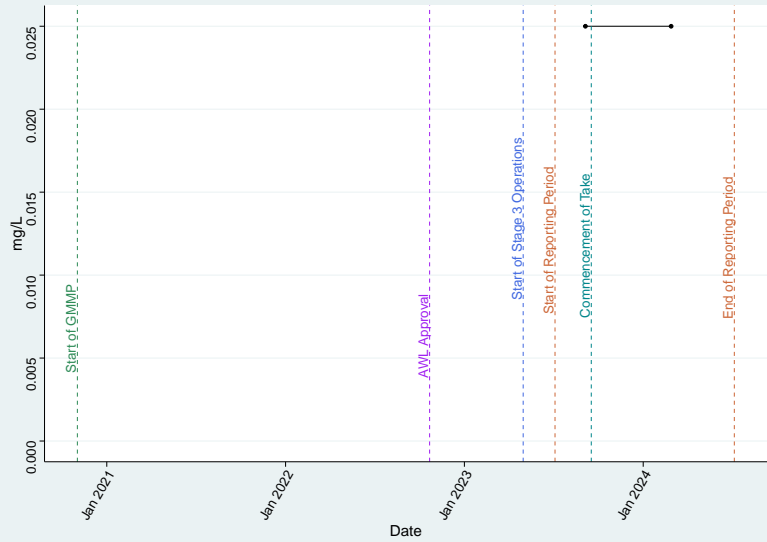
Bore B3 (Main Range Volcanics) – F

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



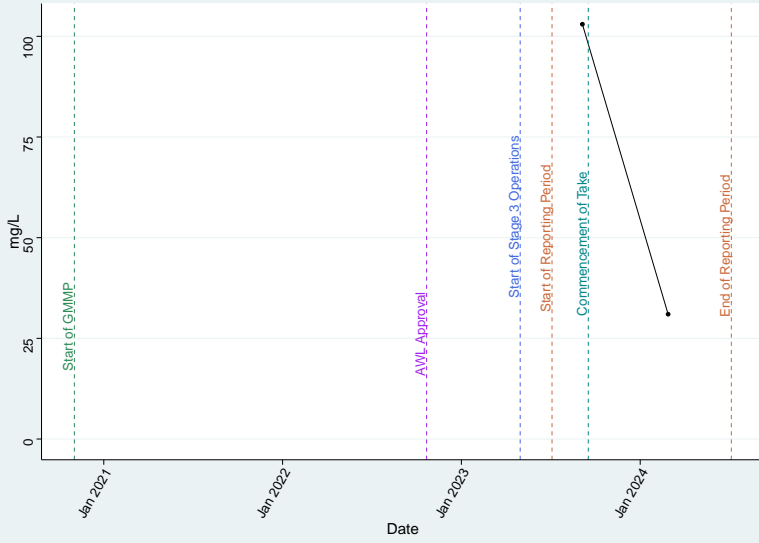
Bore B3 (Main Range Volcanics) – Fe_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



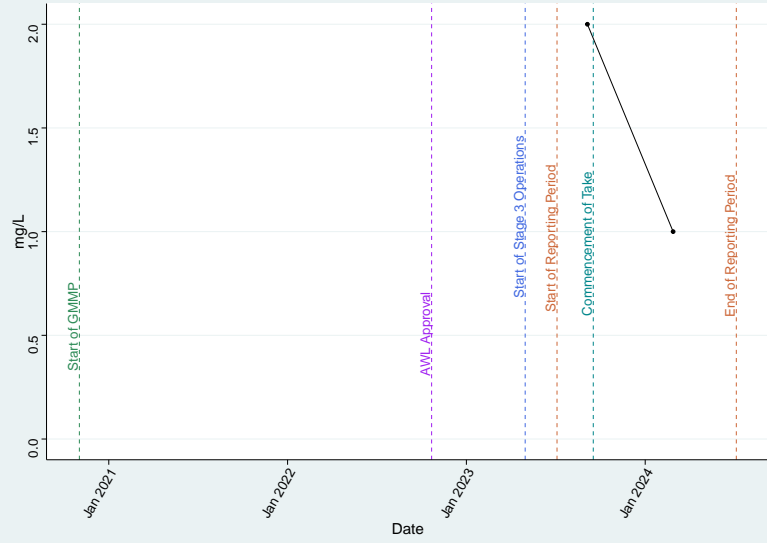
Bore B3 (Main Range Volcanics) – HCO3

Mann Kendall Trend Test | τ = Not enough data | p -value = Not enough data | Not evaluated



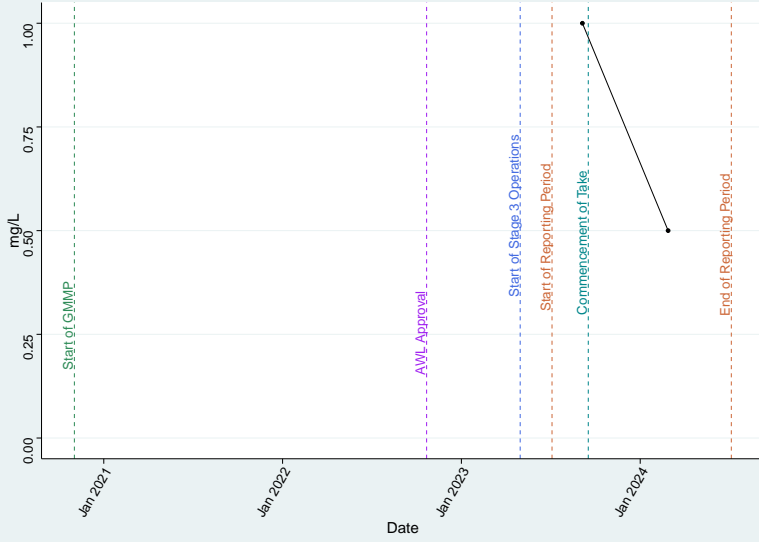
Bore B3 (Main Range Volcanics) – K

Mann Kendall Trend Test | τ = Not enough data | p -value = Not enough data | Not evaluated



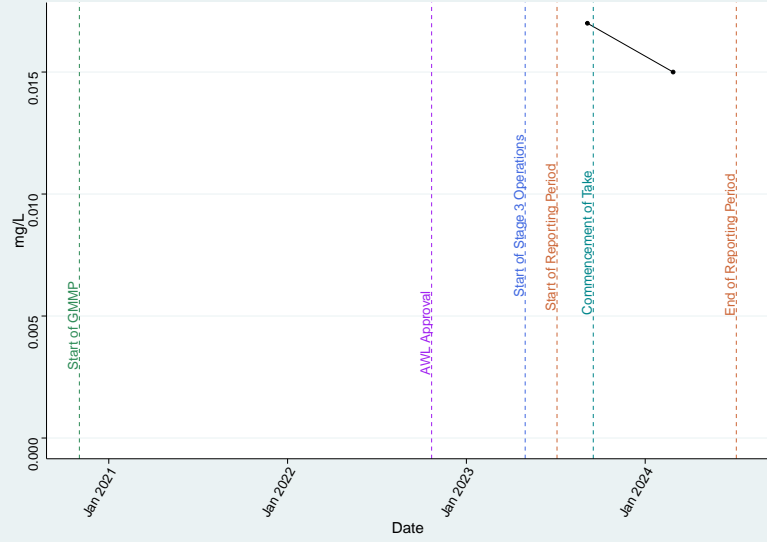
Bore B3 (Main Range Volcanics) – Mg

Mann Kendall Trend Test | τ = Not enough data | p -value = Not enough data | Not evaluated



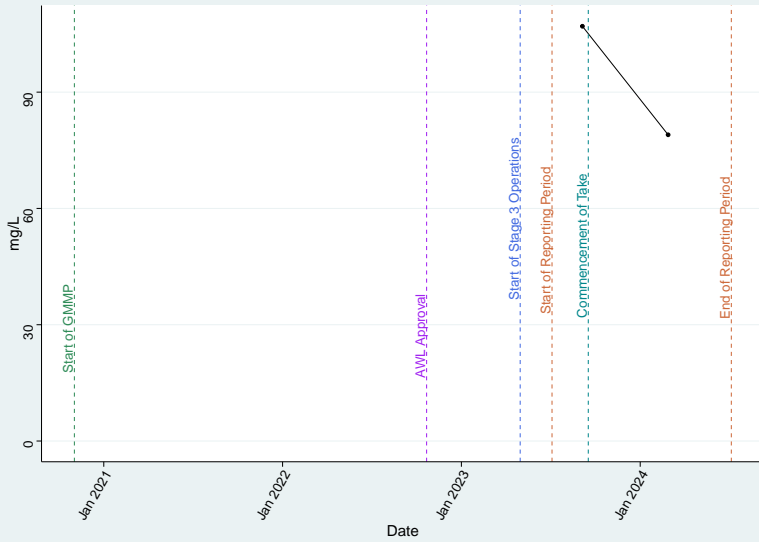
Bore B3 (Main Range Volcanics) – Mn_diss

Mann Kendall Trend Test | τ = Not enough data | p -value = Not enough data | Not evaluated



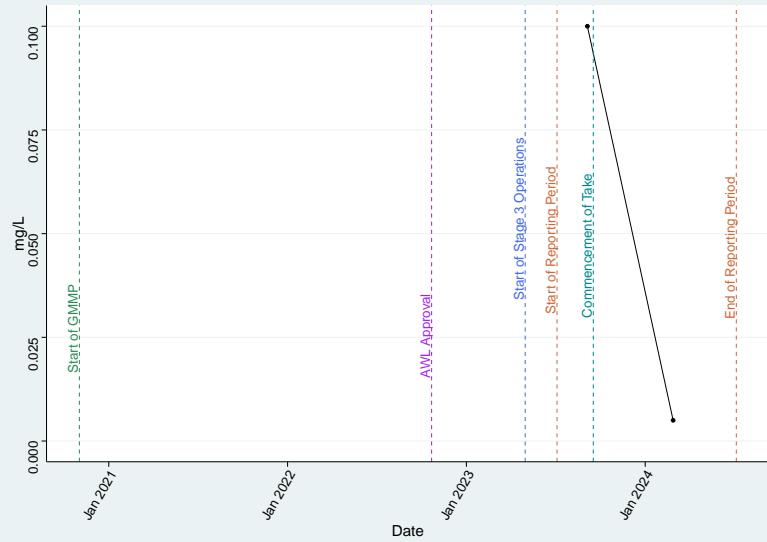
Bore B3 (Main Range Volcanics) – Na

Mann Kendall Trend Test | τ = Not enough data | p -value = Not enough data | Not evaluated



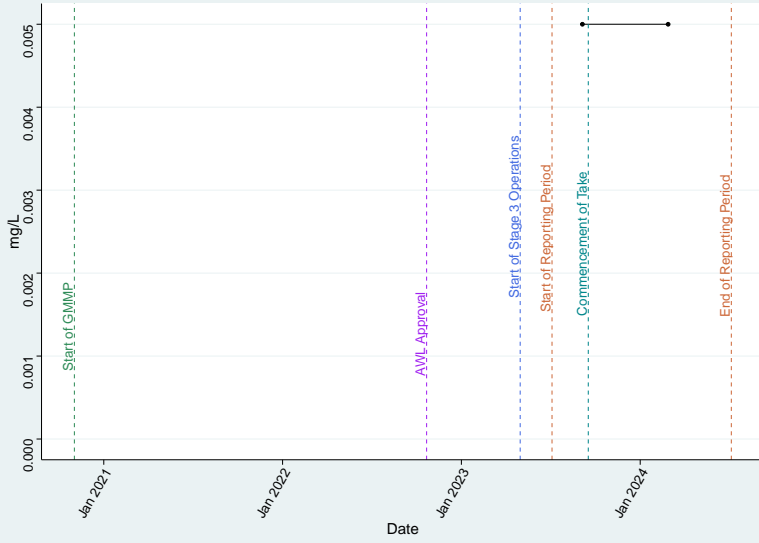
Bore B3 (Main Range Volcanics) – Nitrate as N

Mann Kendall Trend Test | τ = Not enough data | p -value = Not enough data | Not evaluated



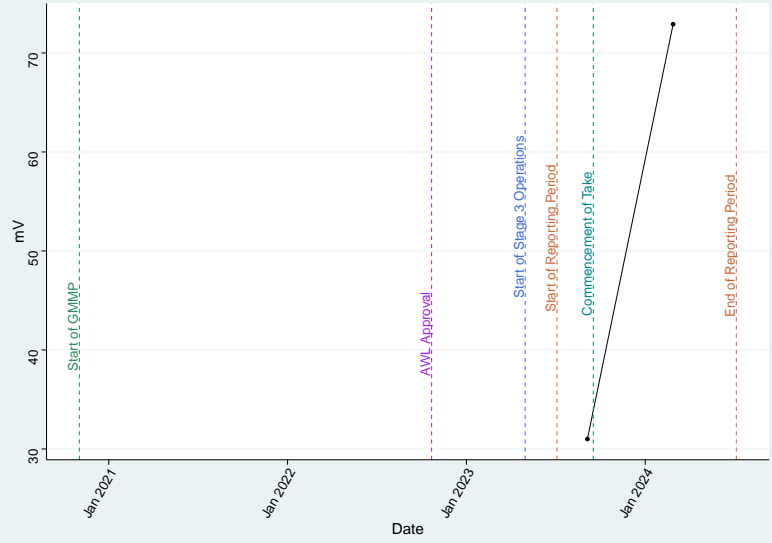
Bore B3 (Main Range Volcanics) – Nitrite as N

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



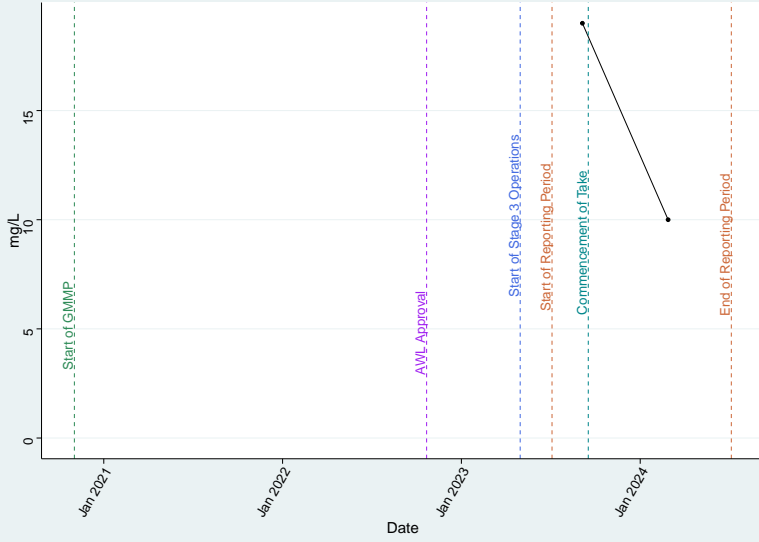
Bore B3 (Main Range Volcanics) – Redox_Field

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



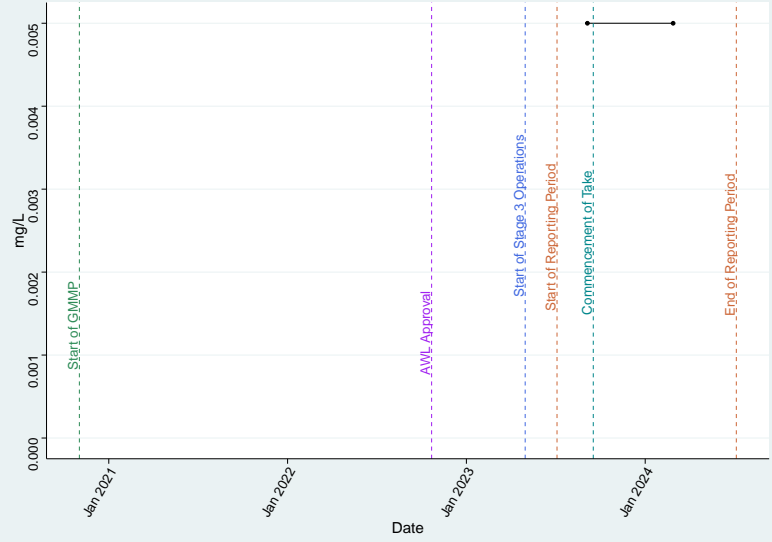
Bore B3 (Main Range Volcanics) – SO4

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



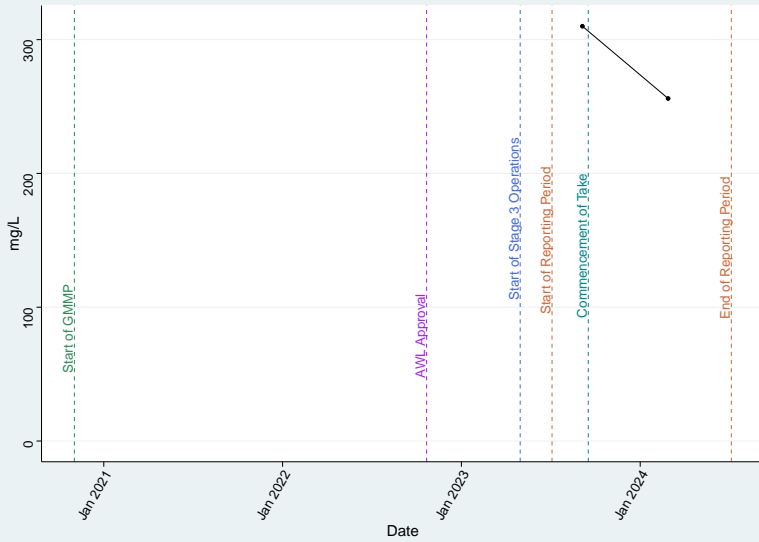
Bore B3 (Main Range Volcanics) – Se_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



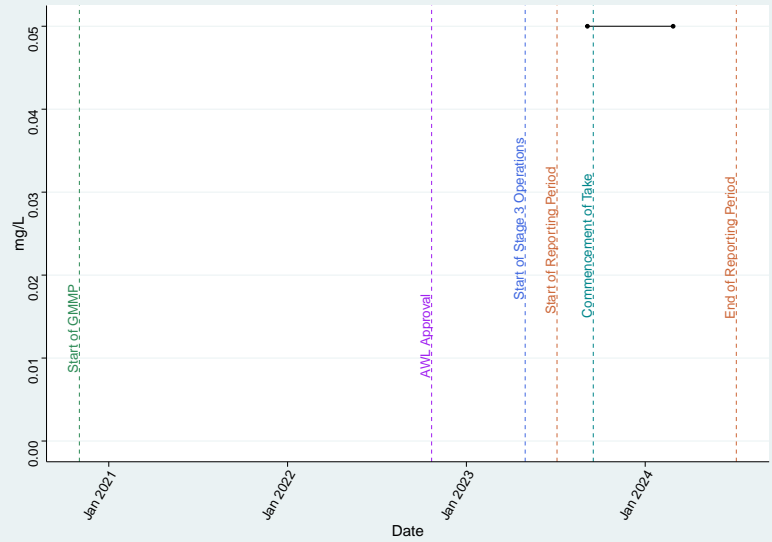
Bore B3 (Main Range Volcanics) – TDS

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



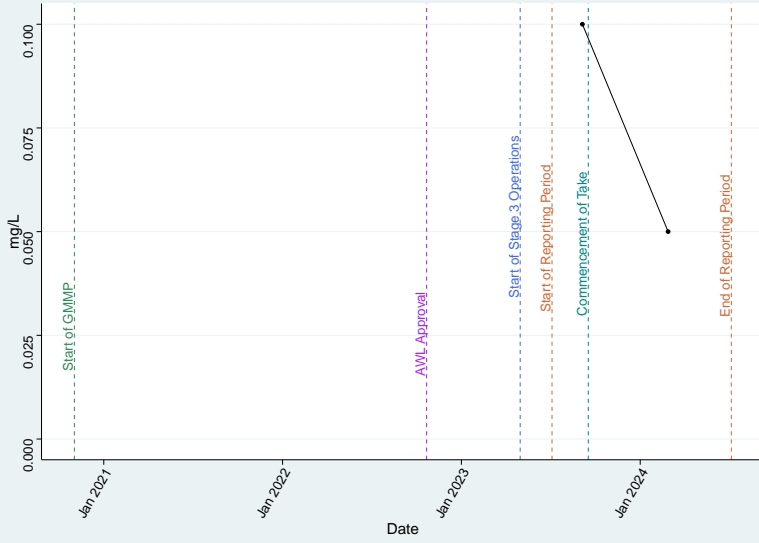
Bore B3 (Main Range Volcanics) – TKN

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



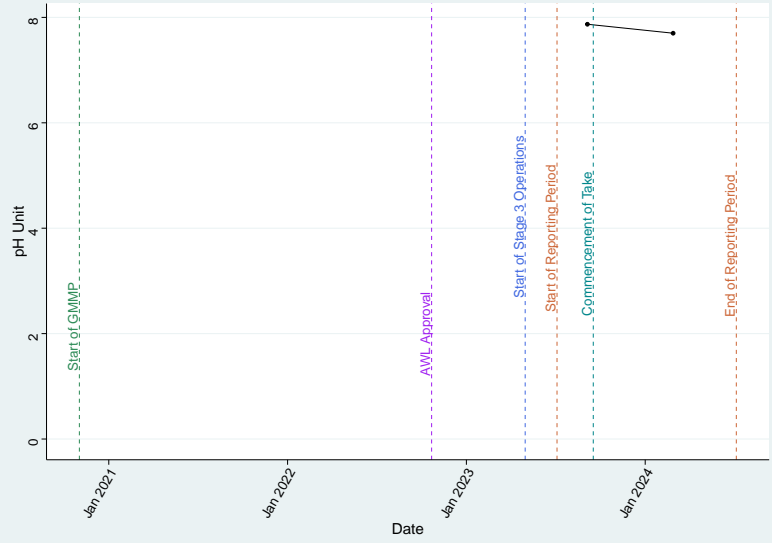
Bore B3 (Main Range Volcanics) – Total_N

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



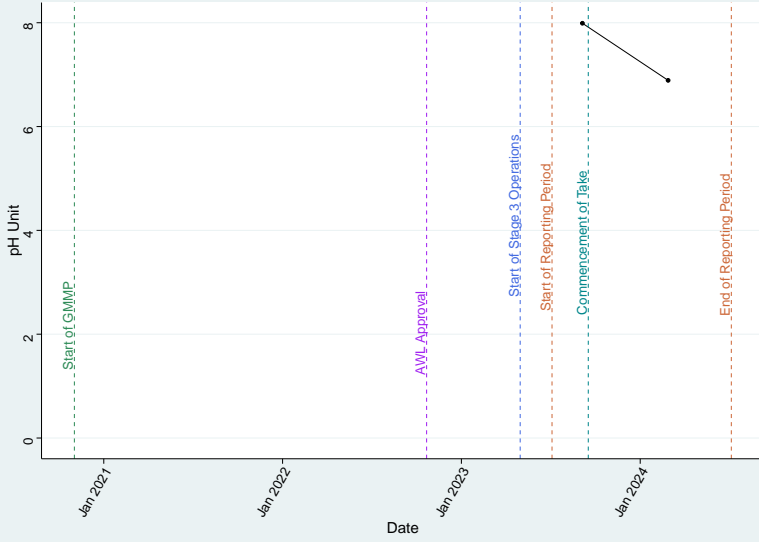
Bore B3 (Main Range Volcanics) – pH_Field

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



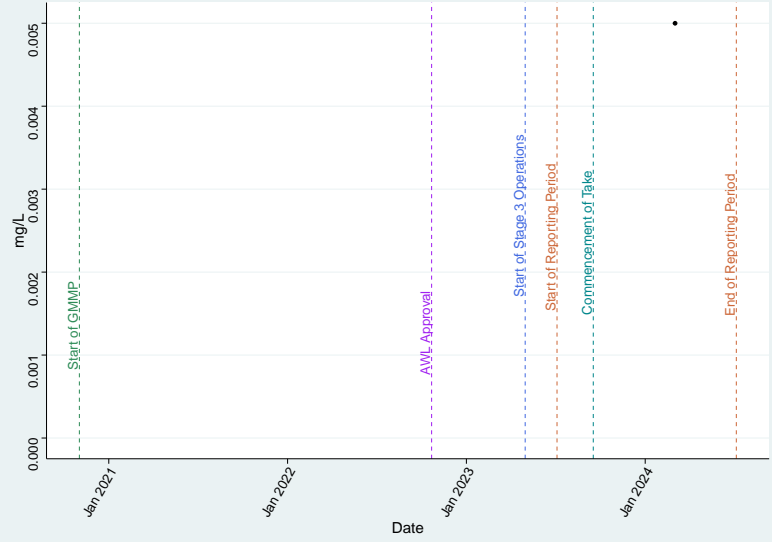
Bore B3 (Main Range Volcanics) – pH_Lab

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



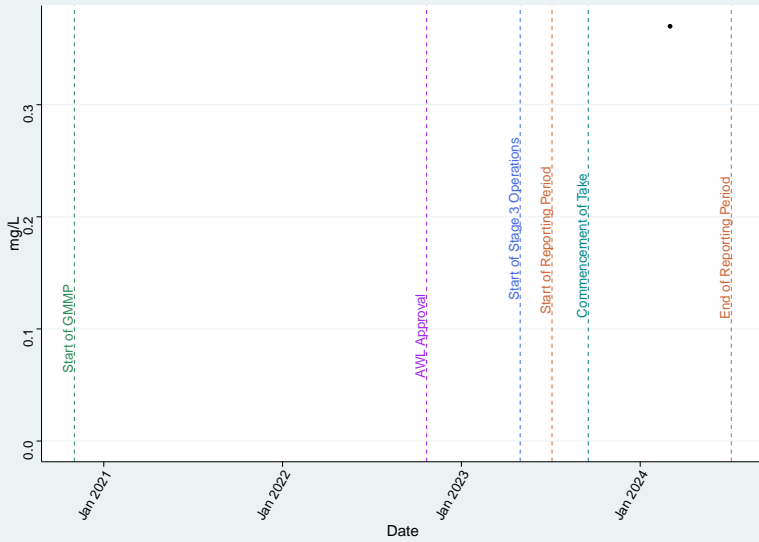
Bore B4 (Main Range Volcanics) – Al_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



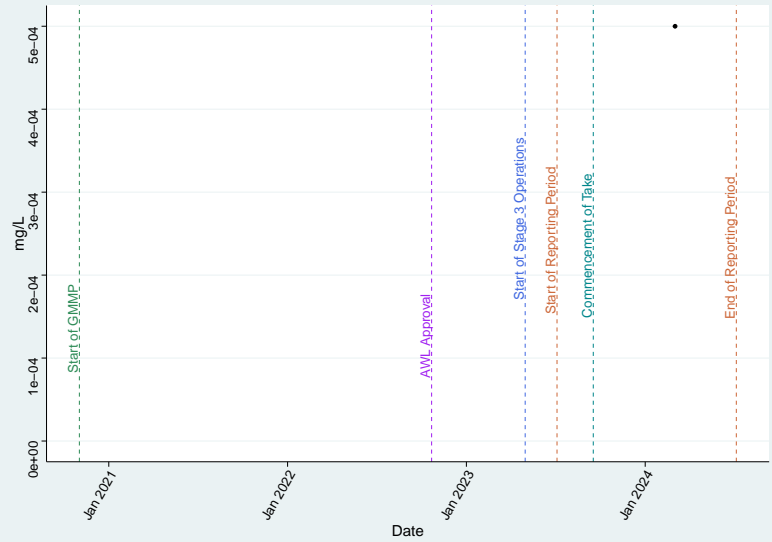
Bore B4 (Main Range Volcanics) – Ammonia as N

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



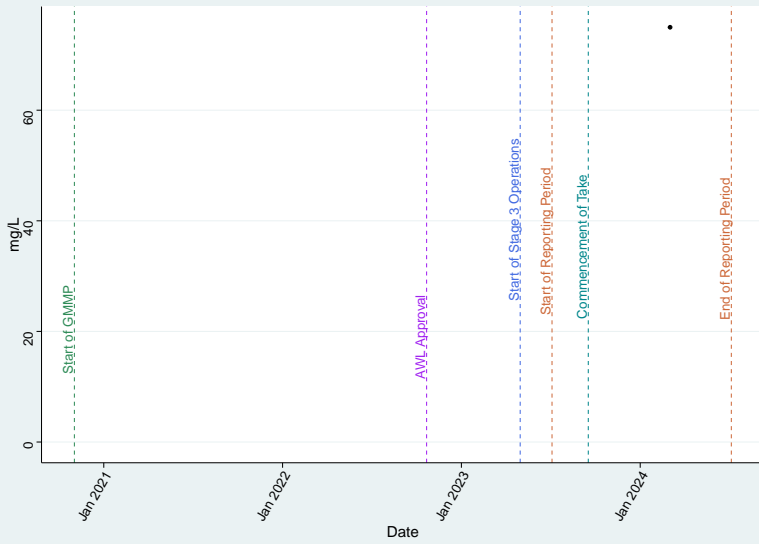
Bore B4 (Main Range Volcanics) – As_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



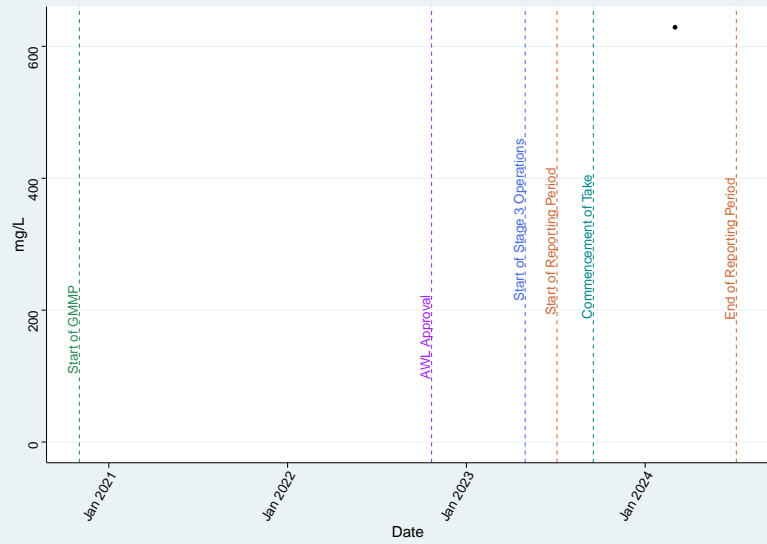
Bore B4 (Main Range Volcanics) – Ca

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



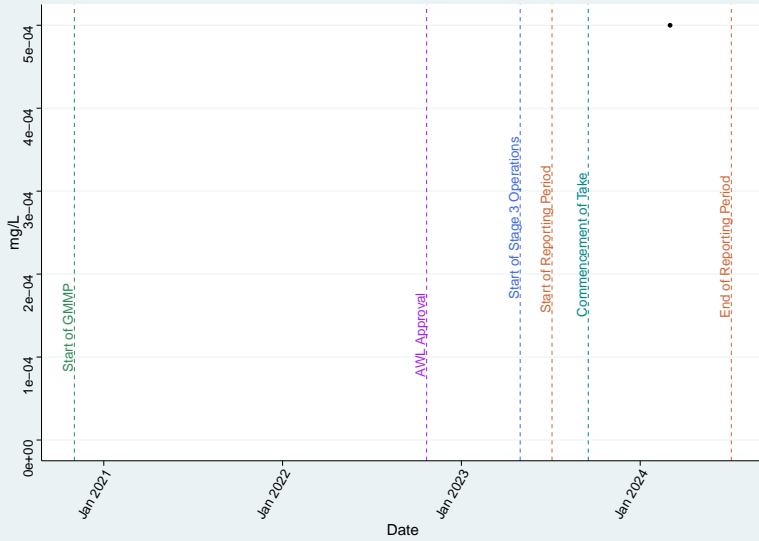
Bore B4 (Main Range Volcanics) – Cl

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



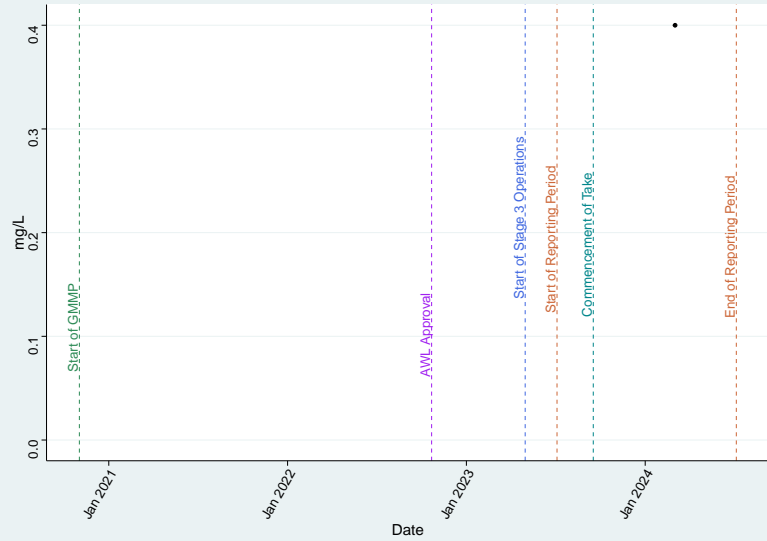
Bore B4 (Main Range Volcanics) – Cu_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



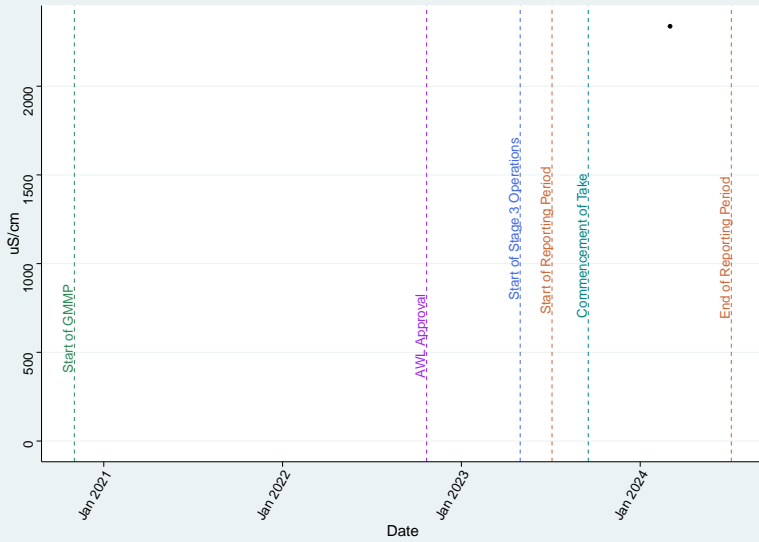
Bore B4 (Main Range Volcanics) – DO_Field

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



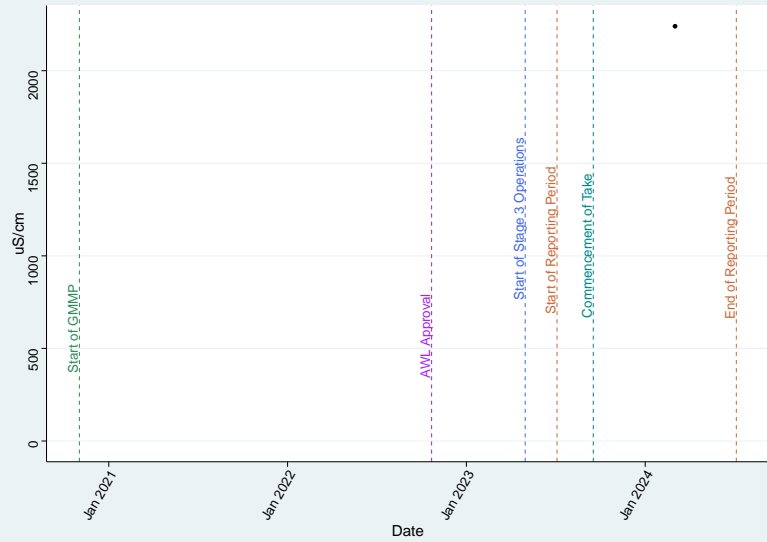
Bore B4 (Main Range Volcanics) – EC_Field

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



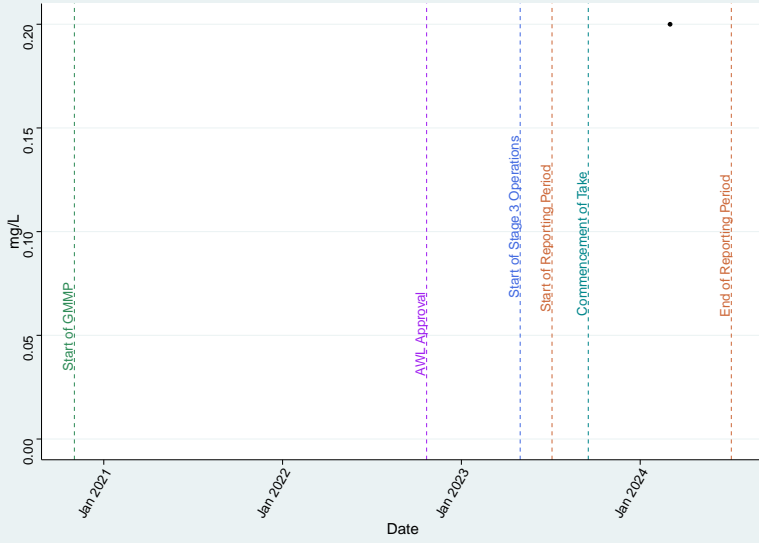
Bore B4 (Main Range Volcanics) – EC_Lab

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



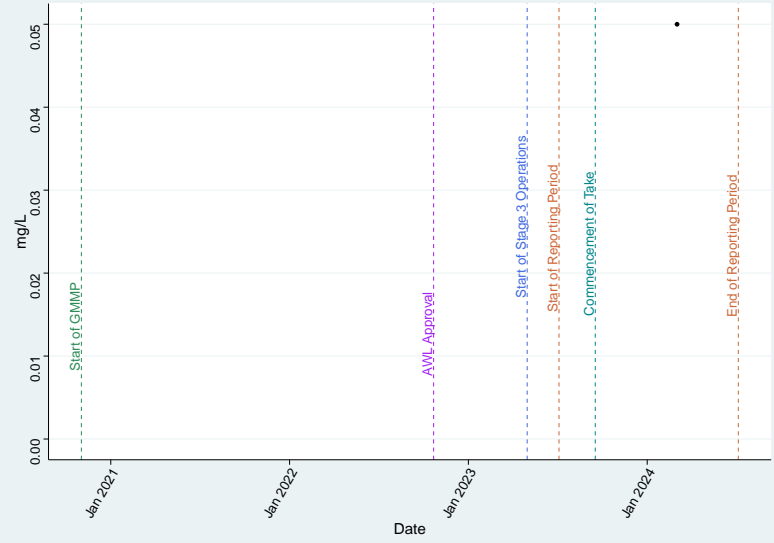
Bore B4 (Main Range Volcanics) – F

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



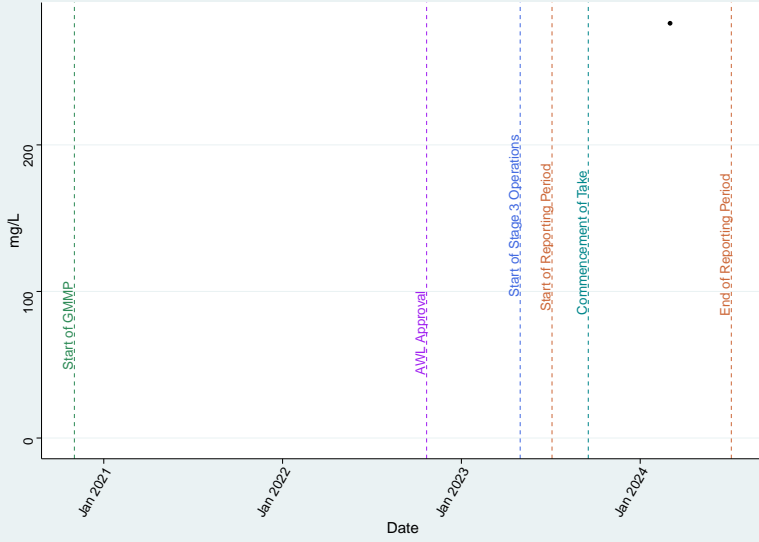
Bore B4 (Main Range Volcanics) – Fe_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



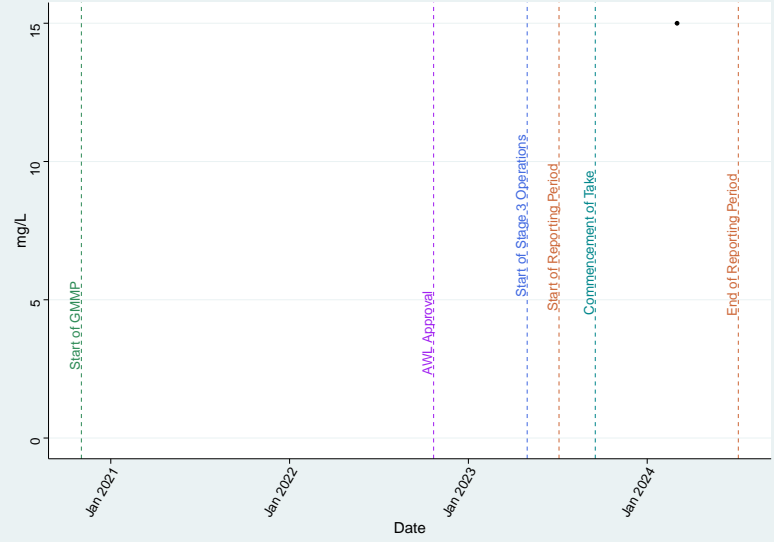
Bore B4 (Main Range Volcanics) – HCO3

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



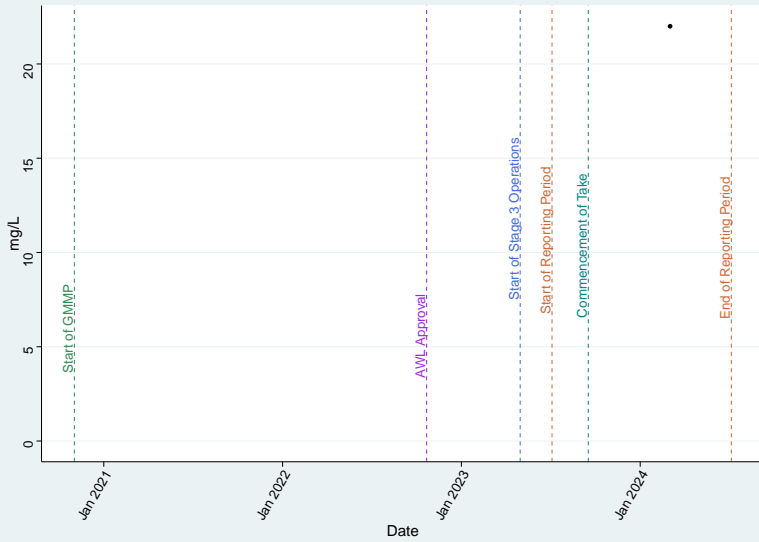
Bore B4 (Main Range Volcanics) – K

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



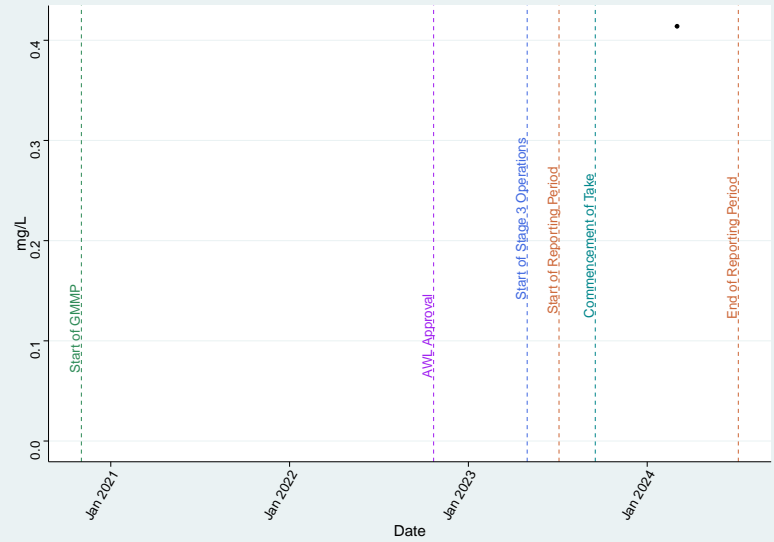
Bore B4 (Main Range Volcanics) – Mg

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



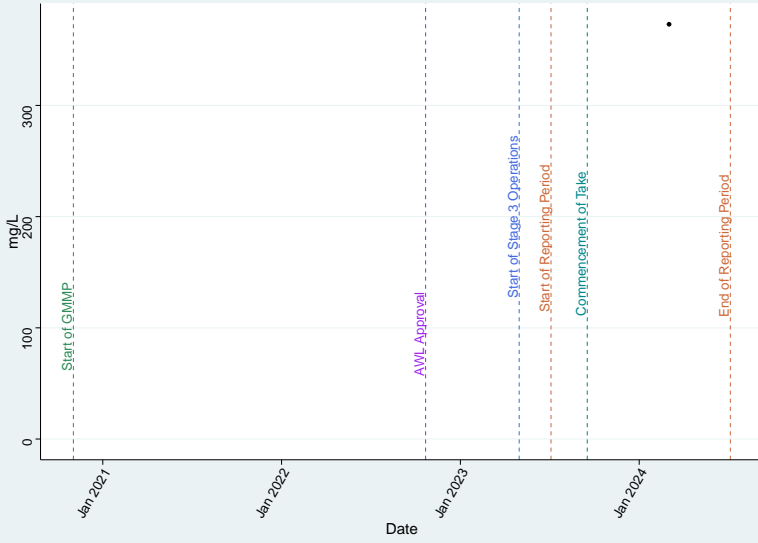
Bore B4 (Main Range Volcanics) – Mn_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



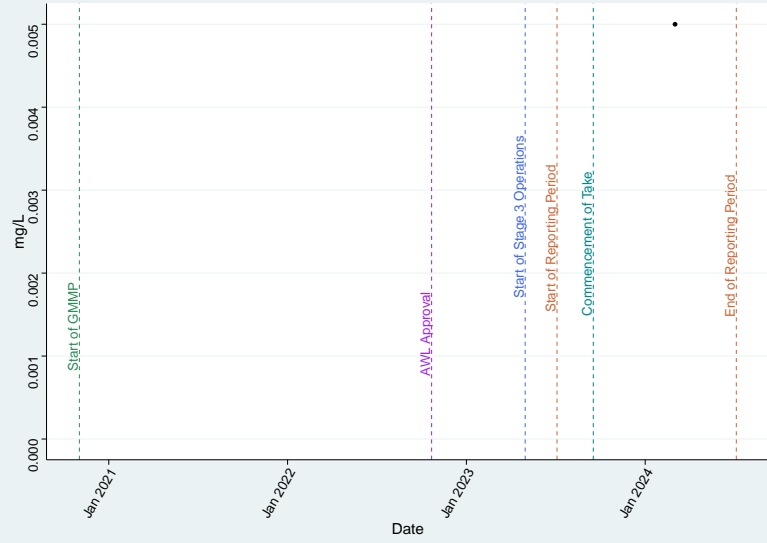
Bore B4 (Main Range Volcanics) – Na

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



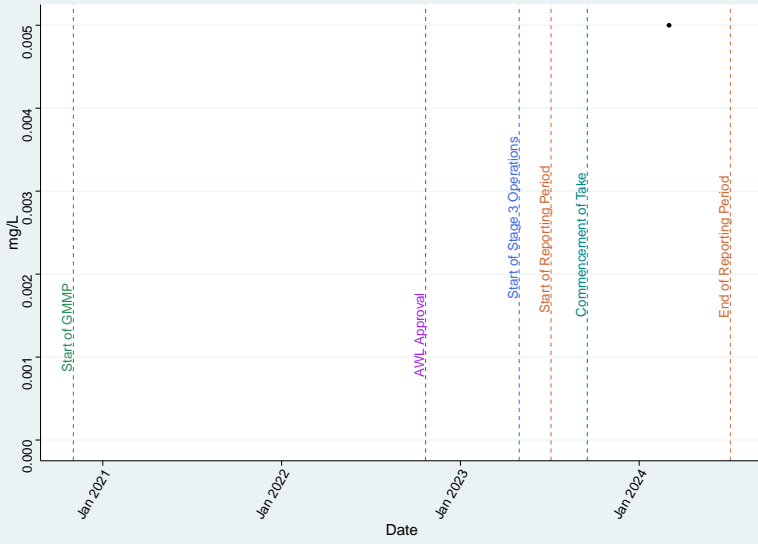
Bore B4 (Main Range Volcanics) – Nitrate as N

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



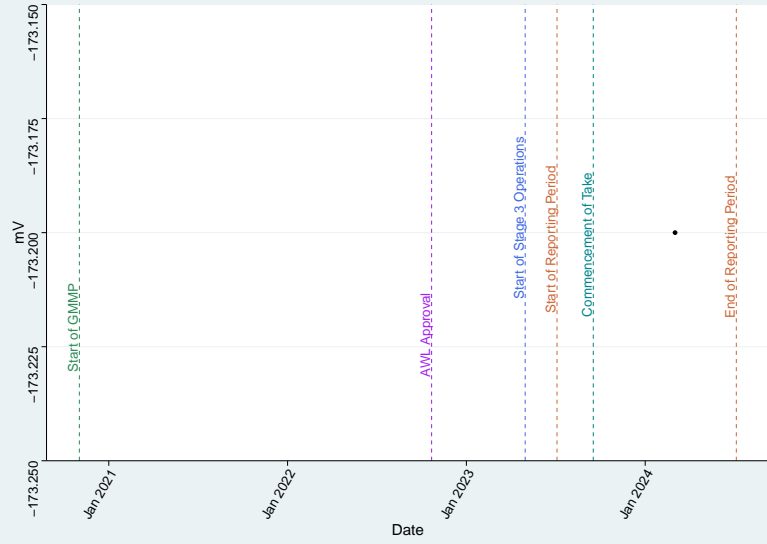
Bore B4 (Main Range Volcanics) – Nitrite as N

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



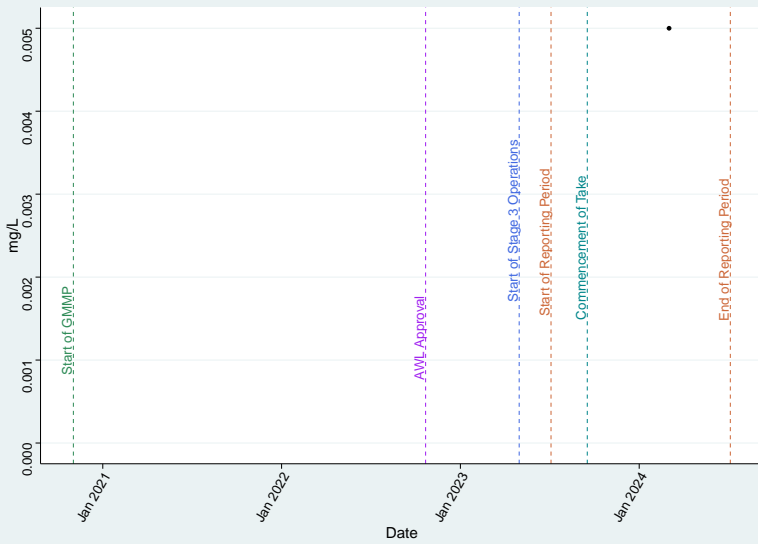
Bore B4 (Main Range Volcanics) – Redox_Field

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



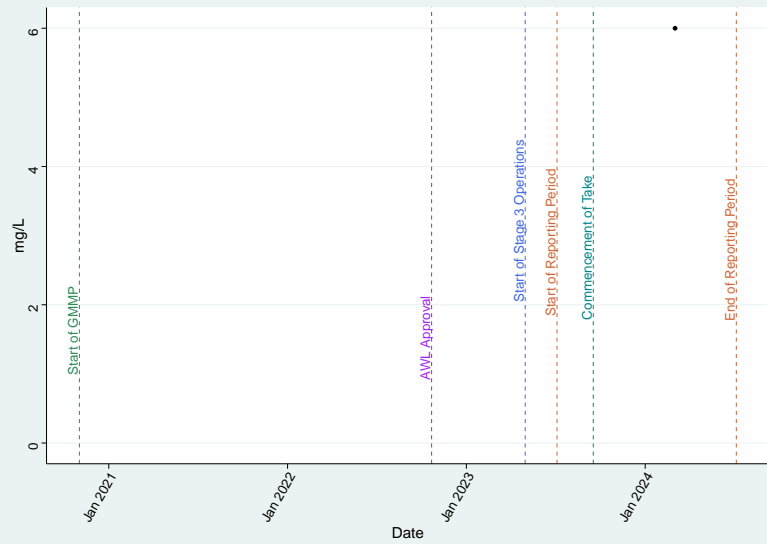
Bore B4 (Main Range Volcanics) – Se_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



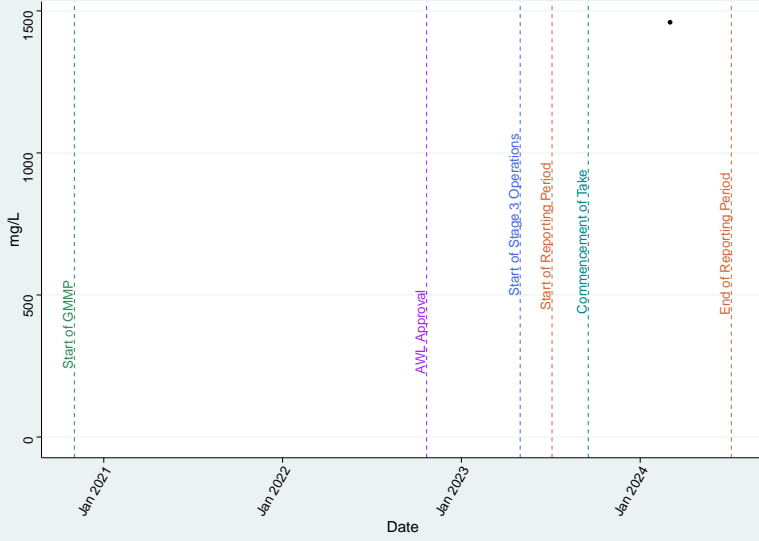
Bore B4 (Main Range Volcanics) – SO4

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



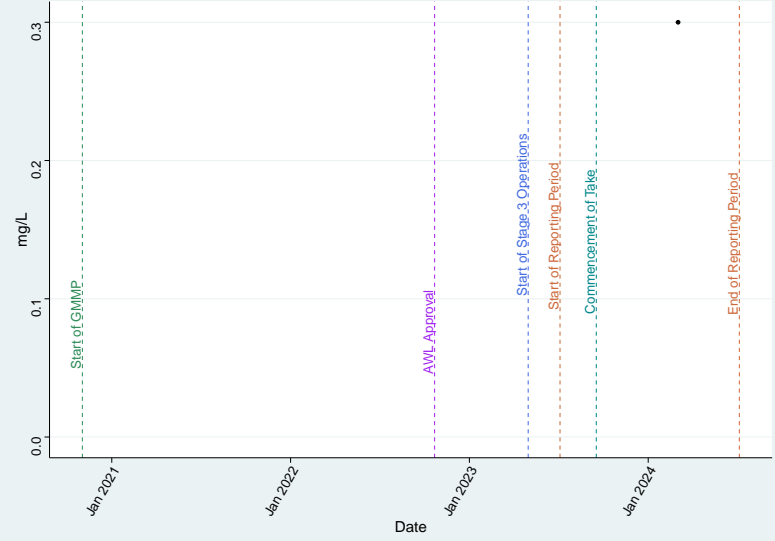
Bore B4 (Main Range Volcanics) – TDS

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



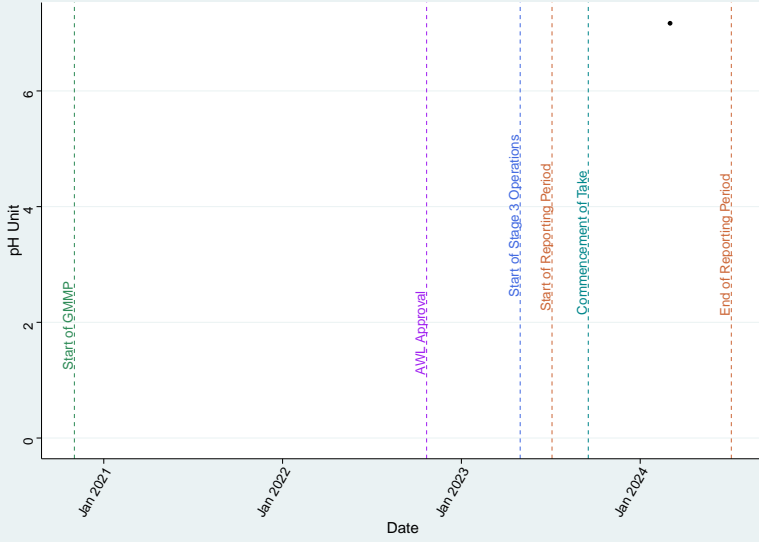
Bore B4 (Main Range Volcanics) – TKN

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



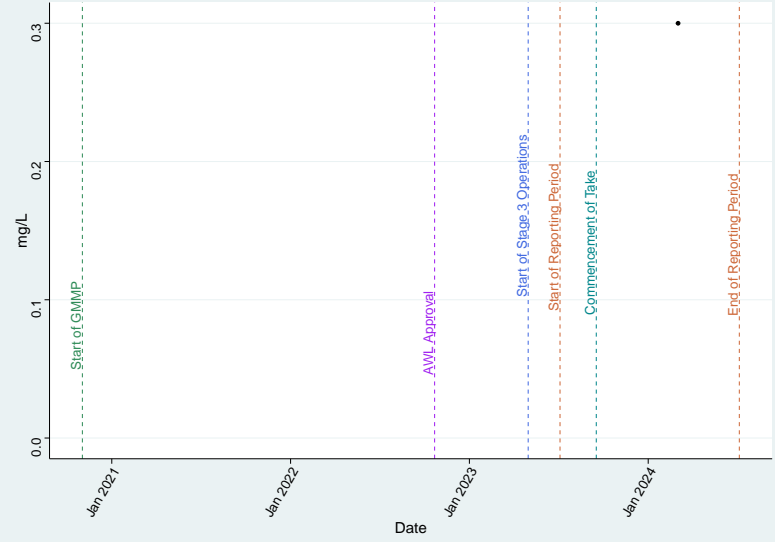
Bore B4 (Main Range Volcanics) – pH_Field

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



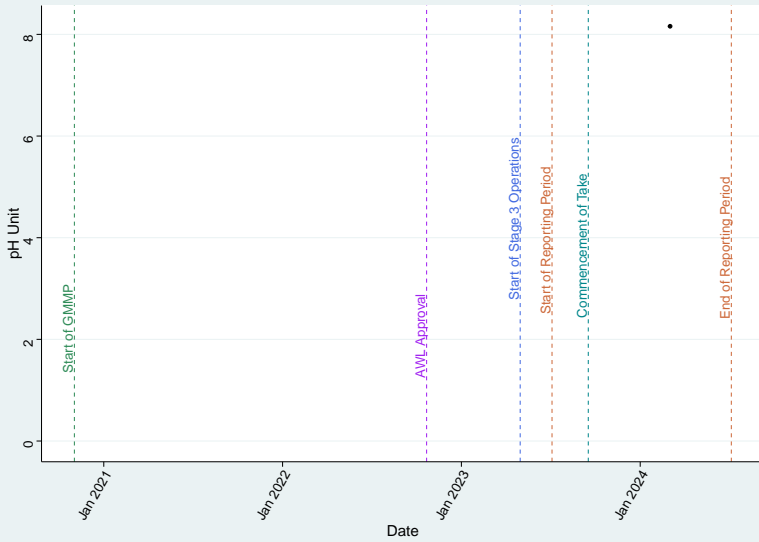
Bore B4 (Main Range Volcanics) – Total_N

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



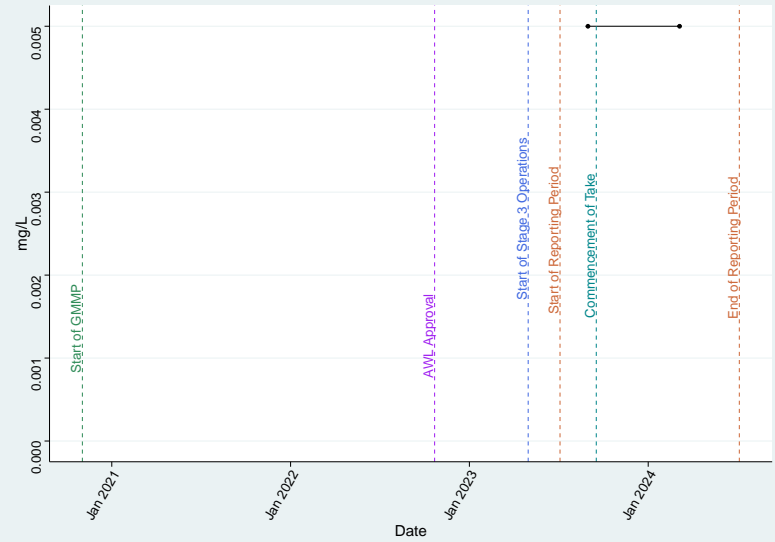
Bore B4 (Main Range Volcanics) – pH_Lab

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



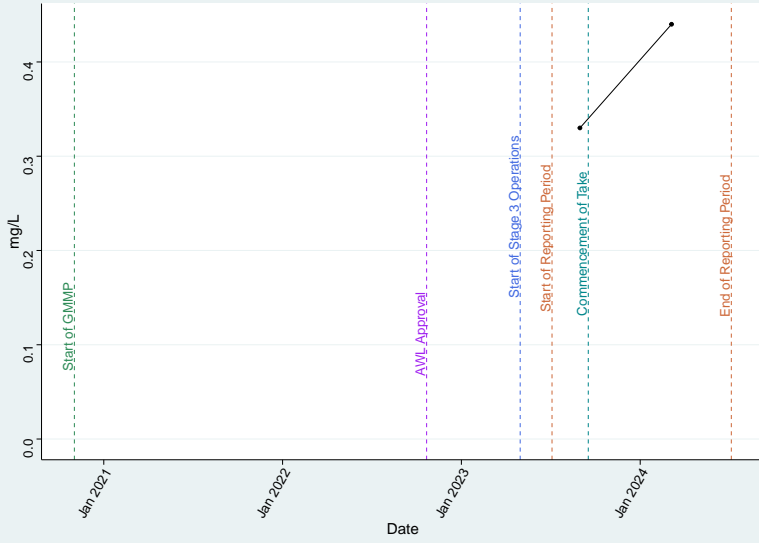
Bore BCS1 (Balgowan Coal Sequence) – Al_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



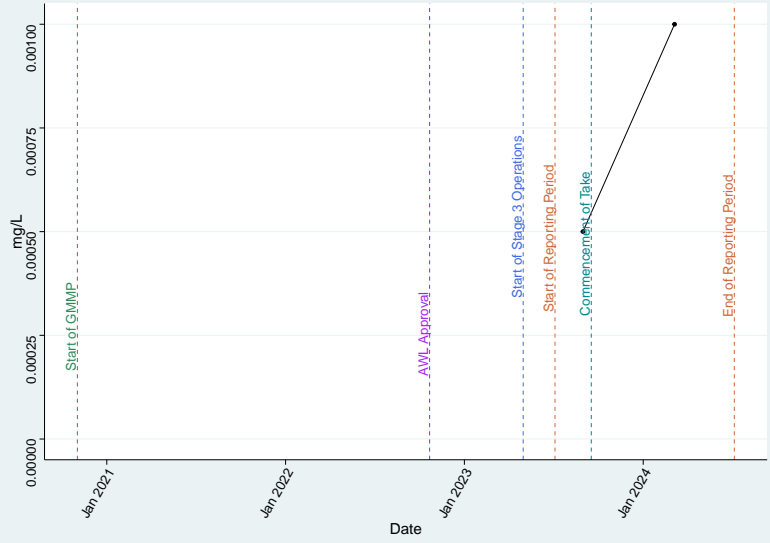
Bore BCS1 (Balgowan Coal Sequence) – Ammonia as N

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



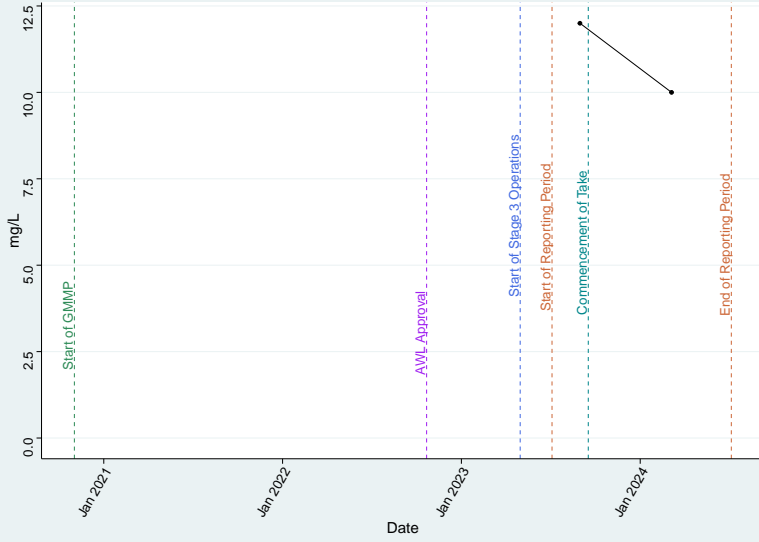
Bore BCS1 (Balgowan Coal Sequence) – As_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



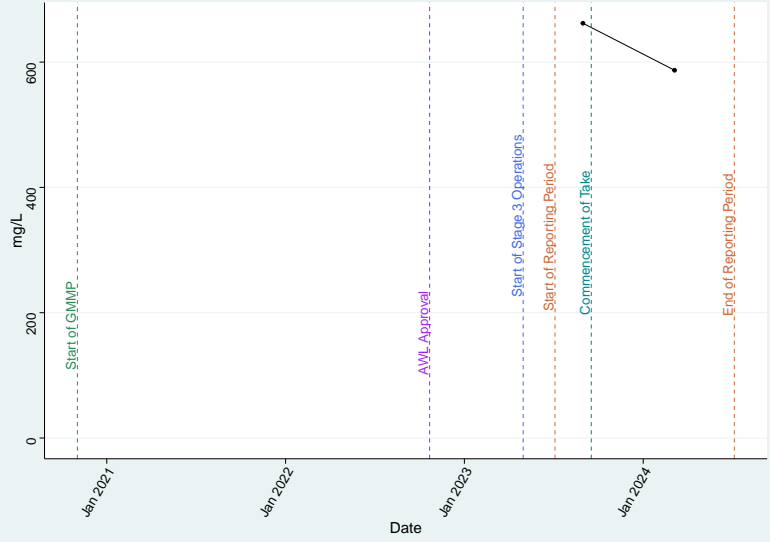
Bore BCS1 (Balgowan Coal Sequence) – Ca

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



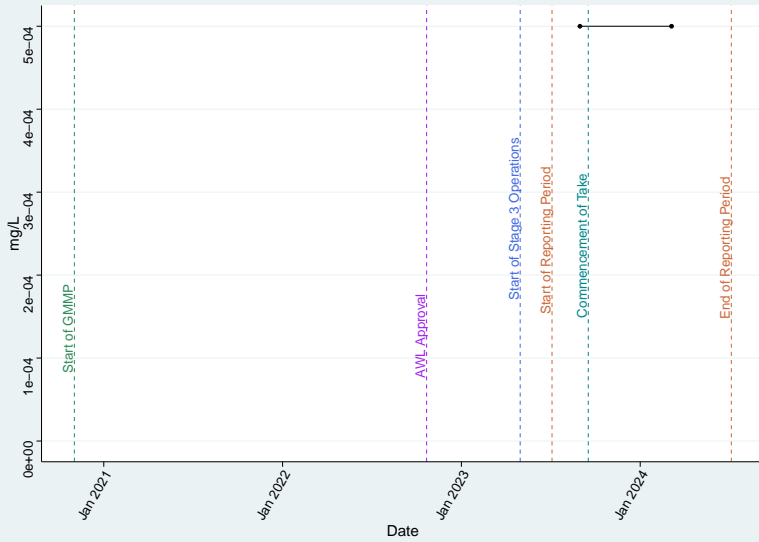
Bore BCS1 (Balgowan Coal Sequence) – Cl

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



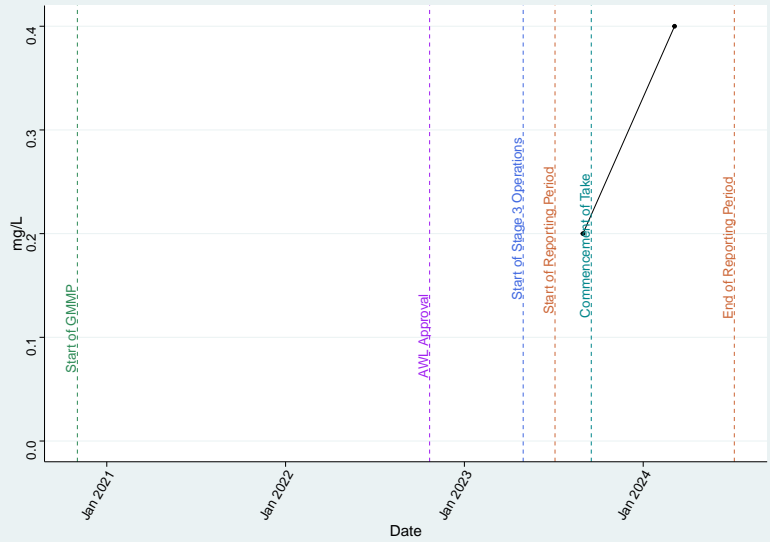
Bore BCS1 (Balgowan Coal Sequence) – Cu_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



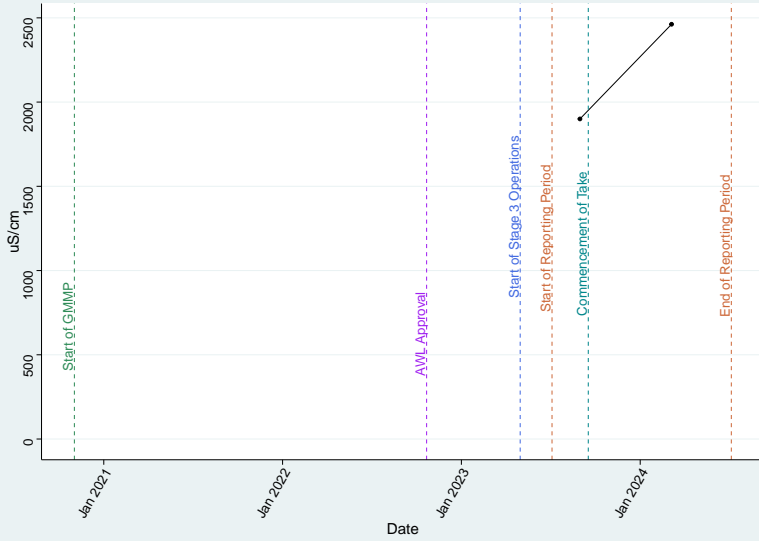
Bore BCS1 (Balgowan Coal Sequence) – DO_Field

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



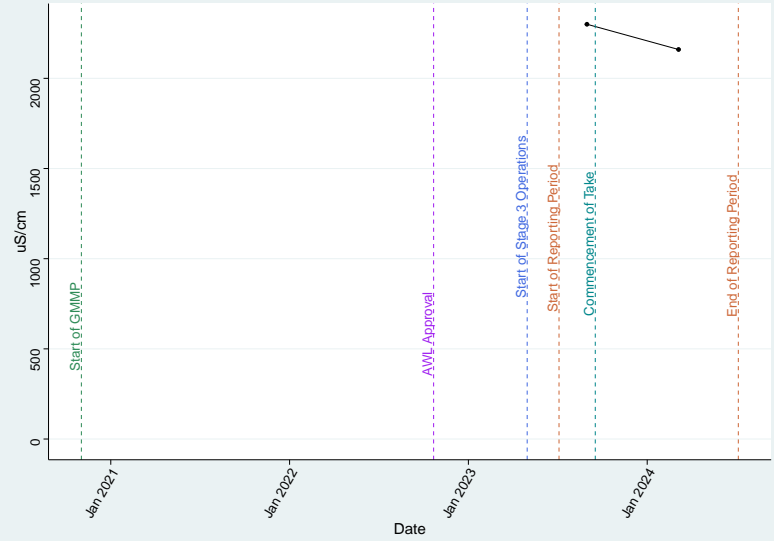
Bore BCS1 (Balgowan Coal Sequence) – EC_Field

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



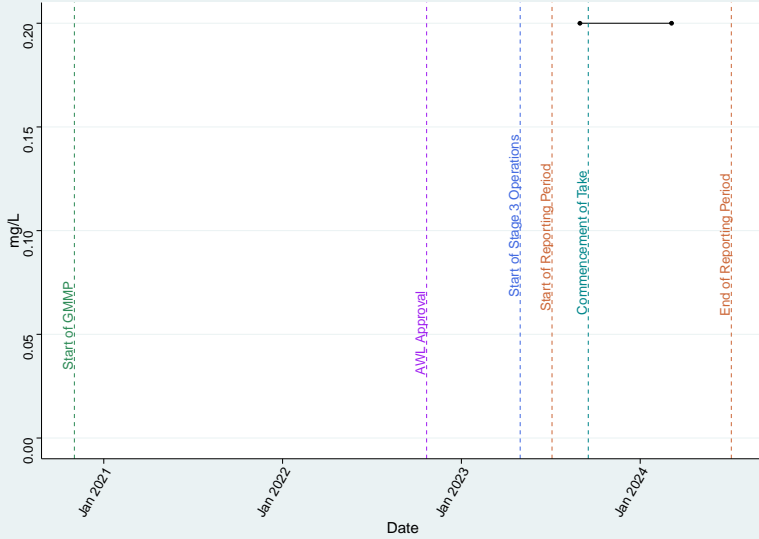
Bore BCS1 (Balgowan Coal Sequence) – EC_Lab

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



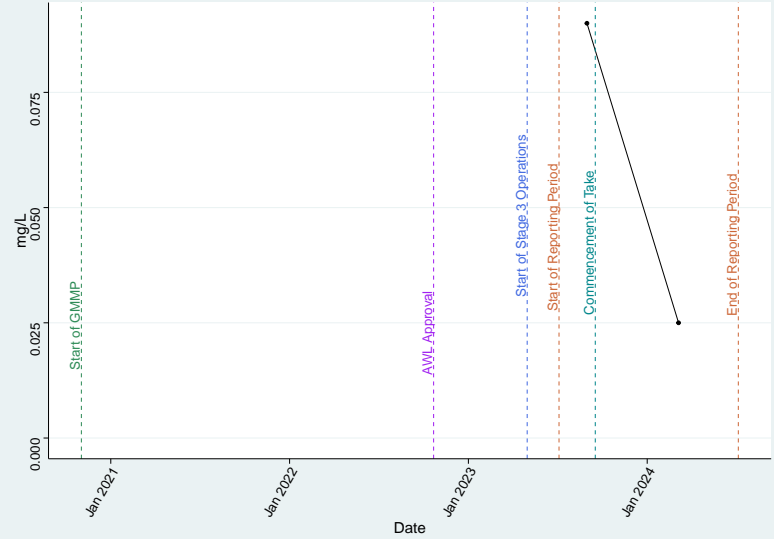
Bore BCS1 (Balgowan Coal Sequence) – F

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



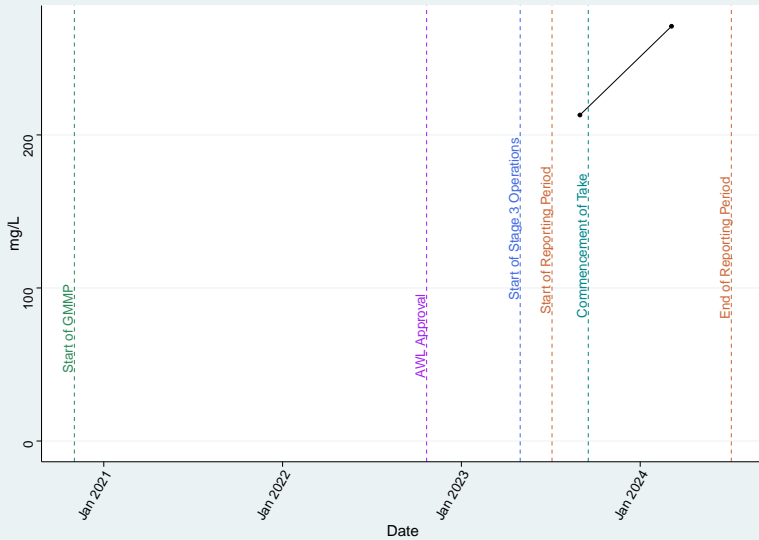
Bore BCS1 (Balgowan Coal Sequence) – Fe_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



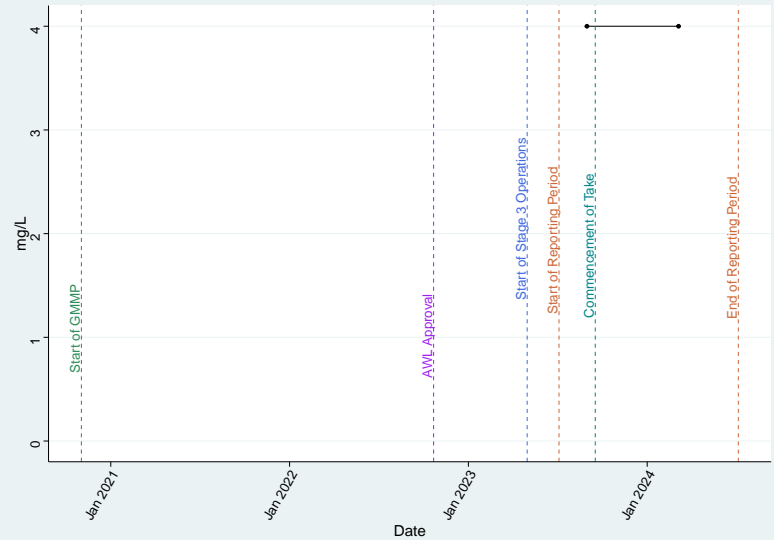
Bore BCS1 (Balgowan Coal Sequence) – HCO3

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



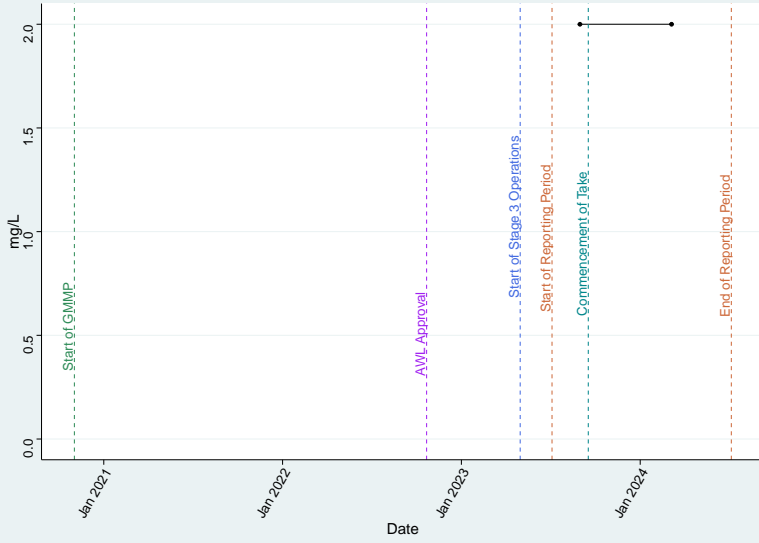
Bore BCS1 (Balgowan Coal Sequence) – K

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



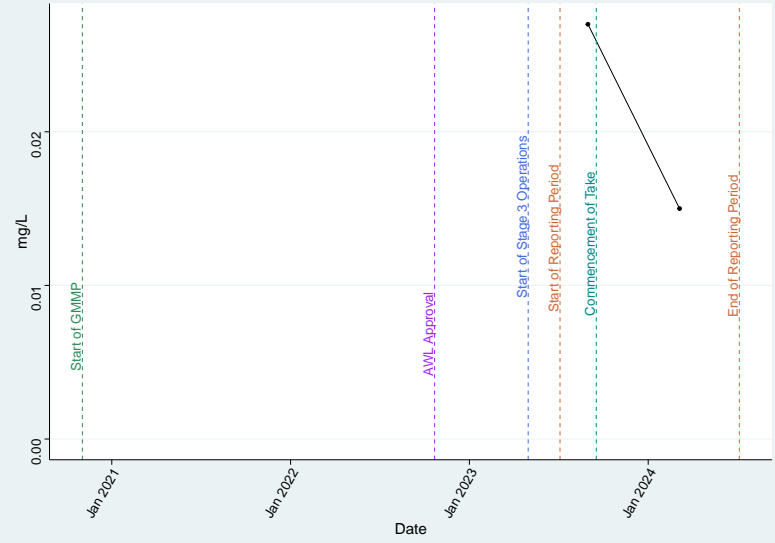
Bore BCS1 (Balgowan Coal Sequence) – Mg

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



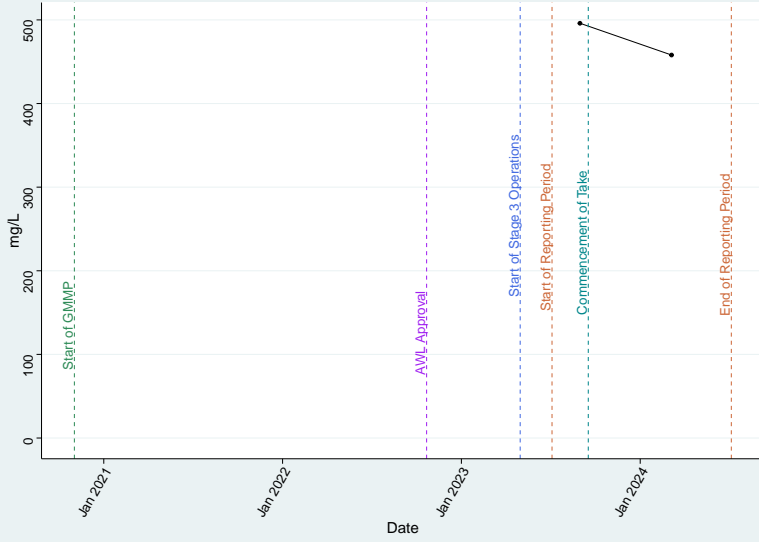
Bore BCS1 (Balgowan Coal Sequence) – Mn_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



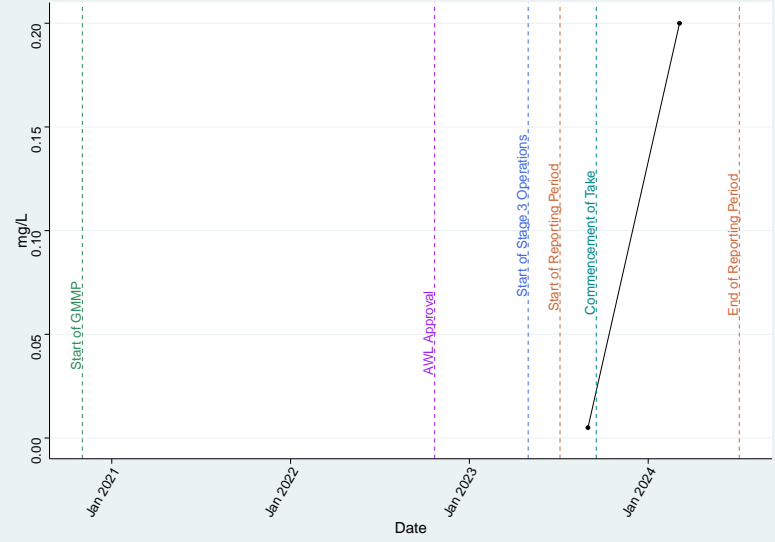
Bore BCS1 (Balgowan Coal Sequence) – Na

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



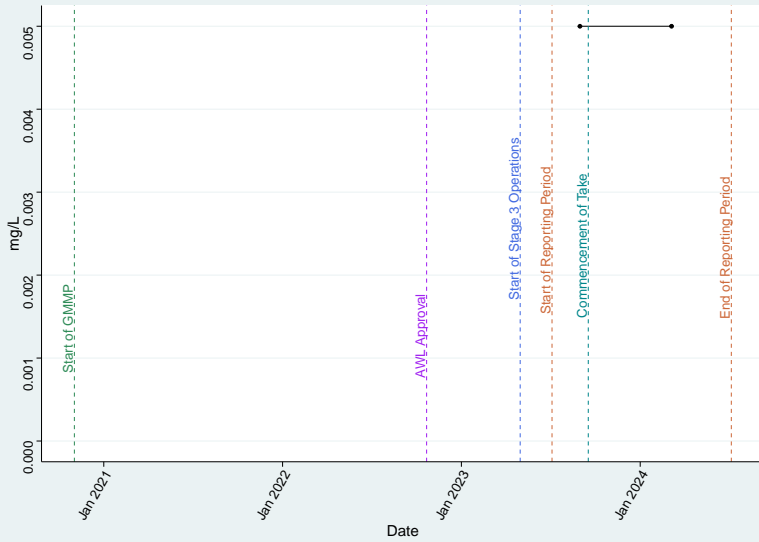
Bore BCS1 (Balgowan Coal Sequence) – Nitrate as N

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



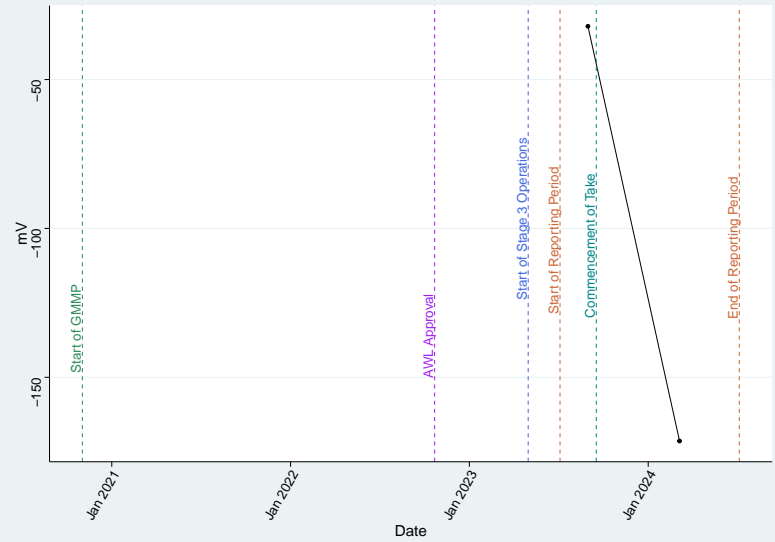
Bore BCS1 (Balgowan Coal Sequence) – Nitrite as N

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



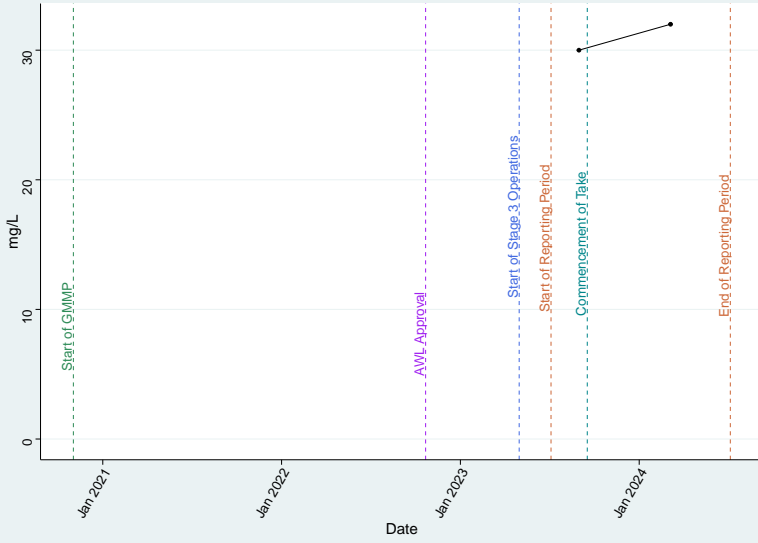
Bore BCS1 (Balgowan Coal Sequence) – Redox_Field

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



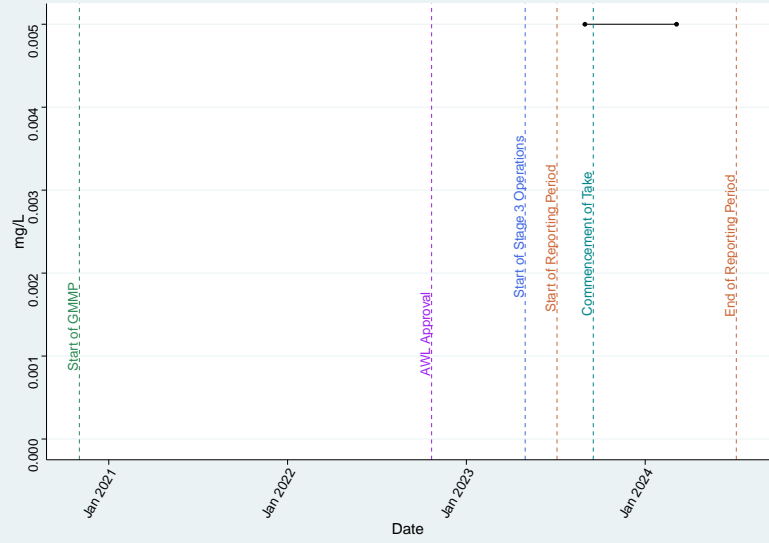
Bore BCS1 (Balgowan Coal Sequence) – SO4

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



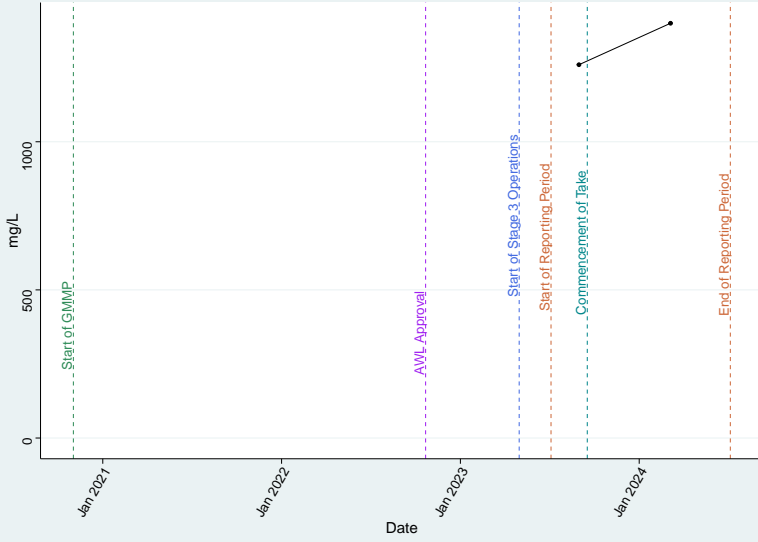
Bore BCS1 (Balgowan Coal Sequence) – Se_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



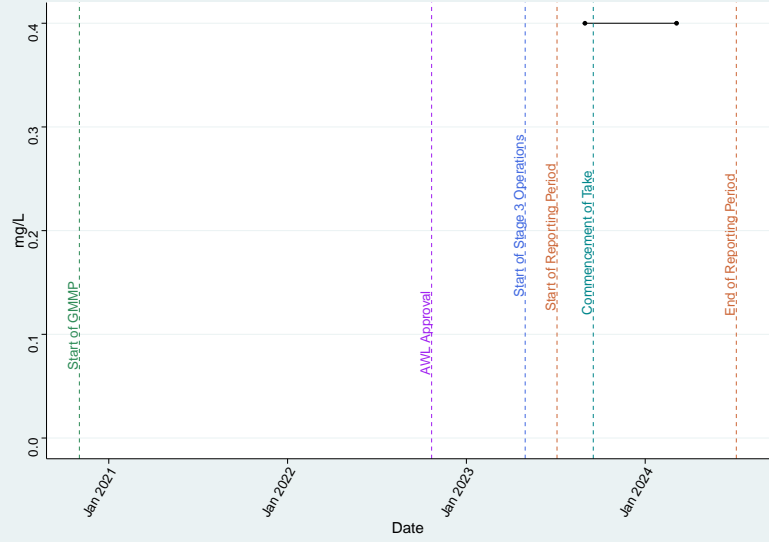
Bore BCS1 (Balgowan Coal Sequence) – TDS

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



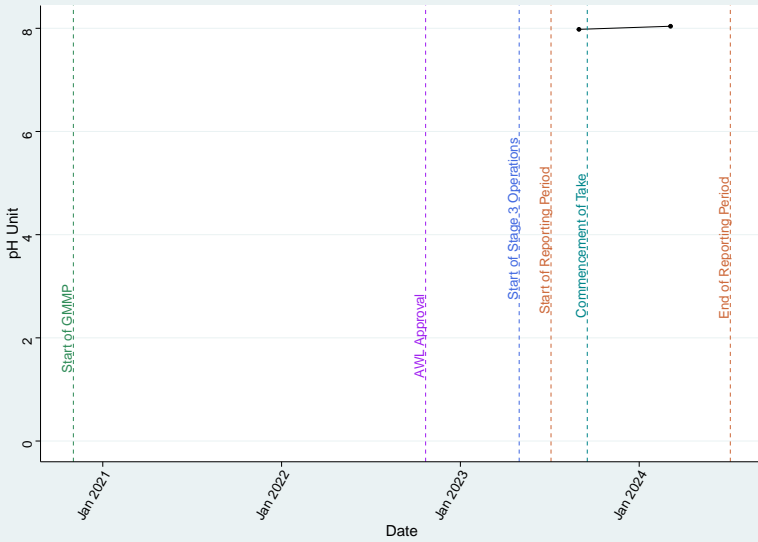
Bore BCS1 (Balgowan Coal Sequence) – TKN

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



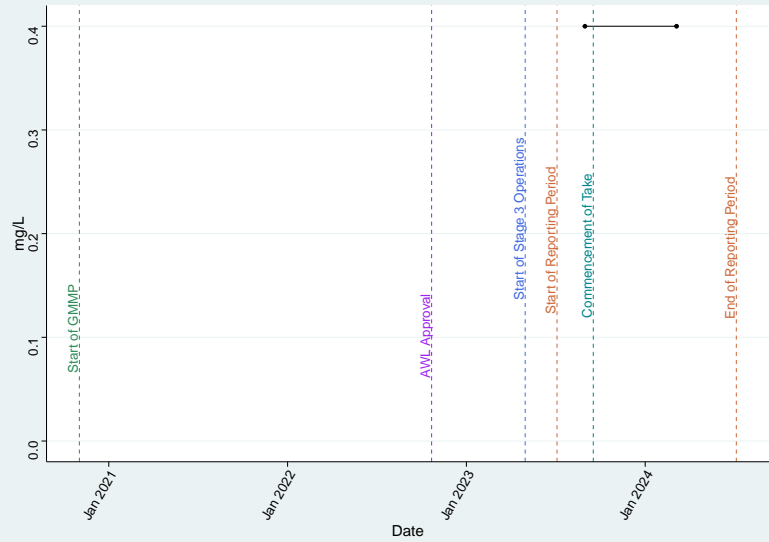
Bore BCS1 (Balgowan Coal Sequence) – pH_Field

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



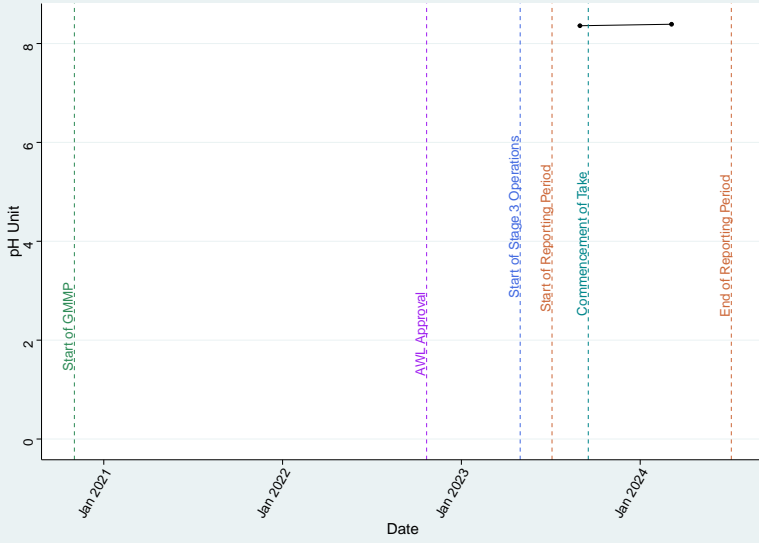
Bore BCS1 (Balgowan Coal Sequence) – Total_N

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



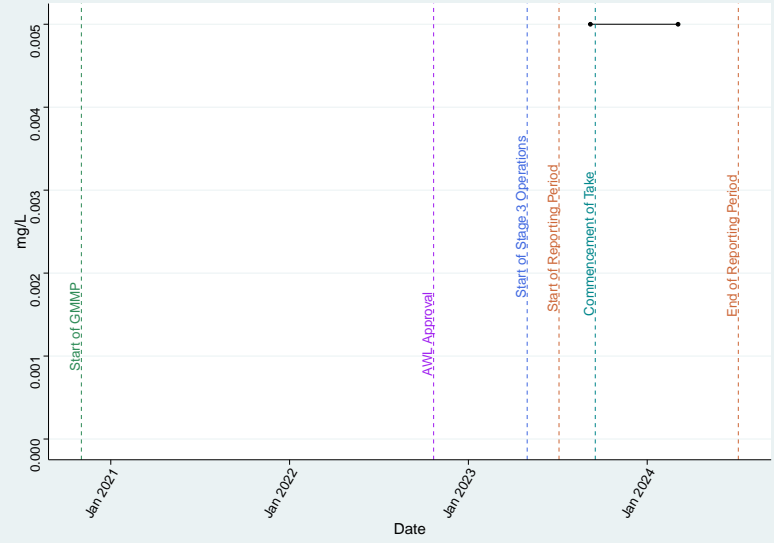
Bore BCS1 (Balgowan Coal Sequence) – pH_Lab

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



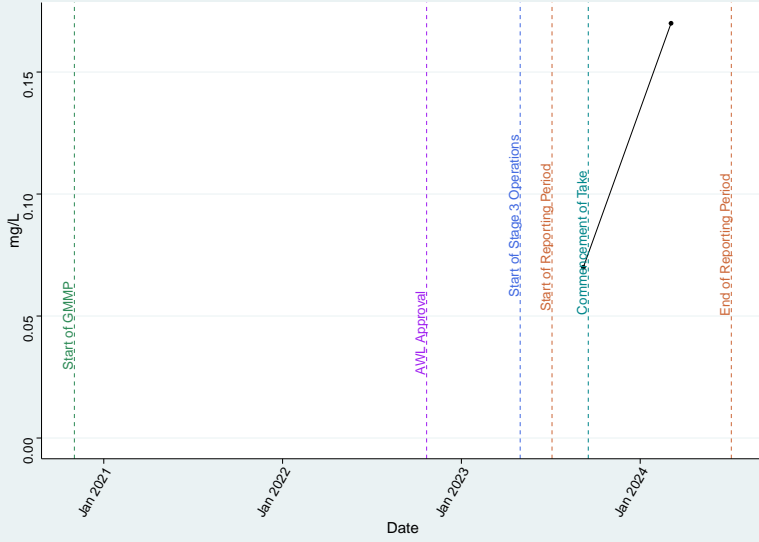
Bore BCS2 (Balgowan Coal Sequence) – Al_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



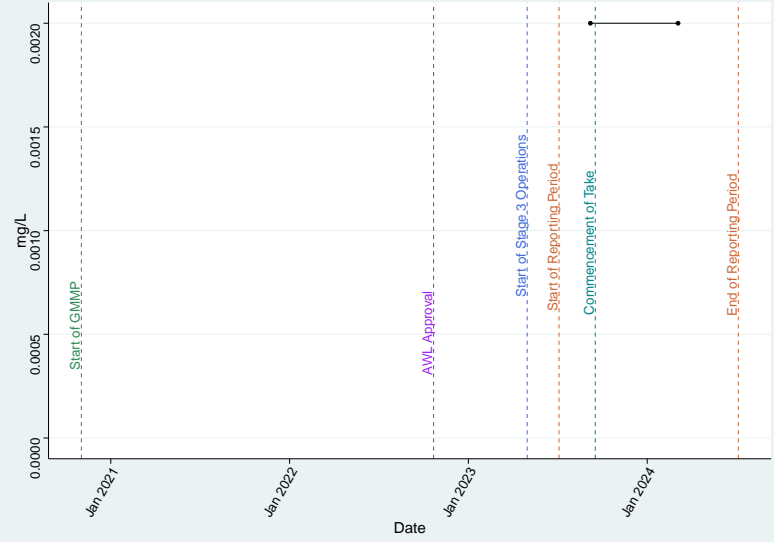
Bore BCS2 (Balgowan Coal Sequence) – Ammonia as N

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



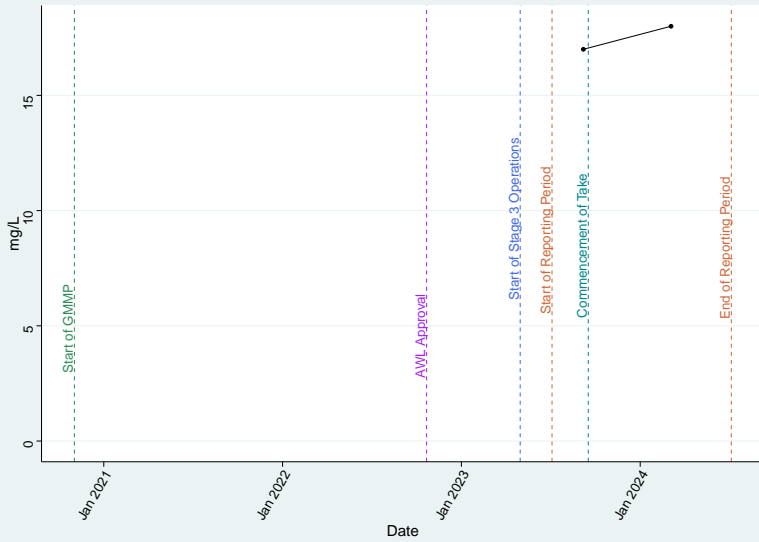
Bore BCS2 (Balgowan Coal Sequence) – As_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



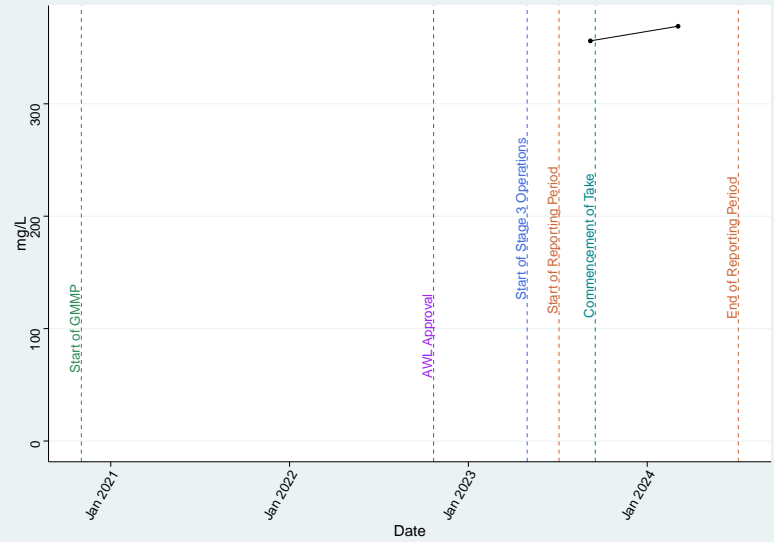
Bore BCS2 (Balgowan Coal Sequence) – Ca

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



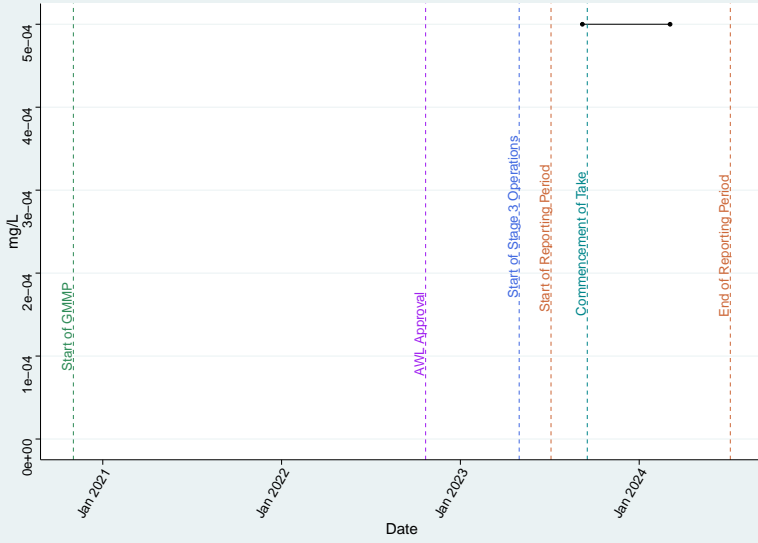
Bore BCS2 (Balgowan Coal Sequence) – Cl

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



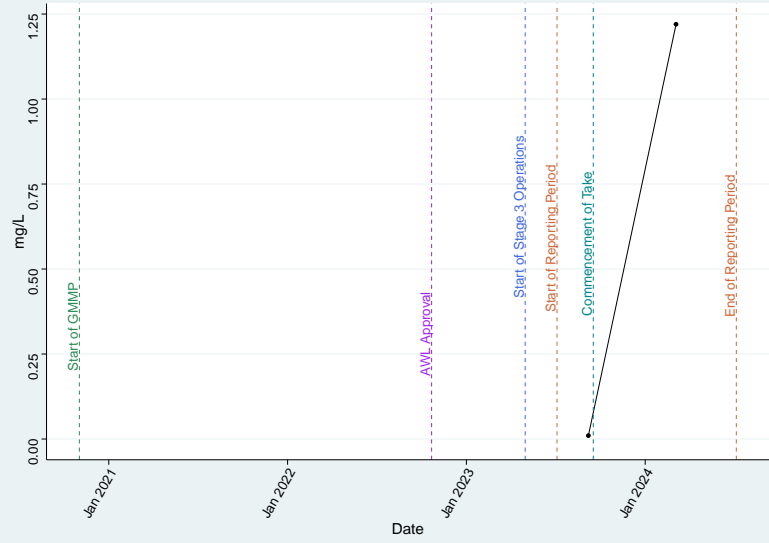
Bore BCS2 (Balgowan Coal Sequence) – Cu_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



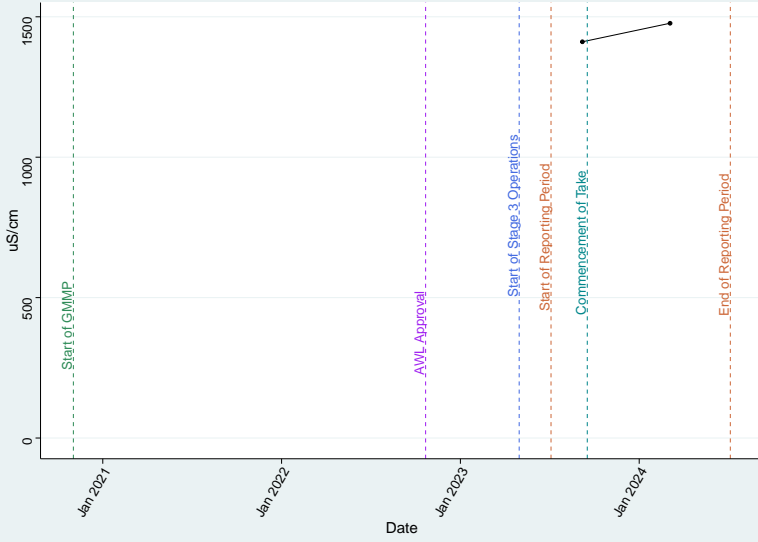
Bore BCS2 (Balgowan Coal Sequence) – DO_Field

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



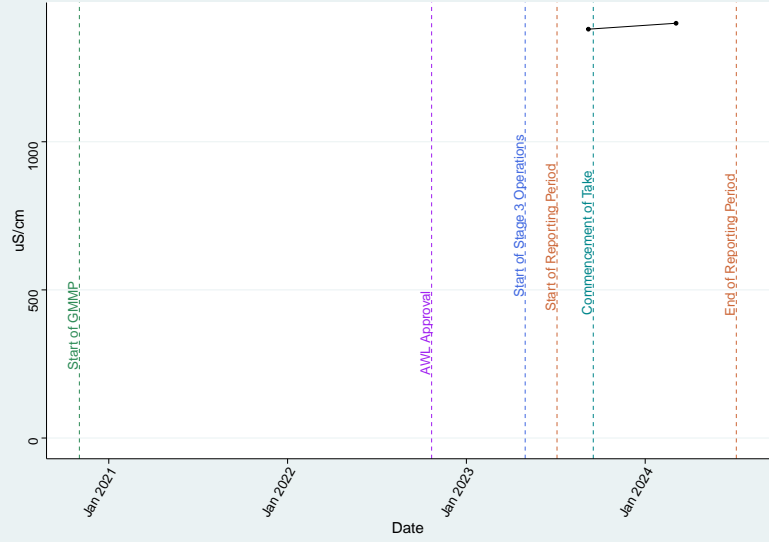
Bore BCS2 (Balgowan Coal Sequence) – EC_Field

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



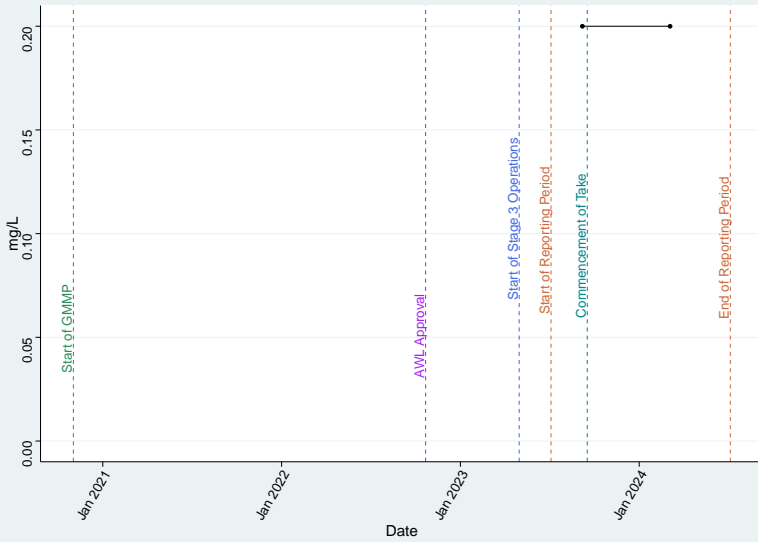
Bore BCS2 (Balgowan Coal Sequence) – EC_Lab

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



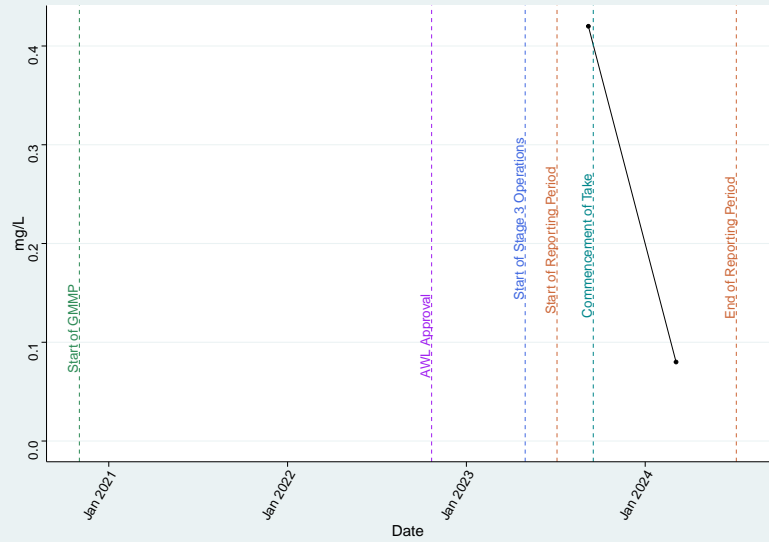
Bore BCS2 (Balgowan Coal Sequence) – F

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



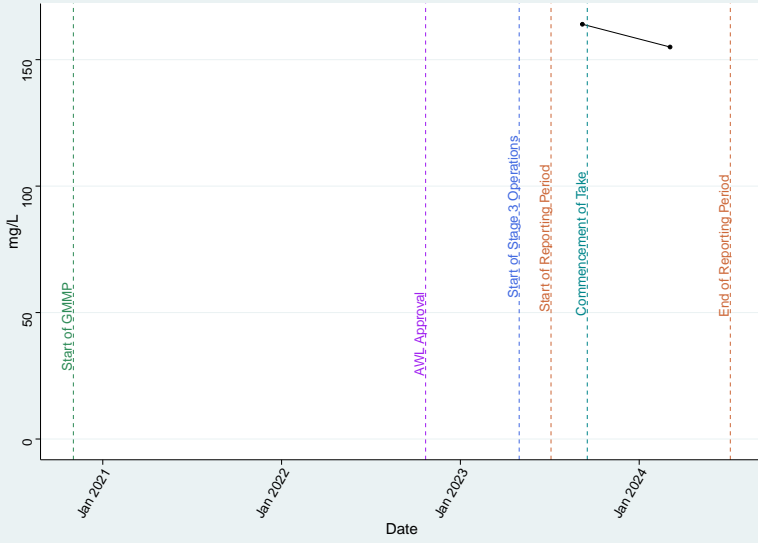
Bore BCS2 (Balgowan Coal Sequence) – Fe_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



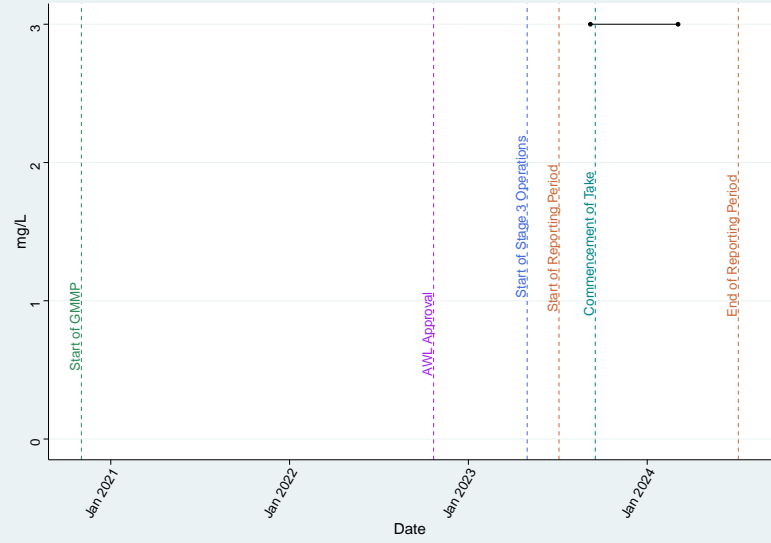
Bore BCS2 (Balgowan Coal Sequence) – HCO3

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



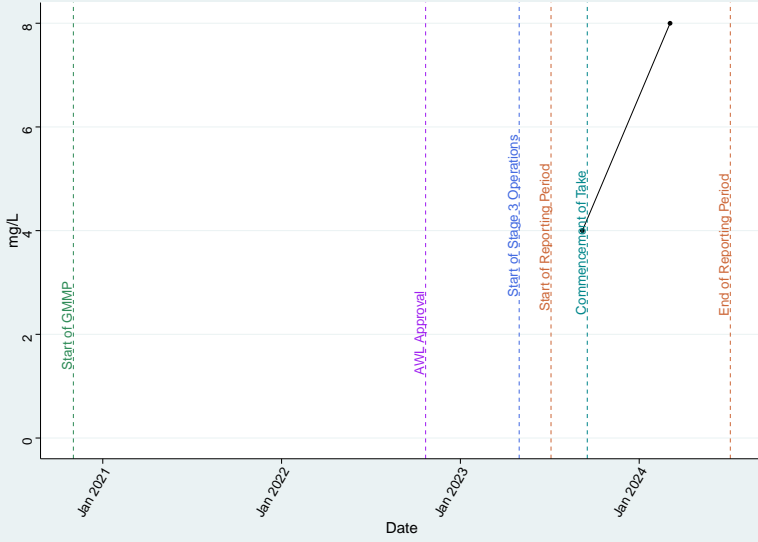
Bore BCS2 (Balgowan Coal Sequence) – K

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



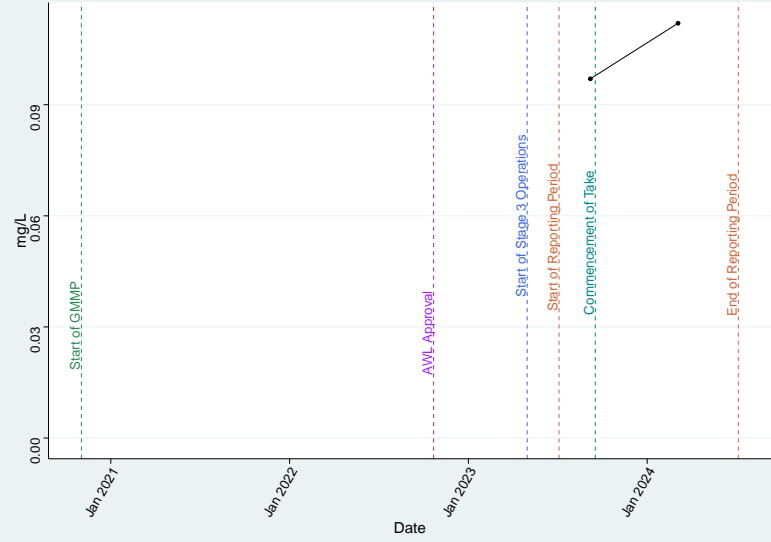
Bore BCS2 (Balgowan Coal Sequence) – Mg

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



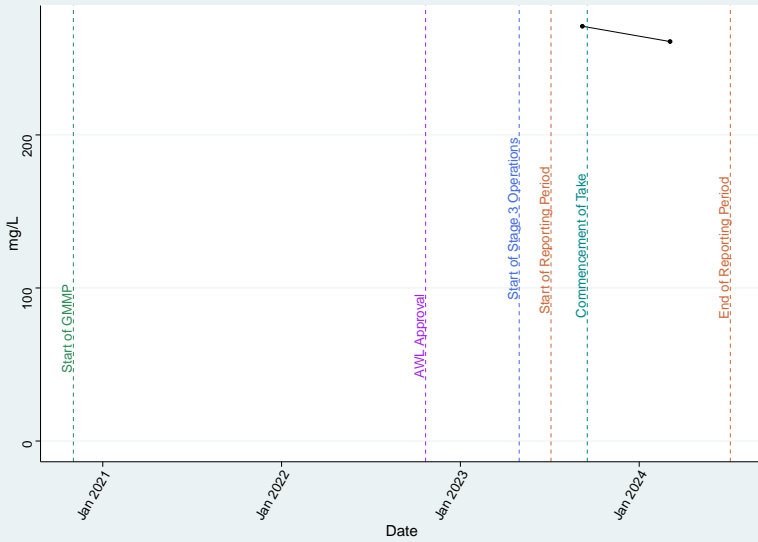
Bore BCS2 (Balgowan Coal Sequence) – Mn_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



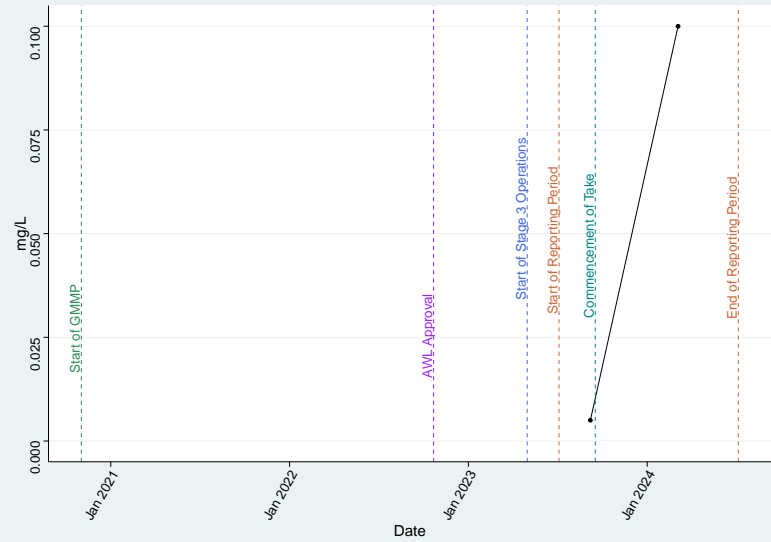
Bore BCS2 (Balgowan Coal Sequence) – Na

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



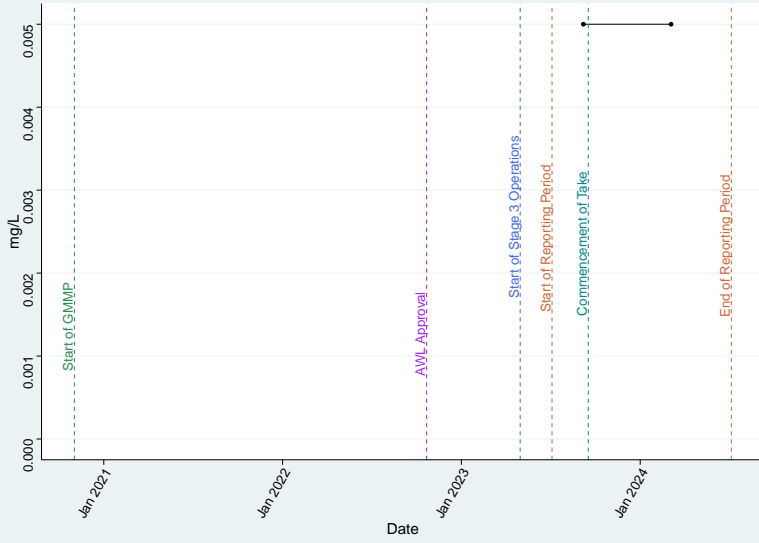
Bore BCS2 (Balgowan Coal Sequence) – Nitrate as N

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



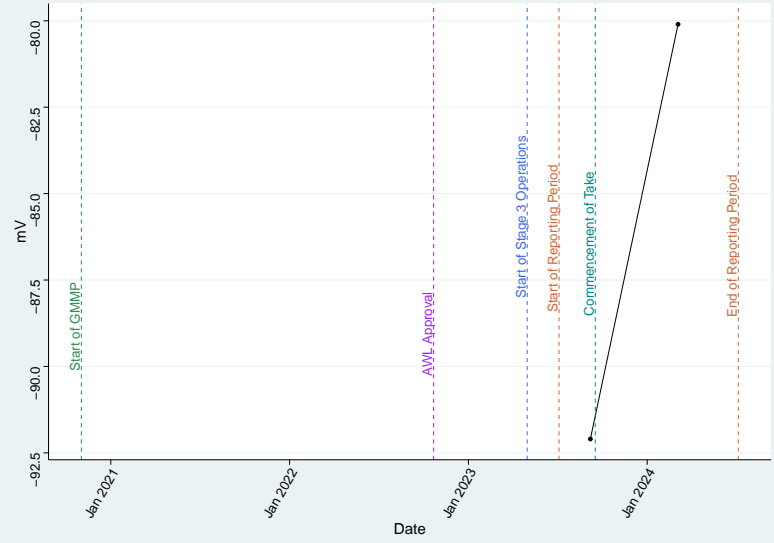
Bore BCS2 (Balgowan Coal Sequence) – Nitrite as N

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



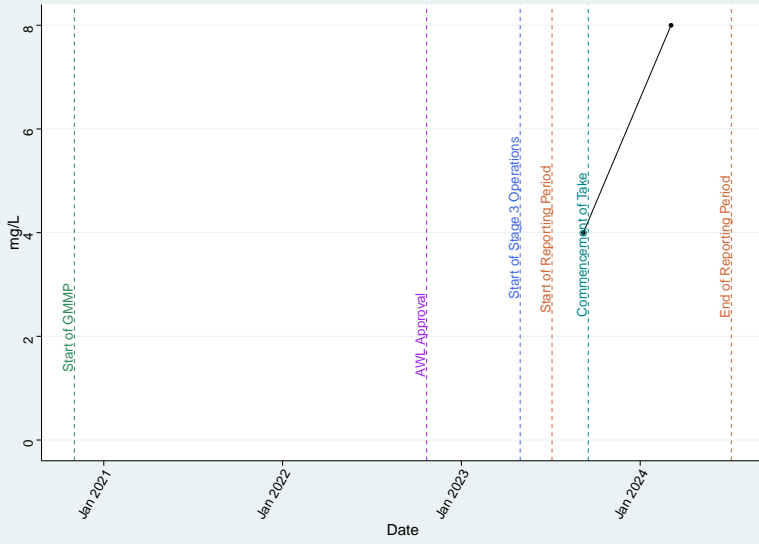
Bore BCS2 (Balgowan Coal Sequence) – Redox_Field

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



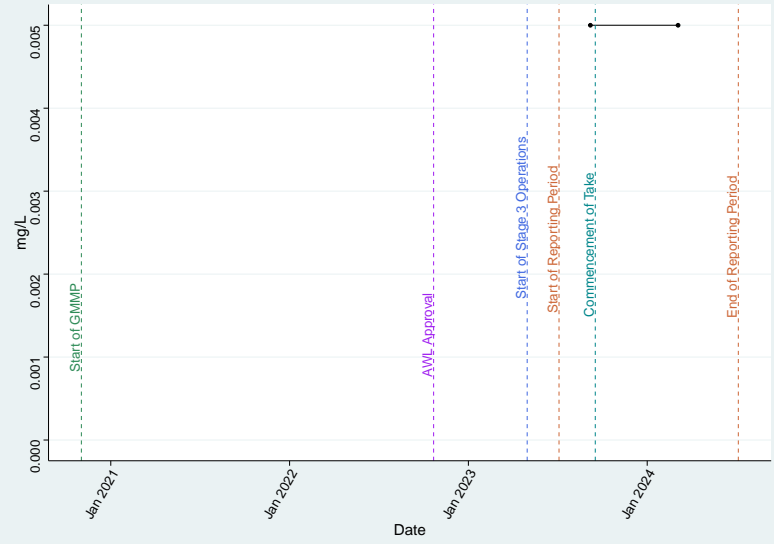
Bore BCS2 (Balgowan Coal Sequence) – SO4

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



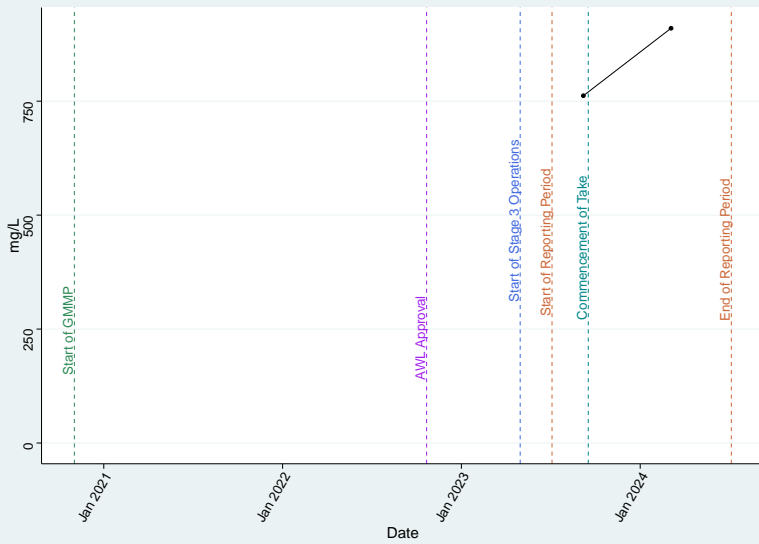
Bore BCS2 (Balgowan Coal Sequence) – Se_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



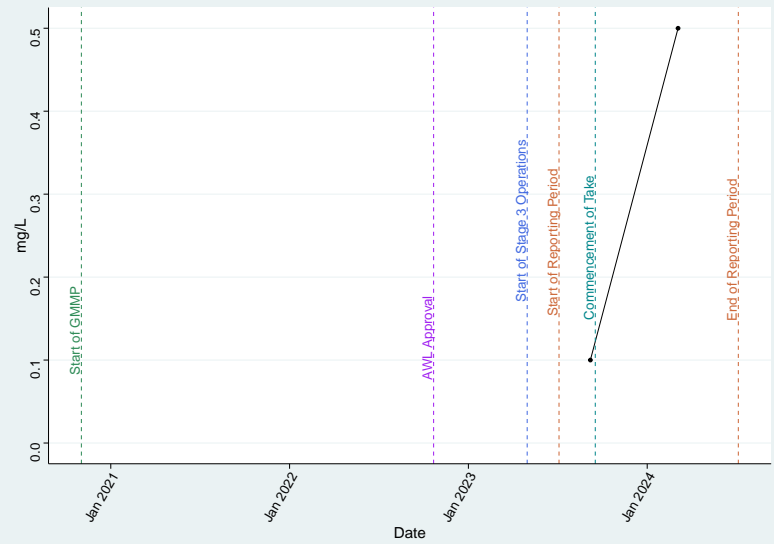
Bore BCS2 (Balgowan Coal Sequence) – TDS

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



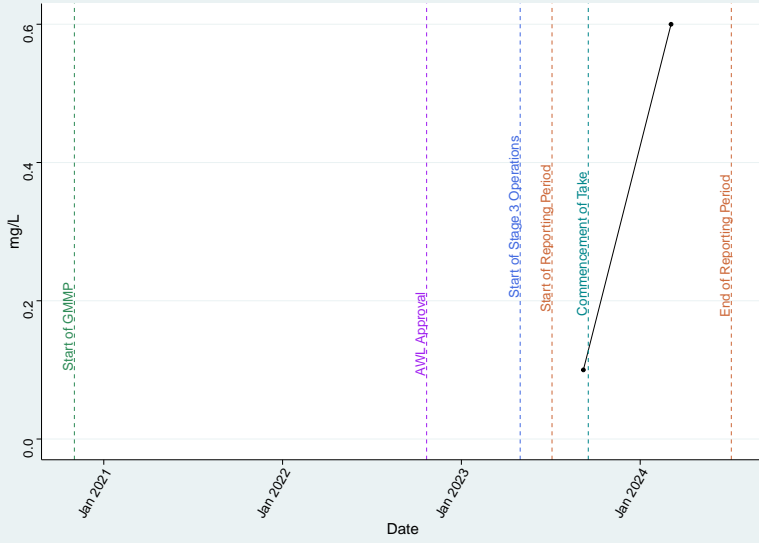
Bore BCS2 (Balgowan Coal Sequence) – TKN

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



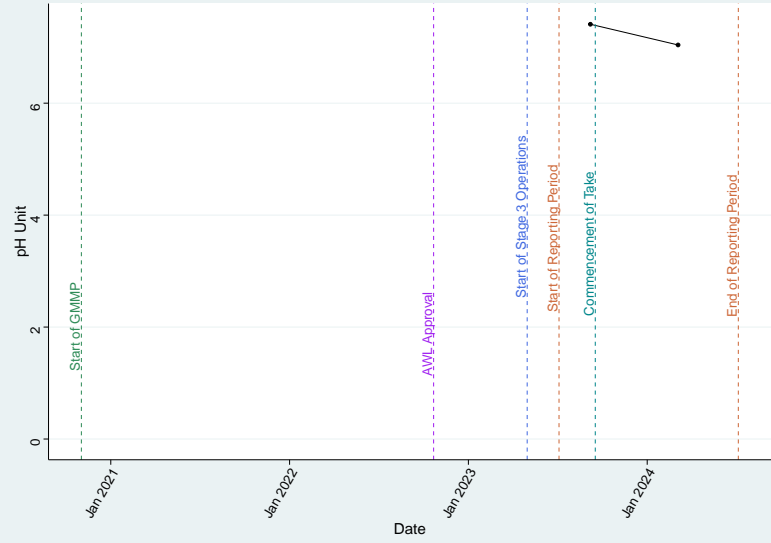
Bore BCS2 (Balgowan Coal Sequence) – Total_N

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



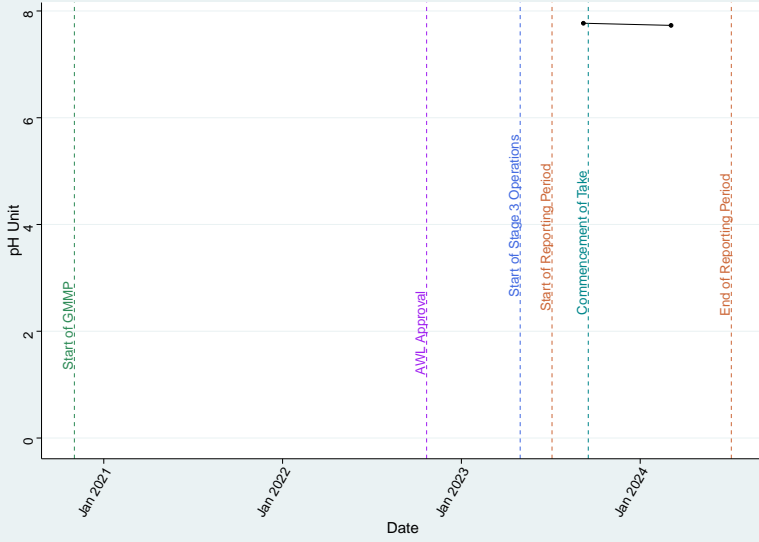
Bore BCS2 (Balgowan Coal Sequence) – pH_Field

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



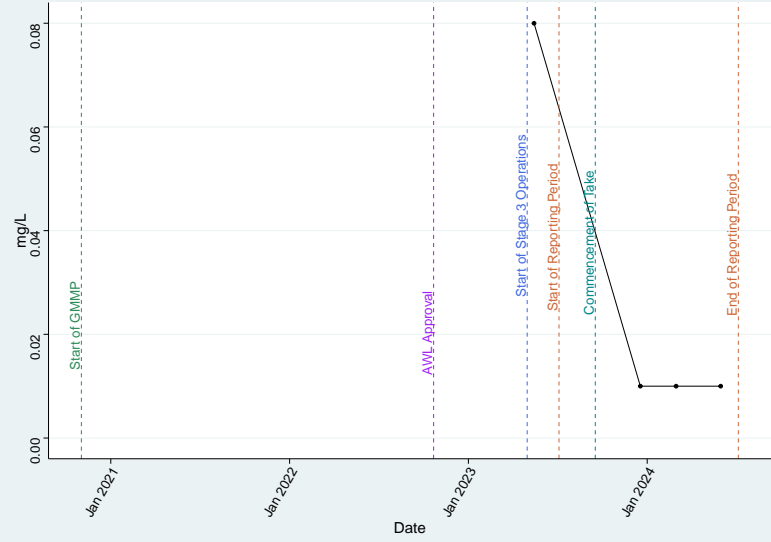
Bore BCS2 (Balgowan Coal Sequence) – pH_Lab

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



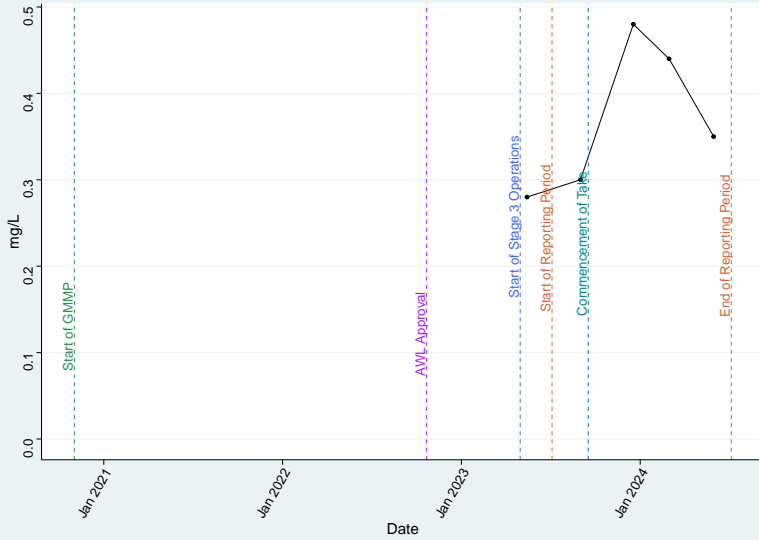
Bore BCS3 (Balgowan Coal Sequence) – Al_diss

Mann Kendall Trend Test | τ = -0.707 | p-value = 0.371 | No trend



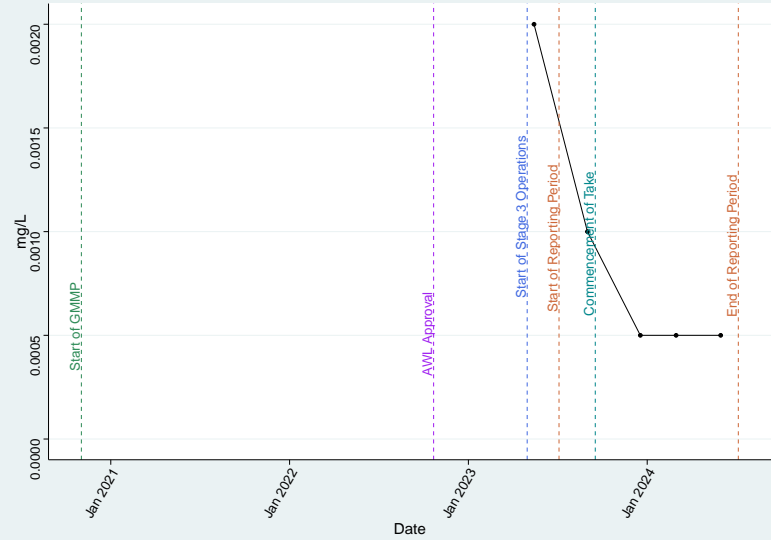
Bore BCS3 (Balgowan Coal Sequence) – Ammonia as N

Mann Kendall Trend Test | τ = 0.4 | p-value = 0.462 | No trend



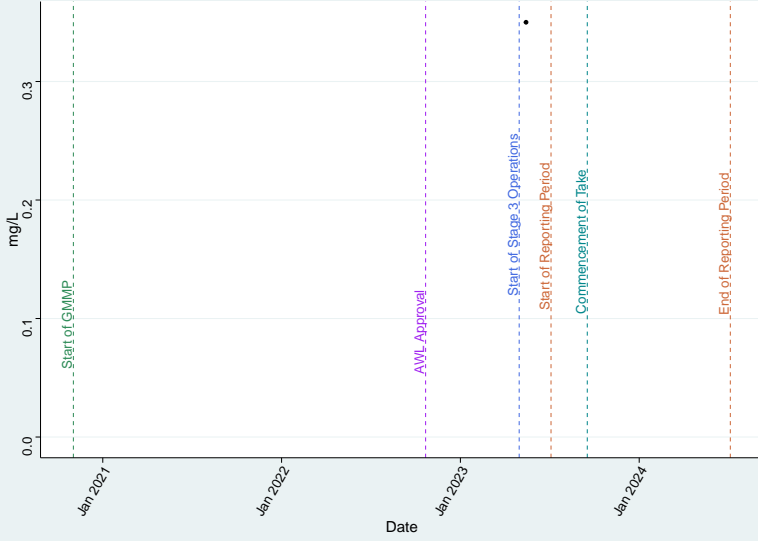
Bore BCS3 (Balgowan Coal Sequence) – As_diss

Mann Kendall Trend Test | τ = -0.837 | p-value = 0.0961 | No trend



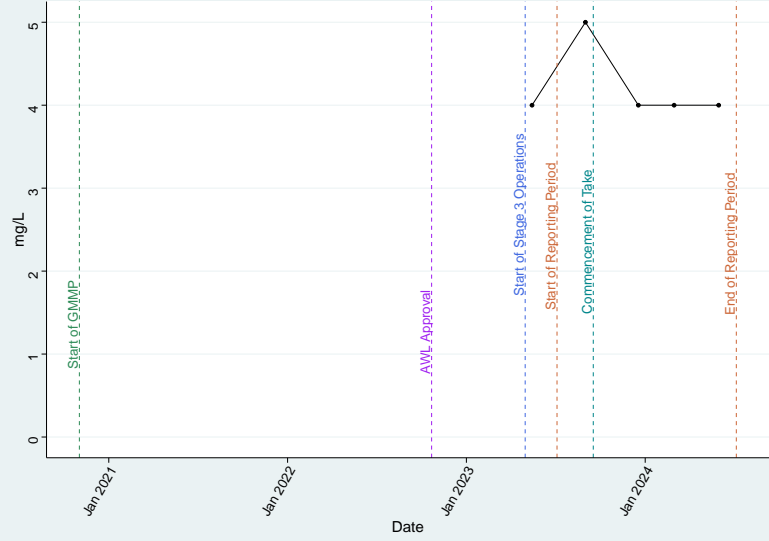
Bore BCS3 (Balgowan Coal Sequence) – Ba_{diss}

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



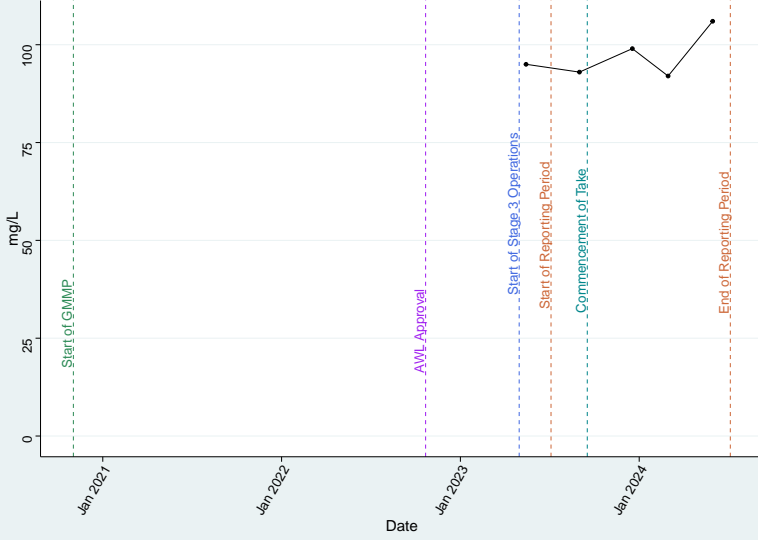
Bore BCS3 (Balgowan Coal Sequence) – Ca

Mann Kendall Trend Test | τ = -0.316 | p-value = 0.724 | No trend



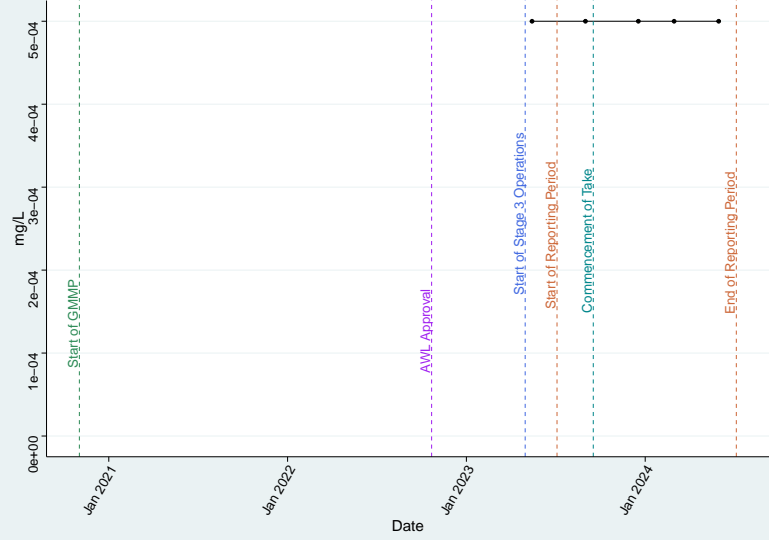
Bore BCS3 (Balgowan Coal Sequence) – Cl

Mann Kendall Trend Test | τ = 0.2 | p-value = 0.806 | No trend



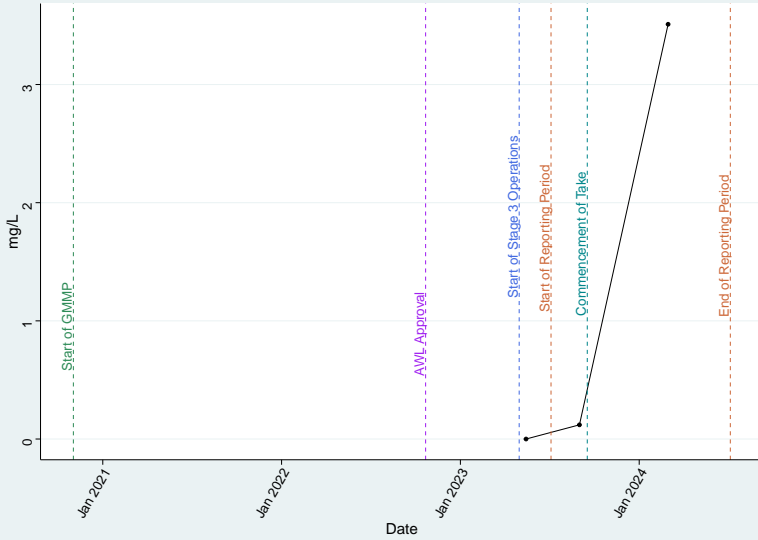
Bore BCS3 (Balgowan Coal Sequence) – Cu_{diss}

Mann Kendall Trend Test | τ = 1 | p-value = 1 | No trend



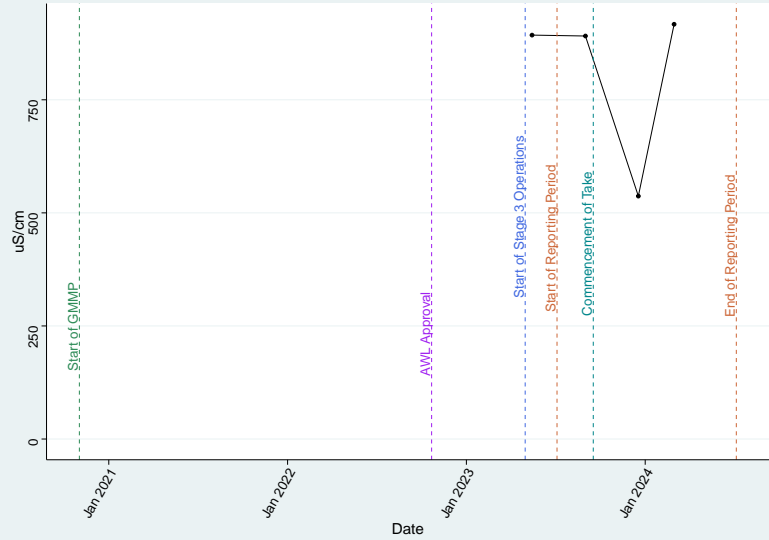
Bore BCS3 (Balgowan Coal Sequence) – DO_{Field}

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated

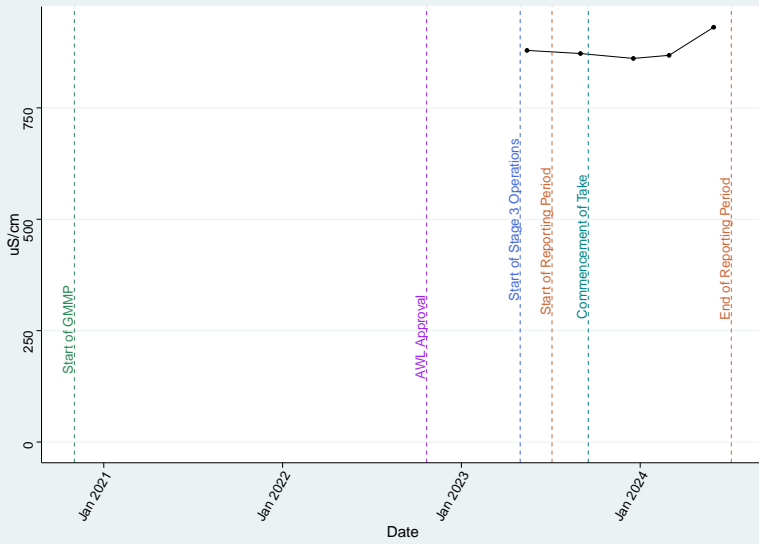


Bore BCS3 (Balgowan Coal Sequence) – EC_{Field}

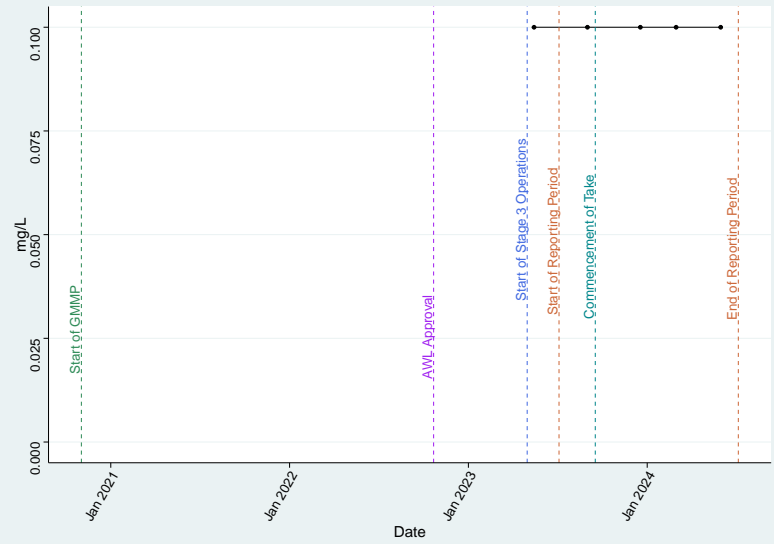
Mann Kendall Trend Test | τ = 0 | p-value = 1 | No trend



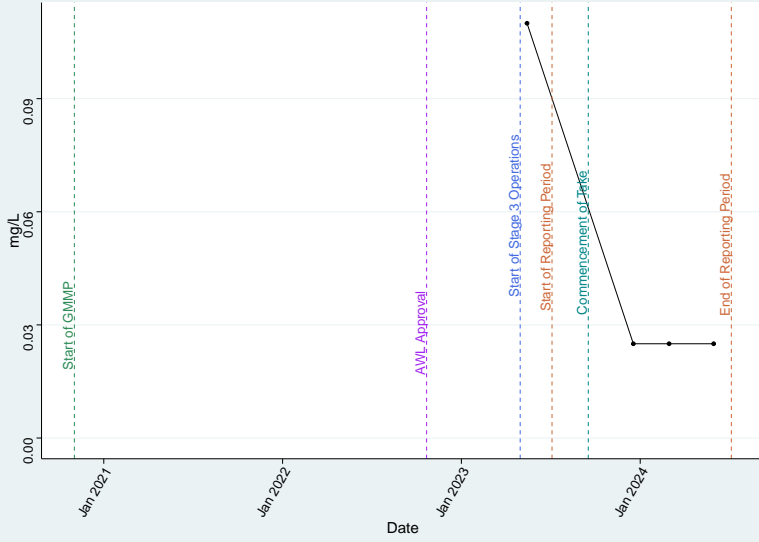
Bore BCS3 (Balgowan Coal Sequence) – EC_Lab
Mann Kendall Trend Test | $\tau = 0$ | $p\text{-value} = 1$ | No trend



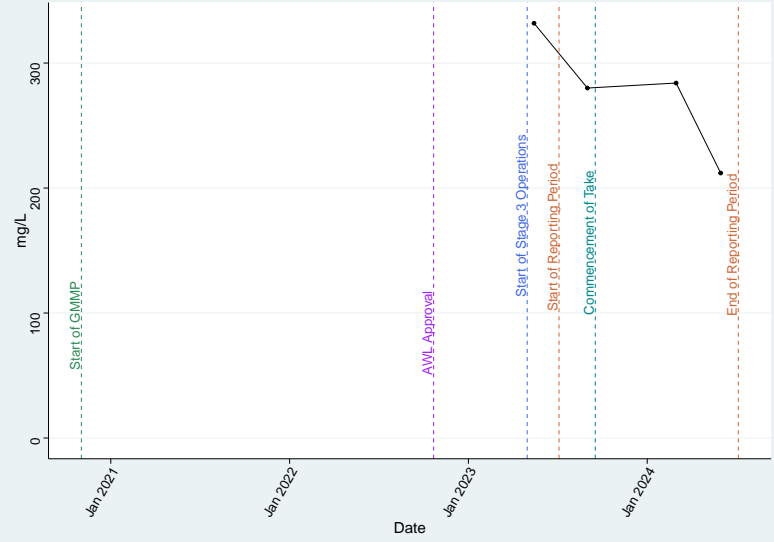
Bore BCS3 (Balgowan Coal Sequence) – F
Mann Kendall Trend Test | $\tau = 1$ | $p\text{-value} = 1$ | No trend



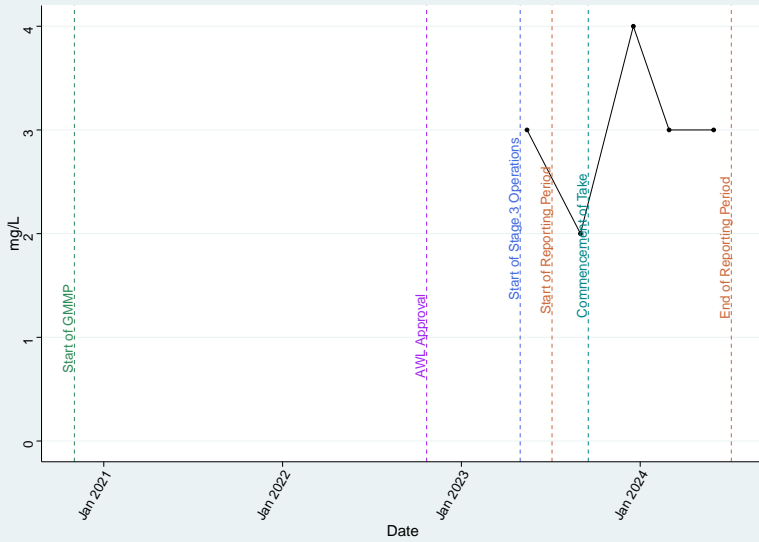
Bore BCS3 (Balgowan Coal Sequence) – Fe_diss
Mann Kendall Trend Test | $\tau = -0.707$ | $p\text{-value} = 0.371$ | No trend



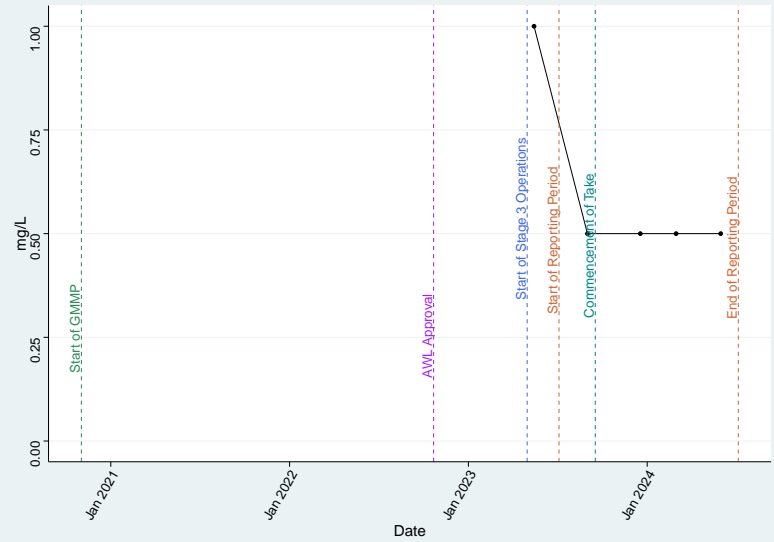
Bore BCS3 (Balgowan Coal Sequence) – HCO3
Mann Kendall Trend Test | $\tau = -0.667$ | $p\text{-value} = 0.308$ | No trend



Bore BCS3 (Balgowan Coal Sequence) – K
Mann Kendall Trend Test | $\tau = 0.12$ | $p\text{-value} = 1$ | No trend

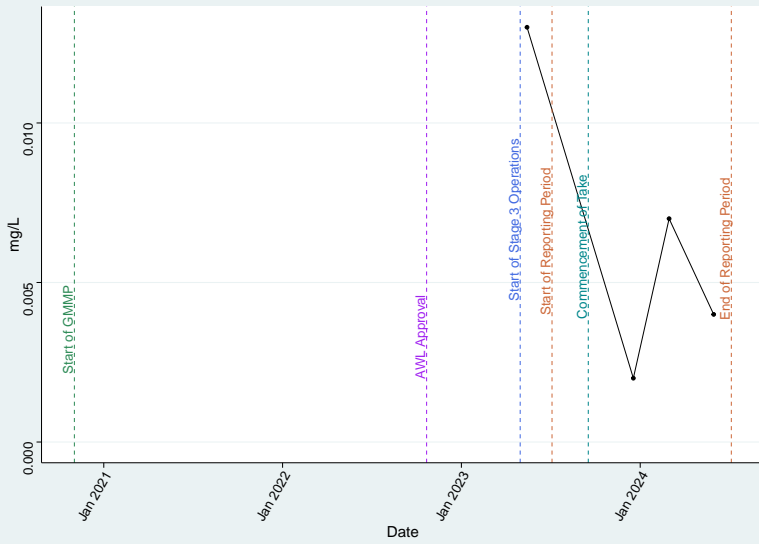


Bore BCS3 (Balgowan Coal Sequence) – Mg
Mann Kendall Trend Test | $\tau = -0.632$ | $p\text{-value} = 0.289$ | No trend



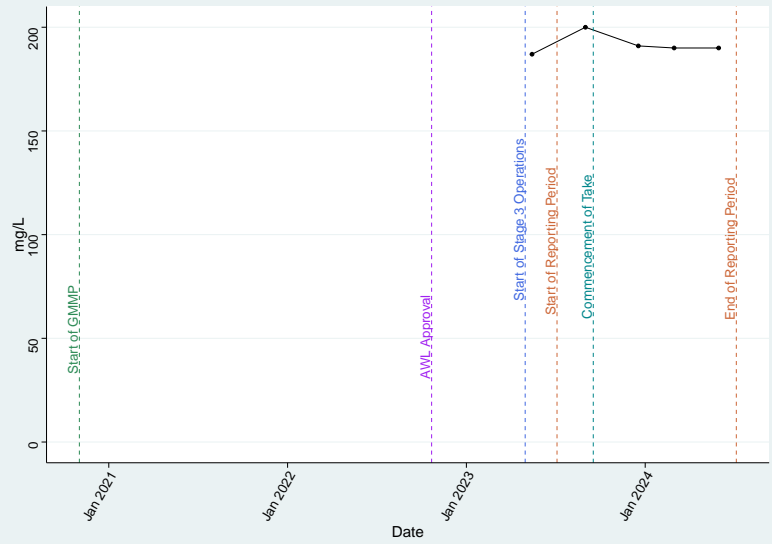
Bore BCS3 (Balgowan Coal Sequence) – Mn_diss

Mann Kendall Trend Test | $\tau = -0.333$ | $p\text{-value} = 0.734$ | No trend



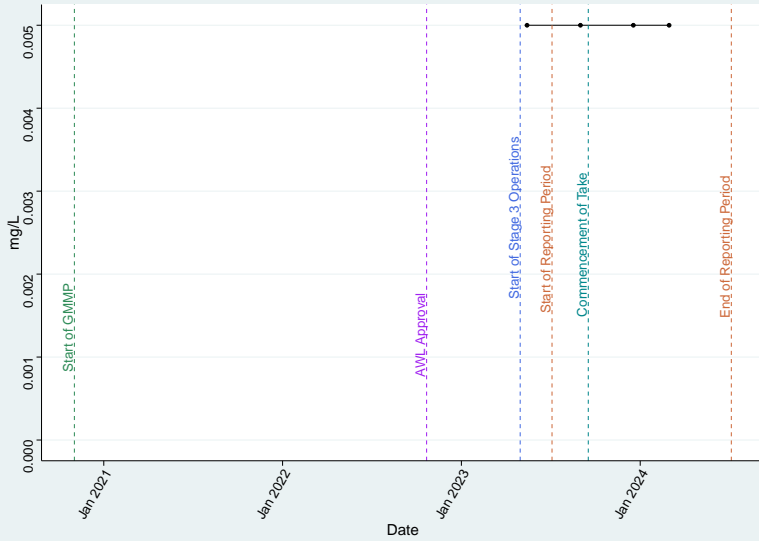
Bore BCS3 (Balgowan Coal Sequence) – Na

Mann Kendall Trend Test | $\tau = -0.105$ | $p\text{-value} = 1$ | No trend



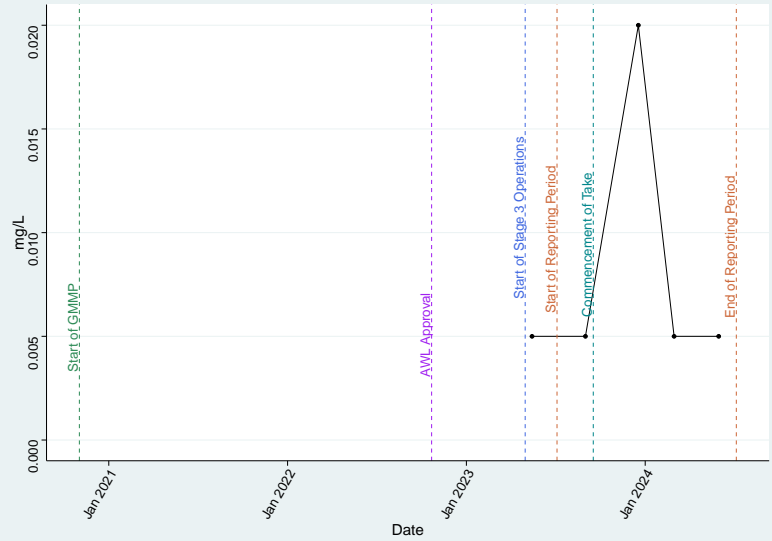
Bore BCS3 (Balgowan Coal Sequence) – Nitrate as N

Mann Kendall Trend Test | $\tau = 1$ | $p\text{-value} = 1$ | No trend



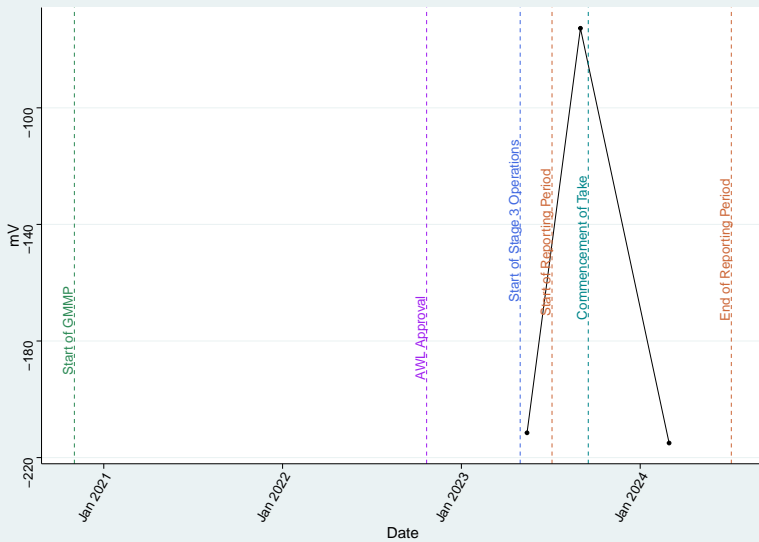
Bore BCS3 (Balgowan Coal Sequence) – Nitrite as N

Mann Kendall Trend Test | $\tau = 0$ | $p\text{-value} = 1$ | No trend



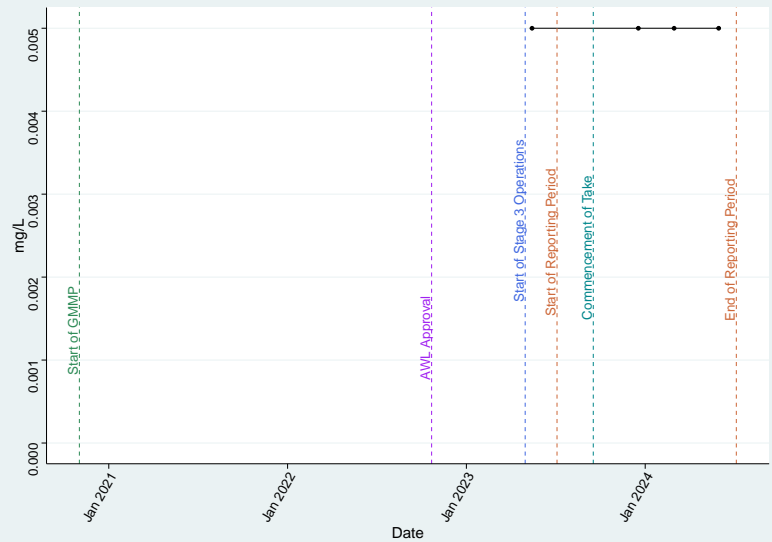
Bore BCS3 (Balgowan Coal Sequence) – Redox_Field

Mann Kendall Trend Test | $\tau =$ Not enough data | $p\text{-value} =$ Not enough data | Not evaluated



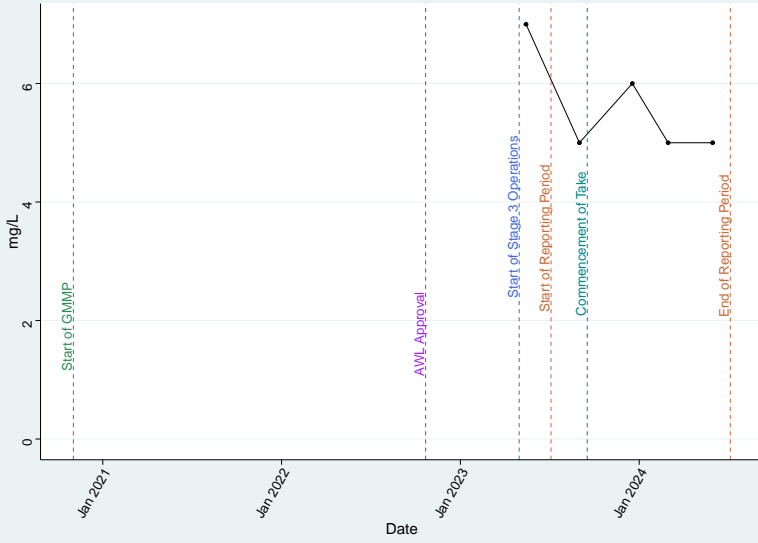
Bore BCS3 (Balgowan Coal Sequence) – Se_diss

Mann Kendall Trend Test | $\tau = 1$ | $p\text{-value} = 1$ | No trend



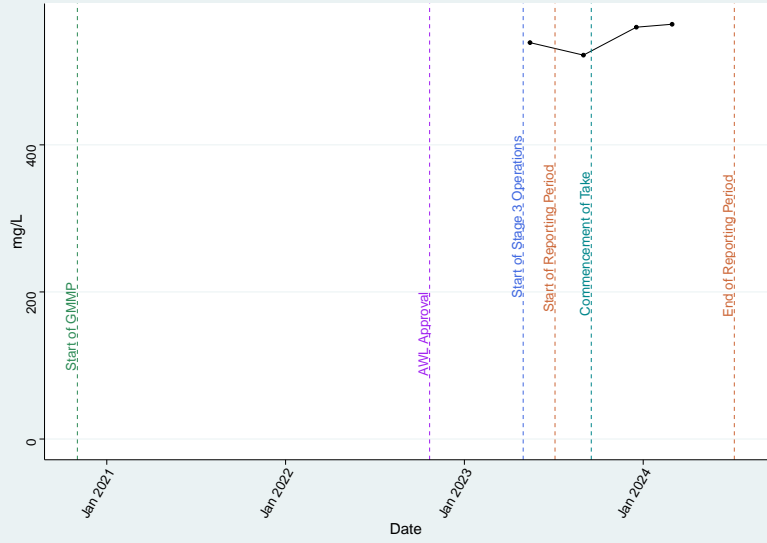
Bore BCS3 (Balgowan Coal Sequence) – SO4

Mann Kendall Trend Test | $\tau = -0.598$ | $p\text{-value} = 0.267$ | No trend



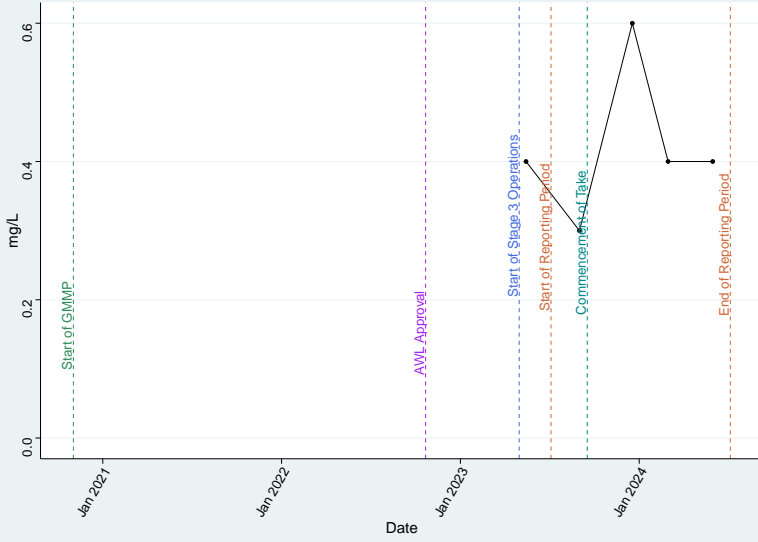
Bore BCS3 (Balgowan Coal Sequence) – TDS

Mann Kendall Trend Test | $\tau = 0.667$ | $p\text{-value} = 0.308$ | No trend



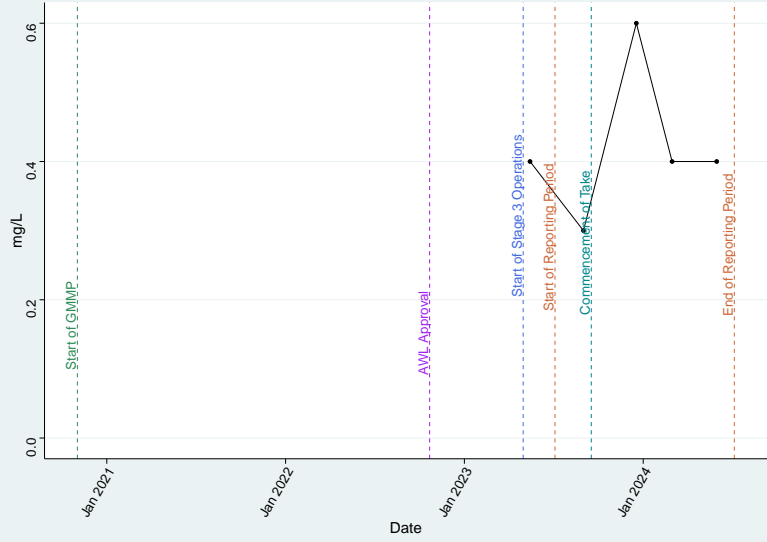
Bore BCS3 (Balgowan Coal Sequence) – TKN

Mann Kendall Trend Test | $\tau = 0.12$ | $p\text{-value} = 1$ | No trend



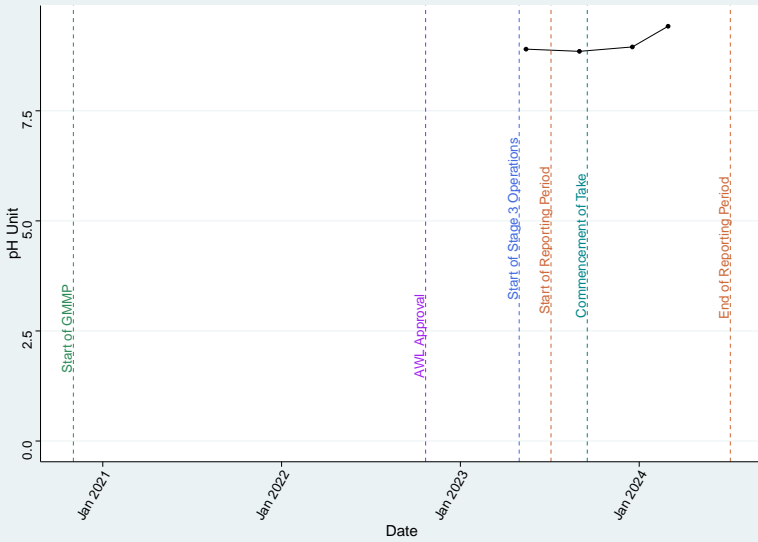
Bore BCS3 (Balgowan Coal Sequence) – Total_N

Mann Kendall Trend Test | $\tau = 0.12$ | $p\text{-value} = 1$ | No trend



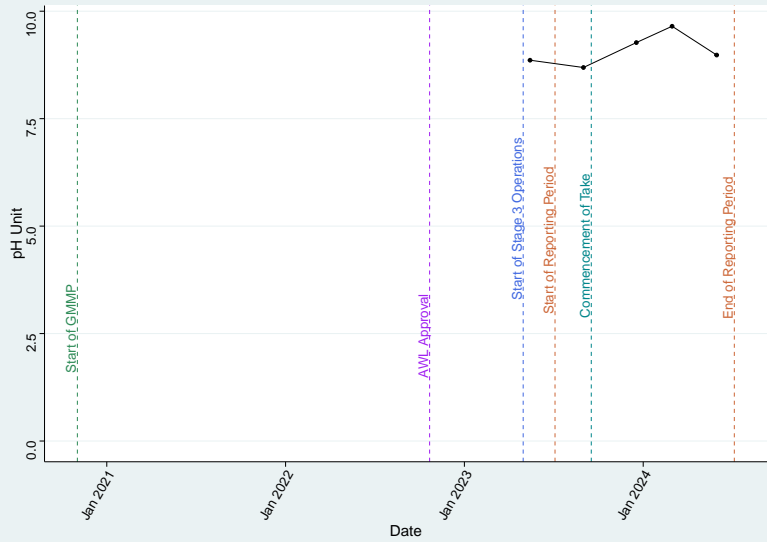
Bore BCS3 (Balgowan Coal Sequence) – pH_Field

Mann Kendall Trend Test | $\tau = 0.667$ | $p\text{-value} = 0.308$ | No trend



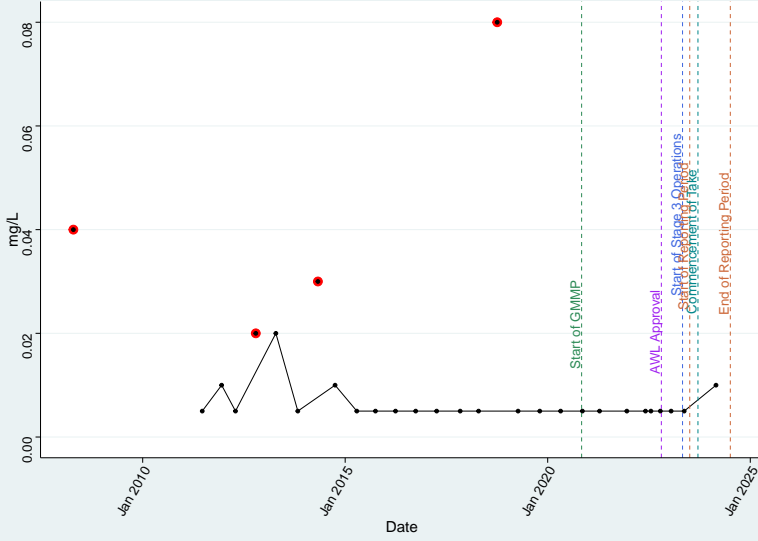
Bore BCS3 (Balgowan Coal Sequence) – pH_Lab

Mann Kendall Trend Test | $\tau = 0.4$ | $p\text{-value} = 0.462$ | No trend



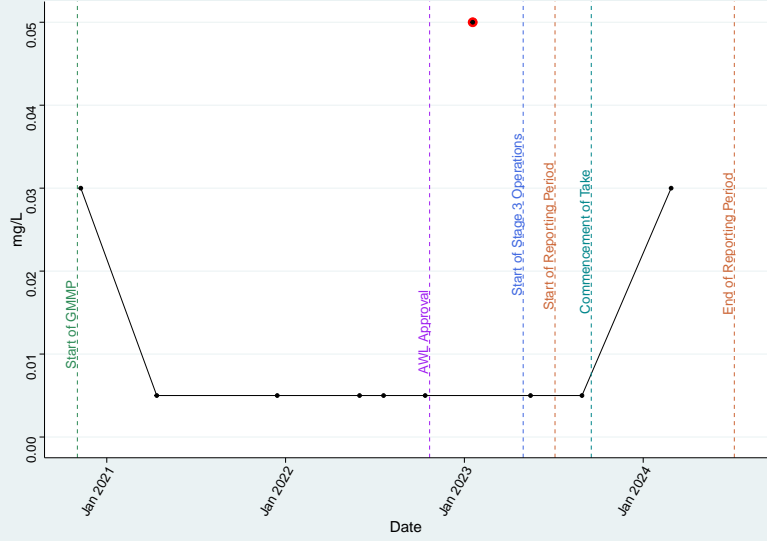
Bore BMH1 (Main Range Volcanics) – Al_diss

Mann Kendall Trend Test | $\tau = -0.308$ | p-value = 0.0416 | Negative trend



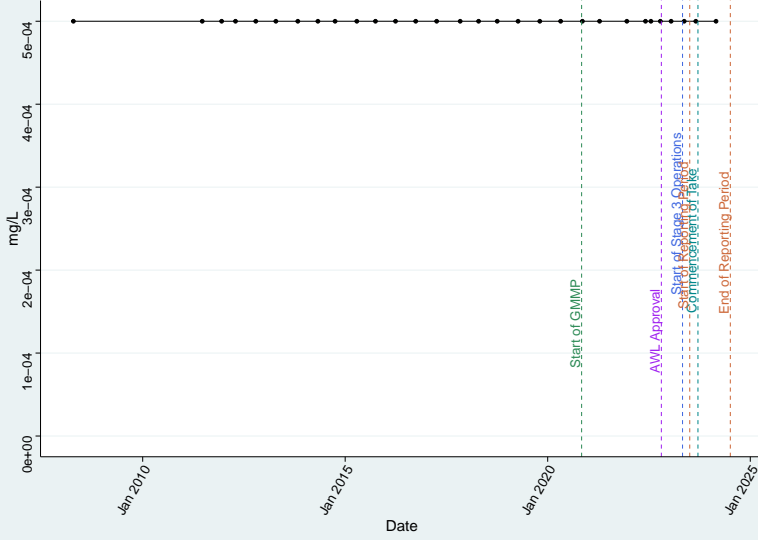
Bore BMH1 (Main Range Volcanics) – Ammonia as N

Mann Kendall Trend Test | $\tau = 0.0933$ | p-value = 0.823 | No trend



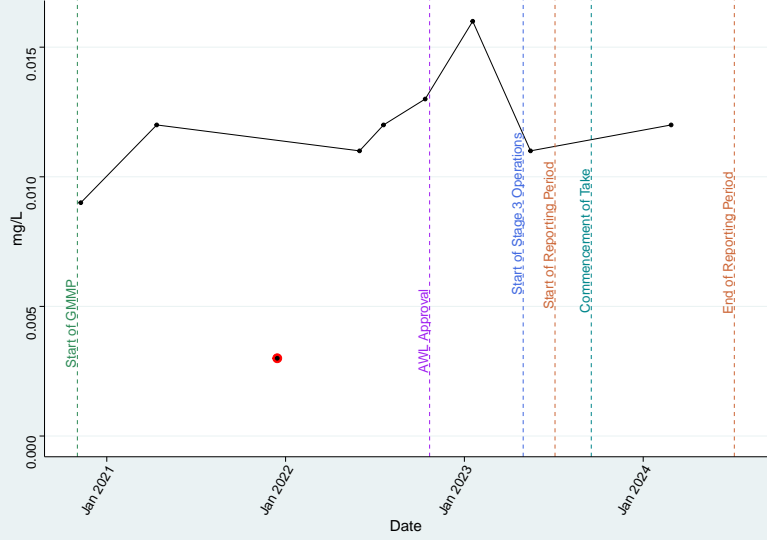
Bore BMH1 (Main Range Volcanics) – As_diss

Mann Kendall Trend Test | $\tau = 1$ | p-value = 1 | No trend



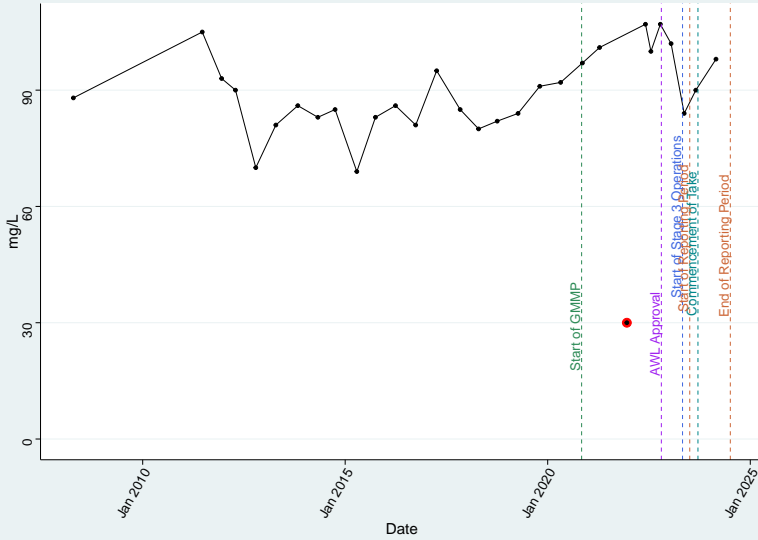
Bore BMH1 (Main Range Volcanics) – Ba_diss

Mann Kendall Trend Test | $\tau = 0.412$ | p-value = 0.164 | No trend



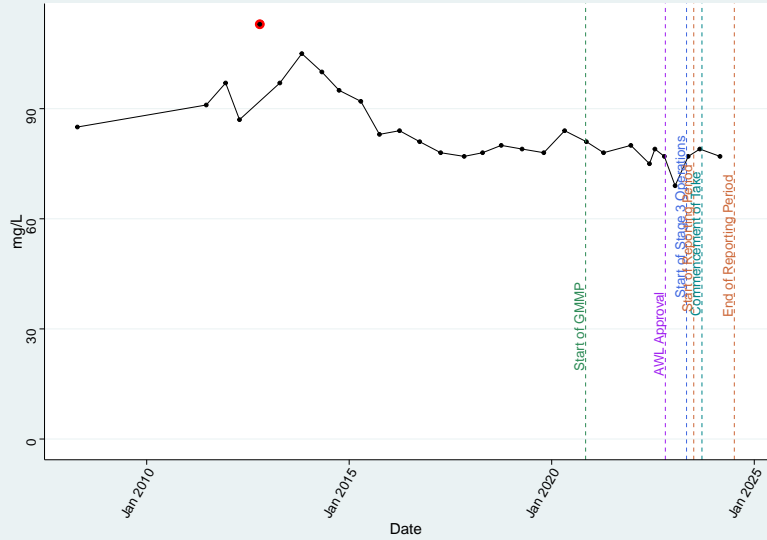
Bore BMH1 (Main Range Volcanics) – Ca

Mann Kendall Trend Test | $\tau = 0.232$ | p-value = 0.077 | No trend



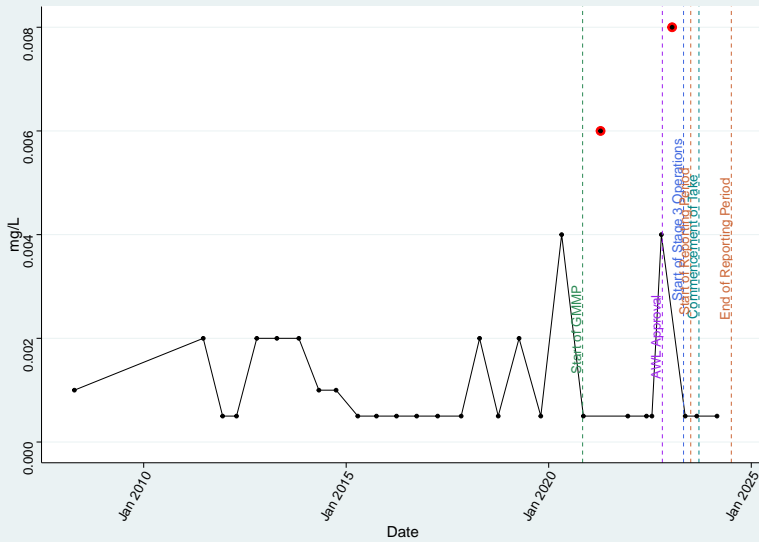
Bore BMH1 (Main Range Volcanics) – Cl

Mann Kendall Trend Test | $\tau = -0.616$ | p-value = 0.00000294 | Negative trend



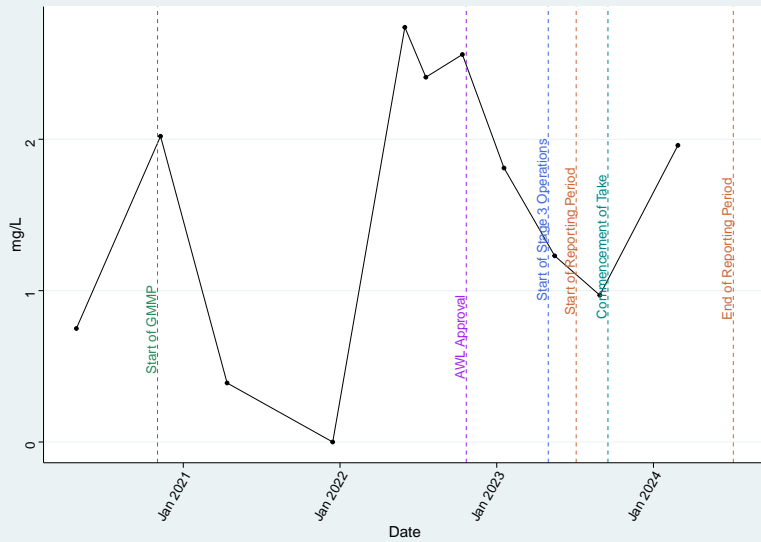
Bore BMH1 (Main Range Volcanics) – Cu_diss

Mann Kendall Trend Test | $\tau = -0.0802$ | $p\text{-value} = 0.591$ | No trend



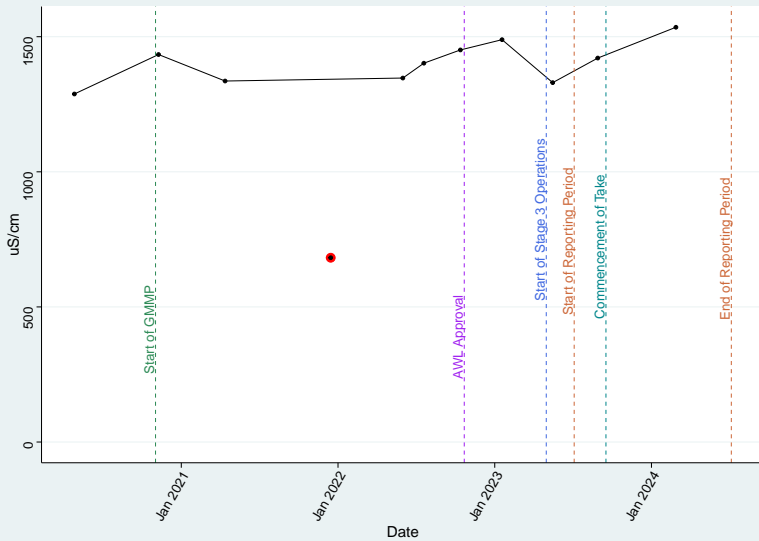
Bore BMH1 (Main Range Volcanics) – DO_Field

Mann Kendall Trend Test | $\tau = 0.0545$ | $p\text{-value} = 0.876$ | No trend



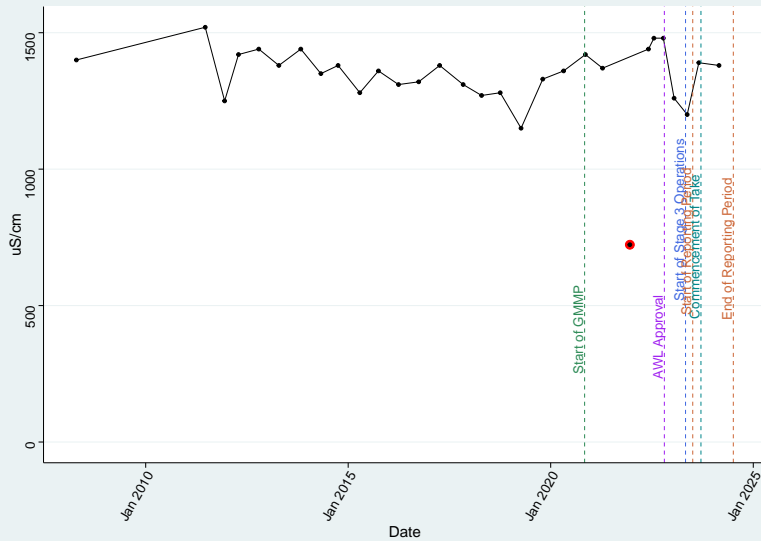
Bore BMH1 (Main Range Volcanics) – EC_Field

Mann Kendall Trend Test | $\tau = 0.455$ | $p\text{-value} = 0.0617$ | No trend



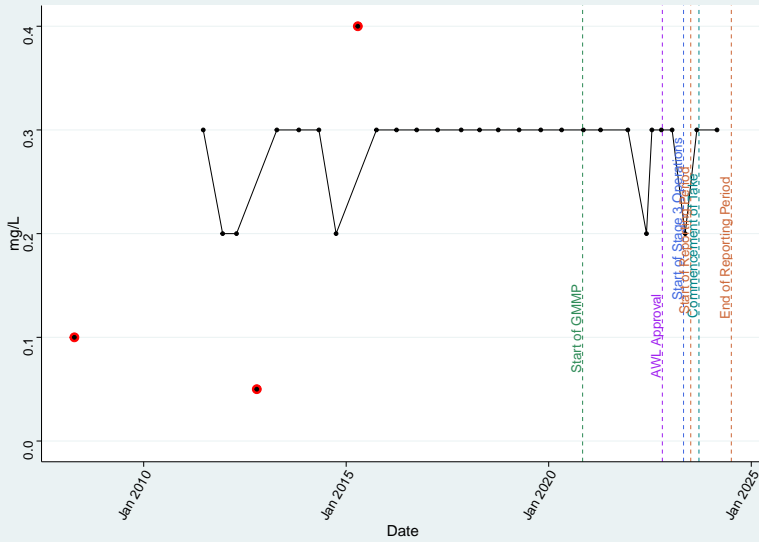
Bore BMH1 (Main Range Volcanics) – EC_Lab

Mann Kendall Trend Test | $\tau = -0.115$ | $p\text{-value} = 0.39$ | No trend



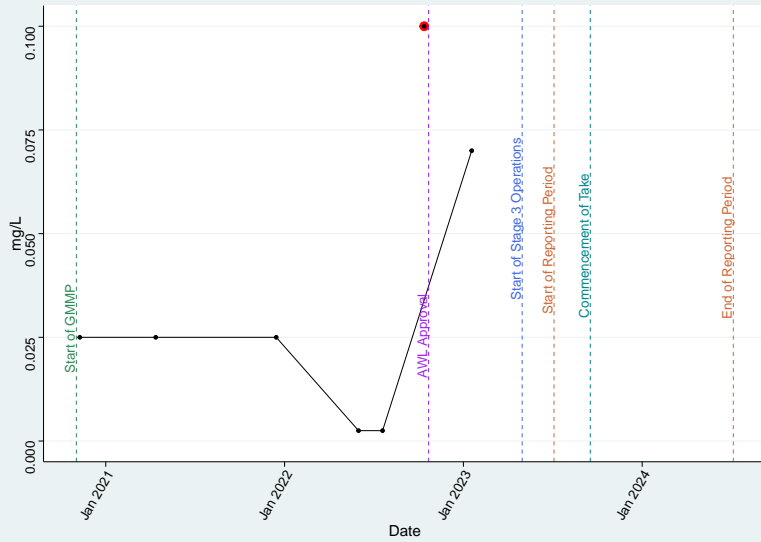
Bore BMH1 (Main Range Volcanics) – F

Mann Kendall Trend Test | $\tau = 0.207$ | $p\text{-value} = 0.172$ | No trend



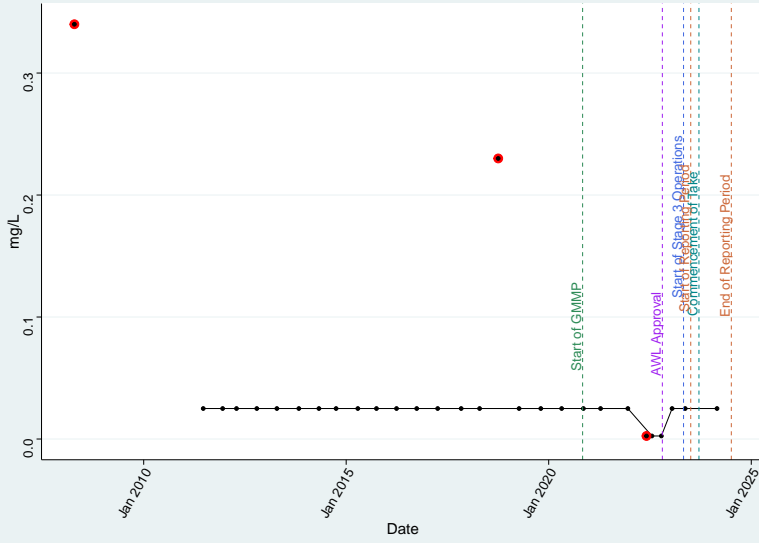
Bore BMH1 (Main Range Volcanics) – Fe2

Mann Kendall Trend Test | $\tau = 0.159$ | $p\text{-value} = 0.751$ | No trend



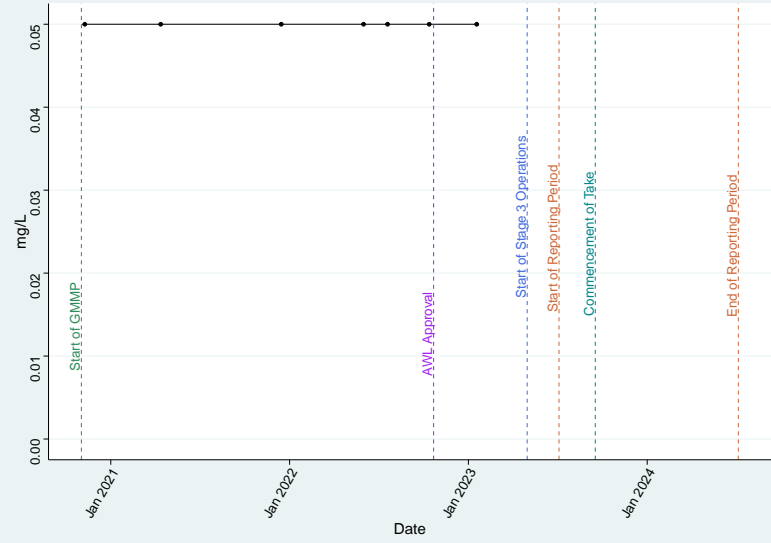
Bore BMH1 (Main Range Volcanics) – Fe_diss

Mann Kendall Trend Test | $\tau = -0.348$ | $p\text{-value} = 0.0251$ | Negative trend



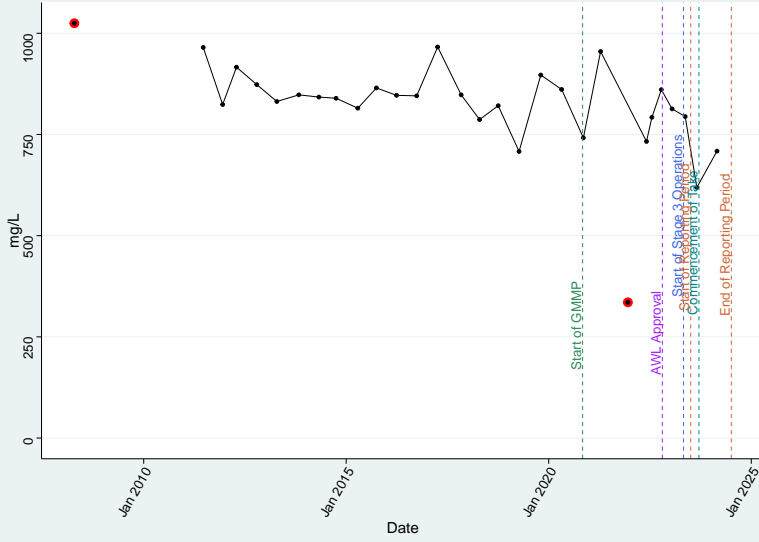
Bore BMH1 (Main Range Volcanics) – H2S

Mann Kendall Trend Test | $\tau = 1$ | $p\text{-value} = 1$ | No trend



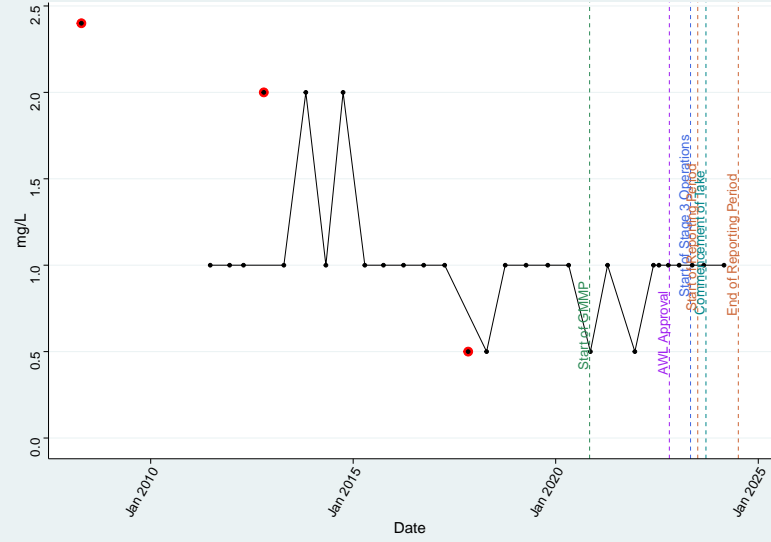
Bore BMH1 (Main Range Volcanics) – HCO3

Mann Kendall Trend Test | $\tau = -0.402$ | $p\text{-value} = 0.00191$ | Negative trend



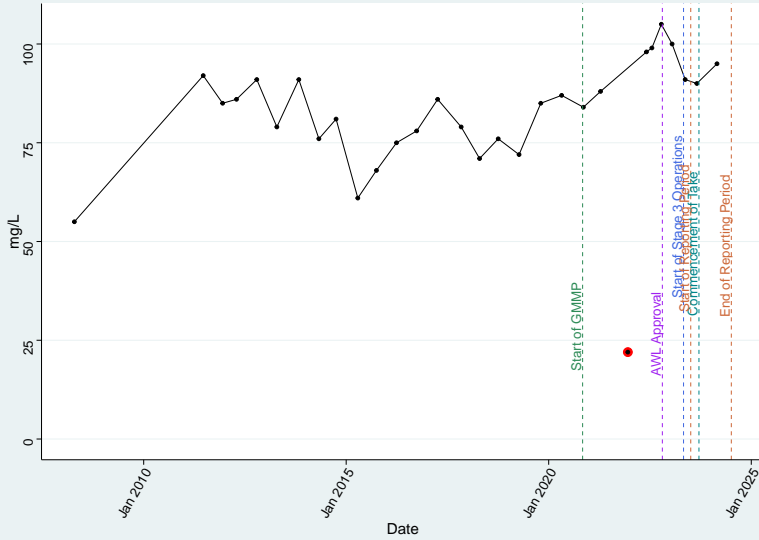
Bore BMH1 (Main Range Volcanics) – K

Mann Kendall Trend Test | $\tau = -0.319$ | $p\text{-value} = 0.0335$ | Negative trend



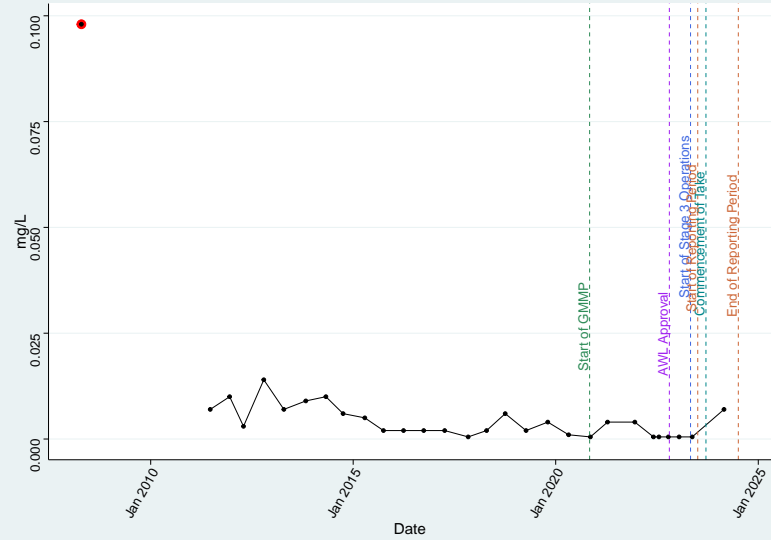
Bore BMH1 (Main Range Volcanics) – Mg

Mann Kendall Trend Test | $\tau = 0.278$ | $p\text{-value} = 0.0335$ | Positive trend



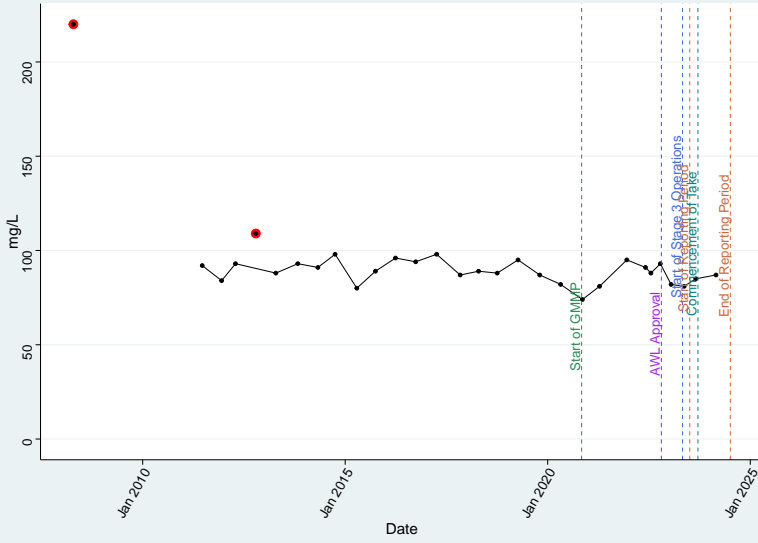
Bore BMH1 (Main Range Volcanics) – Mn_diss

Mann Kendall Trend Test | $\tau = -0.558$ | $p\text{-value} = 0.0000503$ | Negative trend



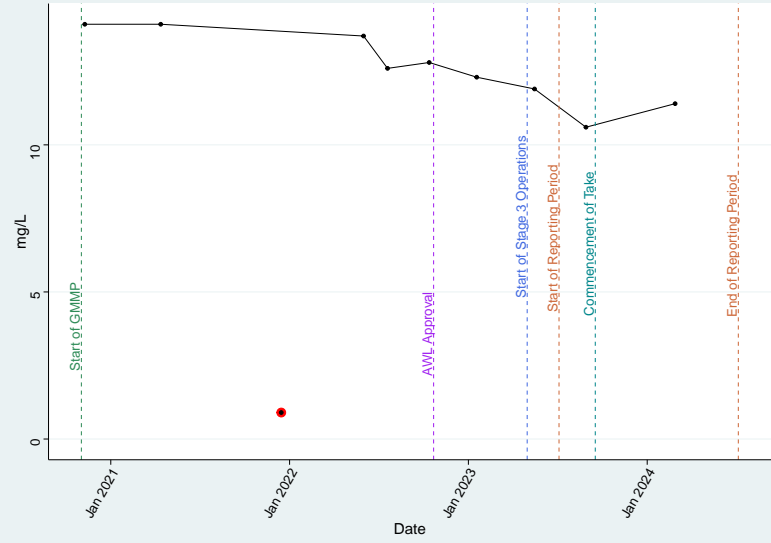
Bore BMH1 (Main Range Volcanics) – Na

Mann Kendall Trend Test | $\tau = -0.323$ | $p\text{-value} = 0.0143$ | Negative trend



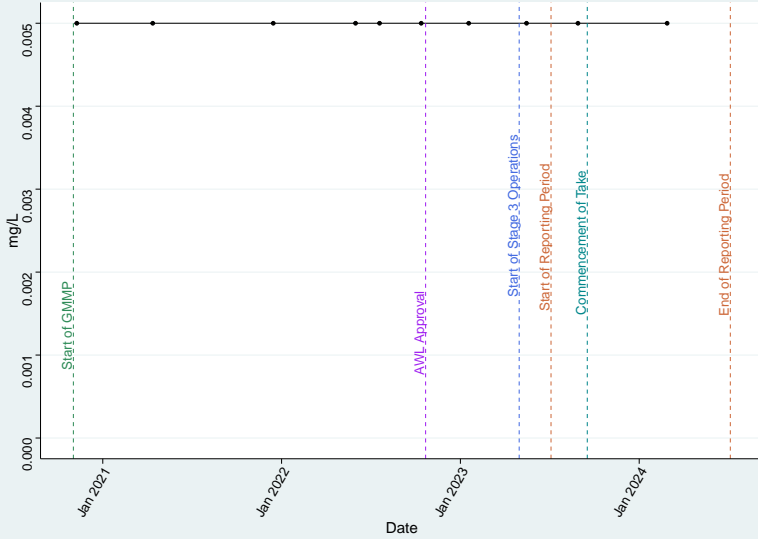
Bore BMH1 (Main Range Volcanics) – Nitrate as N

Mann Kendall Trend Test | $\tau = -0.584$ | $p\text{-value} = 0.0248$ | Negative trend



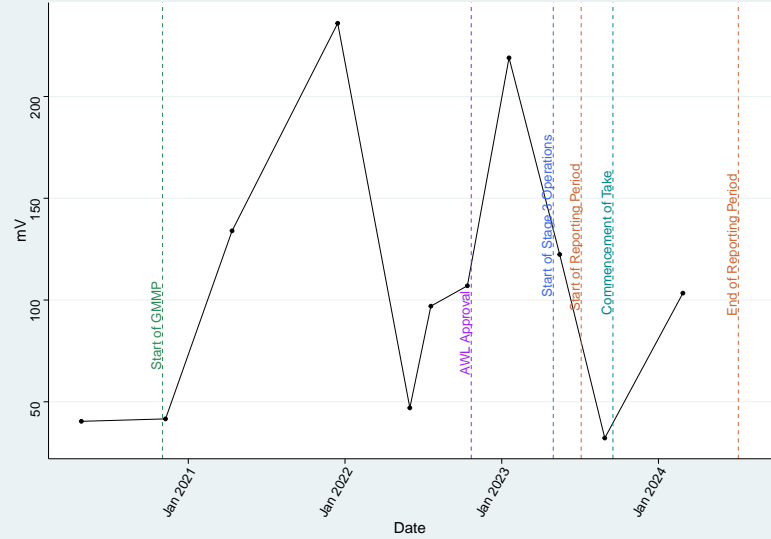
Bore BMH1 (Main Range Volcanics) – Nitrite as N

Mann Kendall Trend Test | $\tau = 1$ | $p\text{-value} = 1$ | No trend



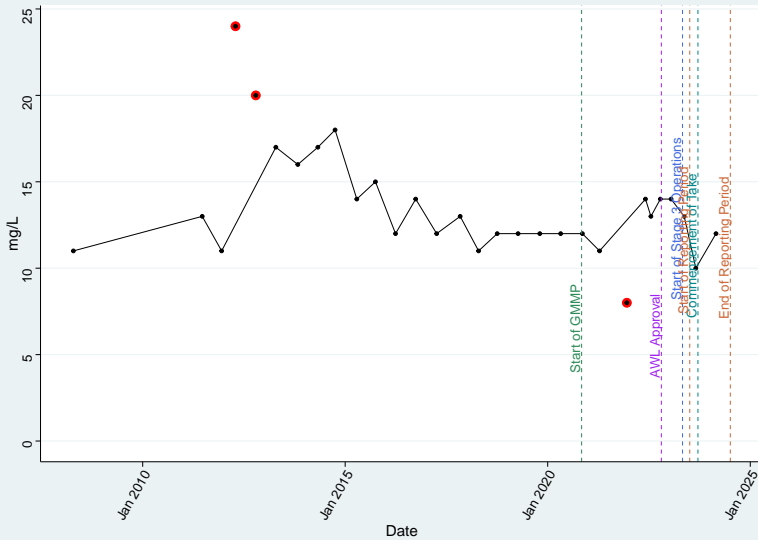
Bore BMH1 (Main Range Volcanics) – Redox_Field

Mann Kendall Trend Test | $\tau = 0.127$ | $p\text{-value} = 0.64$ | No trend



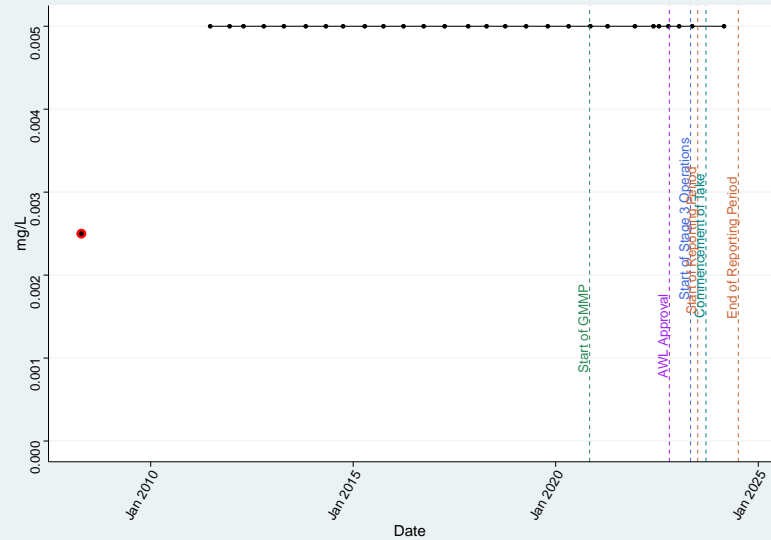
Bore BMH1 (Main Range Volcanics) – SO4

Mann Kendall Trend Test | $\tau = -0.294$ | $p\text{-value} = 0.0309$ | Negative trend



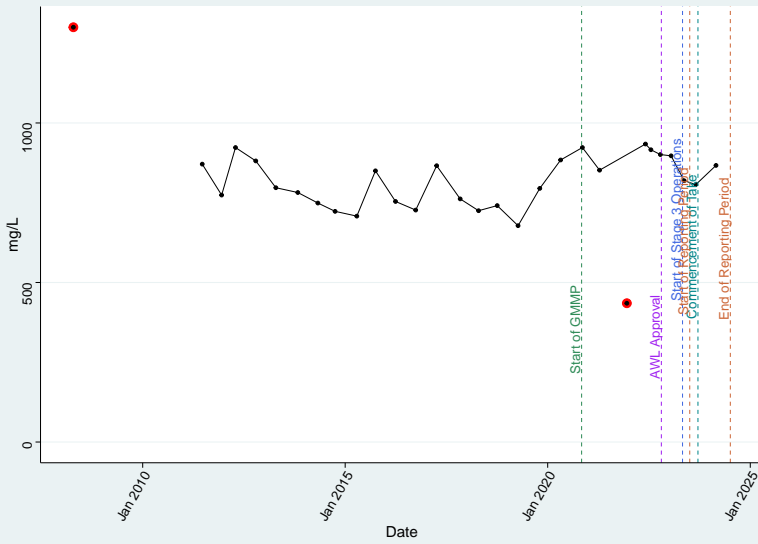
Bore BMH1 (Main Range Volcanics) – Se_diss

Mann Kendall Trend Test | $\tau = 0.263$ | $p\text{-value} = 0.107$ | No trend



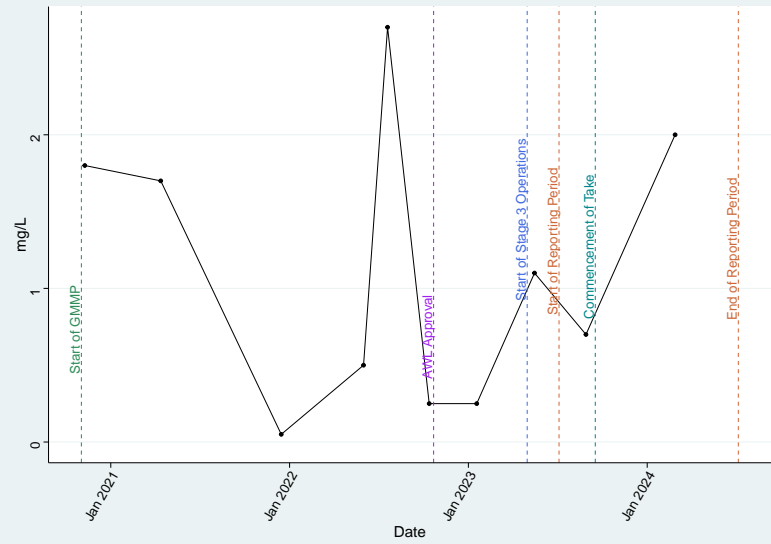
Bore BMH1 (Main Range Volcanics) – TDS

Mann Kendall Trend Test | $\tau = 0.0414$ | $p\text{-value} = 0.762$ | No trend



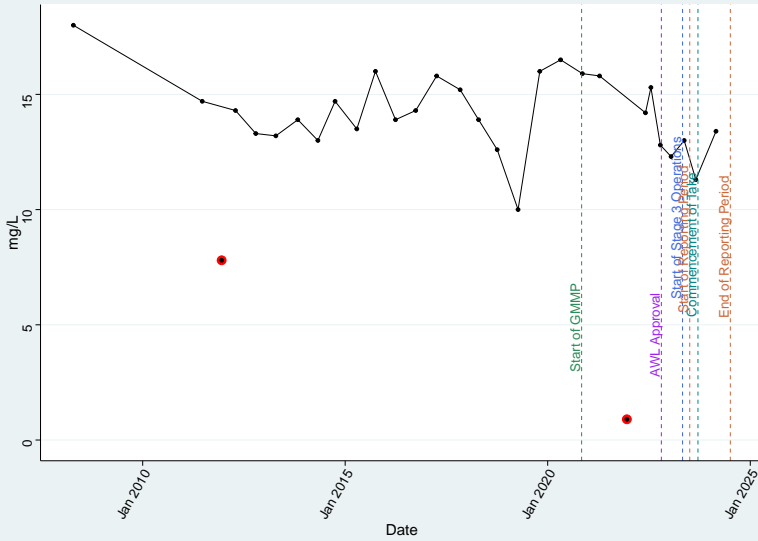
Bore BMH1 (Main Range Volcanics) – TKN

Mann Kendall Trend Test | $\tau = 0.0449$ | $p\text{-value} = 0.928$ | No trend



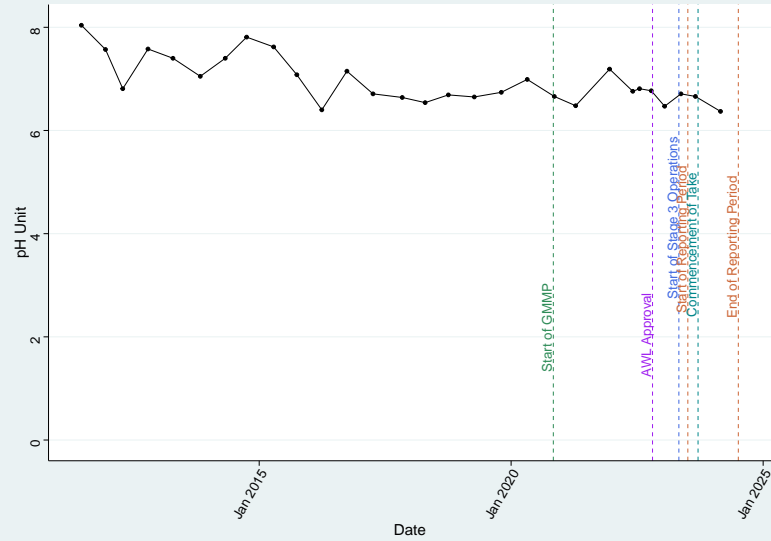
Bore BMH1 (Main Range Volcanics) – Total_N

Mann Kendall Trend Test | $\tau = -0.123$ | $p\text{-value} = 0.353$ | No trend



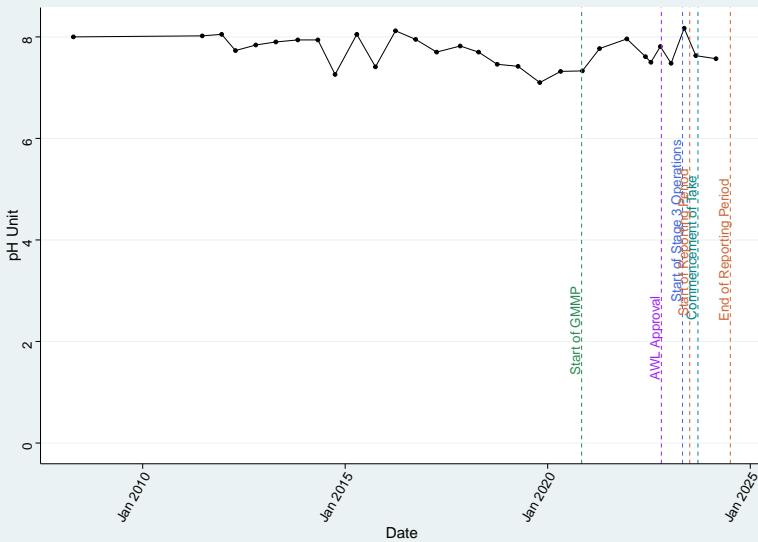
Bore BMH1 (Main Range Volcanics) – pH_Field

Mann Kendall Trend Test | $\tau = -0.451$ | $p\text{-value} = 0.00068$ | Negative trend



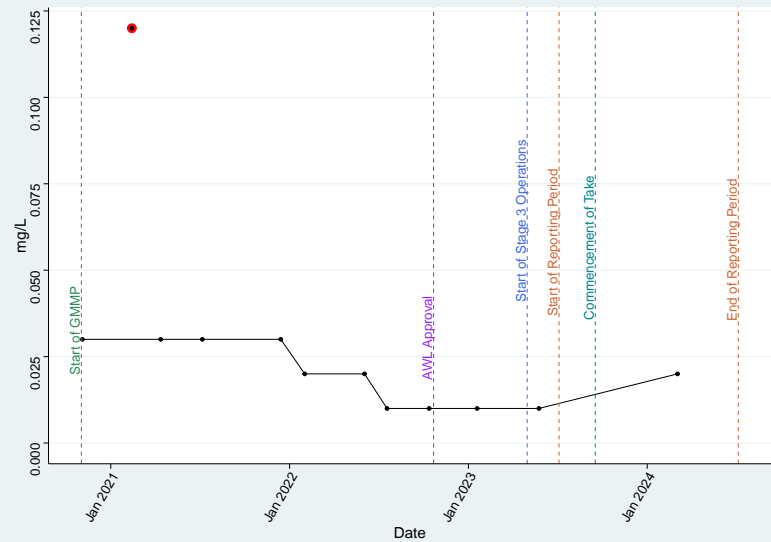
Bore BMH1 (Main Range Volcanics) – pH_Lab

Mann Kendall Trend Test | $\tau = -0.245$ | $p\text{-value} = 0.0609$ | No trend



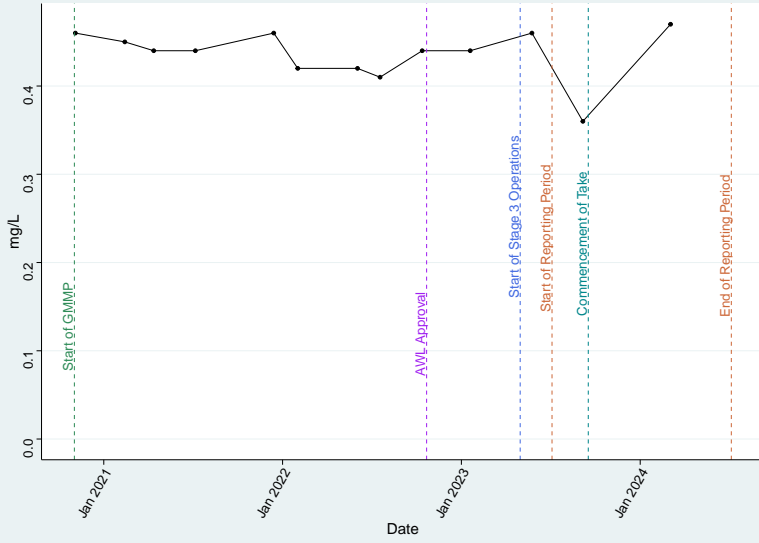
Bore CSMH1Rb (Balgowan Coal Sequence) – Al_diss

Mann Kendall Trend Test | $\tau = -0.707$ | $p\text{-value} = 0.00386$ | Negative trend



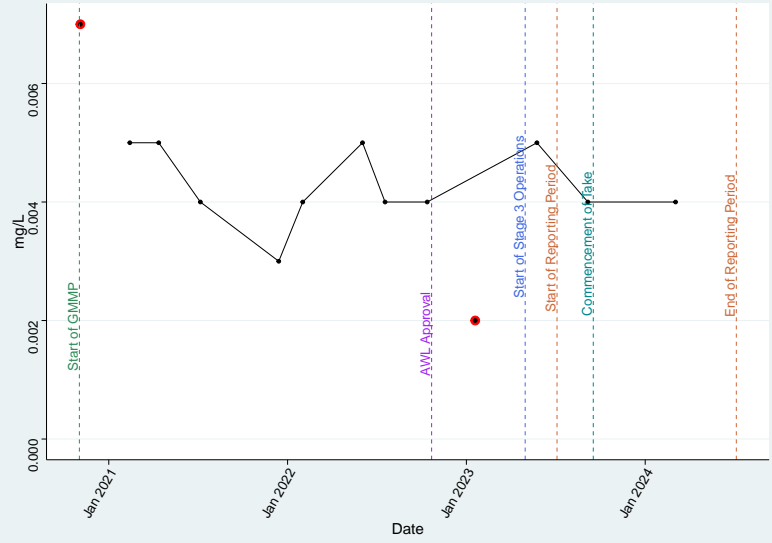
Bore CSMH1Rb (Balgowan Coal Sequence) – Ammonia as N

Mann Kendall Trend Test | $\tau = -0.137$ | $p\text{-value} = 0.573$ | No trend



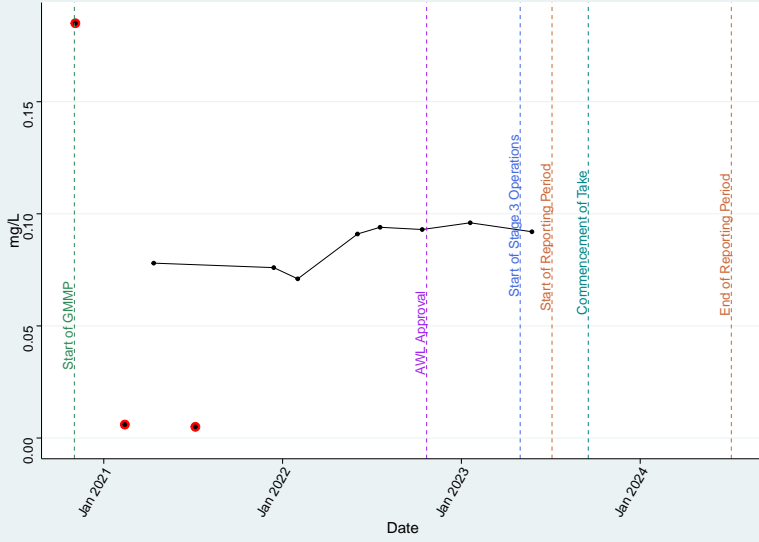
Bore CSMH1Rb (Balgowan Coal Sequence) – As_diss

Mann Kendall Trend Test | $\tau = -0.375$ | $p\text{-value} = 0.115$ | No trend



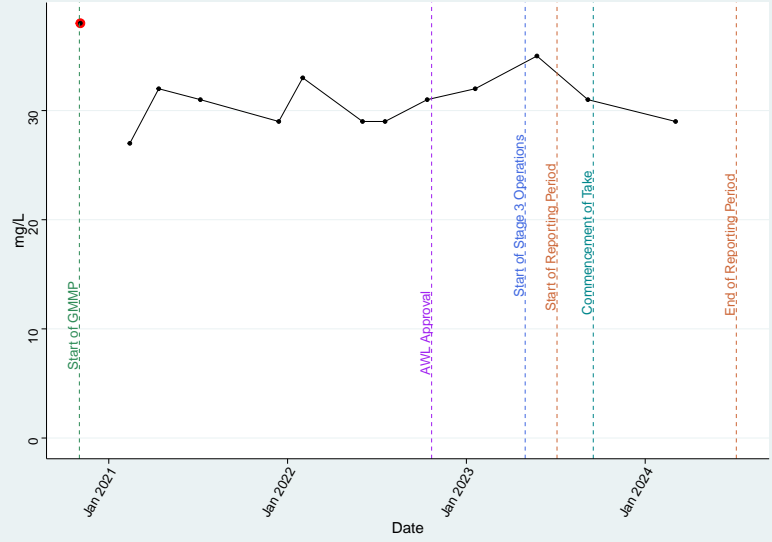
Bore CSMH1Rb (Balgowan Coal Sequence) – Ba_diss

Mann Kendall Trend Test | $\tau = 0.309$ | $p\text{-value} = 0.213$ | No trend



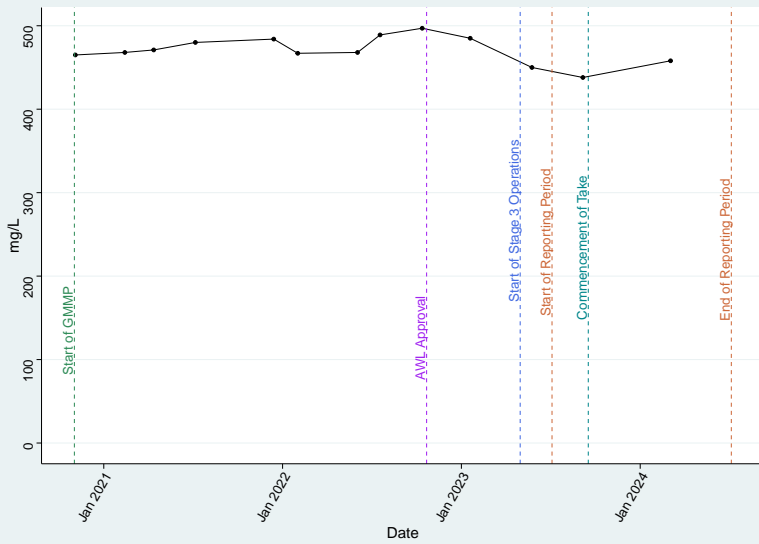
Bore CSMH1Rb (Balgowan Coal Sequence) – Ca

Mann Kendall Trend Test | $\tau = -0.0275$ | $p\text{-value} = 0.95$ | No trend



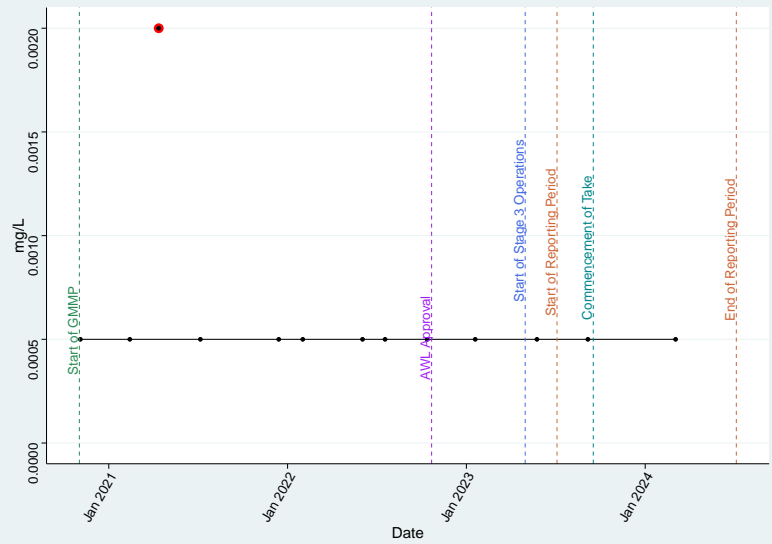
Bore CSMH1Rb (Balgowan Coal Sequence) – Cl

Mann Kendall Trend Test | $\tau = -0.0387$ | $p\text{-value} = 0.903$ | No trend

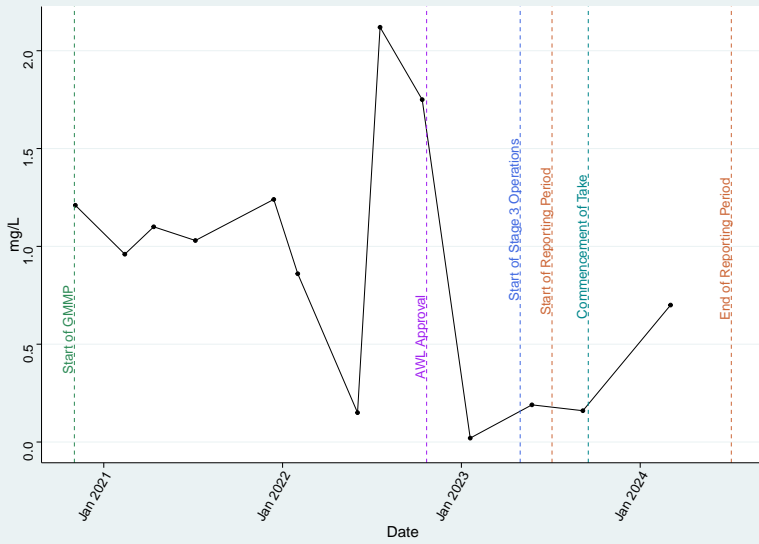


Bore CSMH1Rb (Balgowan Coal Sequence) – Cu_diss

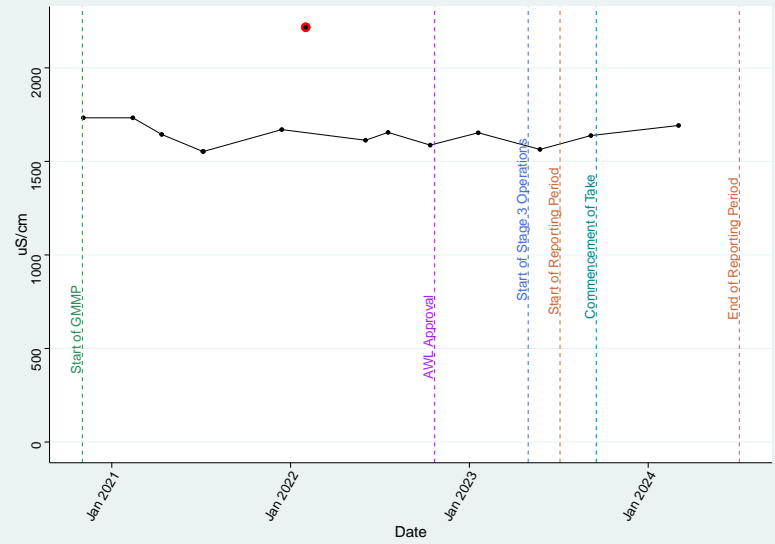
Mann Kendall Trend Test | $\tau = -0.261$ | $p\text{-value} = 0.35$ | No trend



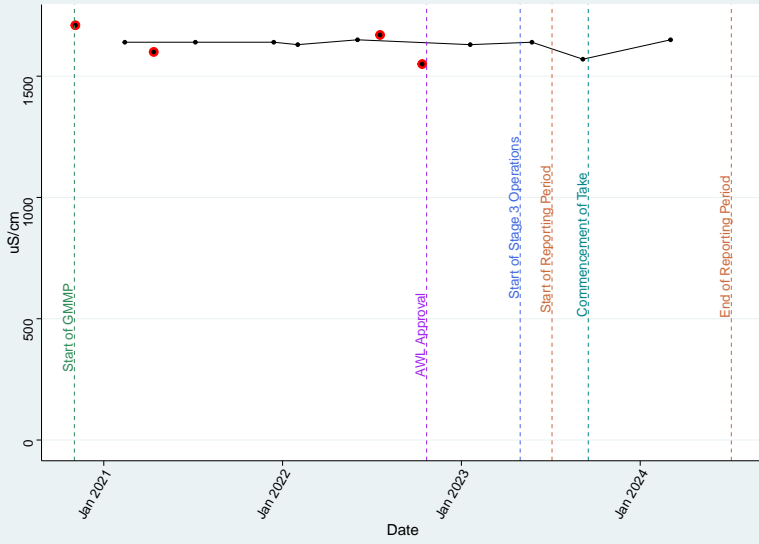
Bore CSMH1Rb (Balgowan Coal Sequence) – DO_Field
 Mann Kendall Trend Test | $\tau = -0.282$ | $p\text{-value} = 0.2$ | No trend



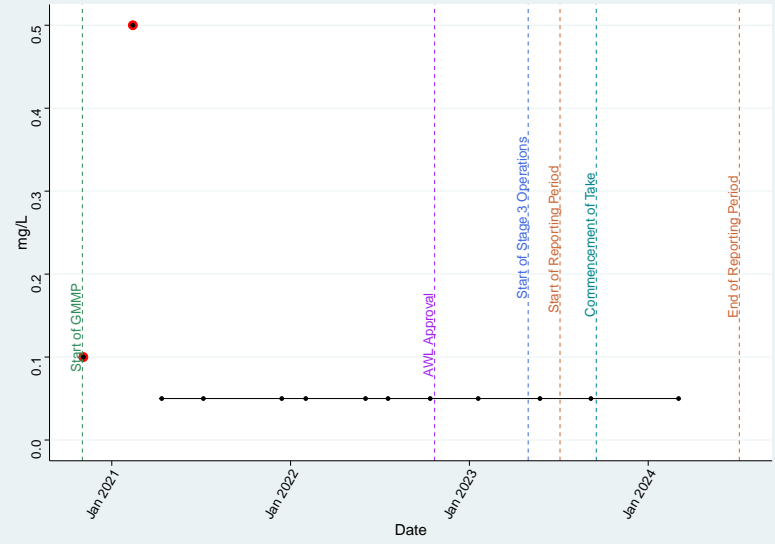
Bore CSMH1Rb (Balgowan Coal Sequence) – EC_Field
 Mann Kendall Trend Test | $\tau = -0.122$ | $p\text{-value} = 0.583$ | No trend



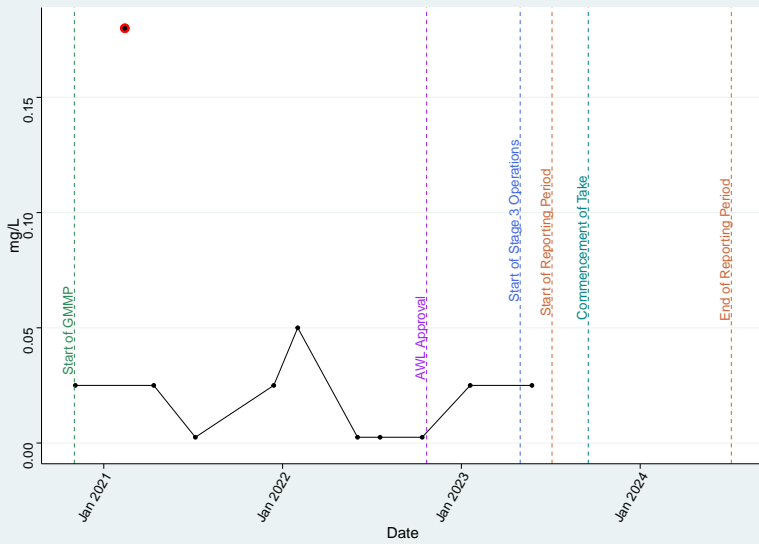
Bore CSMH1Rb (Balgowan Coal Sequence) – EC_Lab
 Mann Kendall Trend Test | $\tau = -0.135$ | $p\text{-value} = 0.575$ | No trend



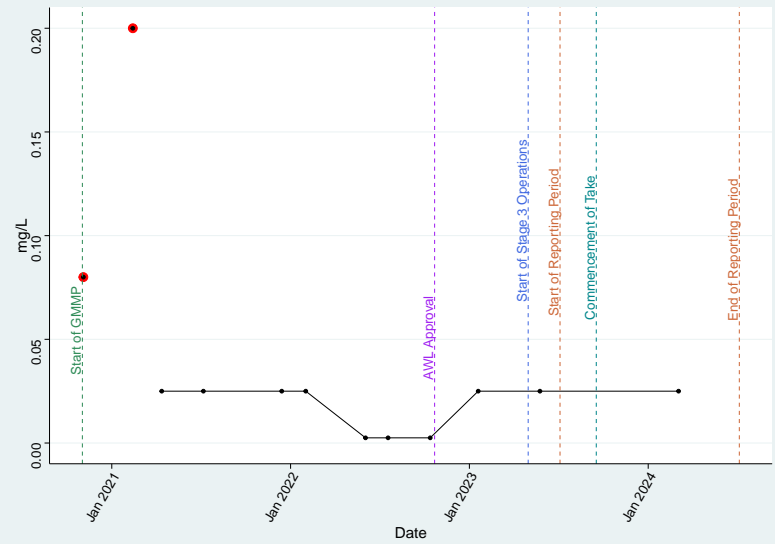
Bore CSMH1Rb (Balgowan Coal Sequence) – F
 Mann Kendall Trend Test | $\tau = -0.496$ | $p\text{-value} = 0.0495$ | Negative trend



Bore CSMH1Rb (Balgowan Coal Sequence) – Fe2
 Mann Kendall Trend Test | $\tau = -0.238$ | $p\text{-value} = 0.397$ | No trend

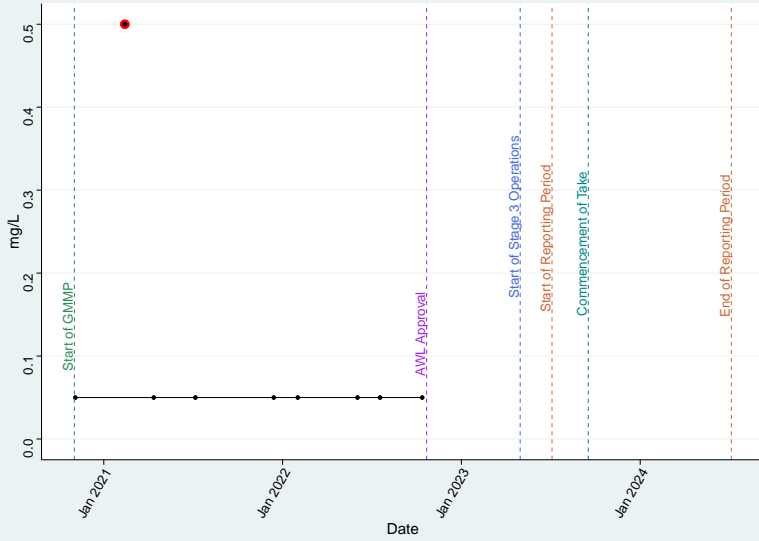


Bore CSMH1Rb (Balgowan Coal Sequence) – Fe_diss
 Mann Kendall Trend Test | $\tau = -0.418$ | $p\text{-value} = 0.102$ | No trend



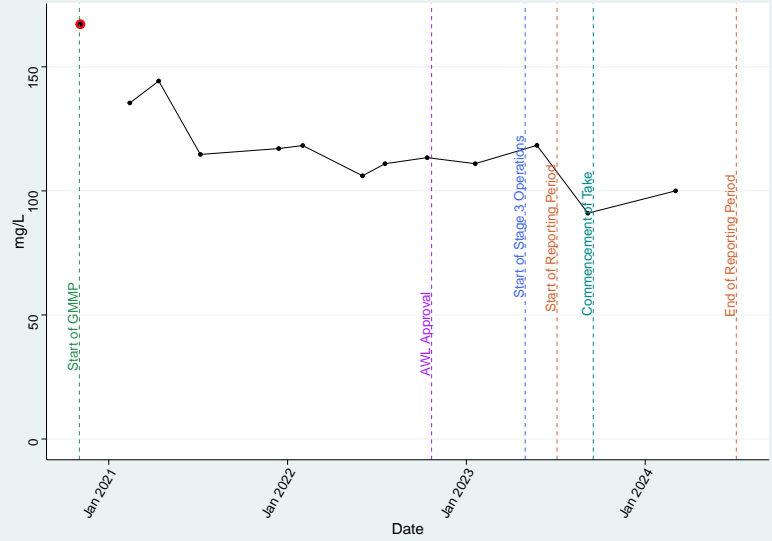
Bore CSMH1Rb (Balgowan Coal Sequence) – H2S

Mann Kendall Trend Test | $\tau = -0.354$ | $p\text{-value} = 0.333$ | No trend



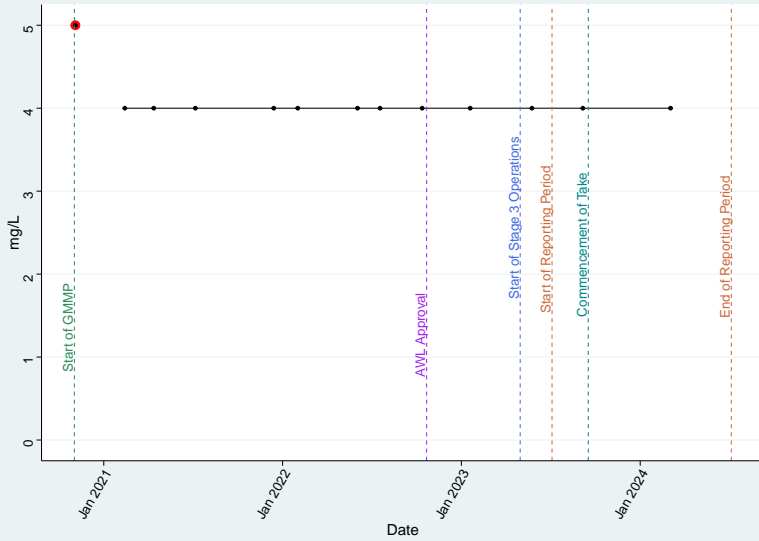
Bore CSMH1Rb (Balgowan Coal Sequence) – HCO3

Mann Kendall Trend Test | $\tau = -0.581$ | $p\text{-value} = 0.00716$ | Negative trend



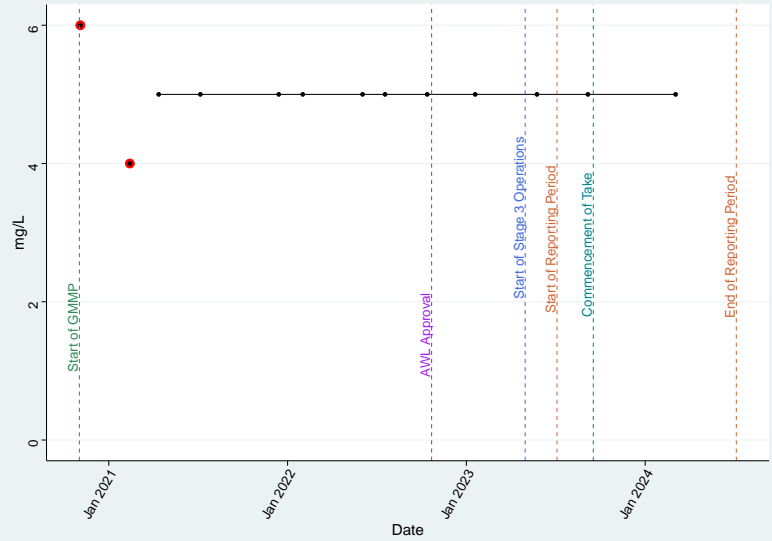
Bore CSMH1Rb (Balgowan Coal Sequence) – K

Mann Kendall Trend Test | $\tau = -0.392$ | $p\text{-value} = 0.142$ | No trend



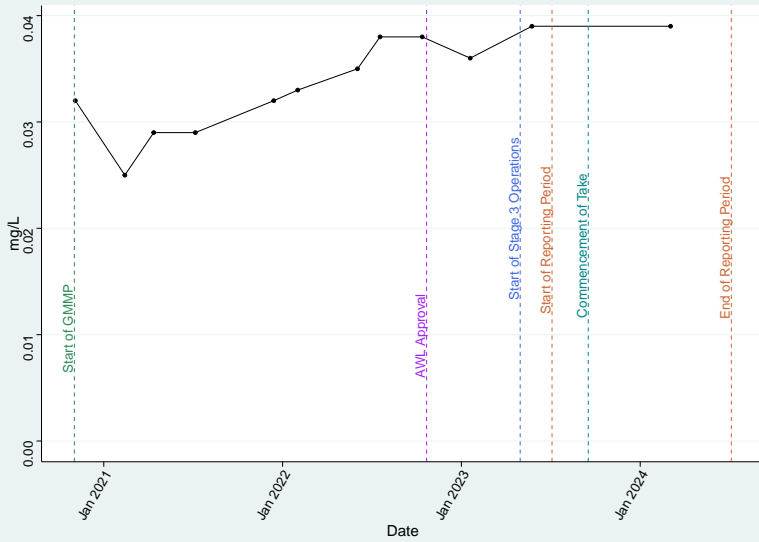
Bore CSMH1Rb (Balgowan Coal Sequence) – Mg

Mann Kendall Trend Test | $\tau = -0.0236$ | $p\text{-value} = 1$ | No trend



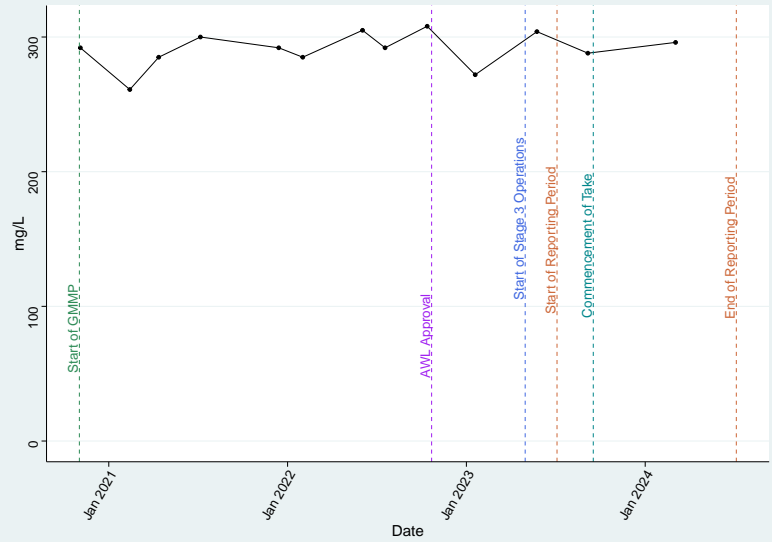
Bore CSMH1Rb (Balgowan Coal Sequence) – Mn_diss

Mann Kendall Trend Test | $\tau = 0.813$ | $p\text{-value} = 0.000415$ | Positive trend



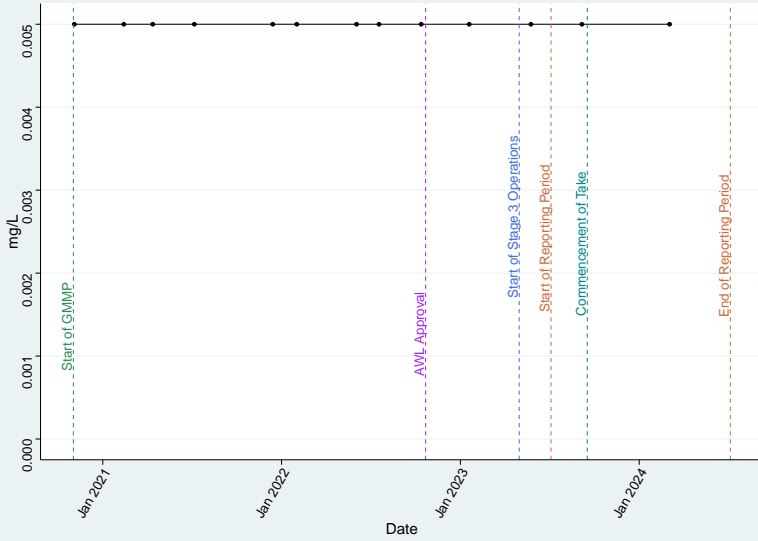
Bore CSMH1Rb (Balgowan Coal Sequence) – Na

Mann Kendall Trend Test | $\tau = 0.211$ | $p\text{-value} = 0.356$ | No trend



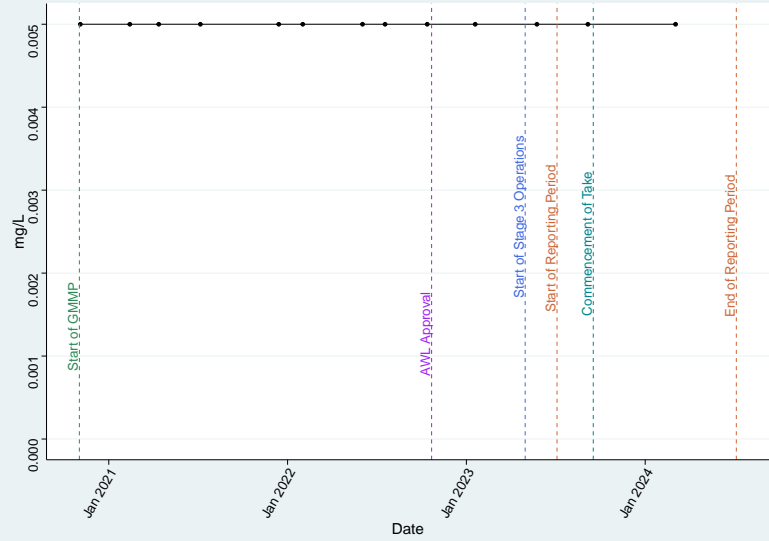
Bore CSMH1Rb (Balgowan Coal Sequence) – Nitrate as N

Mann Kendall Trend Test | $\tau = 1$ | p-value = 1 | No trend



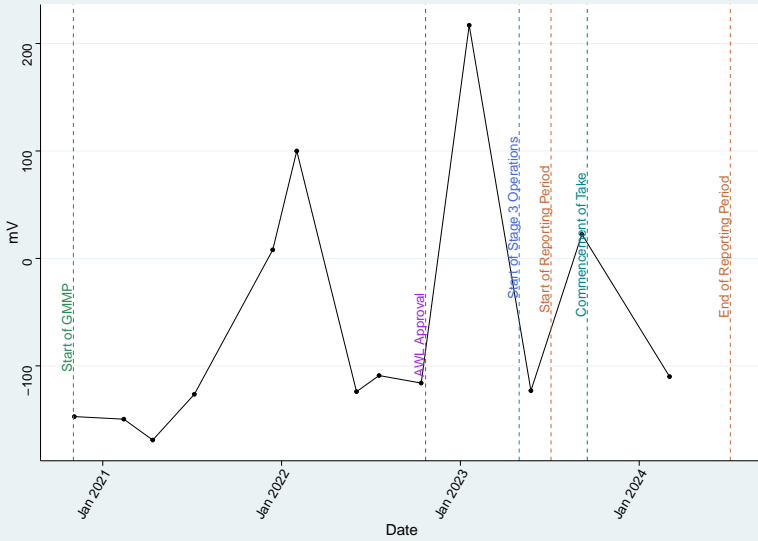
Bore CSMH1Rb (Balgowan Coal Sequence) – Nitrite as N

Mann Kendall Trend Test | $\tau = 1$ | p-value = 1 | No trend



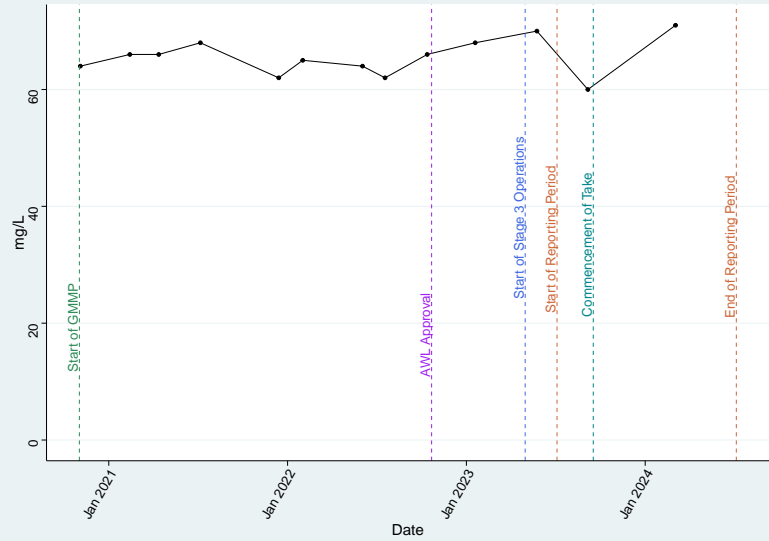
Bore CSMH1Rb (Balgowan Coal Sequence) – Redox_Field

Mann Kendall Trend Test | $\tau = 0.436$ | p-value = 0.0441 | Positive trend



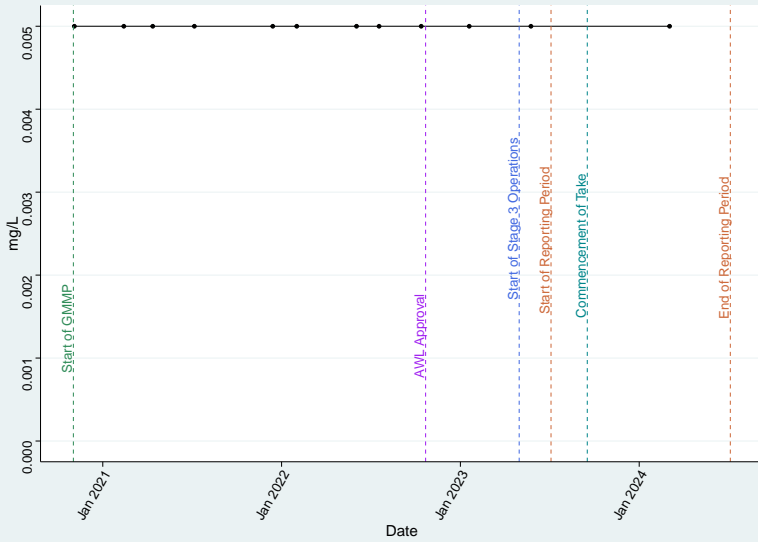
Bore CSMH1Rb (Balgowan Coal Sequence) – SO4

Mann Kendall Trend Test | $\tau = 0.187$ | p-value = 0.422 | No trend



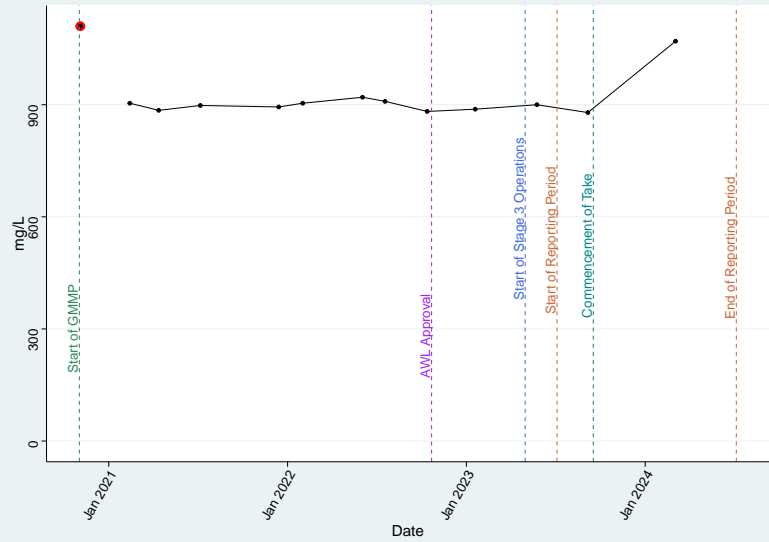
Bore CSMH1Rb (Balgowan Coal Sequence) – Se_diss

Mann Kendall Trend Test | $\tau = 1$ | p-value = 1 | No trend



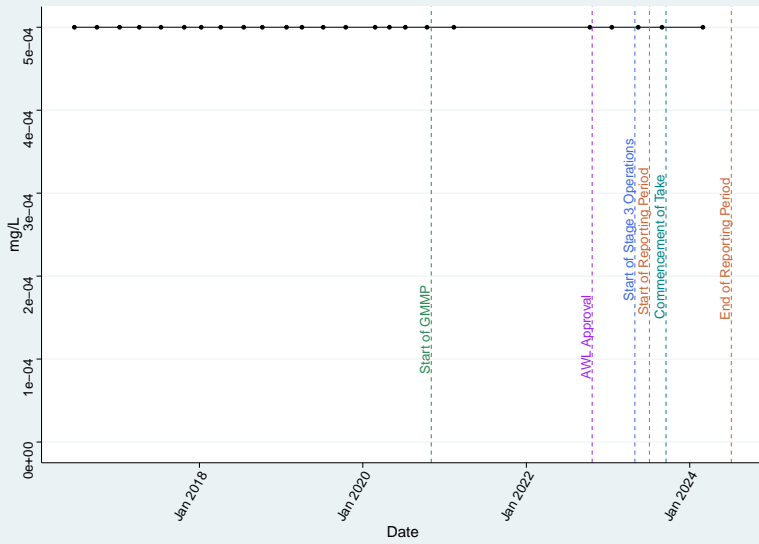
Bore CSMH1Rb (Balgowan Coal Sequence) – TDS

Mann Kendall Trend Test | $\tau = -0.142$ | p-value = 0.541 | No trend



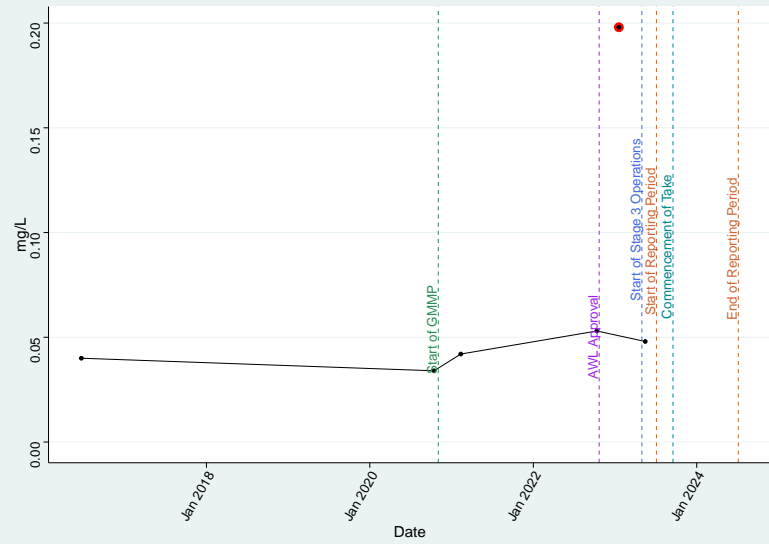
Bore GW05A (Main Range Volcanics) – As_diss

Mann Kendall Trend Test | $\tau = 1$ | p-value = 1 | No trend



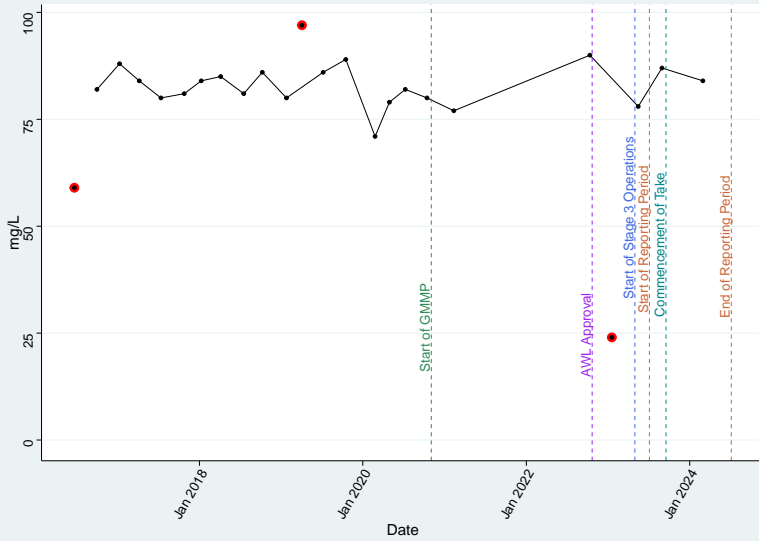
Bore GW05A (Main Range Volcanics) – Ba_diss

Mann Kendall Trend Test | $\tau = 0.6$ | p-value = 0.133 | No trend



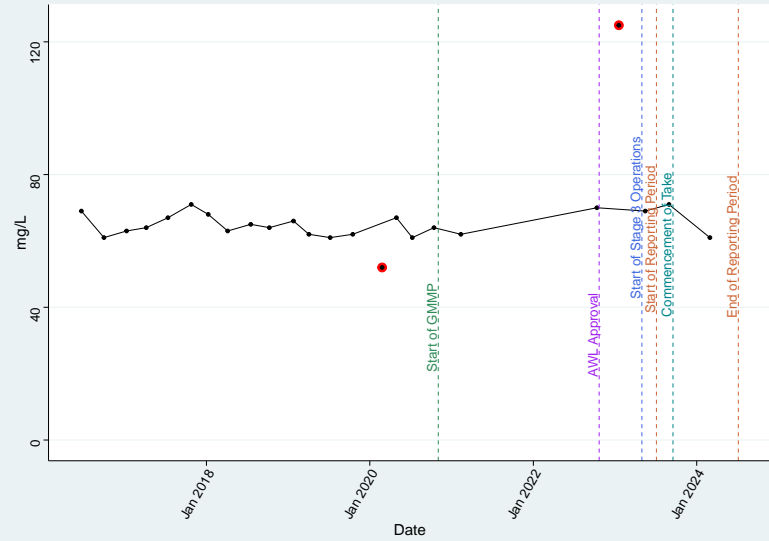
Bore GW05A (Main Range Volcanics) – Ca

Mann Kendall Trend Test | $\tau = -0.0332$ | p-value = 0.842 | No trend



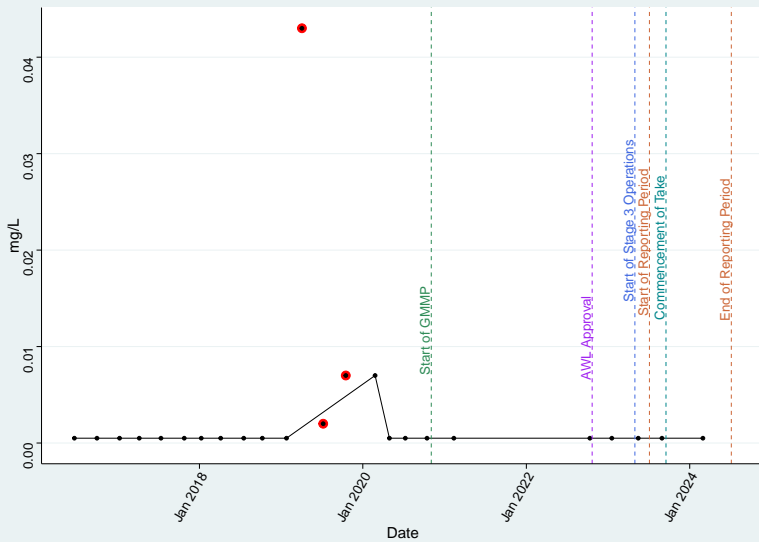
Bore GW05A (Main Range Volcanics) – Cl

Mann Kendall Trend Test | $\tau = 0.0149$ | p-value = 0.94 | No trend



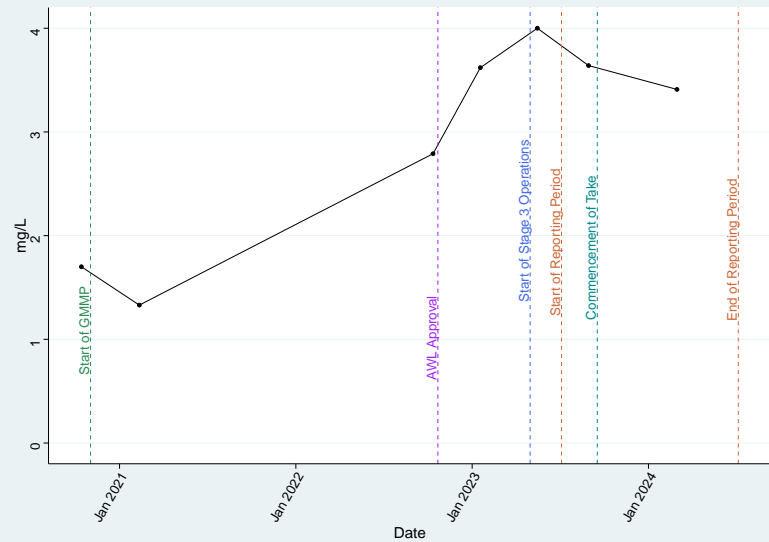
Bore GW05A (Main Range Volcanics) – Cu_diss

Mann Kendall Trend Test | $\tau = 0.0457$ | p-value = 0.817 | No trend



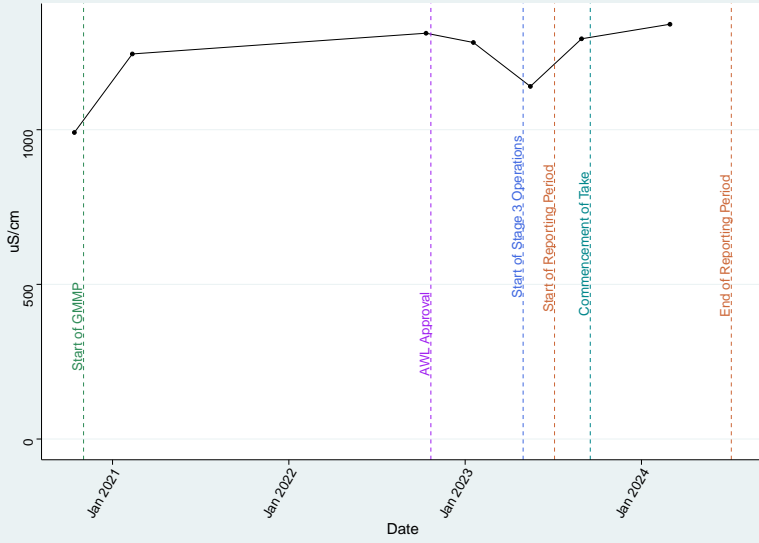
Bore GW05A (Main Range Volcanics) – DO_Field

Mann Kendall Trend Test | $\tau = 0.524$ | p-value = 0.133 | No trend



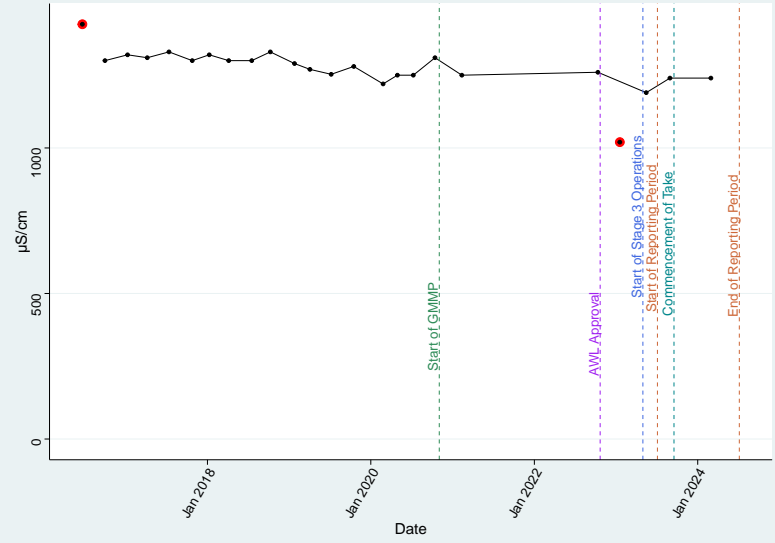
Bore GW05A (Main Range Volcanics) – EC_Field

Mann Kendall Trend Test | $\tau = 0.524$ | $p\text{-value} = 0.133$ | No trend



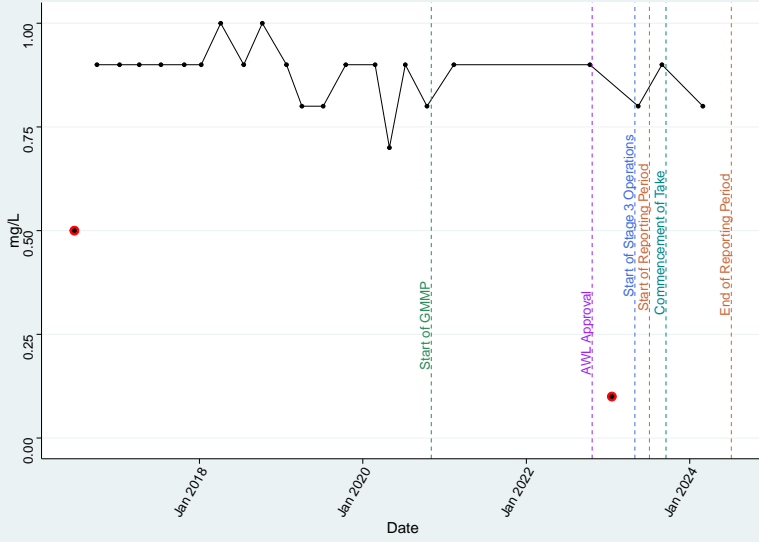
Bore GW05A (Main Range Volcanics) – EC_Lab

Mann Kendall Trend Test | $\tau = -0.657$ | $p\text{-value} = 0.0000115$ | Negative trend



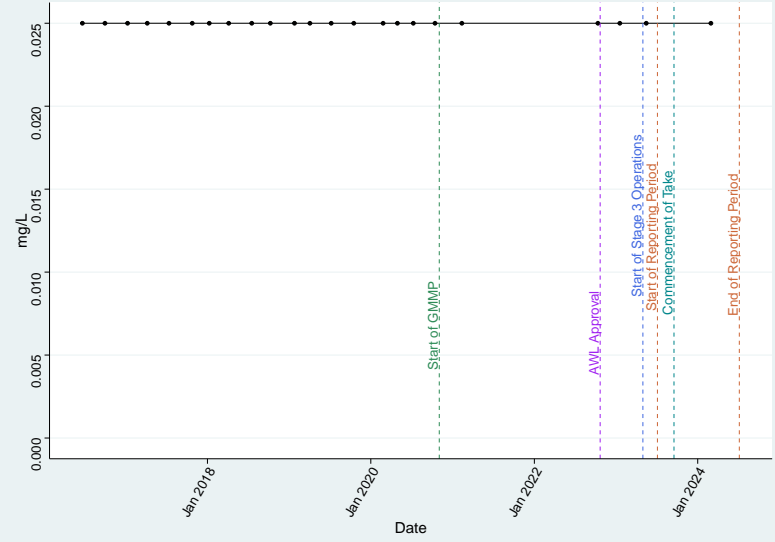
Bore GW05A (Main Range Volcanics) – F

Mann Kendall Trend Test | $\tau = -0.237$ | $p\text{-value} = 0.153$ | No trend



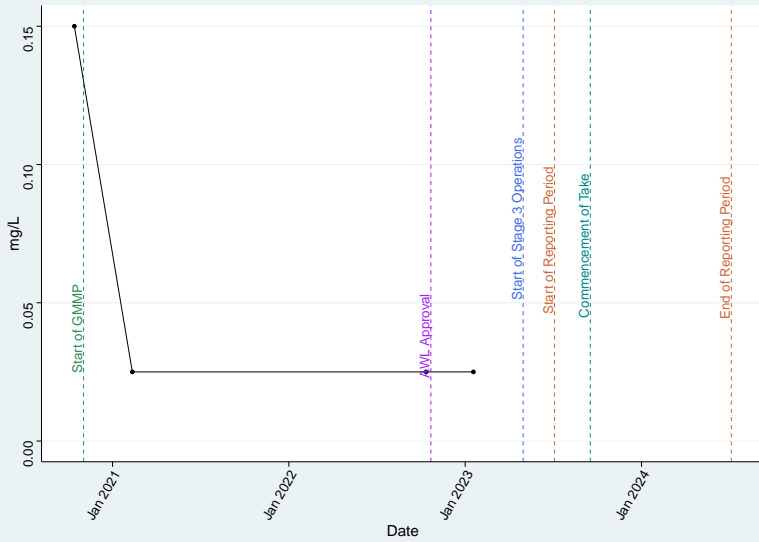
Bore GW05A (Main Range Volcanics) – Fe_diss

Mann Kendall Trend Test | $\tau = 1$ | $p\text{-value} = 1$ | No trend



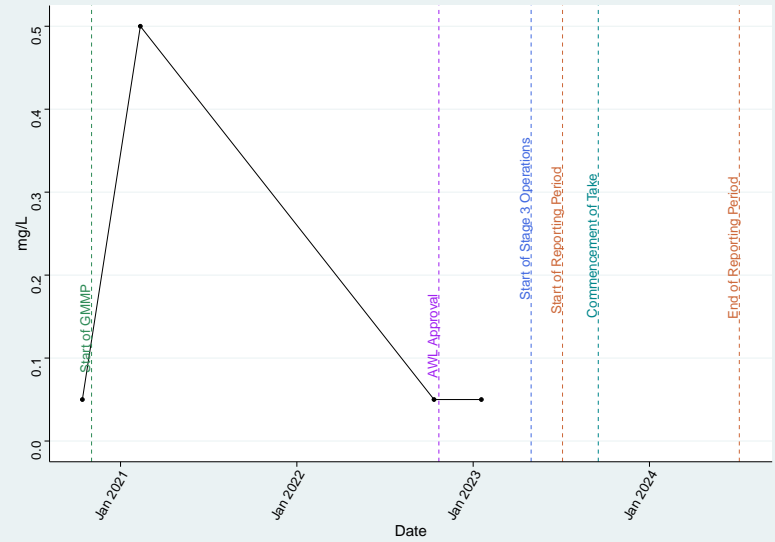
Bore GW05A (Main Range Volcanics) – Fe2

Mann Kendall Trend Test | $\tau = -0.707$ | $p\text{-value} = 0.371$ | No trend



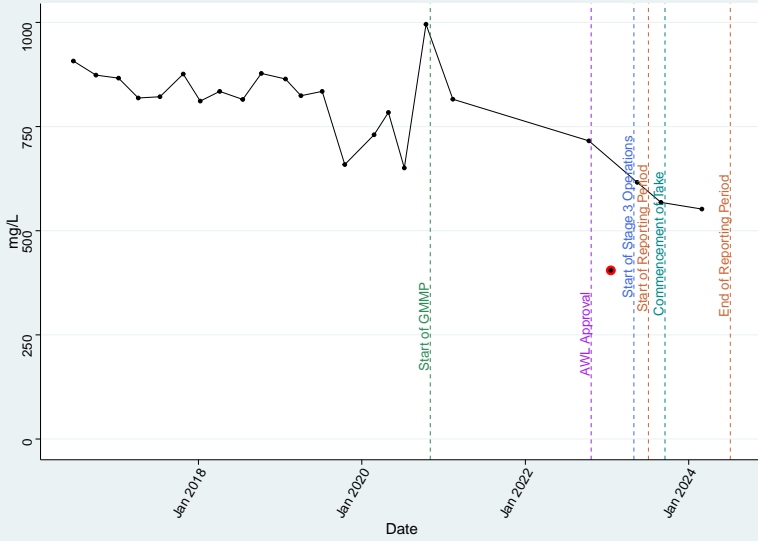
Bore GW05A (Main Range Volcanics) – H2S

Mann Kendall Trend Test | $\tau = -0.236$ | $p\text{-value} = 1$ | No trend



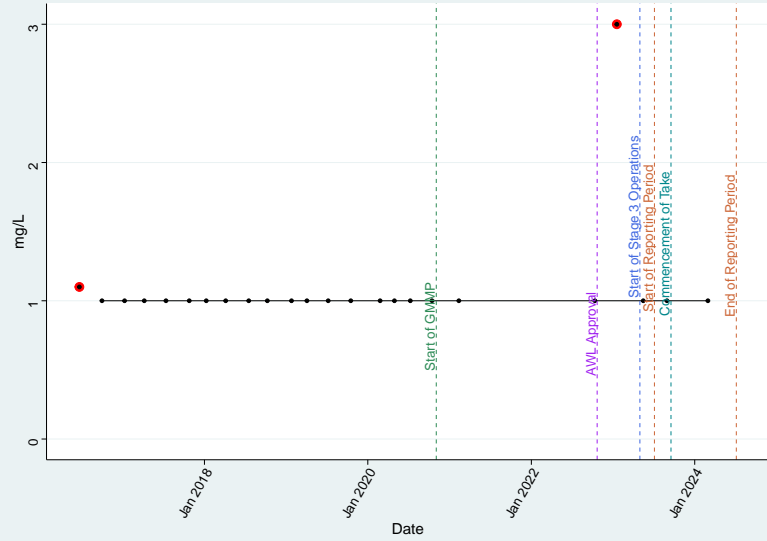
Bore GW05A (Main Range Volcanics) – HCO3

Mann Kendall Trend Test | $\tau = -0.543$ | $p\text{-value} = 0.000219$ | Negative trend



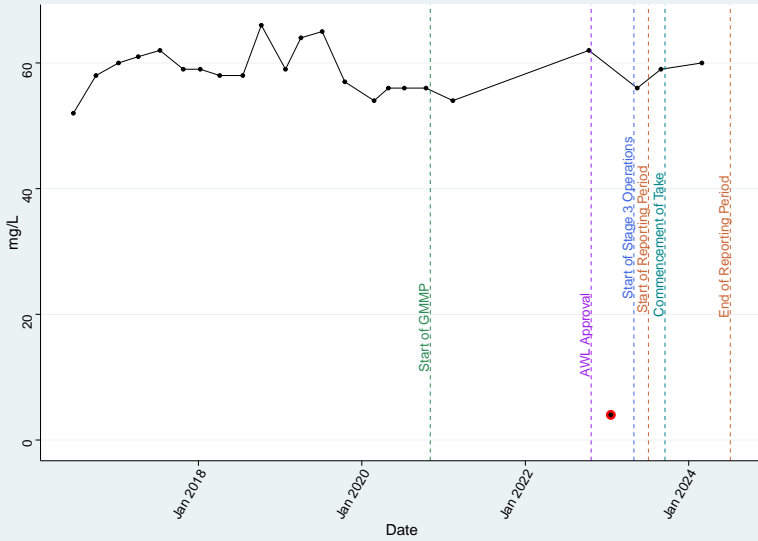
Bore GW05A (Main Range Volcanics) – K

Mann Kendall Trend Test | $\tau = -0.0449$ | $p\text{-value} = 0.835$ | No trend



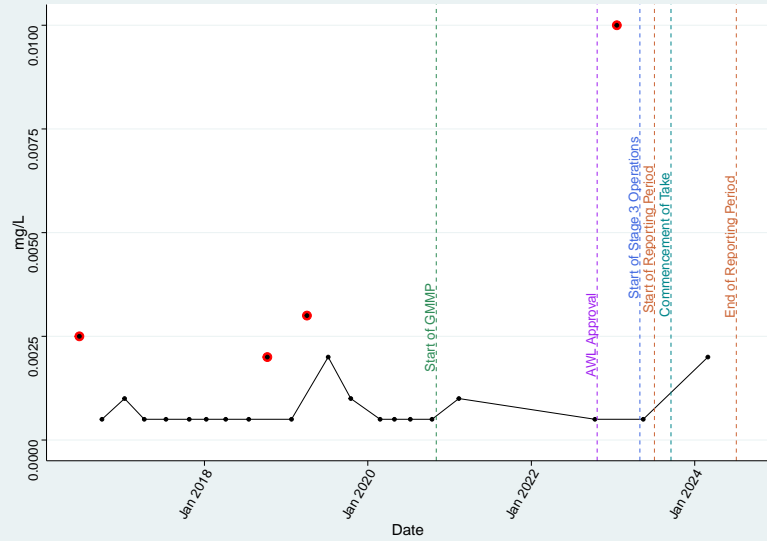
Bore GW05A (Main Range Volcanics) – Mg

Mann Kendall Trend Test | $\tau = -0.172$ | $p\text{-value} = 0.261$ | No trend



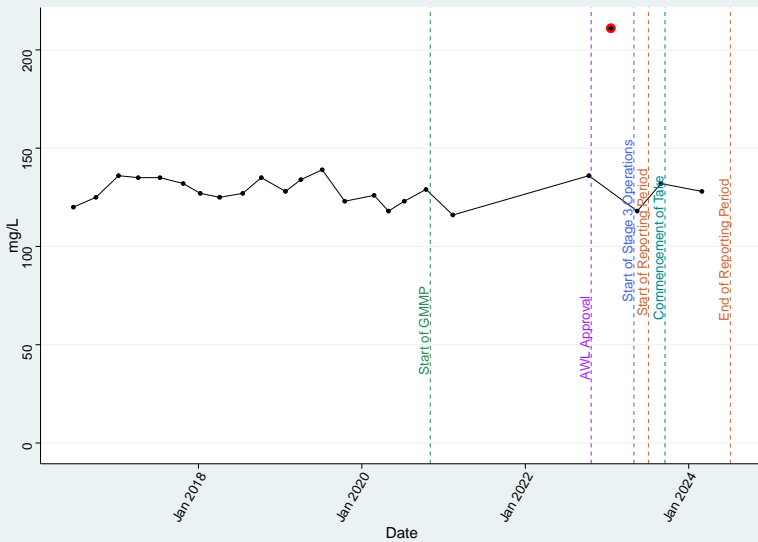
Bore GW05A (Main Range Volcanics) – Mn_diss

Mann Kendall Trend Test | $\tau = 0.0805$ | $p\text{-value} = 0.65$ | No trend



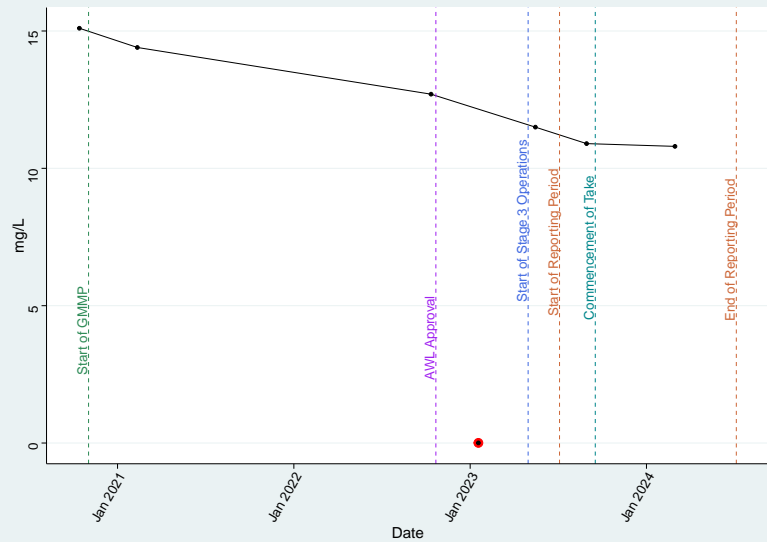
Bore GW05A (Main Range Volcanics) – Na

Mann Kendall Trend Test | $\tau = -0.0664$ | $p\text{-value} = 0.672$ | No trend



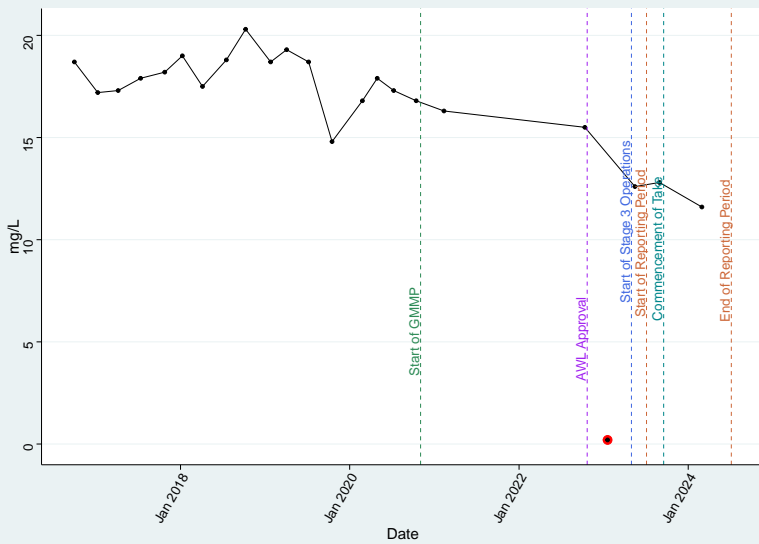
Bore GW05A (Main Range Volcanics) – Nitrate as N

Mann Kendall Trend Test | $\tau = -0.714$ | $p\text{-value} = 0.0355$ | Negative trend



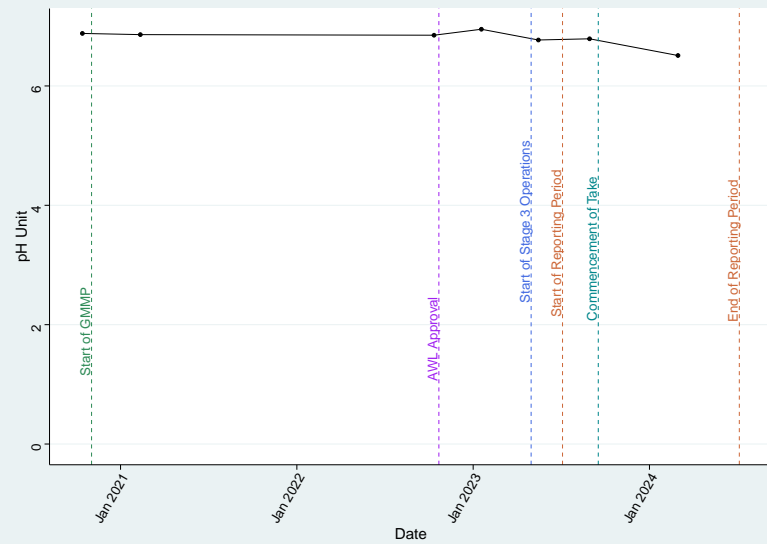
Bore GW05A (Main Range Volcanics) – Total_N

Mann Kendall Trend Test | $\tau = -0.492$ | $p\text{-value} = 0.00124$ | Negative trend



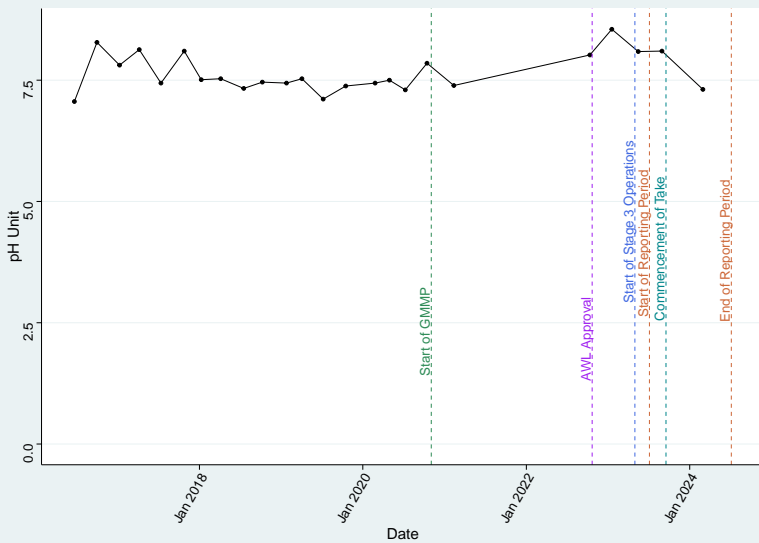
Bore GW05A (Main Range Volcanics) – pH_Field

Mann Kendall Trend Test | $\tau = -0.619$ | $p\text{-value} = 0.0715$ | No trend



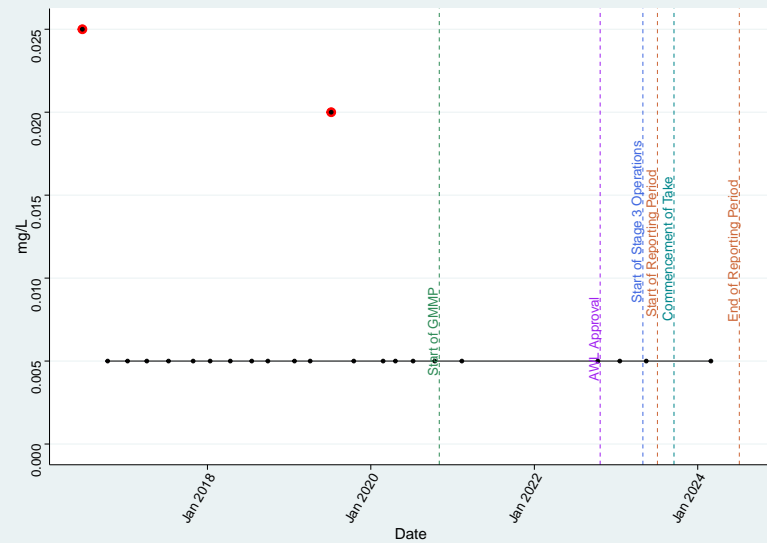
Bore GW05A (Main Range Volcanics) – pH_Lab

Mann Kendall Trend Test | $\tau = 0.00366$ | $p\text{-value} = 1$ | No trend



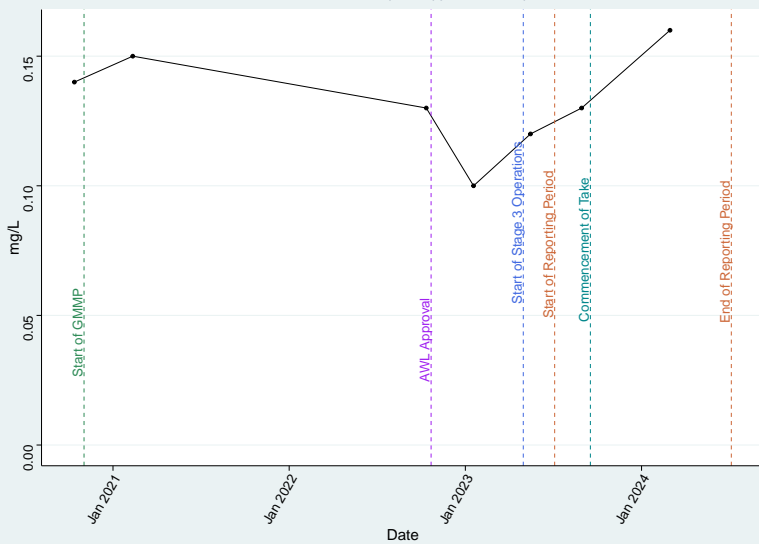
Bore GW05B (Acland Coal Sequence) – Al_diss

Mann Kendall Trend Test | $\tau = -0.201$ | $p\text{-value} = 0.276$ | No trend



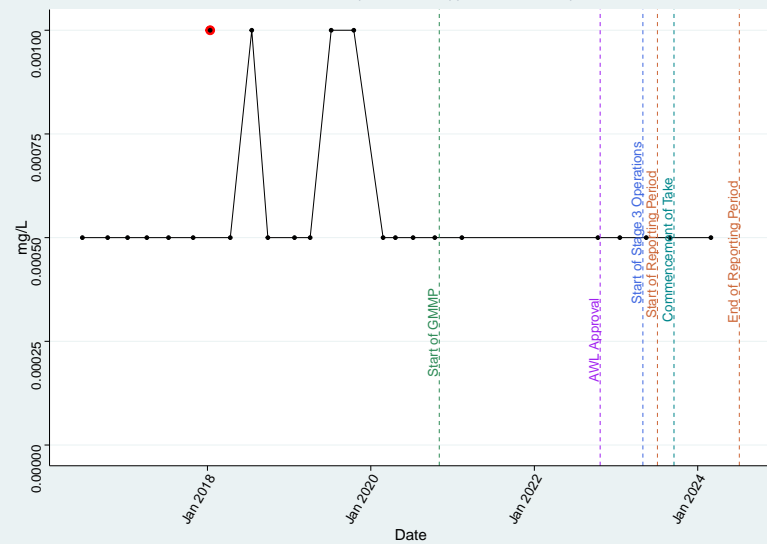
Bore GW05B (Acland Coal Sequence) – Ammonia as N

Mann Kendall Trend Test | $\tau = 0$ | $p\text{-value} = 1$ | No trend



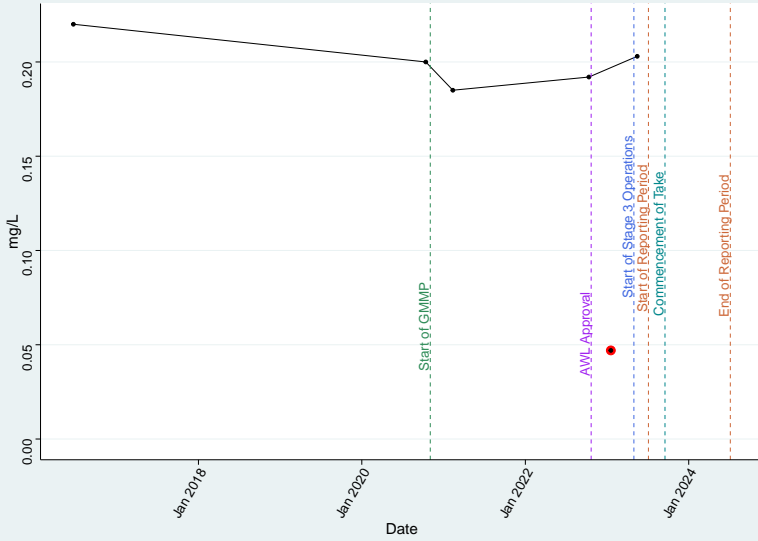
Bore GW05B (Acland Coal Sequence) – As_diss

Mann Kendall Trend Test | $\tau = -0.0942$ | $p\text{-value} = 0.615$ | No trend



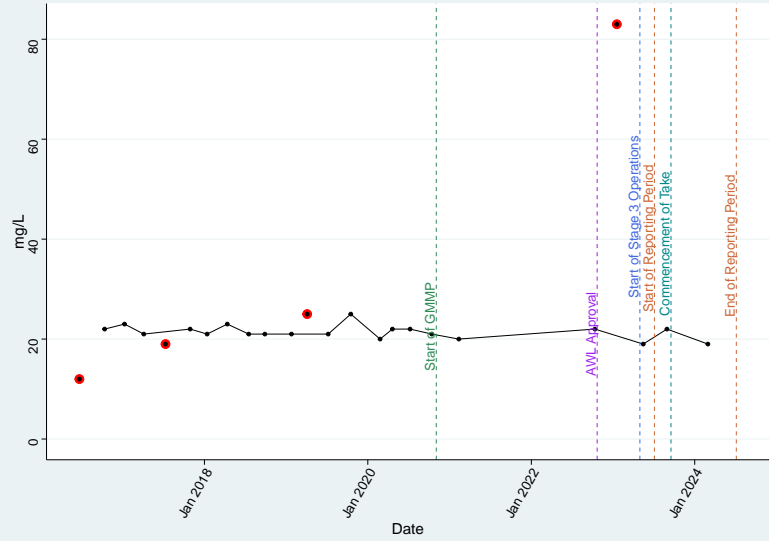
Bore GW05B (Acland Coal Sequence) – Ba_{diss}

Mann Kendall Trend Test | $\tau = -0.333$ | $p\text{-value} = 0.452$ | No trend



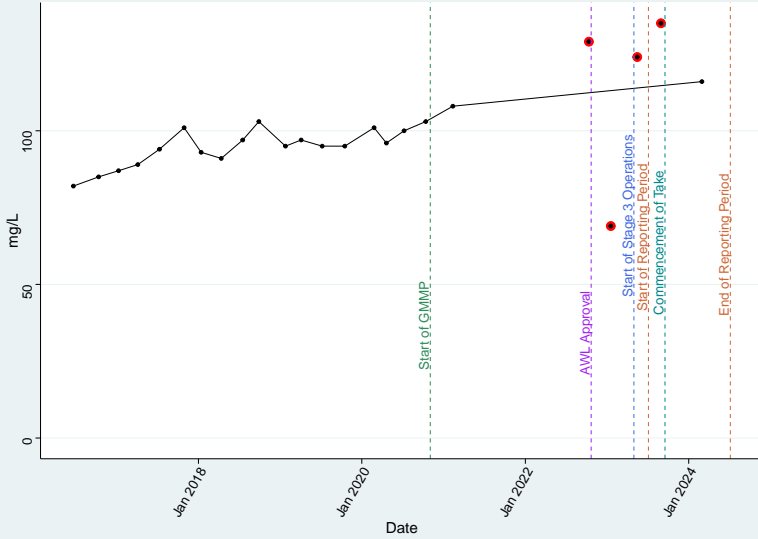
Bore GW05B (Acland Coal Sequence) – Ca

Mann Kendall Trend Test | $\tau = 0$ | $p\text{-value} = 1$ | No trend



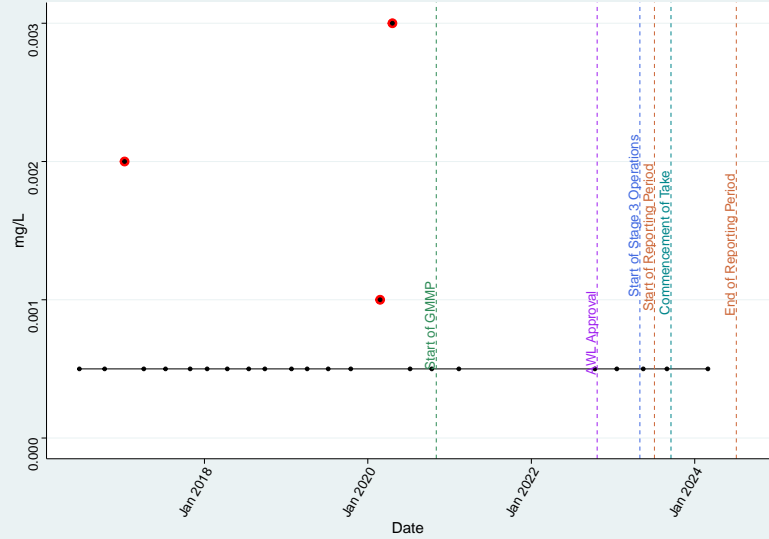
Bore GW05B (Acland Coal Sequence) – Cl

Mann Kendall Trend Test | $\tau = 0.608$ | $p\text{-value} = 0.0000411$ | Positive trend



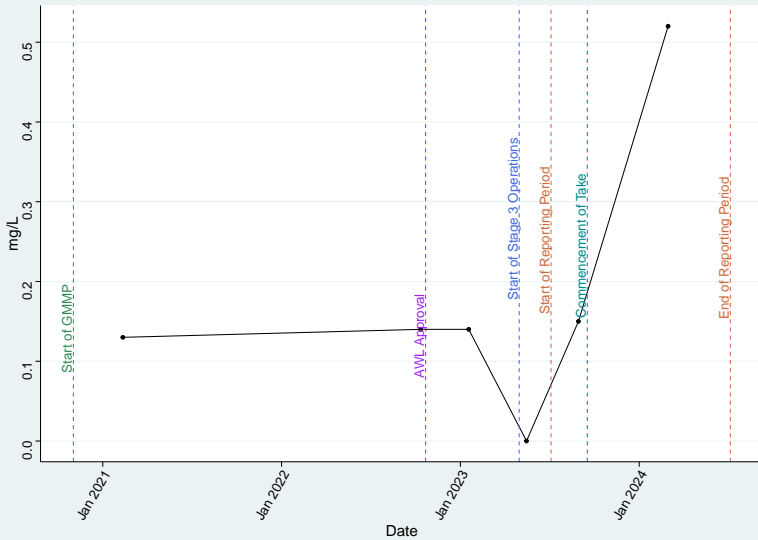
Bore GW05B (Acland Coal Sequence) – Cu_{diss}

Mann Kendall Trend Test | $\tau = -0.0445$ | $p\text{-value} = 0.828$ | No trend



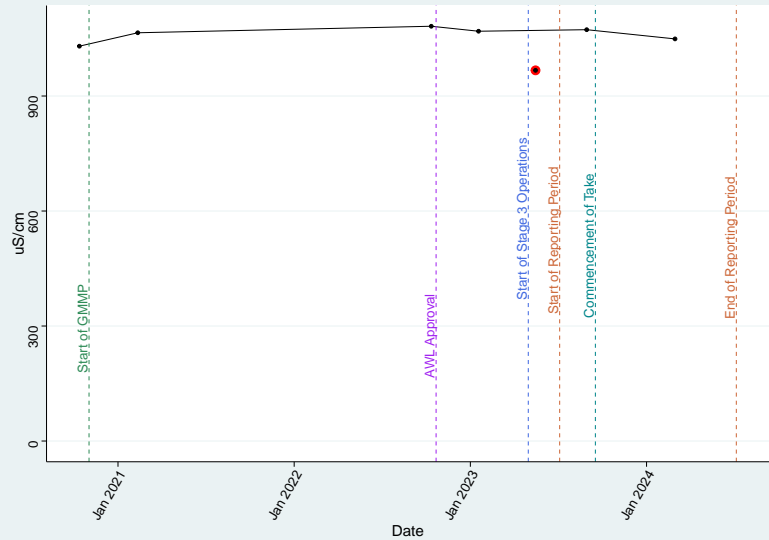
Bore GW05B (Acland Coal Sequence) – DO_{Field}

Mann Kendall Trend Test | $\tau = 0.552$ | $p\text{-value} = 0.181$ | No trend



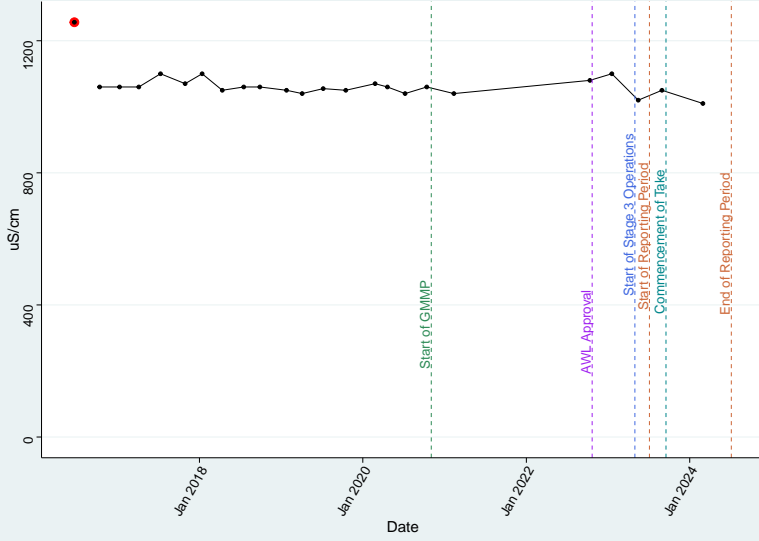
Bore GW05B (Acland Coal Sequence) – EC_{Field}

Mann Kendall Trend Test | $\tau = 0.0476$ | $p\text{-value} = 1$ | No trend



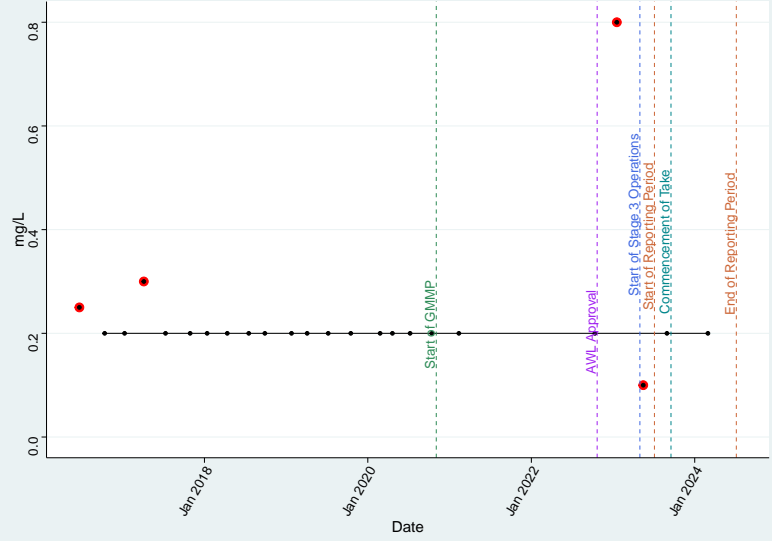
Bore GW05B (Acland Coal Sequence) – EC_Lab

Mann Kendall Trend Test | $\tau = -0.364$ | $p\text{-value} = 0.0187$ | Negative trend



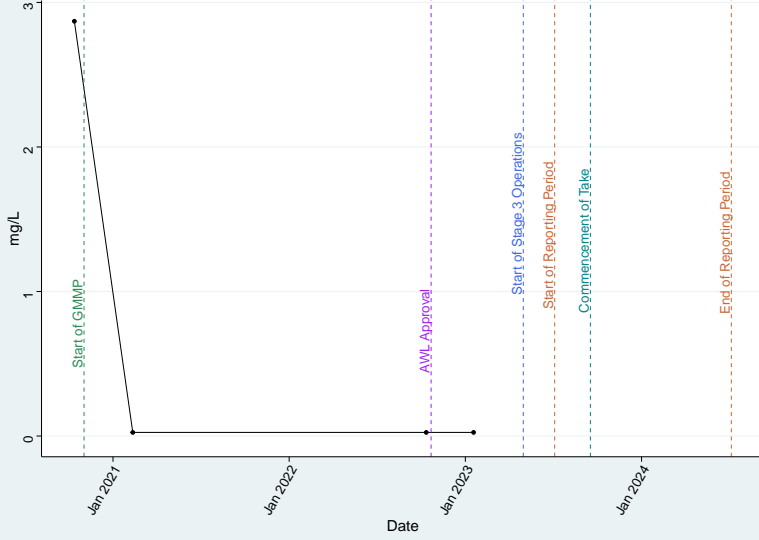
Bore GW05B (Acland Coal Sequence) – F

Mann Kendall Trend Test | $\tau = -0.234$ | $p\text{-value} = 0.178$ | No trend



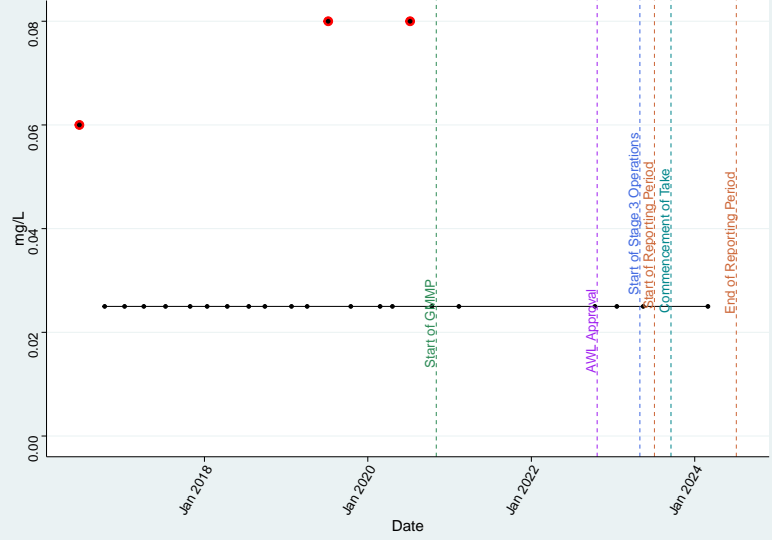
Bore GW05B (Acland Coal Sequence) – Fe2

Mann Kendall Trend Test | $\tau = -0.707$ | $p\text{-value} = 0.371$ | No trend



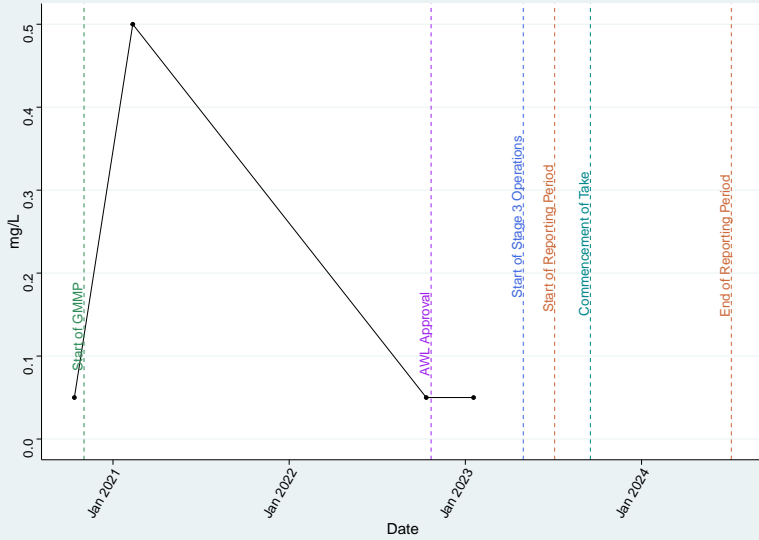
Bore GW05B (Acland Coal Sequence) – Fe_diss

Mann Kendall Trend Test | $\tau = -0.0639$ | $p\text{-value} = 0.75$ | No trend



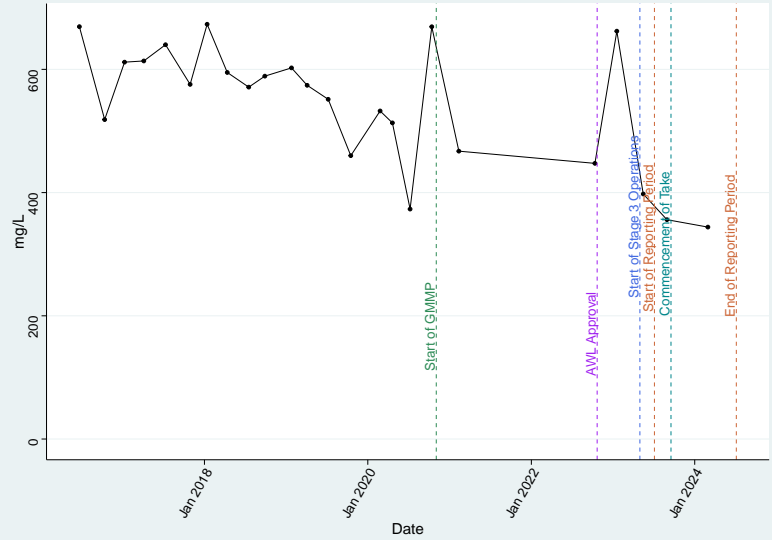
Bore GW05B (Acland Coal Sequence) – H2S

Mann Kendall Trend Test | $\tau = -0.236$ | $p\text{-value} = 1$ | No trend



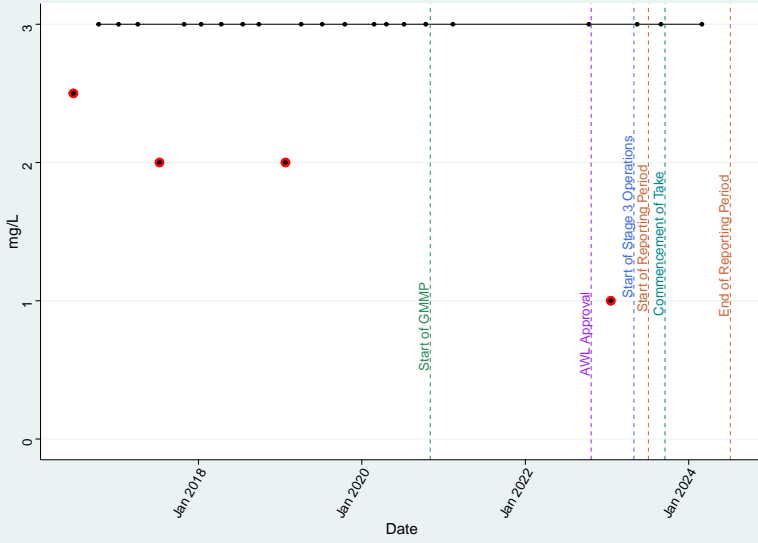
Bore GW05B (Acland Coal Sequence) – HCO3

Mann Kendall Trend Test | $\tau = -0.522$ | $p\text{-value} = 0.00039$ | Negative trend



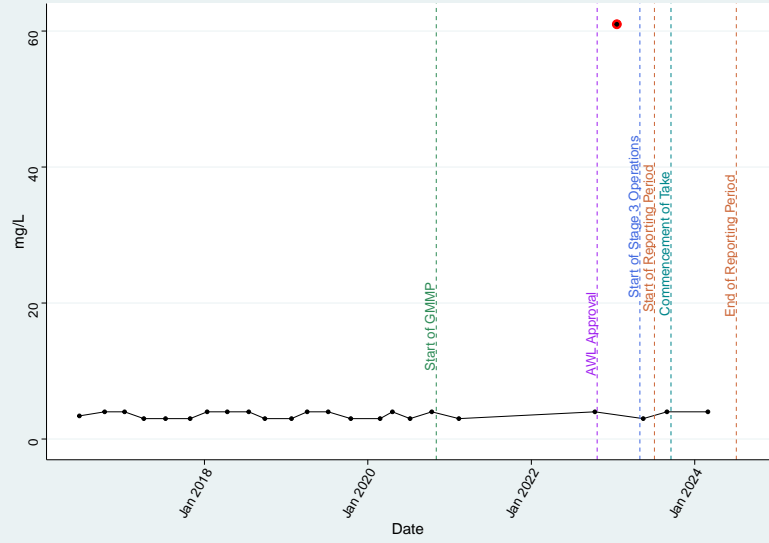
Bore GW05B (Acland Coal Sequence) – K

Mann Kendall Trend Test | $\tau = -0.124$ | $p\text{-value} = 0.488$ | No trend



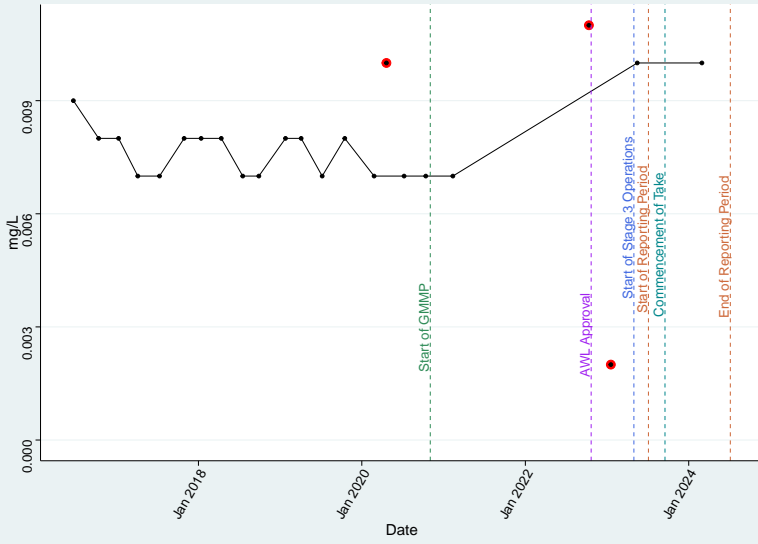
Bore GW05B (Acland Coal Sequence) – Mg

Mann Kendall Trend Test | $\tau = 0.117$ | $p\text{-value} = 0.504$ | No trend



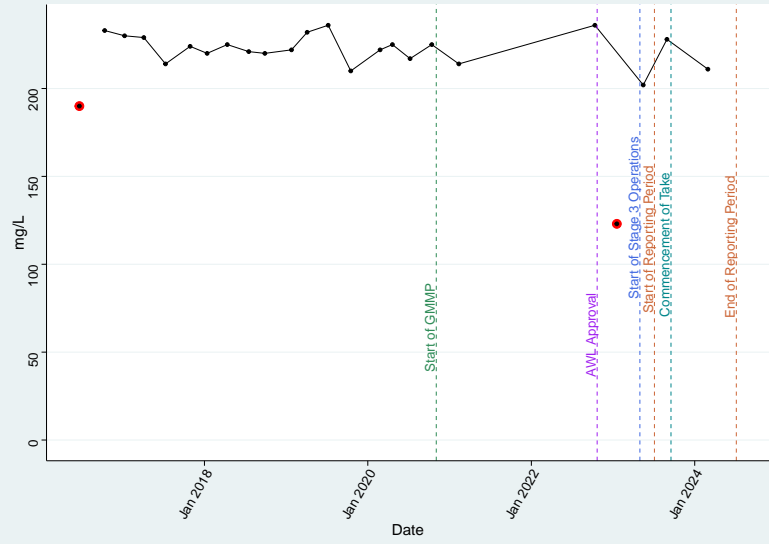
Bore GW05B (Acland Coal Sequence) – Mn_diss

Mann Kendall Trend Test | $\tau = -0.0184$ | $p\text{-value} = 0.933$ | No trend



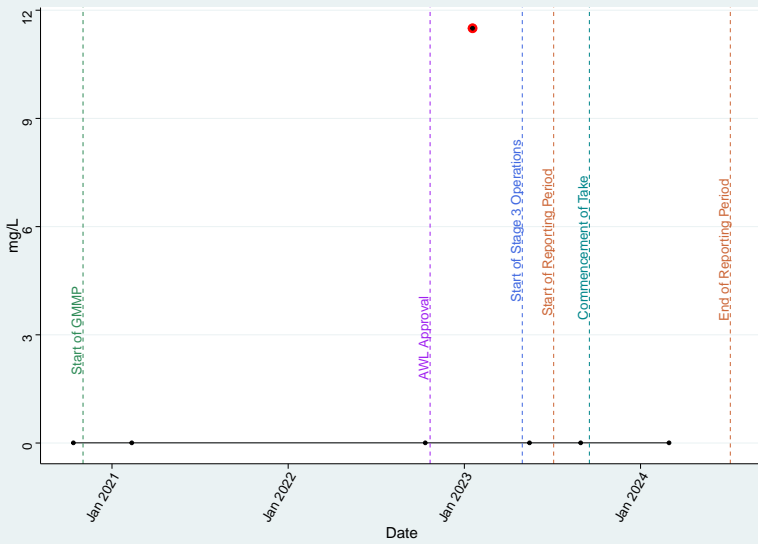
Bore GW05B (Acland Coal Sequence) – Na

Mann Kendall Trend Test | $\tau = -0.143$ | $p\text{-value} = 0.345$ | No trend



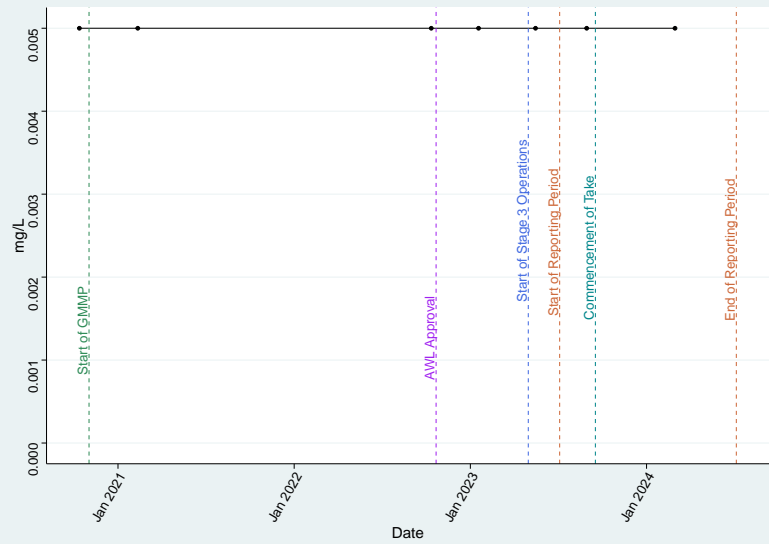
Bore GW05B (Acland Coal Sequence) – Nitrate as N

Mann Kendall Trend Test | $\tau = 0$ | $p\text{-value} = 1$ | No trend

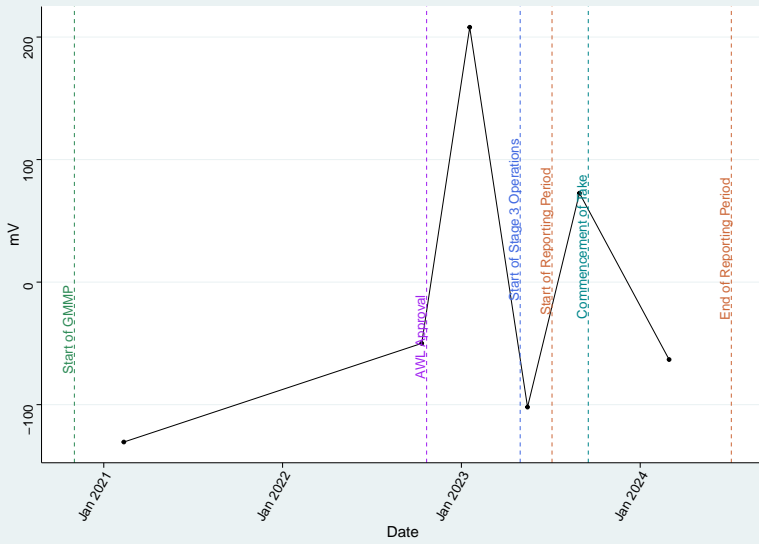


Bore GW05B (Acland Coal Sequence) – Nitrite as N

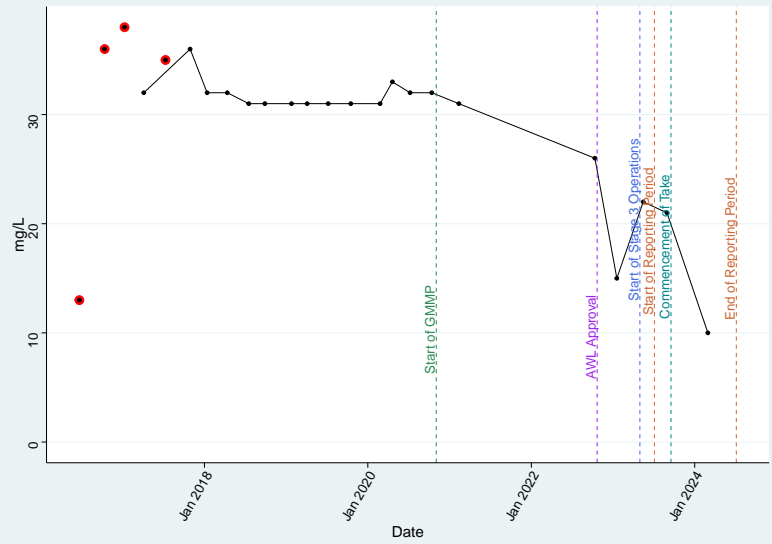
Mann Kendall Trend Test | $\tau = 1$ | $p\text{-value} = 1$ | No trend



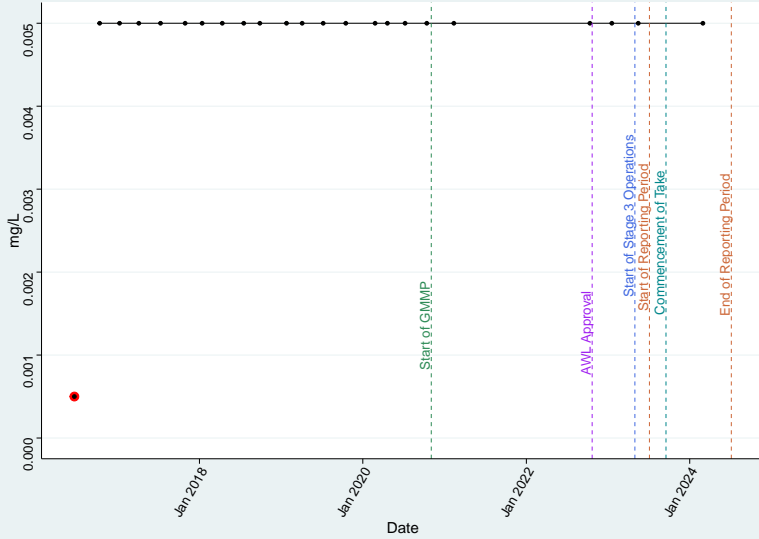
Bore GW05B (Acland Coal Sequence) – Redox_Field
 Mann Kendall Trend Test | $\tau = 0.2$ | $p\text{-value} = 0.707$ | No trend



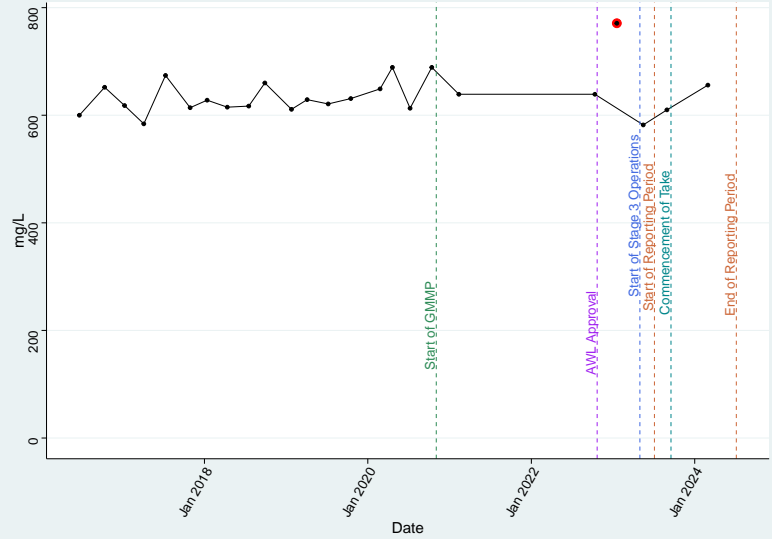
Bore GW05B (Acland Coal Sequence) – SO4
 Mann Kendall Trend Test | $\tau = -0.52$ | $p\text{-value} = 0.000776$ | Negative trend



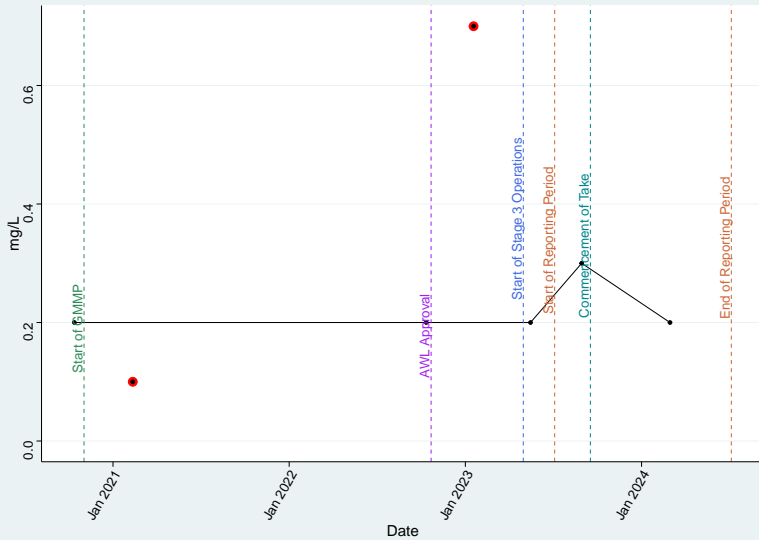
Bore GW05B (Acland Coal Sequence) – Se_diss
 Mann Kendall Trend Test | $\tau = 0.295$ | $p\text{-value} = 0.113$ | No trend



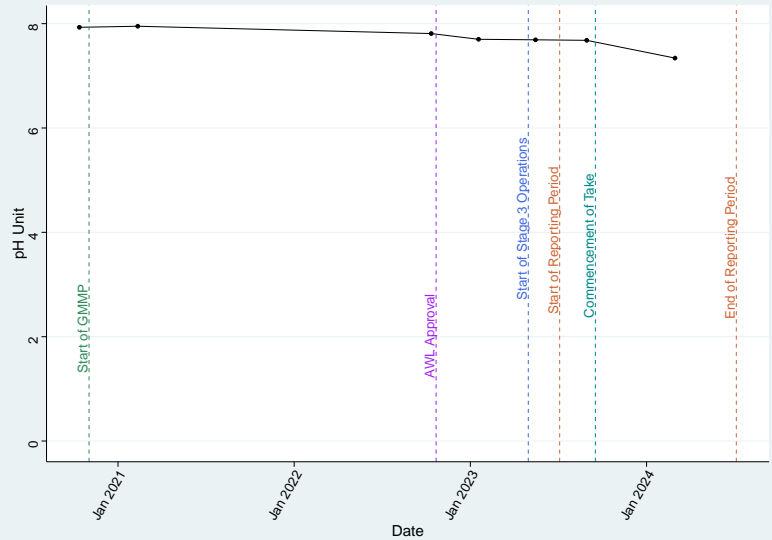
Bore GW05B (Acland Coal Sequence) – TDS
 Mann Kendall Trend Test | $\tau = 0.196$ | $p\text{-value} = 0.188$ | No trend



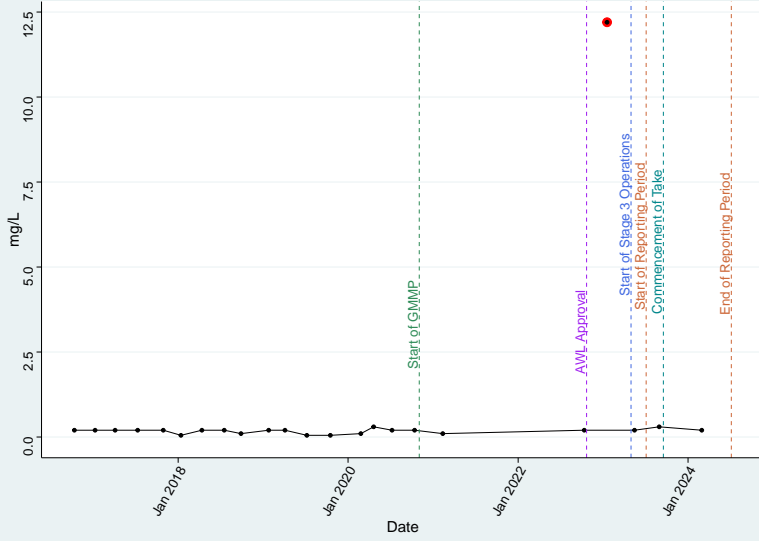
Bore GW05B (Acland Coal Sequence) – TKN
 Mann Kendall Trend Test | $\tau = 0.282$ | $p\text{-value} = 0.503$ | No trend



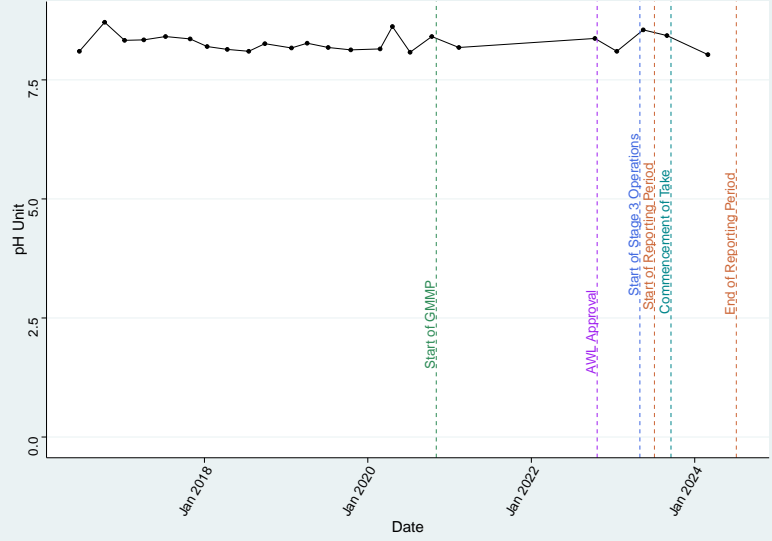
Bore GW05B (Acland Coal Sequence) – pH_Field
 Mann Kendall Trend Test | $\tau = -0.905$ | $p\text{-value} = 0.00686$ | Negative trend



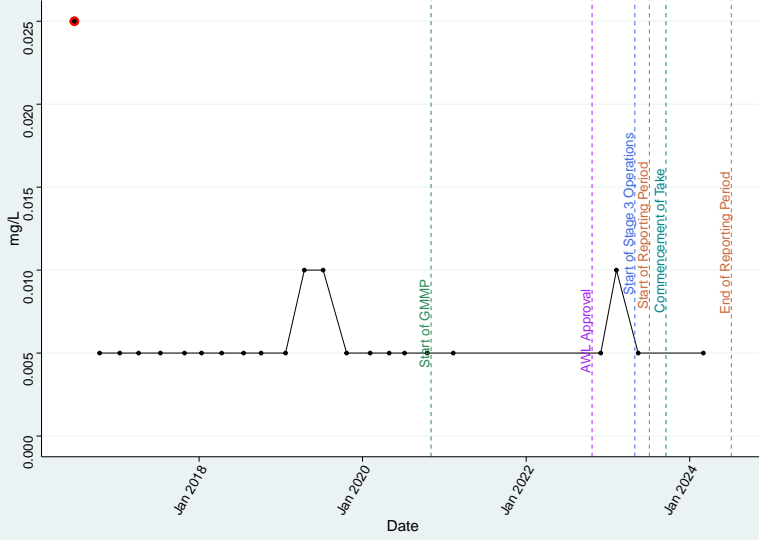
Bore GW05B (Acland Coal Sequence) – Total_N
 Mann Kendall Trend Test | $\tau = -0.157$ | $p\text{-value} = 0.364$ | No trend



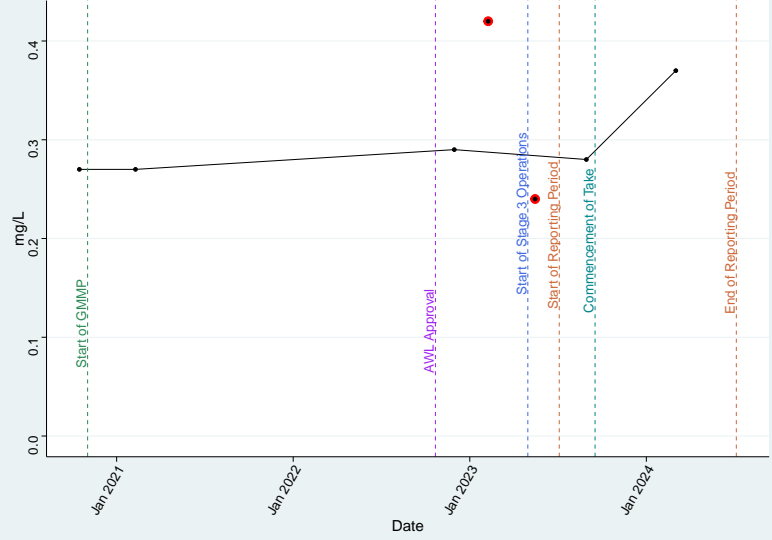
Bore GW05B (Acland Coal Sequence) – pH_Lab
 Mann Kendall Trend Test | $\tau = -0.0841$ | $p\text{-value} = 0.585$ | No trend



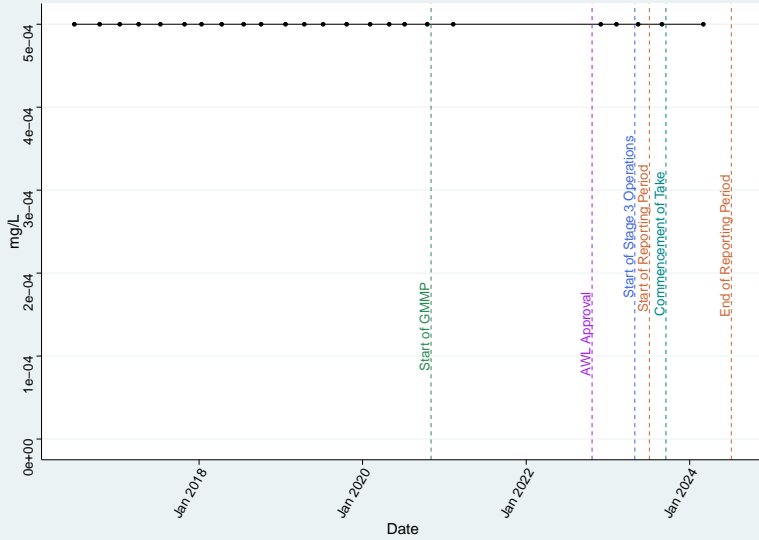
Bore GW06B (Acland Coal Sequence) – Al_diss
 Mann Kendall Trend Test | $\tau = -0.0354$ | $p\text{-value} = 0.872$ | No trend



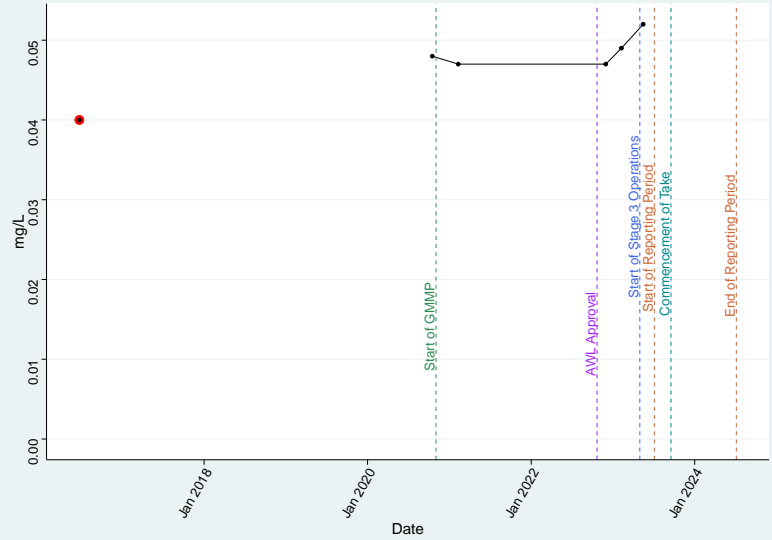
Bore GW06B (Acland Coal Sequence) – Ammonia as N
 Mann Kendall Trend Test | $\tau = 0.293$ | $p\text{-value} = 0.448$ | No trend



Bore GW06B (Acland Coal Sequence) – As_diss
 Mann Kendall Trend Test | $\tau = 1$ | $p\text{-value} = 1$ | No trend

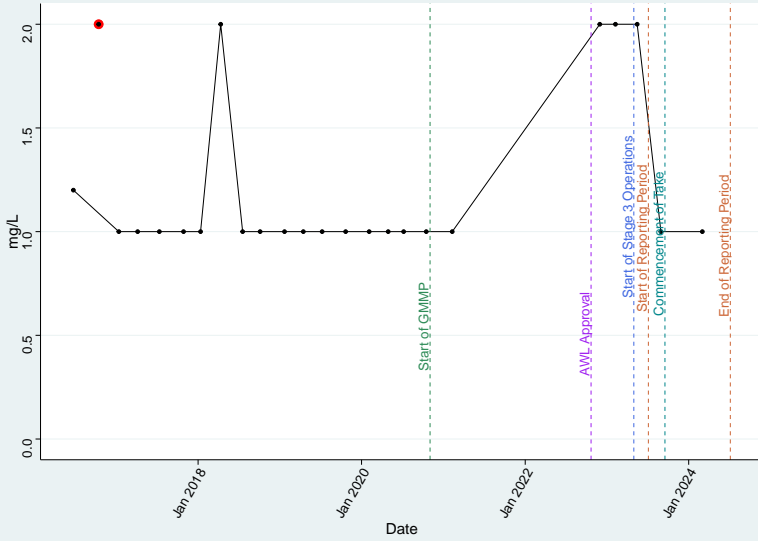


Bore GW06B (Acland Coal Sequence) – Ba_diss
 Mann Kendall Trend Test | $\tau = 0.69$ | $p\text{-value} = 0.0852$ | No trend



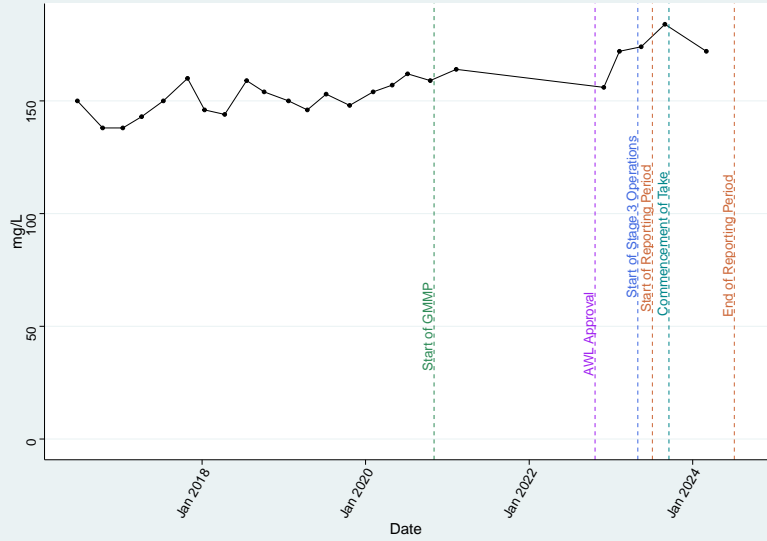
Bore GW06B (Acland Coal Sequence) – Ca

Mann Kendall Trend Test | $\tau = 0.017$ | $p\text{-value} = 0.947$ | No trend



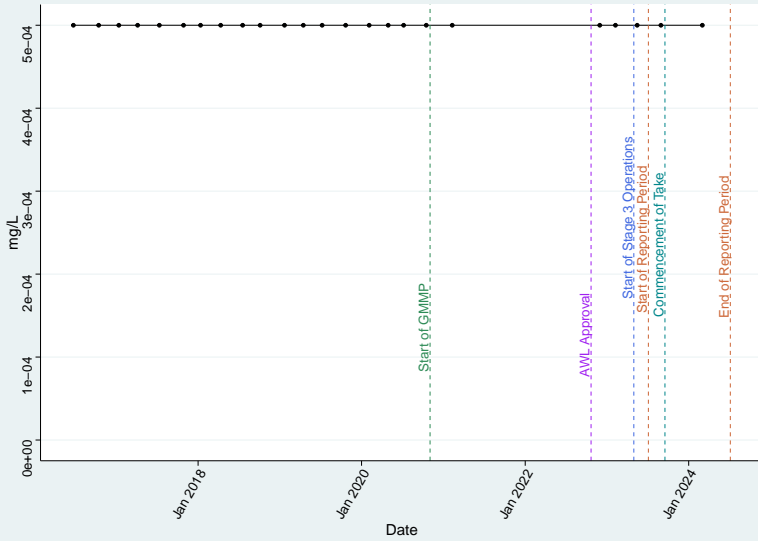
Bore GW06B (Acland Coal Sequence) – Cl

Mann Kendall Trend Test | $\tau = 0.647$ | $p\text{-value} = 0.0000135$ | Positive trend



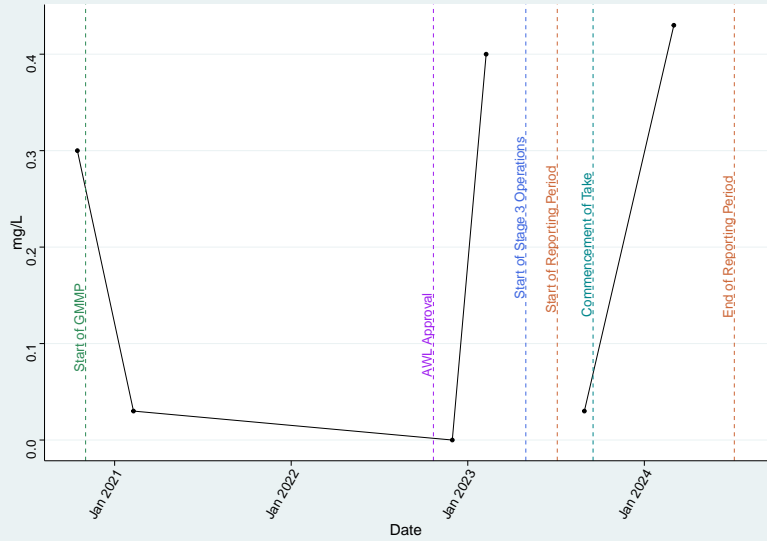
Bore GW06B (Acland Coal Sequence) – Cu_diss

Mann Kendall Trend Test | $\tau = 1$ | $p\text{-value} = 1$ | No trend



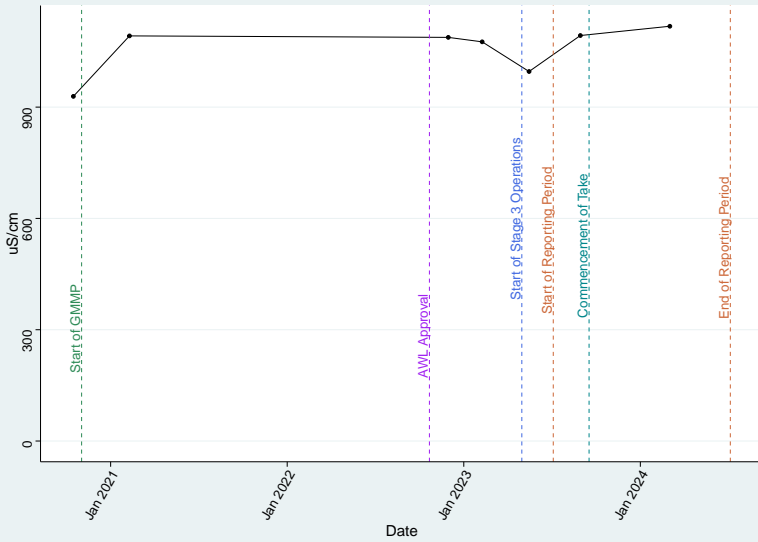
Bore GW06B (Acland Coal Sequence) – DO_Field

Mann Kendall Trend Test | $\tau = 0.0976$ | $p\text{-value} = 0.879$ | No trend



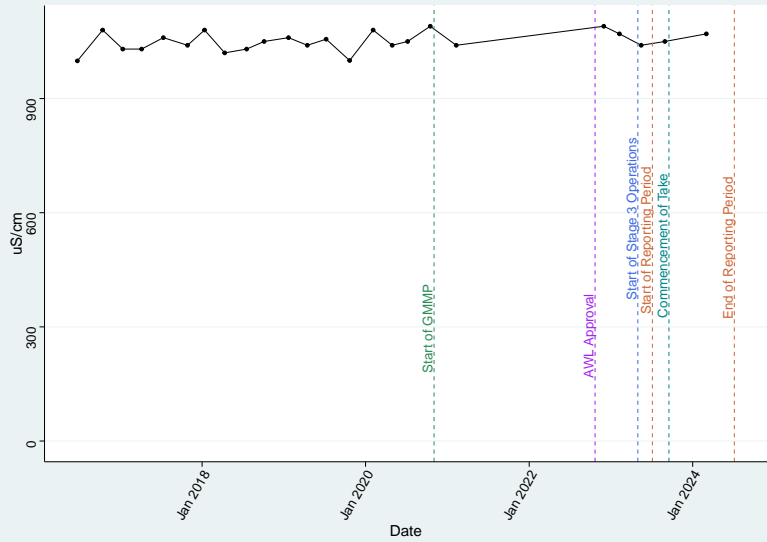
Bore GW06B (Acland Coal Sequence) – EC_Field

Mann Kendall Trend Test | $\tau = 0.429$ | $p\text{-value} = 0.23$ | No trend



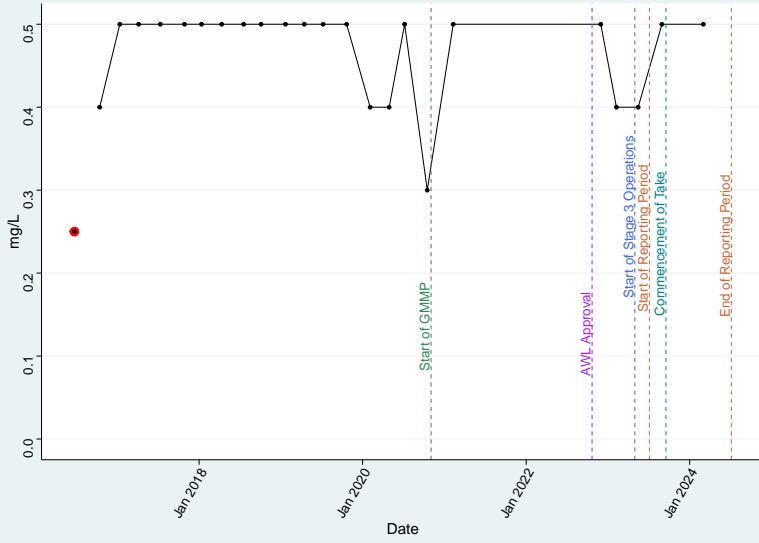
Bore GW06B (Acland Coal Sequence) – EC_Lab

Mann Kendall Trend Test | $\tau = 0.257$ | $p\text{-value} = 0.0934$ | No trend



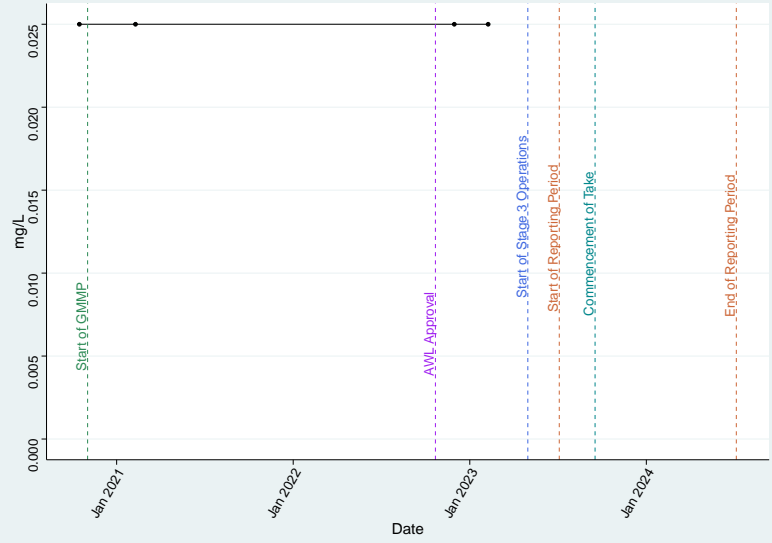
Bore GW06B (Acland Coal Sequence) – F

Mann Kendall Trend Test | $\tau = -0.0528$ | $p\text{-value} = 0.778$ | No trend



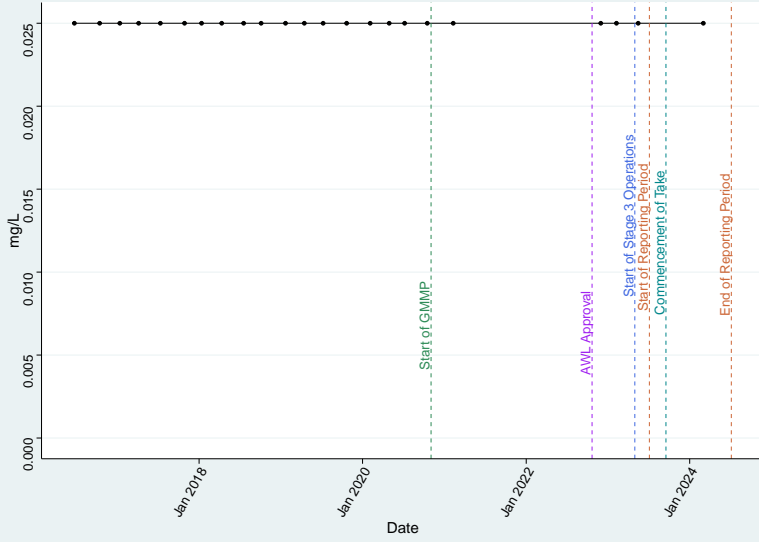
Bore GW06B (Acland Coal Sequence) – Fe2

Mann Kendall Trend Test | $\tau = 1$ | $p\text{-value} = 1$ | No trend



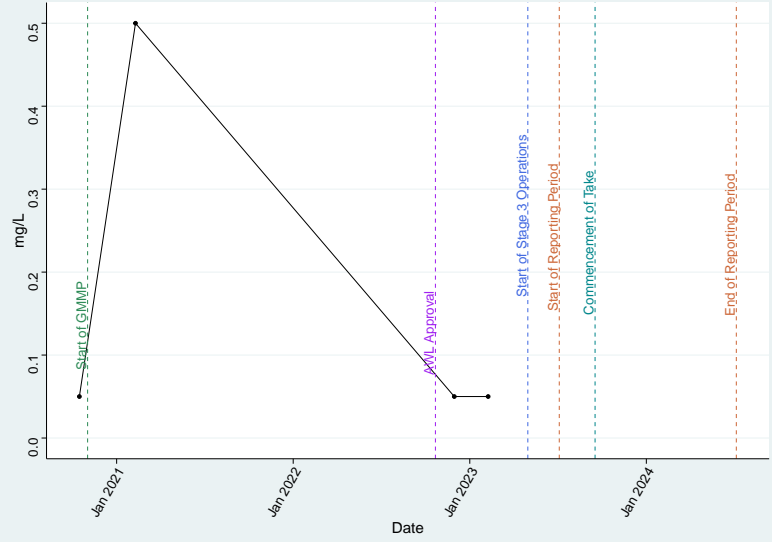
Bore GW06B (Acland Coal Sequence) – Fe_diss

Mann Kendall Trend Test | $\tau = 1$ | $p\text{-value} = 1$ | No trend



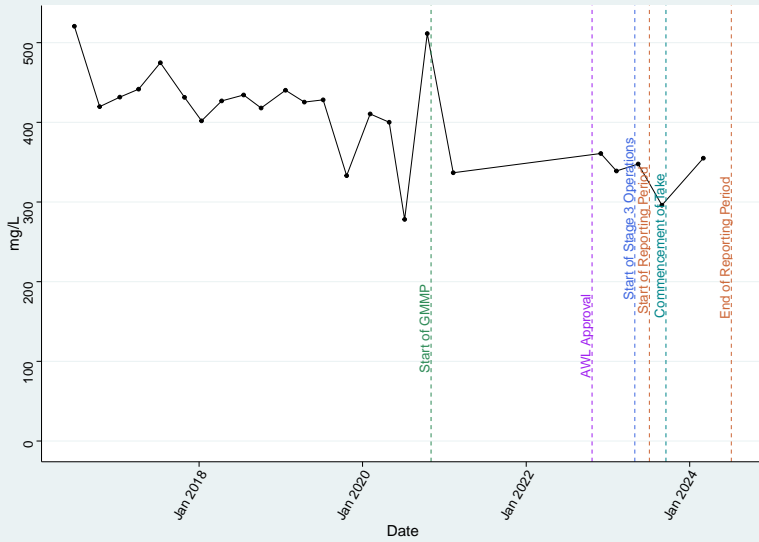
Bore GW06B (Acland Coal Sequence) – H2S

Mann Kendall Trend Test | $\tau = -0.236$ | $p\text{-value} = 1$ | No trend



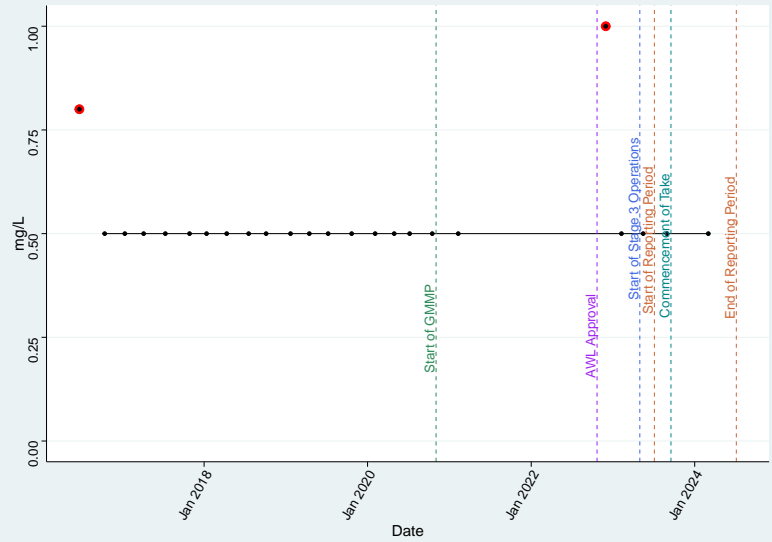
Bore GW06B (Acland Coal Sequence) – HCO3

Mann Kendall Trend Test | $\tau = -0.507$ | $p\text{-value} = 0.000565$ | Negative trend



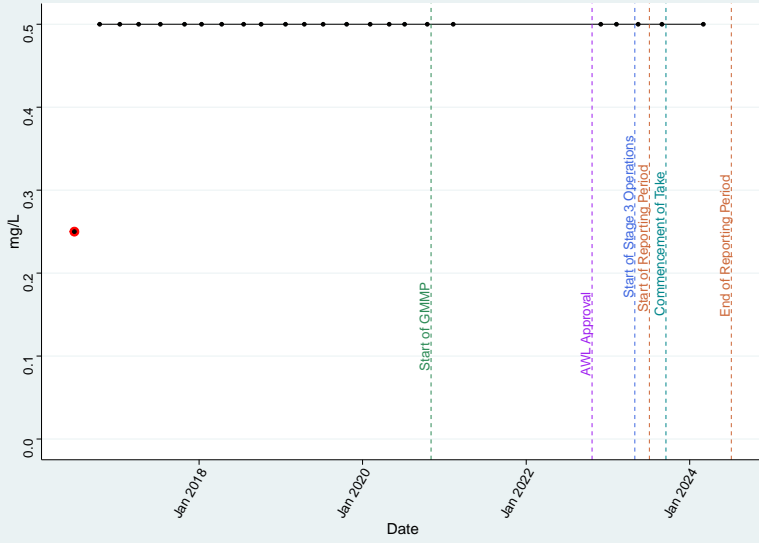
Bore GW06B (Acland Coal Sequence) – K

Mann Kendall Trend Test | $\tau = -0.0628$ | $p\text{-value} = 0.754$ | No trend



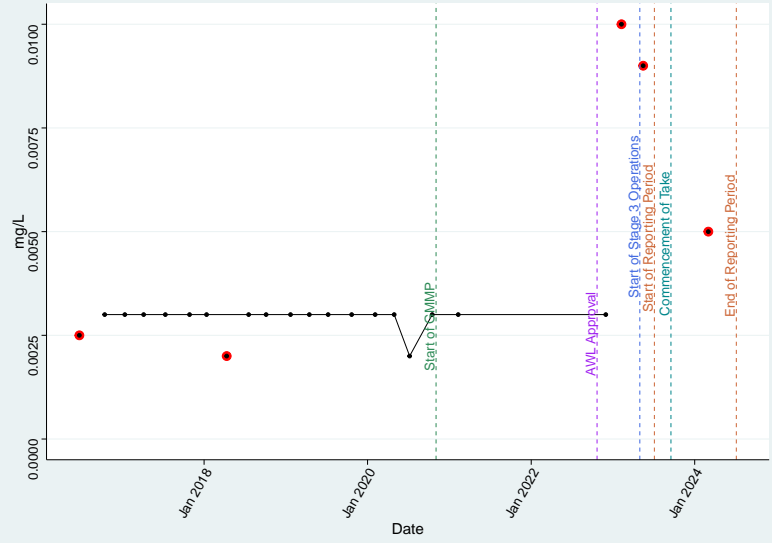
Bore GW06B (Acland Coal Sequence) – Mg

Mann Kendall Trend Test | $\tau = 0.289$ | p-value = 0.112 | No trend



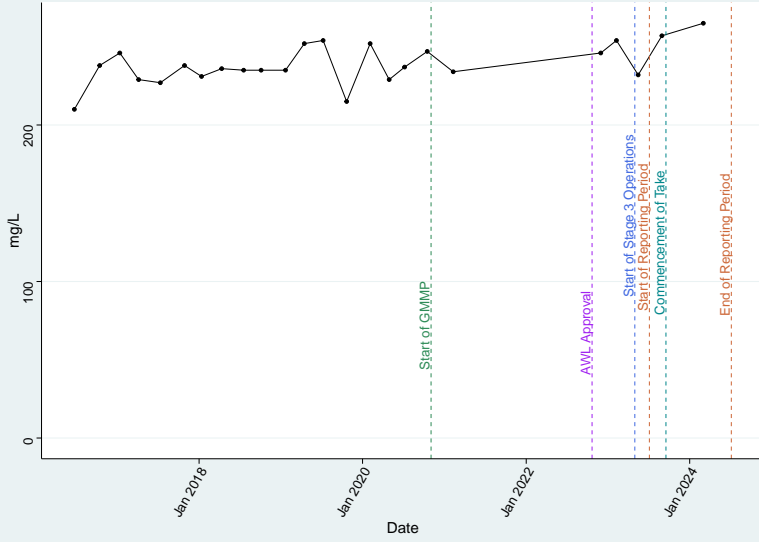
Bore GW06B (Acland Coal Sequence) – Mn_diss

Mann Kendall Trend Test | $\tau = 0.385$ | p-value = 0.0252 | Positive trend



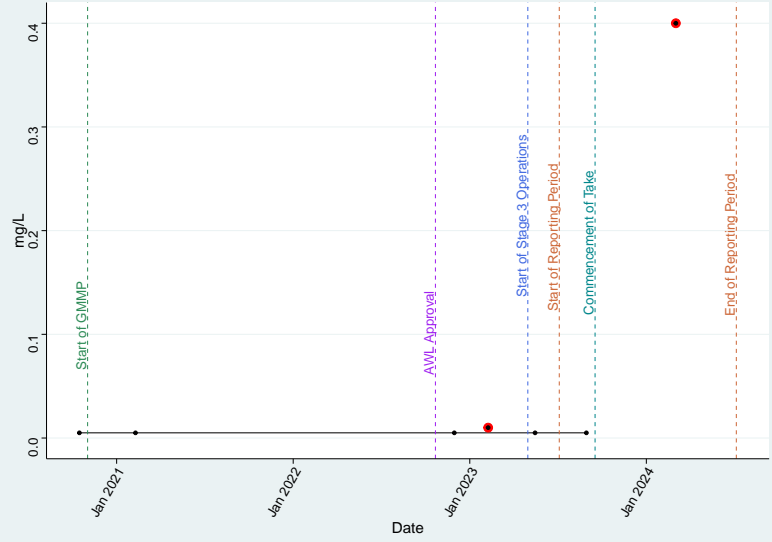
Bore GW06B (Acland Coal Sequence) – Na

Mann Kendall Trend Test | $\tau = 0.338$ | p-value = 0.0236 | Positive trend



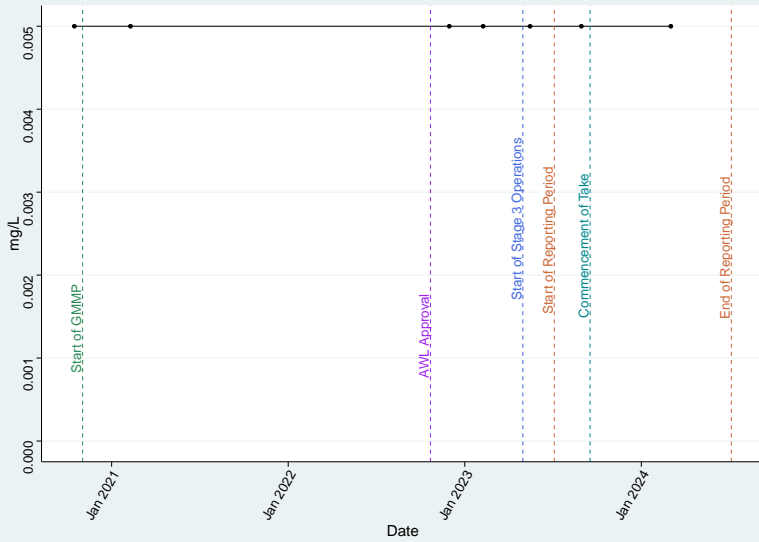
Bore GW06B (Acland Coal Sequence) – Nitrate as N

Mann Kendall Trend Test | $\tau = 0.461$ | p-value = 0.254 | No trend



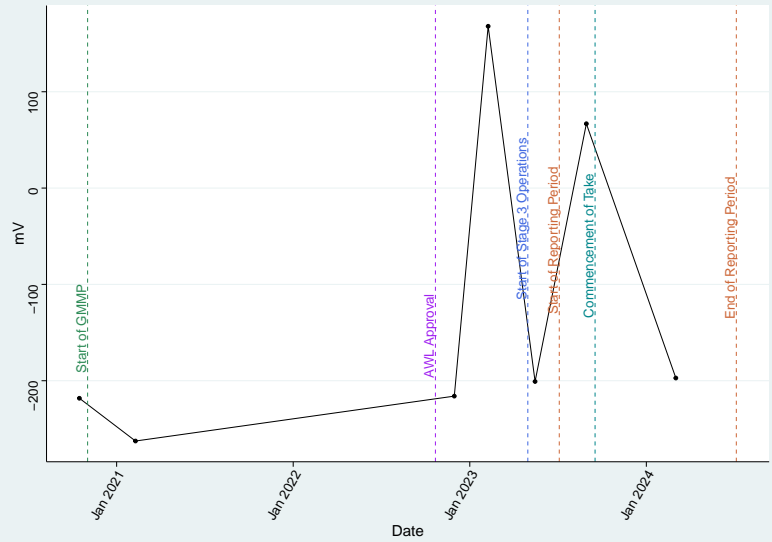
Bore GW06B (Acland Coal Sequence) – Nitrite as N

Mann Kendall Trend Test | $\tau = 1$ | p-value = 1 | No trend



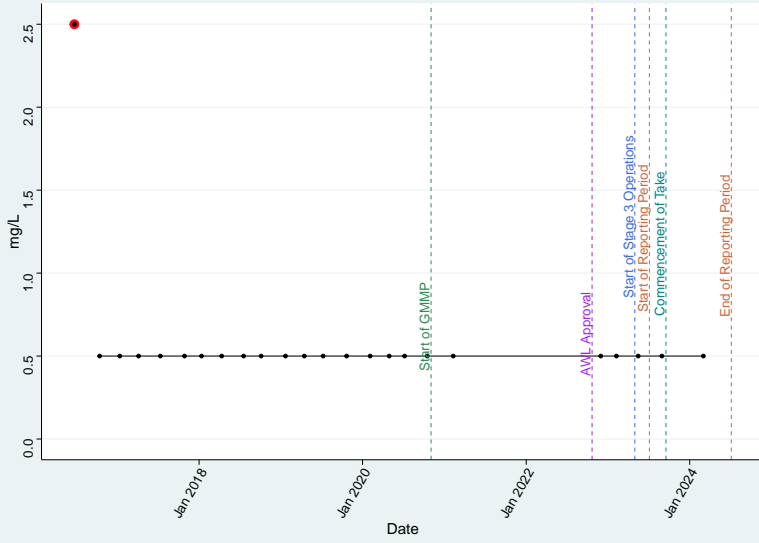
Bore GW06B (Acland Coal Sequence) – Redox_Field

Mann Kendall Trend Test | $\tau = 0.524$ | p-value = 0.133 | No trend



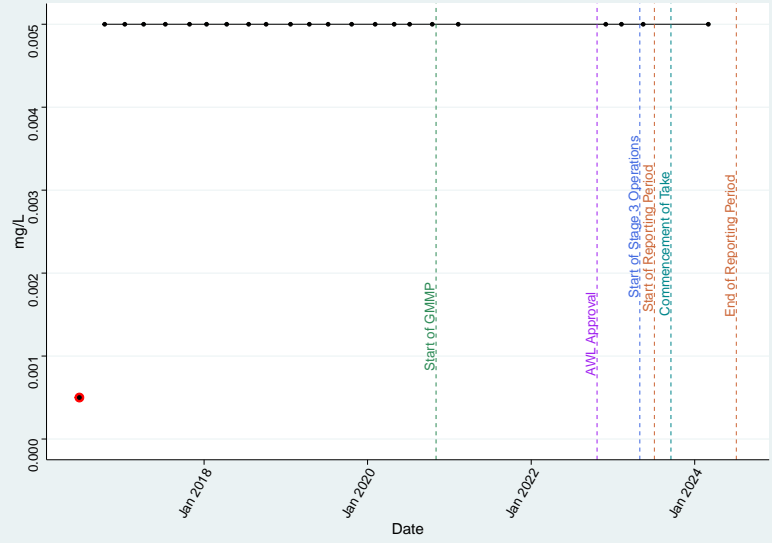
Bore GW06B (Acland Coal Sequence) – SO4

Mann Kendall Trend Test | $\tau = -0.289$ | $p\text{-value} = 0.112$ | No trend



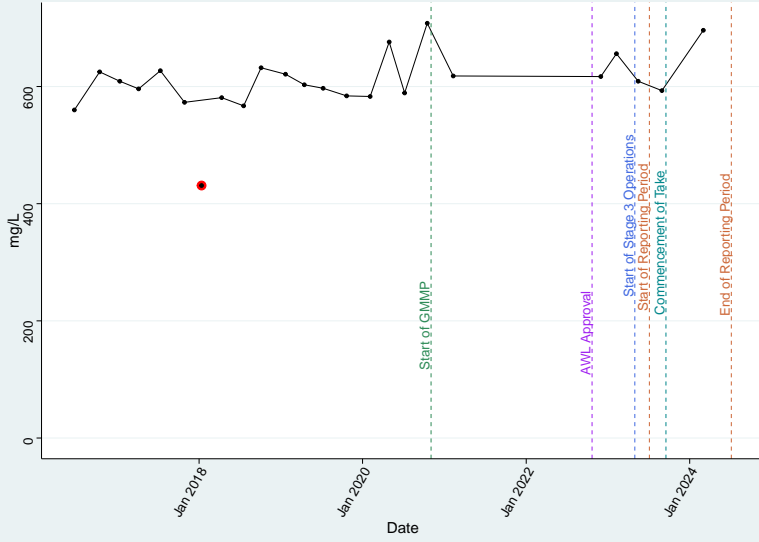
Bore GW06B (Acland Coal Sequence) – Se_diss

Mann Kendall Trend Test | $\tau = 0.295$ | $p\text{-value} = 0.113$ | No trend



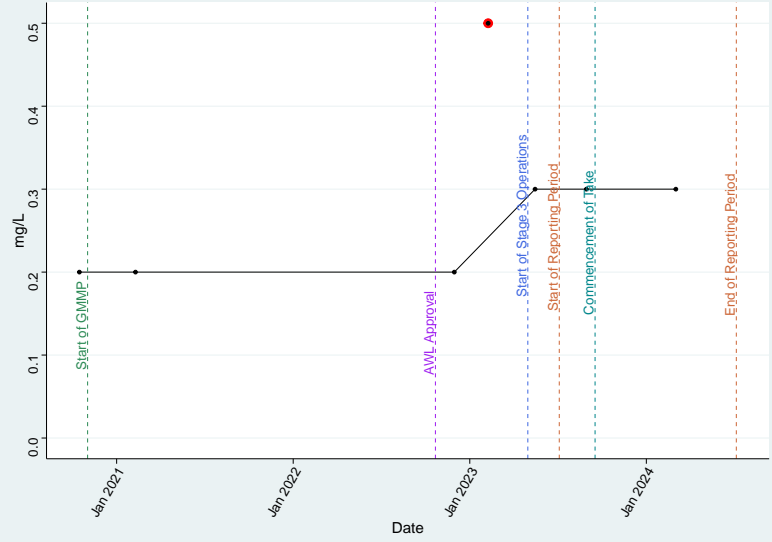
Bore GW06B (Acland Coal Sequence) – TDS

Mann Kendall Trend Test | $\tau = 0.258$ | $p\text{-value} = 0.0824$ | No trend



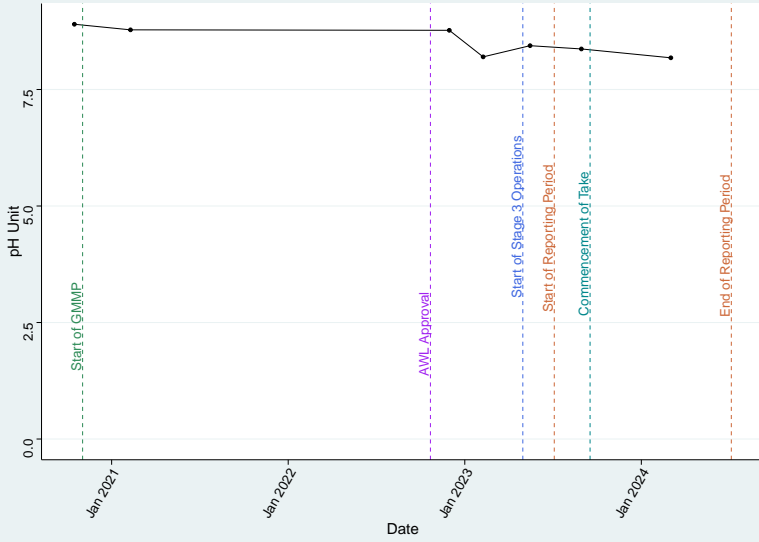
Bore GW06B (Acland Coal Sequence) – TKN

Mann Kendall Trend Test | $\tau = 0.507$ | $p\text{-value} = 0.188$ | No trend



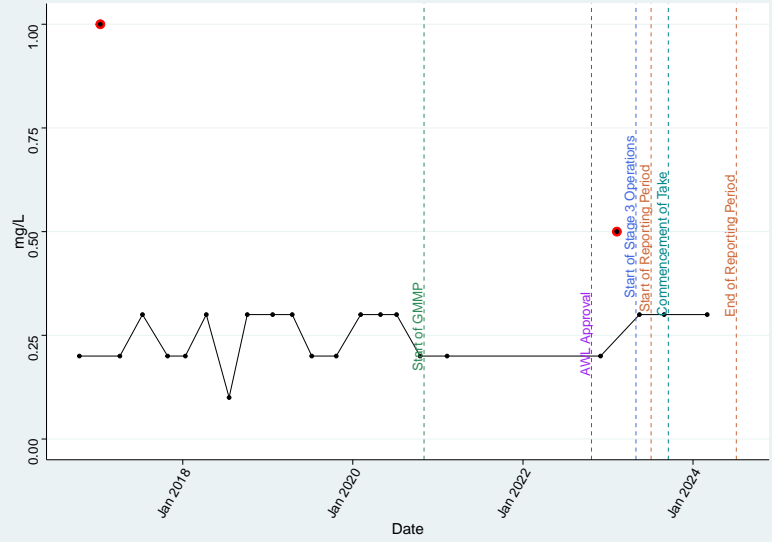
Bore GW06B (Acland Coal Sequence) – pH_Field

Mann Kendall Trend Test | $\tau = -0.81$ | $p\text{-value} = 0.0163$ | Negative trend



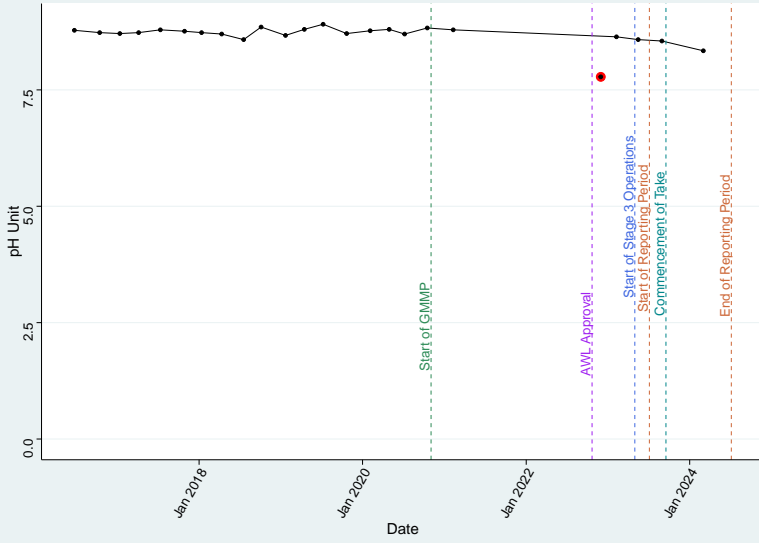
Bore GW06B (Acland Coal Sequence) – Total_N

Mann Kendall Trend Test | $\tau = 0.148$ | $p\text{-value} = 0.398$ | No trend



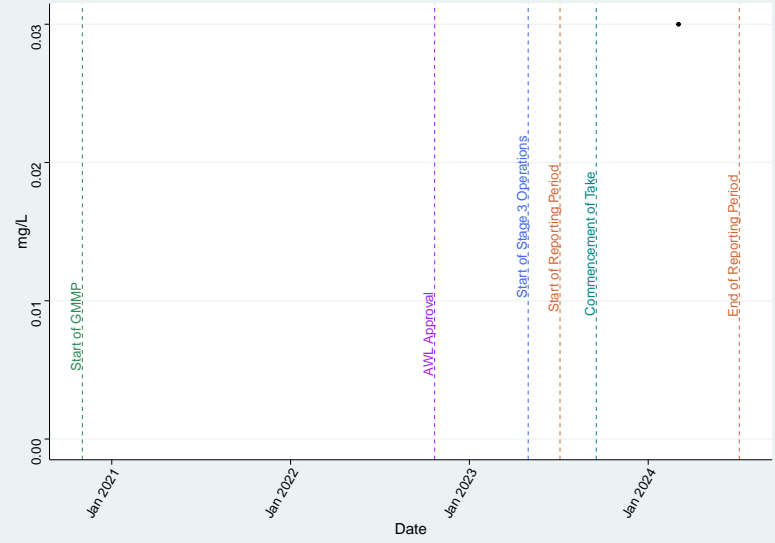
Bore GW06B (Acland Coal Sequence) – pH_Lab

Mann Kendall Trend Test | $\tau = -0.257$ | $p\text{-value} = 0.0861$ | No trend



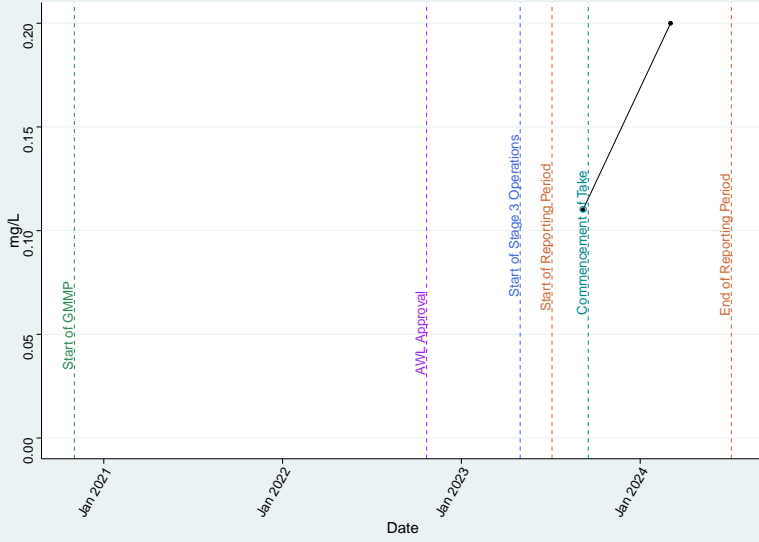
Bore GW07BR (Balgowan Coal Sequence) – Al_diss

Mann Kendall Trend Test | $\tau =$ Not enough data | $p\text{-value} =$ Not enough data | Not evaluated



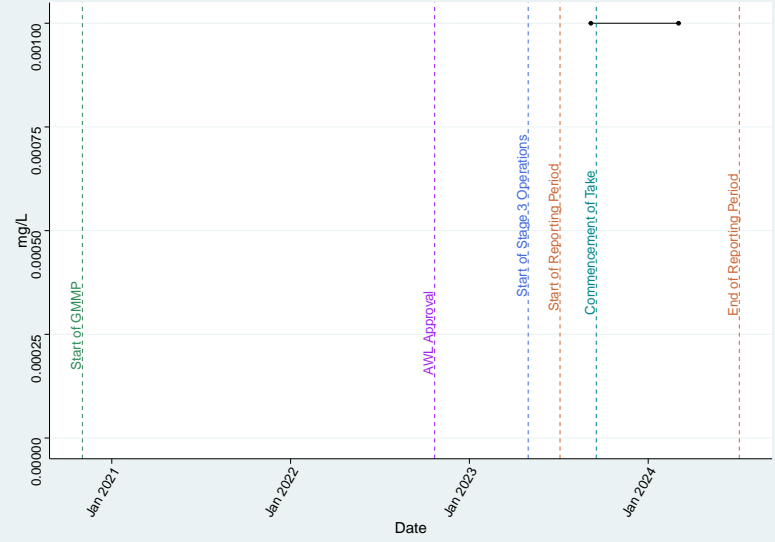
Bore GW07BR (Balgowan Coal Sequence) – Ammonia as N

Mann Kendall Trend Test | $\tau =$ Not enough data | $p\text{-value} =$ Not enough data | Not evaluated



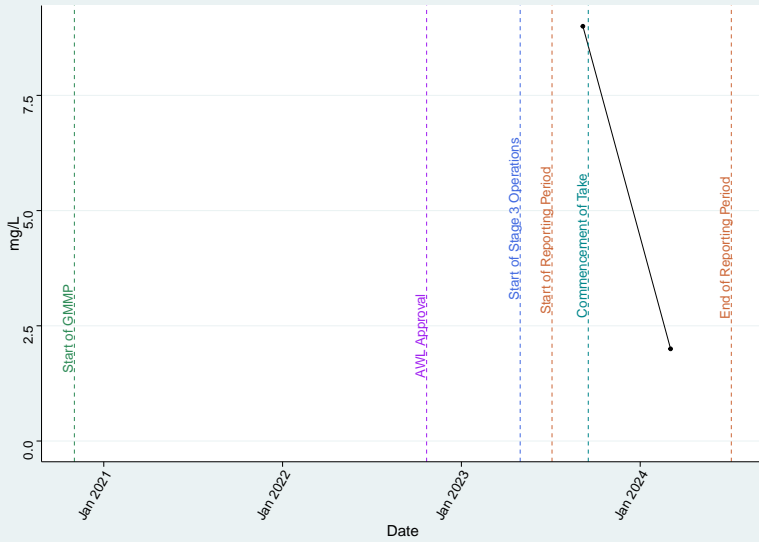
Bore GW07BR (Balgowan Coal Sequence) – As_diss

Mann Kendall Trend Test | $\tau =$ Not enough data | $p\text{-value} =$ Not enough data | Not evaluated



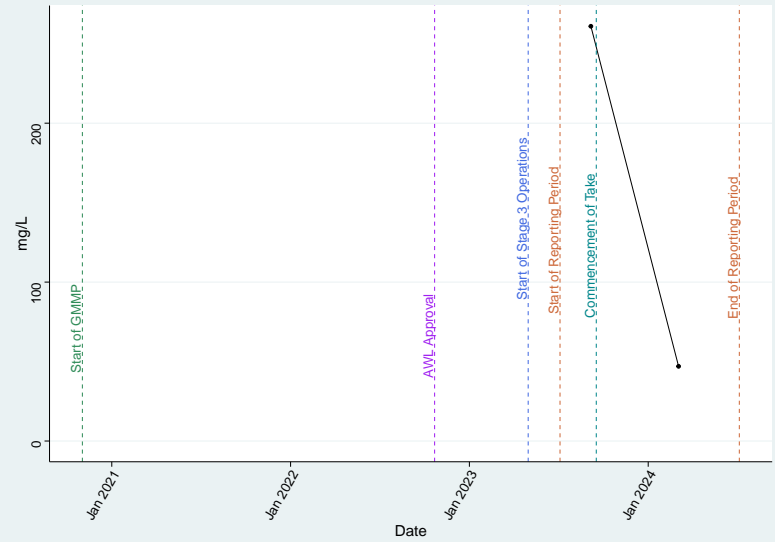
Bore GW07BR (Balgowan Coal Sequence) – Ca

Mann Kendall Trend Test | $\tau =$ Not enough data | $p\text{-value} =$ Not enough data | Not evaluated



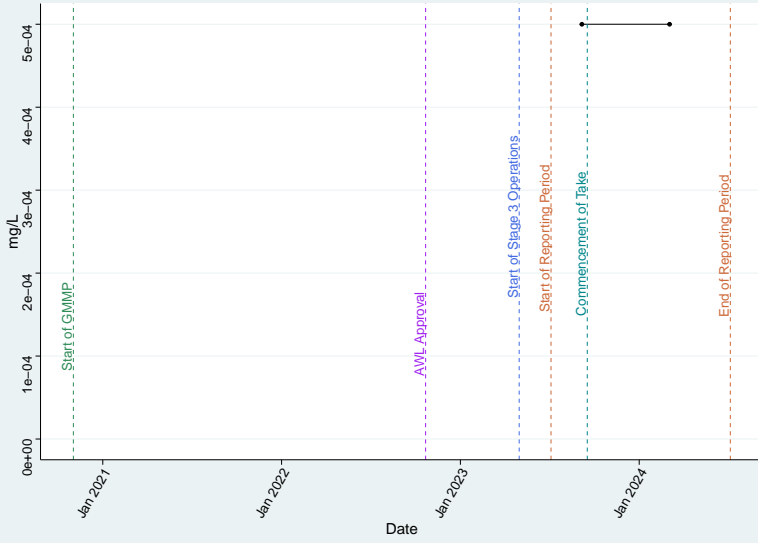
Bore GW07BR (Balgowan Coal Sequence) – Cl

Mann Kendall Trend Test | $\tau =$ Not enough data | $p\text{-value} =$ Not enough data | Not evaluated



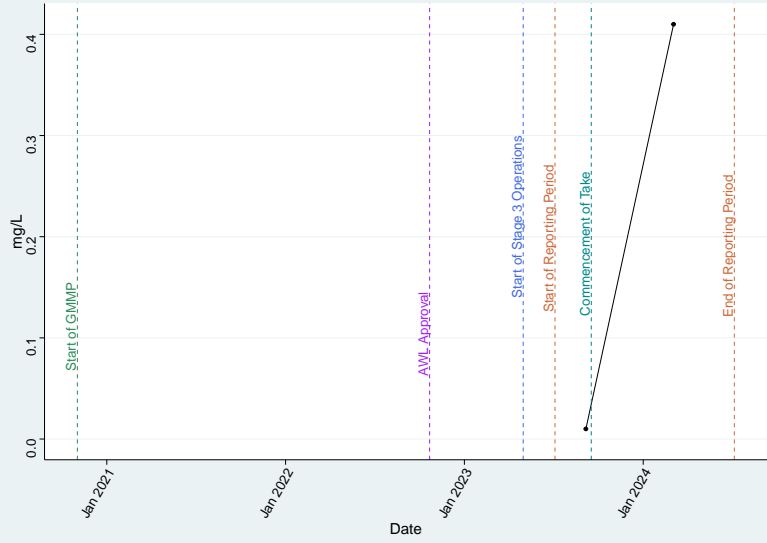
Bore GW07BR (Balgowan Coal Sequence) – Cu_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



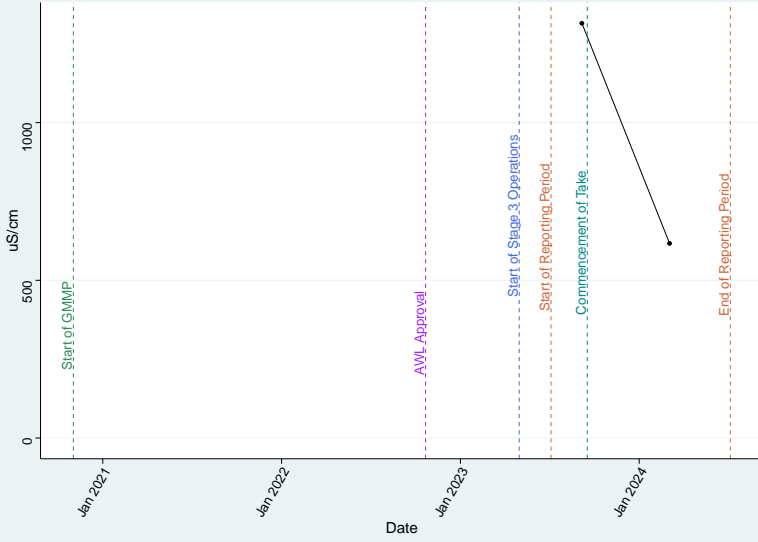
Bore GW07BR (Balgowan Coal Sequence) – DO_Field

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



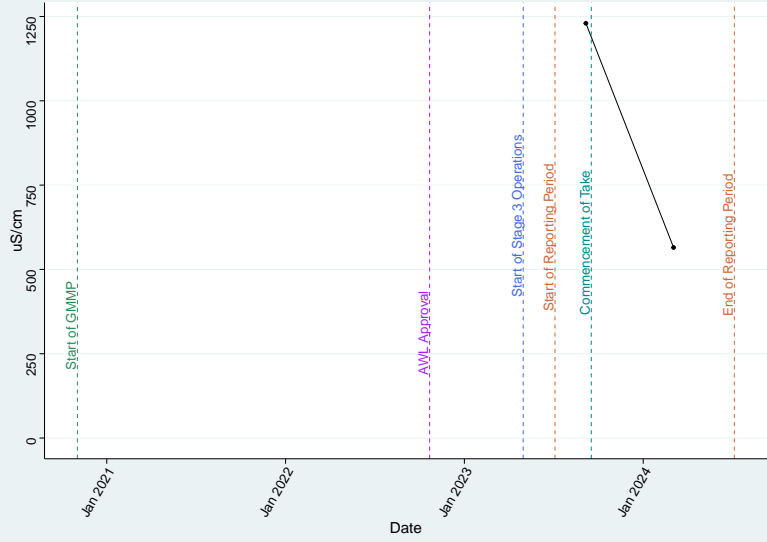
Bore GW07BR (Balgowan Coal Sequence) – EC_Field

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



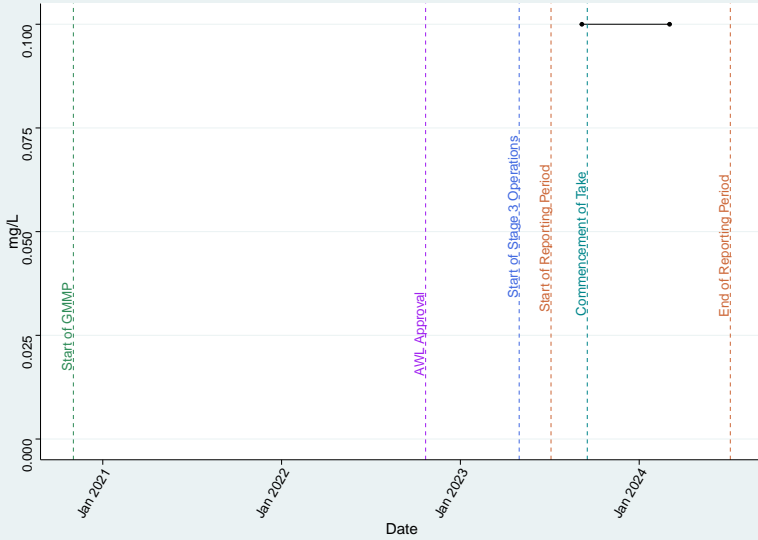
Bore GW07BR (Balgowan Coal Sequence) – EC_Lab

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



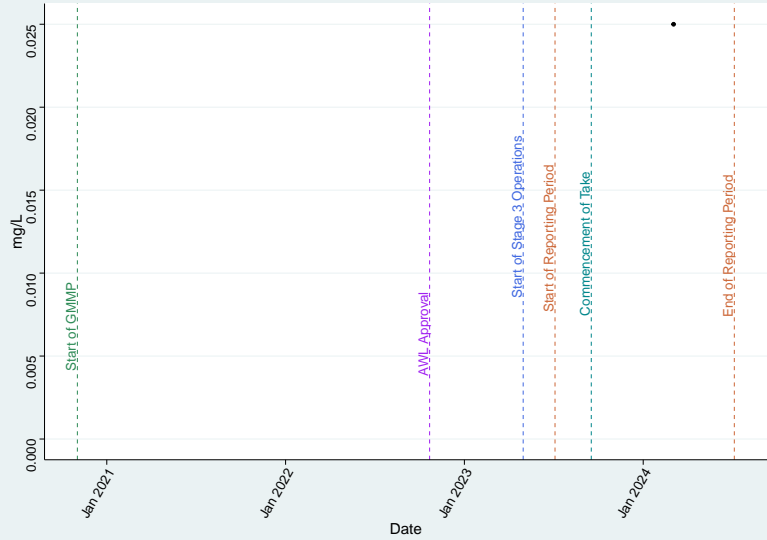
Bore GW07BR (Balgowan Coal Sequence) – F

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



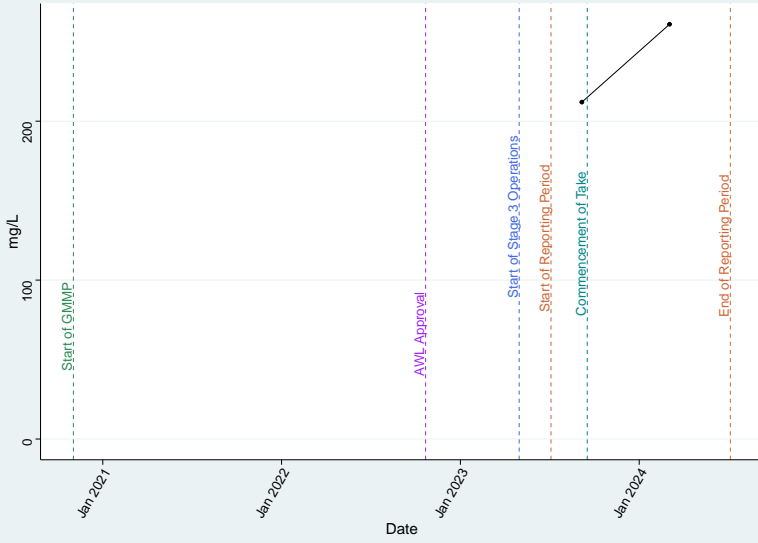
Bore GW07BR (Balgowan Coal Sequence) – Fe_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



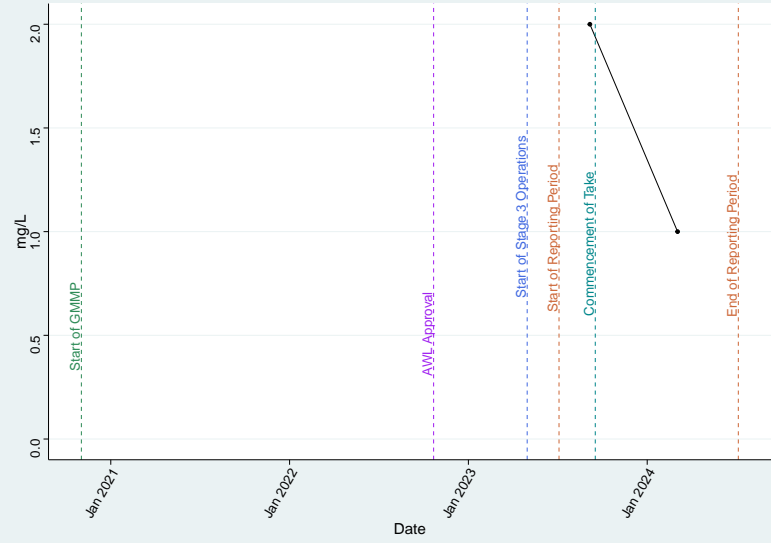
Bore GW07BR (Balgowan Coal Sequence) – HCO3

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



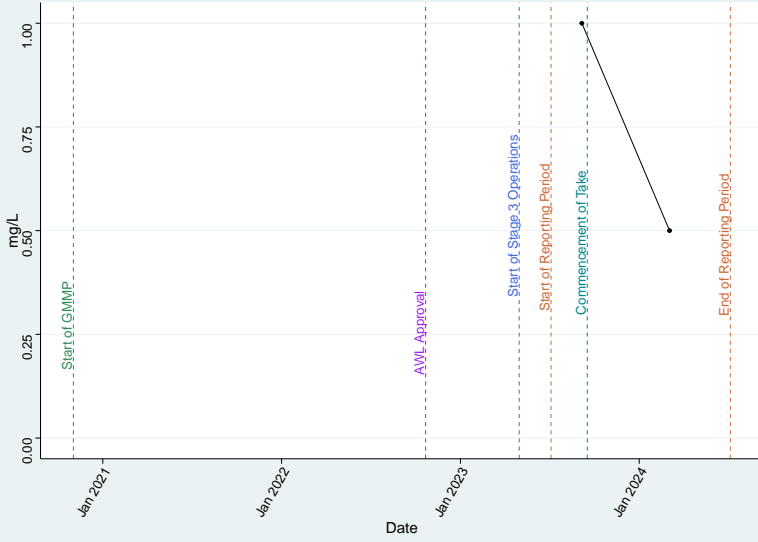
Bore GW07BR (Balgowan Coal Sequence) – K

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



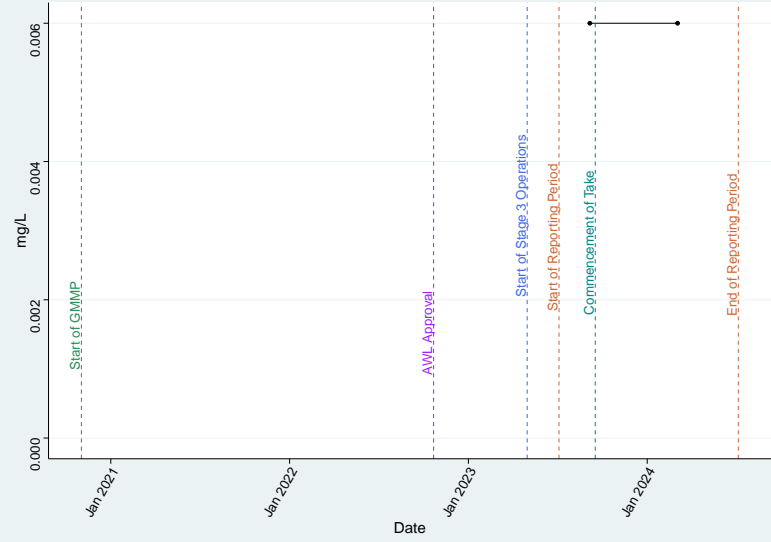
Bore GW07BR (Balgowan Coal Sequence) – Mg

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



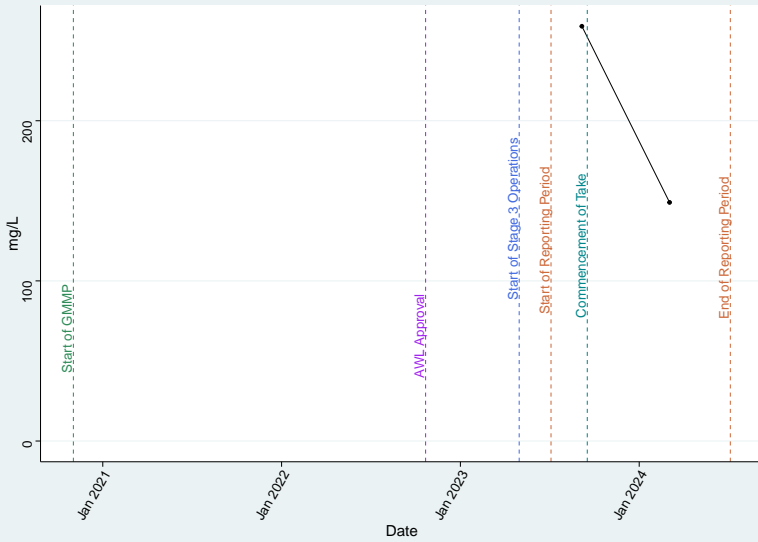
Bore GW07BR (Balgowan Coal Sequence) – Mn_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



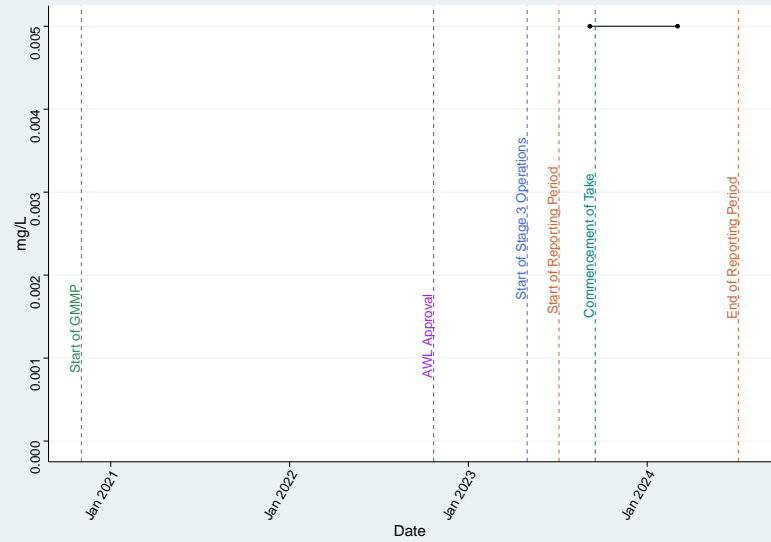
Bore GW07BR (Balgowan Coal Sequence) – Na

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



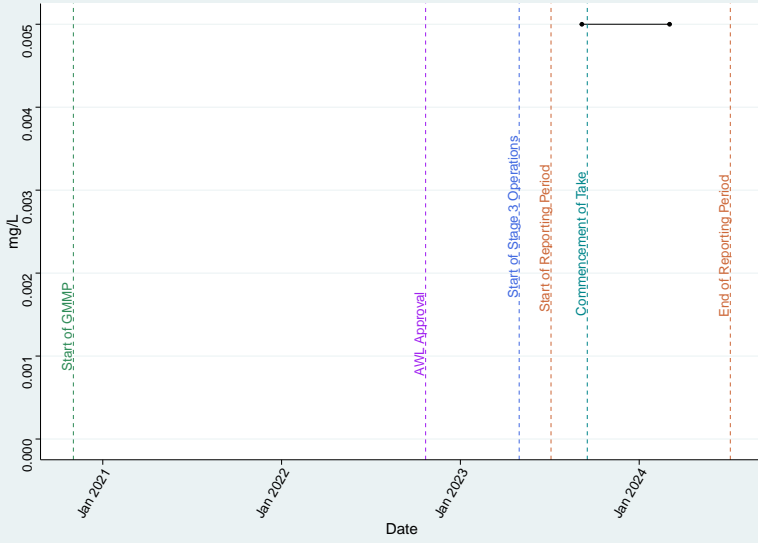
Bore GW07BR (Balgowan Coal Sequence) – Nitrate as N

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



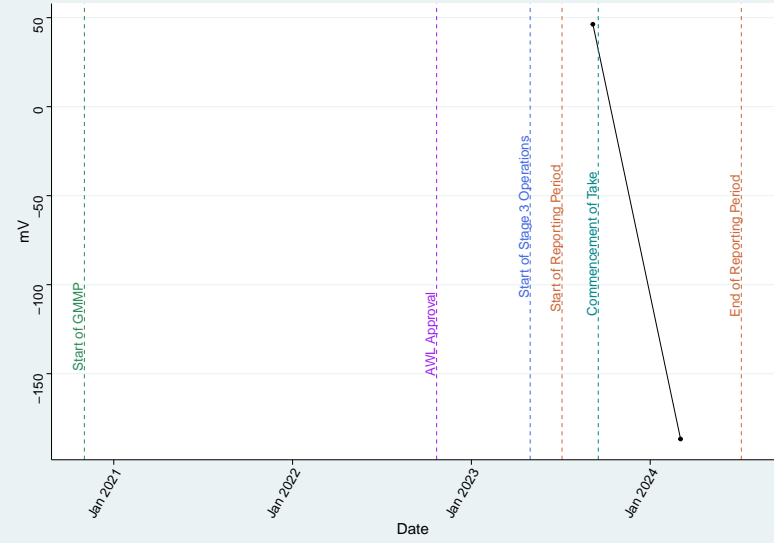
Bore GW07BR (Balgowan Coal Sequence) – Nitrite as N

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



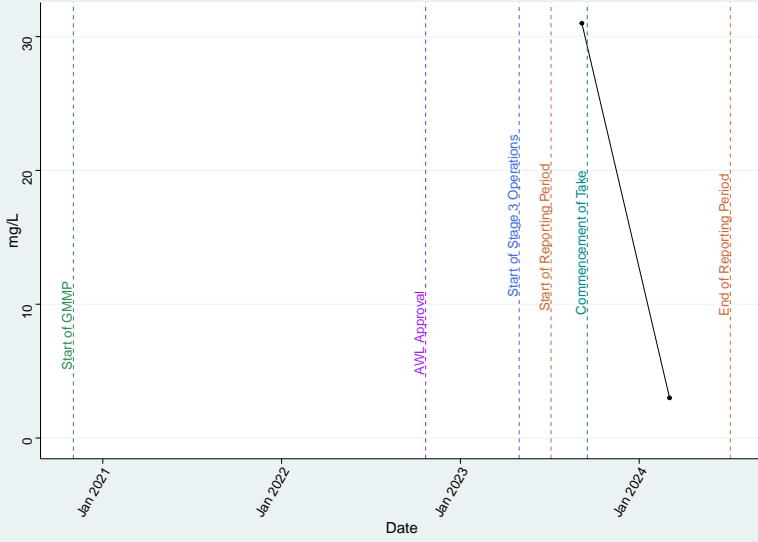
Bore GW07BR (Balgowan Coal Sequence) – Redox_Field

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



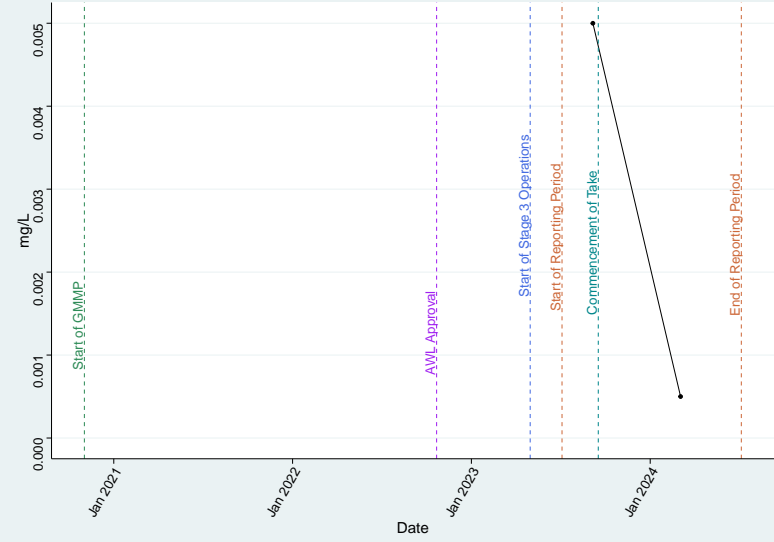
Bore GW07BR (Balgowan Coal Sequence) – SO4

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



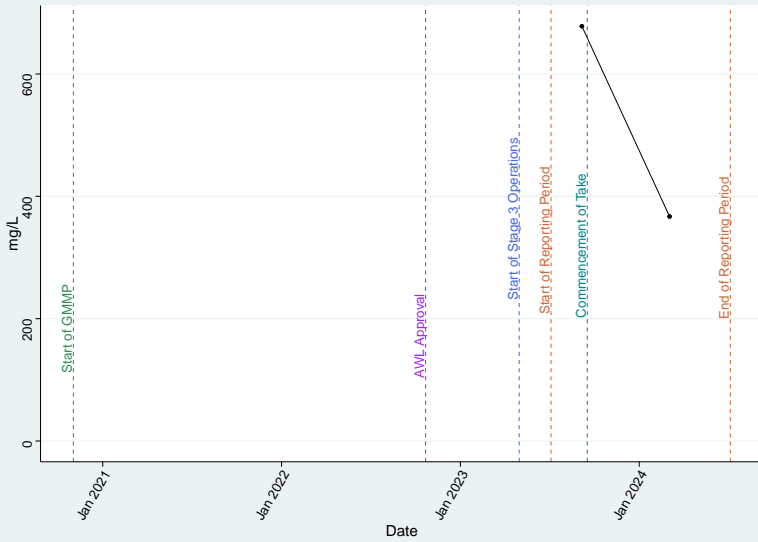
Bore GW07BR (Balgowan Coal Sequence) – Se_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



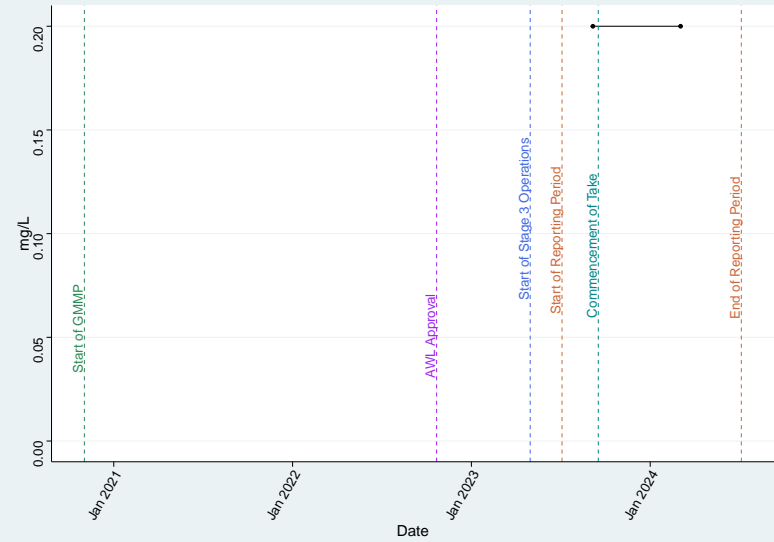
Bore GW07BR (Balgowan Coal Sequence) – TDS

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



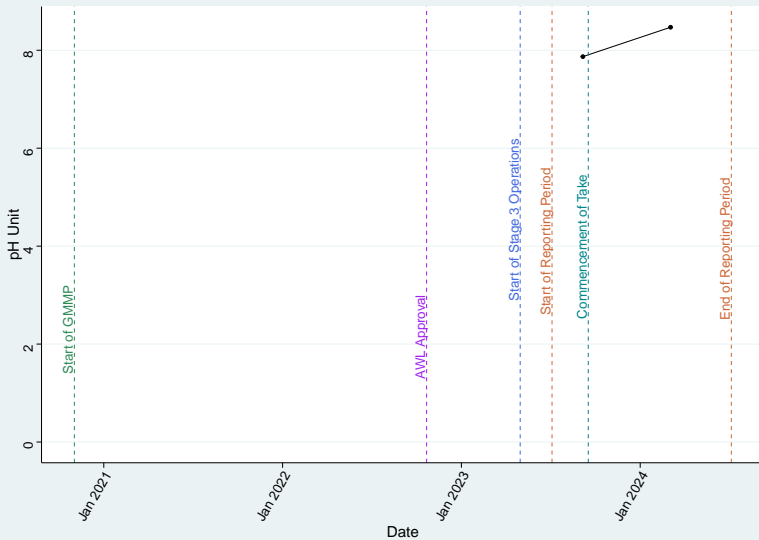
Bore GW07BR (Balgowan Coal Sequence) – TKN

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



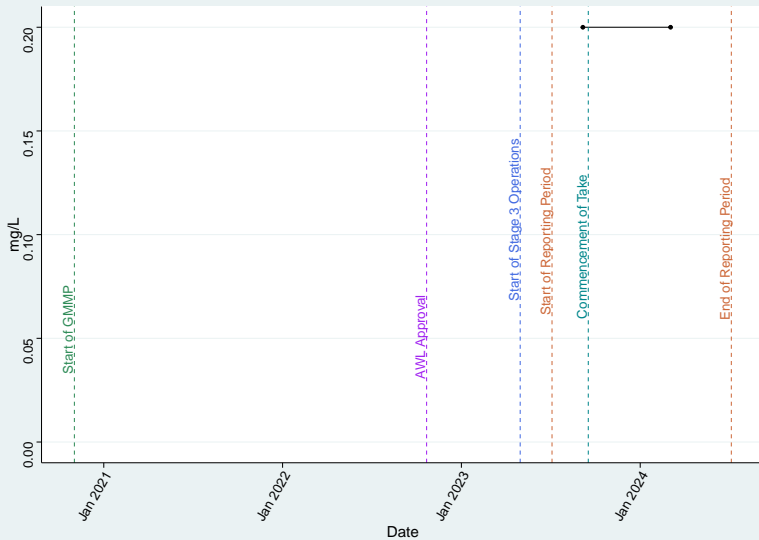
Bore GW07BR (Balgowan Coal Sequence) – pH_Field

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



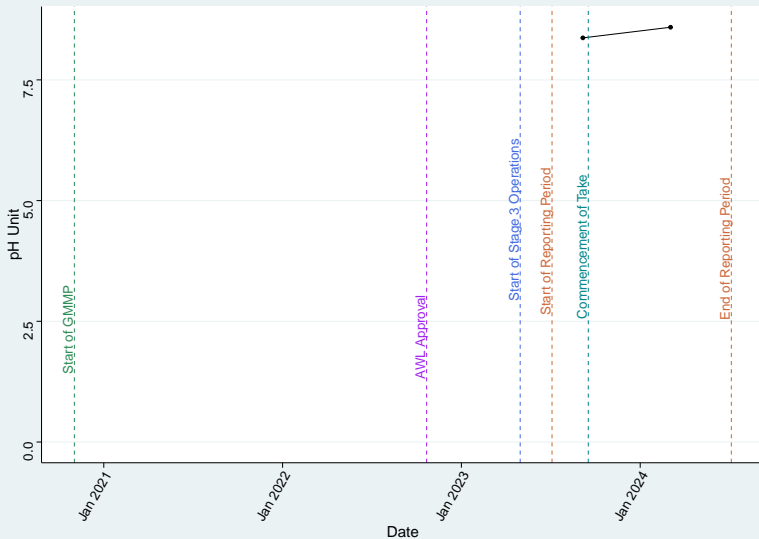
Bore GW07BR (Balgowan Coal Sequence) – Total_N

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



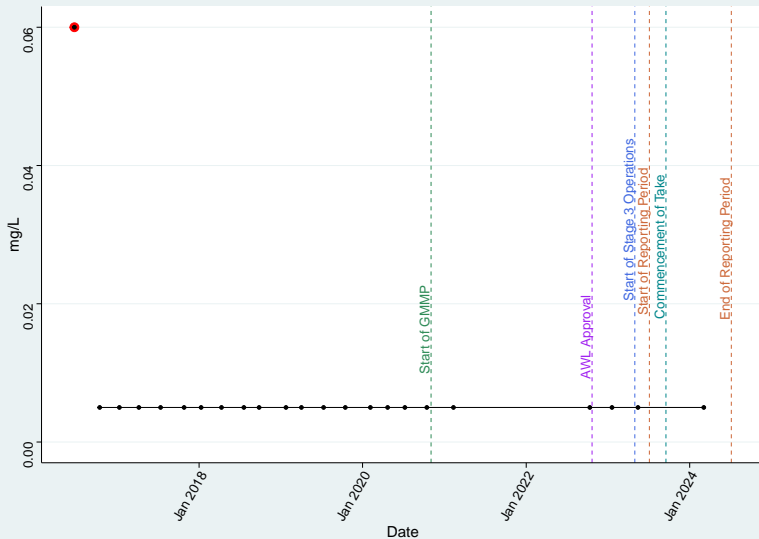
Bore GW07BR (Balgowan Coal Sequence) – pH_Lab

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



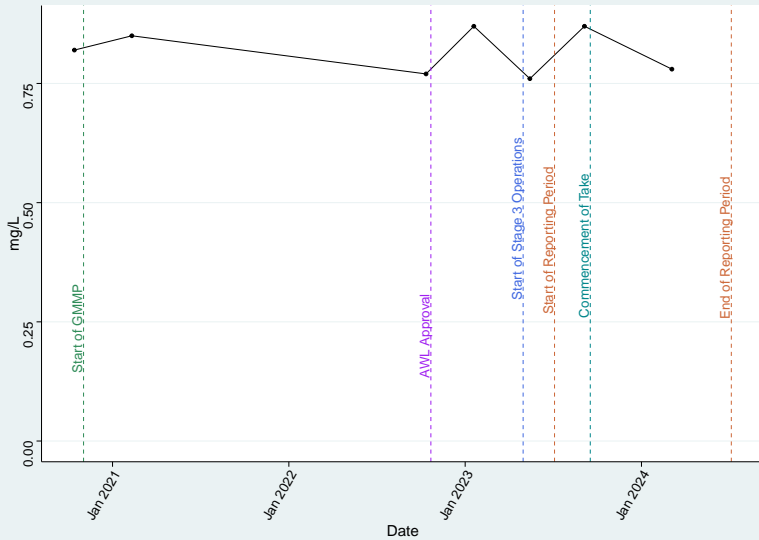
Bore GW10 (Acland Coal Sequence) – Al_diss

Mann Kendall Trend Test | τ = -0.295 | p-value = 0.113 | No trend



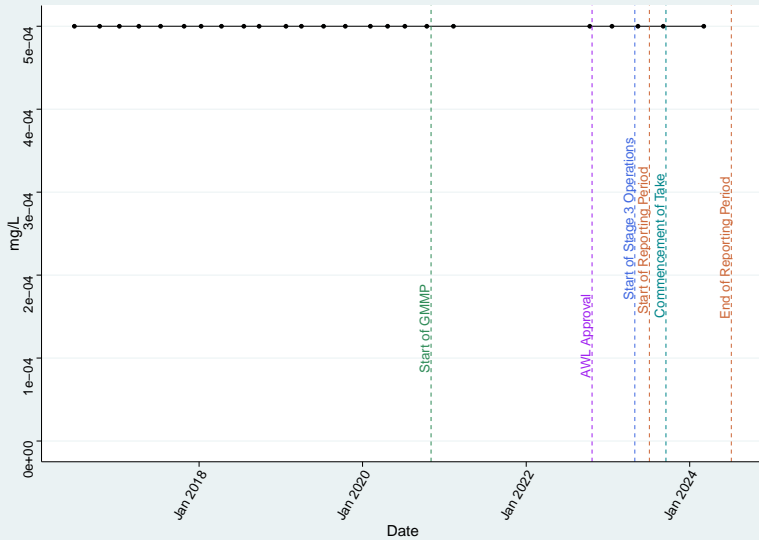
Bore GW10 (Acland Coal Sequence) – Ammonia as N

Mann Kendall Trend Test | τ = 0 | p-value = 1 | No trend

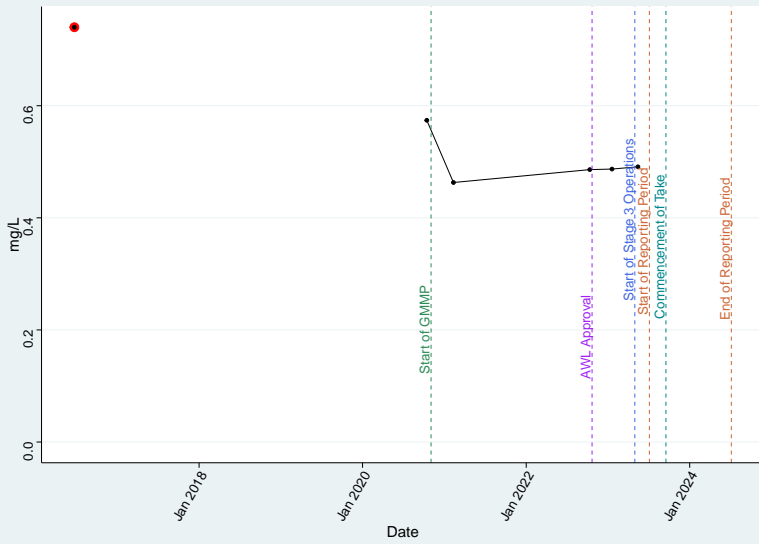


Bore GW10 (Acland Coal Sequence) – As_diss

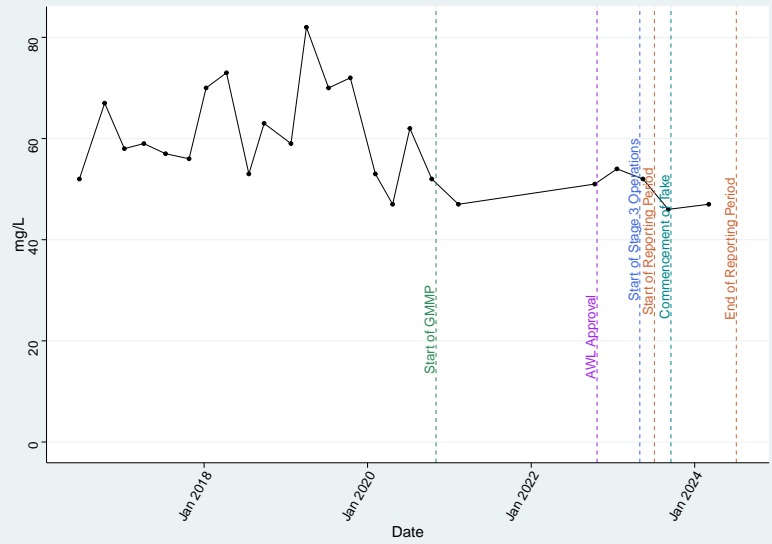
Mann Kendall Trend Test | τ = 1 | p-value = 1 | No trend



Bore GW10 (Acland Coal Sequence) – Ba_diss
Mann Kendall Trend Test | $\tau = -0.2$ | p-value = 0.707 | No trend

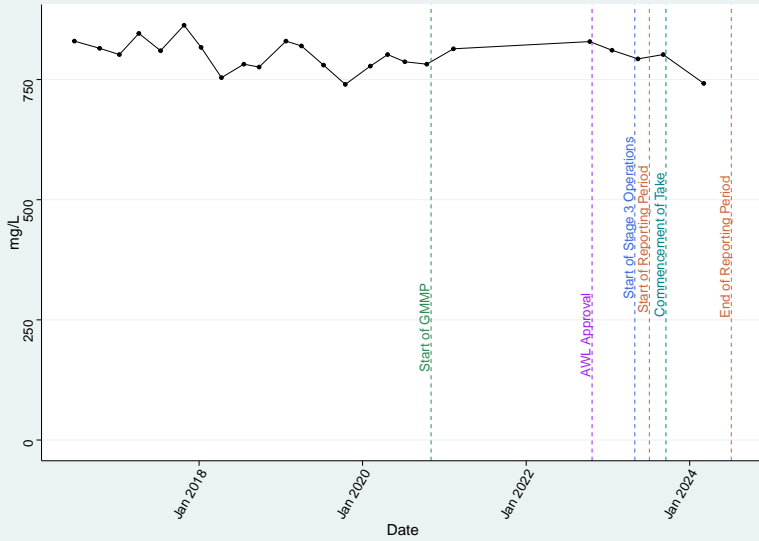


Bore GW10 (Acland Coal Sequence) – Ca
Mann Kendall Trend Test | $\tau = -0.35$ | p-value = 0.0193 | Negative trend



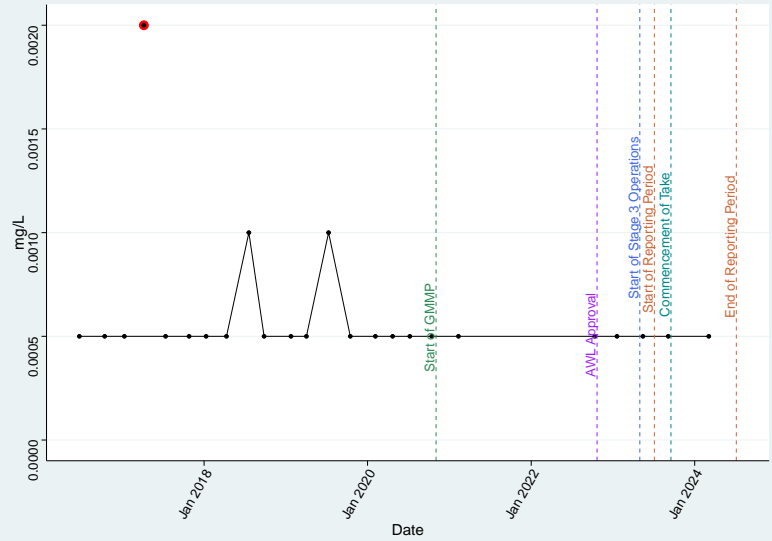
Bore GW10 (Acland Coal Sequence) – Cl

Mann Kendall Trend Test | $\tau = -0.223$ | p-value = 0.136 | No trend



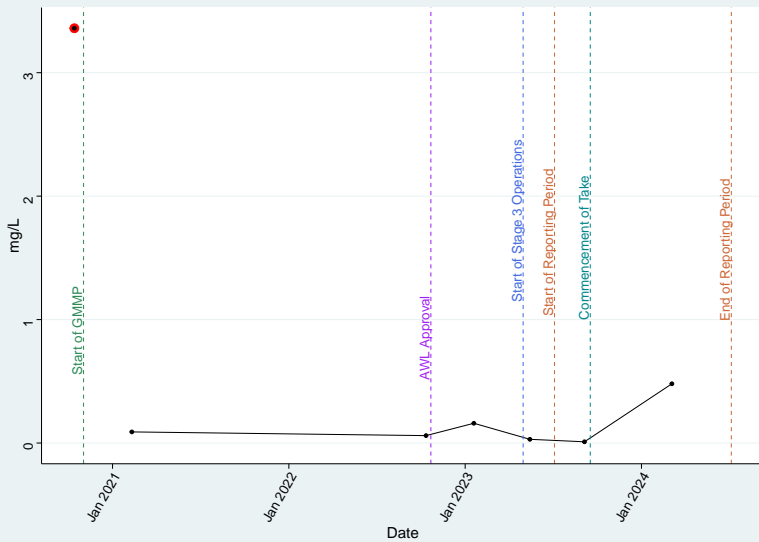
Bore GW10 (Acland Coal Sequence) – Cu_diss

Mann Kendall Trend Test | $\tau = -0.187$ | p-value = 0.296 | No trend



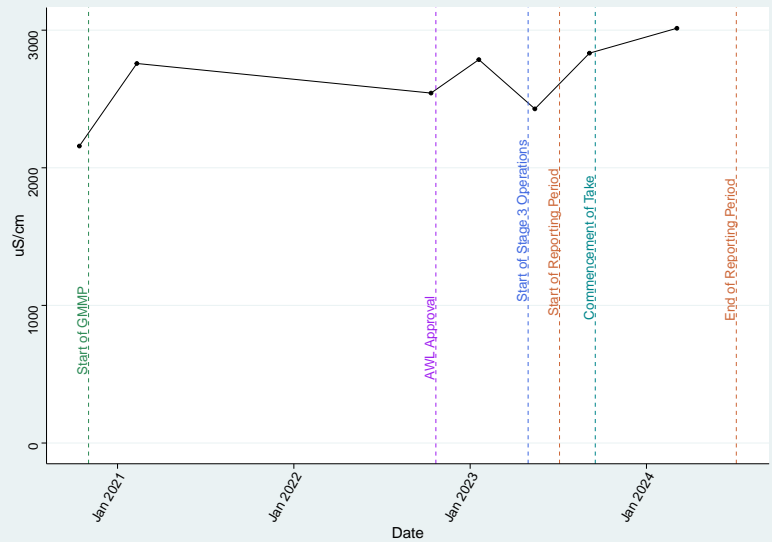
Bore GW10 (Acland Coal Sequence) – DO_Field

Mann Kendall Trend Test | $\tau = -0.333$ | p-value = 0.368 | No trend



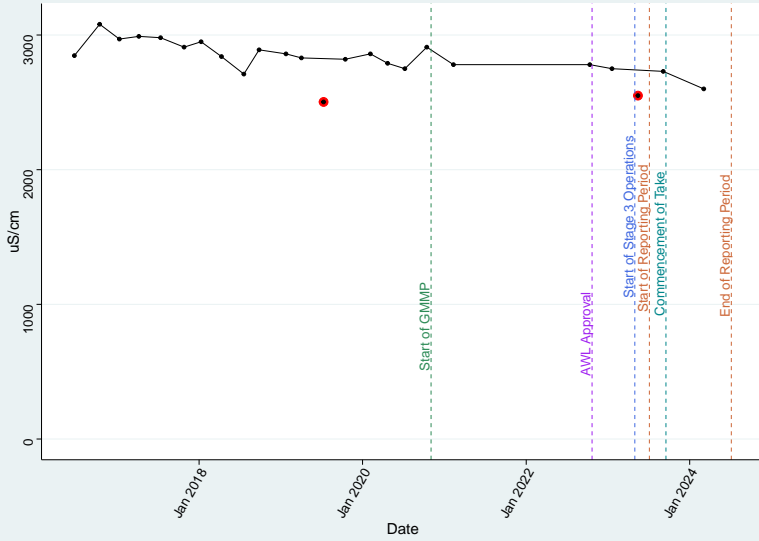
Bore GW10 (Acland Coal Sequence) – EC_Field

Mann Kendall Trend Test | $\tau = 0.619$ | p-value = 0.0715 | No trend



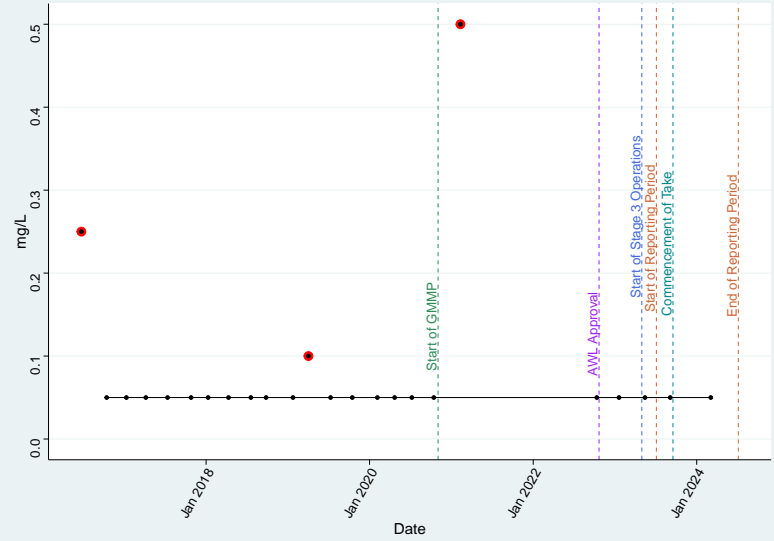
Bore GW10 (Acland Coal Sequence) – EC_Lab

Mann Kendall Trend Test | $\tau = -0.606$ | $p\text{-value} = 0.0000417$ | Negative trend



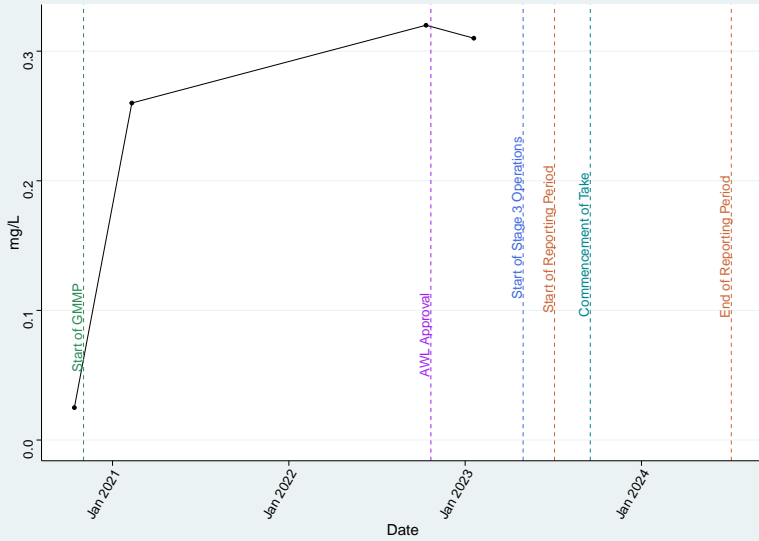
Bore GW10 (Acland Coal Sequence) – F

Mann Kendall Trend Test | $\tau = -0.0741$ | $p\text{-value} = 0.695$ | No trend



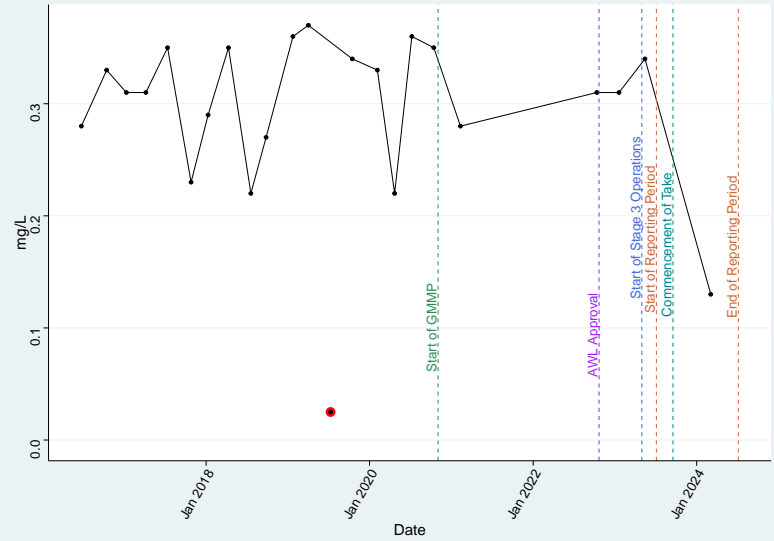
Bore GW10 (Acland Coal Sequence) – Fe2

Mann Kendall Trend Test | $\tau = 0.667$ | $p\text{-value} = 0.308$ | No trend



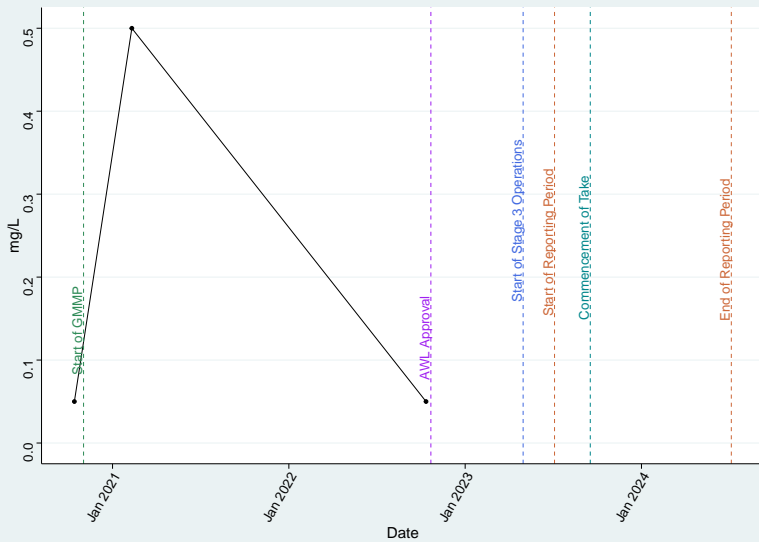
Bore GW10 (Acland Coal Sequence) – Fe_diss

Mann Kendall Trend Test | $\tau = -0.0122$ | $p\text{-value} = 0.958$ | No trend



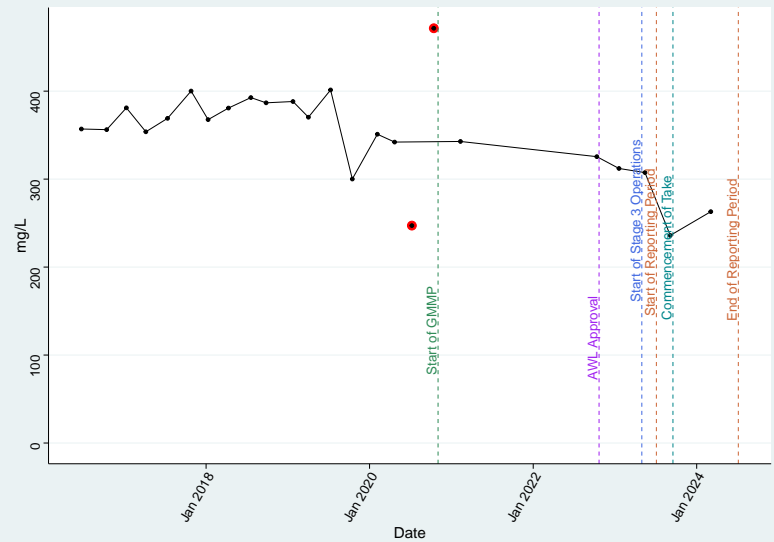
Bore GW10 (Acland Coal Sequence) – H2S

Mann Kendall Trend Test | $\tau =$ Not enough data | $p\text{-value} =$ Not enough data | Not evaluated



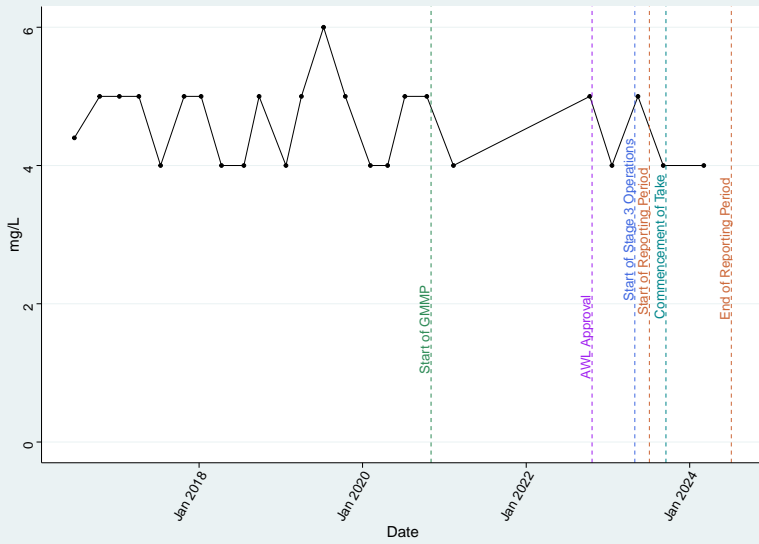
Bore GW10 (Acland Coal Sequence) – HCO3

Mann Kendall Trend Test | $\tau = -0.37$ | $p\text{-value} = 0.0122$ | Negative trend



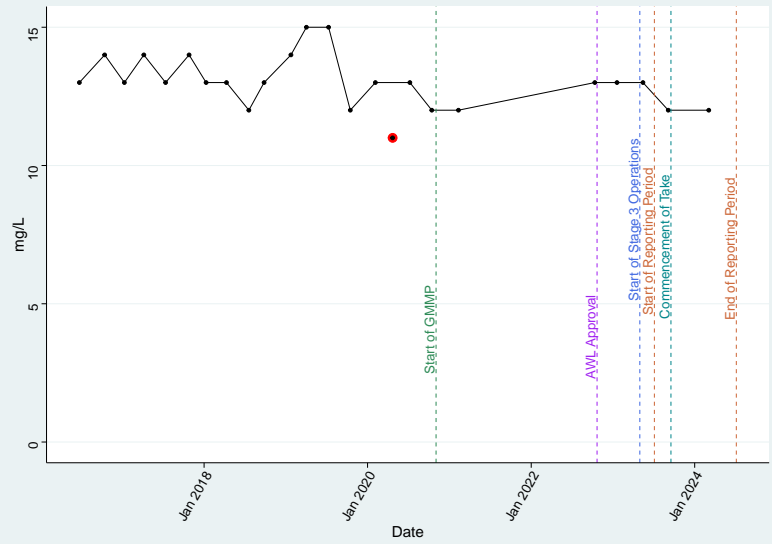
Bore GW10 (Acland Coal Sequence) – K

Mann Kendall Trend Test | $\tau = -0.173$ | $p\text{-value} = 0.316$ | No trend



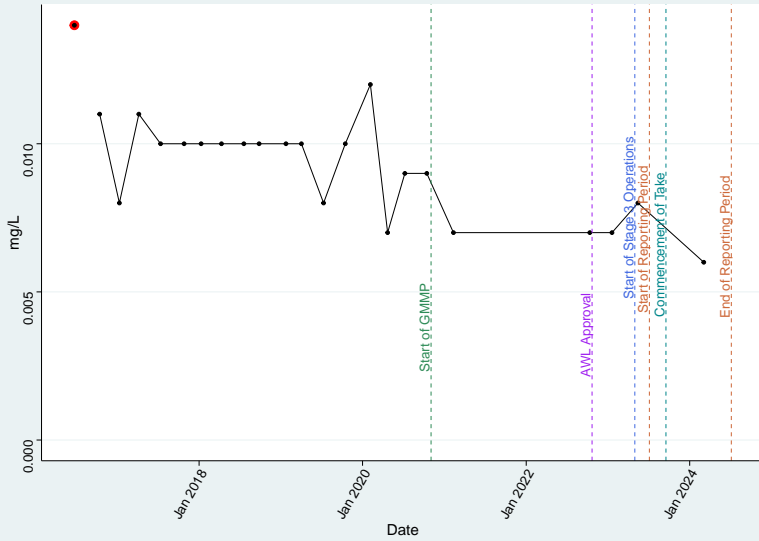
Bore GW10 (Acland Coal Sequence) – Mg

Mann Kendall Trend Test | $\tau = -0.337$ | $p\text{-value} = 0.0386$ | Negative trend



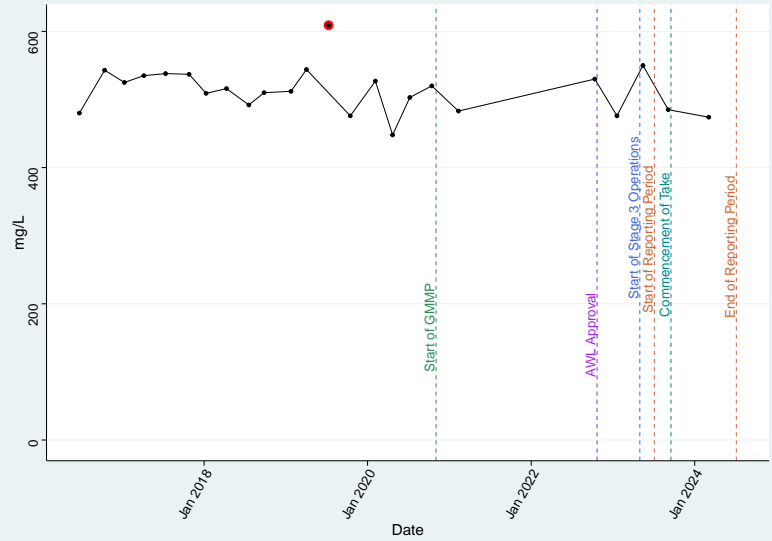
Bore GW10 (Acland Coal Sequence) – Mn_diss

Mann Kendall Trend Test | $\tau = -0.604$ | $p\text{-value} = 0.00017$ | Negative trend



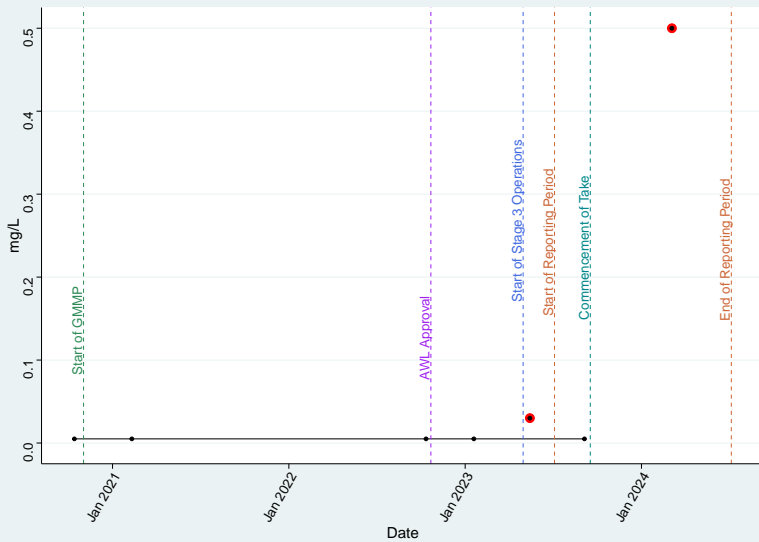
Bore GW10 (Acland Coal Sequence) – Na

Mann Kendall Trend Test | $\tau = -0.214$ | $p\text{-value} = 0.15$ | No trend



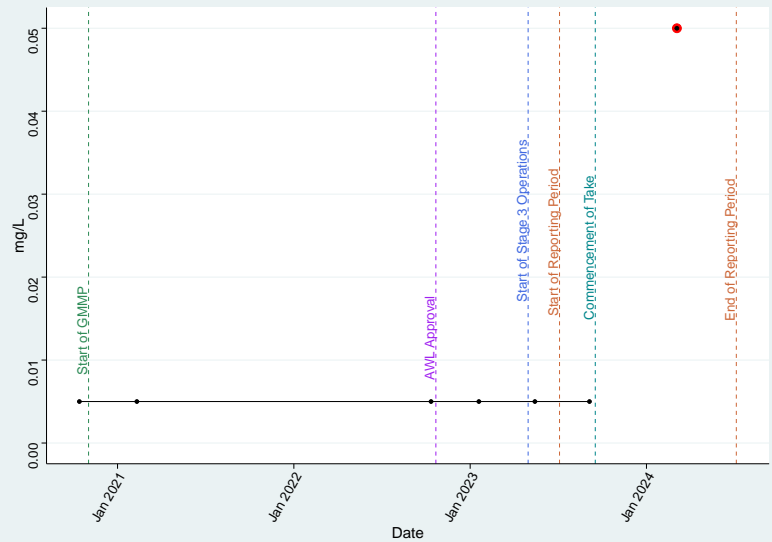
Bore GW10 (Acland Coal Sequence) – Nitrate as N

Mann Kendall Trend Test | $\tau = 0.592$ | $p\text{-value} = 0.128$ | No trend



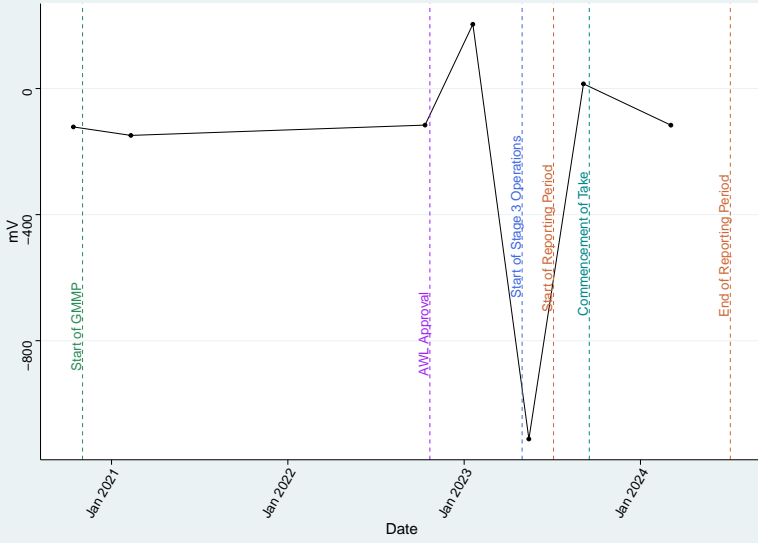
Bore GW10 (Acland Coal Sequence) – Nitrite as N

Mann Kendall Trend Test | $\tau = 0.535$ | $p\text{-value} = 0.211$ | No trend



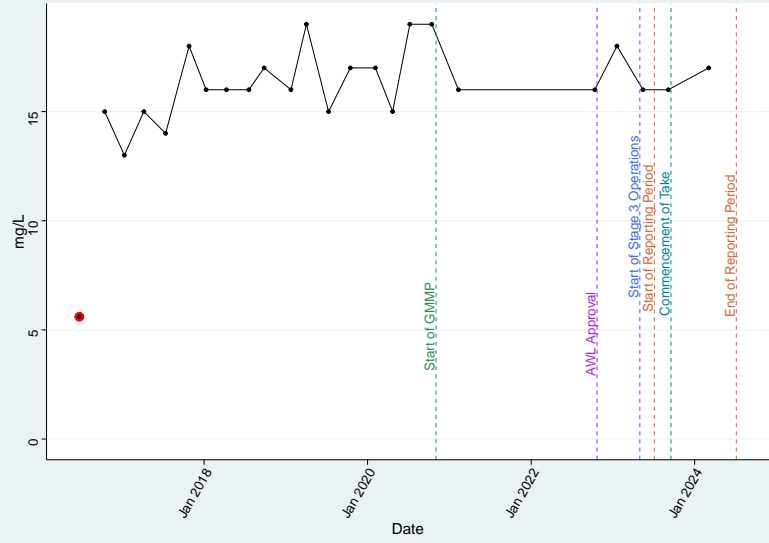
Bore GW10 (Acland Coal Sequence) – Redox_Field

Mann Kendall Trend Test | $\tau = 0.143$ | $p\text{-value} = 0.764$ | No trend



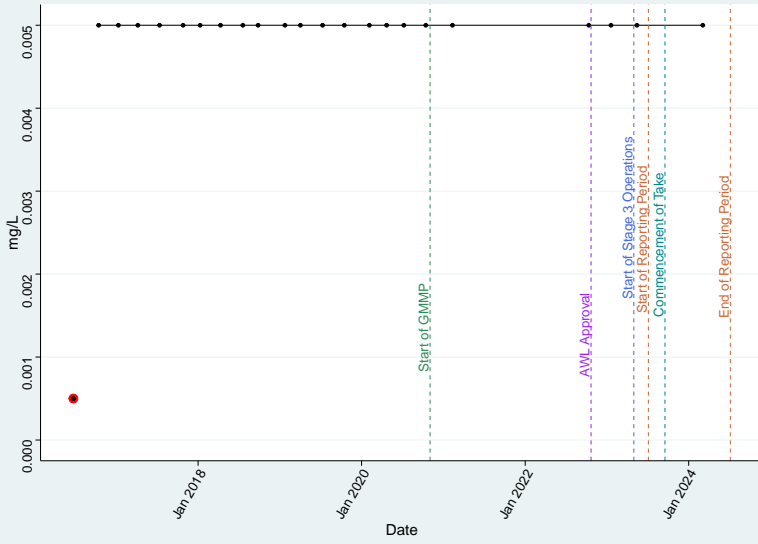
Bore GW10 (Acland Coal Sequence) – SO4

Mann Kendall Trend Test | $\tau = 0.387$ | $p\text{-value} = 0.0134$ | Positive trend



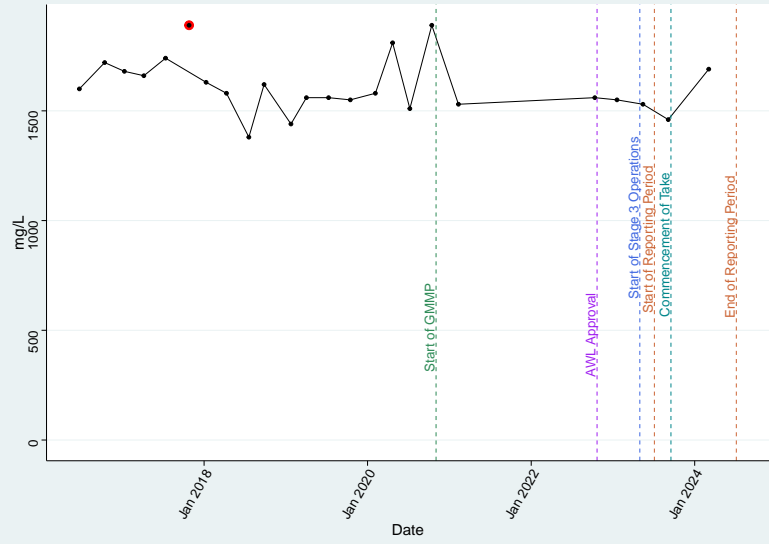
Bore GW10 (Acland Coal Sequence) – Se_diss

Mann Kendall Trend Test | $\tau = 0.295$ | $p\text{-value} = 0.113$ | No trend



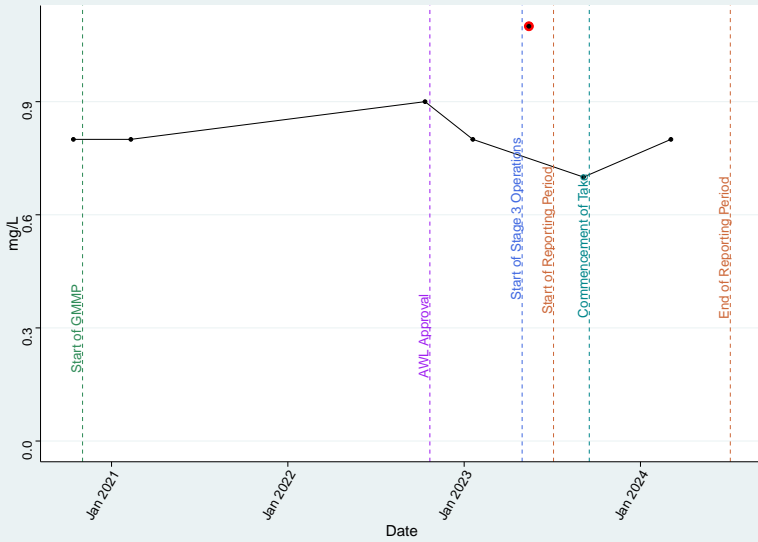
Bore GW10 (Acland Coal Sequence) – TDS

Mann Kendall Trend Test | $\tau = -0.29$ | $p\text{-value} = 0.0525$ | No trend



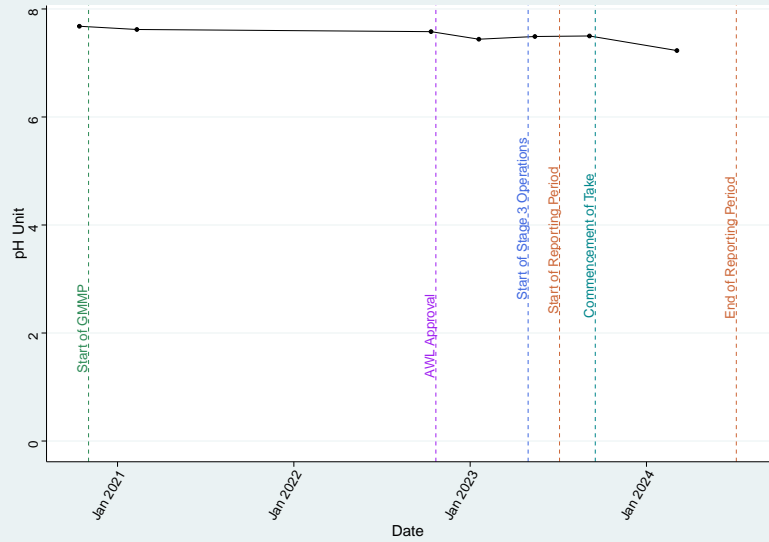
Bore GW10 (Acland Coal Sequence) – TKN

Mann Kendall Trend Test | $\tau = -0.0563$ | $p\text{-value} = 1$ | No trend



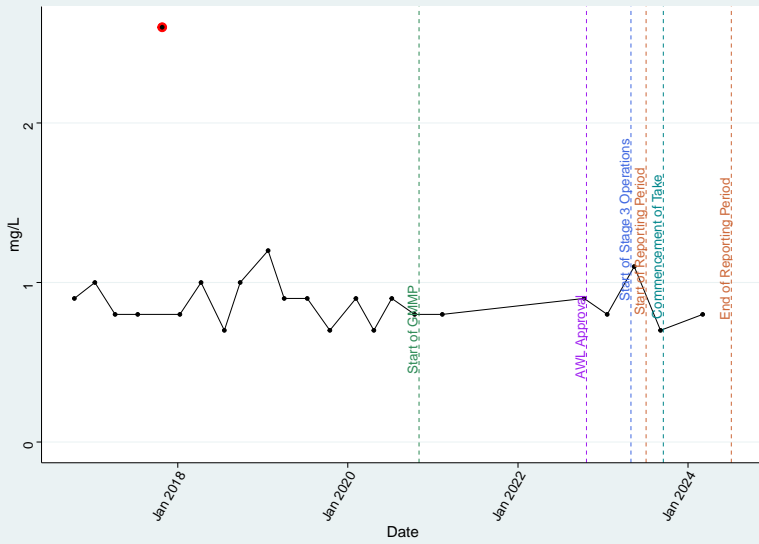
Bore GW10 (Acland Coal Sequence) – pH_Field

Mann Kendall Trend Test | $\tau = -0.714$ | $p\text{-value} = 0.0355$ | Negative trend



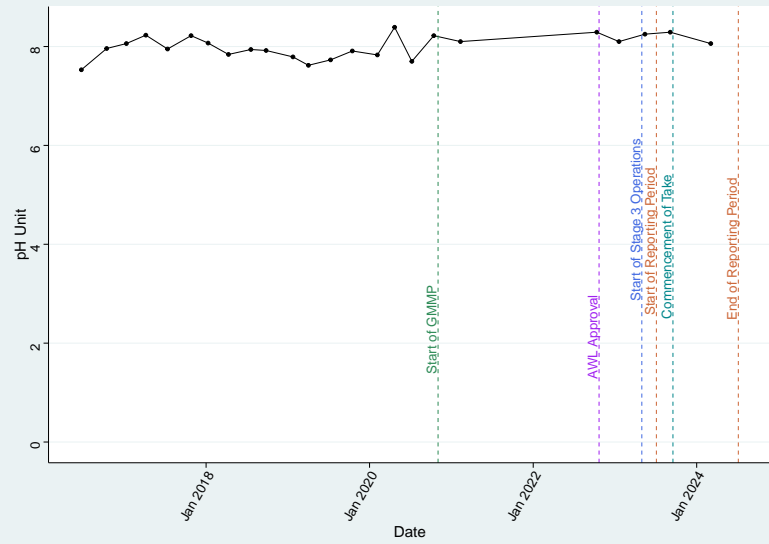
Bore GW10 (Acland Coal Sequence) – Total_N

Mann Kendall Trend Test | $\tau = -0.209$ | $p\text{-value} = 0.201$ | No trend



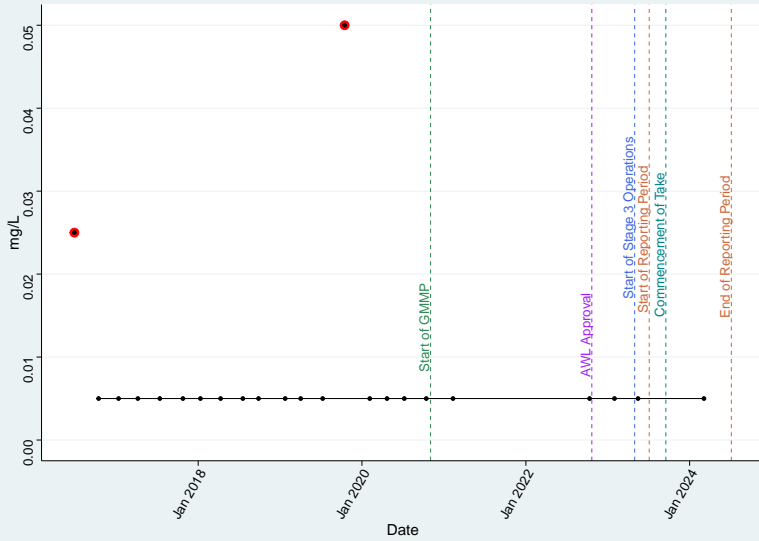
Bore GW10 (Acland Coal Sequence) – pH_Lab

Mann Kendall Trend Test | $\tau = 0.182$ | $p\text{-value} = 0.224$ | No trend



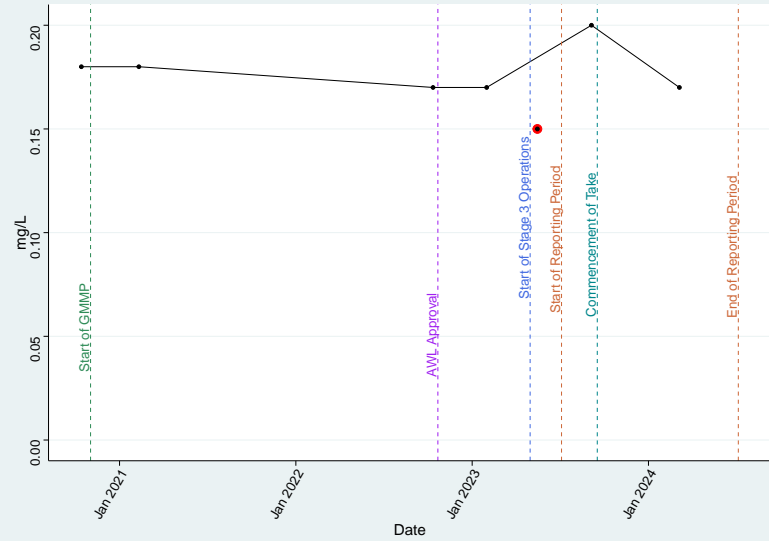
Bore GW15A (Main Range Volcanics) – Al_diss

Mann Kendall Trend Test | $\tau = -0.163$ | $p\text{-value} = 0.383$ | No trend



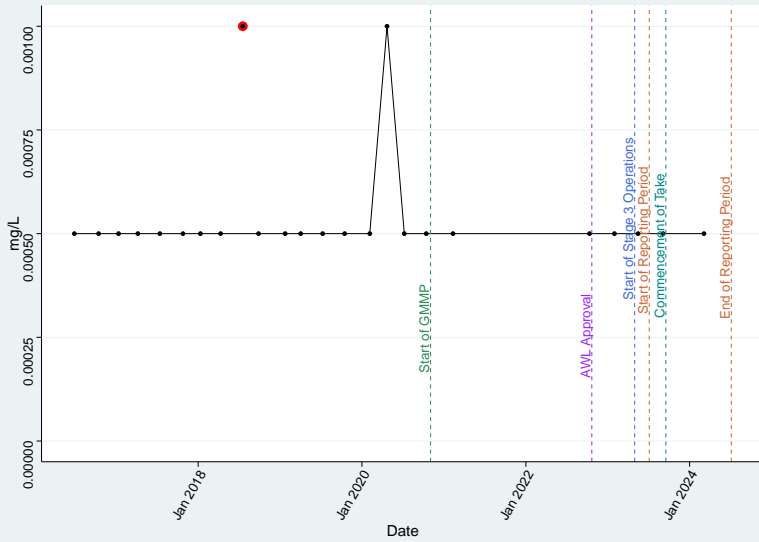
Bore GW15A (Main Range Volcanics) – Ammonia as N

Mann Kendall Trend Test | $\tau = -0.265$ | $p\text{-value} = 0.525$ | No trend



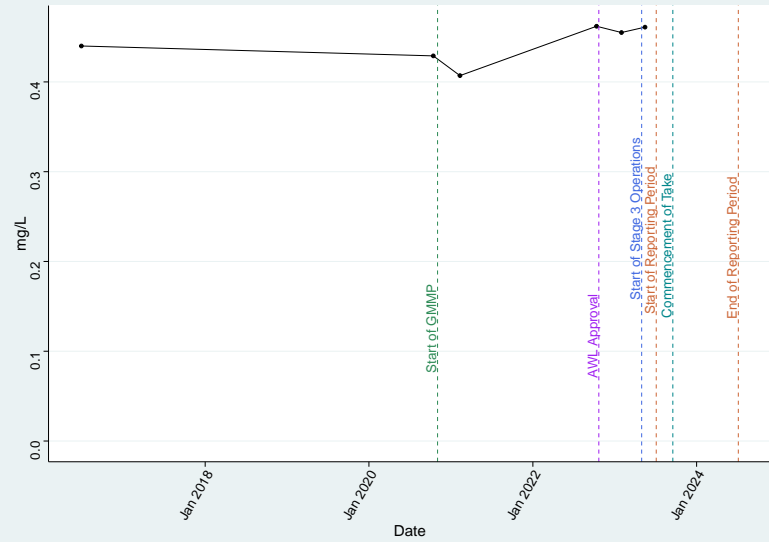
Bore GW15A (Main Range Volcanics) – As_diss

Mann Kendall Trend Test | $\tau = 0$ | $p\text{-value} = 1$ | No trend



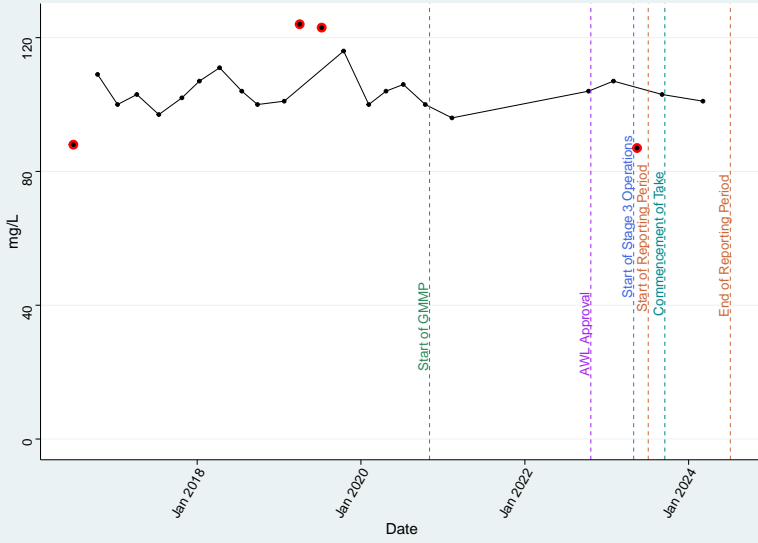
Bore GW15A (Main Range Volcanics) – Ba_diss

Mann Kendall Trend Test | $\tau = 0.333$ | $p\text{-value} = 0.452$ | No trend



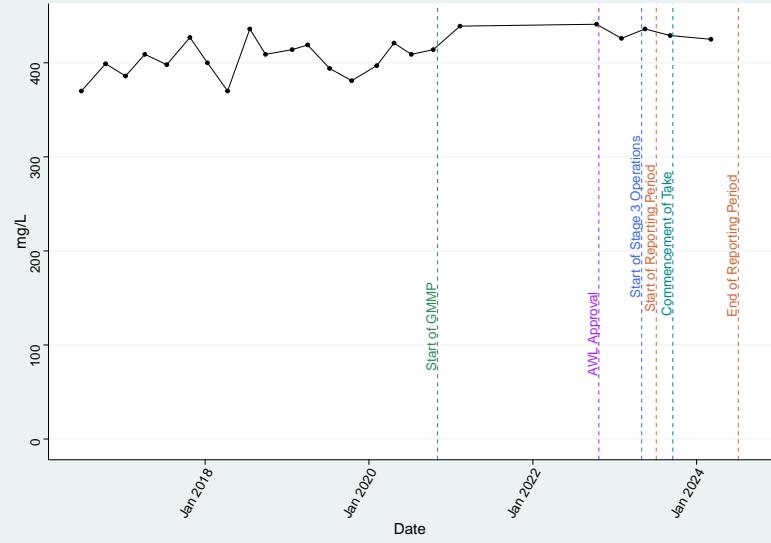
Bore GW15A (Main Range Volcanics) – Ca

Mann Kendall Trend Test | $\tau = -0.0222$ | $p\text{-value} = 0.901$ | No trend



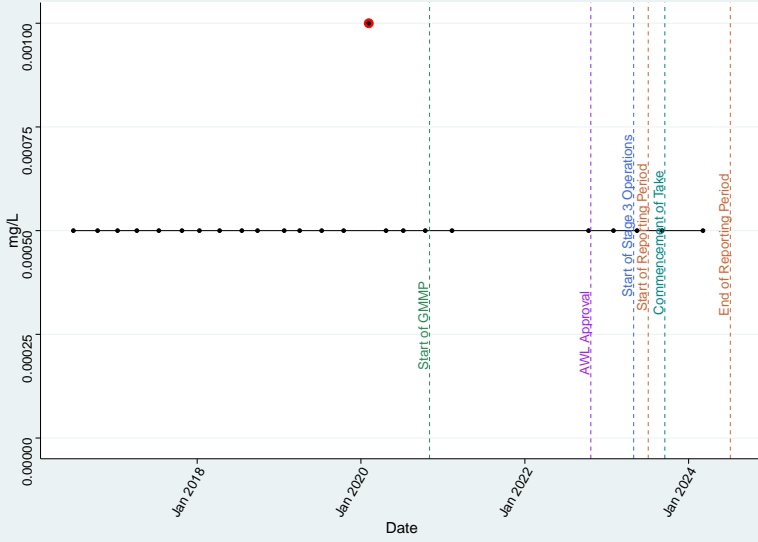
Bore GW15A (Main Range Volcanics) – Cl

Mann Kendall Trend Test | $\tau = 0.447$ | $p\text{-value} = 0.00263$ | Positive trend



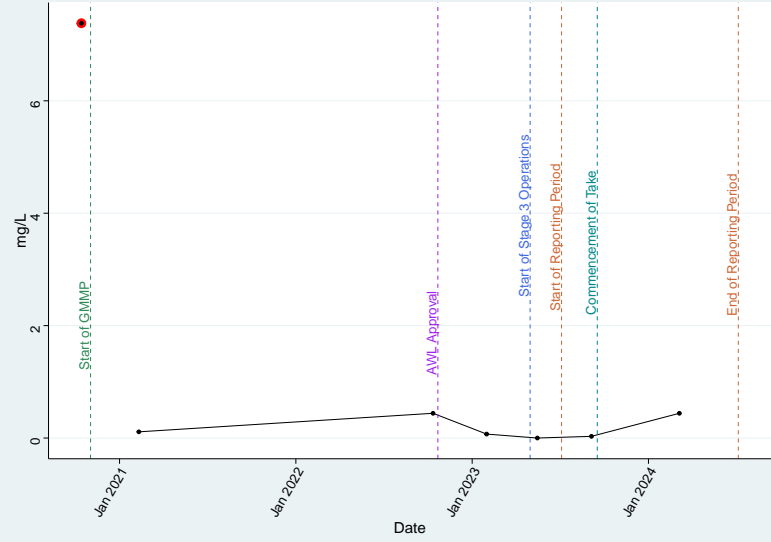
Bore GW15A (Main Range Volcanics) – Cu_diss

Mann Kendall Trend Test | $\tau = 0.0628$ | $p\text{-value} = 0.773$ | No trend



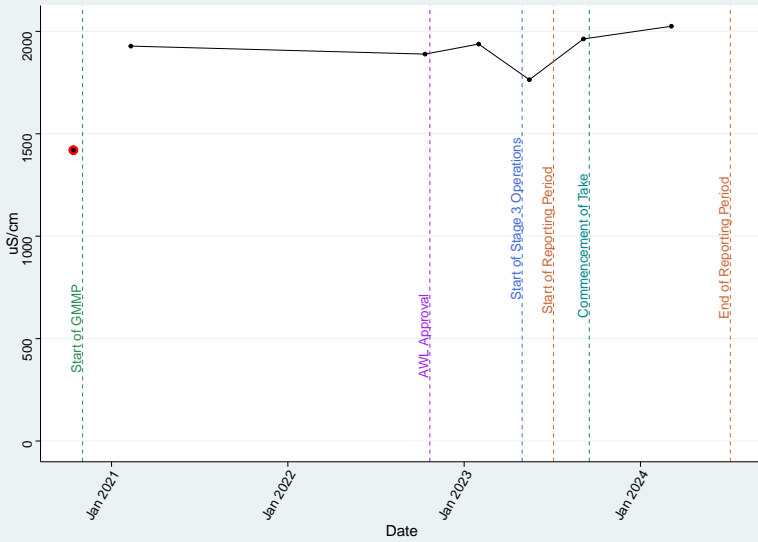
Bore GW15A (Main Range Volcanics) – DO_Field

Mann Kendall Trend Test | $\tau = -0.39$ | $p\text{-value} = 0.288$ | No trend



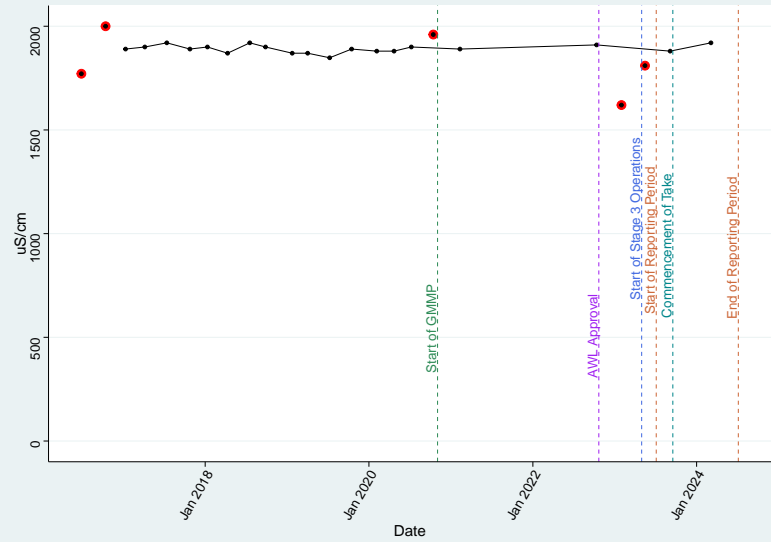
Bore GW15A (Main Range Volcanics) – EC_Field

Mann Kendall Trend Test | $\tau = 0.619$ | $p\text{-value} = 0.0715$ | No trend



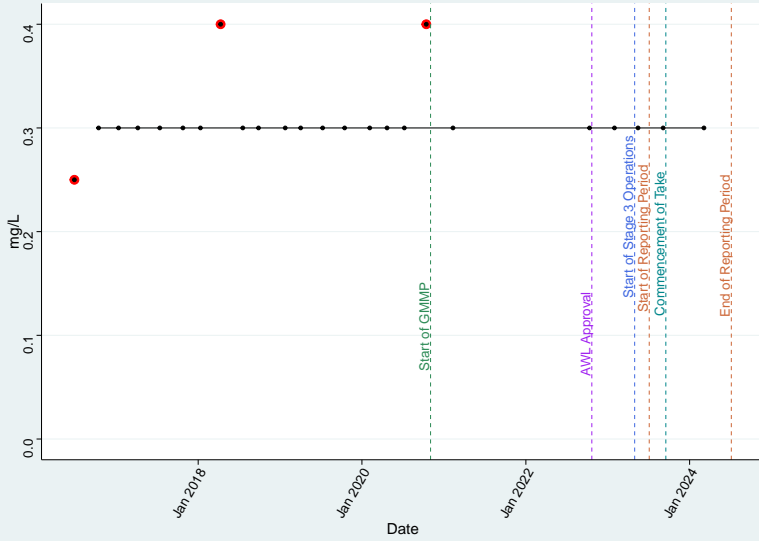
Bore GW15A (Main Range Volcanics) – EC_Lab

Mann Kendall Trend Test | $\tau = -0.0867$ | $p\text{-value} = 0.582$ | No trend



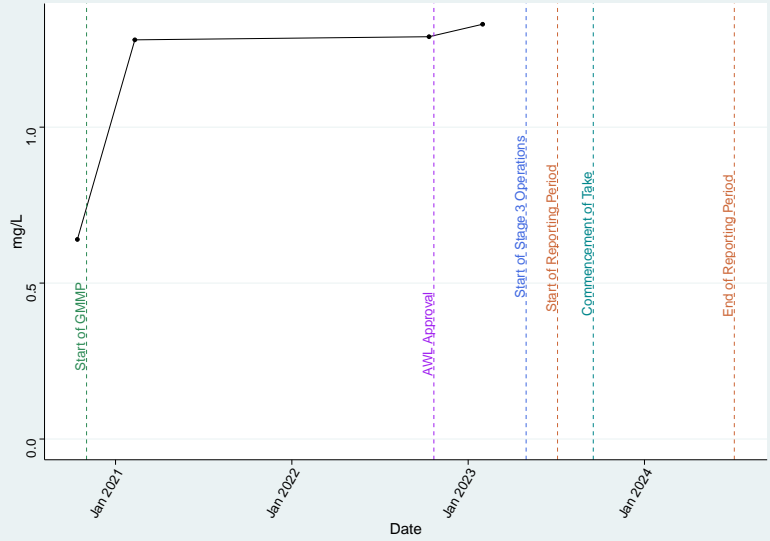
Bore GW15A (Main Range Volcanics) – F

Mann Kendall Trend Test | $\tau = 0.172$ | p-value = 0.338 | No trend



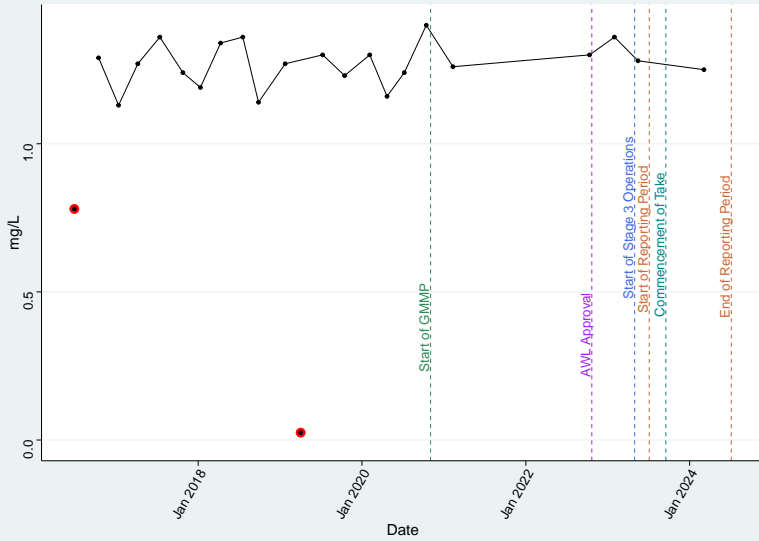
Bore GW15A (Main Range Volcanics) – Fe2

Mann Kendall Trend Test | $\tau = 1$ | p-value = 0.0894 | No trend



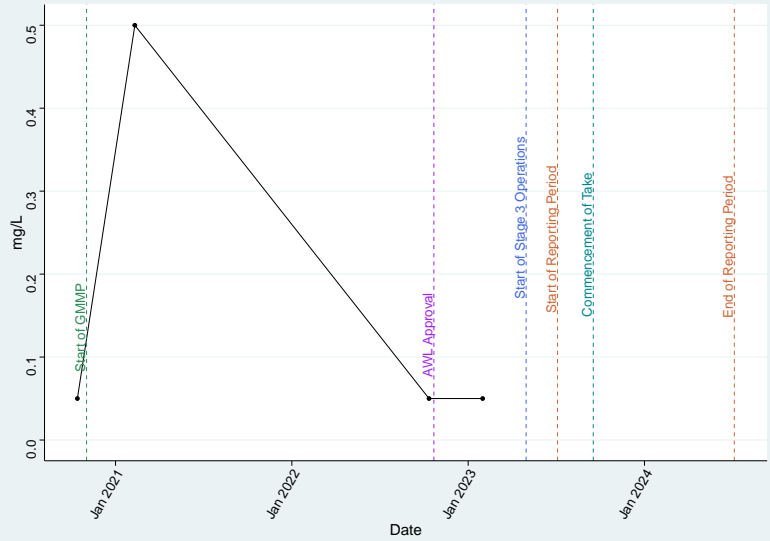
Bore GW15A (Main Range Volcanics) – Fe_diss

Mann Kendall Trend Test | $\tau = 0.173$ | p-value = 0.266 | No trend



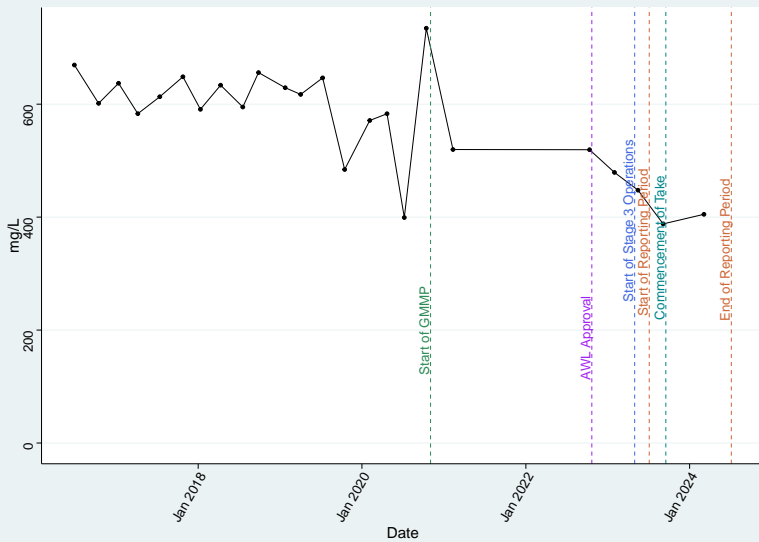
Bore GW15A (Main Range Volcanics) – H2S

Mann Kendall Trend Test | $\tau = -0.236$ | p-value = 1 | No trend



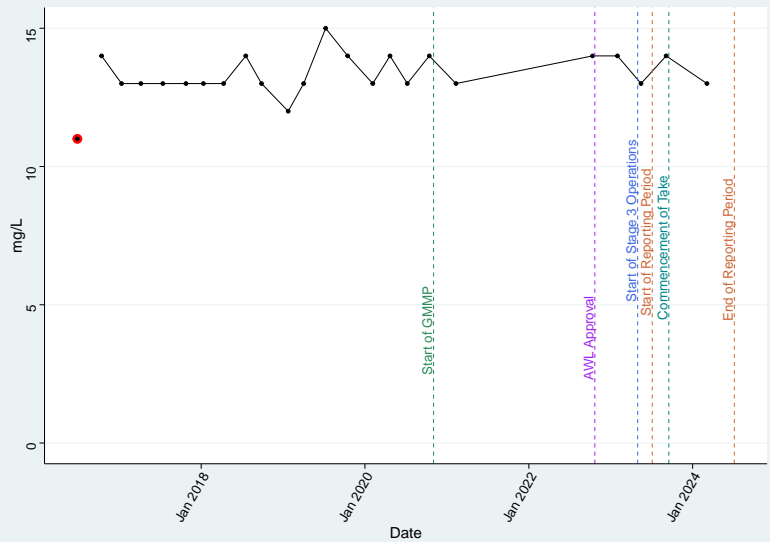
Bore GW15A (Main Range Volcanics) – HCO3

Mann Kendall Trend Test | $\tau = -0.5$ | p-value = 0.000678 | Negative trend



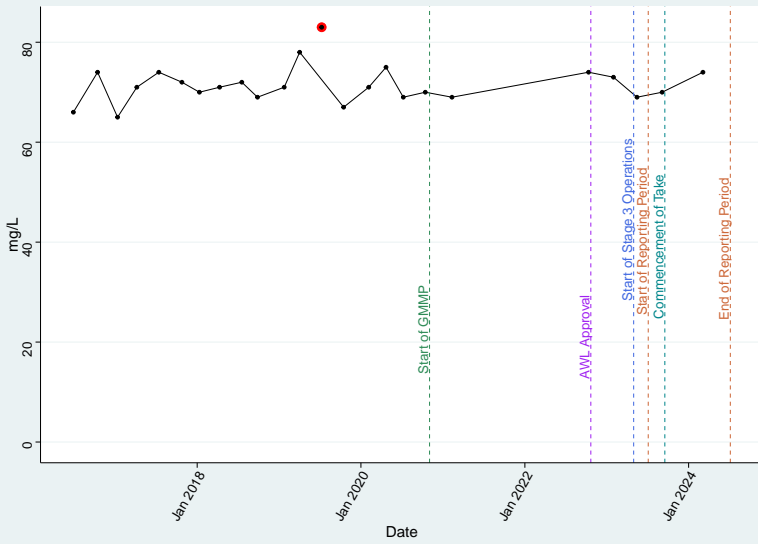
Bore GW15A (Main Range Volcanics) – K

Mann Kendall Trend Test | $\tau = 0.259$ | p-value = 0.126 | No trend



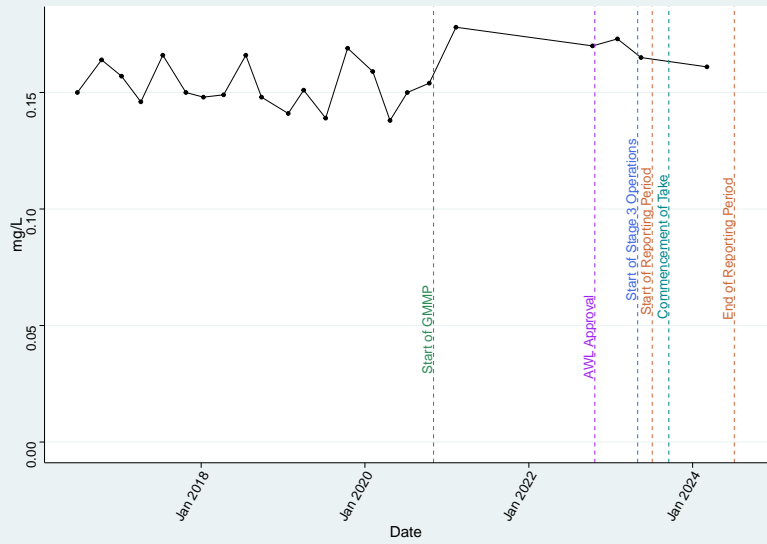
Bore GW15A (Main Range Volcanics) – Mg

Mann Kendall Trend Test | $\tau = 0.0529$ | $p\text{-value} = 0.745$ | No trend



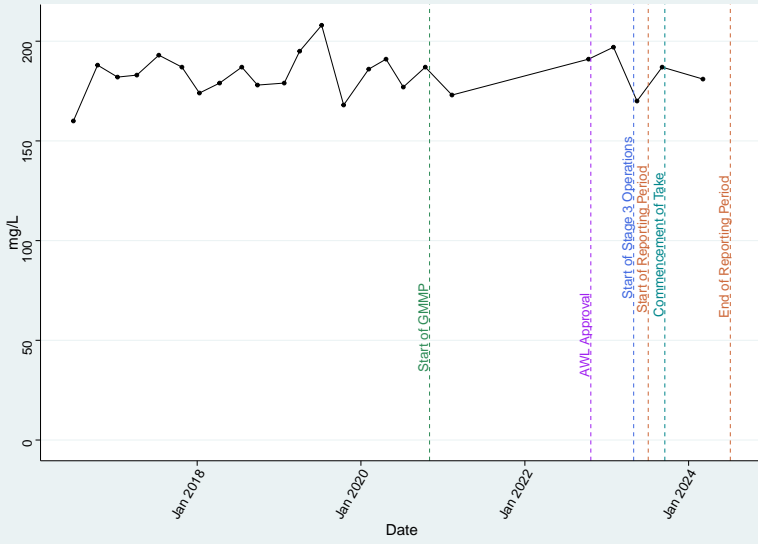
Bore GW15A (Main Range Volcanics) – Mn_diss

Mann Kendall Trend Test | $\tau = 0.208$ | $p\text{-value} = 0.177$ | No trend



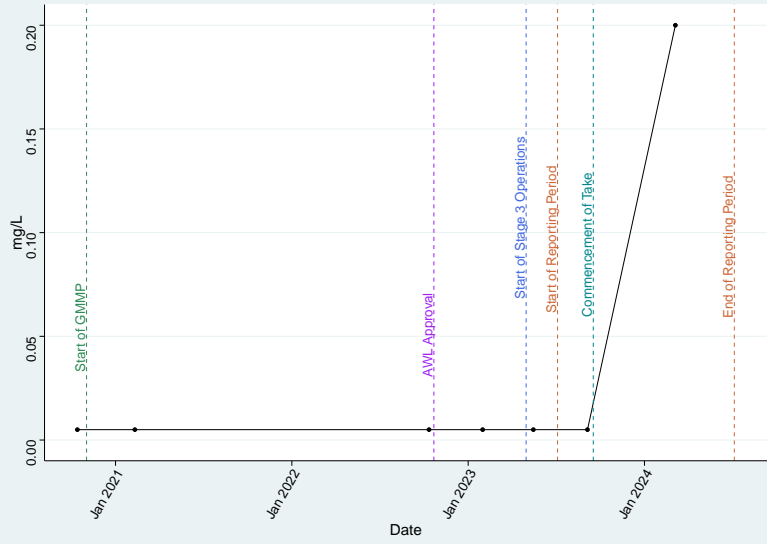
Bore GW15A (Main Range Volcanics) – Na

Mann Kendall Trend Test | $\tau = 0.0441$ | $p\text{-value} = 0.784$ | No trend



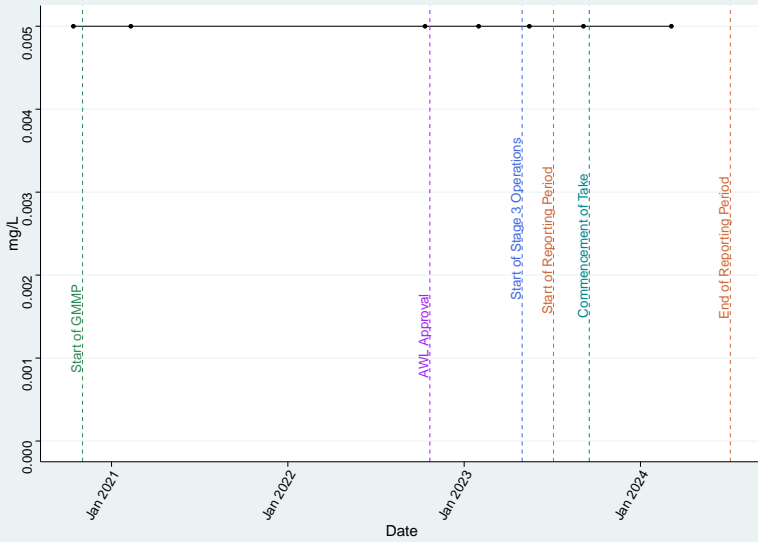
Bore GW15A (Main Range Volcanics) – Nitrate as N

Mann Kendall Trend Test | $\tau = 0.535$ | $p\text{-value} = 0.211$ | No trend



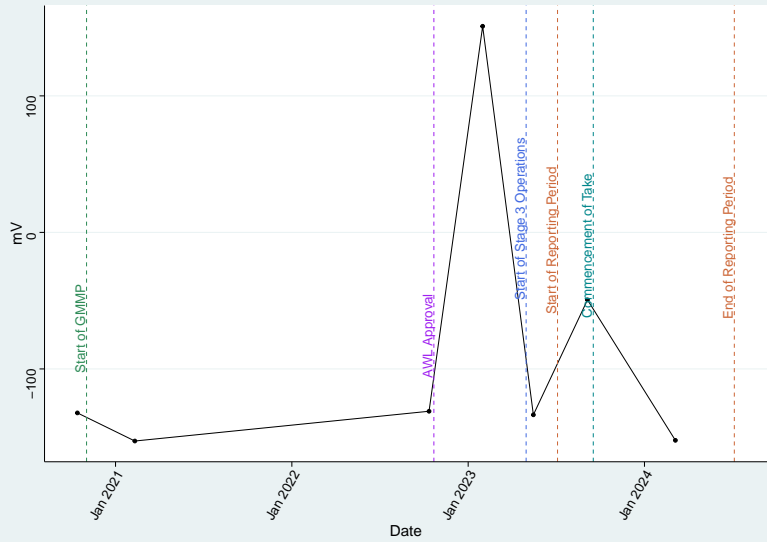
Bore GW15A (Main Range Volcanics) – Nitrite as N

Mann Kendall Trend Test | $\tau = 1$ | $p\text{-value} = 1$ | No trend



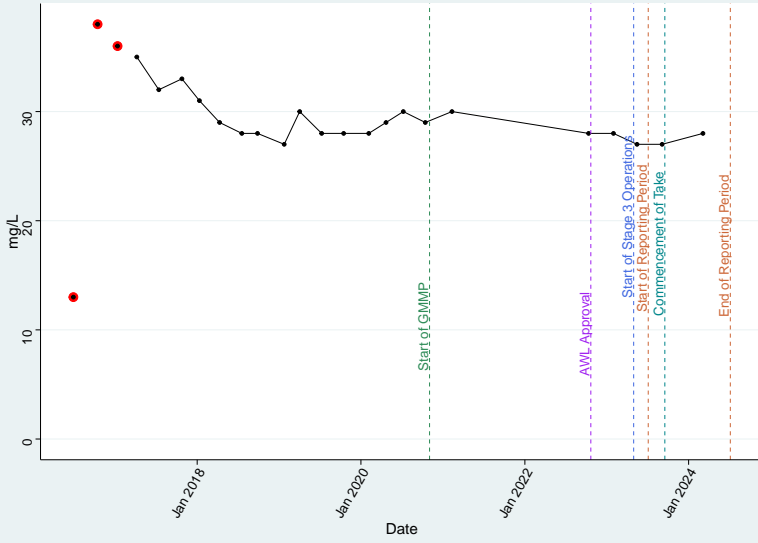
Bore GW15A (Main Range Volcanics) – Redox_Field

Mann Kendall Trend Test | $\tau = 0.0476$ | $p\text{-value} = 1$ | No trend



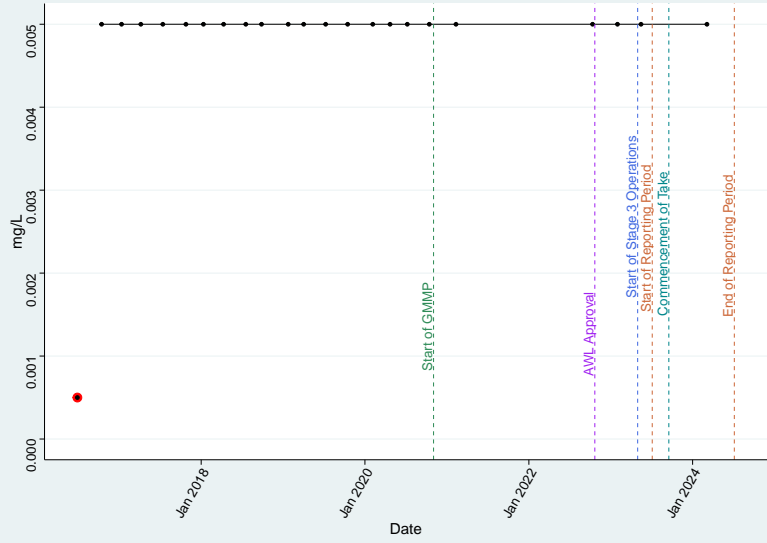
Bore GW15A (Main Range Volcanics) – SO4

Mann Kendall Trend Test | $\tau = -0.424$ | $p\text{-value} = 0.00607$ | Negative trend



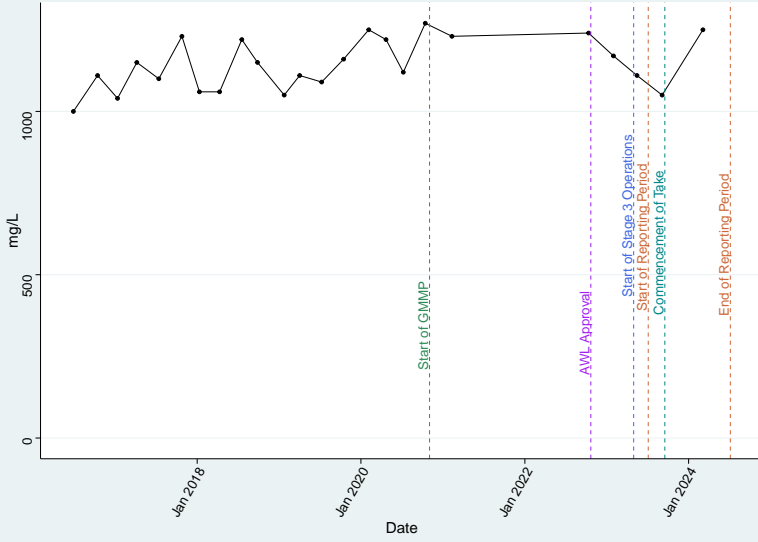
Bore GW15A (Main Range Volcanics) – Se_diss

Mann Kendall Trend Test | $\tau = 0.295$ | $p\text{-value} = 0.113$ | No trend



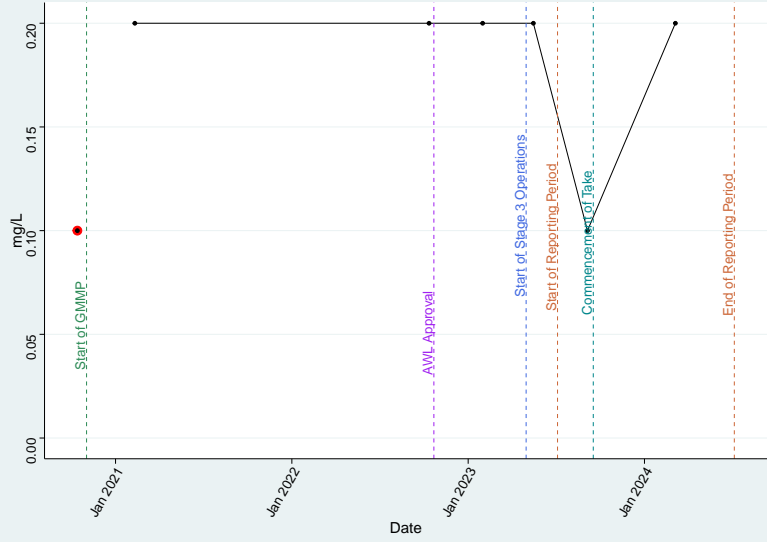
Bore GW15A (Main Range Volcanics) – TDS

Mann Kendall Trend Test | $\tau = 0.343$ | $p\text{-value} = 0.0221$ | Positive trend



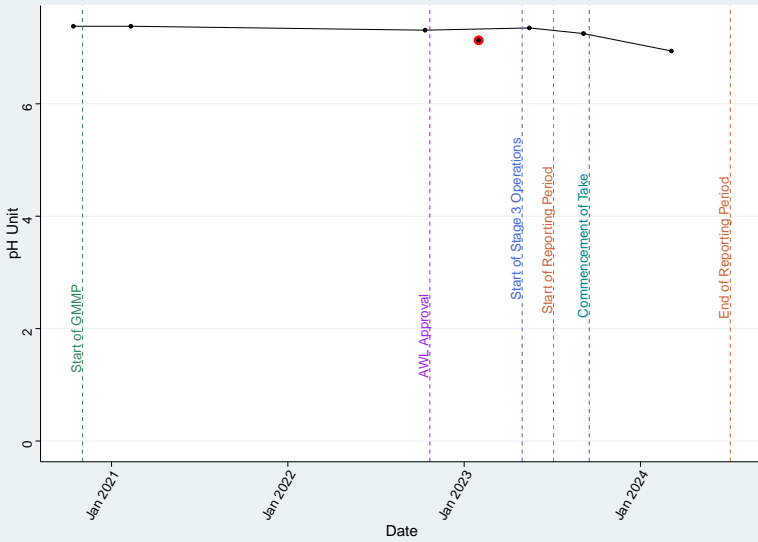
Bore GW15A (Main Range Volcanics) – TKN

Mann Kendall Trend Test | $\tau = 0.138$ | $p\text{-value} = 0.846$ | No trend



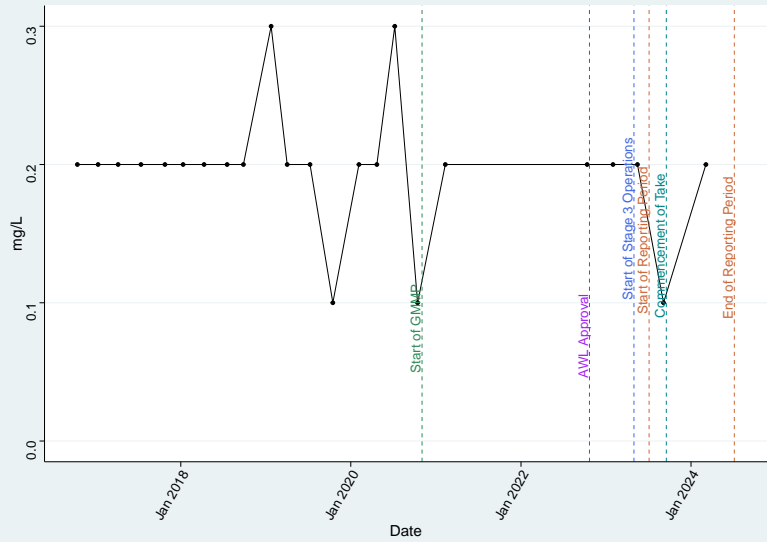
Bore GW15A (Main Range Volcanics) – pH_Field

Mann Kendall Trend Test | $\tau = -0.683$ | $p\text{-value} = 0.0483$ | Negative trend



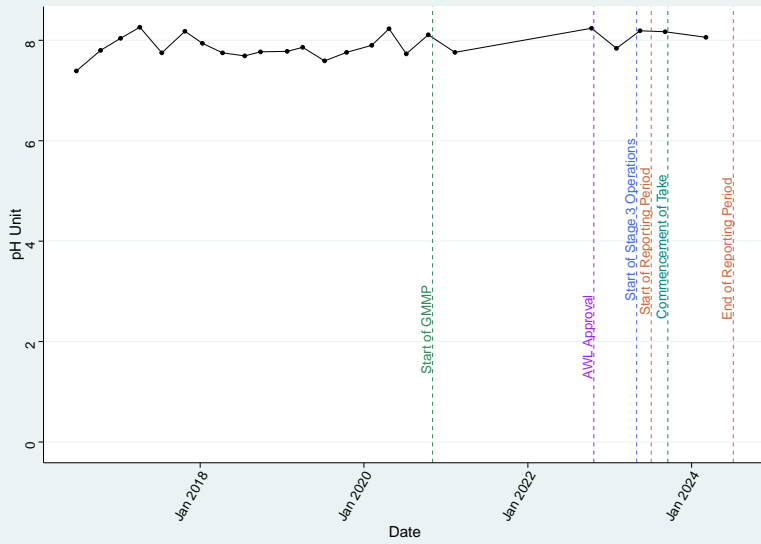
Bore GW15A (Main Range Volcanics) – Total_N

Mann Kendall Trend Test | $\tau = -0.154$ | $p\text{-value} = 0.395$ | No trend



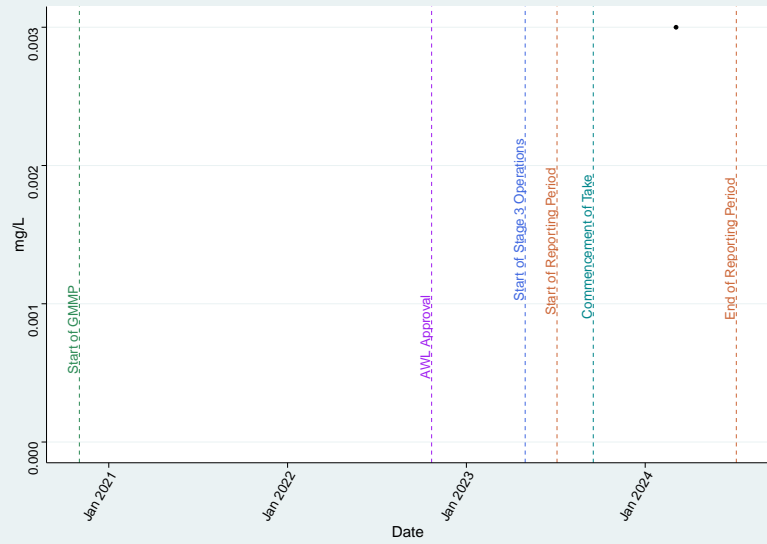
Bore GW15A (Main Range Volcanics) – pH_Lab

Mann Kendall Trend Test | $\tau = 0.204$ | $p\text{-value} = 0.172$ | No trend



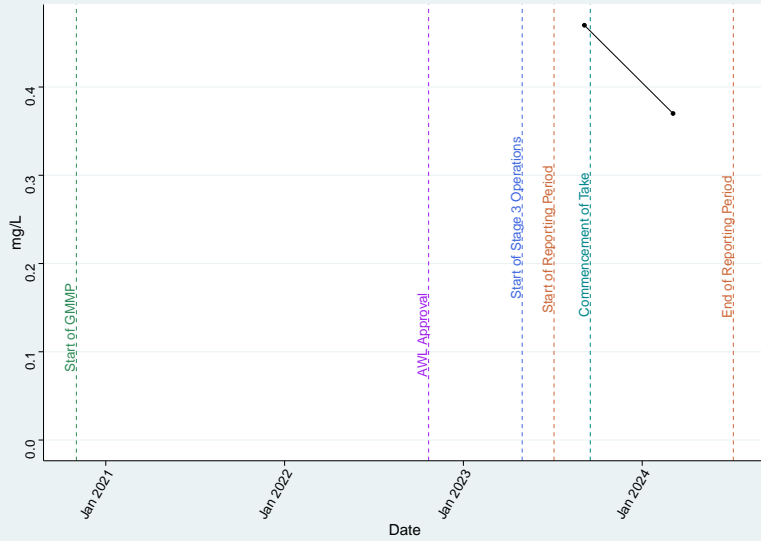
Bore GW17AR (Acland Coal Sequence) – Al_diss

Mann Kendall Trend Test | $\tau =$ Not enough data | $p\text{-value} =$ Not enough data | Not evaluated



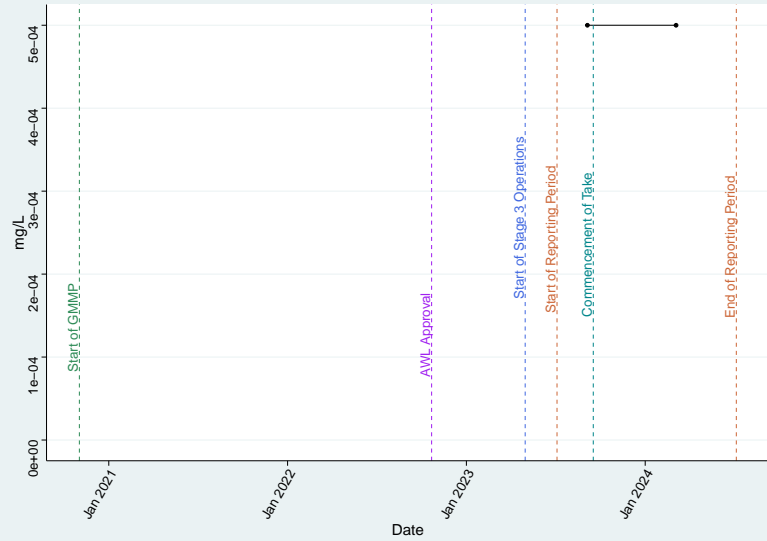
Bore GW17AR (Acland Coal Sequence) – Ammonia as N

Mann Kendall Trend Test | $\tau =$ Not enough data | $p\text{-value} =$ Not enough data | Not evaluated



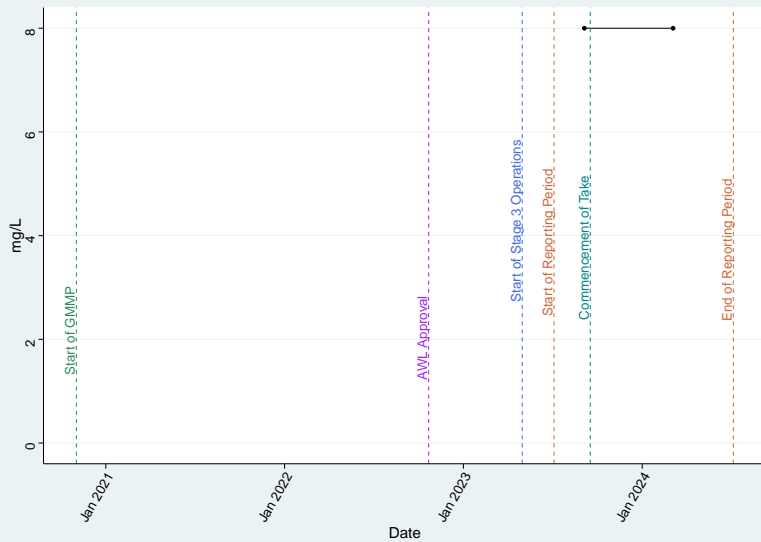
Bore GW17AR (Acland Coal Sequence) – As_diss

Mann Kendall Trend Test | $\tau =$ Not enough data | $p\text{-value} =$ Not enough data | Not evaluated



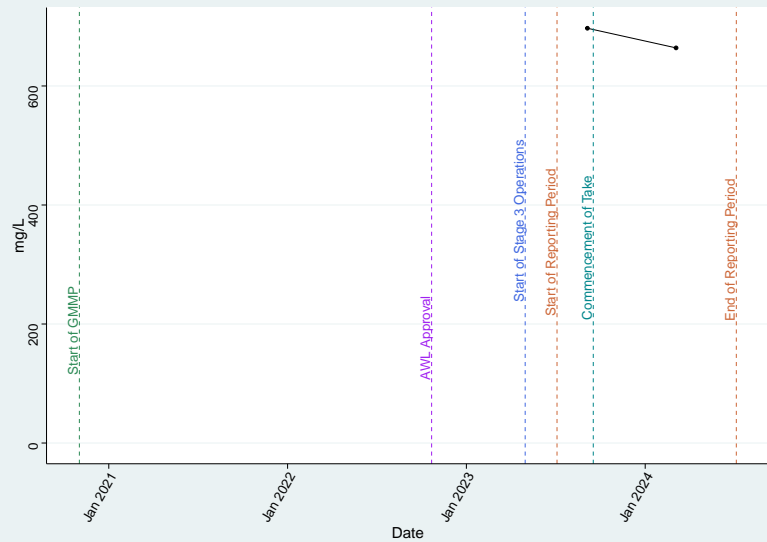
Bore GW17AR (Acland Coal Sequence) – Ca

Mann Kendall Trend Test | $\tau =$ Not enough data | $p\text{-value} =$ Not enough data | Not evaluated



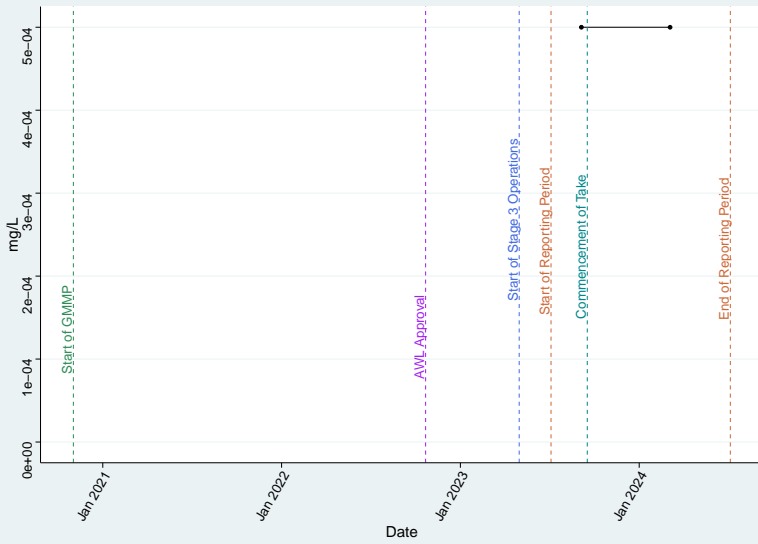
Bore GW17AR (Acland Coal Sequence) – Cl

Mann Kendall Trend Test | $\tau =$ Not enough data | $p\text{-value} =$ Not enough data | Not evaluated



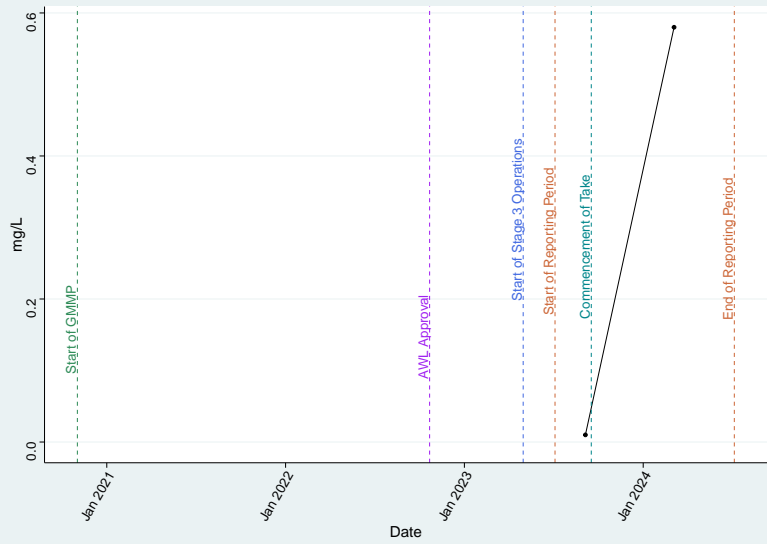
Bore GW17AR (Acland Coal Sequence) – Cu_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



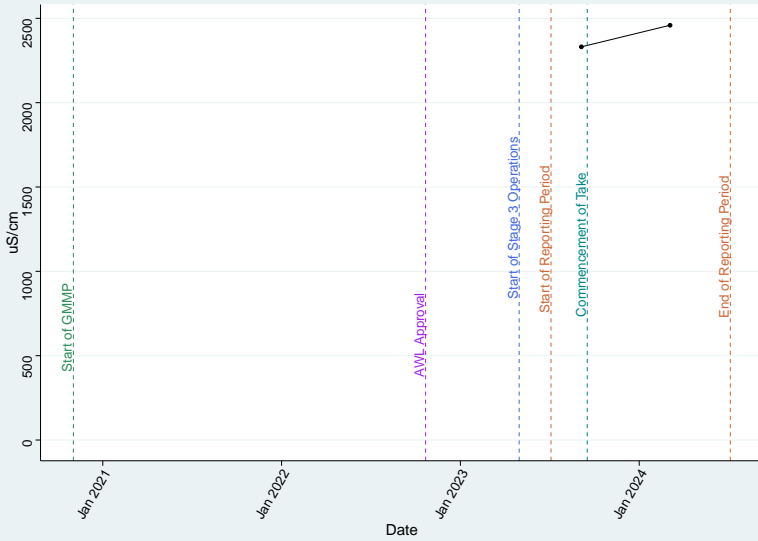
Bore GW17AR (Acland Coal Sequence) – DO_Field

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



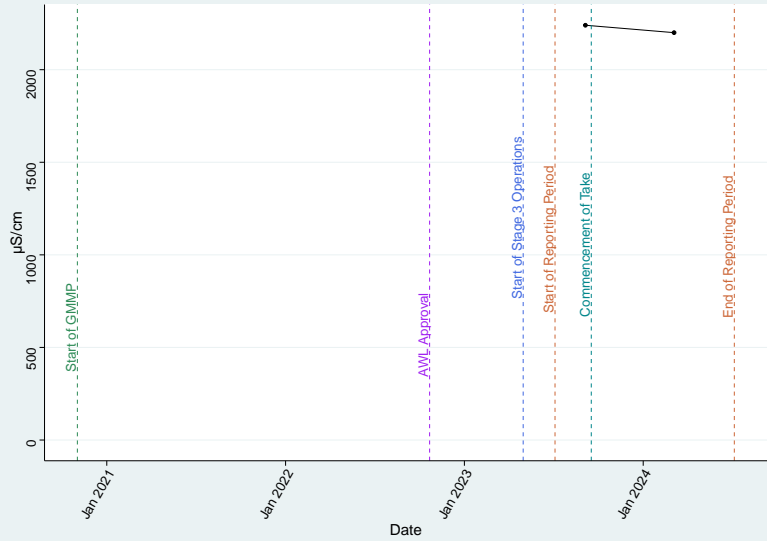
Bore GW17AR (Acland Coal Sequence) – EC_Field

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



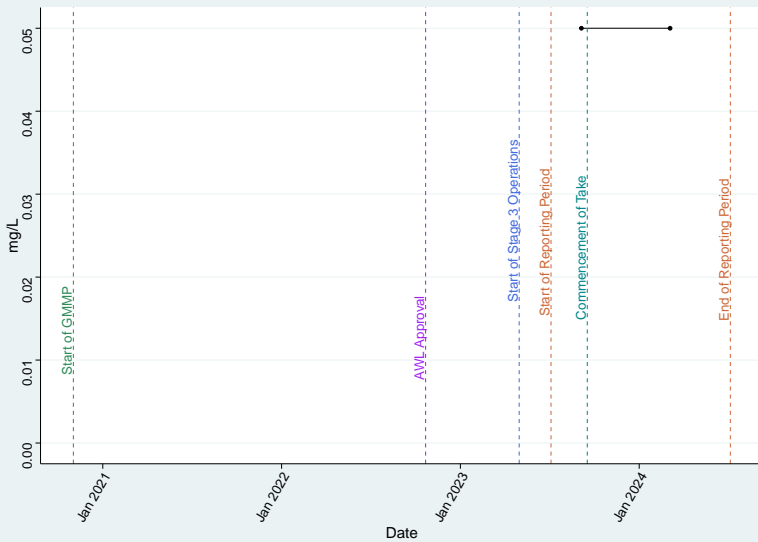
Bore GW17AR (Acland Coal Sequence) – EC_Lab

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



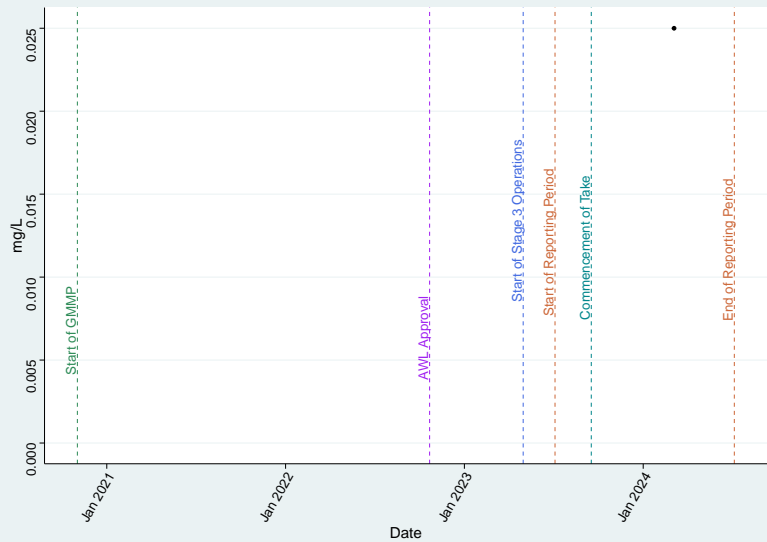
Bore GW17AR (Acland Coal Sequence) – F

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



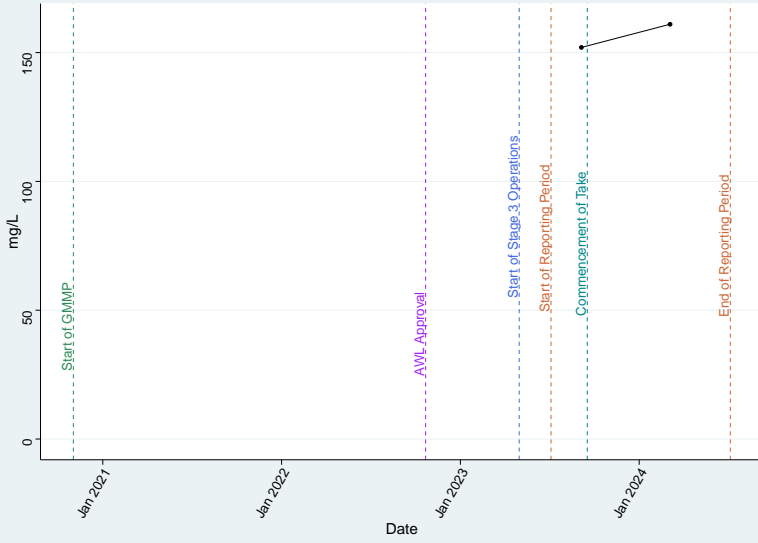
Bore GW17AR (Acland Coal Sequence) – Fe_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



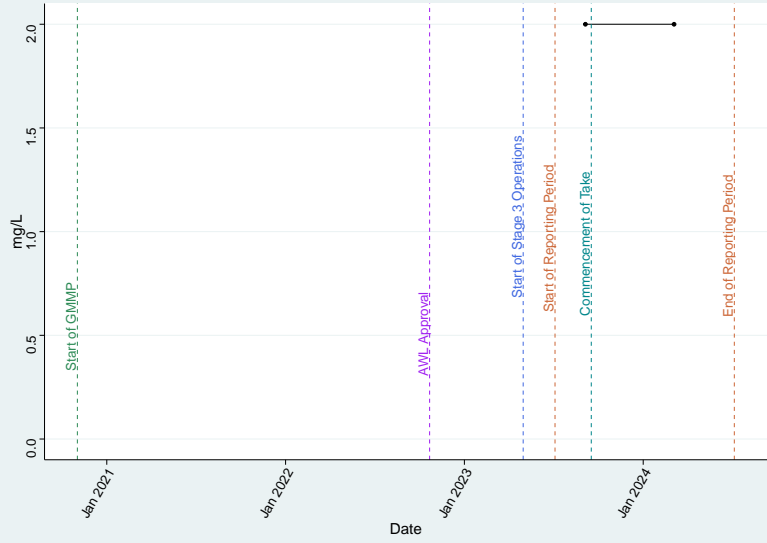
Bore GW17AR (Acland Coal Sequence) – HCO3

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



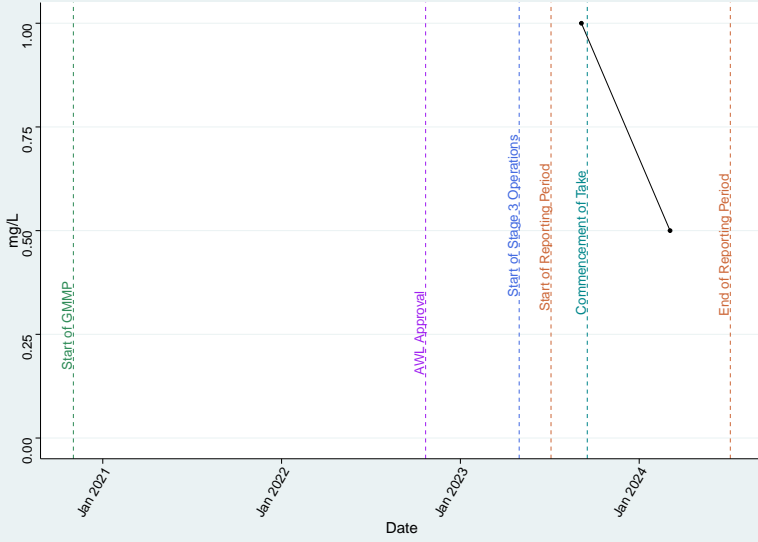
Bore GW17AR (Acland Coal Sequence) – K

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



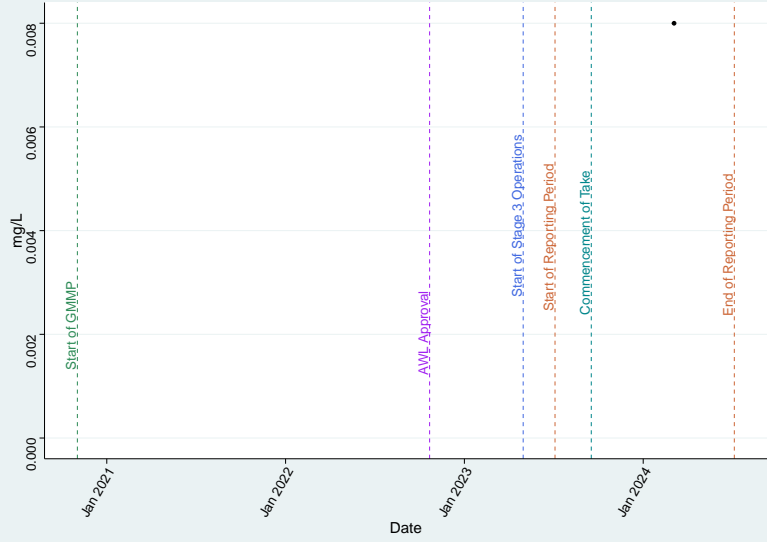
Bore GW17AR (Acland Coal Sequence) – Mg

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



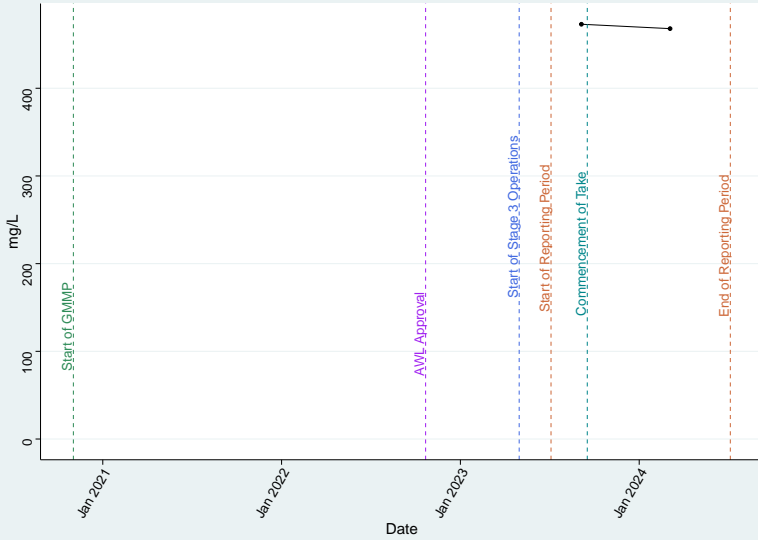
Bore GW17AR (Acland Coal Sequence) – Mn_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



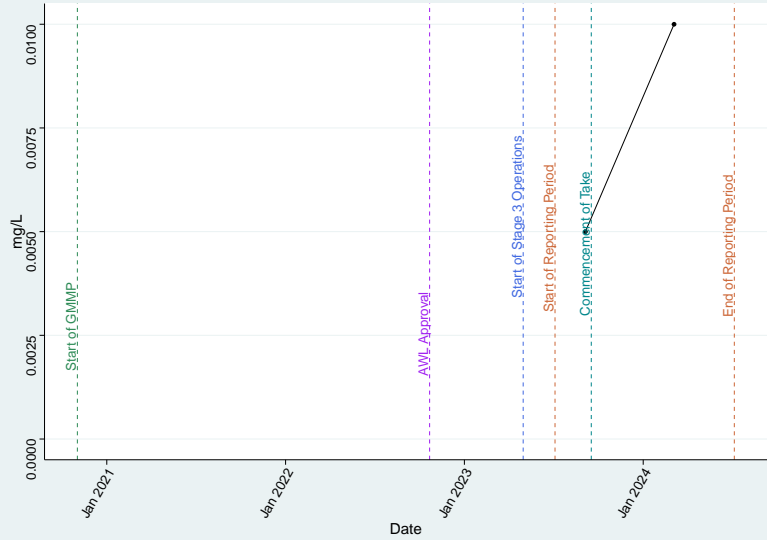
Bore GW17AR (Acland Coal Sequence) – Na

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



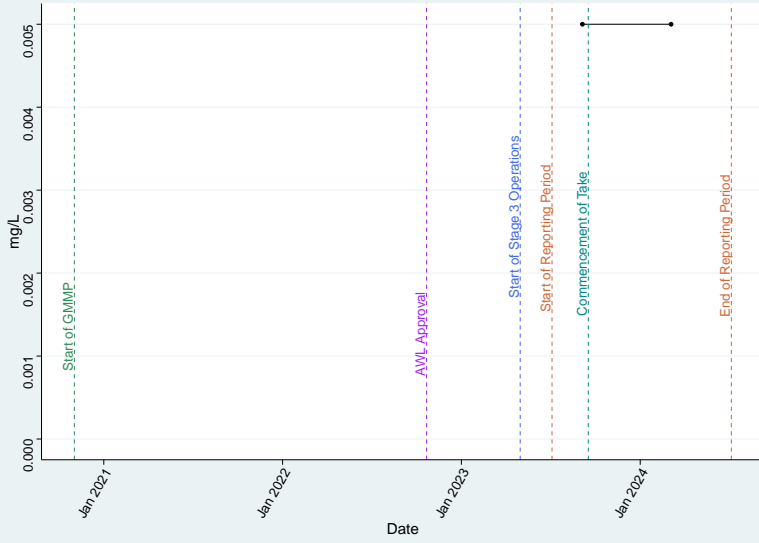
Bore GW17AR (Acland Coal Sequence) – Nitrate as N

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



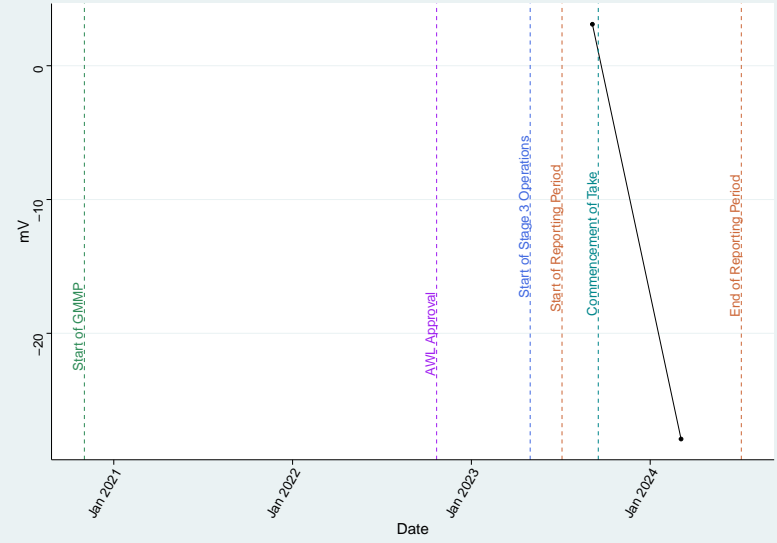
Bore GW17AR (Acland Coal Sequence) – Nitrite as N

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



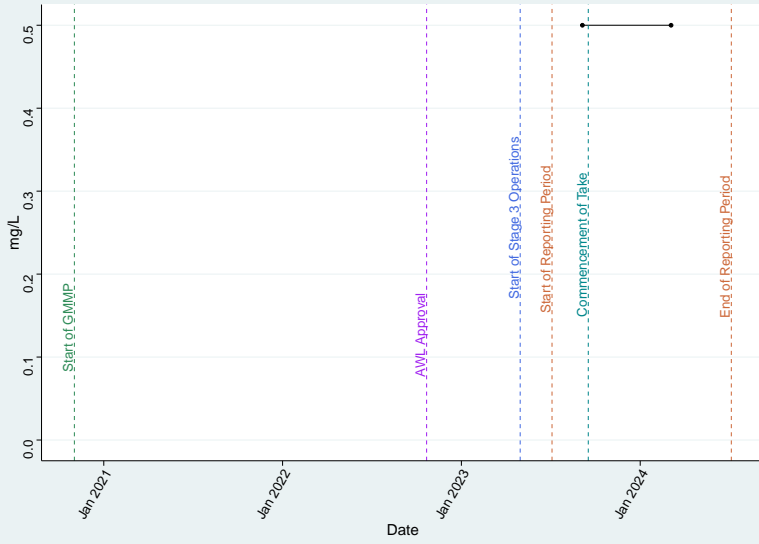
Bore GW17AR (Acland Coal Sequence) – Redox_Field

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



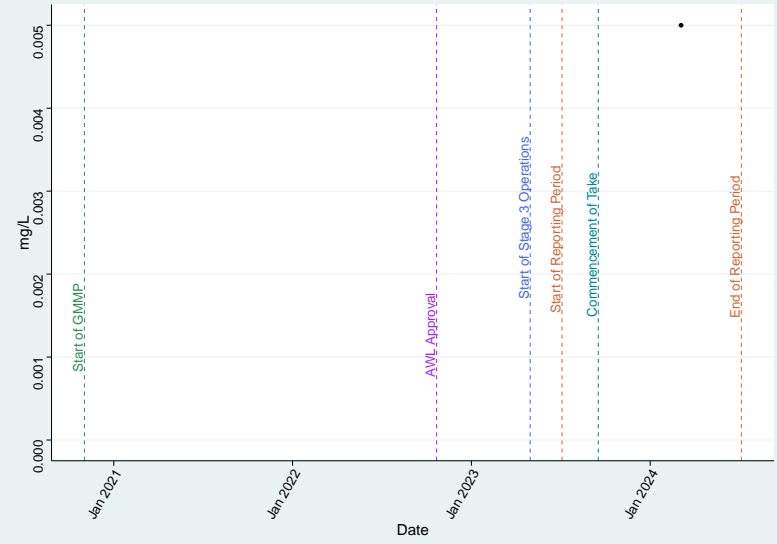
Bore GW17AR (Acland Coal Sequence) – SO4

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



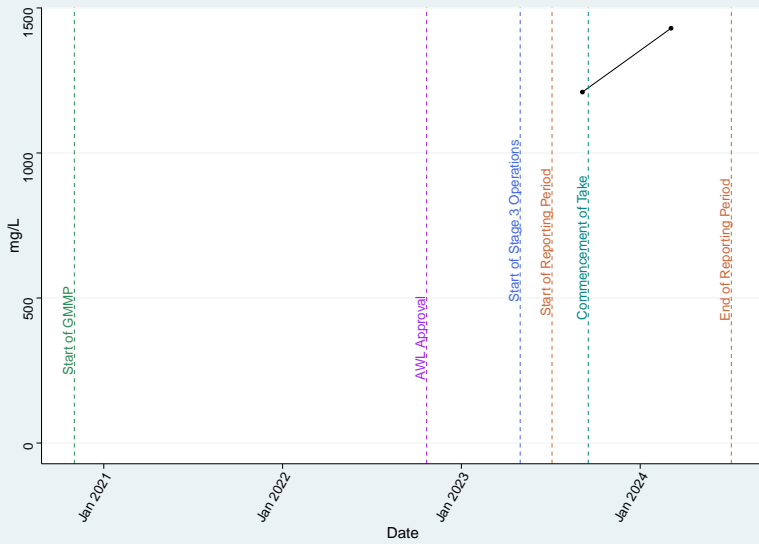
Bore GW17AR (Acland Coal Sequence) – Se_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



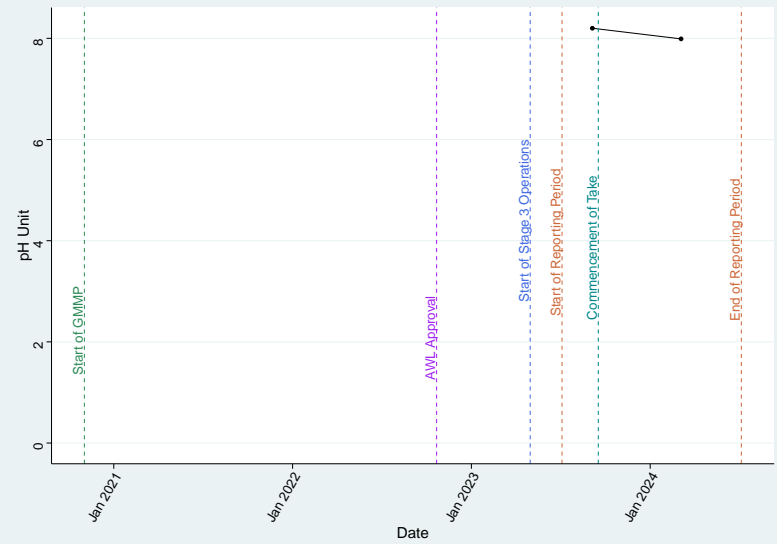
Bore GW17AR (Acland Coal Sequence) – TDS

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



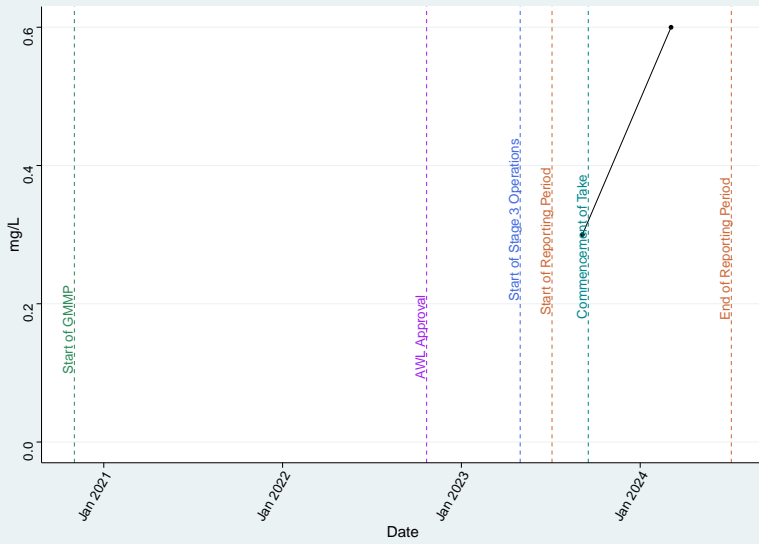
Bore GW17AR (Acland Coal Sequence) – pH_Field

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



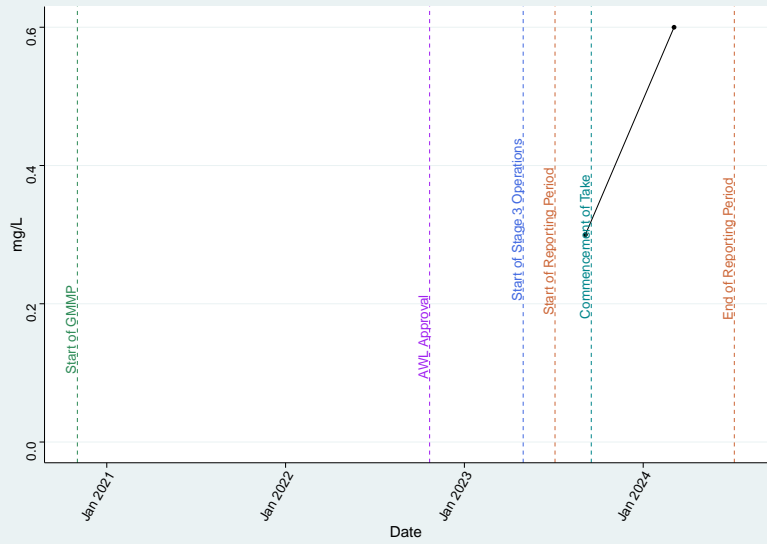
Bore GW17AR (Acland Coal Sequence) – TKN

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



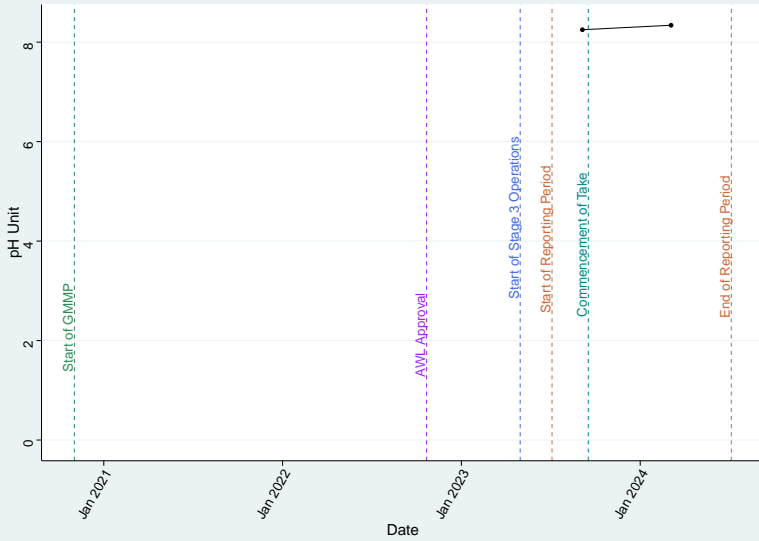
Bore GW17AR (Acland Coal Sequence) – Total_N

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



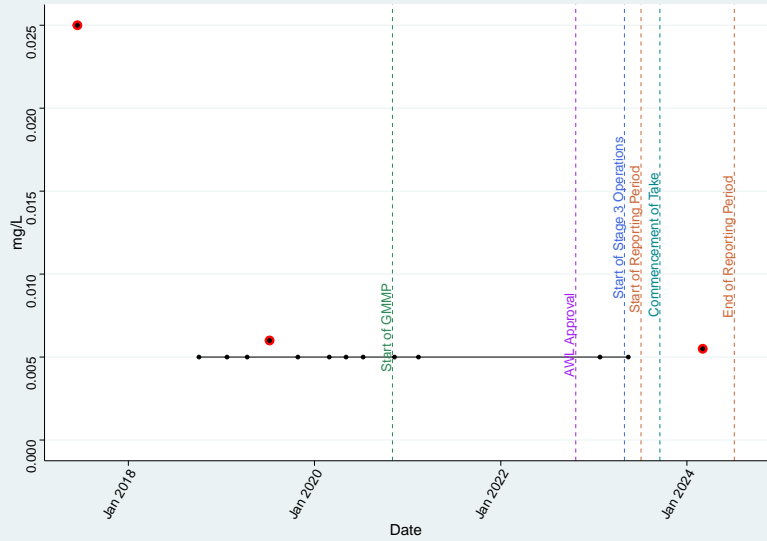
Bore GW17AR (Acland Coal Sequence) – pH_Lab

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



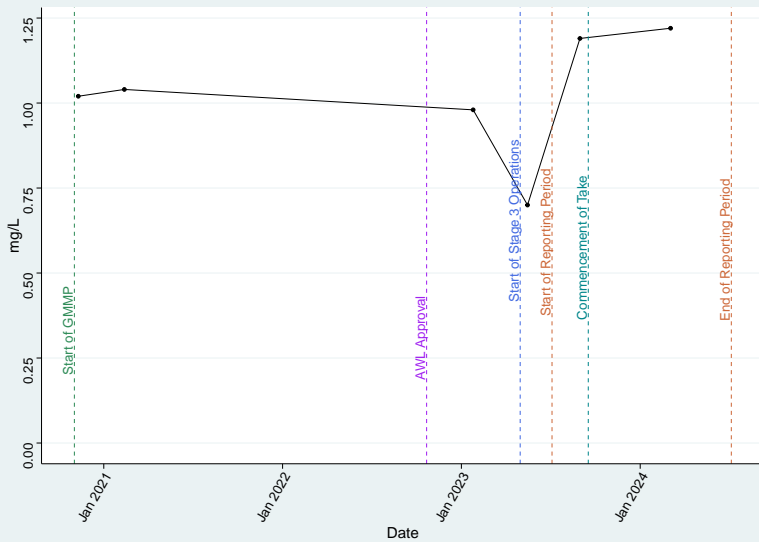
Bore GW19A (Acland Coal Sequence) – Al_diss

Mann Kendall Trend Test | τ = -0.14 | p-value = 0.59 | No trend



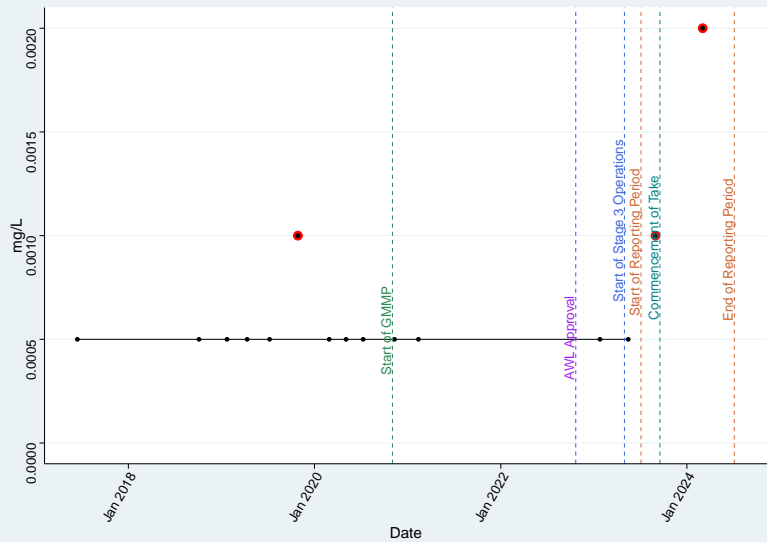
Bore GW19A (Acland Coal Sequence) – Ammonia as N

Mann Kendall Trend Test | τ = 0.333 | p-value = 0.452 | No trend



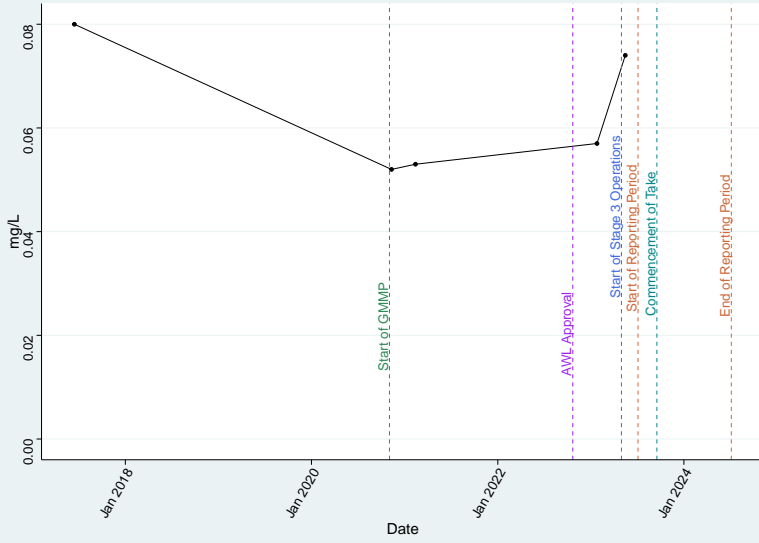
Bore GW19A (Acland Coal Sequence) – As_diss

Mann Kendall Trend Test | τ = 0.38 | p-value = 0.0993 | No trend



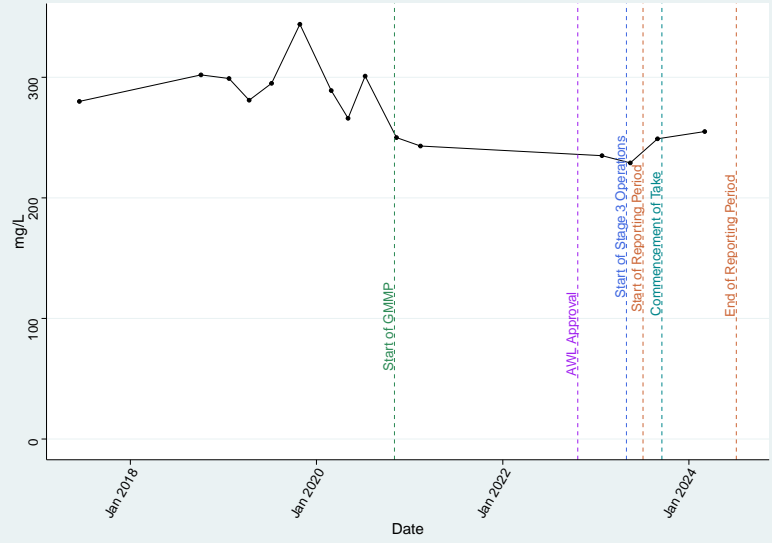
Bore GW19A (Acland Coal Sequence) – Ba_{diss}

Mann Kendall Trend Test | $\tau = 0.2$ | p -value = 0.806 | No trend



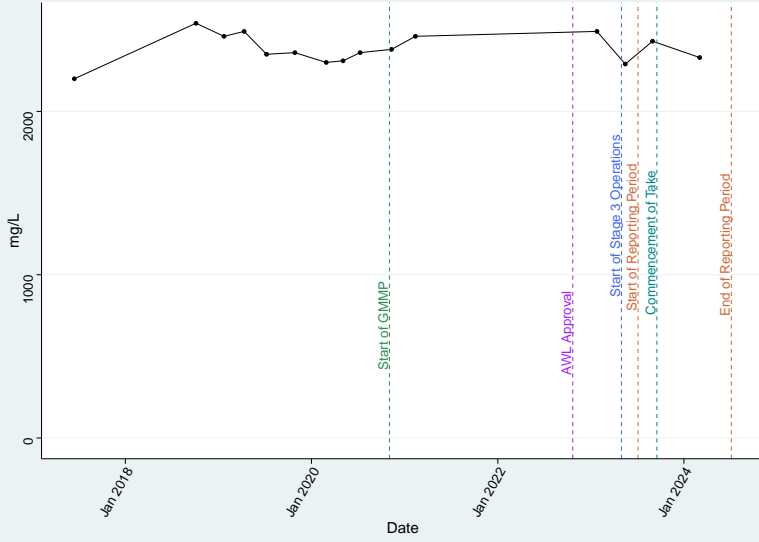
Bore GW19A (Acland Coal Sequence) – Ca

Mann Kendall Trend Test | $\tau = -0.505$ | p -value = 0.0101 | Negative trend



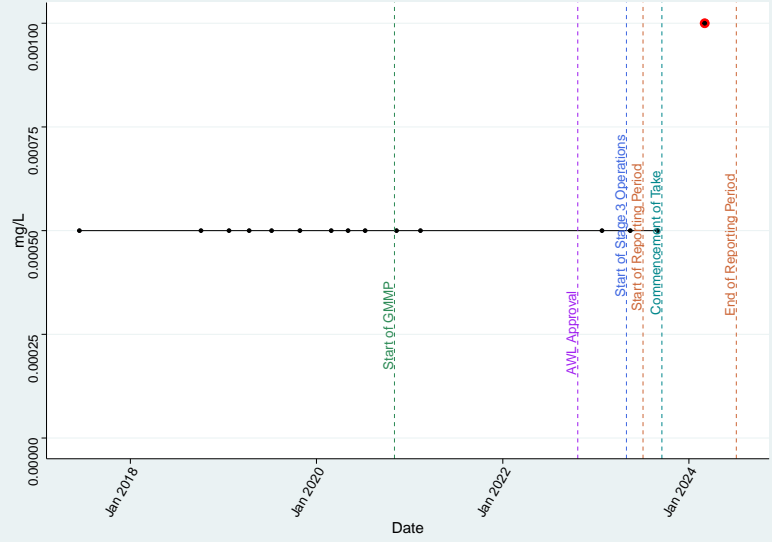
Bore GW19A (Acland Coal Sequence) – Cl

Mann Kendall Trend Test | $\tau = -0.0387$ | p -value = 0.882 | No trend



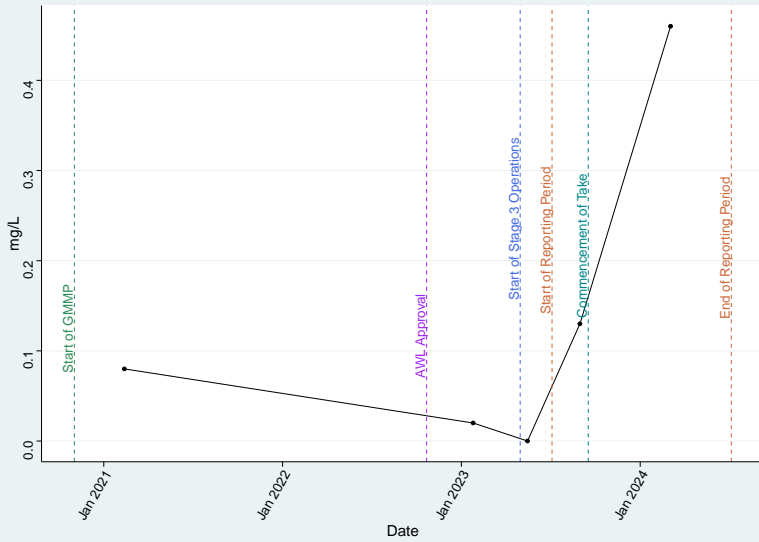
Bore GW19A (Acland Coal Sequence) – Cu_{diss}

Mann Kendall Trend Test | $\tau = 0.365$ | p -value = 0.132 | No trend



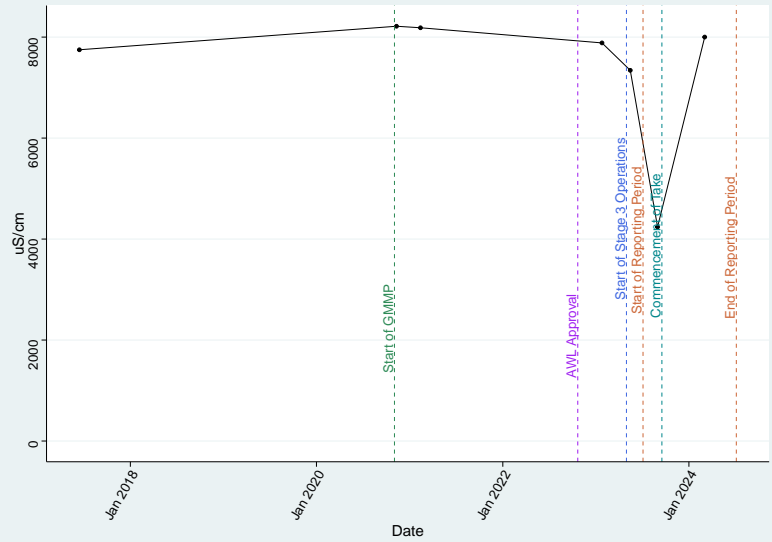
Bore GW19A (Acland Coal Sequence) – DO_{Field}

Mann Kendall Trend Test | $\tau = 0.4$ | p -value = 0.462 | No trend



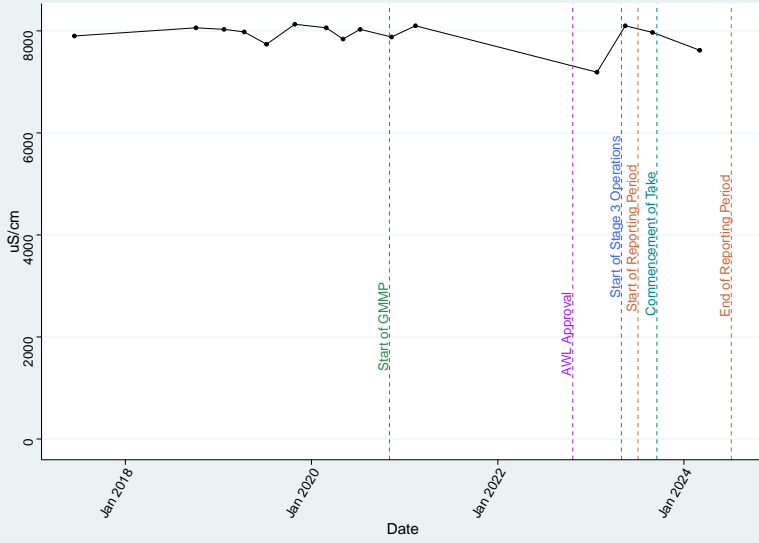
Bore GW19A (Acland Coal Sequence) – EC_{Field}

Mann Kendall Trend Test | $\tau = -0.333$ | p -value = 0.368 | No trend



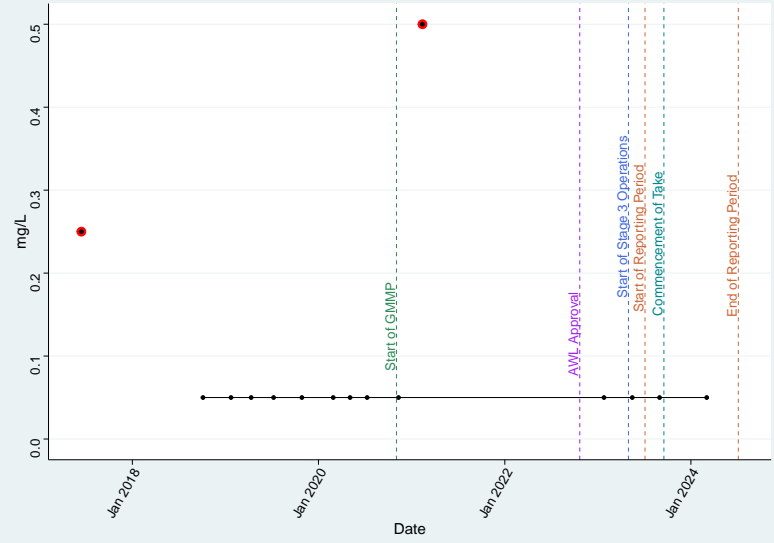
Bore GW19A (Acland Coal Sequence) – EC_Lab

Mann Kendall Trend Test | $\tau = -0.135$ | $p\text{-value} = 0.518$ | No trend



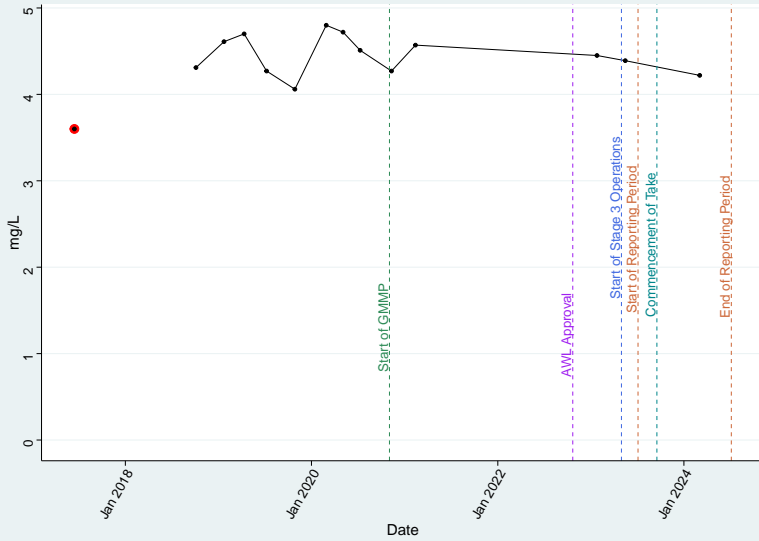
Bore GW19A (Acland Coal Sequence) – F

Mann Kendall Trend Test | $\tau = -0.131$ | $p\text{-value} = 0.612$ | No trend



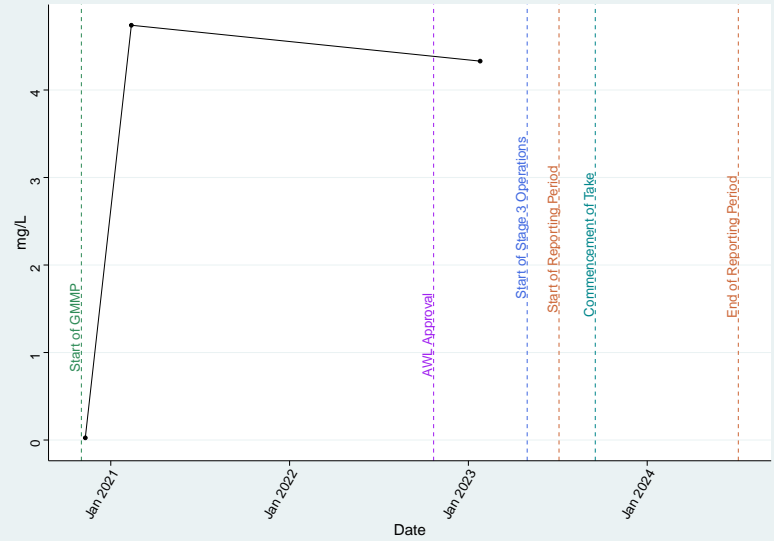
Bore GW19A (Acland Coal Sequence) – Fe_diss

Mann Kendall Trend Test | $\tau = -0.0221$ | $p\text{-value} = 0.956$ | No trend



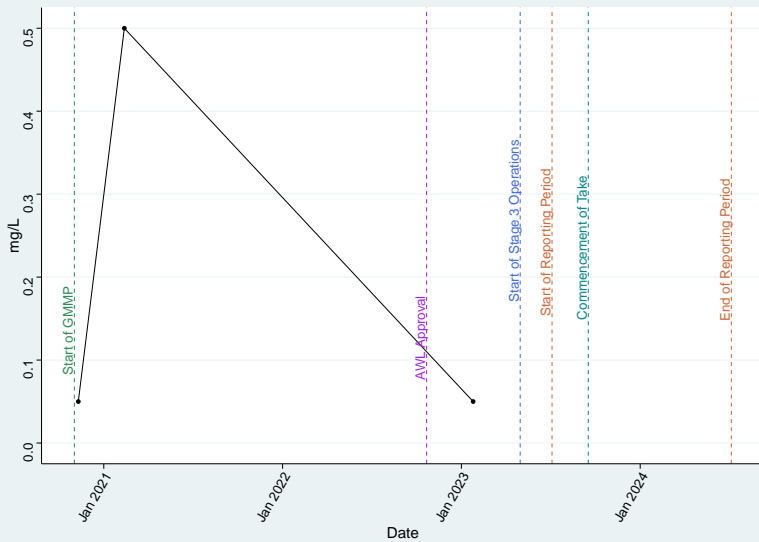
Bore GW19A (Acland Coal Sequence) – Fe2

Mann Kendall Trend Test | $\tau =$ Not enough data | $p\text{-value} =$ Not enough data | Not evaluated



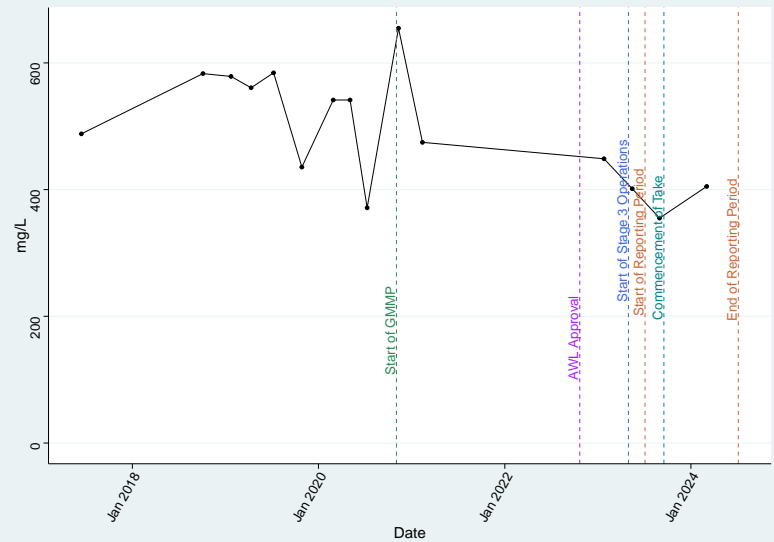
Bore GW19A (Acland Coal Sequence) – H2S

Mann Kendall Trend Test | $\tau =$ Not enough data | $p\text{-value} =$ Not enough data | Not evaluated



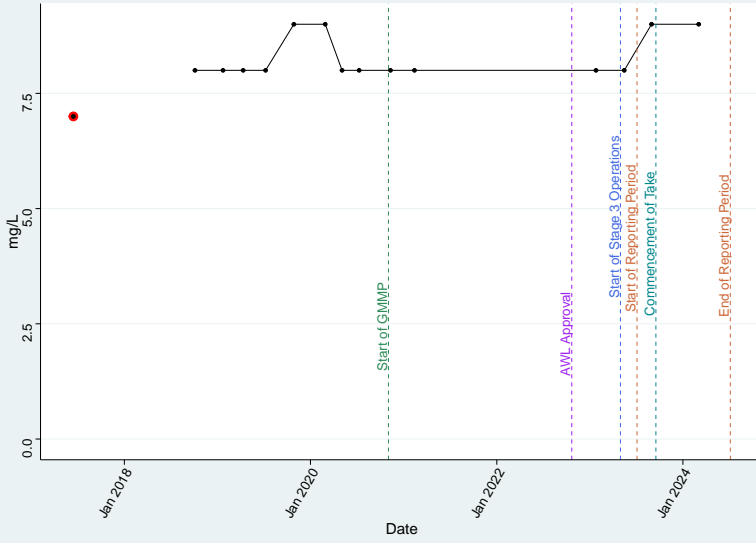
Bore GW19A (Acland Coal Sequence) – HCO3

Mann Kendall Trend Test | $\tau = -0.459$ | $p\text{-value} = 0.0199$ | Negative trend



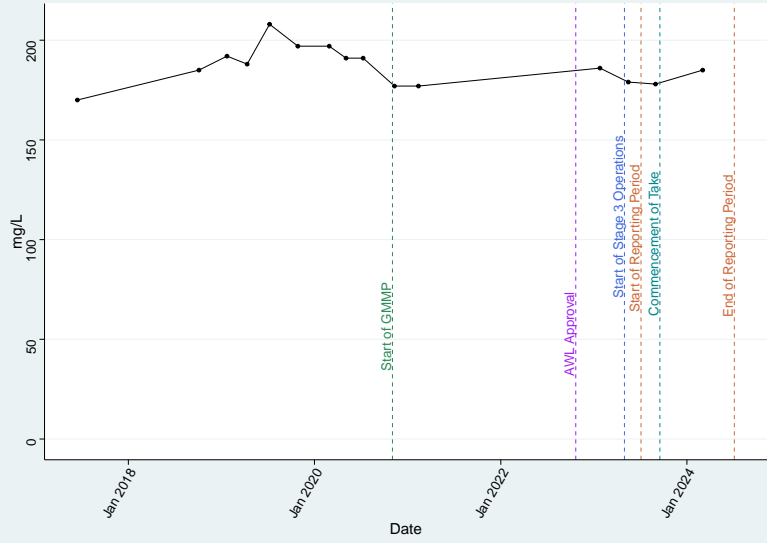
Bore GW19A (Acland Coal Sequence) – K

Mann Kendall Trend Test | $\tau = 0.398$ | $p\text{-value} = 0.0801$ | No trend



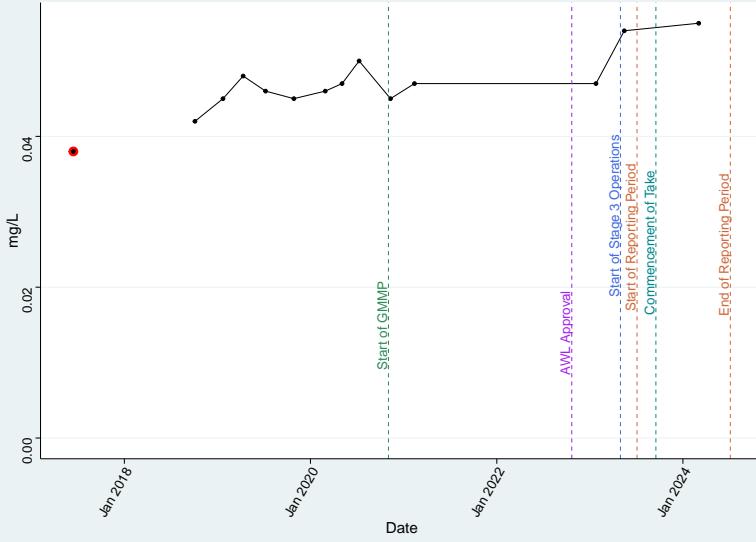
Bore GW19A (Acland Coal Sequence) – Mg

Mann Kendall Trend Test | $\tau = -0.204$ | $p\text{-value} = 0.32$ | No trend



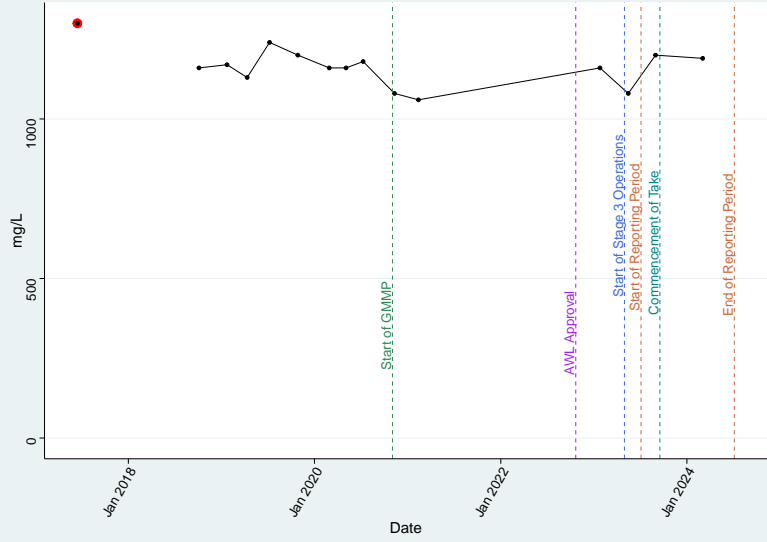
Bore GW19A (Acland Coal Sequence) – Mn_diss

Mann Kendall Trend Test | $\tau = 0.641$ | $p\text{-value} = 0.00229$ | Positive trend



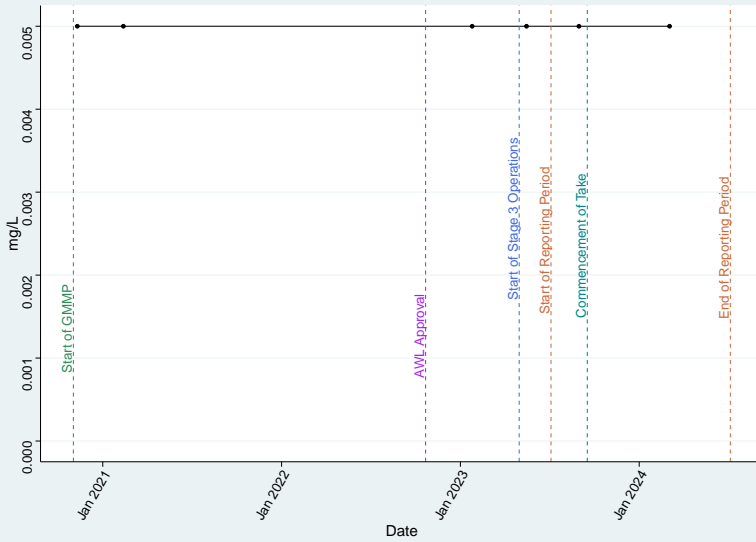
Bore GW19A (Acland Coal Sequence) – Na

Mann Kendall Trend Test | $\tau = -0.208$ | $p\text{-value} = 0.316$ | No trend



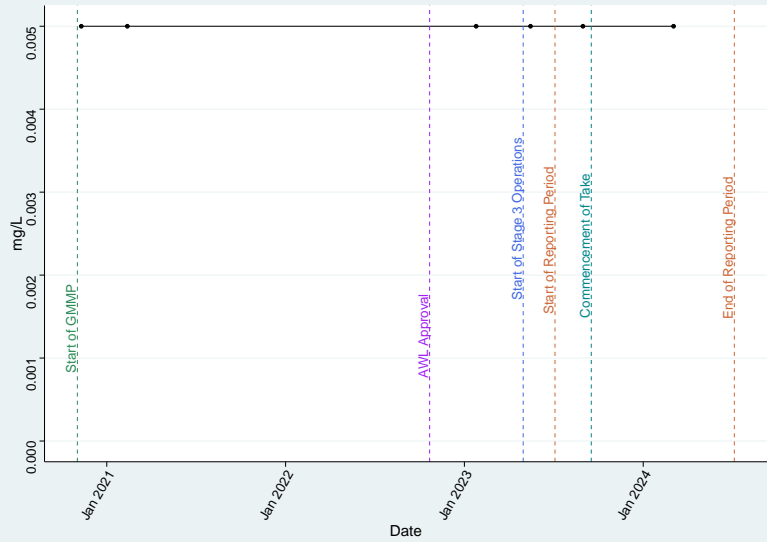
Bore GW19A (Acland Coal Sequence) – Nitrate as N

Mann Kendall Trend Test | $\tau = 1$ | $p\text{-value} = 1$ | No trend

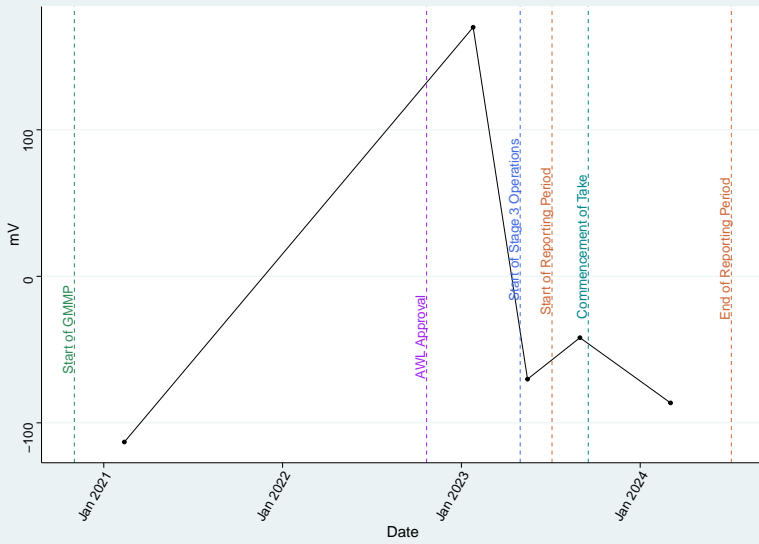


Bore GW19A (Acland Coal Sequence) – Nitrite as N

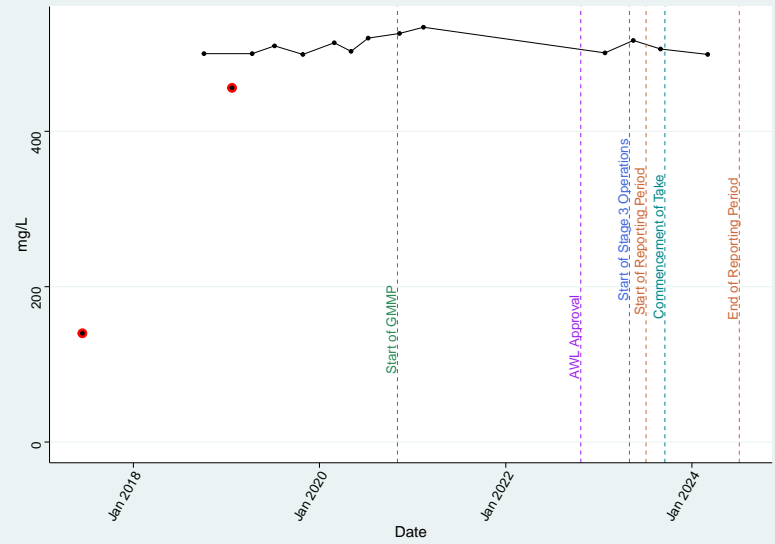
Mann Kendall Trend Test | $\tau = 1$ | $p\text{-value} = 1$ | No trend



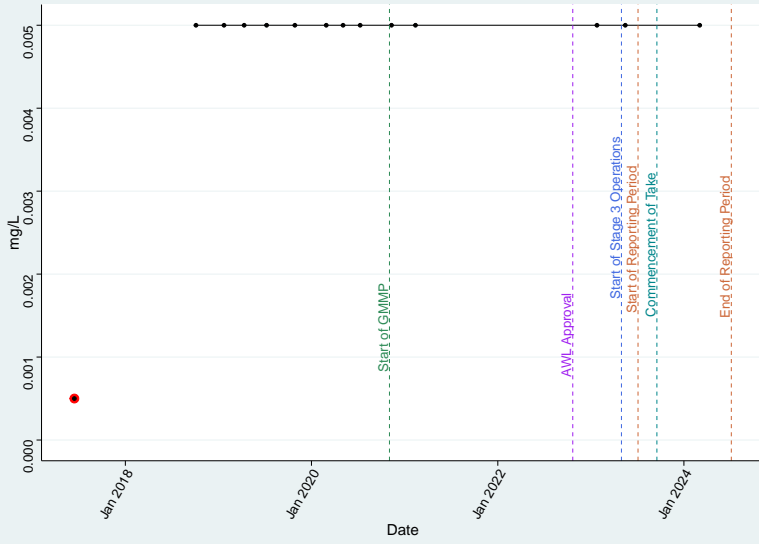
Bore GW19A (Acland Coal Sequence) – Redox_Field
 Mann Kendall Trend Test | $\tau = 0$ | p-value = 1 | No trend



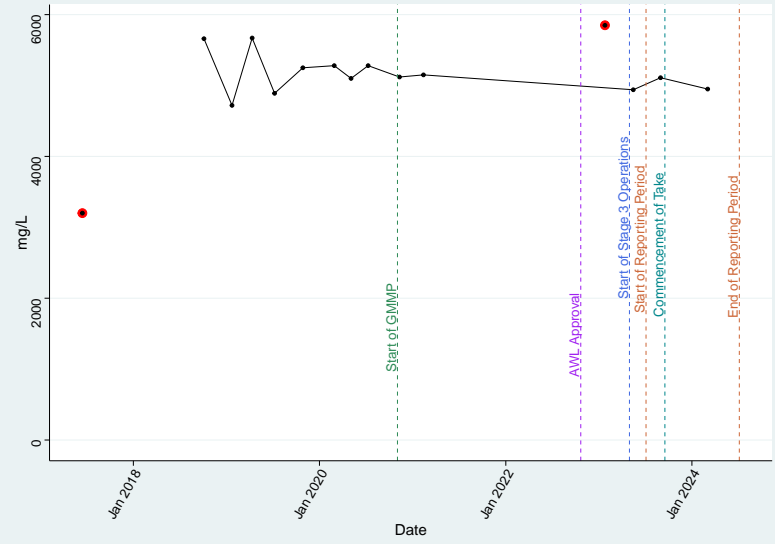
Bore GW19A (Acland Coal Sequence) – SO4
 Mann Kendall Trend Test | $\tau = 0.375$ | p-value = 0.0594 | No trend



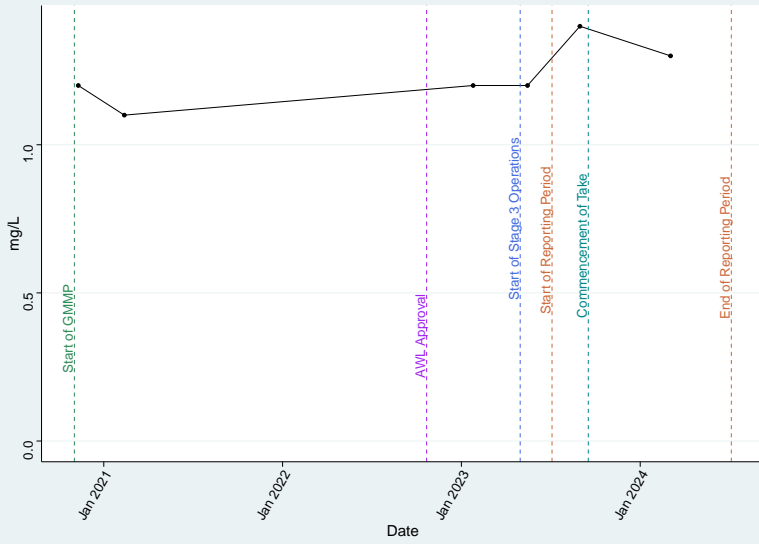
Bore GW19A (Acland Coal Sequence) – Se_diss
 Mann Kendall Trend Test | $\tau = 0.378$ | p-value = 0.137 | No trend



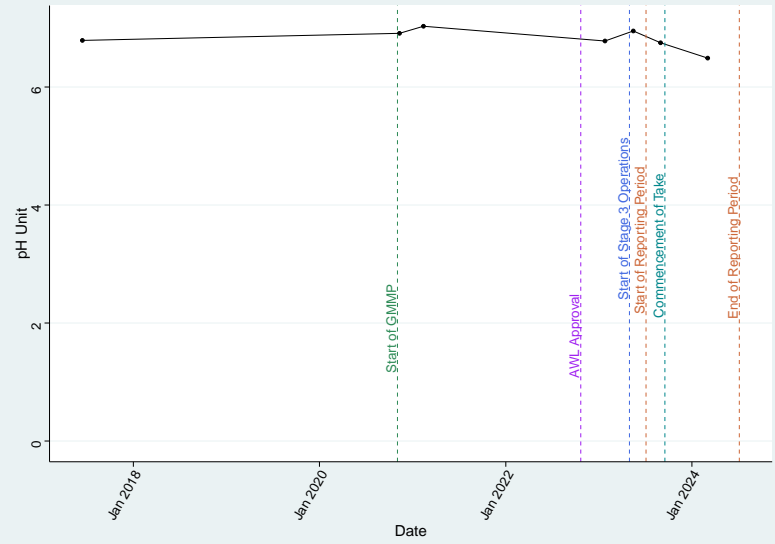
Bore GW19A (Acland Coal Sequence) – TDS
 Mann Kendall Trend Test | $\tau = 0.0383$ | p-value = 0.882 | No trend



Bore GW19A (Acland Coal Sequence) – TKN
 Mann Kendall Trend Test | $\tau = 0.596$ | p-value = 0.159 | No trend

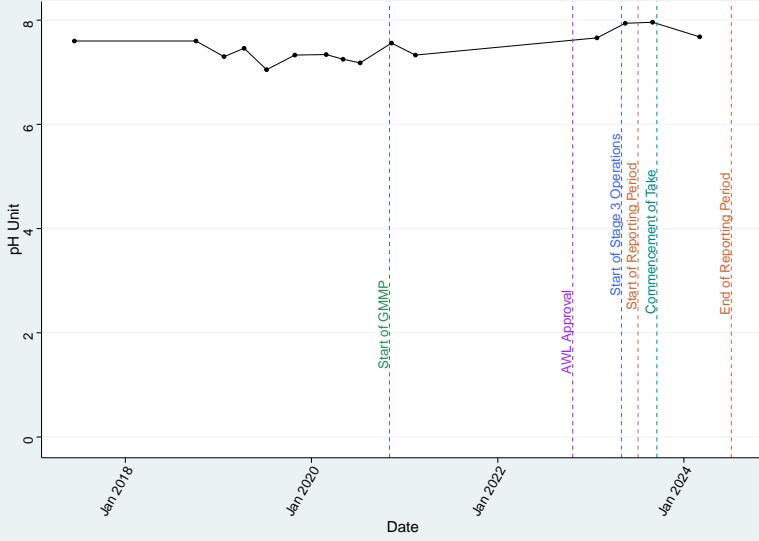


Bore GW19A (Acland Coal Sequence) – pH_Field
 Mann Kendall Trend Test | $\tau = -0.429$ | p-value = 0.23 | No trend



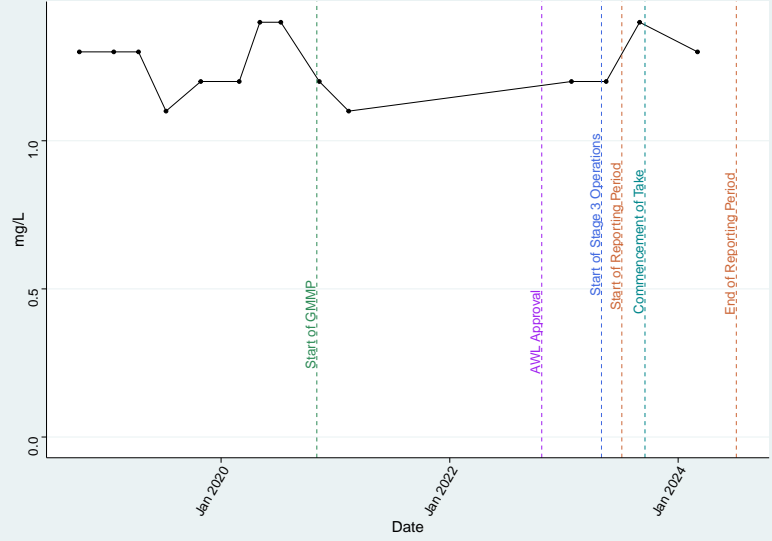
Bore GW19A (Acland Coal Sequence) – pH_Lab

Mann Kendall Trend Test | $\tau = 0.298$ | p-value = 0.137 | No trend



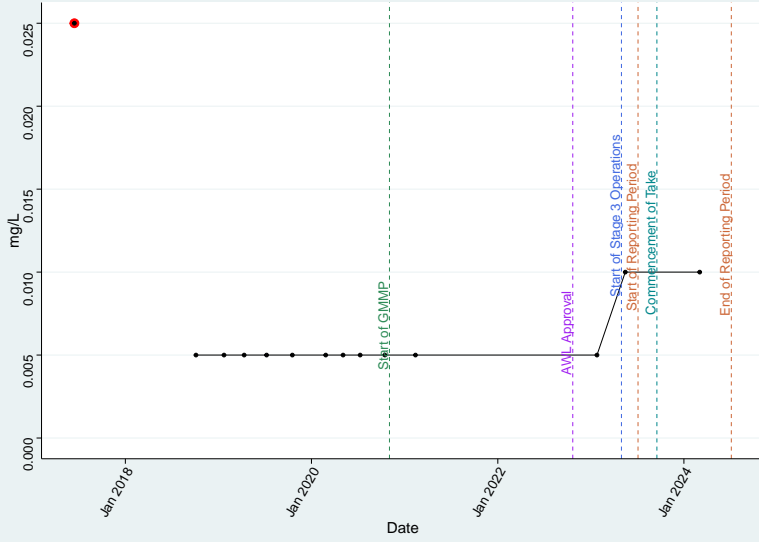
Bore GW19A (Acland Coal Sequence) – Total_N

Mann Kendall Trend Test | $\tau = 0.0124$ | p-value = 1 | No trend



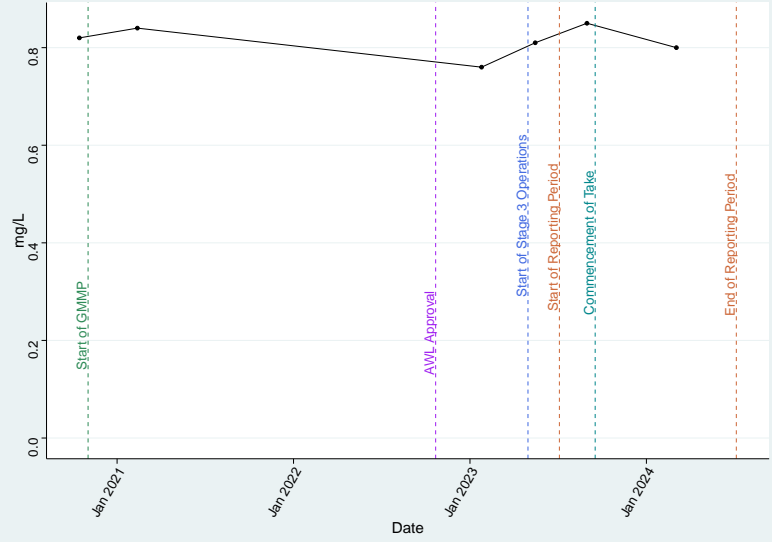
Bore GW19B (Balgowan Coal Sequence) – Al_diss

Mann Kendall Trend Test | $\tau = 0.159$ | p-value = 0.537 | No trend



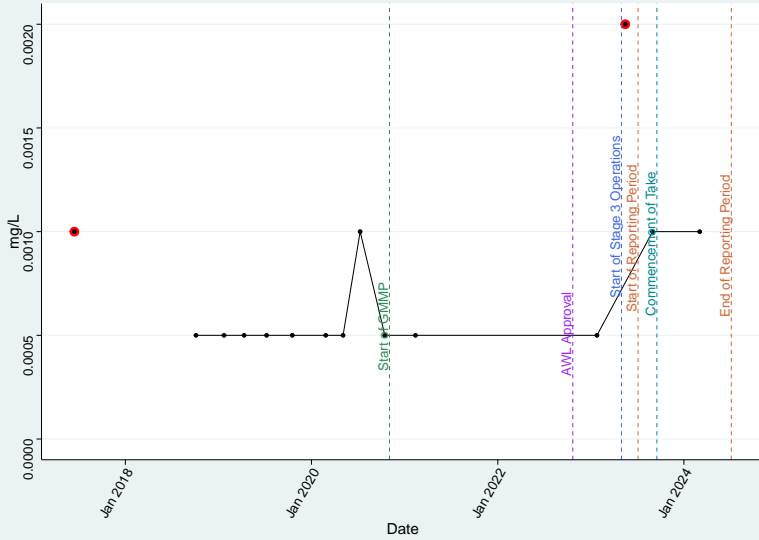
Bore GW19B (Balgowan Coal Sequence) – Ammonia as N

Mann Kendall Trend Test | $\tau = -0.0667$ | p-value = 1 | No trend



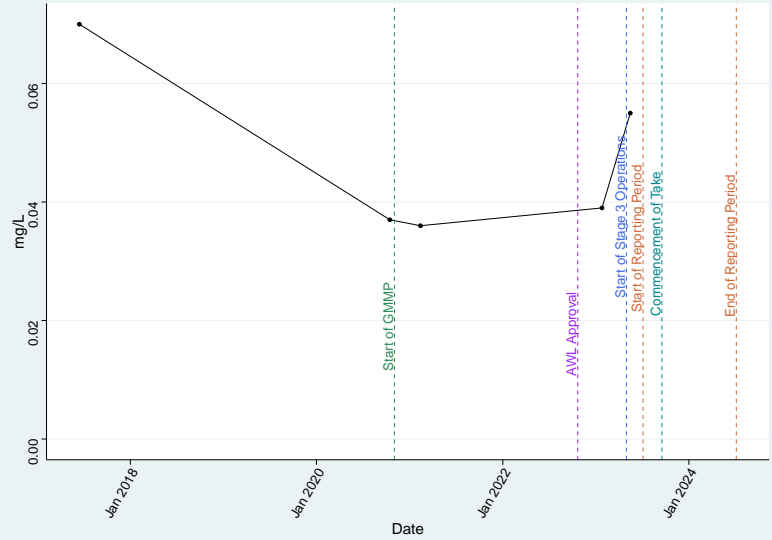
Bore GW19B (Balgowan Coal Sequence) – As_diss

Mann Kendall Trend Test | $\tau = 0.319$ | p-value = 0.165 | No trend



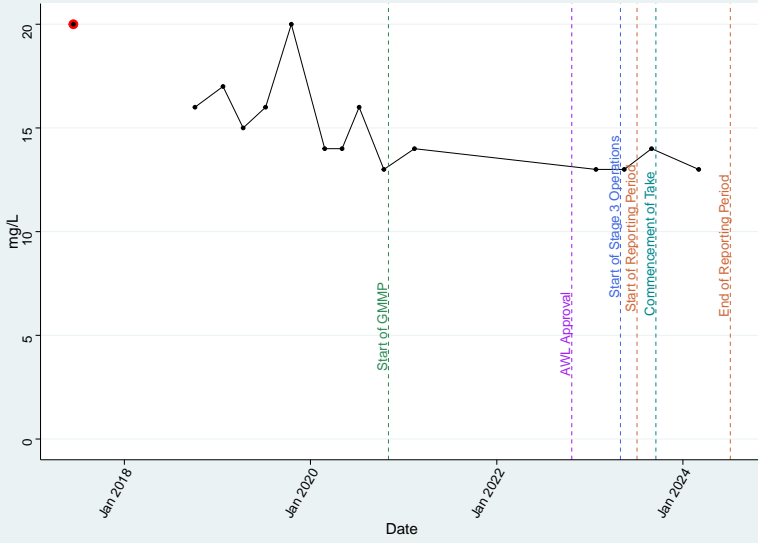
Bore GW19B (Balgowan Coal Sequence) – Ba_diss

Mann Kendall Trend Test | $\tau = 0$ | p-value = 1 | No trend



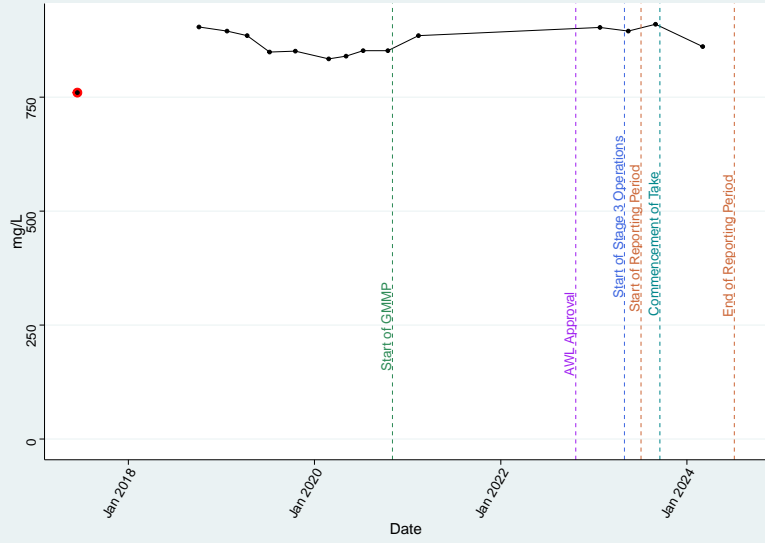
Bore GW19B (Balgowan Coal Sequence) – Ca

Mann Kendall Trend Test | $\tau = -0.652$ | p-value = 0.00161 | Negative trend



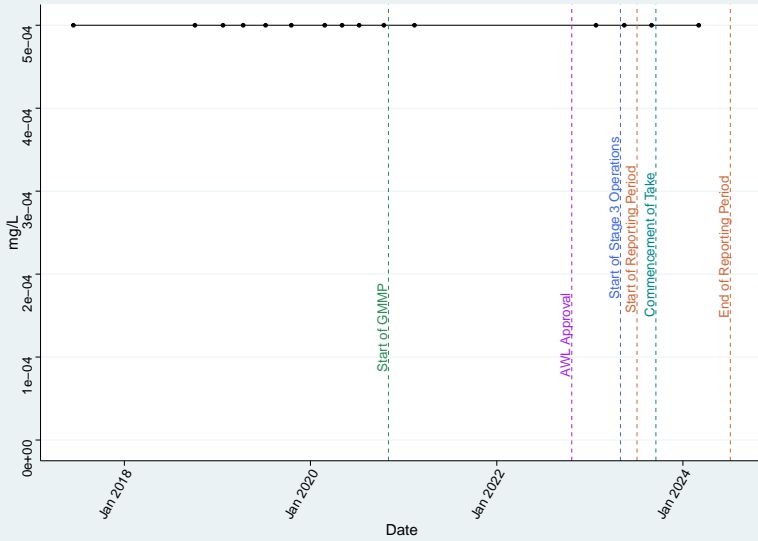
Bore GW19B (Balgowan Coal Sequence) – Cl

Mann Kendall Trend Test | $\tau = 0.271$ | p-value = 0.18 | No trend



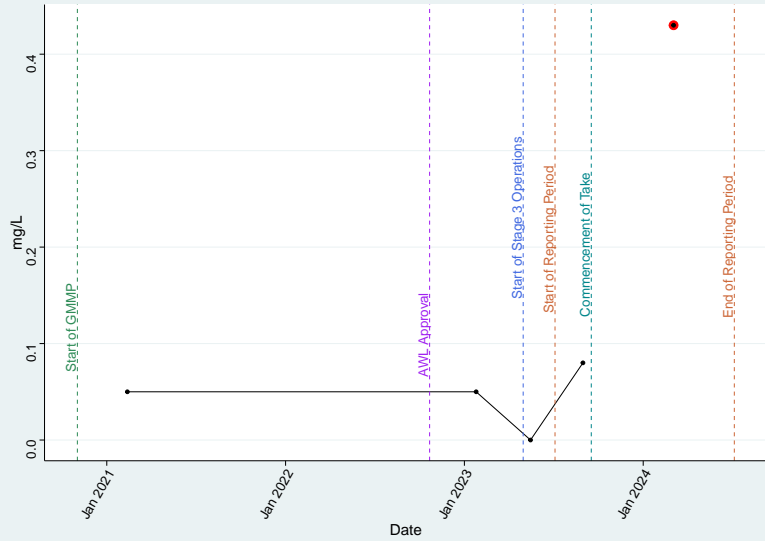
Bore GW19B (Balgowan Coal Sequence) – Cu_diss

Mann Kendall Trend Test | $\tau = 1$ | p-value = 1 | No trend



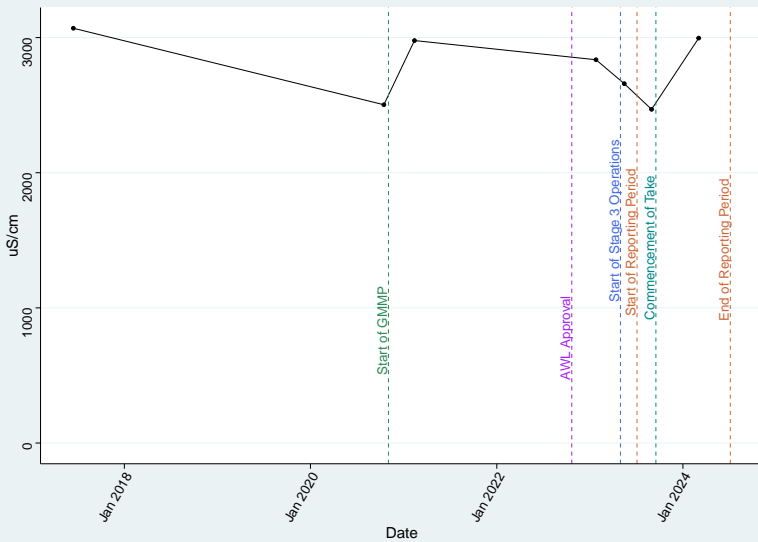
Bore GW19B (Balgowan Coal Sequence) – DO_Field

Mann Kendall Trend Test | $\tau = 0.527$ | p-value = 0.312 | No trend



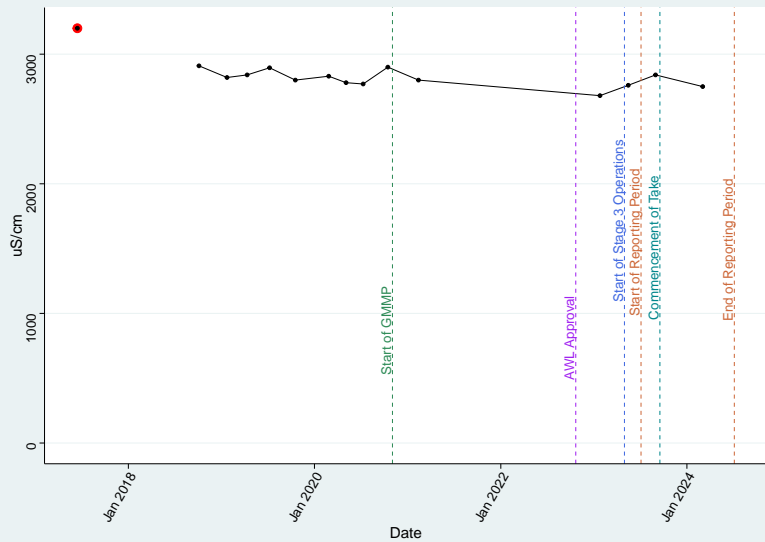
Bore GW19B (Balgowan Coal Sequence) – EC_Field

Mann Kendall Trend Test | $\tau = -0.238$ | p-value = 0.548 | No trend



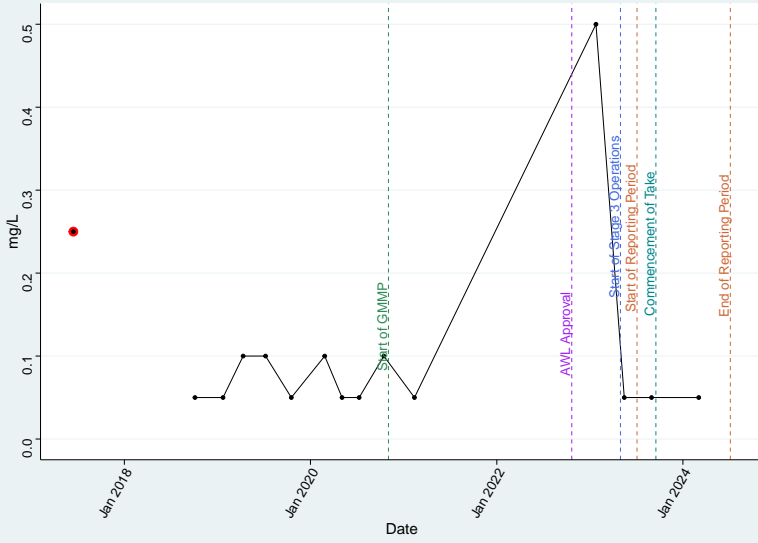
Bore GW19B (Balgowan Coal Sequence) – EC_Lab

Mann Kendall Trend Test | $\tau = -0.529$ | p-value = 0.00739 | Negative trend



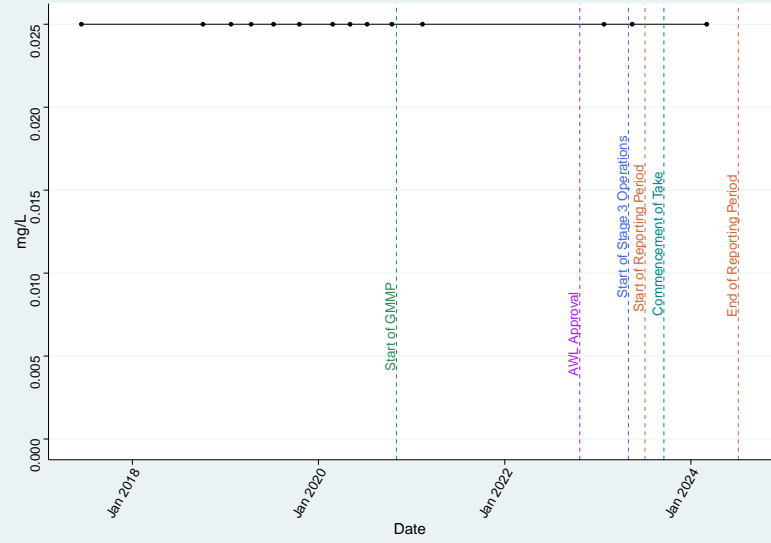
Bore GW19B (Balgowan Coal Sequence) – F

Mann Kendall Trend Test | $\tau = -0.209$ | $p\text{-value} = 0.362$ | No trend



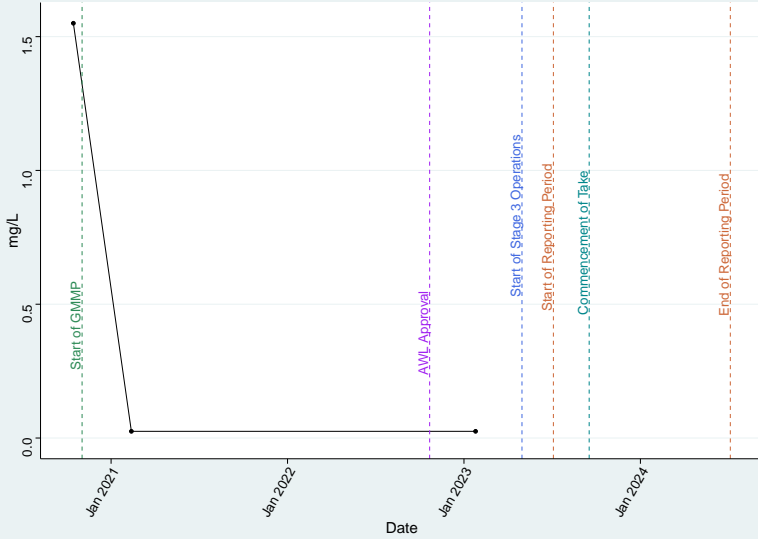
Bore GW19B (Balgowan Coal Sequence) – Fe_diss

Mann Kendall Trend Test | $\tau = 1$ | $p\text{-value} = 1$ | No trend



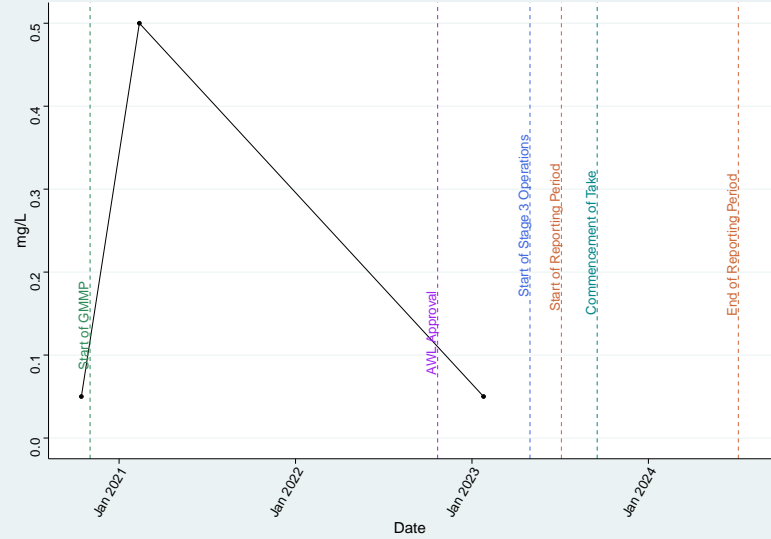
Bore GW19B (Balgowan Coal Sequence) – Fe2

Mann Kendall Trend Test | $\tau =$ Not enough data | $p\text{-value} =$ Not enough data | Not evaluated



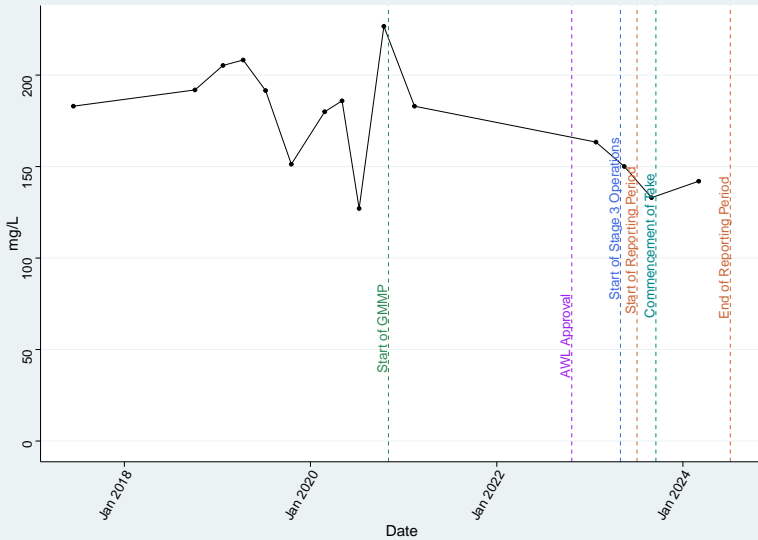
Bore GW19B (Balgowan Coal Sequence) – H2S

Mann Kendall Trend Test | $\tau =$ Not enough data | $p\text{-value} =$ Not enough data | Not evaluated



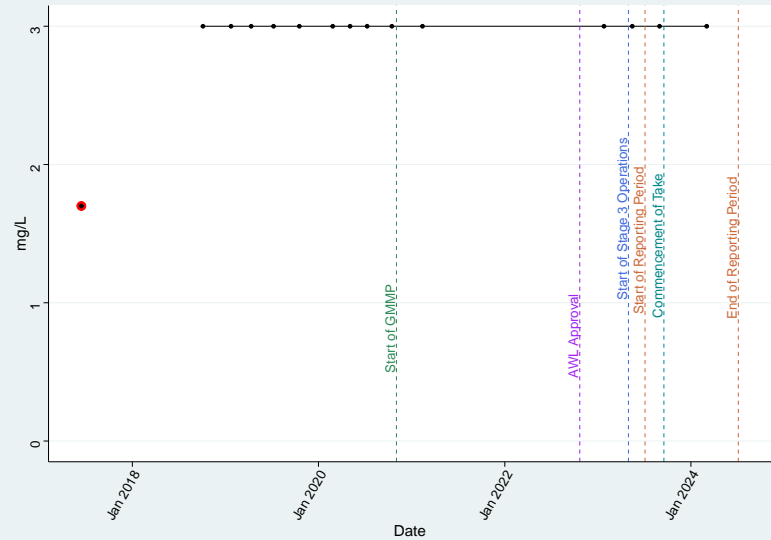
Bore GW19B (Balgowan Coal Sequence) – HCO3

Mann Kendall Trend Test | $\tau = -0.44$ | $p\text{-value} = 0.0258$ | Negative trend



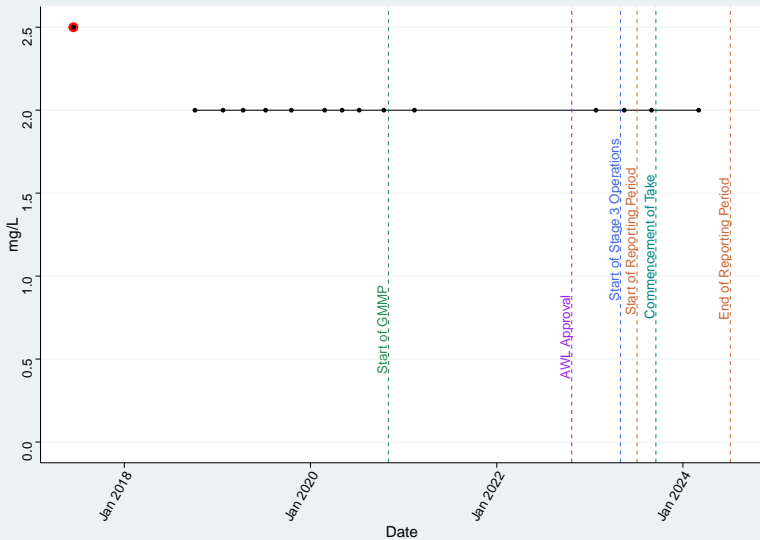
Bore GW19B (Balgowan Coal Sequence) – K

Mann Kendall Trend Test | $\tau = 0.365$ | $p\text{-value} = 0.132$ | No trend



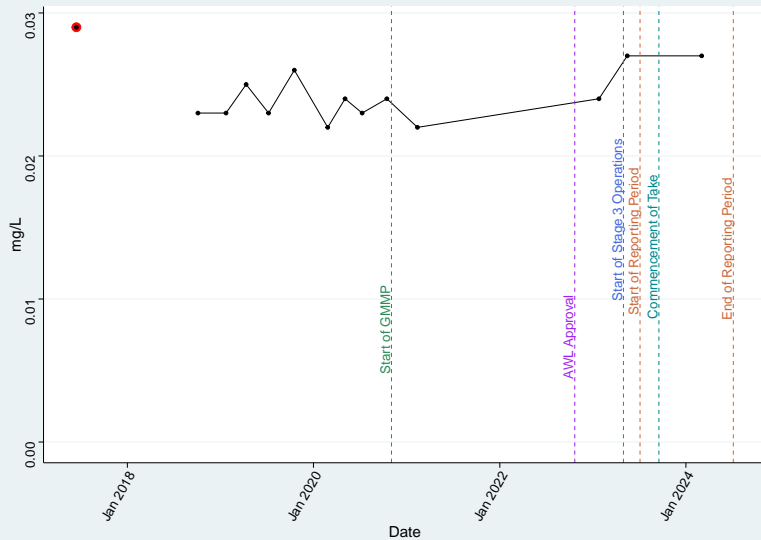
Bore GW19B (Balgowan Coal Sequence) – Mg

Mann Kendall Trend Test | $\tau = -0.365$ | $p\text{-value} = 0.132$ | No trend



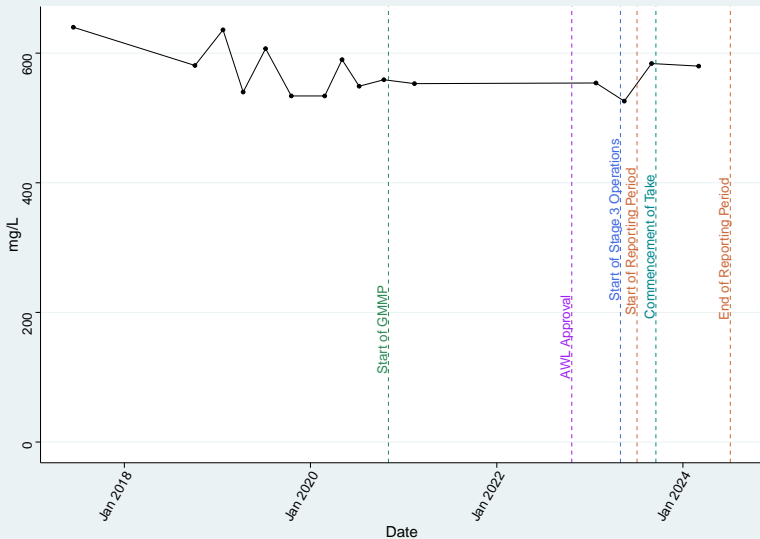
Bore GW19B (Balgowan Coal Sequence) – Mn_diss

Mann Kendall Trend Test | $\tau = 0.0938$ | $p\text{-value} = 0.695$ | No trend



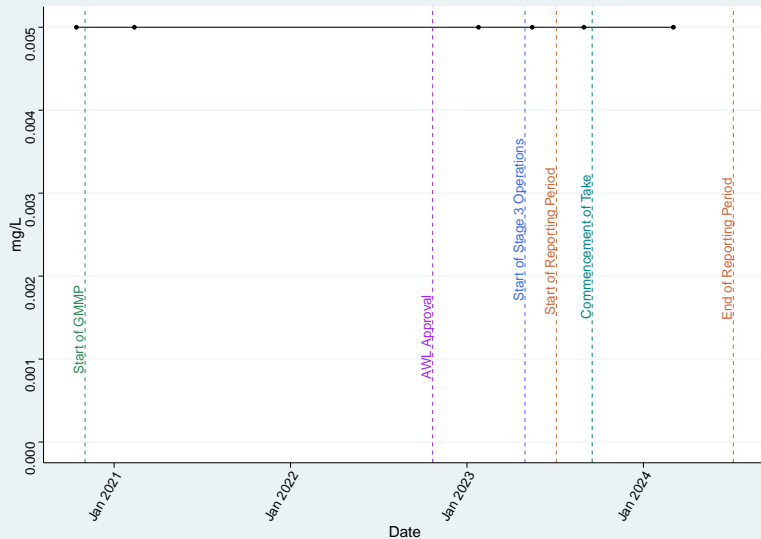
Bore GW19B (Balgowan Coal Sequence) – Na

Mann Kendall Trend Test | $\tau = -0.23$ | $p\text{-value} = 0.254$ | No trend



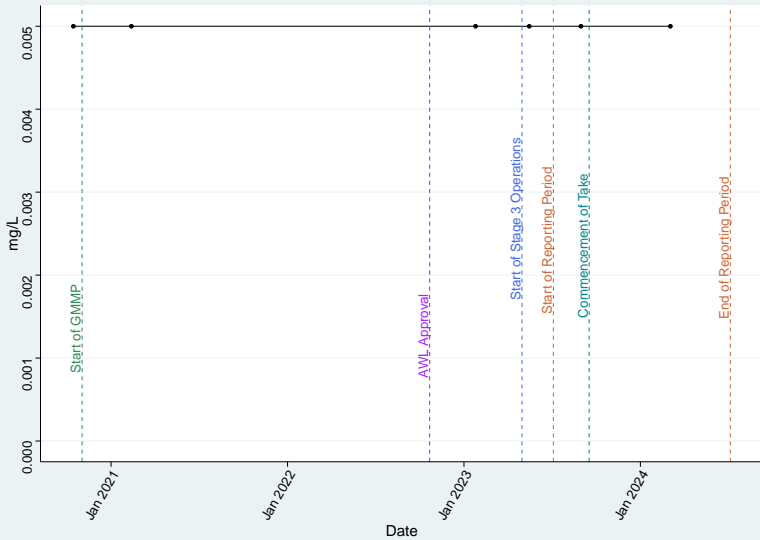
Bore GW19B (Balgowan Coal Sequence) – Nitrate as N

Mann Kendall Trend Test | $\tau = 1$ | $p\text{-value} = 1$ | No trend



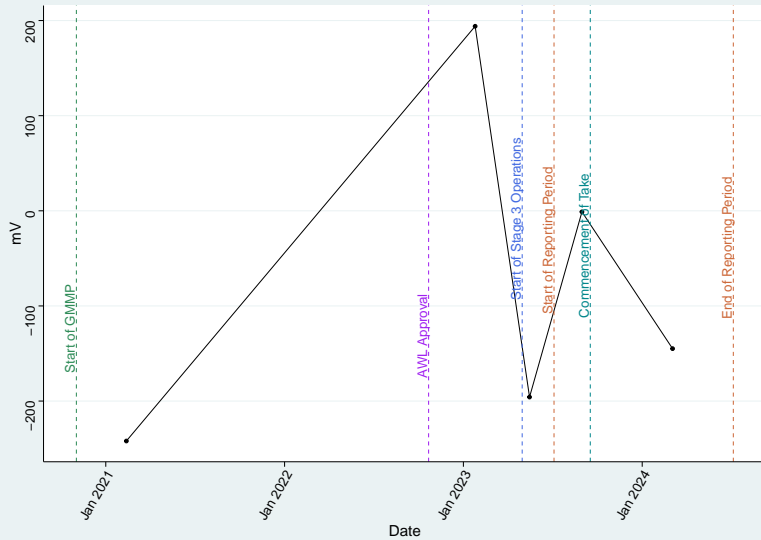
Bore GW19B (Balgowan Coal Sequence) – Nitrite as N

Mann Kendall Trend Test | $\tau = 1$ | $p\text{-value} = 1$ | No trend



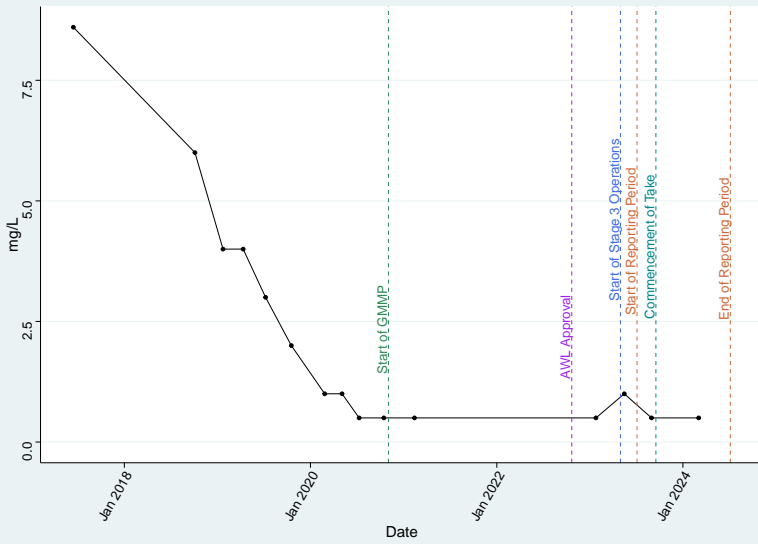
Bore GW19B (Balgowan Coal Sequence) – Redox_Field

Mann Kendall Trend Test | $\tau = 0.2$ | $p\text{-value} = 0.806$ | No trend



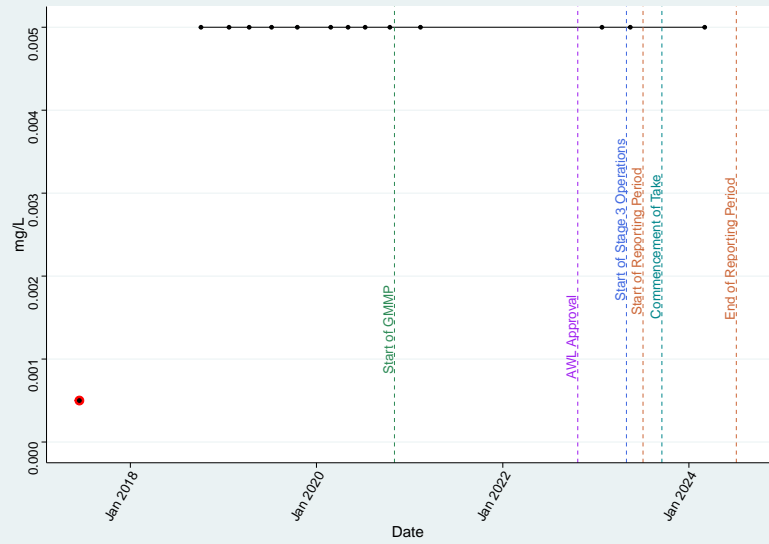
Bore GW19B (Balgowan Coal Sequence) – SO4

Mann Kendall Trend Test | $\tau = -0.821$ | p-value = 0.000705 | Negative trend



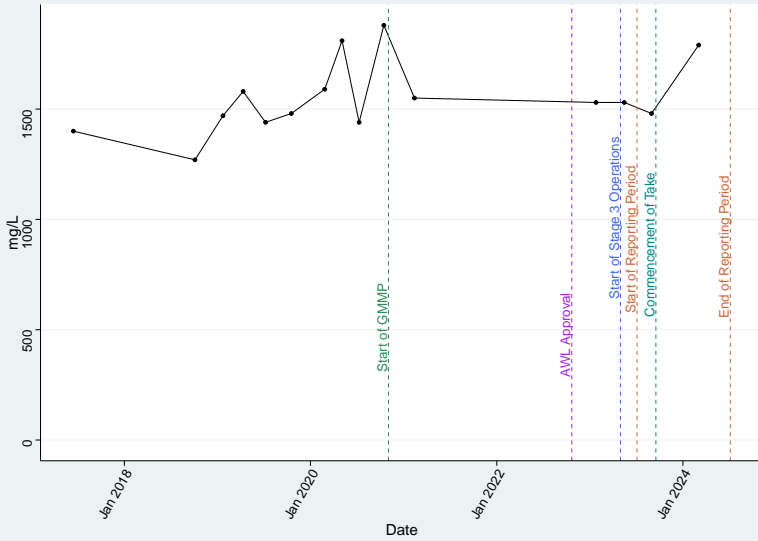
Bore GW19B (Balgowan Coal Sequence) – Se_diss

Mann Kendall Trend Test | $\tau = 0.378$ | p-value = 0.137 | No trend



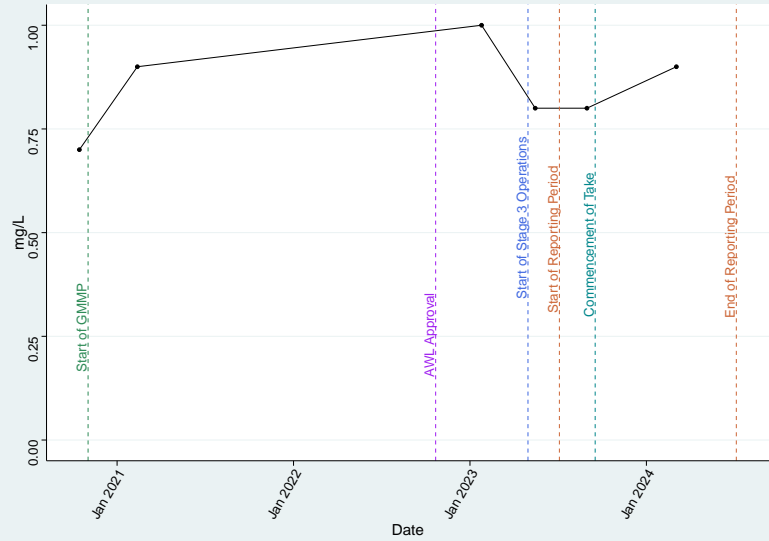
Bore GW19B (Balgowan Coal Sequence) – TDS

Mann Kendall Trend Test | $\tau = 0.367$ | p-value = 0.0661 | No trend



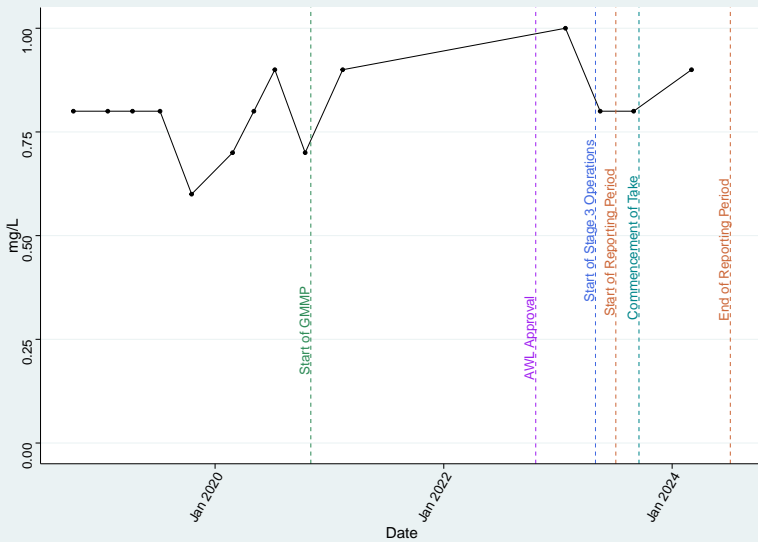
Bore GW19B (Balgowan Coal Sequence) – TKN

Mann Kendall Trend Test | $\tau = 0.215$ | p-value = 0.697 | No trend



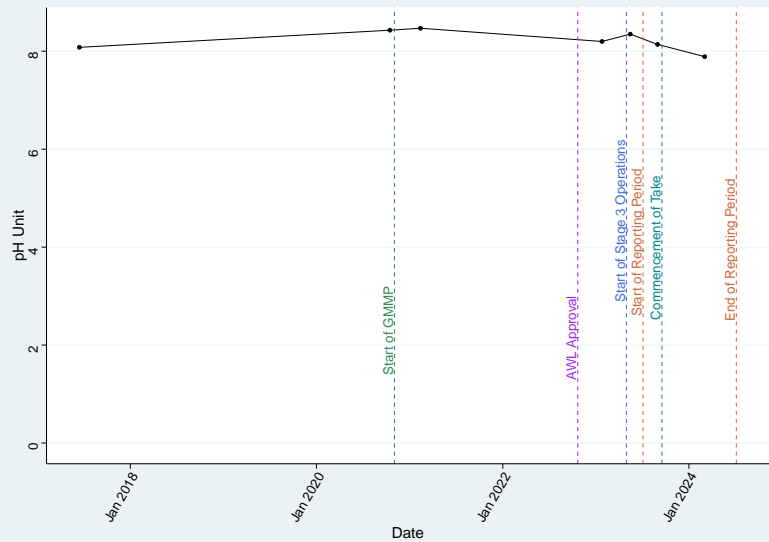
Bore GW19B (Balgowan Coal Sequence) – Total_N

Mann Kendall Trend Test | $\tau = 0.31$ | p-value = 0.173 | No trend



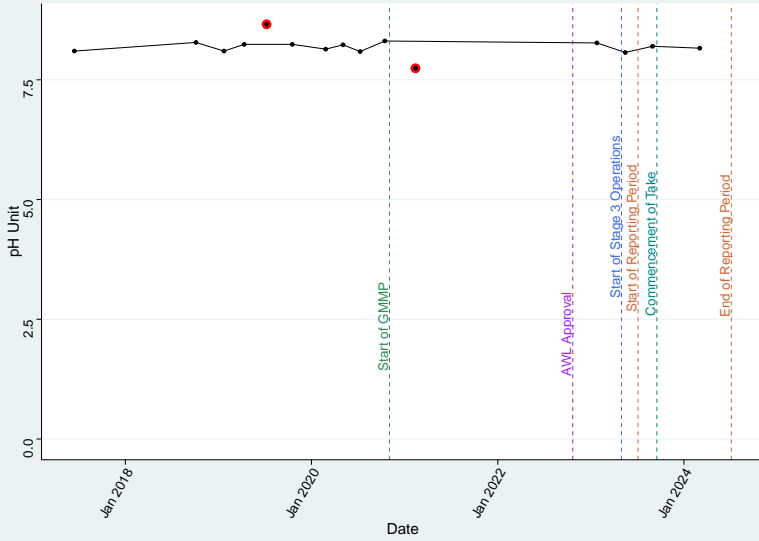
Bore GW19B (Balgowan Coal Sequence) – pH_Field

Mann Kendall Trend Test | $\tau = -0.333$ | p-value = 0.368 | No trend



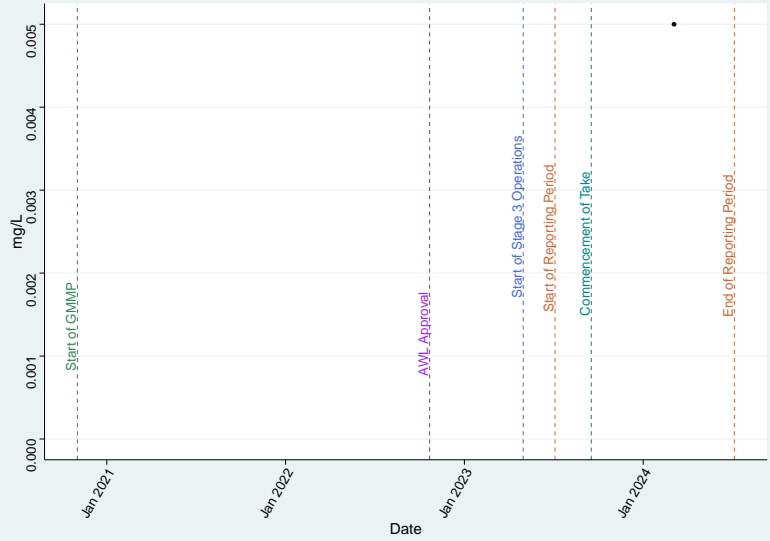
Bore GW19B (Balgowan Coal Sequence) – pH_Lab

Mann Kendall Trend Test | $\tau = -0.163$ | $p\text{-value} = 0.427$ | No trend



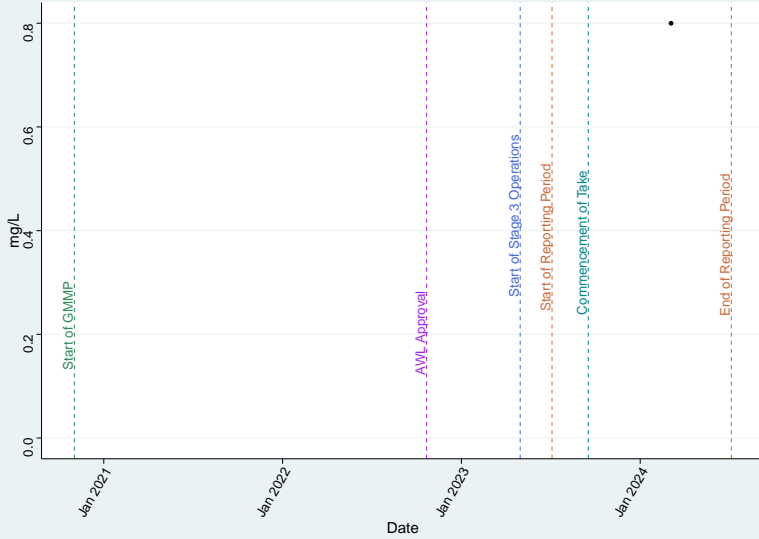
Bore M1 (Marburg Sandstone) – Al_diss

Mann Kendall Trend Test | $\tau =$ Not enough data | $p\text{-value} =$ Not enough data | Not evaluated



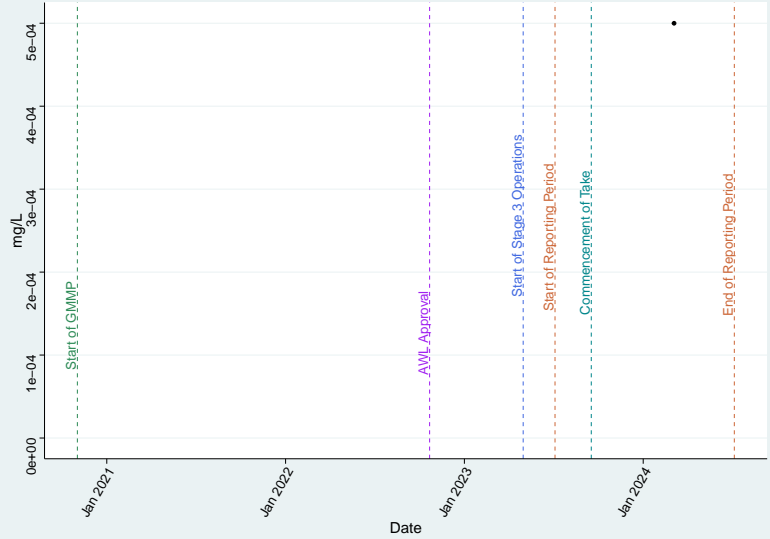
Bore M1 (Marburg Sandstone) – Ammonia as N

Mann Kendall Trend Test | $\tau =$ Not enough data | $p\text{-value} =$ Not enough data | Not evaluated



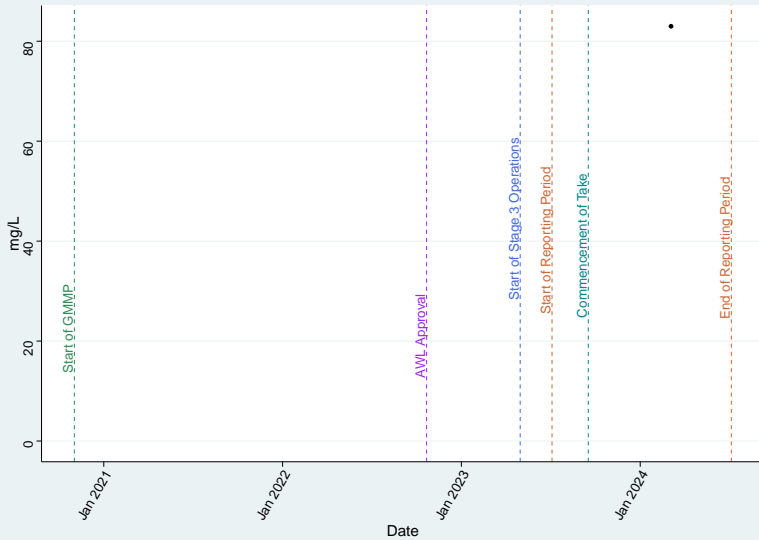
Bore M1 (Marburg Sandstone) – As_diss

Mann Kendall Trend Test | $\tau =$ Not enough data | $p\text{-value} =$ Not enough data | Not evaluated



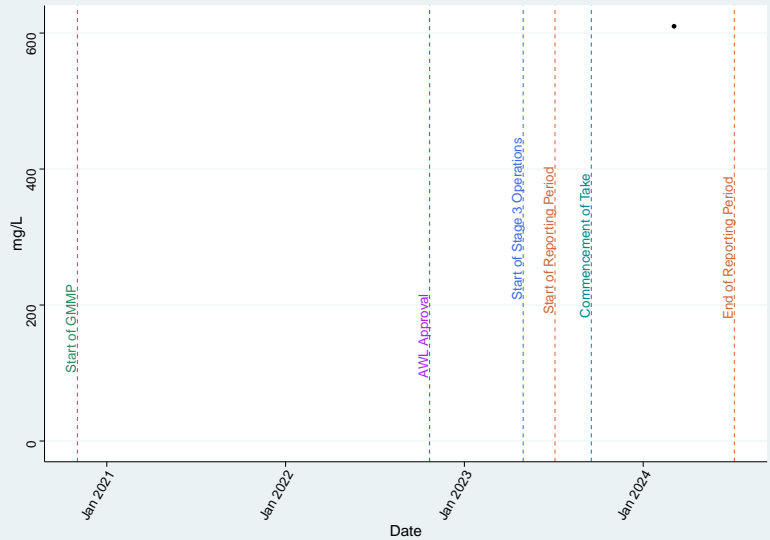
Bore M1 (Marburg Sandstone) – Ca

Mann Kendall Trend Test | $\tau =$ Not enough data | $p\text{-value} =$ Not enough data | Not evaluated



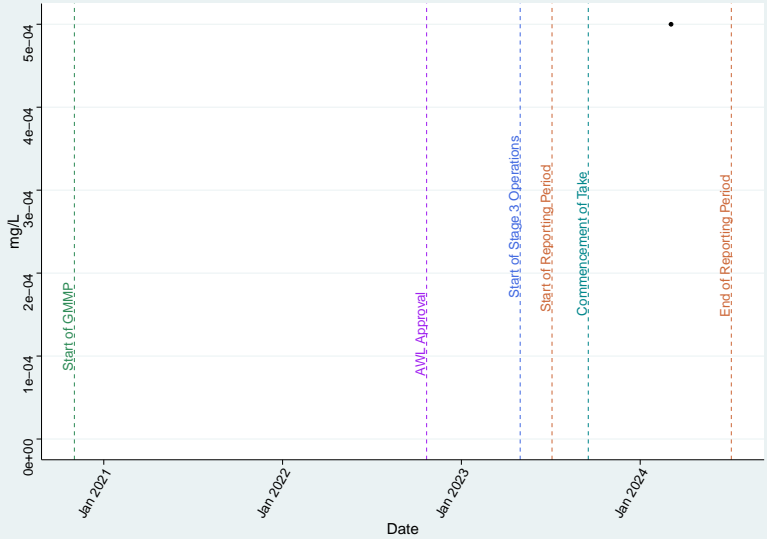
Bore M1 (Marburg Sandstone) – Cl

Mann Kendall Trend Test | $\tau =$ Not enough data | $p\text{-value} =$ Not enough data | Not evaluated



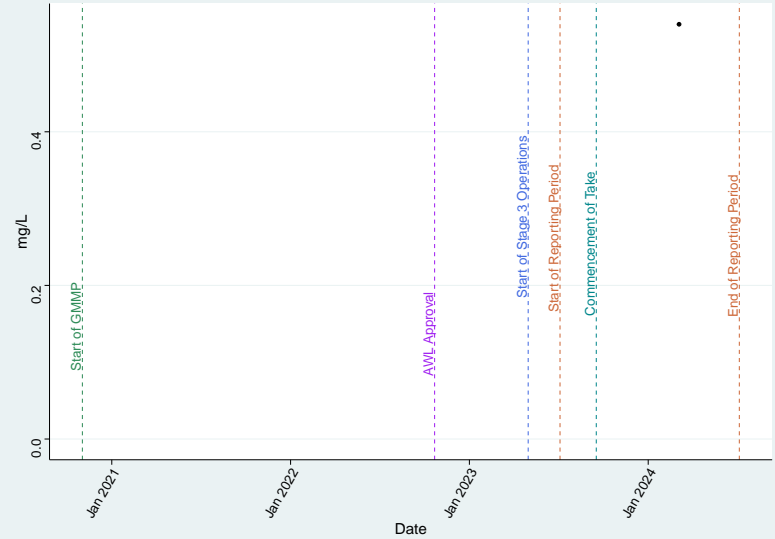
Bore M1 (Marburg Sandstone) – Cu_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



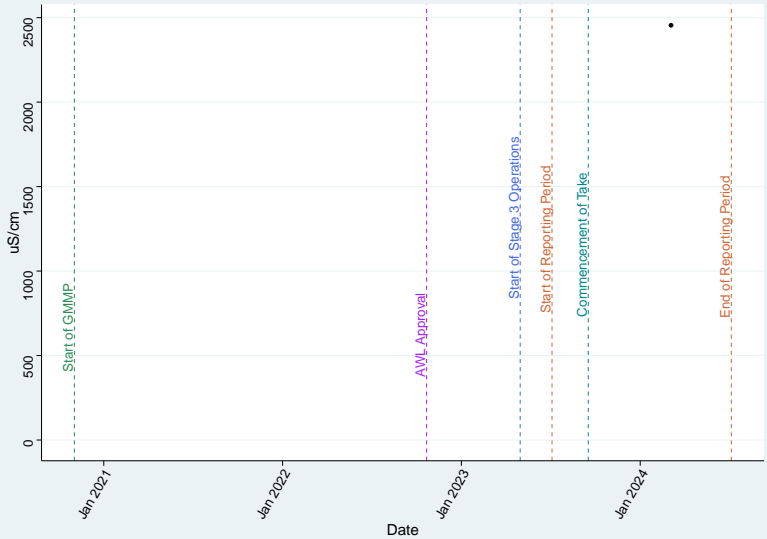
Bore M1 (Marburg Sandstone) – DO_Field

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



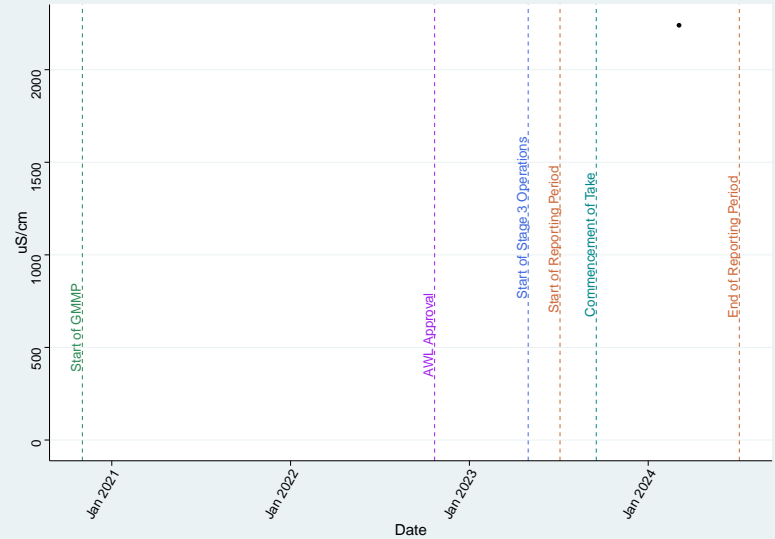
Bore M1 (Marburg Sandstone) – EC_Field

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



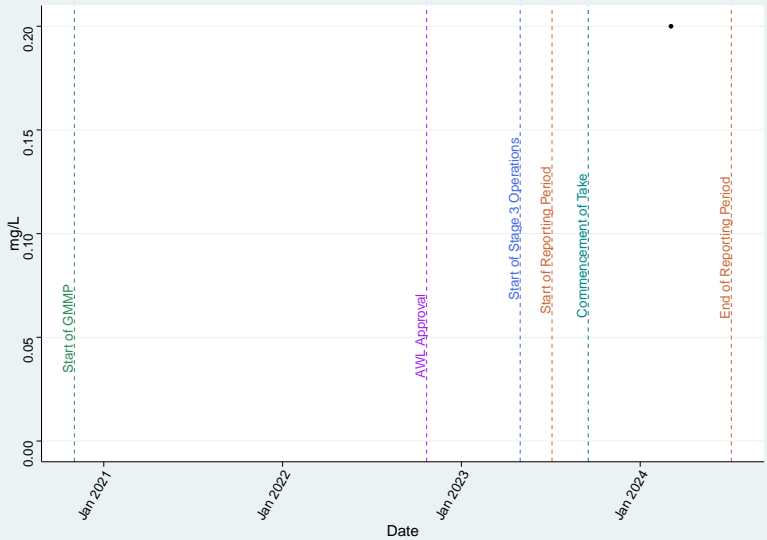
Bore M1 (Marburg Sandstone) – EC_Lab

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



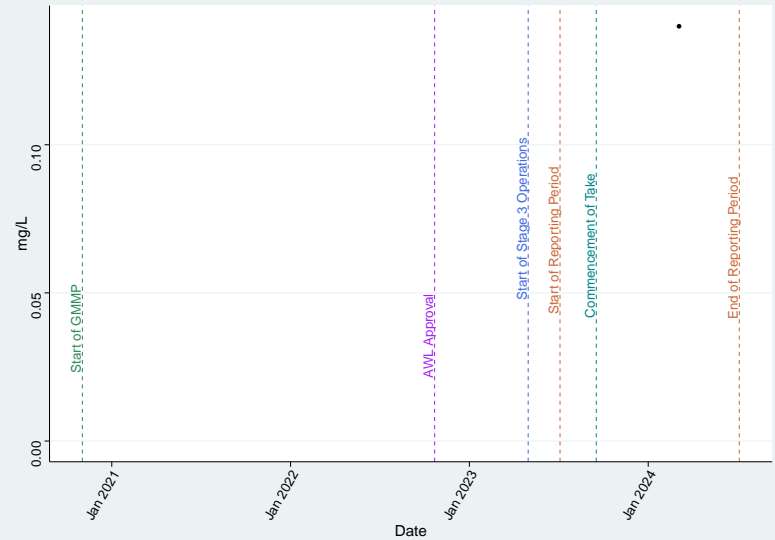
Bore M1 (Marburg Sandstone) – F

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



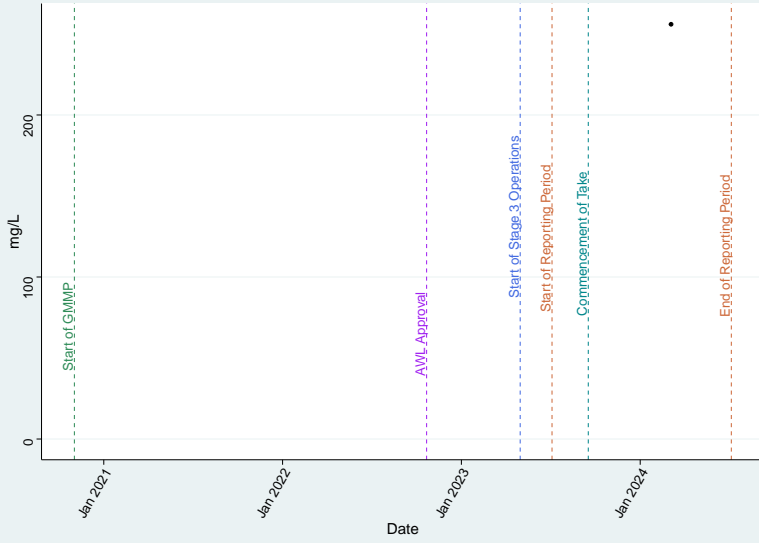
Bore M1 (Marburg Sandstone) – Fe_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



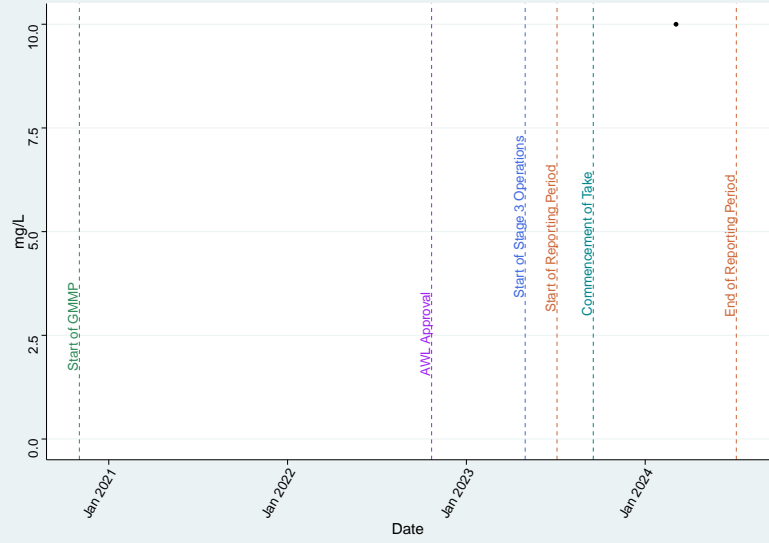
Bore M1 (Marburg Sandstone) – HCO3

Mann Kendall Trend Test | τ = Not enough data | p -value = Not enough data | Not evaluated



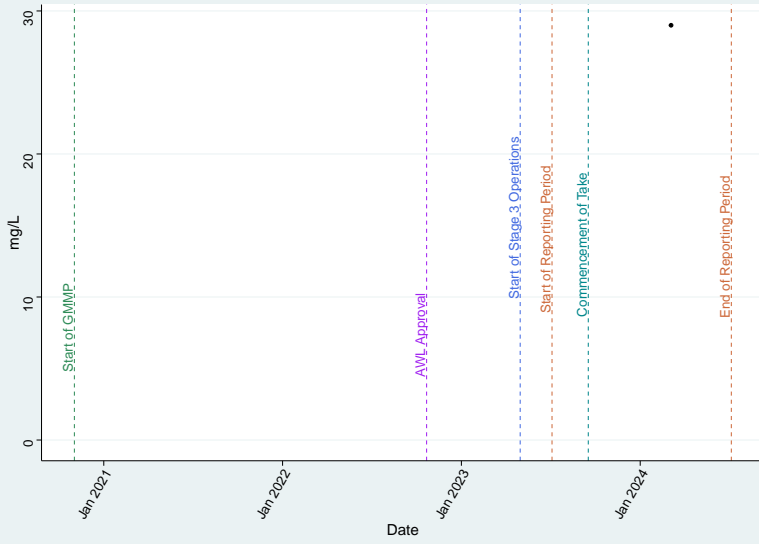
Bore M1 (Marburg Sandstone) – K

Mann Kendall Trend Test | τ = Not enough data | p -value = Not enough data | Not evaluated



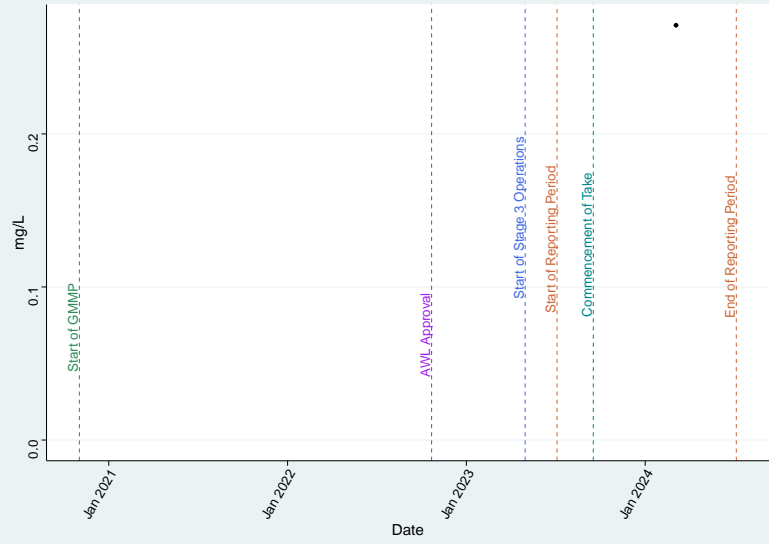
Bore M1 (Marburg Sandstone) – Mg

Mann Kendall Trend Test | τ = Not enough data | p -value = Not enough data | Not evaluated



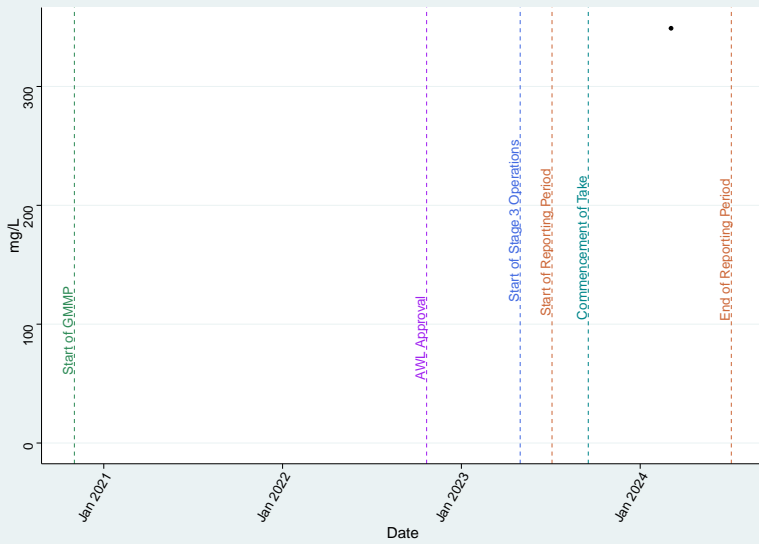
Bore M1 (Marburg Sandstone) – Mn_diss

Mann Kendall Trend Test | τ = Not enough data | p -value = Not enough data | Not evaluated



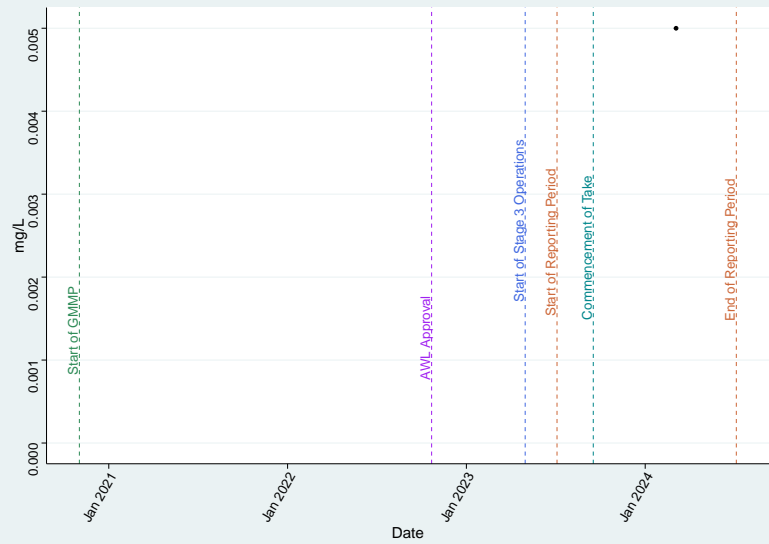
Bore M1 (Marburg Sandstone) – Na

Mann Kendall Trend Test | τ = Not enough data | p -value = Not enough data | Not evaluated



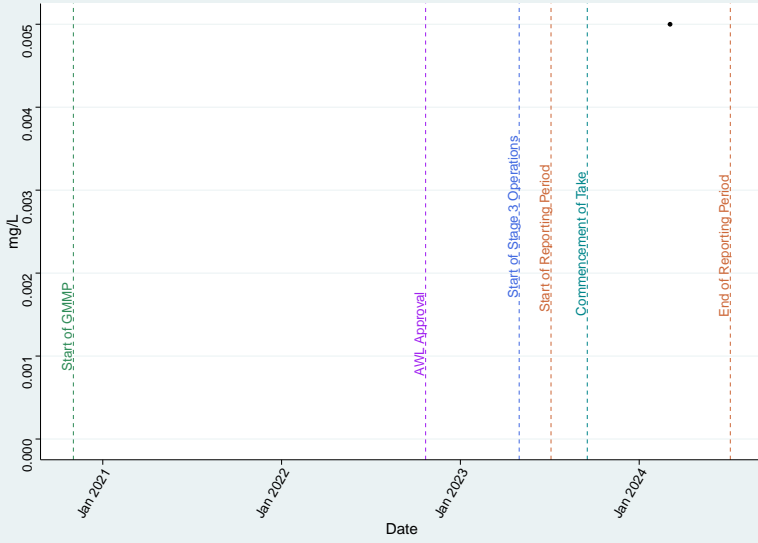
Bore M1 (Marburg Sandstone) – Nitrate as N

Mann Kendall Trend Test | τ = Not enough data | p -value = Not enough data | Not evaluated



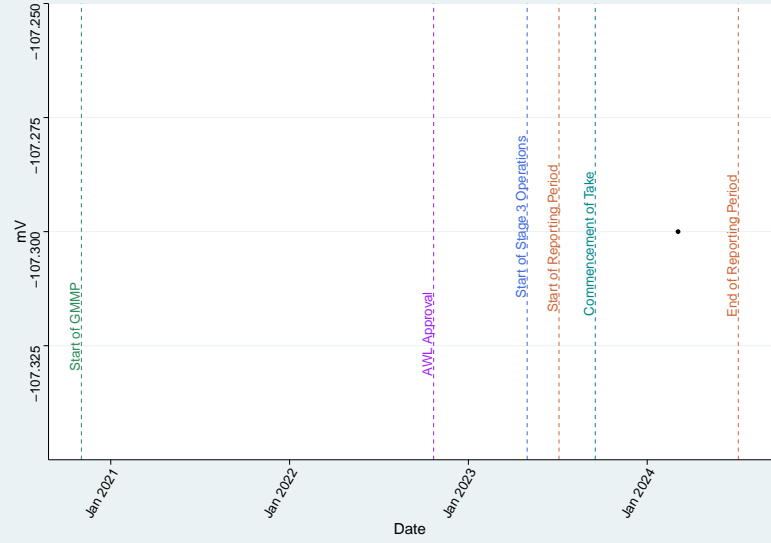
Bore M1 (Marburg Sandstone) – Nitrite as N

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



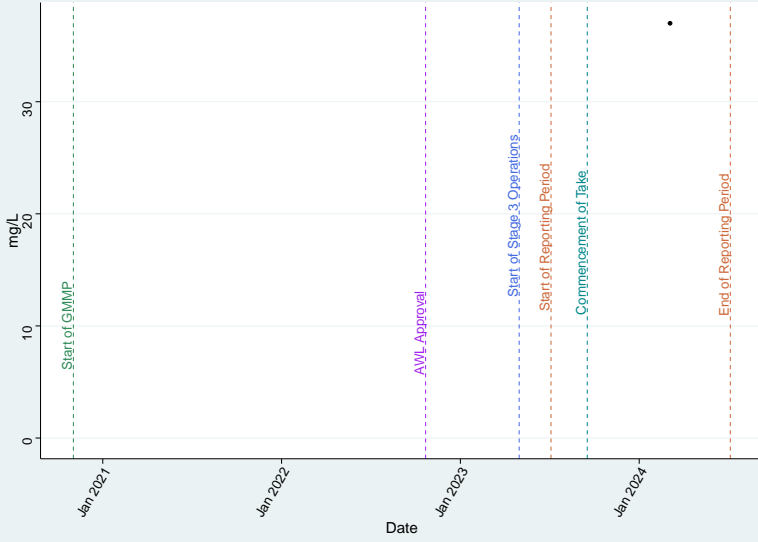
Bore M1 (Marburg Sandstone) – Redox_Field

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



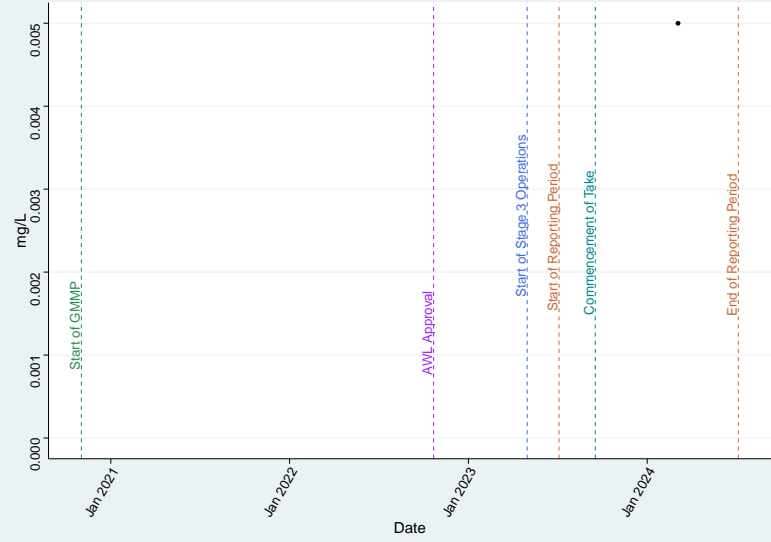
Bore M1 (Marburg Sandstone) – SO4

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



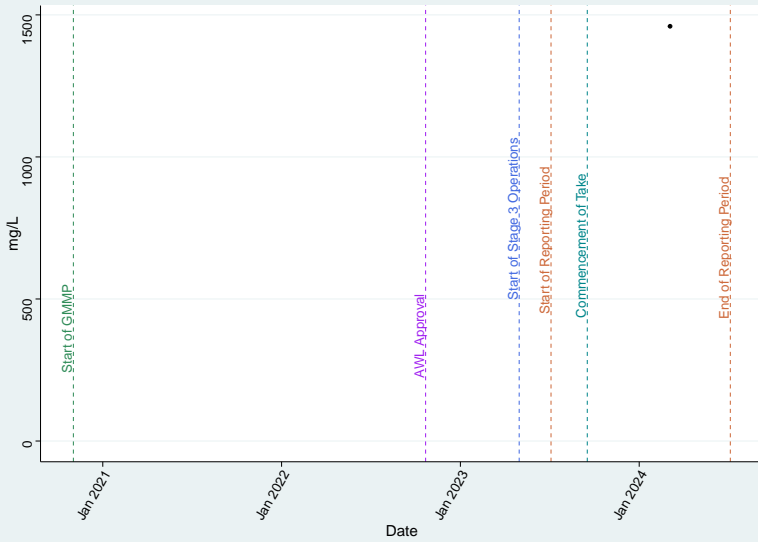
Bore M1 (Marburg Sandstone) – Se_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



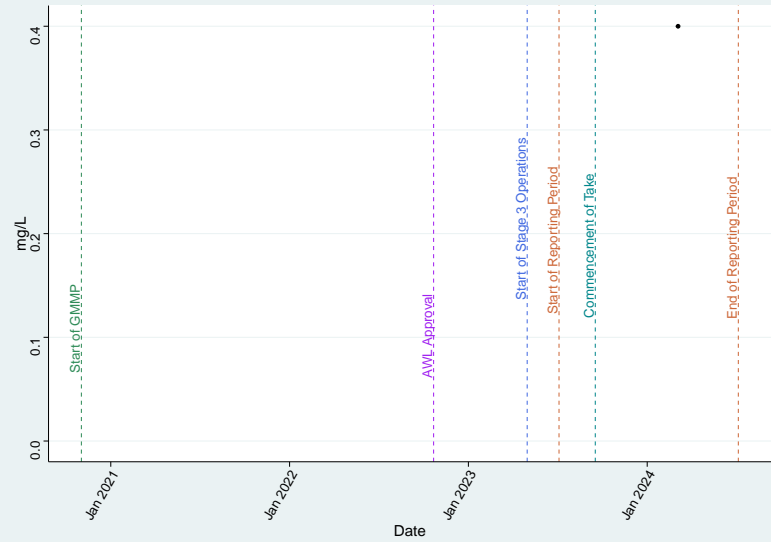
Bore M1 (Marburg Sandstone) – TDS

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



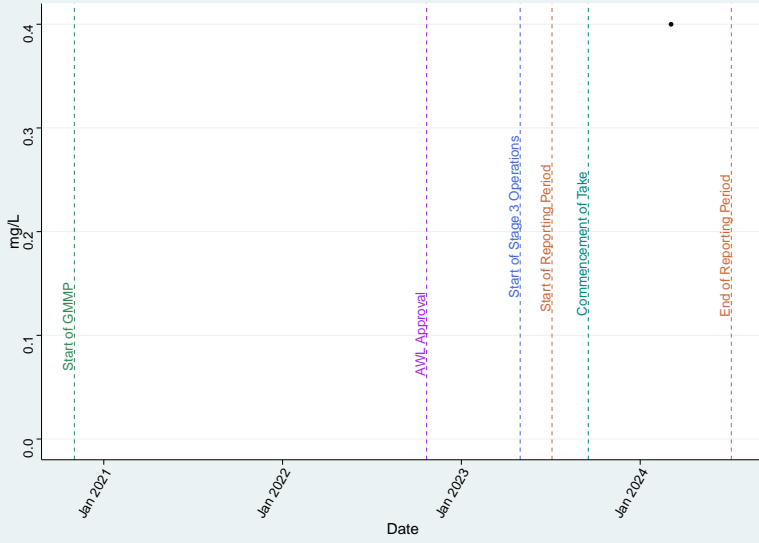
Bore M1 (Marburg Sandstone) – TKN

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



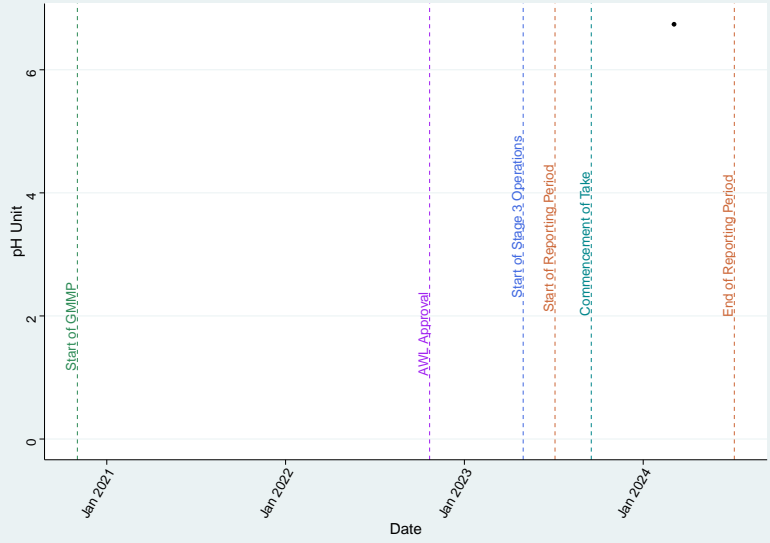
Bore M1 (Marburg Sandstone) – Total_N

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



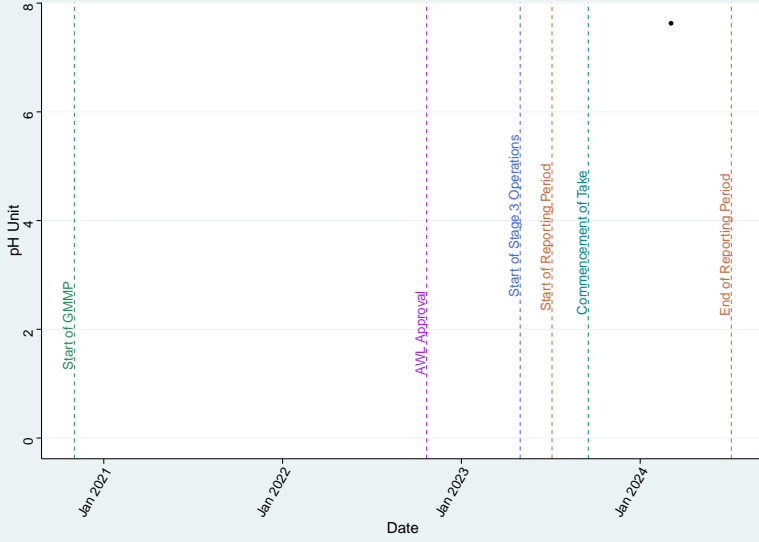
Bore M1 (Marburg Sandstone) – pH_Field

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



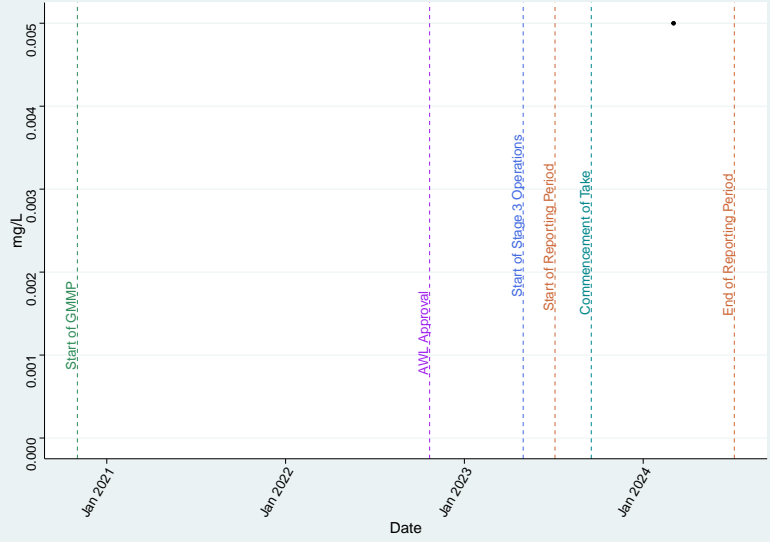
Bore M1 (Marburg Sandstone) – pH_Lab

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



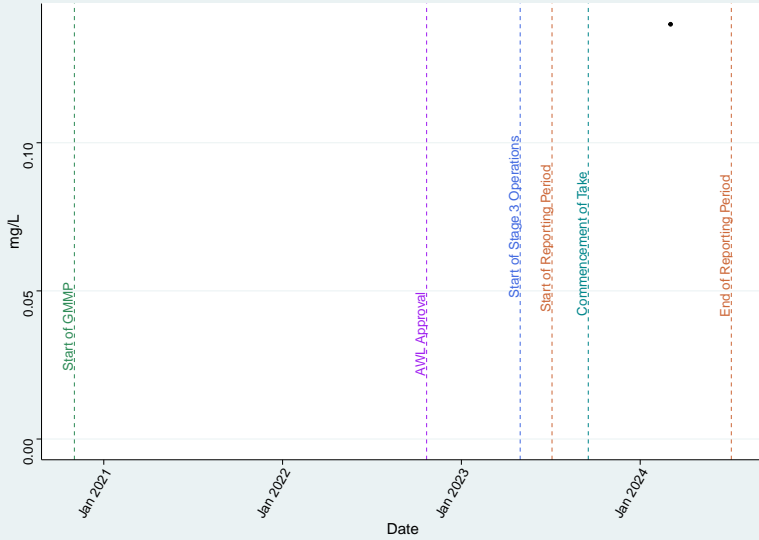
Bore M2 (Marburg Sandstone) – Al_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



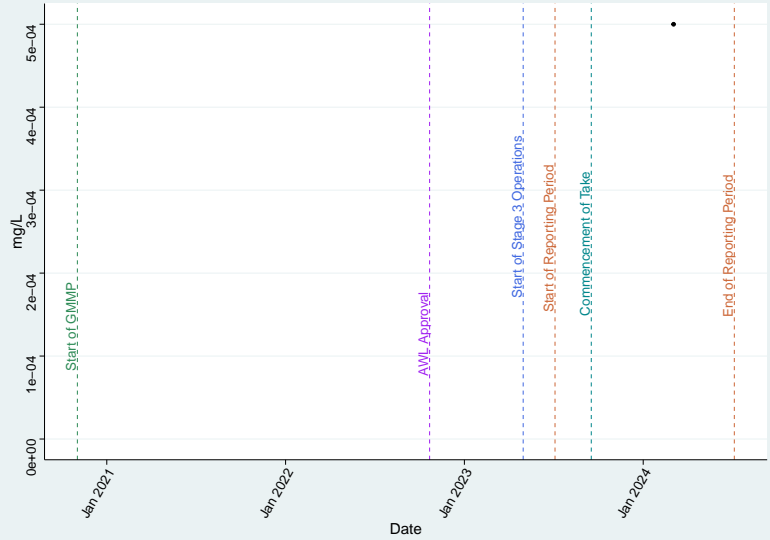
Bore M2 (Marburg Sandstone) – Ammonia as N

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



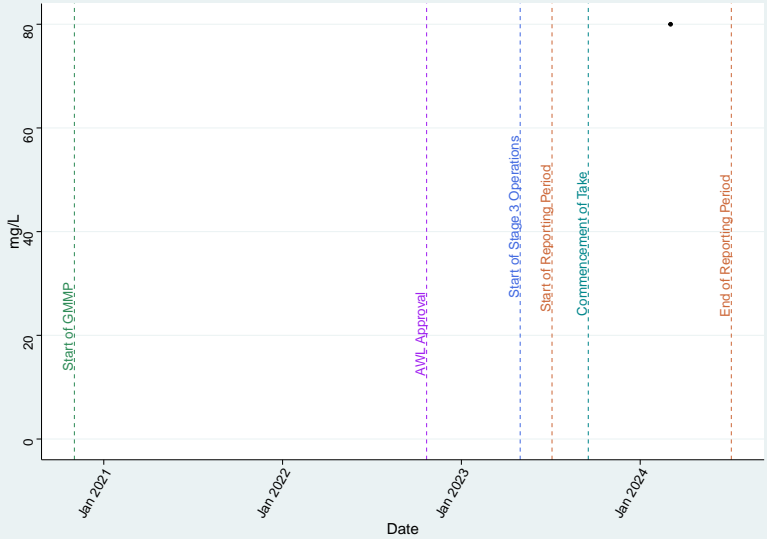
Bore M2 (Marburg Sandstone) – As_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



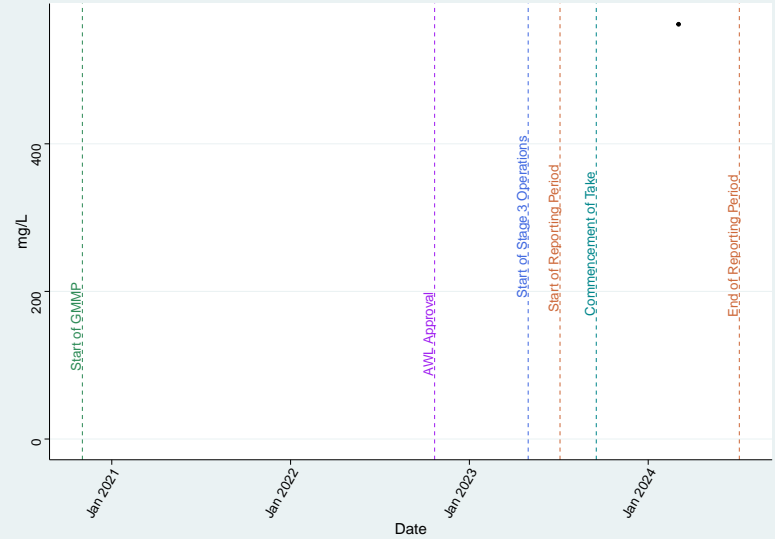
Bore M2 (Marburg Sandstone) – Ca

Mann Kendall Trend Test | τ = Not enough data | p -value = Not enough data | Not evaluated



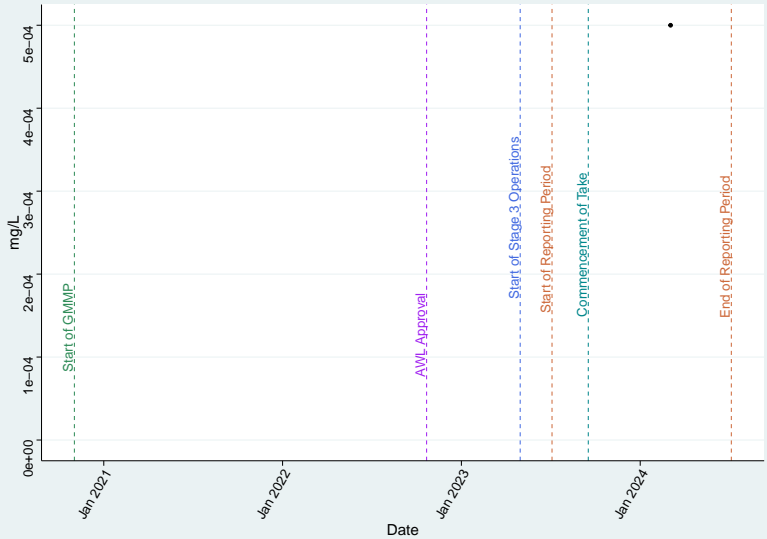
Bore M2 (Marburg Sandstone) – Cl

Mann Kendall Trend Test | τ = Not enough data | p -value = Not enough data | Not evaluated



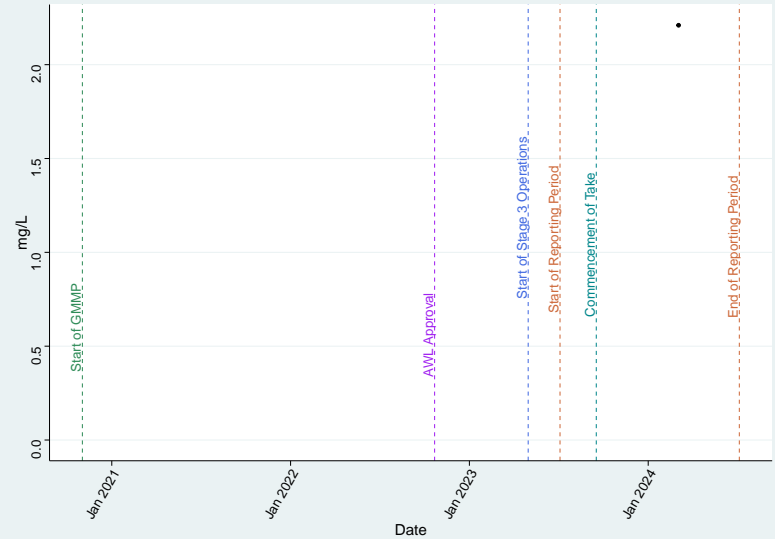
Bore M2 (Marburg Sandstone) – Cu_diss

Mann Kendall Trend Test | τ = Not enough data | p -value = Not enough data | Not evaluated



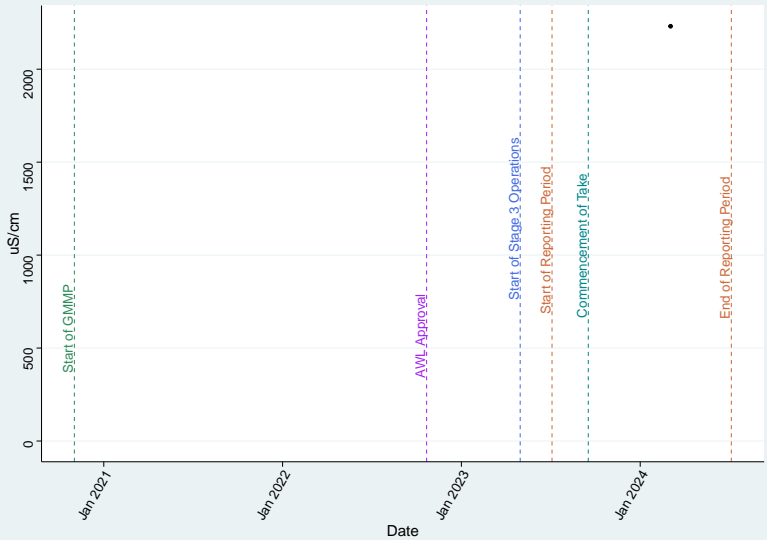
Bore M2 (Marburg Sandstone) – DO_Field

Mann Kendall Trend Test | τ = Not enough data | p -value = Not enough data | Not evaluated



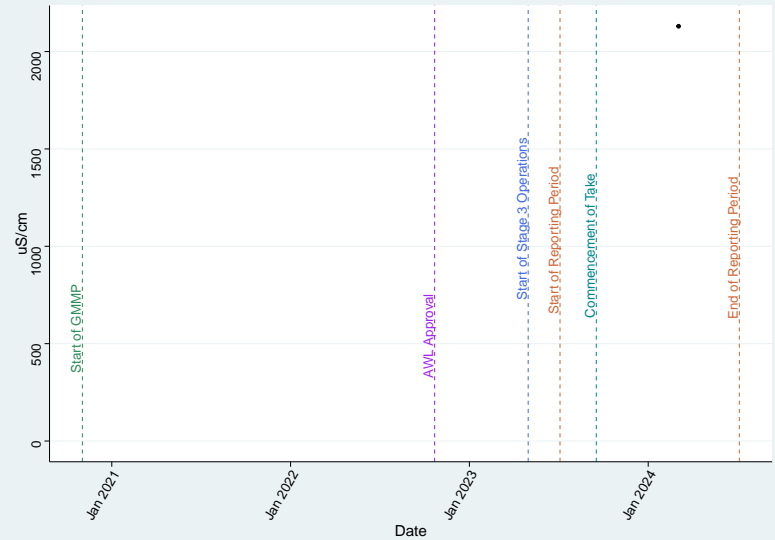
Bore M2 (Marburg Sandstone) – EC_Field

Mann Kendall Trend Test | τ = Not enough data | p -value = Not enough data | Not evaluated



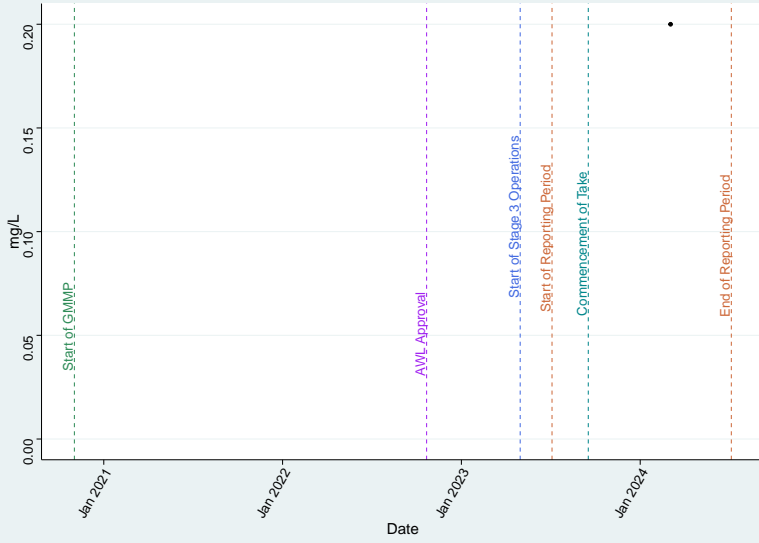
Bore M2 (Marburg Sandstone) – EC_Lab

Mann Kendall Trend Test | τ = Not enough data | p -value = Not enough data | Not evaluated



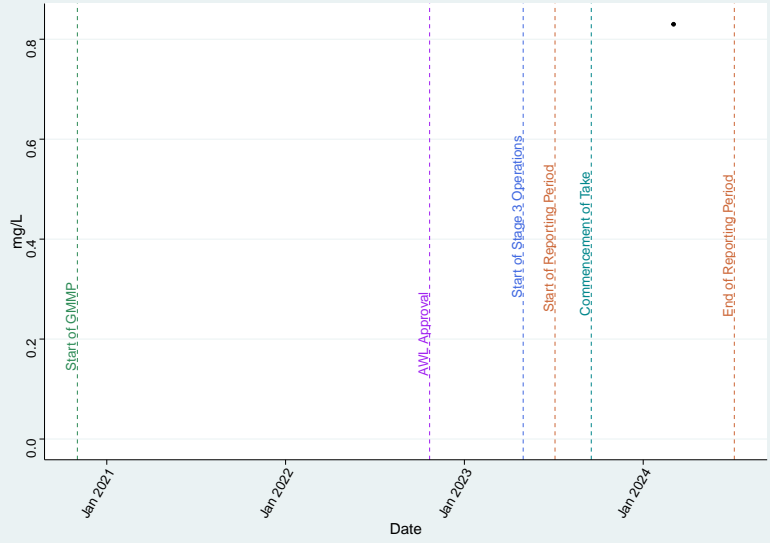
Bore M2 (Marburg Sandstone) – F

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



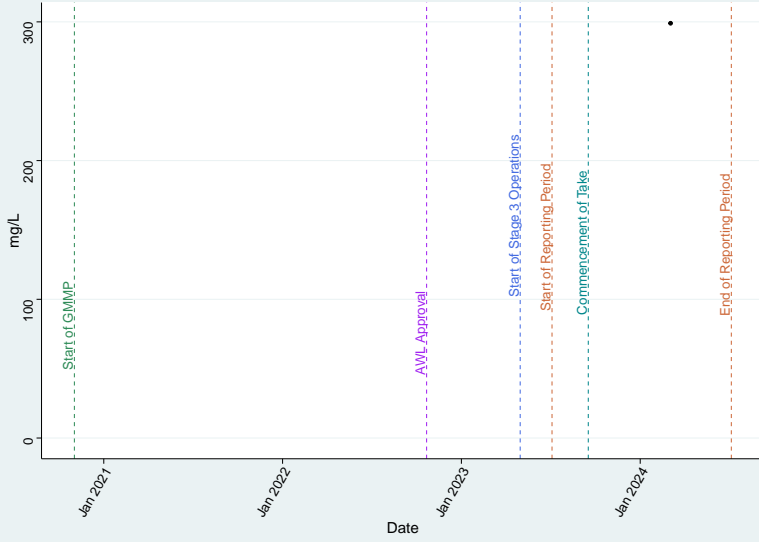
Bore M2 (Marburg Sandstone) – Fe_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



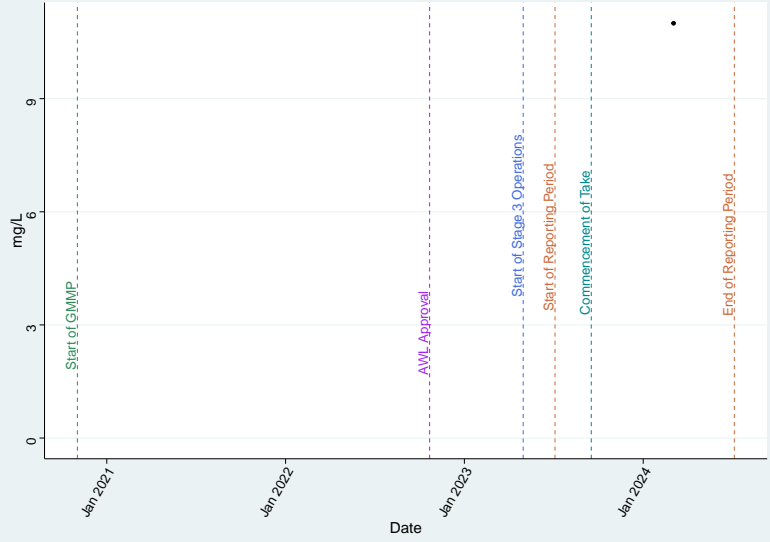
Bore M2 (Marburg Sandstone) – HCO3

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



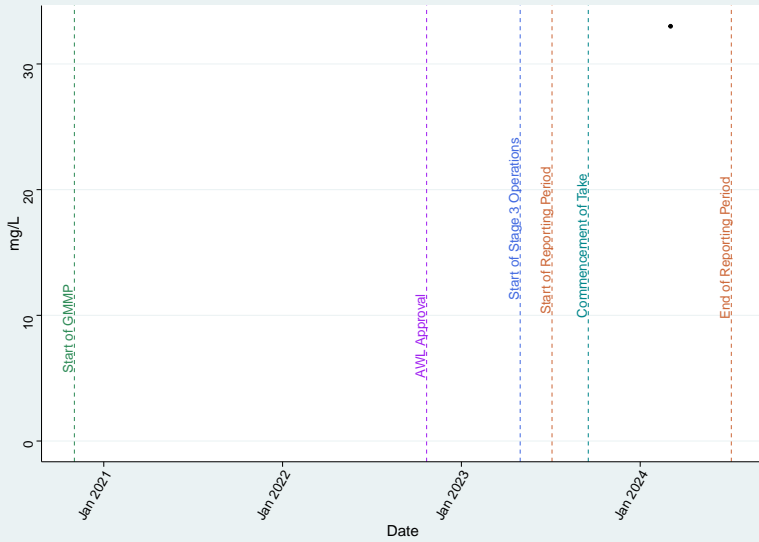
Bore M2 (Marburg Sandstone) – K

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



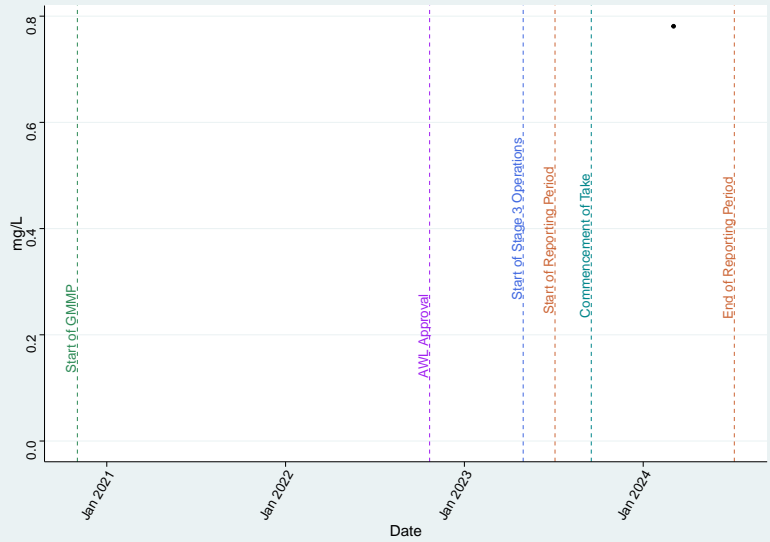
Bore M2 (Marburg Sandstone) – Mg

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



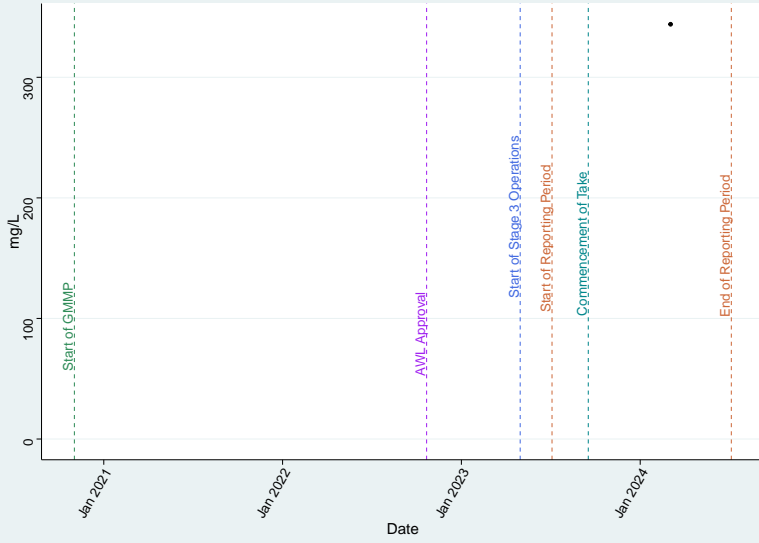
Bore M2 (Marburg Sandstone) – Mn_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



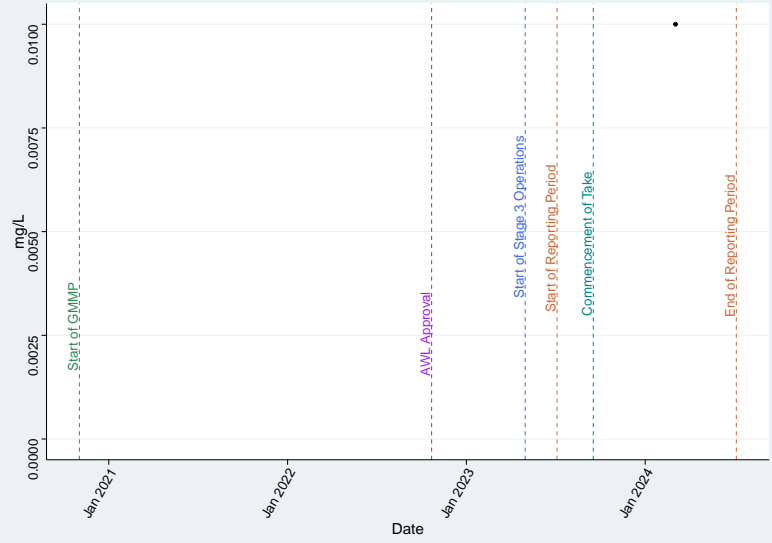
Bore M2 (Marburg Sandstone) – Na

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



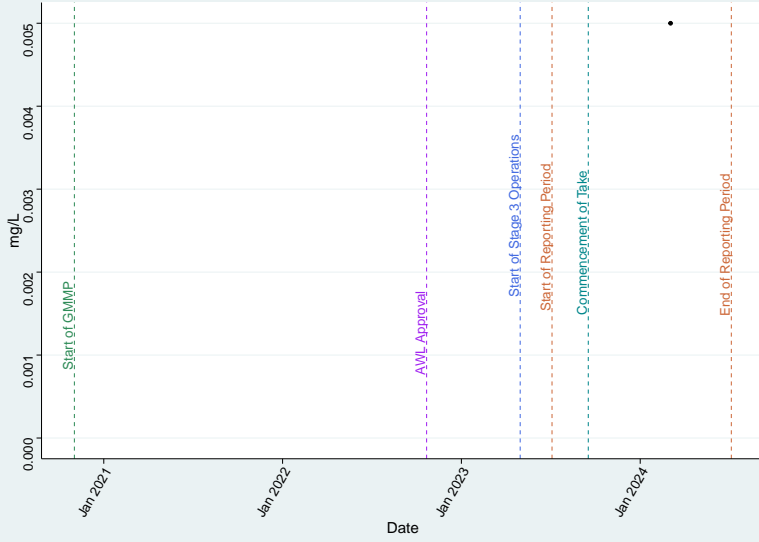
Bore M2 (Marburg Sandstone) – Nitrate as N

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



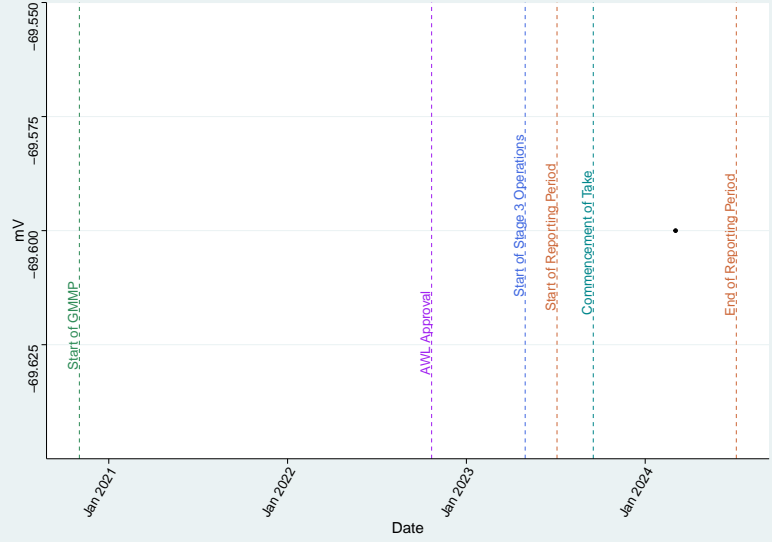
Bore M2 (Marburg Sandstone) – Nitrite as N

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



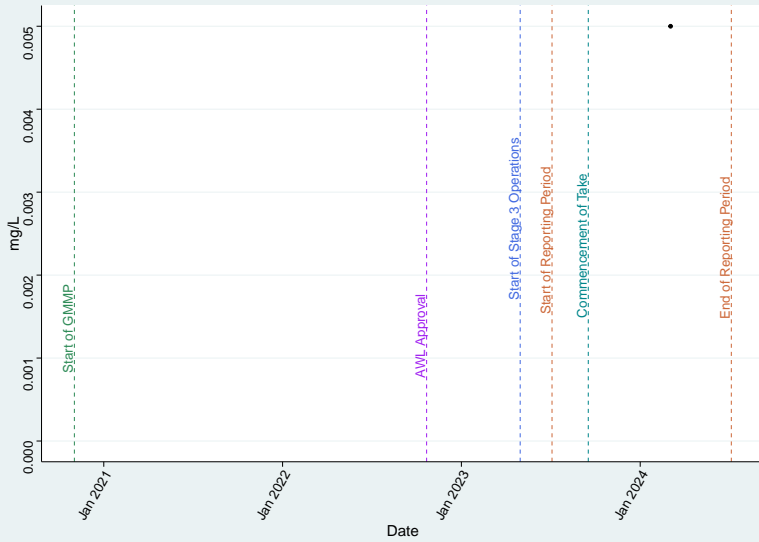
Bore M2 (Marburg Sandstone) – Redox_Field

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



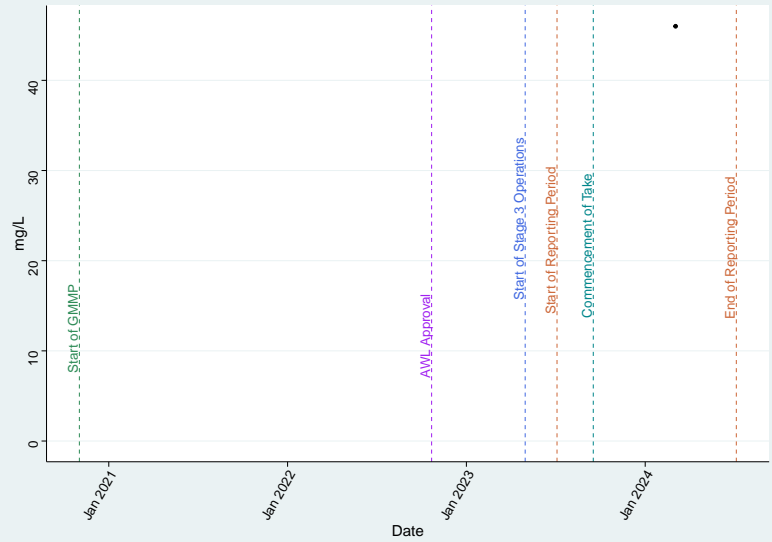
Bore M2 (Marburg Sandstone) – Se_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



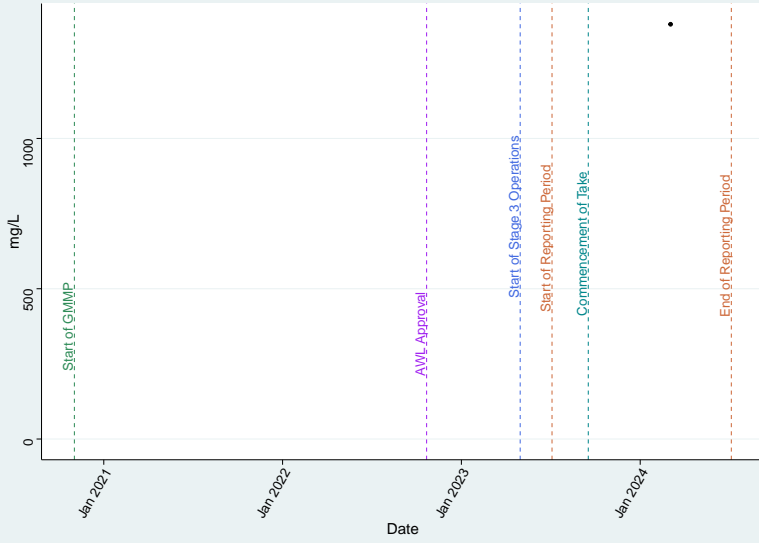
Bore M2 (Marburg Sandstone) – SO4

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



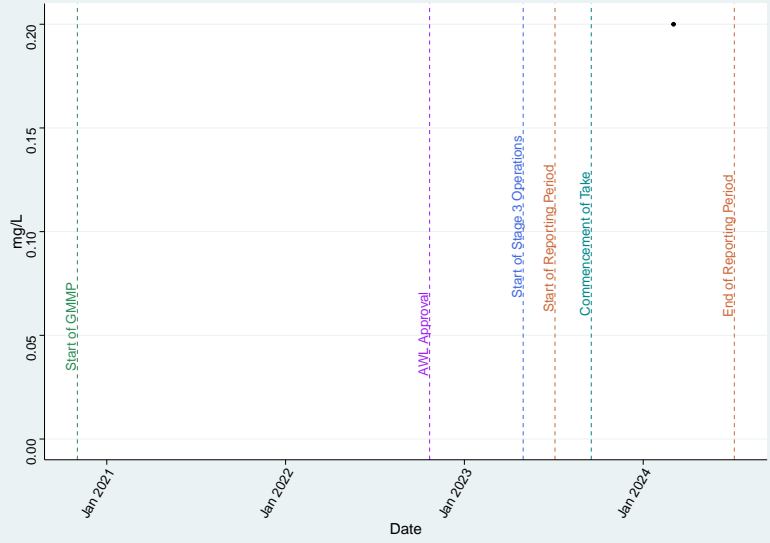
Bore M2 (Marburg Sandstone) – TDS

Mann Kendall Trend Test | τ = Not enough data | p -value = Not enough data | Not evaluated



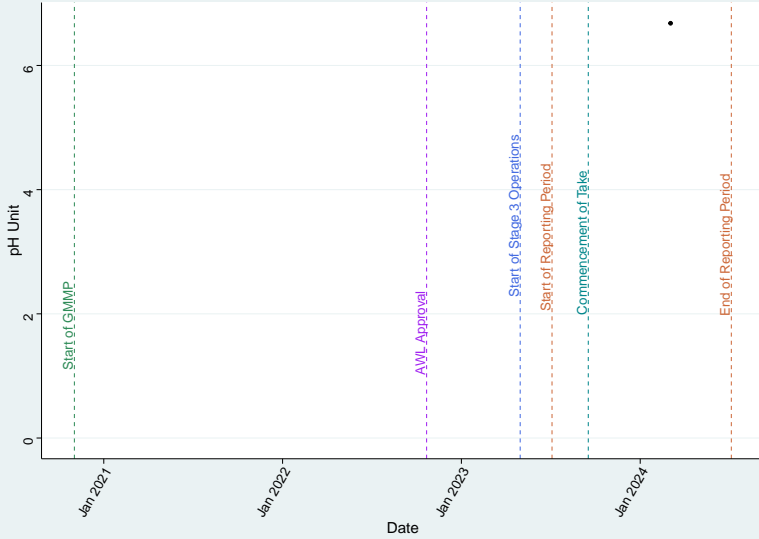
Bore M2 (Marburg Sandstone) – TKN

Mann Kendall Trend Test | τ = Not enough data | p -value = Not enough data | Not evaluated



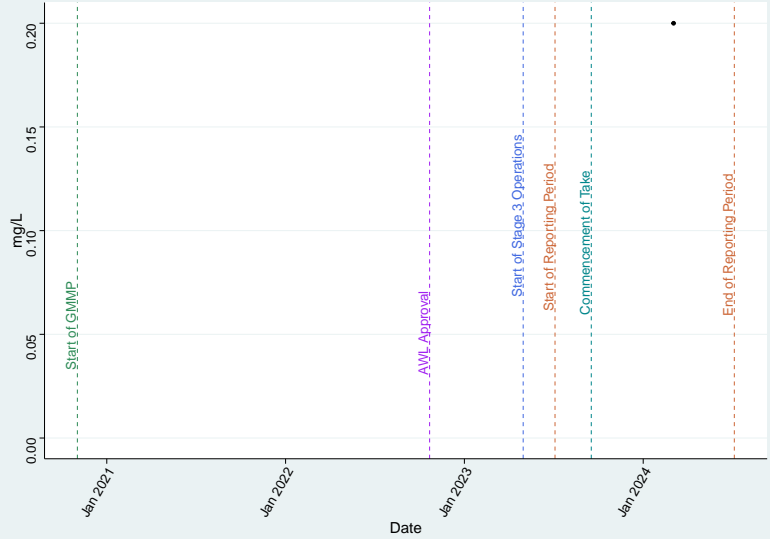
Bore M2 (Marburg Sandstone) – pH_Field

Mann Kendall Trend Test | τ = Not enough data | p -value = Not enough data | Not evaluated



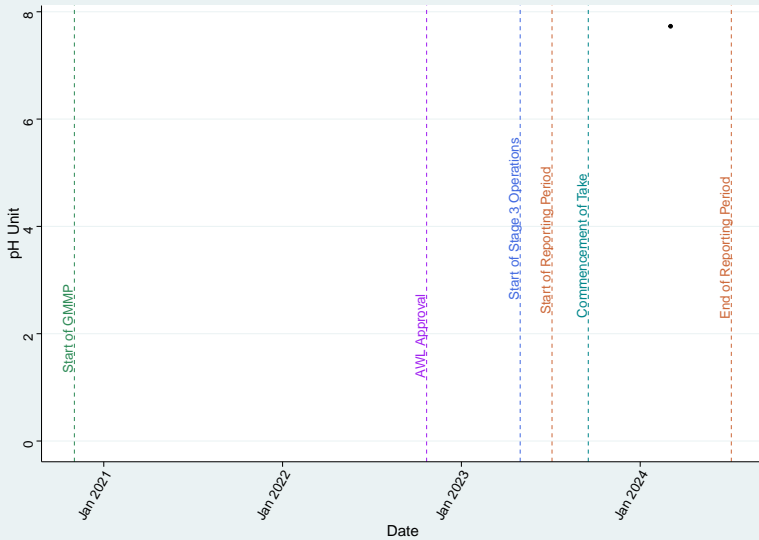
Bore M2 (Marburg Sandstone) – Total_N

Mann Kendall Trend Test | τ = Not enough data | p -value = Not enough data | Not evaluated



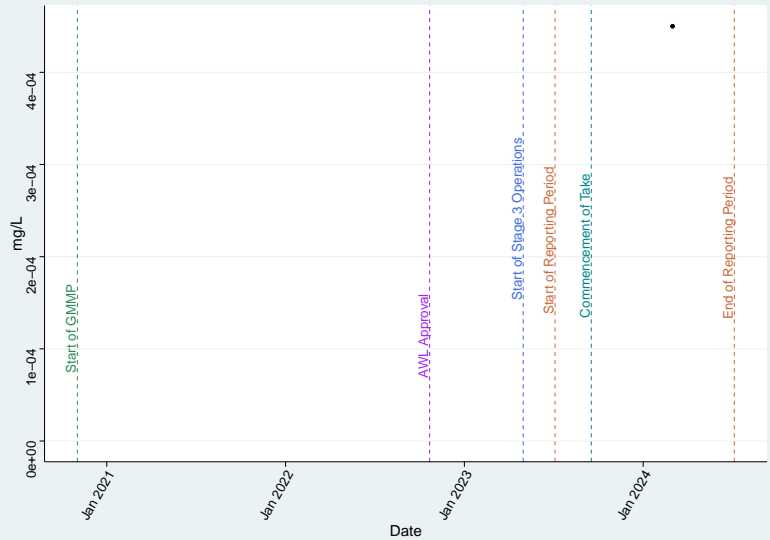
Bore M2 (Marburg Sandstone) – pH_Lab

Mann Kendall Trend Test | τ = Not enough data | p -value = Not enough data | Not evaluated



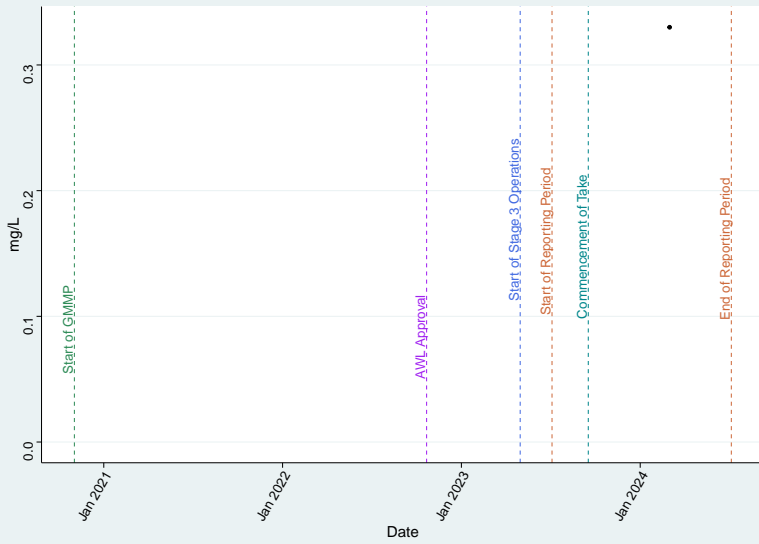
Bore M3 (Marburg Sandstone) – Al_diss

Mann Kendall Trend Test | τ = Not enough data | p -value = Not enough data | Not evaluated



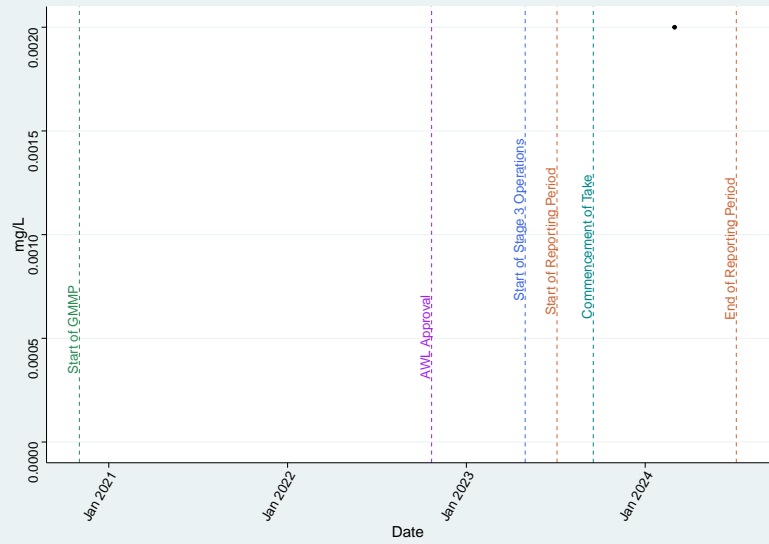
Bore M3 (Marburg Sandstone) – Ammonia as N

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



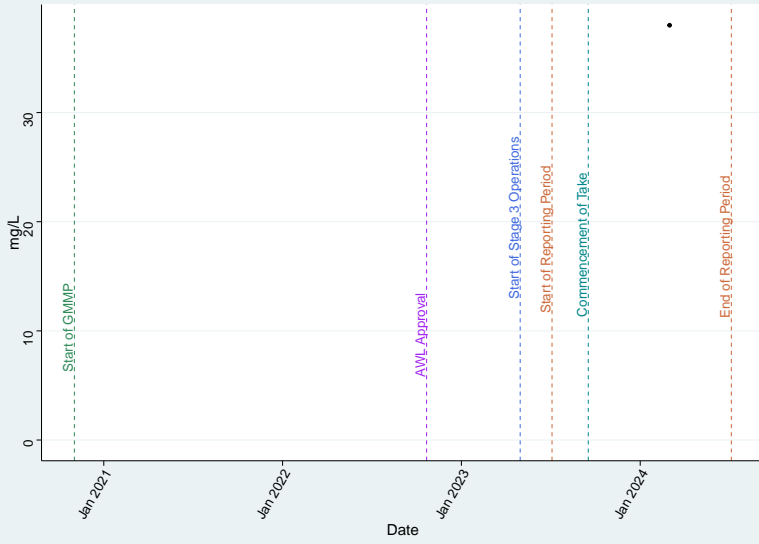
Bore M3 (Marburg Sandstone) – As_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



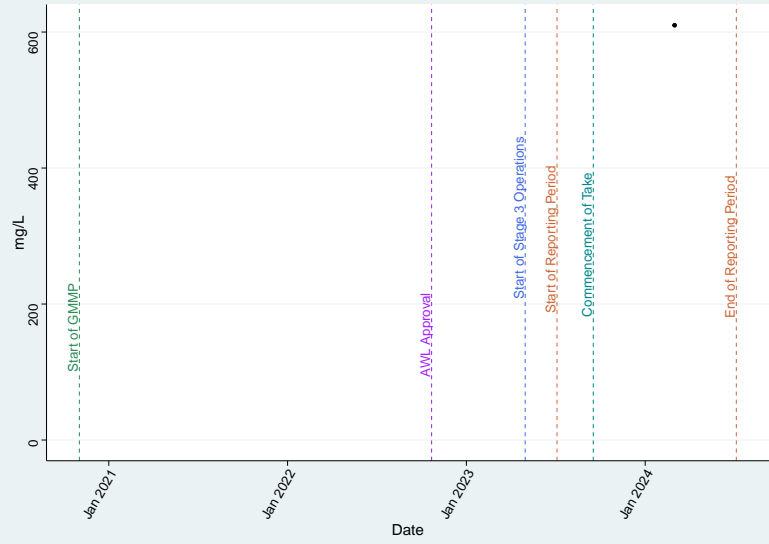
Bore M3 (Marburg Sandstone) – Ca

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



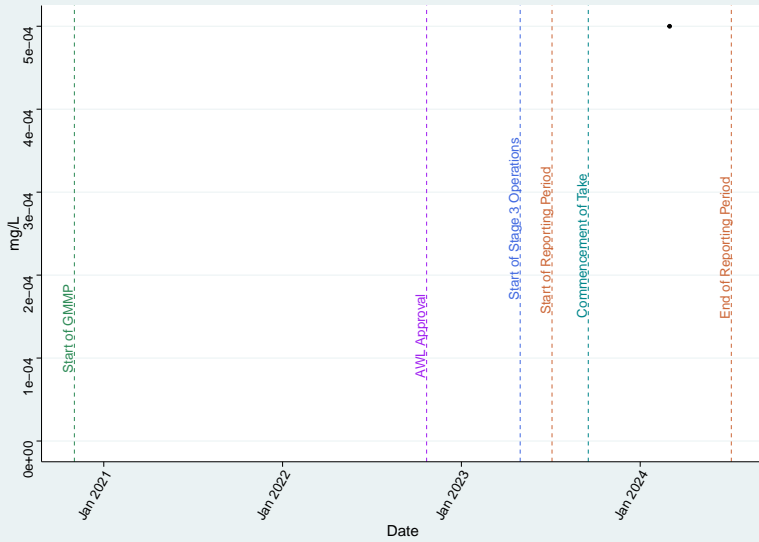
Bore M3 (Marburg Sandstone) – Cl

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



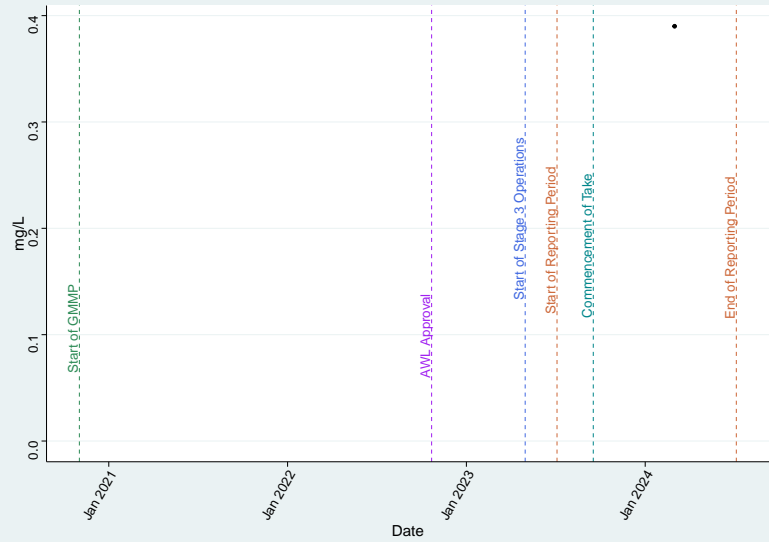
Bore M3 (Marburg Sandstone) – Cu_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



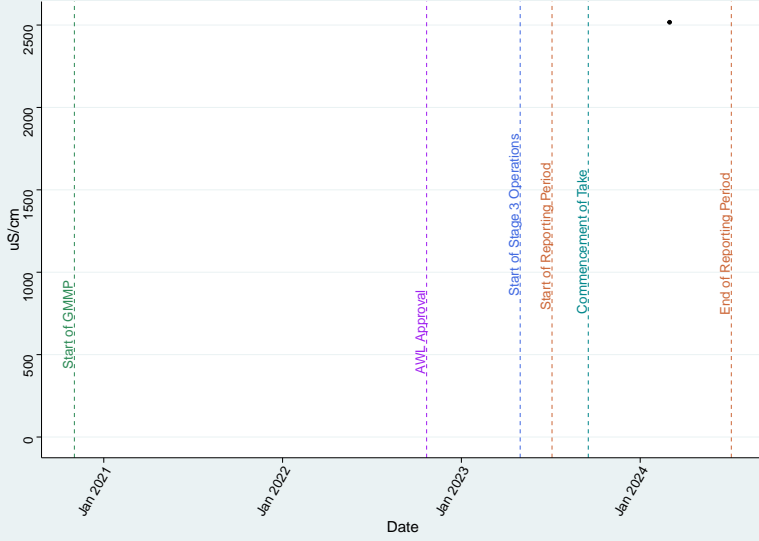
Bore M3 (Marburg Sandstone) – DO_Field

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



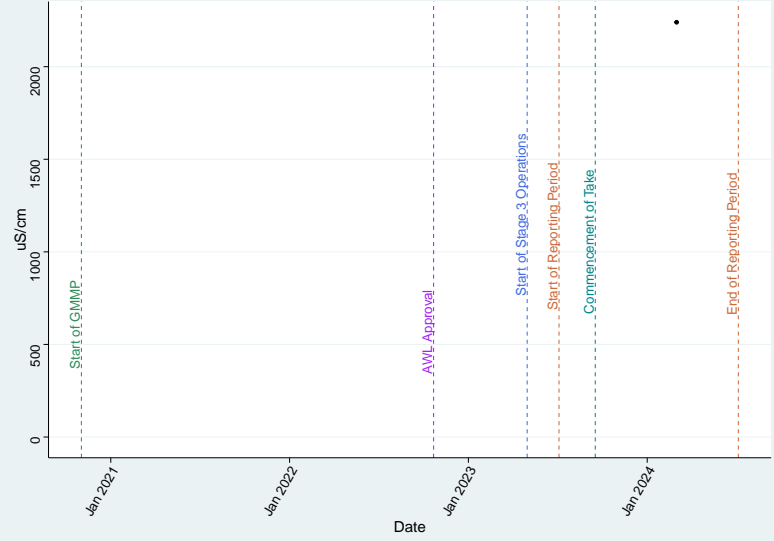
Bore M3 (Marburg Sandstone) – EC_Field

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



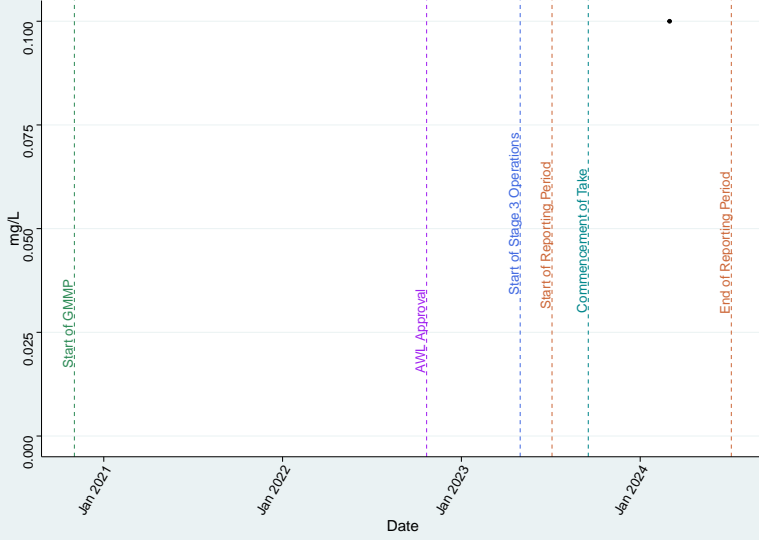
Bore M3 (Marburg Sandstone) – EC_Lab

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



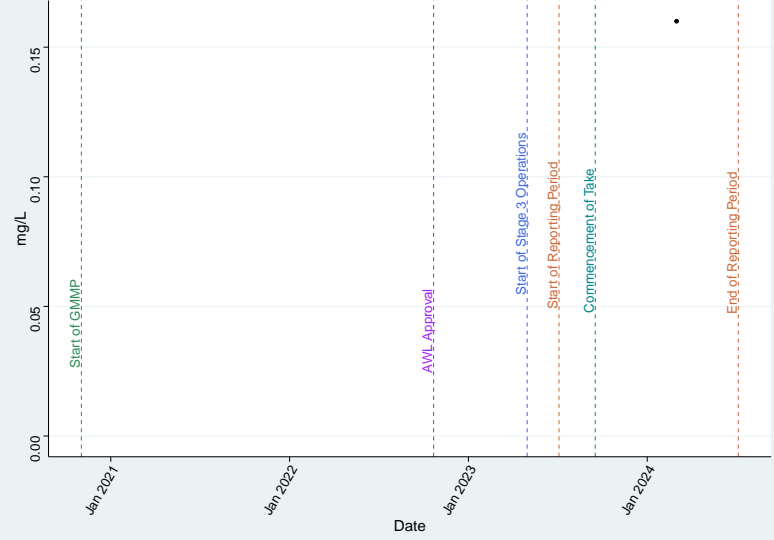
Bore M3 (Marburg Sandstone) – F

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



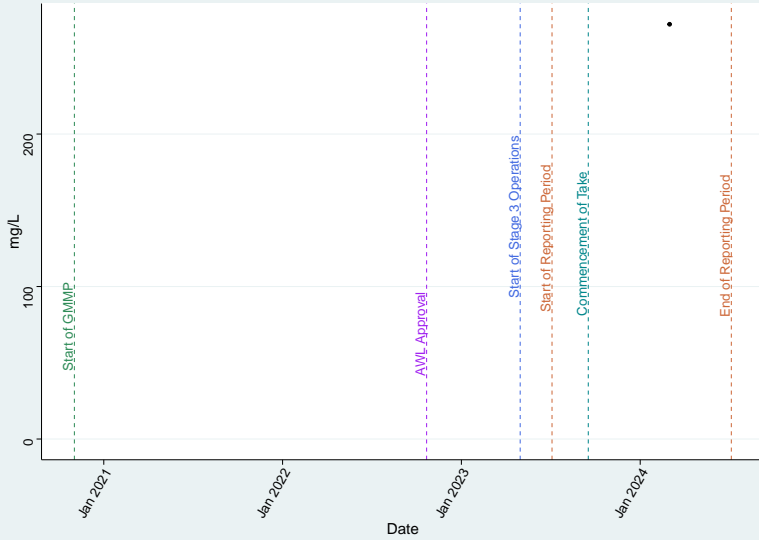
Bore M3 (Marburg Sandstone) – Fe_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



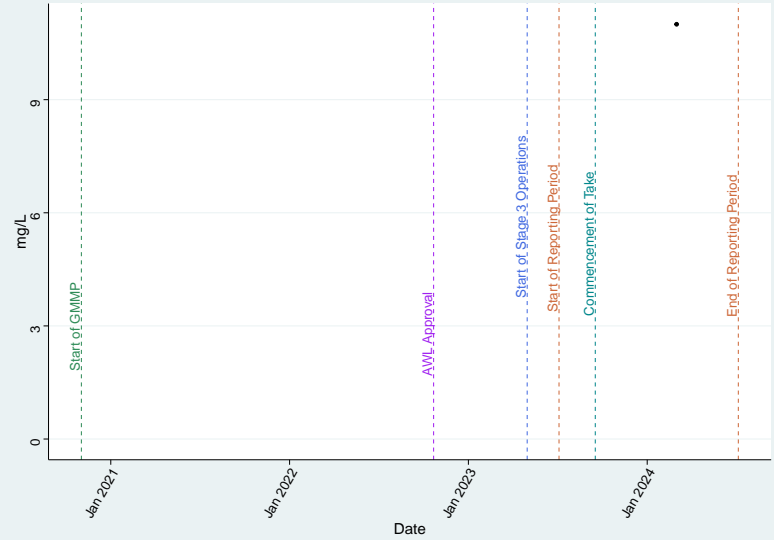
Bore M3 (Marburg Sandstone) – HCO3

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



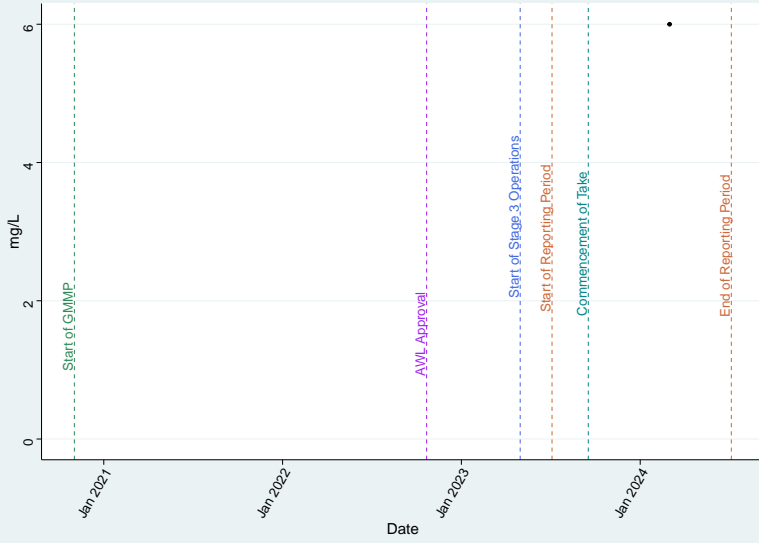
Bore M3 (Marburg Sandstone) – K

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



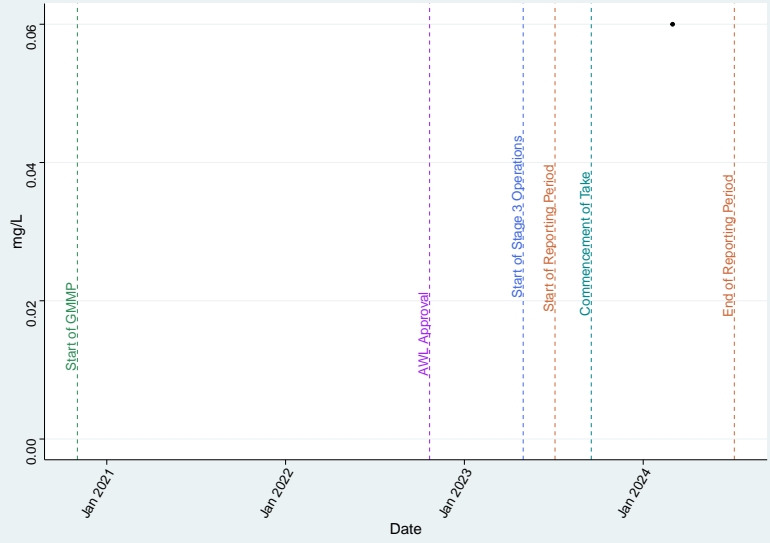
Bore M3 (Marburg Sandstone) – Mg

Mann Kendall Trend Test | τ = Not enough data | p -value = Not enough data | Not evaluated



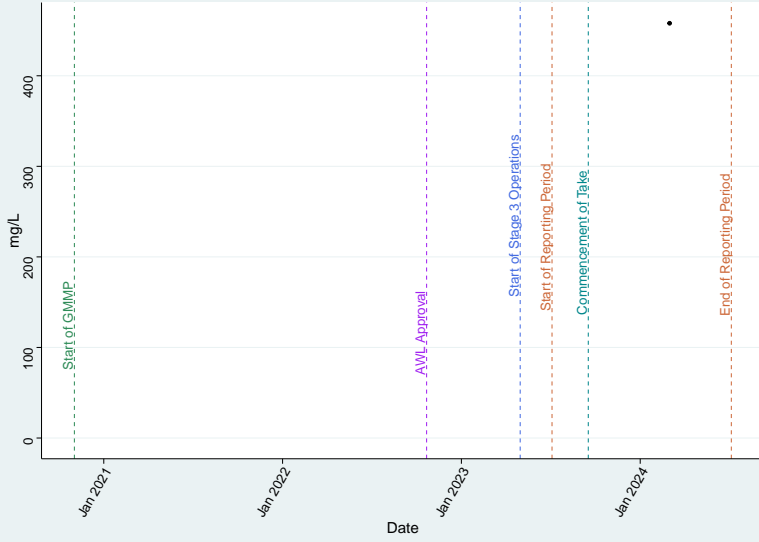
Bore M3 (Marburg Sandstone) – Mn_diss

Mann Kendall Trend Test | τ = Not enough data | p -value = Not enough data | Not evaluated



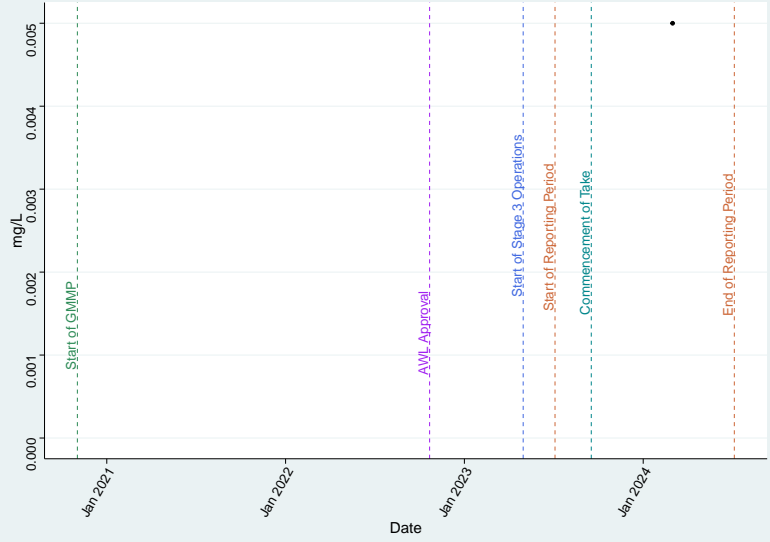
Bore M3 (Marburg Sandstone) – Na

Mann Kendall Trend Test | τ = Not enough data | p -value = Not enough data | Not evaluated



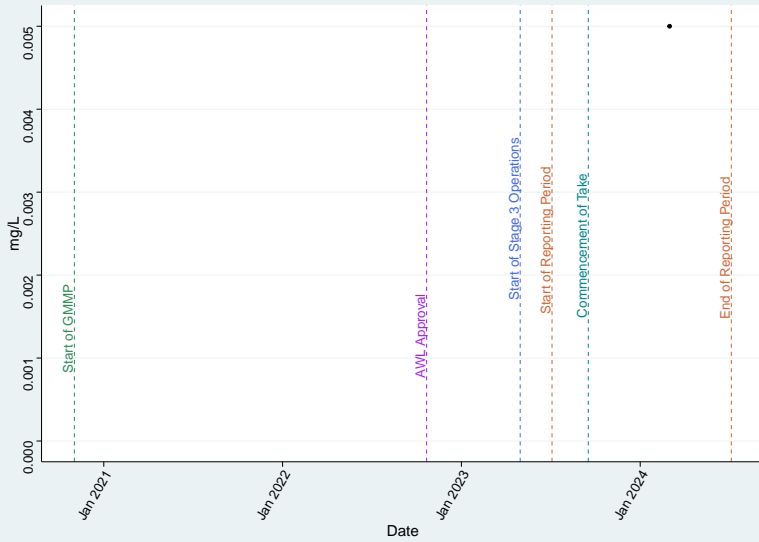
Bore M3 (Marburg Sandstone) – Nitrate as N

Mann Kendall Trend Test | τ = Not enough data | p -value = Not enough data | Not evaluated



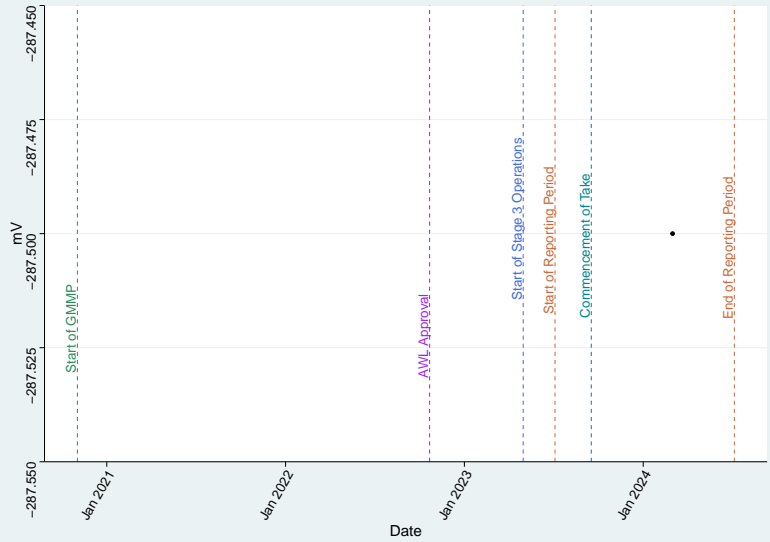
Bore M3 (Marburg Sandstone) – Nitrite as N

Mann Kendall Trend Test | τ = Not enough data | p -value = Not enough data | Not evaluated



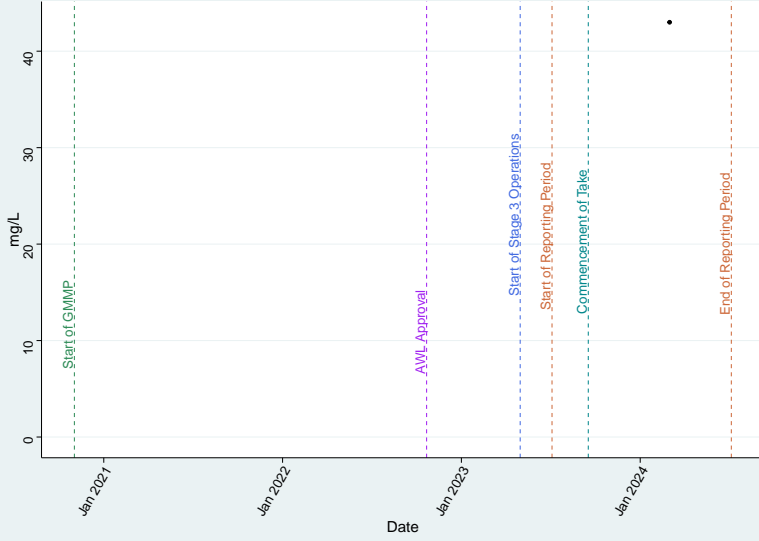
Bore M3 (Marburg Sandstone) – Redox_Field

Mann Kendall Trend Test | τ = Not enough data | p -value = Not enough data | Not evaluated



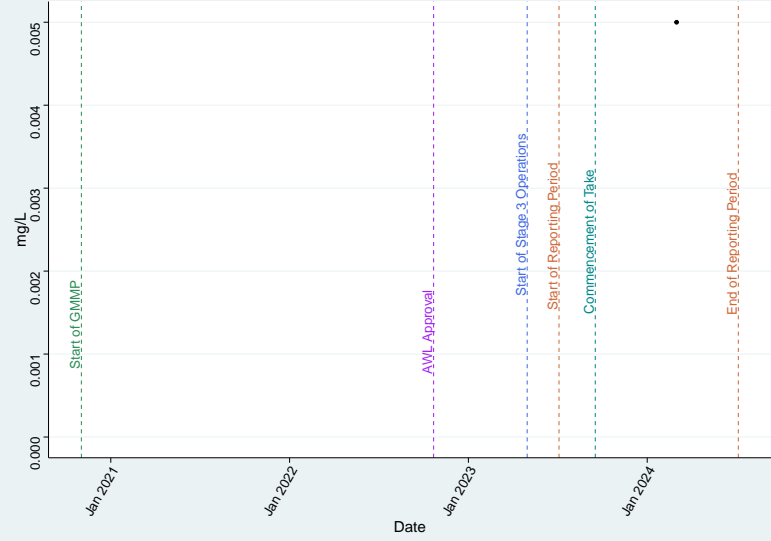
Bore M3 (Marburg Sandstone) – SO4

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



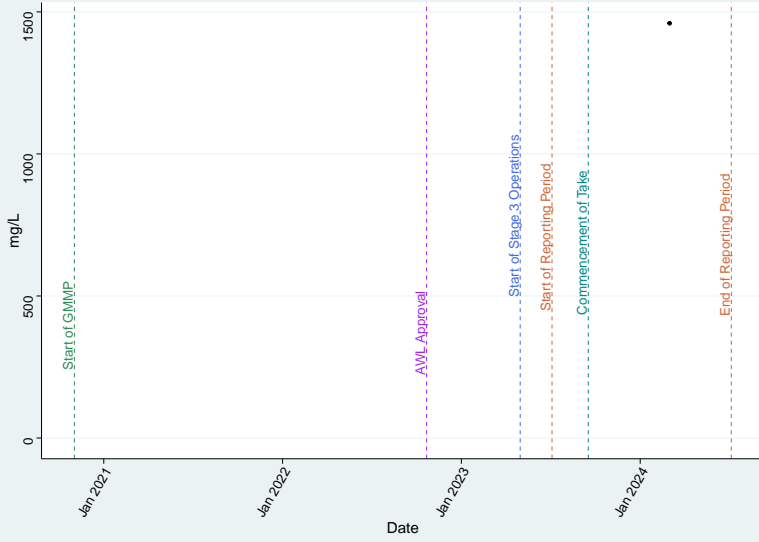
Bore M3 (Marburg Sandstone) – Se_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



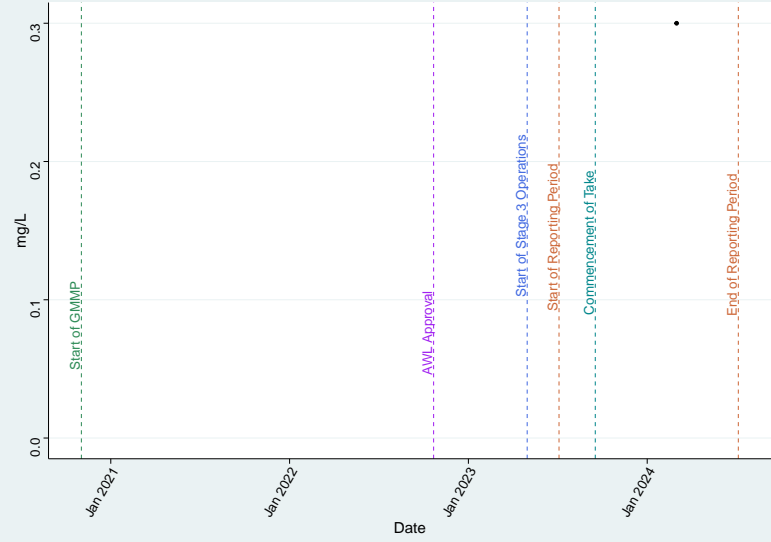
Bore M3 (Marburg Sandstone) – TDS

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



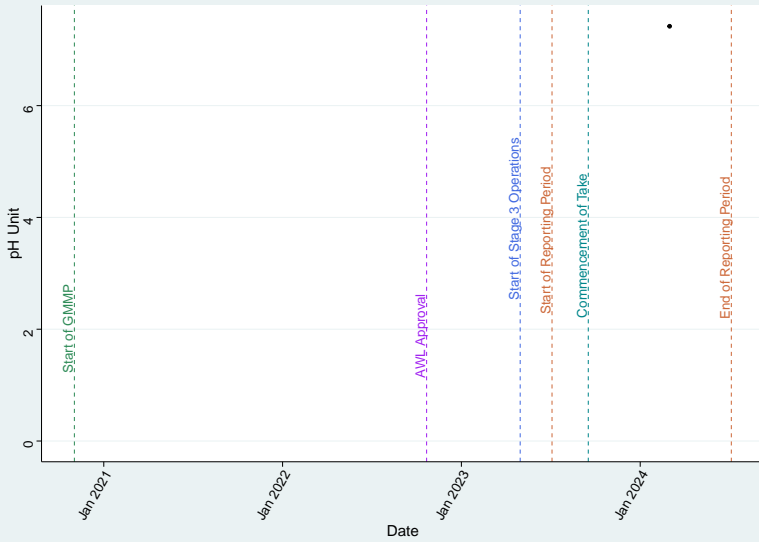
Bore M3 (Marburg Sandstone) – TKN

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



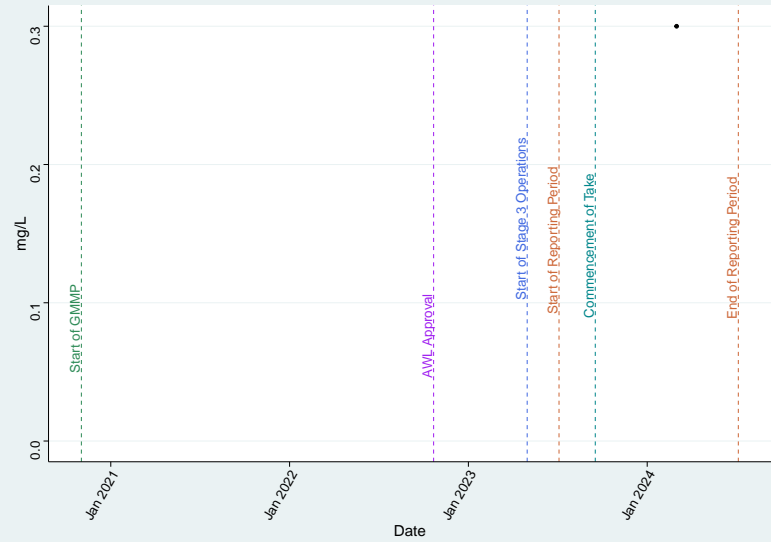
Bore M3 (Marburg Sandstone) – pH_Field

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



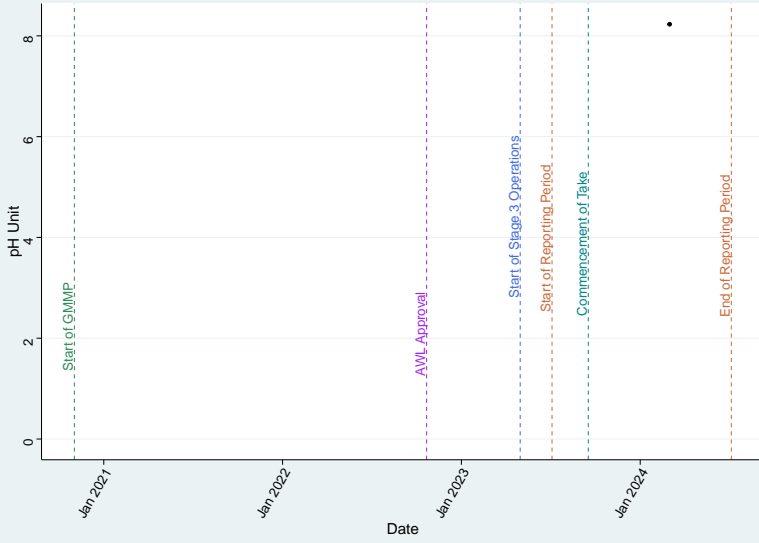
Bore M3 (Marburg Sandstone) – Total_N

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



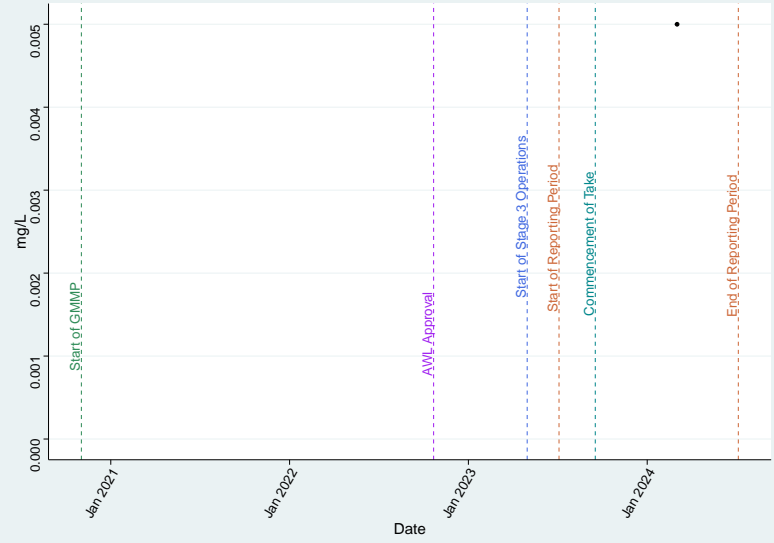
Bore M3 (Marburg Sandstone) – pH_Lab

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



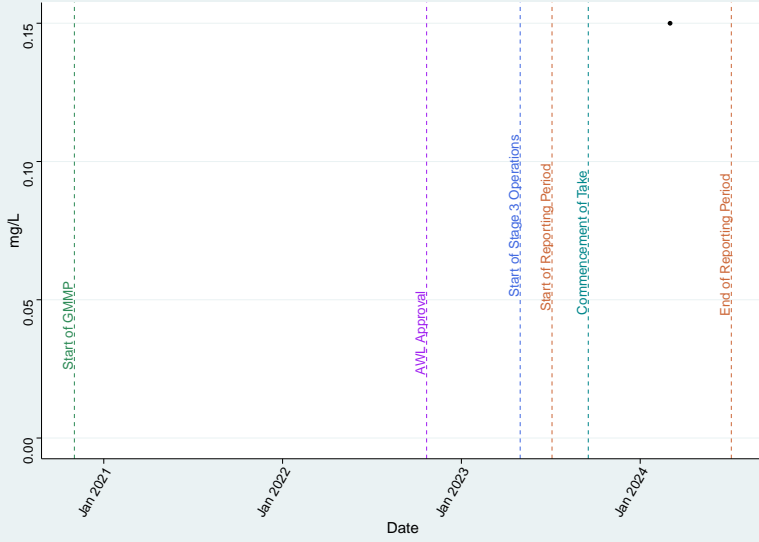
Bore WCS1 (Waipanna Coal Sequence) – Al_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



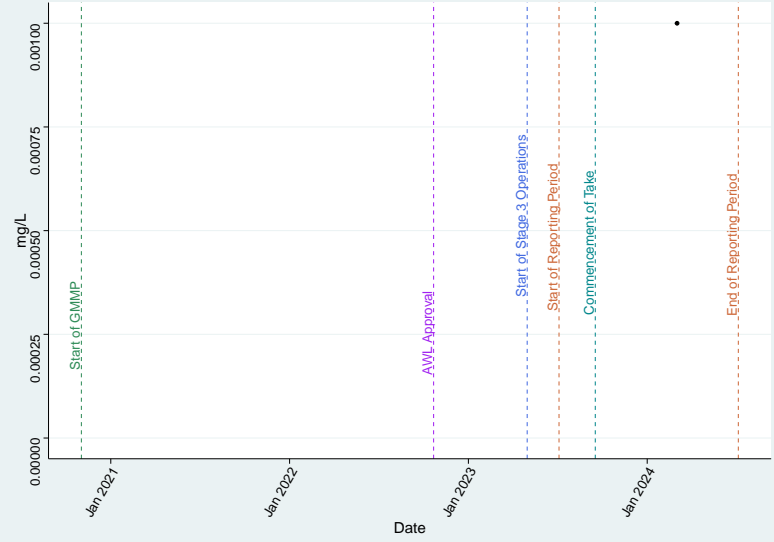
Bore WCS1 (Waipanna Coal Sequence) – Ammonia as N

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



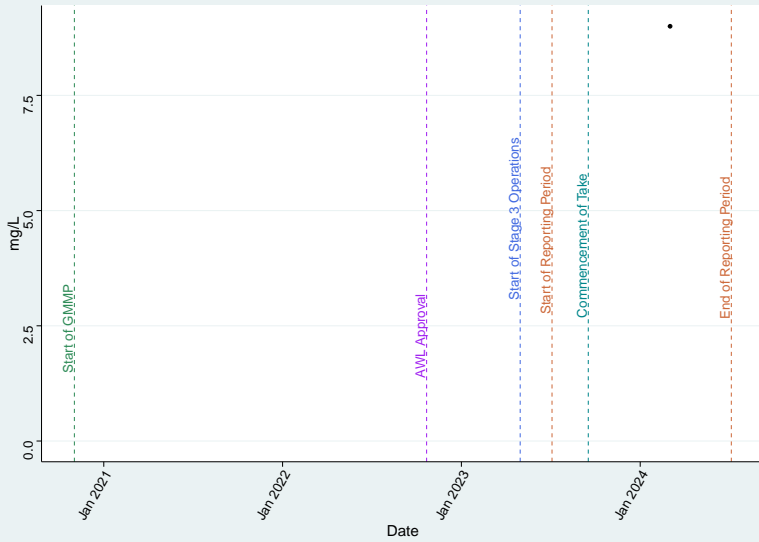
Bore WCS1 (Waipanna Coal Sequence) – As_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



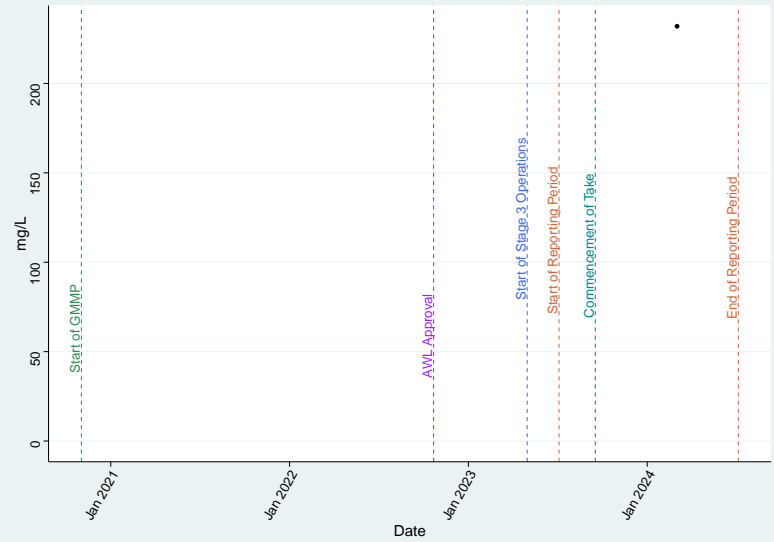
Bore WCS1 (Waipanna Coal Sequence) – Ca

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



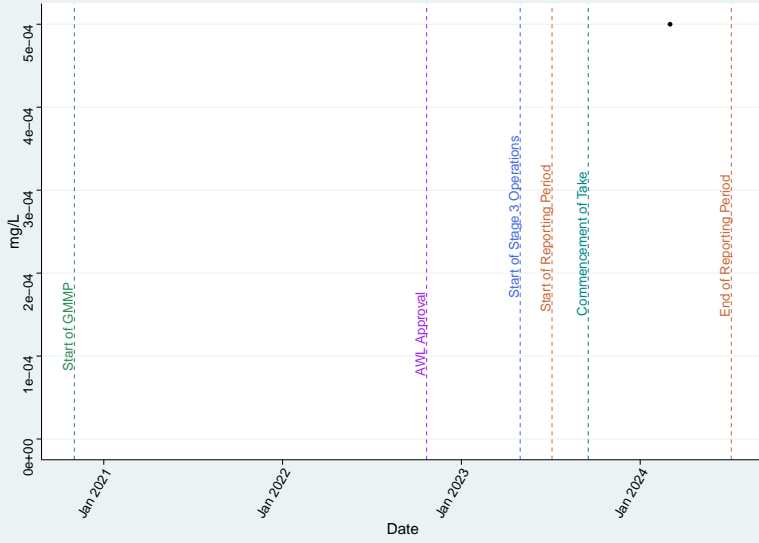
Bore WCS1 (Waipanna Coal Sequence) – Cl

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



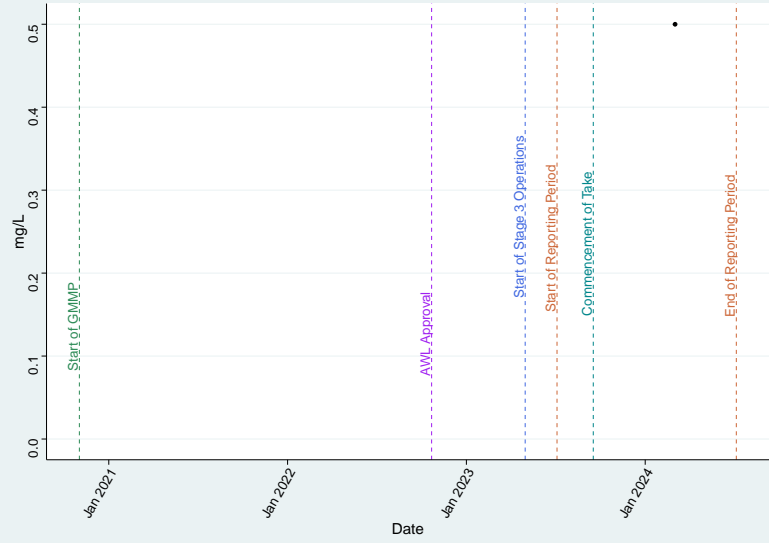
Bore WCS1 (Waipanna Coal Sequence) – Cu_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



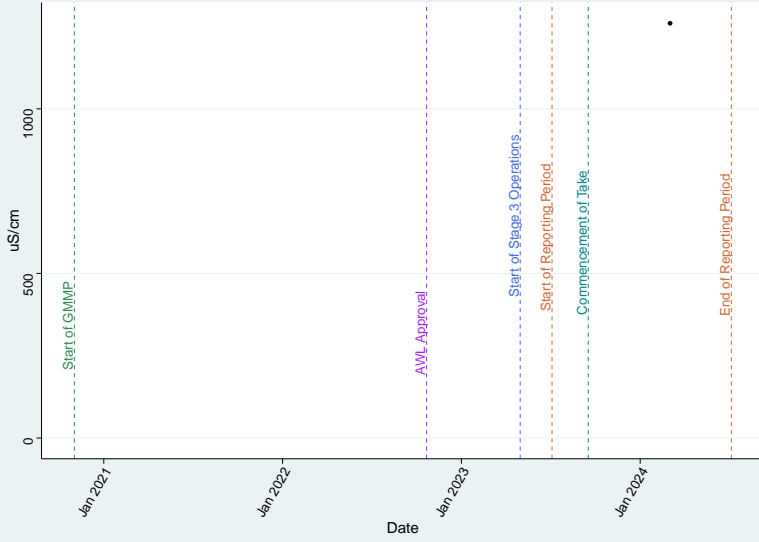
Bore WCS1 (Waipanna Coal Sequence) – DO_Field

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



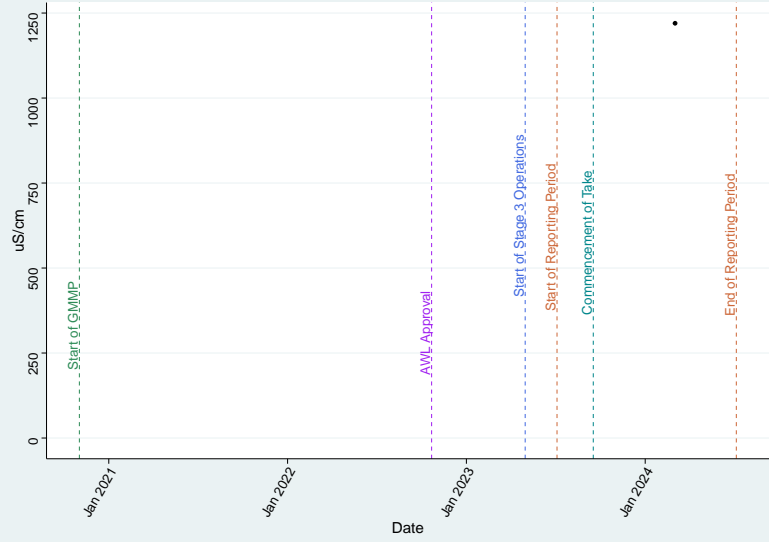
Bore WCS1 (Waipanna Coal Sequence) – EC_Field

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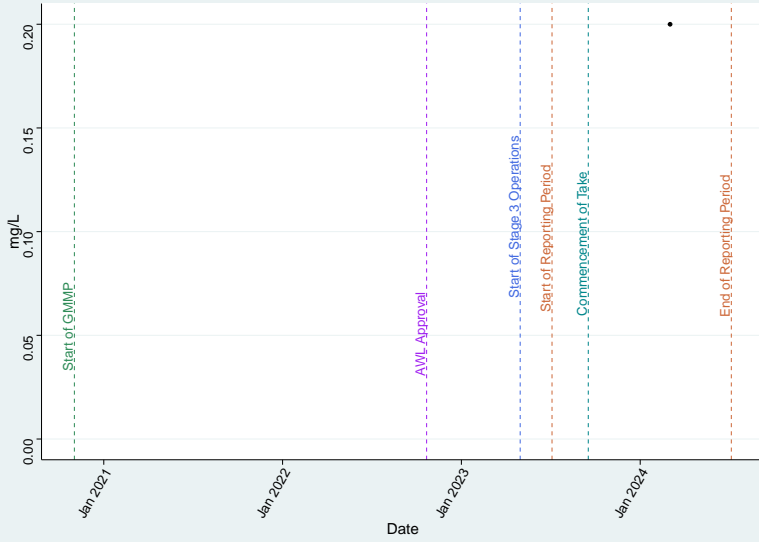
Bore WCS1 (Waipanna Coal Sequence) – EC_Lab

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



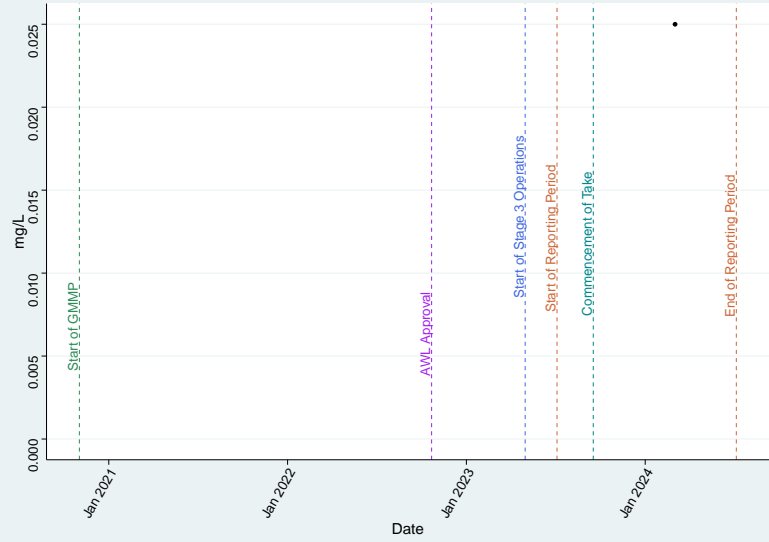
Bore WCS1 (Waipanna Coal Sequence) – F

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



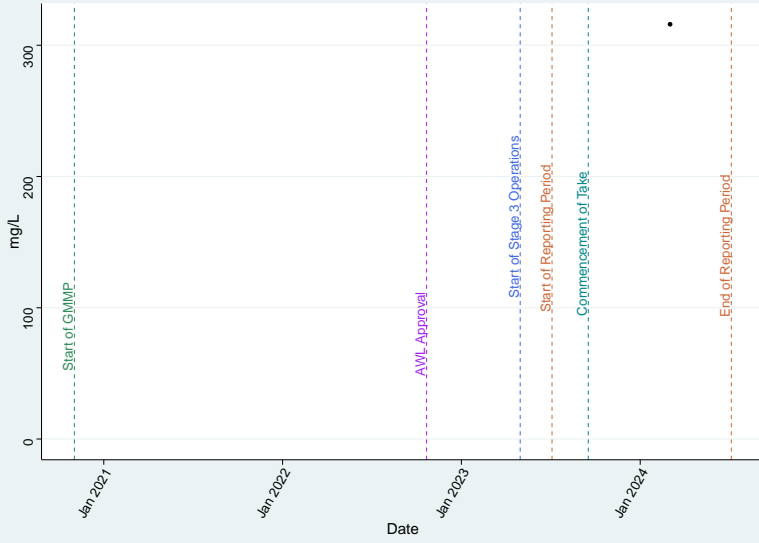
Bore WCS1 (Waipanna Coal Sequence) – Fe_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



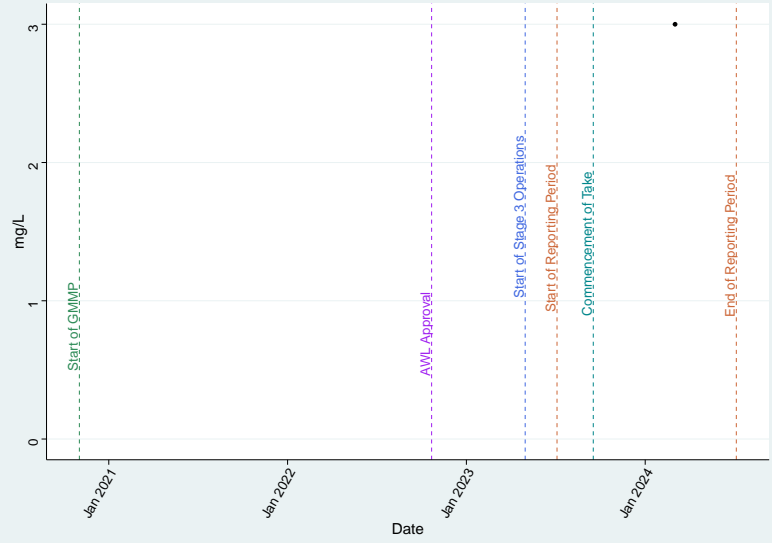
Bore WCS1 (Waipanna Coal Sequence) – HCO3

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



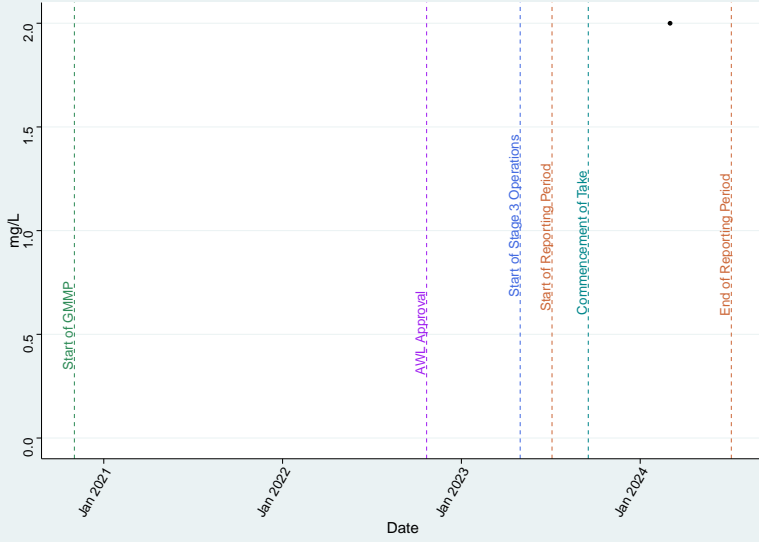
Bore WCS1 (Waipanna Coal Sequence) – K

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



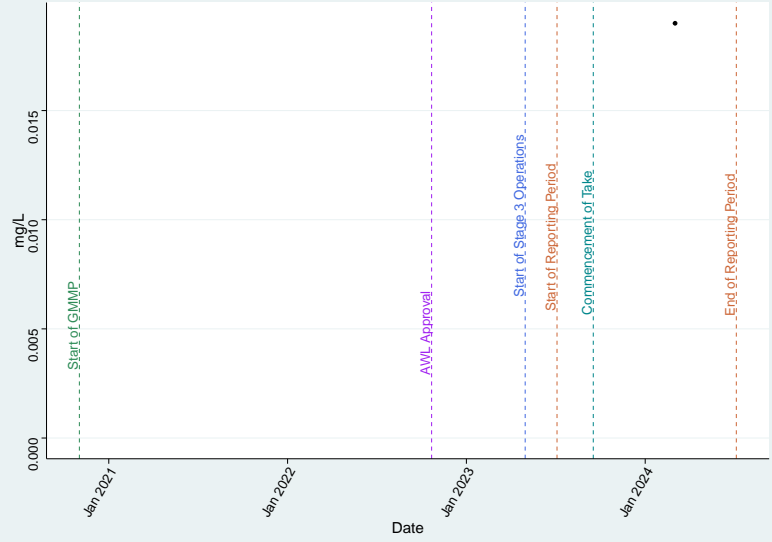
Bore WCS1 (Waipanna Coal Sequence) – Mg

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



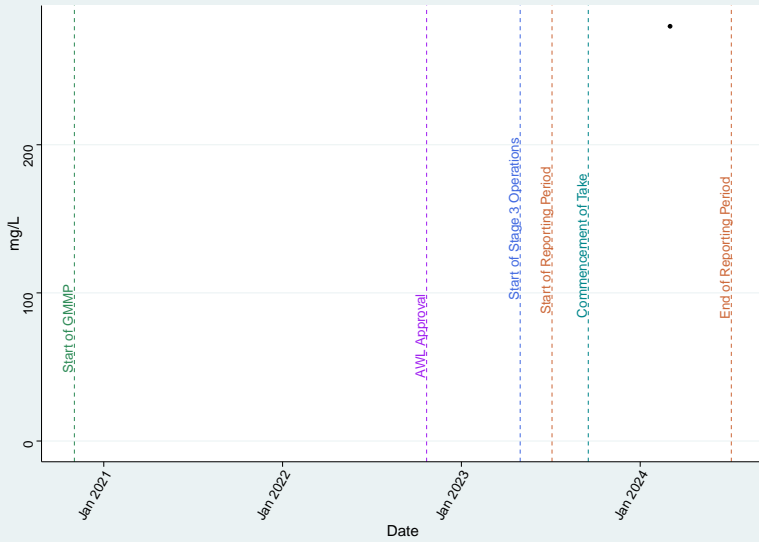
Bore WCS1 (Waipanna Coal Sequence) – Mn_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



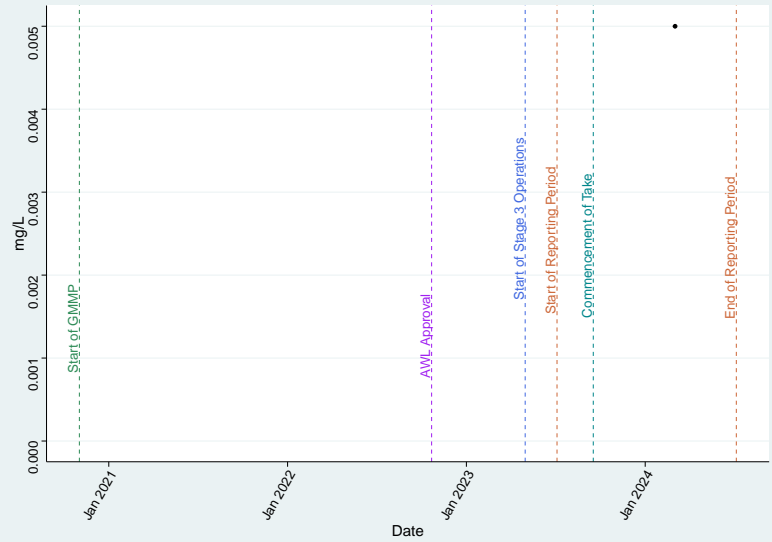
Bore WCS1 (Waipanna Coal Sequence) – Na

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



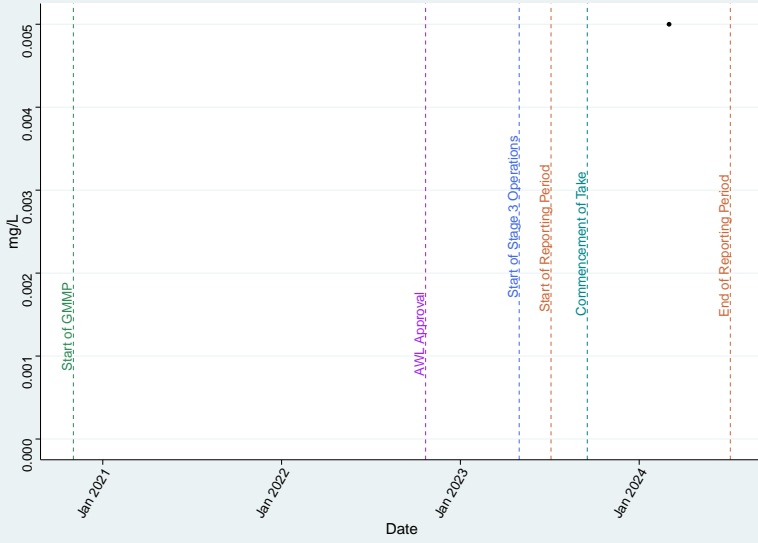
Bore WCS1 (Waipanna Coal Sequence) – Nitrate as N

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



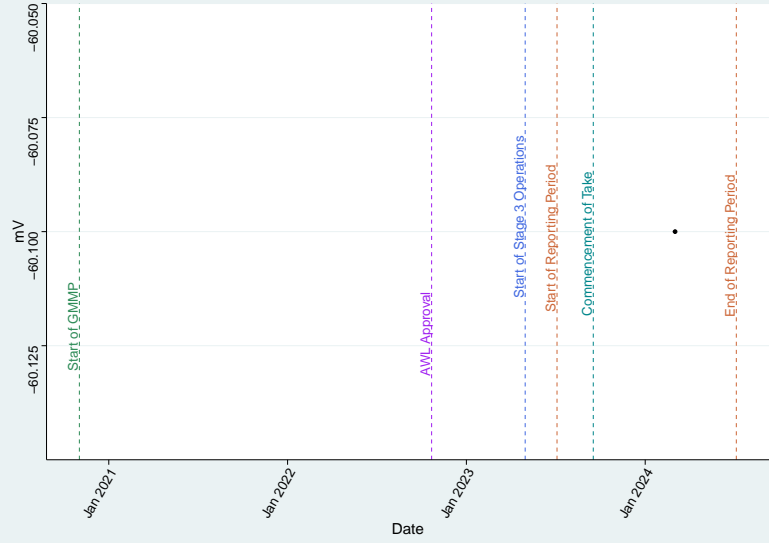
Bore WCS1 (Waipanna Coal Sequence) – Nitrite as N

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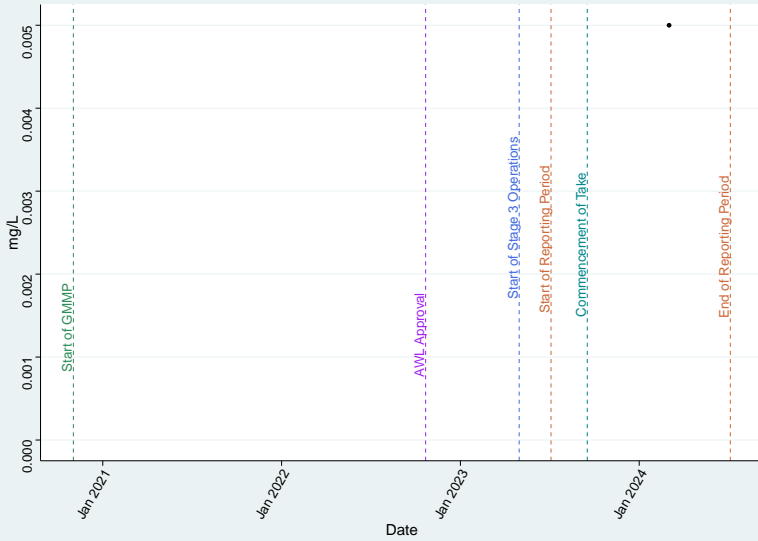
Bore WCS1 (Waipanna Coal Sequence) – Redox_Field

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



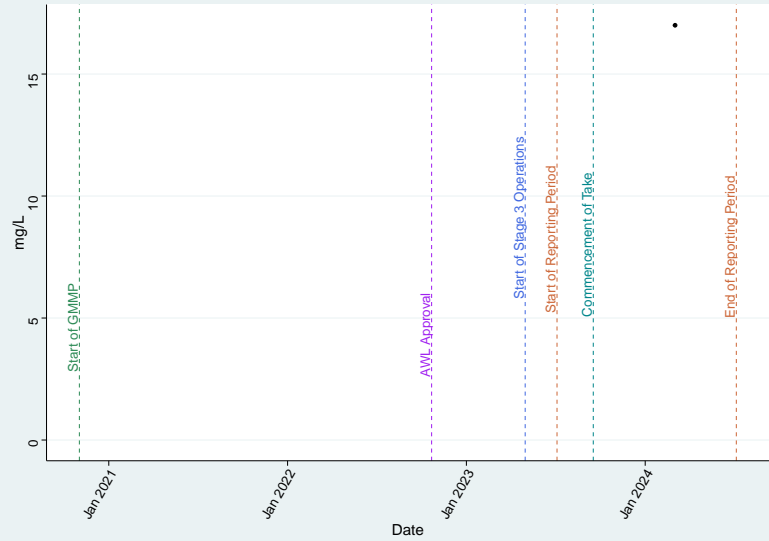
Bore WCS1 (Waipanna Coal Sequence) – Se_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



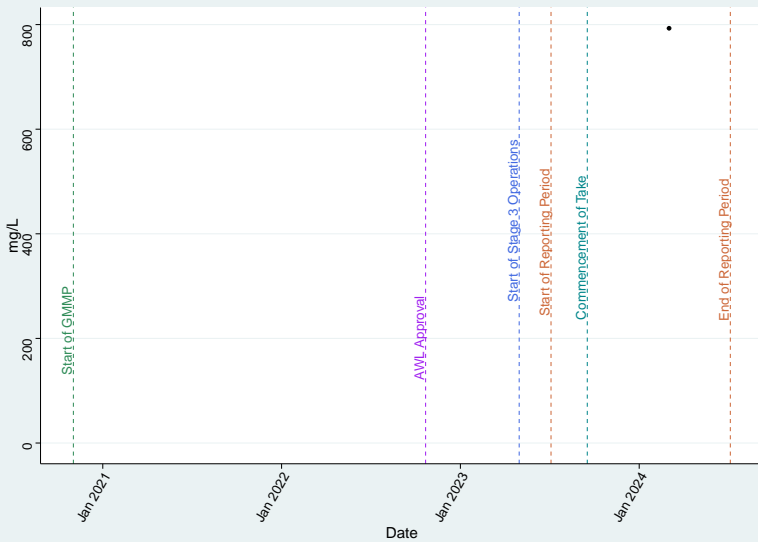
Bore WCS1 (Waipanna Coal Sequence) – SO4

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



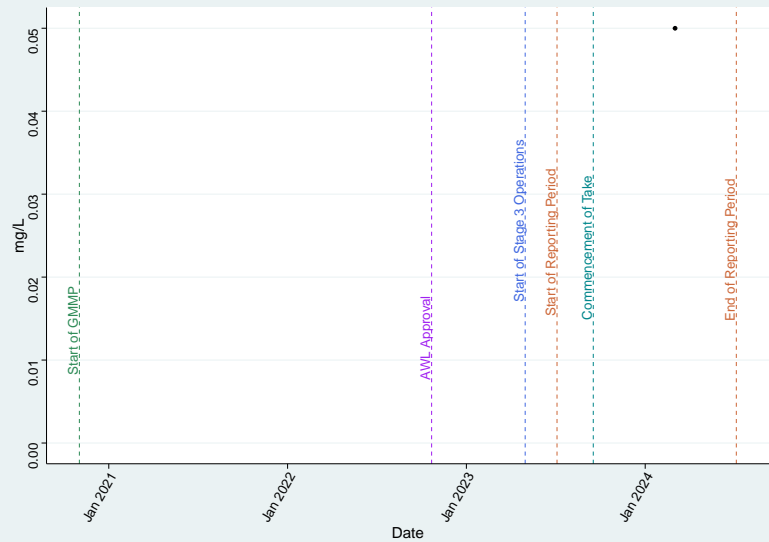
Bore WCS1 (Waipanna Coal Sequence) – TDS

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



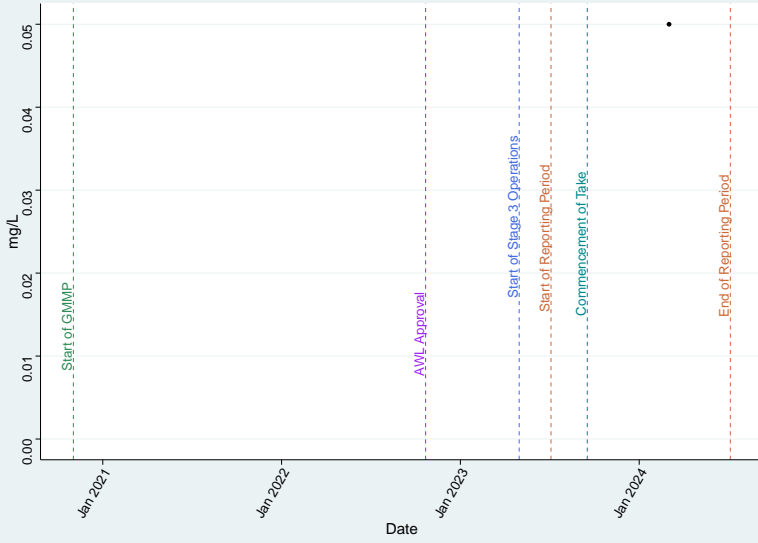
Bore WCS1 (Waipanna Coal Sequence) – TKN

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



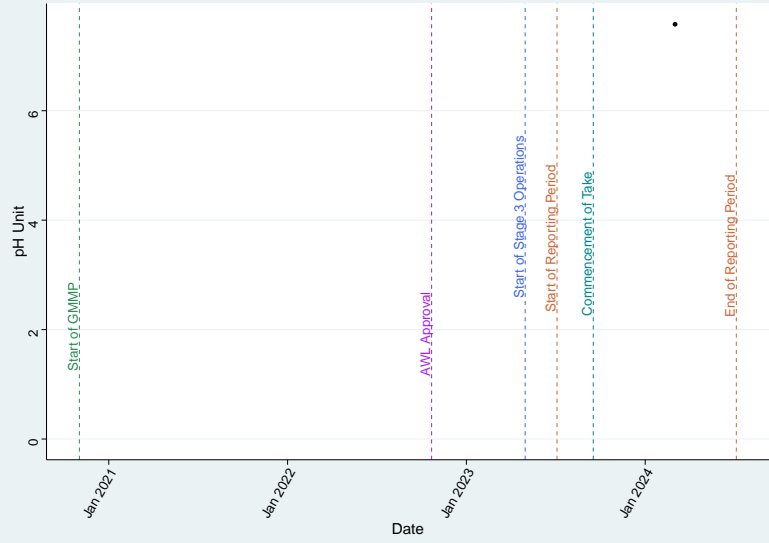
Bore WCS1 (Waipanna Coal Sequence) – Total_N

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



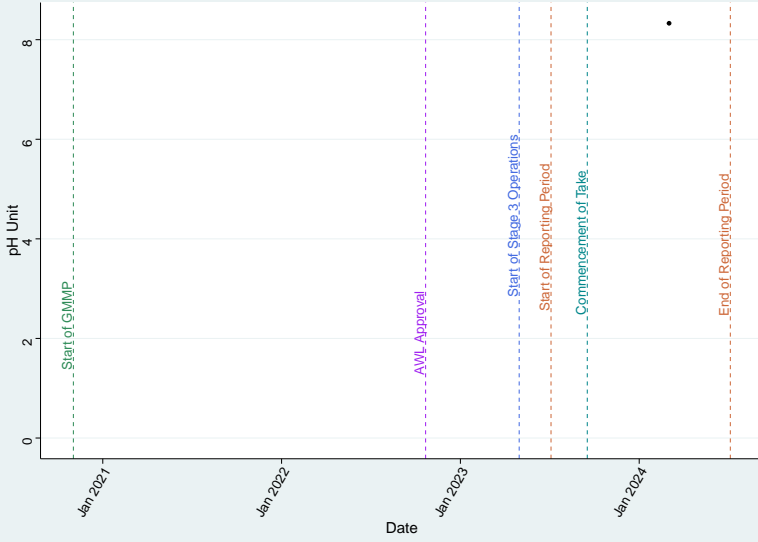
Bore WCS1 (Waipanna Coal Sequence) – pH_Field

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



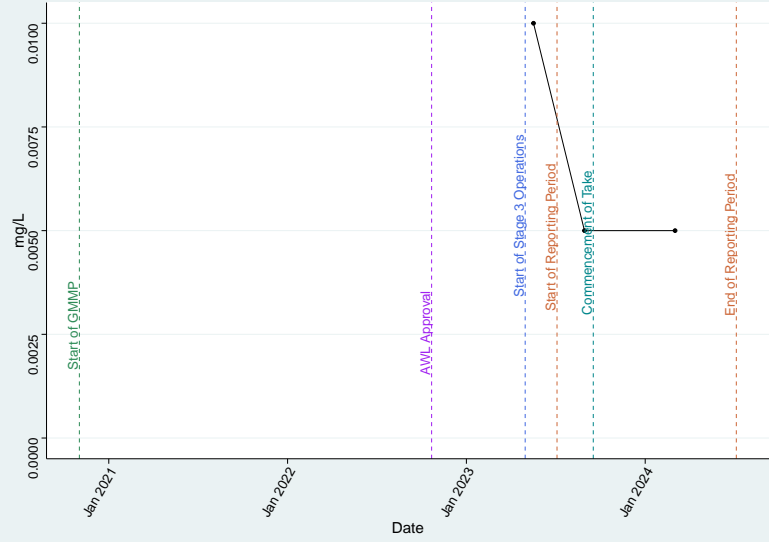
Bore WCS1 (Waipanna Coal Sequence) – pH_Lab

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



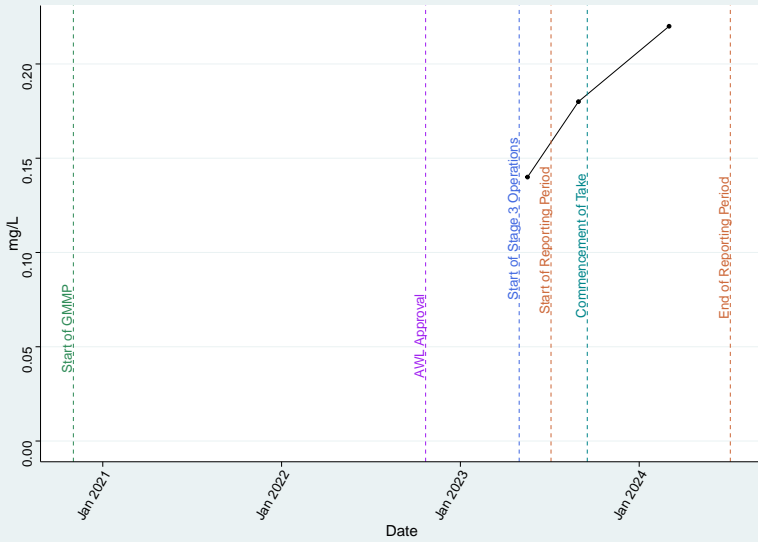
Bore WCS2 (Waipanna Coal Sequence) – Al_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



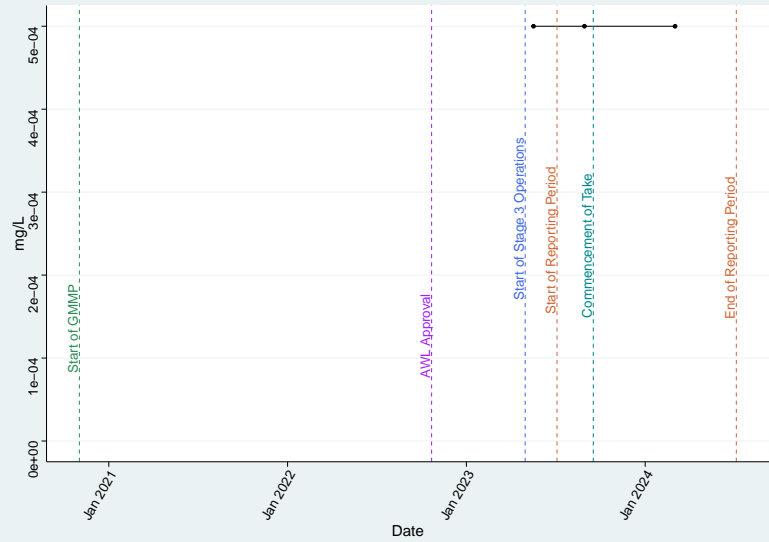
Bore WCS2 (Waipanna Coal Sequence) – Ammonia as N

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



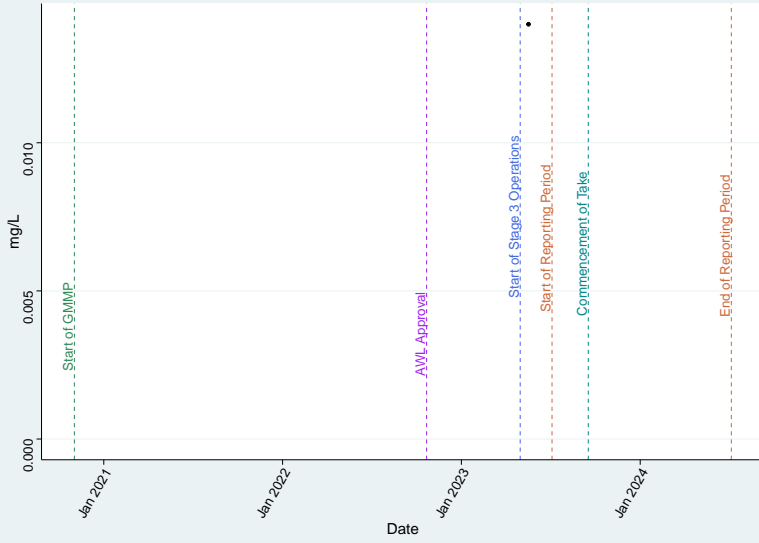
Bore WCS2 (Waipanna Coal Sequence) – As_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



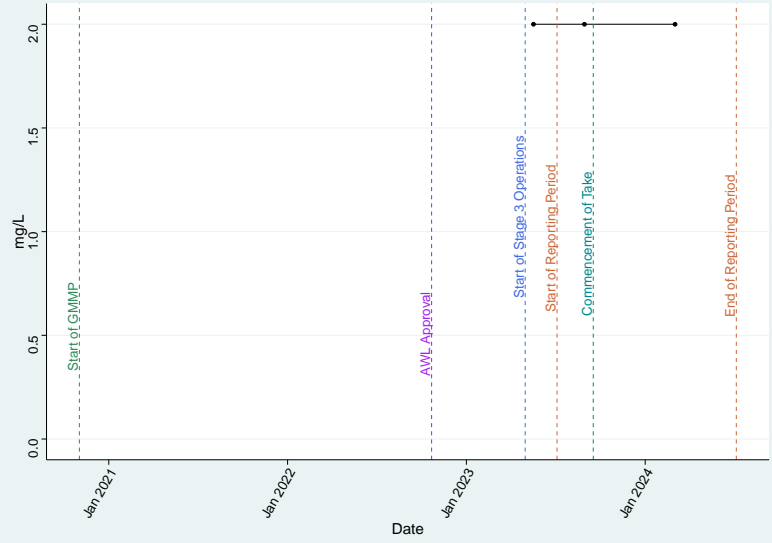
Bore WCS2 (Waipanna Coal Sequence) – Ba_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



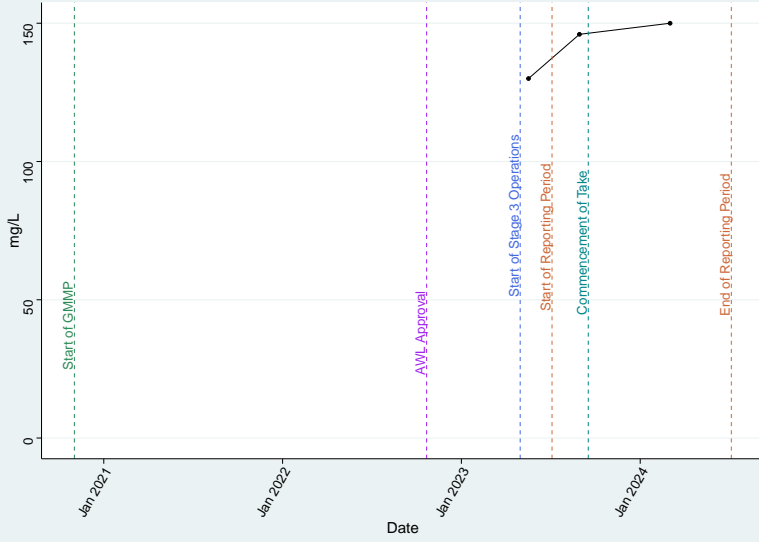
Bore WCS2 (Waipanna Coal Sequence) – Ca

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



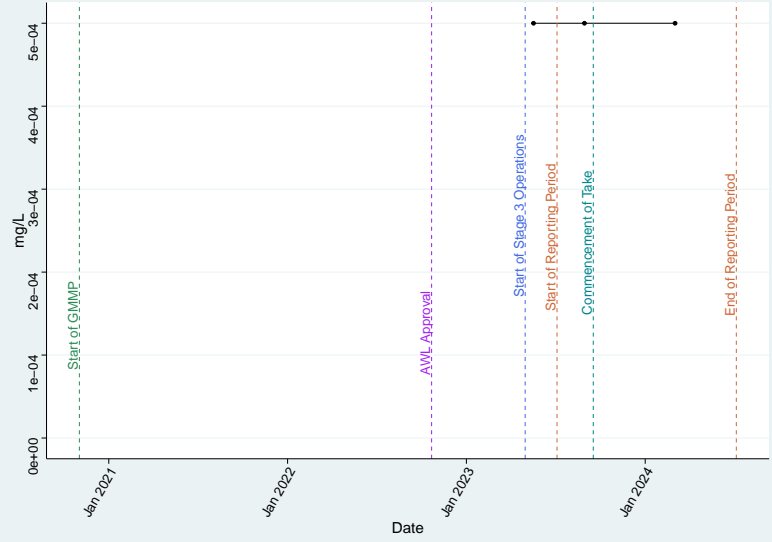
Bore WCS2 (Waipanna Coal Sequence) – Cl

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



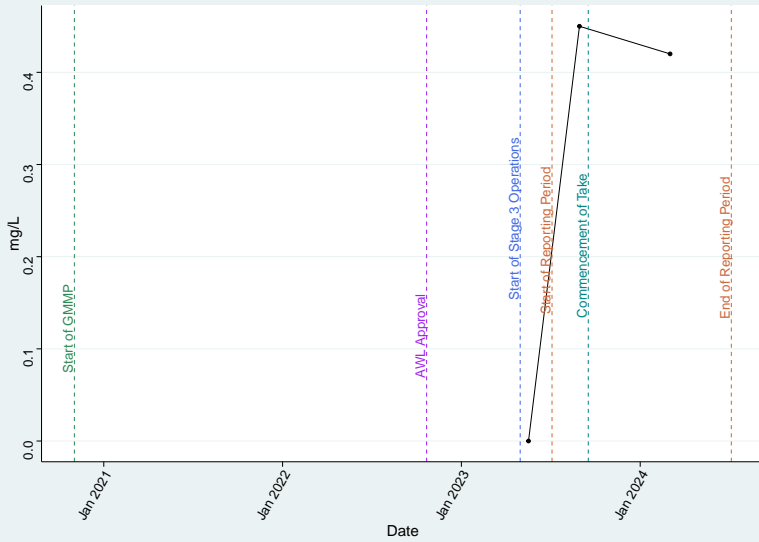
Bore WCS2 (Waipanna Coal Sequence) – Cu_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



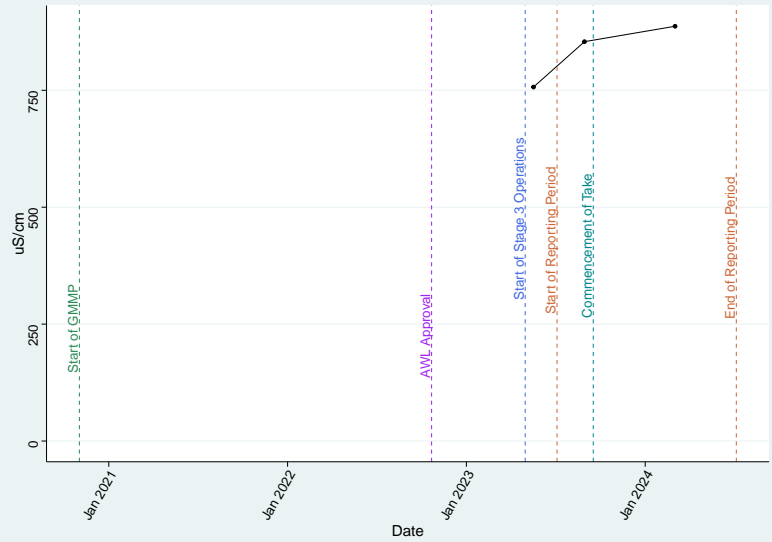
Bore WCS2 (Waipanna Coal Sequence) – DO_Field

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



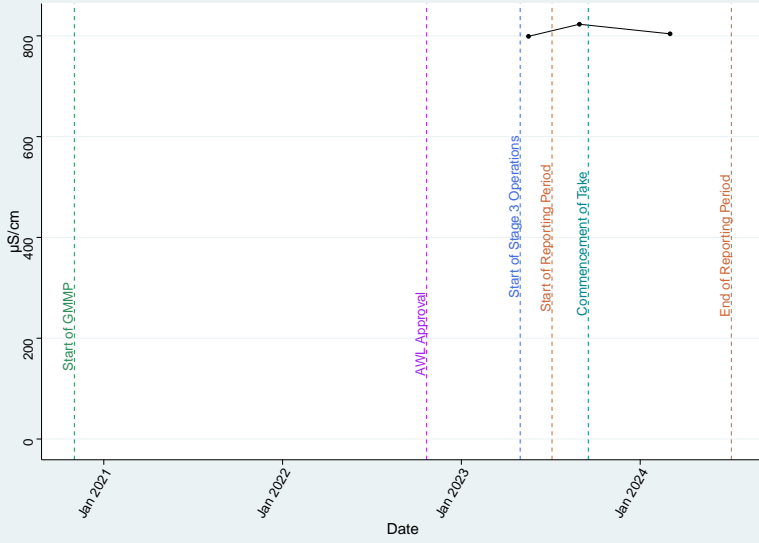
Bore WCS2 (Waipanna Coal Sequence) – EC_Field

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



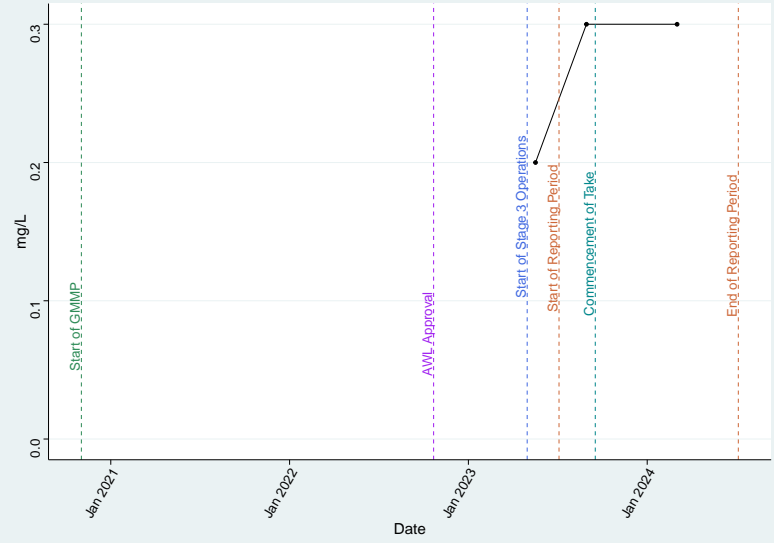
Bore WCS2 (Waipanna Coal Sequence) – EC_Lab

Mann Kendall Trend Test | τ = Not enough data | p -value = Not enough data | Not evaluated



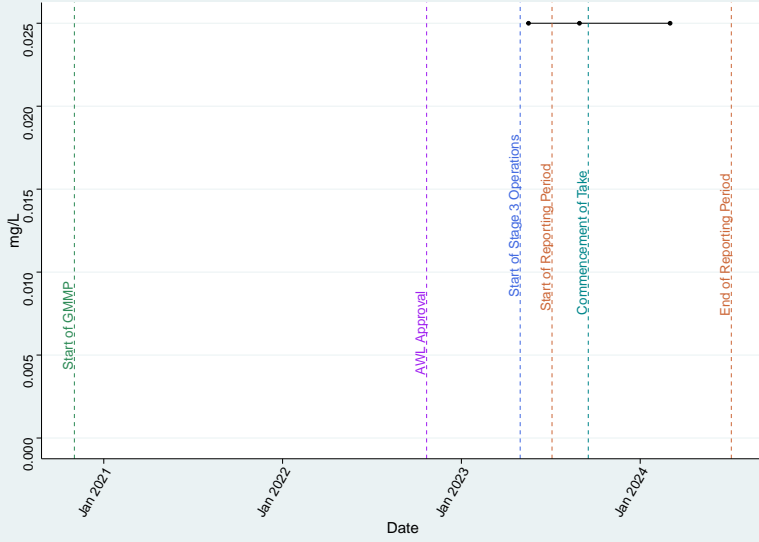
Bore WCS2 (Waipanna Coal Sequence) – F

Mann Kendall Trend Test | τ = Not enough data | p -value = Not enough data | Not evaluated



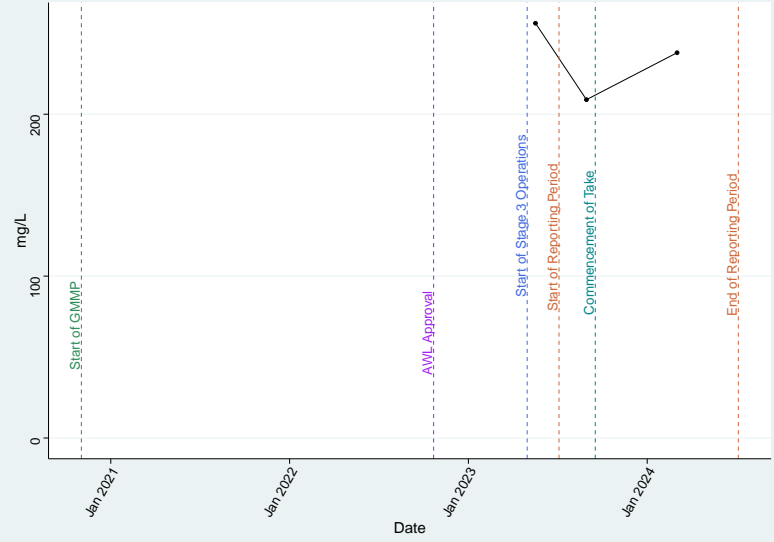
Bore WCS2 (Waipanna Coal Sequence) – Fe_diss

Mann Kendall Trend Test | τ = Not enough data | p -value = Not enough data | Not evaluated



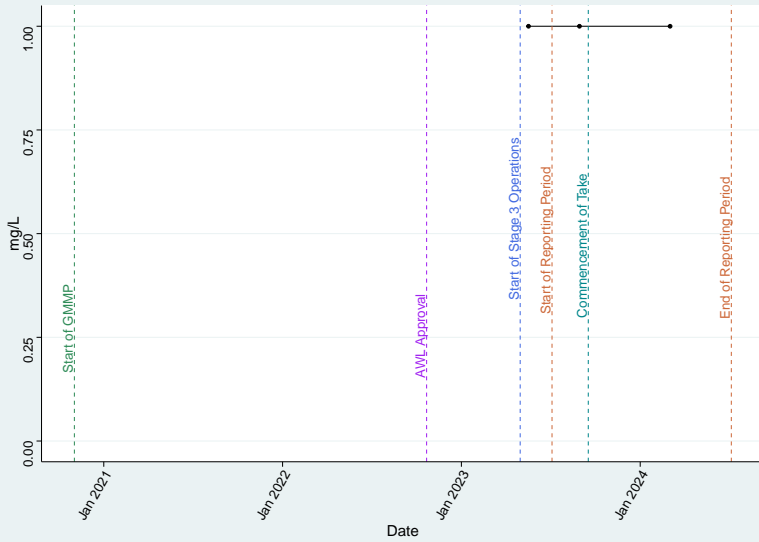
Bore WCS2 (Waipanna Coal Sequence) – HCO3

Mann Kendall Trend Test | τ = Not enough data | p -value = Not enough data | Not evaluated



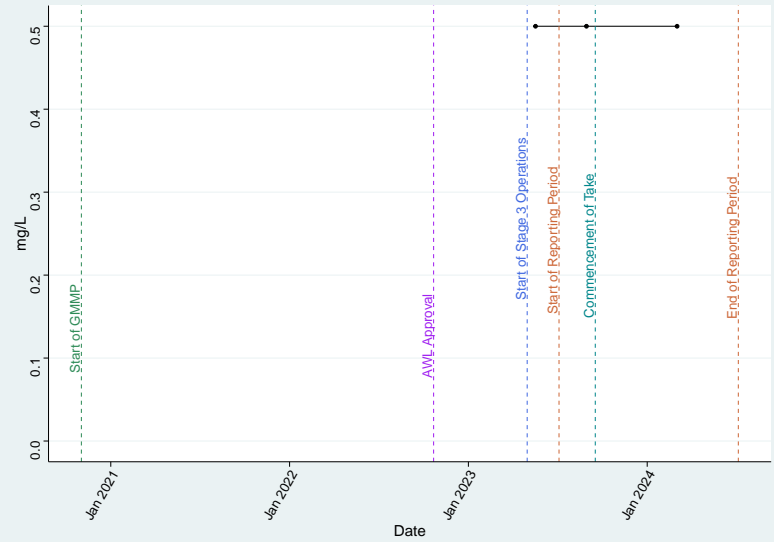
Bore WCS2 (Waipanna Coal Sequence) – K

Mann Kendall Trend Test | τ = Not enough data | p -value = Not enough data | Not evaluated



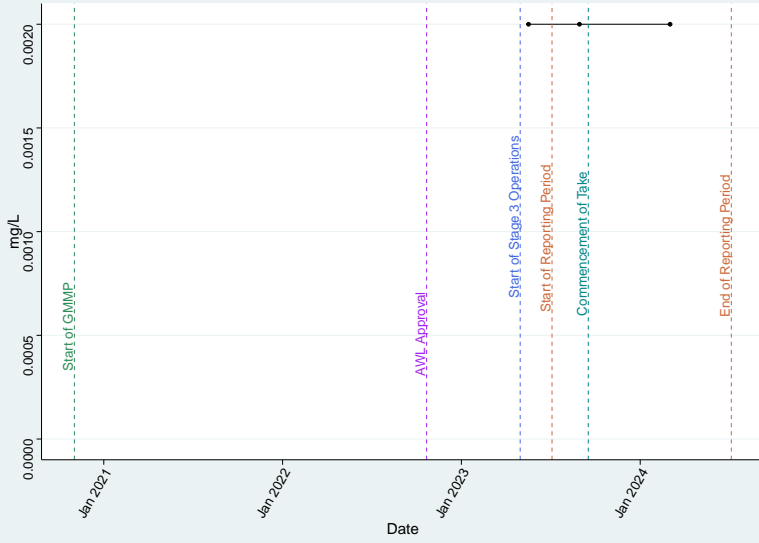
Bore WCS2 (Waipanna Coal Sequence) – Mg

Mann Kendall Trend Test | τ = Not enough data | p -value = Not enough data | Not evaluated



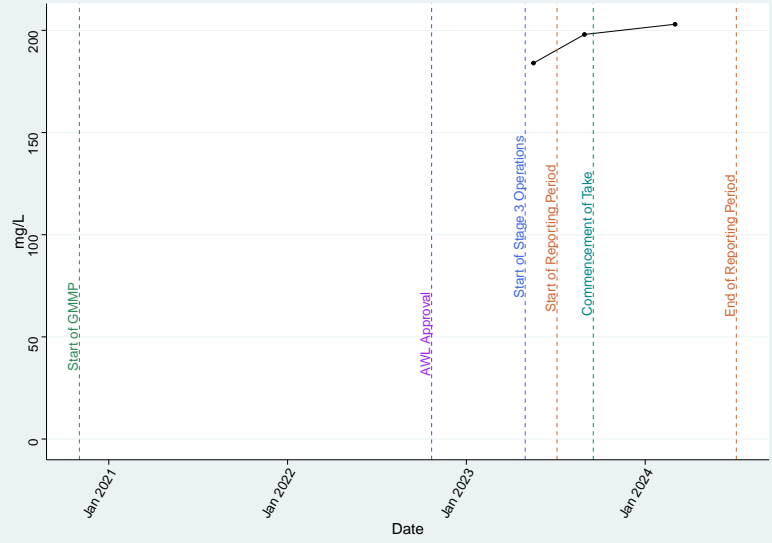
Bore WCS2 (Waipanna Coal Sequence) – Mn_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



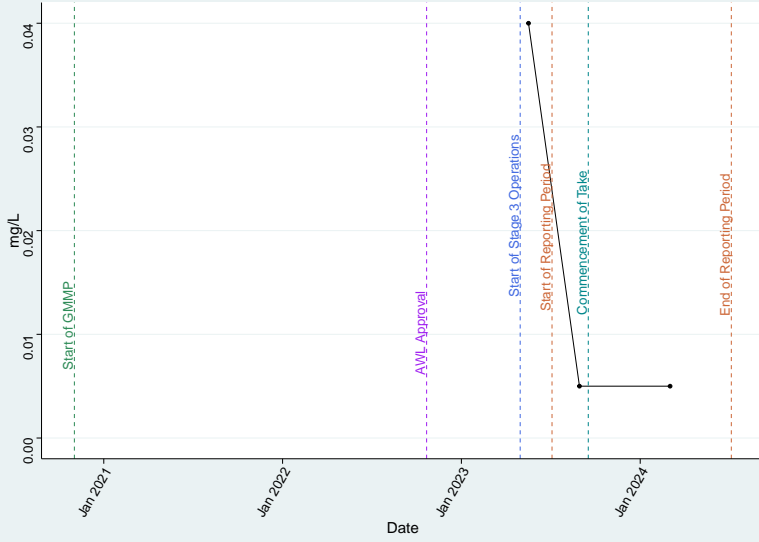
Bore WCS2 (Waipanna Coal Sequence) – Na

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



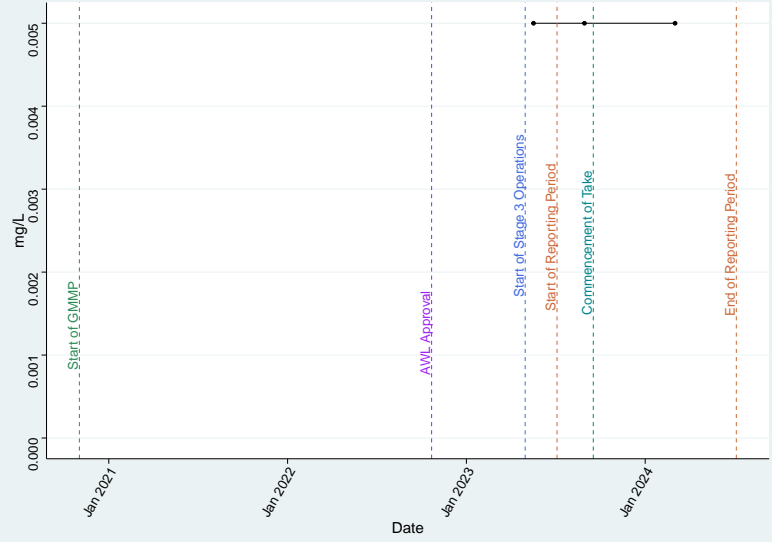
Bore WCS2 (Waipanna Coal Sequence) – Nitrate as N

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



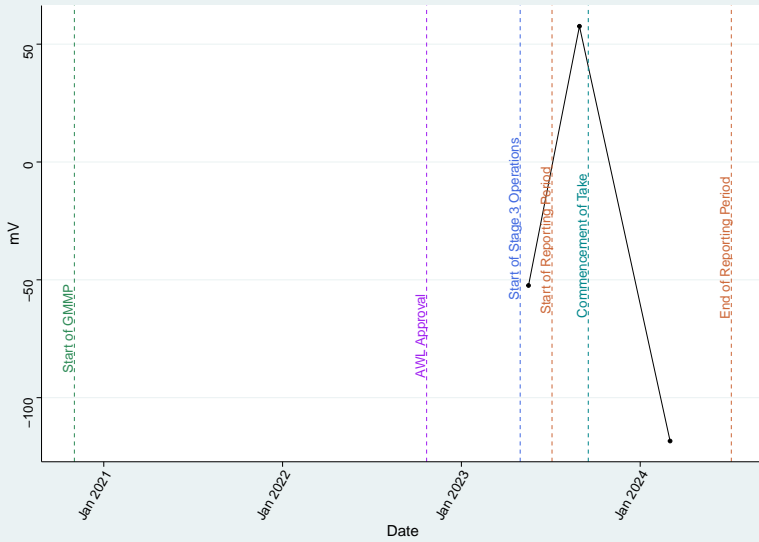
Bore WCS2 (Waipanna Coal Sequence) – Nitrite as N

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



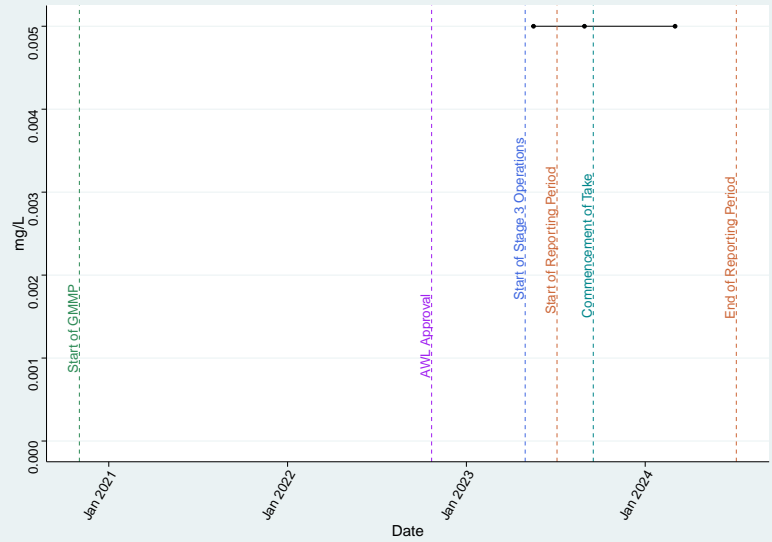
Bore WCS2 (Waipanna Coal Sequence) – Redox_Field

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



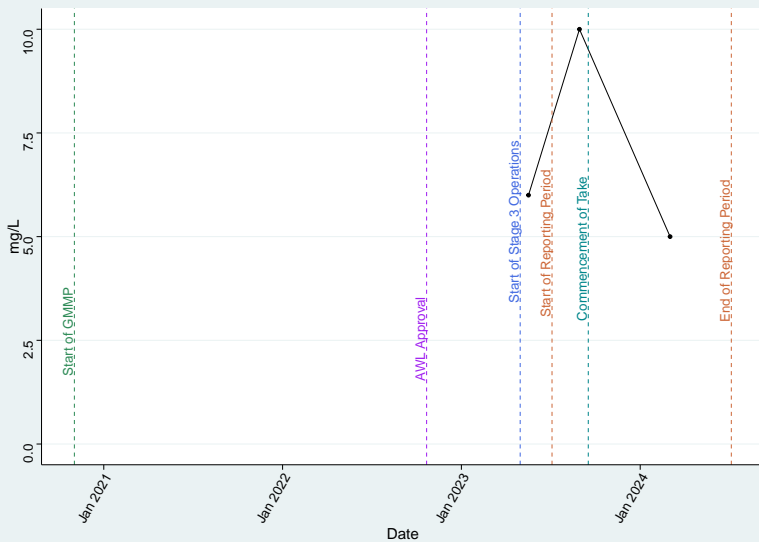
Bore WCS2 (Waipanna Coal Sequence) – Se_diss

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



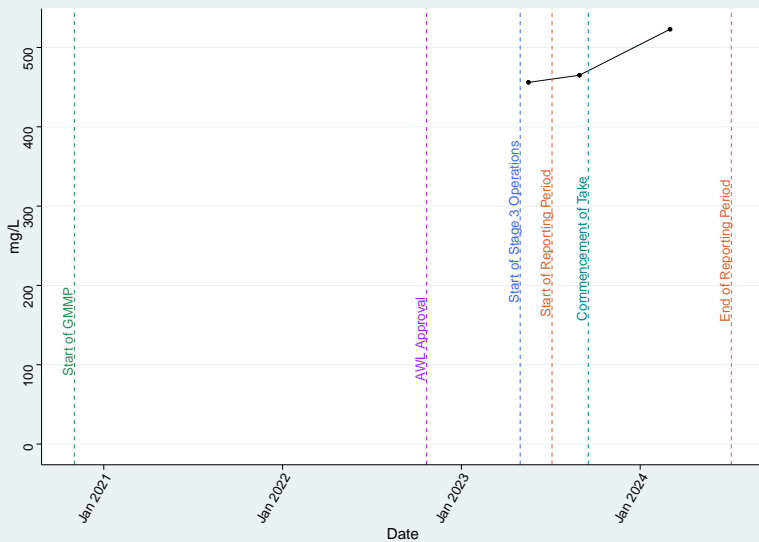
Bore WCS2 (Waipanna Coal Sequence) – SO4

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



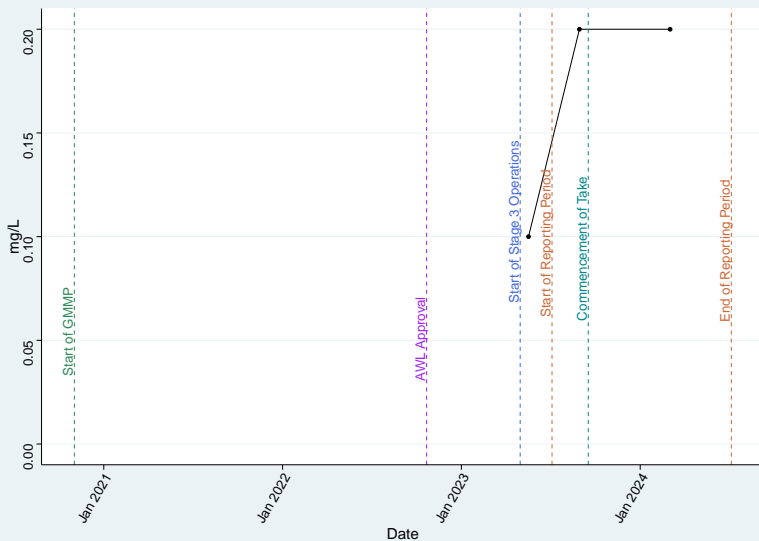
Bore WCS2 (Waipanna Coal Sequence) – TDS

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



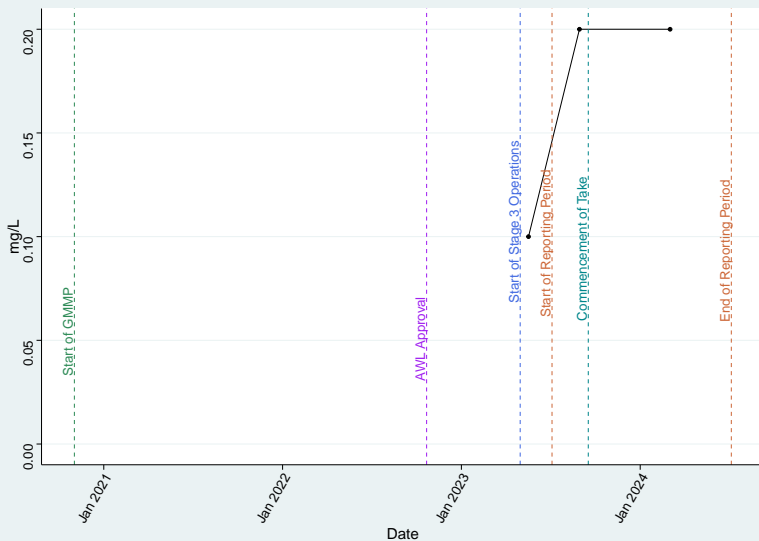
Bore WCS2 (Waipanna Coal Sequence) – TKN

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



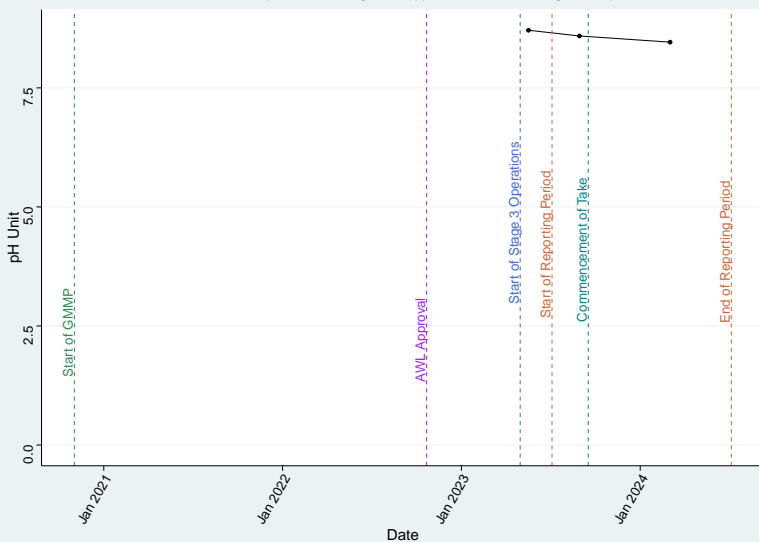
Bore WCS2 (Waipanna Coal Sequence) – Total_N

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



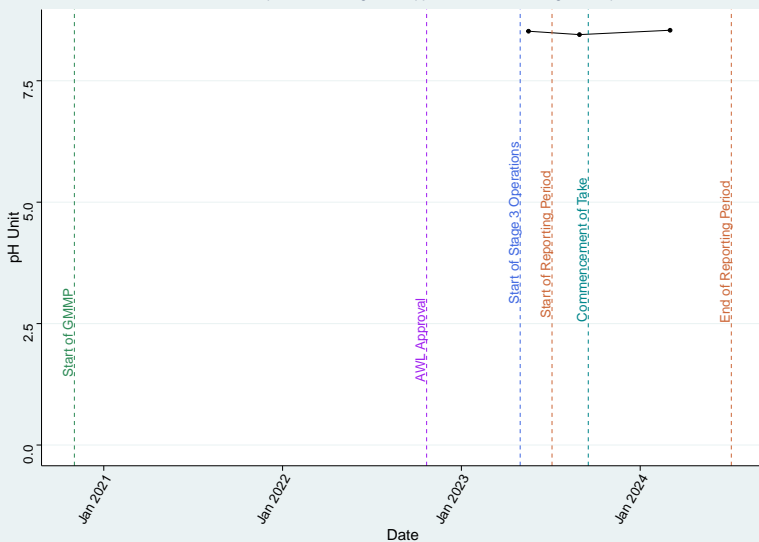
Bore WCS2 (Waipanna Coal Sequence) – pH_Field

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated



Bore WCS2 (Waipanna Coal Sequence) – pH_Lab

Mann Kendall Trend Test | τ = Not enough data | p-value = Not enough data | Not evaluated





Appendix D Water Quality Mann- Kendall Non-Seasonal Trend Analysis

Associated Water License 2024 Annual Monitoring Report

New Acland Stage 3 Project

New Acland Coal Pty Ltd

SLR Project No.: 620.041560.00001-v1.0

27 September 2024

Aquifer	Cain Creek Alluvium	Main Range Volcanics								Waipanna Coal Sequence	
		109PR	10PbR	84PbR	GW05A	GW15A	B1	B3	B4	WCS1	WCS2
Bore	A1	109PR	10PbR	84PbR	GW05A	GW15A	B1	B3	B4	WCS1	WCS2
Al_diss	na	na	No	No	No	No	na	na	na	na	na
As_diss	na	na	No	No	No	No	na	na	na	na	na
Ammonia as N	na	na	Yes-Upward	Yes-Upward	No	No	na	na	na	na	na
Ba_diss	na	na	No	No	No	No	na	na	na	na	na
Redox_Field	na	na	No	No	No	No	na	na	na	na	na
Ca	na	na	No	Yes-Downward	No	No	na	na	na	na	na
Cl	na	na	Yes-Downward	Yes-Downward	No	Yes-Upward	na	na	na	na	na
Cu_diss	na	na	No	No	No	No	na	na	na	na	na
DO_Field	na	na	No	No	No	No	na	na	na	na	na
EC_Field	na	na	No	Yes-Downward	No	No	na	na	na	na	na
EC_Lab	na	na	No	Yes-Downward	Yes-Downward	No	na	na	na	na	na
F	na	na	No	No	No	No	na	na	na	na	na
Fe_diss	na	na	No	No	No	No	na	na	na	na	na
Fe2	na	na	No	No	No	No	na	na	na	na	na
H2S	na	na	No	No	No	No	na	na	na	na	na
HCO3	na	na	Yes-Downward	No	Yes-Downward	Yes-Downward	na	na	na	na	na
K	na	na	No	No	No	No	na	na	na	na	na
Mg	na	na	No	Yes-Downward	No	No	na	na	na	na	na
Mn_diss	na	na	No	No	No	No	na	na	na	na	na
Na	na	na	No	Yes-Downward	No	No	na	na	na	na	na
Nitrite as N	na	na	No	No	No	No	na	na	na	na	na
Nitrate as N	na	na	Yes-Upward	No	Yes-Downward	No	na	na	na	na	na
pH_Field	na	na	No	No	No	Yes-Downward	na	na	na	na	na
pH_Lab	na	na	No	Yes-Upward	No	No	na	na	na	na	na
Se_diss	na	na	No	No	No	No	na	na	na	na	na
SO4	na	na	No	Yes-Downward	No	Yes-Downward	na	na	na	na	na
TDS	na	na	No	Yes-Downward	No	Yes-Upward	na	na	na	na	na
TKN	na	na	No	No	No	No	na	na	na	na	na
Total_N	na	na	Yes-Upward	No	Yes-Downward	No	na	na	na	na	na

na = not enough data to be statistically significant

Aquifer	Acland Coal Sequence												
	Bore	113PGCB	114P	116P	118P	119P	4517WB	4518WB	81PcR	82PcR	ACS1	ACS2	ACS3
Al_diss	No	No	No	na	na	No	No	na	No	na	na	na	na
As_diss	No	No	No	na	na	Yes-Upward	No	na	No	na	na	na	na
Ammonia as N	No	No	No	na	na	Yes-Downward	No	na	No	na	na	na	na
Ba_diss	No	No	No	na	na	No	No	na	na	na	na	na	na
Redox_Field	No	No	No	na	na	No	No	na	No	na	na	na	na
Ca	No	No	No	na	na	Yes-Downward	No	na	No	na	na	na	na
Cl	No	No	No	na	na	Yes-Downward	No	na	No	na	na	na	na
Cu_diss	No	No	No	na	na	No	Yes-Downward	na	No	na	na	na	na
DO_Field	No	No	No	na	na	No	No	na	No	na	na	na	na
EC_Field	No	Yes-Upward	No	na	na	Yes-Downward	Yes-Upward	na	No	na	na	na	na
EC_Lab	Yes-Downward	Yes-Downward	Yes-Downward	na	na	Yes-Downward	No	na	No	na	na	na	na
F	No	No	No	na	na	No	Yes-Upward	na	No	na	na	na	na
Fe_diss	No	No	No	na	na	No	Yes-Upward	na	No	na	na	na	na
Fe2	na	na	na	na	na	Yes-Downward	No	na	na	na	na	na	na
H2S	na	na	na	na	na	No	No	na	na	na	na	na	na
HCO3	Yes-Downward	No	Yes-Downward	na	na	Yes-Downward	No	na	No	na	na	na	na
K	No	No	No	na	na	Yes-Downward	No	na	No	na	na	na	na
Mg	No	No	No	na	na	Yes-Downward	No	na	No	na	na	na	na
Mn_diss	Yes-Downward	No	No	na	na	Yes-Downward	Yes-Downward	na	No	na	na	na	na
Na	No	No	No	na	na	Yes-Downward	Yes-Upward	na	No	na	na	na	na
Nitrite as N	No	No	No	na	na	No	No	na	No	na	na	na	na
Nitrate as N	No	No	No	na	na	No	No	na	No	na	na	na	na
pH_Field	No	No	No	na	na	Yes-Upward	Yes-Downward	na	No	na	na	na	na
pH_Lab	No	No	No	na	na	Yes-Upward	No	na	No	na	na	na	na
Se_diss	No	No	No	na	na	No	No	na	No	na	na	na	na
SO4	No	No	No	na	na	No	Yes-Upward	na	No	na	na	na	na
TDS	No	No	No	na	na	Yes-Downward	No	na	No	na	na	na	na
TKN	No	No	No	na	na	No	Yes-Upward	na	No	na	na	na	na
Total_N	No	No	No	na	na	Yes-Downward	No	na	No	na	na	na	na

na = not enough data to be statistically significant

Aquifer	Acland Coal Sequence							Marburg Sandstone					
	Bore	GW05B	GW06B	GW10	GW17AR	GW19A	111PGC LowerF	111PGC_UpperF	130WBR	41P	M1	M2	M3
Al_diss	No	No	No	na	No	No	na	na	na	na	na	na	na
As_diss	No	No	No	na	No	No	na	na	No	na	na	na	na
Ammonia as N	No	No	No	na	No	No	na	na	No	na	na	na	na
Ba_diss	No	No	No	na	No	na	na	na	na	na	na	na	na
Redox_Field	No	No	No	na	No	No	na	na	No	na	na	na	na
Ca	No	No	Yes-Downward	na	Yes-Downward	Yes-Upward	na	na	No	na	na	na	na
Cl	Yes-Upward	Yes-Upward	No	na	No	No	na	na	No	na	na	na	na
Cu_diss	No	No	No	na	No	No	na	na	No	na	na	na	na
DO_Field	No	No	No	na	No	No	na	na	No	na	na	na	na
EC_Field	No	No	No	na	No	No	na	na	No	na	na	na	na
EC_Lab	Yes-Downward	No	Yes-Downward	na	No	No	na	na	No	na	na	na	na
F	No	No	No	na	No	No	na	na	No	na	na	na	na
Fe_diss	No	No	No	na	No	No	na	na	na	na	na	na	na
Fe2	No	No	No	na	na	na	na	na	na	na	na	na	na
H2S	No	No	na	na	na	na	na	na	na	na	na	na	na
HCO3	Yes-Downward	Yes-Downward	Yes-Downward	na	Yes-Downward	No	na	na	No	na	na	na	na
K	No	No	No	na	No	No	na	na	No	na	na	na	na
Mg	No	No	Yes-Downward	na	No	No	na	na	No	na	na	na	na
Mn_diss	No	Yes-Upward	Yes-Downward	na	Yes-Upward	No	na	na	na	na	na	na	na
Na	No	Yes-Upward	No	na	No	No	na	na	No	na	na	na	na
Nitrite as N	No	No	No	na	No	No	na	na	No	na	na	na	na
Nitrate as N	No	No	No	na	No	No	na	na	No	na	na	na	na
pH_Field	Yes-Downward	Yes-Downward	Yes-Downward	na	No	No	na	na	No	na	na	na	na
pH_Lab	No	No	No	na	No	No	na	na	No	na	na	na	na
Se_diss	No	No	No	na	No	No	na	na	na	na	na	na	na
SO4	Yes-Downward	No	Yes-Upward	na	No	No	na	na	No	na	na	na	na
TDS	No	No	No	na	No	No	na	na	No	na	na	na	na
TKN	No	No	No	na	No	No	na	na	No	na	na	na	na
Total_N	No	No	No	na	No	No	na	na	No	na	na	na	na

na = not enough data to be statistically significant