RICHMOND QUARRY

Annual Review 2023
Calendar Year

IMS-COMP-G-0875-RQ

RICHMOND QUARRY

CONTENTS

DEFINITIONS

ANZECC	Australian and New Zealand Environment and Conservation Council
CCC	Community Consultative Committee
CEA	Central Extraction Area
DCCEEW	Department of Climate Change, Energy, the Environment and Water
DPI Water	Division of Water within the NSW Department of Planning, Industry and Environment.
DRE	Division of Resources & Energy within the NSW Planning, Industry and Environment
EAL	Environmental Analysis Laboratory
EPA	Environment Protection Authority
EPL	Environment Protection Licence
Extraction Area	The Central and Southern Extraction Areas, shown on Figure 9 in Appendix 6 of the Project Approval
EA	Richmond Quarry Expansion, Environmental Assessment Report prepared by ERM Pty Limited and dated February 2010
EA (MOD 1)	Modification Application MP 09_0080 MOD 1 dated April 2013
EA (MOD 2)	Modification Application MP 09_0080 MOD 2 dated February 2016, the accompanying annexures A and B and the response to submissions dated April 2016
EA (MOD 3)	Modification Application MP 09_0080 MOD 3 dated February 2017, titled Annexure A – Application pursuant to Section 75W of the Environmental Planning and Assessment Act 1979, and the response to submissions dated July 2017
DECC	Department of Environment & Climate Change
DRG	Department of Resources & Geoscience
IEA	Independent Environmental Audit
LCC	Lismore City Council
LMP	Landscape Management Plan
MP	Monitoring Point
Project Approval	Project Approval issued by Planning and Assessment Commission of New South Wales containing the CoA dated 30 August 2012 as amended from time to time
NAL	Noise Assessment Location
NATA	National Association of Testing Authorities
NHMRC	National Health and Medical Research Council
OEH	Office of Environmental Heritage
SEA	Southern Extraction Area
Reporting period	The 2021 calendar year

1.0 TITLE BLOCK

Name of operation	Richmond Quarry
Name of operator	YANSEA OPERATIONS PTY LTD
Development consent / project approval #	Part 3A Project Approval 09_0080
Name of holder of development consent / project approval	Richmond Quarry
Mining lease #	NA
Name of holder of mining lease	NA
Water licence #	NA
Name of holder of water licence	NA
MOP/RMP start date	NA
MOP/RMP end date	NA
Annual Review start date	1 January 2023
Annual Review end date	31 December 2023

I, Bruce Neumann, certify that this audit report is a true and an accurate record of the compliance status of Richmond Quarry for the period 1 January to 31 December 2023 and that I am authorised to make this statement on behalf of Richmond Quarry.

Note.

a) The Annual Review is an 'environmental audit' for the purposes of section 122B(2) of the Environmental Planning and Assessment Act 1979. Section 122E provides that a person must not include false or misleading information (or provide information for inclusion in) an audit report produced to the Minister in connection with an environmental audit if the person knows that the information is false or misleading in a material respect. The maximum penalty is, in the case of a corporation, $1 million and for an individual, $250,000.

b) The Crimes Act 1900 contains other offences relating to false and misleading information: section 192G (Intention to defraud by false or misleading statement—maximum penalty 5 years imprisonment); sections 307A, 307B and 307C (False or misleading applications/information/documents—maximum penalty 2 years imprisonment or $22,000, or both).

Name of authorised reporting officer	Bruce Neumann
Title of authorised reporting officer	Director
Signature of authorised reporting officer	
Date	16.4.2025

2.0 INTRODUCTION

2.1 SCOPE

This Annual Review has been prepared in accordance with Condition 4, Schedule 5 (Condition 4(5)) of Project Approval (MP 09_000) for Richmond Quarry. This review covers the calendar year reporting period from 1 January 2023 to 31 December 2023.

Condition 4(5) and all other relevant conditions required as part of the Annual Review are outlined in Table 1 with reference to the section of this report where each has been addressed.

Table 1: Relevant Conditions of Approval

Condition of Approval	Condition Requirements	Section Addressed in Report
Condition 4(5)	By the end of March each year, the Proponent must submit a report to the Department reviewing the environmental performance of the project to the satisfaction of the Secretary. This review must: (a) describe the development (including rehabilitation) that was carried out in the previous calendar year, and the development that is proposed to be carried out over the current calendar year;	3.1, 3.2, 3.3, 5.0, 6.0
	(b) include a comprehensive review of the monitoring results and complaints records of the project over the previous calendar year, which includes a comparison of these results against: • the relevant statutory requirements, limits or performance measures/criteria; • the monitoring results of previous years; and • the relevant predictions in the documents listed in condition 2(a) of Schedule 2;	5.1, 5.2, 5.3 5.4, 8.2, Appendix F
	(c) identify any non-compliance over the last year, and describe what actions were (or are being) taken to ensure compliance;	11.0
	(d) identify any trends in the monitoring data over the life of the project;	5.1, 5.2, 5.3 and 5.4
	(e) identify any discrepancies between the predicted and actual impacts of the project, and analyse the potential cause of any significant discrepancies; and	5.1, 5.2, 5.3 and 5.4
	(f) describe what measures will be implemented over the current calendar year to improve the environmental performance of the project.	3.0, 5.0, 6.0
Condition 19(2)	The Proponent must: (a) provide annual quarry production data to DRG using the standard form for that purpose; and (b) include a copy of this data in the Annual Review (see condition 4 of schedule 5).	3.1, Appendix B
Condition 30A(2)	The Proponent must make, and retain for at least 3 years, records of the time of dispatch, weight of load and vehicle identification for each laden truck dispatched from the project. These records must be made available to the Department on request and a summary included in the Annual Review.	11.1, 11.2 and 11.3

2.2 BACKGROUND

Richmond Quarry is a sandstone quarry located at 1668 Wyrallah Road, Tuckurimba NSW 2480 with the site's regional context shown in Figure 1 in Appendix A. The quarry has been in small scale operation on the site since 1959, and then commencing to operate under Lismore City Council's Development Consent (DA 2005/999).

In 2011, following geological testing the Quarry was recognised as State Significant resource. In 2012 a Part 3A expansion to 250,000 tonnes per annum extraction was approved by the NSW State government. In 2014 this approval was implemented after environmental controls were put in place.

Richmond Quarry is predominantly surrounded by agricultural grazing land.

On Wednesday the 22nd of May 2019 Richmond Quarry suspended quarrying activities onsite. During the 2023 reporting year, Richmond Quarry has continued to be suspended with only environmental monitoring and sediment and erosion maintenance activities being conducted onsite.

Company management are in the process of determining the future plans for the quarry in the longer term.

2.3 APPROVALS

A summary of all the approvals relevant to the Richmond Quarry site is provided in Table 2. Modification 3 of Project Approval 09_0080 was approved in August 2017 for the operation of a sand washing plant on-site.

No water extraction licence is required for operations.

Table 2: Summary of Approvals

Approval Type	Approval Number	Date Granted	Changes made to approval
Project Approval	09_0080	30 August 2012	Modification 3 granted on 9 August 2017.
Environmental Protection Licence	20562	10 April 2015	Minor licence variation made by EPA to vary sampling technique for total oil and grease from grab sample to visual inspection.

2.4 OPERATION MAPS

2.4.1 REGIONAL CONTEXT MAP

The regional location of the Richmond Quarry is detailed in Figure 1 of Appendix A.

2.4.2 PROJECT LAYOUT AND BIODIVERSITY OFFSET MAP

The project layout, showing the following is provided as Figure 2 of Appendix A. The project layout includes:

- Approved operational boundary.
- Approved extraction extent.
- Biodiversity Offset Areas.
- Protected Revegetation Area.

2.4.3 OPERATIONAL DISTURBANCE FOOTPRINT MAP

The current Quarry disturbance footprint is identified in Figure 3 of Appendix A.

2.4.4 ENVIRONMENTAL MONITORING LOCATIONS MAP

The environmental monitoring program for the site includes surface water, groundwater and dust monitoring as detailed in Figure 4 of Appendix A.

The noise monitoring locations at sensitive receivers is provided in the Noise Management Plan (v2.1) and Figure 3 of Project Approval 09_0080.

2.4.5 SITE PHOTOS

Site photographs of bunds and screening are detailed in Appendix E.

2.5 KEY ENVIRONMENTAL PERSONNEL CONTACT DETAILS

The contact details of key employees at Richmond Quarry are provided in Table 3 below.

Table 3: Environmental Personnel

Name	Position	Phone
Matt Duff	Quarry Manager	02 6622 0886
Steve Scifleet	QSE Manager	02 6674 7656
Conor Ryan-McGinn	QSE Coordinator	02 6674 7656

3.0 OPERATIONS SUMMARY

3.1 PRODUCTION SUMMARY

Table 4 and 5 describe the tonnes of product sold onsite during the calendar year.

Table 4: Production Summary

Material	Approved limit (specify source)	Previous Reporting Period (2019 actual)	Previous Reporting Period (2020 actual)	Previous Reporting Period (2021 actual)	Previous Reporting Period (2022 actual)	Current Reporting Period (2023 actual)
Saleable Product	250,000 t (MP 09_0080)	53,515.50 t	0t Currently suspended	0t Currently suspended	0t Currently suspended	0t Currently suspended

Table 5: Tonnes Sold Monthly

Month	Tonnes Sold
January 2023	0
February 2023	0
March 2023	0
April 2023	0
May 2023	0
June 2023	0
July 2023	0
August 2023	0
September 2023	0
October 2023	0
November 2023	0
December 2023	0
Annual Total	**0**

Annual production data for each financial year is reported to the Department of Regional NSW - Mining, Exploration and Geoscience. A copy of the form for the 2022/2023 financial year is provided in Appendix B. It should be noted that all other data reported within this Annual Review is presented on a calendar year basis in accordance with the requirements of the Project Approval 09_0080.

3.2 OPERATIONS CARRIED OUT DURING 2023

3.2.1 OPERATIONAL EXTENT

On Wednesday the 22nd of May 2019 Richmond Quarry suspended quarrying activities onsite. No processing of quarried materials was conducted post the suspension of the quarry. The only activities competed during the reporting period was the undertaking of care and maintenance. Company management are in the process of determining the future plans for the quarry in the longer term.

3.2.2 OPERATIONS COMPLETED

The only activities competed during the reporting period was the undertaking of care and maintenance.

3.2.3 SAND WASHING PLANT

No operations carried out.

3.2.4 HOURS OF OPERATION

In accordance with Condition 6(3) of Project Approval 09_0080, quarry operating hours are detailed in Table 6. The quarry does not operate on Sundays or public holidays.

Table 6: Operational Hours

Day	Quarry Operations including Construction Activities	Rock Hammer Operations
Monday to Friday	7 am to 6 pm	9 am to 12 pm and 2pm to 4pm
Saturday	8 am to 1 pm	None

Should operations restart following the suspension, Richmond Quarry will continue to operate within Progression 1 of the Southern Extraction Area, progressively moving into the Western Quadrant.

3.2.5 TRUCK MOVEMENTS

A register of truck movements is maintained on-site. A total of 0 truck dispatches from the site were recorded during the reporting period. Further discussion on truck movements is detailed within Section 11.0.

3.3 OPERATIONS TO BE CARRIED OUT DURING 2024

Richmond Quarry is currently not operating following the suspension of operations in May 2019. Should the site reopen the Quarry will continue to operate within Progression 1 of the Southern Extraction Area, progressively moving into the Western Quadrant.

Bund F shown in Figure 4 of Project Approval (MP 09_0080) is planned to be constructed, vegetated and planted with native endemic shrubs and trees in accordance with the Landscape Management Plan should operations recommence.

4.0 ACTIONS REQUIRED FROM PREVIOUS ANNUAL REVIEW

Table 7: Annual Review Actions

Action required from previous Annual Review	Requested by	Where discussed in Annual Review
Comprehensive review of air quality monitoring results.	DPE	Section 5.2 and Appendix F
Comprehensive review of surface and groundwater monitoring results.	DPE	Section 5.4.5 and 5.4.6
Predicted and actual impacts review	DPE	Predicted impacts are based on the nominated criteria proposed for each item within the environmental performance. The exceedance and control of these items where required addresses this request.

5.0 ENVIRONMENTAL PERFORMANCE

5.1 NOISE

Due to the suspension of Quarrying operations on the 22nd of May 2019 Richmond Quarry applied to the DP&E with a revised Noise Management Plan that suspended quarterly onsite Noise Monitoring until the reinstatement of quarrying operations. The DPI&E agreed to these changes in a letter dated 22 July 2019. Noise monitoring will recommence as required by the project approval upon recommencement of extractive operations.

Table 8: Noise Criteria for Richmond Quarry

Receiver	LA eq (15 min) dB(A)	Relevant Conditions
NAL 4 and NAL 5	38	Condition 5, Schedule 3 of PA 09_0080. Condition L4.1 of EPL 20562.
NAL2, NAL2A, NAL 3 and privately owned land along the southern end of Hazlemount Lane	37	
NAL 1 and other receivers	35	

5.2 AIR QUALITY

Site dust monitoring is performed on a monthly basis at the north east corner of the site that is nearest residential receiver (Receiver 2) the location of the dust monitoring location is shown in Figure 4 of Appendix A.

Sampling was completed from January through to July. During this time one exceedance was observed in January for deposit rate of Ash. No further exceedances were observed following this. Over the duration of the project deposit rates have generally remained below the nominated threshold. There has been sporadic spikes in deposition results, however these do not appear to correlate with extractive activities. It is likely that the spikes are a direct result of surrounding agricultural land uses. It was noted during the environmental assessment that receptors are likely to be impacted by surrounding land uses at times.

The environmental assessments utilised NEPM air quality reauirements adopted by the NSW DEC at the time of assessment. The thresholds of this assessment remain releveant to date includingng within the recently reviewed NSW EPA air quality policy which references NEPC.

Table 10 provides the dust monitoring results from 2023. On one occasion dust sampling was completed at an interval longer then required under the project approval being 30 days +/- 2 days. Air Quality sampling ceased from August 2023 onwards due to instruction from land owner that the site was not to be entered until commercial arrangements had been finalised.

Table 10: Monthly Dust Monitoring Results for Richmond Quarry 2023

Month	Sampling Days (30 days +/- 2)	Sample Comments	Sample Volume (L)	Deposit Rate of Insoluble Solids Total Suspended Solids		Deposit Rate of Ash (g/m^2 /mth)	Deposit Rate of Combustible Matter (g/m^2 /mth)
				(g/m^2 / mth)	(mg/m^2 /day)		
Trigger Values				**4**	**-**	**2**	**-**
Jan 23	30	Fine org matter, brown, cloudy	1.910	3.6	121	**3.2**	3.2
Feb 23	29	Fine org matter	1.100	1.3	42	0.8	0.5
Mar 23	32	Fine org matter	1.600	0.7	22	0.3	2
Apr 23	29	Small sticks, fine org	0.71L	0.2	7	0.1	0.1
May 23	30	Small bugs, fine org matter	1.680L	0.5	15	0.2	0.3
Jun 23	31	Bug, algae, fine and large org matter, cloudy	0.320L	1	32	0.4	0.4
Jul 23	39	Fine organic matter, cloudy	0.490L	2	67	1.2	3.2
Aug 23	NC*	NC*	NC*	NC*	NC*	NC*	NC*

Sept 23	NC*	NC*	NC*	NC*	NC*	NC*	NC*
Oct 23	NC*	NC*	NC*	NC*	NC*	NC*	NC*
Nov 23	NC*	NC*	NC*	NC*	NC*	NC*	NC*
Dec 23	NC*	NC*	NC*	NC*	NC*	NC*	NC*

*NC = Sampling not completed.

5.3 HERITAGE (ABORIGINAL AND NON-ABORIGINAL)

Heritage management conditions are covered under Conditions 34, 35 and 36 of Project Approval 09_0080. Site activities are operated within the operational footprint shown in Figure 2 in Appendix A. No Aboriginal or non-aboriginal heritage items were detected onsite in 2023. Previous cultural heritage investigations on-site have not detected any Aboriginal or non-aboriginals heritage items in the area. Table 11 below provides a summary of the heritage conditions and their implementation to date.

Table 11: Summary of Heritage Conditions

Project Approval Condition #	Details	Implementation
Condition 34, Schedule 3	This approval does not allow the Proponent to disturb any human remains found on site.	No human remains found on-site. This requirement is covered off with all employees during the site induction.
Condition 35, Schedule 3	Prior to causing any surface disturbance of the land in the sites for the: (a) Water Supply Dam; (b) Water Reuse Dam; and (c) Southern Extraction Area the Proponent must undertake targeted sub-surface archaeological investigations, in consultation with OEH and Aboriginal stakeholders, to the satisfaction of the Secretary.	Sub-surface investigations carried out on 29 November 2013. DPE supplied confirmation this has been completed to the satisfaction of the Sectreatry in 2022 after Richmond Quarry asked for clarification.

Project Approval Condition #	Details	Implementation
Condition 36, Schedule 3	The Proponent must prepare a Heritage Management Plan for the project to the satisfaction of the Secretary. This plan must: (a) be prepared in consultation with OEH and Aboriginal stakeholders; (b) be submitted to the Secretary for approval prior to carrying out any development on site (other than the construction of bunds and vegetative screening) under this approval; (c) include a detailed program for proposed targeted sub-surface archaeological investigations, including a strategic sampling methodology; and (d) describe the measures that would be implemented for: • monitoring all new surface disturbance on site for unidentified Aboriginal objects; • managing the discovery of any human remains or previously unidentified Aboriginal objects on site; and • ensuring ongoing consultation with Aboriginal stakeholders in the conservation and management of any Aboriginal cultural heritage values on site. The Proponent must implement the approved management plan as approved from time to time by the Secretary.	During 2023, the site operated under the Heritage Management Plan (Versions 2.0 and 2.1).

5.4 WATER MANAGEMENT

5.4.1 WATER LICENCES

Richmond Quarry does not hold a water licence for site operations. The water reuse dam on-site is used for the capture of stormwater generated in the disturbed area of the Quarry.

5.4.2 WATER DISCHARGES

No discharge events were completed during the 2023 Calender year.

5.4.3 SITE WATER BALANCE

No operational water was used in 2023 due to the suspension of operations.

5.4.4 WATER MANAGEMENT

The sites water management practises are described in the approved Water Management Plan (v2.1). This plan details how the site approaches the management of surface and groundwater onsite.

The site is currently collecting baseline data for all surface water and groundwater monitoring points to establish statistically derived site specific trigger levels. In the interim, monitoring results are compared against the following guidelines:

- Australian and New Zealand Guidelines for Fresh and Marine Water Quality (2000) (ANZECC Guidelines) – criteria for surface water and groundwater monitoring.
- National Health and Medical Research Council (2004) Australian Drinking Water Guidelines (NHMRC Guidelines) – criteria for groundwater monitoring.

5.4.5 SURFACE WATER MONITORING

The Water Management Plan for the site describes the surface water management measures that are to be implemented by site operations. To measure the effectiveness of these measures the Water Management Plan prescribes a surface water monitoring program. A description of this program is provided in Table 13 below, with the monitoring point locations identified on Figure 4 of Appendix A. A summary of the results from the surface water monitoring conducted in 2023 is detailed in Table 14 and the detailed results are located in Appendix D Table 1 and 2. Graphs of the monitoring results are shown in Appendix F.

Surface Water monitoring was only undertaken quarterly for the initial two quarters of the annual 2023 period. Surface water sampling ceased from August 2023 onwards due to instruction from land owner that the site was not to be entered until commercial arrangements had been finalised, these arrangements are still being finalised at the time of this review.

Table 13: Overview of Surface Water Monitoring Locations and Frequency

Monitoring Point	Type of Monitoring Point	Monitoring Frequency
MP1	Surface water monitoring – upstream on Tucki Tucki Creek – 1.5 km from site.	Quarterly
MP2	Surface water monitoring – downstream – 1.5 km from site.	Quarterly
MP3	Surface water monitoring – downstream of operational quarry.	Quarterly (when water levels permit)
MP4	Surface water monitoring – downstream of operational quarry.	Quarterly (when water levels permit)
MP5	Water Reuse Dam – near discharge point on the north-western corner.	Quarterly
MP6	Discharge Quality of stormwater overflow on the Water Reuse Dam - near discharge point on the north-western corner.	Prior to being discharged to receiving watercourses and daily while discharging
MP7	Water Reuse Dam (pH only) – Near EPL discharge point.	Weekly

Table 14: Surface Water Quality Parameters and Assessment Criteria

Parameters Analysed	Unit	ANZECC 2000 Trigger Values for Freshwater	Monitoring Points not meeting standards	Reasoning / Actions Taken
MONITORING POINTS 1-5 NOTE:				
pH (units)	-	6.5-8.5	MP1, MP2, and MP5	All surface water monitoring points were within the criteria for acceptable pH levels. pH level were consistent with historical results.
Conductivity	(dS/m)	0.350	Meets standards	All surface water monitoring points were below the criteria for conductivity. The site has been in care and maintenance since 2019. The onsite waterbodies monitoring results have consistently declined in this period, this is likely due to the natural stabilisation of the exposed areas along with the ceasation of inputs from extractive operations. The downstream water bodies MP1 and MP2 have remained consistent with in this time frame. This is likely due to inputs from farming lands continuing to discharge to the natural environment.
Nitrate (NO_3)	(mg/L)	0.7	Meets standards	All surface water monitoring points were below the criteria for nitrate as well as being below the analytical limit of reporting. Nitrate whas not been detected in the site surface water bodies since quarter one of 2020. Nitrate in downstream water bodies MP1 and MP2 were detected but below the nominated criteria. Nitrate in MP1 and MP2 have historically fluctuated with no observable trend. Flunctuations are likely owed to discharge from surrounding farm lands.
Aluminium (Al)	(mg/L)	0.055	MP1, MP2, and MP5	MP1, MP2, and MP5 measured above the lower limit of 0.055mg/L for all samples taken. Down stream MP1 and MP2 were singificantly higher then the detected onsite waterbody MP5. The heightened detection limits at MP1 and MP2 are likely owed to discharge from surrounding farm lands. The Aluminium levels will continue to be monitored and further investigations will be initiated in the event that the aluminium levels rise significantly above previous observed levels.
Total Arsenic (As)	(mg/L)	0.024	Meets standards	All surface water monitoring points were below the criteria for Arsenic as well as being below the analytical limit of reporting. This is consistent with hisotical data.

Parameters Analysed	Unit	ANZECC 2000 Trigger Values for Freshwater	Monitoring Points not meeting standards	Reasoning / Actions Taken
Cadmium (Cd)	(mg/L)	0.0002	Meets standards	All surface water monitoring points were below the criteria for Cadmium as well as being below the analytical limit of reporting. This is consistent with hisotical data.
Total Chromium (Cr)	(mg/L)	Not Specified[1]	Meets standards	All surface water monitoring points were below the criteria for Chromium as well as being below the analytical limit of reporting. Chromium has not been detected in the onsite waterbodies since quarter 1 2022. Chromium has not been detected at the down stream waterbodies since Quarer 4 2022. Chromium does not appear to conincide with any site operations. Chromium was detected during the 2010 environmental assessment. Consequently it is likely that Chromium exists in small quantites in the natural environment resulting in infrequent detection during natural flows.
Copper (Cu)	(mg/L)	0.0014	Meets standards	All surface water monitoring points were below the criteria for Copper as well as being below the analytical limit of reporting. Copper spiked briefly in 2018/19 with the intoroduction of sand washing, this was most notably observed at MP5. This was addressed through management processes utilising aglime. Since entering care and maintenance copper levels have reduced.
Mercury (Hg)	(mg/L)	0.0006	Meets standards	All surface water monitoring points were below the nominated criteria for mercury as well as being below the analytical limit of reporting.
Nickel (Ni)	(mg/L)	0.011	Meets standards	All surface water monitoring points were below the criteria for nickel as well as being below the analytical limit of reporting. Nickel has been below the nominated criteria since 2014.
Lead (Pb)	(mg/L)	0.0034	Meets standards	All surface water monitoring points were below the criteria for lead as well as being below the analytical limit of reporting. Lead has not been detected onsite since quarter 1 of 2019. Lead has only been detected onsite at MP5 since the commencement of operations. It is likely that the presence of lead in surface water does coincide with extractive operations. Lead has been sucessfully managed through the utilisation of aglime for pH adjustment and flocculation.

Parameters Analysed	Unit	ANZECC 2000 Trigger Values for Freshwater	Monitoring Points not meeting standards	Reasoning / Actions Taken
Zinc (Zn)	(mg/L)	0.008	Meets standards	All surface water monitoring points were below the criteria for Zinc. Zinc has consistently been recorded in monitoring data both on site and down stream. It is likely that the presence of Zinc in surface water does coincide with extractive operations. Zinc has been sucessfully managed through the utilisation of aglime for pH adjustment and flocculation.
MONITORING POINT 7				
pH (units)	-	6.5-8.5 (EPL 20562 and Water Management Plan)	MP7	MP7 is tested weekly for pH with results ranging from 6.59 – 7.38 during 2023. The re-use dam is required to be actively managed through the utilisation of agricultural and/or hydrated lime, As noted in the environmental assessment the project site soils are characterised as naturally acidic with a pH range of 4.5 – 5.3 noted.

ANZECC Guidelines do not specify a trigger value for total chromium (Cr) due to insufficient data. This will be established as part of the baseline criteria.

5.4.6 GROUNDWATER MONITORING

The Water Management Plan details a groundwater management plan for the site. The groundwater management plan describes the groundwater monitoring program for the site, with a summary provided below in Table 16 and the groundwater bore locations provided in Figure 4 of Appendix A.

Table 16: Overview of Groundwater Monitoring Locations and Frequency

Monitoring Point	Type of Monitoring Point	Monitoring Frequency
8	Groundwater level and quality monitoring – previously BH3	Quarterly
9	Groundwater level and quality monitoring – previously BH5	Quarterly
10	Groundwater level and quality monitoring – previously BH6	Quarterly
12	Groundwater level and quality monitoring – previously BH7	Quarterly

Available Groundwater bores were sampled on a quarterly basis for the initial two quarters of 2023. Ground water sampling ceased from August 2023 onwards due to instruction from land owner that the site was not to be entered until commercial arrangements had been finalised, these arrangements are still being finalised at the time of this review.

A summary of the results from the groundwater monitoring conducted in 2023 is detailed in Table 18 and the detailed results are located in Appendix D Table 3 and Table 4. Graphs of the monitoring results are shown in Appendix F.

Until site specific trigger values have been established for the groundwater monitoring bores, Richmond Quarry uses the ANZECC trigger values for freshwater and the NHMRC Drinking Water Guidelines as a baseline for monitoring data.

During 2023, groundwater monitoring data met the criteria for the NHMRC Drinking Water Guidelines for multiple moitoring points at MP9, MP10, MP12 (except pH). MP8 which exceeded values on multiple parameters. Minor exceedances were recorded against the ANZECC trigger values at varying sites. The pH for the surrounding areas surface and groundwater is well established to be slightly acidic. Groundwater monitoring data for pH was lower than the criteria set by both of the guidelines.

Table 17: Groundwater Quality Parameters and Assessment Criteria

Parameters Analysed	Unit	ANZECC 2000 Trigger Values for Freshwater	NHMRC Drinking Water Guidelines	Monitoring Points not meeting standards	Reasoning / Actions Taken
pH (units)	-	6.5-8.5	6.5-8.5	MP8,MP9, MP10, and MP12	The pH at all groundwater bores has been consistently below the ANZECC Guidelines. The range in pH for each of the groundwater bores during 2023 has not changed significantly from previous years with result ranges for the period January 2023 - June 2023 provided below: • MP8: pH 3.65 - 3.67 • MP9: pH 5.24 – 5.30 • MP10: pH 4.45 - 4.82 • MP12: pH 5.00 – 5.59 The Environmental Assessment noted that the pH of nearby soil and receiving waters are mildly acidic pH 4.5 – pH 5.3. The establishment of site specific trigger levels will assist in defining pH levels more reflective of the local conditions.
Conductivity	(dS/m)	0.350	n/s	MP8	MP8, 9, 10 and 12 were sampled on two occasions. The trigger value was exceeded on both occasions at MP8. Due to land access restrictions MP8 was not sampled between quarter 2 2018 to Quarter 1 2022, consequently a data gap exists, regardless results from monitoring up to 2018 and 2022 onwards are consistent between both periods. It was noted during the environmental assessment that subsurface flows likely follow the natural landform toward tucki tucki creek in a north to east direction. Consequently subsurface flows associated with MP8 are considered down stream/adjacent to the current extractive area. Considering the current location of the extractive area and suggested flow it is unlikely that results at MP8 are indicative of the operation. It is likely that the results are indicative of the natural minerals and salts present within the soil being dissolved within the groundwater. These values will be continued to be monitored and further investigations will be initiated in the event that the conductivity levels continue to

Parameters Analysed	Unit	ANZECC 2000 Trigger Values for Freshwater	NHMRC Drinking Water Guidelines	Monitoring Points not meeting standards	Reasoning / Actions Taken
					rise above previous observed levels once the extractive area has progressed.
Nitrate (NO_3)	(mg/L)	0.7	50	Meets standards	All groundwater monitoring bores were below the criteria for Nitrate. This is consistent with historical data.
Aluminium (Al)	(mg/L)	0.055	0.2	MP8 and MP10	MP8 and MP10 breached trigger values on both occasions. MP9 and MP12 remained below the threshold. This trend is consistent with historical data. These values will be continued to be monitored and further investigations will be initiated in the event that the Aluminium levels continue to rise above previous observed levels.
Total Arsenic (As)	(mg/L)	0.024	0.01	Meets standards	All groundwater monitoring bores were below the criteria for Arsenic as well as being below the analytical limit of reporting, This is consistent with historical data.
Cadmium (Cd)	(mg/L)	0.0002	0.002	Meets standards	All groundwater monitoring bores were below the criteria for Cadmium as well as being below the analytical limit of reporting, This is consistent with historical data.
Total Chromium (Cr)	(mg/L)	Not Specified[1]	0.054	Meets standards	All groundwater monitoring bores were below the criteria for Chromium. This is consistent with historical data.
Copper (Cu)	(mg/L)	0.0014	2	MP8, MP9, MP10, and MP12	All samples were above the trigger value for copper. M9, MP10 and MP12 were similar to historical records. MP8 was significantly higher then the other monitoring points. It was also steadily increasing over the two quarters sampled as quarters it was sampled. The results are higher than historical records. Due to access issues to MP8 there is limited data to enable the identification of a trend at this time. All samples are well below drinking water guidelines. MP8 consistently has heigntended levels of metals compared to other MP's onsite. It is likely that the natural compositon of the soil at this location contains more minerals or subsurface flows have had extended periods of time to dissolve minerals due to low hydraulic conductivity. Regardless of the

Parameters Analysed	Unit	ANZECC 2000 Trigger Values for Freshwater	NHMRC Drinking Water Guidelines	Monitoring Points not meeting standards	Reasoning / Actions Taken
					influencing factors MP8 is not considered to be impacted by the operational area due to the current extent of the diturbed are and north east flow direction of the sub surface flows. These values will be continued to be monitored and further investigations will be initiated in the event that the copper levels continue to rise above previous observed levels once the extractive area has progressed.
Mercury (Hg)	(mg/L)	0.0006	0.001	Meets standards	All groundwater monitoring bores were below the criteria for Mercury as well as below the analytical limit of reporting. This is consistent with historical data.
Nickel (Ni)	(mg/L)	0.011	0.02	MP8	Nickel was detected at all monitoring points in quarter 1 and MP8, MP10 and MP12 in quarter. MP8 was equal to the nominated criteria in quarter one but fell below in quarter 2. MP8 has been significantly higher then all other monitoring points since sampling began in 2014. A data gap does exist from quarter 2 2018 to quarter 1 2022 however results in both periods are consistently higher then other bores. MP8 consistently has heigntended levels of metals compared to other MP's onsite. It is likely that the natural compositon of the soil at this location contains more minerals or subsurface flows have had extended periods of time to dissolve minerals due to low hydraulic conductivity. Regardless of the influencing factors MP8 is not considered to be impacted by the operational area due to the current extent of the diturbed are and north east flow direction of the sub surface flows. These values will be continued to be monitored and further investigations will be initiated in the event that the nickel levels continue to rise above previous observed levels once the extractive area has progressed.
Lead (Pb)	(mg/L)	0.0034	0.01	MP8	Lead was detected at MP8, MP9 and MP10. Only MP8 was above the nominated crtieria. The amounts detected were

Parameters Analysed	Unit	ANZECC 2000 Trigger Values for Freshwater	NHMRC Drinking Water Guidelines	Monitoring Points not meeting standards	Reasoning / Actions Taken
					higher then historical values. A data gap does exist from quarter 2 2018 to quarter 1 2022 however results indicate an increase beyond historical records in this monitoring period. MP8 consistently has heigntended levels of metals compared to other MP's onsite. It is likely that the natural compositon of the soil at this location contains more minerals or subsurface flows have had extended periods of time to dissolve minerals due to low hydraulic conductivity. Regardless of the influencing factors MP8 is not considered to be impacted by the operational area due to the current extent of the diturbed are and north east flow direction of the sub surface flows. These values will be continued to be monitored and further investigations will be initiated in the event that lead levels continue to increase.
Zinc (Zn)	(mg/L)	0.008	3	MP8, MP9, MP10, and MP12	All sampling events and monitoring points resulted in an exceedance of the trigger values however are substantially below drinking water guidelines. Previous years have shown continued variation over all monitoring points with no obvious trends identifiable. Zinc levels will continue to be monitored.
Ground Water Depth					
Ground water depths at all monitoring points consistently fluctuate with no obvious trend noticeable during the reporting period or historical data suggesting impacts from quarrying activities, this is consistent with suggestions from the original environmental assessment which suggested that no significant ground water sources would be intersected. Depths appear to move consistently with seasonal variations. Ground water depths will continue to be monitored and further investigation will be conducted in the event levels vary from historical data upon recommencement of extractive operations.					

ANZECC Guidelines do not specify a trigger value for total chromium (Cr) due to insufficient data. This will be established as part of the baseline criteria.

6.0 REHABILITATION PERFORMANCE

The quarries Landscape Management Plan (v3.1) that details the approach for the management of site rehabilitation and biodiversity offsets throughout the sites life. The sites rehabilitation objectives are detailed in Table 18 below.

The ongoing rehabilitation strategy for the quarry is a progressive approach. Rehabilitation activities will commence in areas no longer required by the quarry, such as where excavation activities are complete and the area is not required for processing purposes. This approach will allow rehabilitation to occur alongside excavation activities, resulting in vegetation being established in different areas (cells) of the site as areas become available following completion of excavation. It is anticipated that at any one time up to 2 x 3 hectare extraction cells will be operational plus the Central Extraction Area processing area. The overall objective of the rehabilitation plan is to develop a relatively weed free, functional ecosystem that provides ecological services to maintain and enhance fauna populations.

There was no rehabilitation performed in 2023 as the project remains in care and maintenance in phase 1 of the critical pathway as defined in the Landscape Management Plan. As such rehabilitation has not been triggered to commence.

Table 18: Rehabilitation Objectives

Feature	Objective
Site (as a whole)	Safe, stable and non-polluting
Surface Infrastructure	To be decommissioned and removed, unless the Secretary agrees otherwise
Benched Quarry Walls	Landscaped with native endemic flora species
Quarry Pit Floors	Suitable for grazing
Other land affected by the Project	Restore ecosystem function, including maintaining or establishing self-sustaining eco-systems comprised of: • native endemic species; and • a landform consistent with the surrounding environment

7.0 BIODIVERSITY

The Biodiversity Offsets requirements are detailed in the Landscape Management Plan, with the location of the offset areas provided in Figure 2 in Appendix A.

In accordance with Condition 46(3), Richmond Quarry submitted a revised calculation and documentation for the Conservation and Rehabilitation Bond to the DPI&E for approval on the 6th of December 2022 suggesting the current bond was sufficient considering the site remains in care and maintenance. The Department of Planning and Environment reviewed the submission and responsded with a request for information. Richmond Quarry responded to this request for information on the 9th of January 2023 with a revised calculation using the updated RCE calculator. DPE confirmed on the 16th of March a detailed assessment of the calculation had begun. Richmond Quarry has not received a response from DPE.

8.0 COMMUNITY

8.1 COMMUNITY CONSULTATIVE COMMITTEE

Due to the suspension of quarrying operations on 22 May 2019 the Richmond Quarry did not hold a committee meeting during 2023. Richmond Quarry distributed a community letter to all residents within a 2km radius of the quarry updating the residents on the quarry suspension and the associated ongoing movement of materials from existing stockpiles in 2019. A copy of community letter is shown in Appendix G.

Richmond Quarry was required as a result of the 2022 Independent Environmental Audit, that confirmation from the DPE is obtained confirming the temporary suspension of CCC is appropriate considering the site remains in care and maintenance. DPE confirmed on the 31st of January that the suspension is satisfactory with the condition that a letter is circulated to community members and that CCC must recommence upon recommence of operations. A copy of the letter to be circulated is in Appendix H. No community contributions were made during 2022.

8.2 COMPLAINTS REGISTER

Richmond Quarry maintains a complaints register that is publicly available on the Richmond Quarry website. During 2023, there were no complaints made to the quarry.

9.0 INDEPENDENT ENVIRONMENTAL AUDIT

As per Project Approval 09_0080 an IEA was due to be conducted in 2021 as this marks 3 years since the previous IEA. Richmond Quarry was granted an extension on the IEA to September 2022 by the Department. The Audit was completed by GHD and submitted to DPE with in the required time frame.

The *Independent Environmental Audit Report, September 2022* and *Response to Recommendations* are available on the Richmond Quarry website. Appendix C addresses progress of the Response to Audit Recommendations from the 2022 Audit. Several findings from the 2022 IEA are on hold due to the site still being in care and maintenance as it has been since May 2019. Company management are in the process of determining the future plans for the quarry in the longer term.

10.0 STATEMENT OF COMPLIANCE

Table 19: Statement of Compliance

Were all conditions of the relevant approval complied with?	
Part 3A Project Approval 09_0080	No

11.0 NON COMPLIANCE

There was four minor non compliances in the reporting period. These non compliances are summarised in table 21 below and addressed under the corresponding sections of this Annual Review.

Table 20: Non Compliance Summary

Relevant Approval	Condition #	Condition Description (summary)	Compliance status	Comment	Where addressed in Annual Review
MP 09_0080	Schedule 3, Condition 12.	Air quality management plan requires sampling every 30 days +/- 2 days.	Non-compliant	Sampling was not complete d from 10th August onwards.	Section 5.2 and table 10.
	Schedule 3, Condition 17.	Quarterly surface and groundwater monitoring as per water management plan.	Non-compliant	Quarterly surface water and ground water monitoring was only completed in the first two quarters.	Section 5.4.5 and 5.4.6
	Schedule 3, Condition 17.	Monitoring of MP7 required to be monitored on a weekly basis.	Non-compliant	Weekly monitoring of MP7 was not conducted from September onwards.	Section 5.4.5

Compliance status key for above table

Risk Level	Colour Code	Description
High	Non-compliant	Non-compliance with potential for significant environmental consequences, regardless of the likelihood of occurrence
Medium	Non-compliant	Non-compliance with: • potential for serious environmental consequences, but is unlikely to occur; or • potential for moderate environmental consequences, but is likely to occur
Low	Non-compliant	Non-compliance with: • potential for moderate environmental consequences, but is unlikely to occur; or • potential for low environmental consequences, but is likely to occur.
Administrative non-compliance	Non-compliant	Only to be applied where the non-compliance does not result in any risk of environmental harm (e.g. submitting a report to government later than required under approval conditions)

12.0 TRUCK MOVEMENTS

Condition 9, Schedule 2 restricts the number of daily truck movements to 50 and only permits 5 truck movements to occur in any one hour.

Hourly Truck Movements

During 2023 there were zero instances where there were more than 5 truck movements within 1 hour during the reporting period.

Daily Truck Movements

During 2023 there were zero instances when more than 50 trucks were dispatched in a day.

13.0 OPERATING HOURS

During the reporting period, there was zero non-compliances in the permitted operating hours of the site.

14.0 TRANSPORT MONITORING

Condition 30A, Schedule 3 requires records to be maintained for the time of dispatch, weight of load and vehicle identification of each laden truck dispatched from the Quarry. Overall; there were zero truck dispatches from the site during the reporting period. There was zero non-compliance in regard to Condition 30A, Schedule 3 in 2023.

APPENDIX A – MAPPING

Figure 1: Richmond Quarry – Regional Location

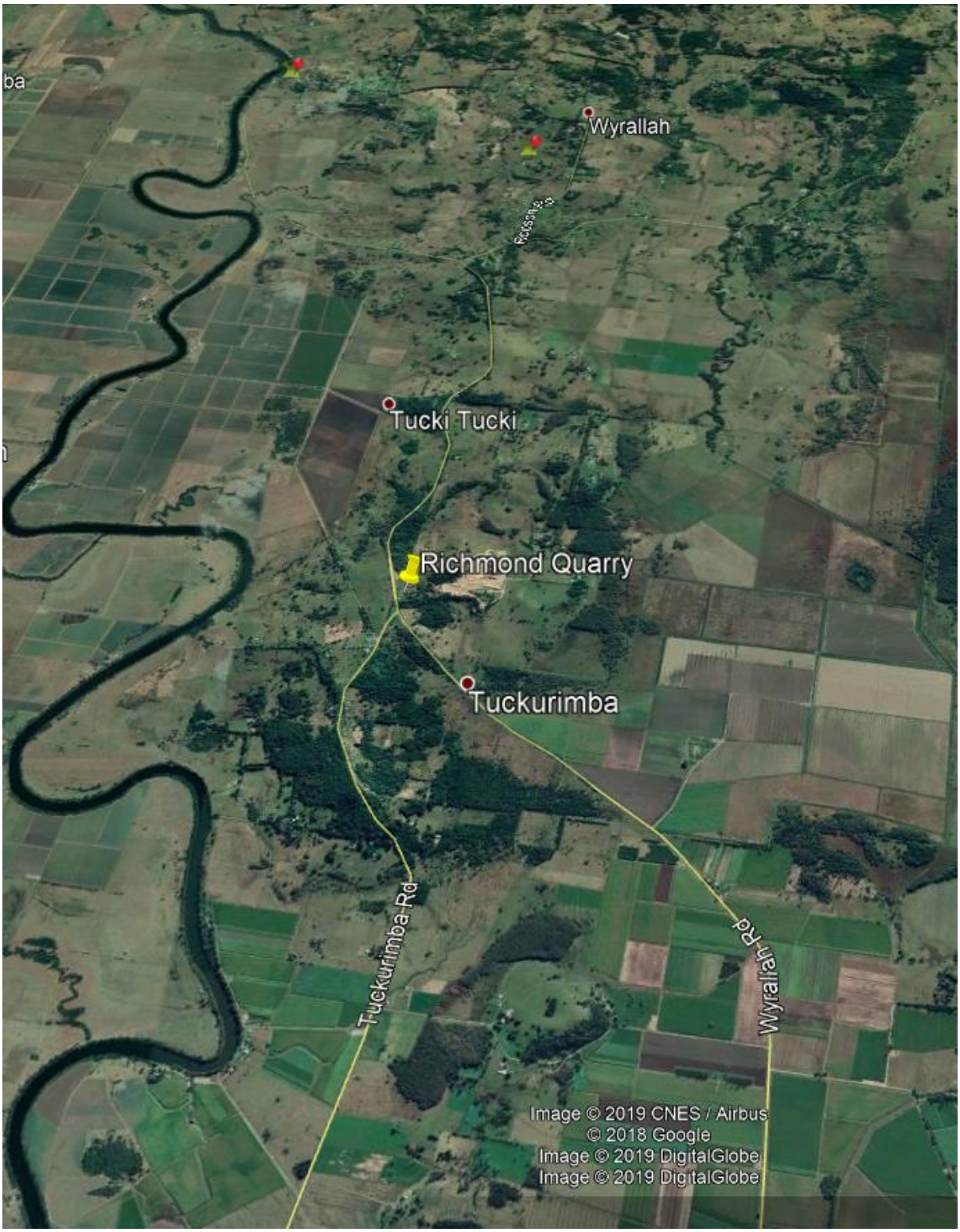

Figure 2: Project Layout (extract from Appendix 6 of Project Approval 09_0080)

Figure 3: Disturbance Footprint 2019

Figure 4: Environmental Monitoring Locations

APPENDIX B – SITE PRODUCTION DATA

Production Data NIL Return for the 2022/2023 Financial Year

Extractive Materials Return 2022-2023

NSW GOVERNMENT | Regional NSW

Form S1 – Period Ending 30 June 2023

Quote RIMS ID in all correspondence

Quarry Id: Rims ID: 400494 Operators Name: YANSEA OPERATIONS PTY LTD Address: 13 NUBAN STREET CURRUMBIN WATERS QLD 4223 Email: compliance@solo.com.au Quarry Name: RICHMOND QUARRY Quarry Address: 1586 WYRALLAH RD, TUCKURIMBA NSW 2480	**Inquiries** please telephone: (02) 4063 6713 **Completed or Nil Returns** Email – mineral.royalty@regional.nsw.gov.au Postal Address (see below) ***Please amend name, postal address and location of mine or quarry if incorrect or incomplete.***

The return should be completed and forwarded to **Senior Advisory Officer, RESOURCE ECONOMICS, STRATEGY, PERFORMANCE & INDUSTRY DEVELOPMENT, DEPARTMENT OF REGIONAL NSW, PO BOX 344 HUNTER REGION MAIL CENTRE NSW 2310 on or before 31 October 2023**. If completion of the return is unavoidably delayed, an application for extension of time should be requested **before** the due date. If no work was done during the year, a **NIL** return must be forwarded.

The return should relate to the **above quarrying establishment** and should cover the operations of quarrying and treatment (such as crushing, screening, washing etc.) carried out at or near the quarry. A return is required even if the operations are solely of a developmental nature and whether the area being worked is held under a mining title or otherwise.

Director, Performance

Please complete all the following information to assist in identifying the location of the Quarry

Typical Geology: Sandstone

Nearest Town to Quarry: Lismore

Local Council Name: Lismore City Council

Deposited Plan and Lot Number/s of Quarry: Lot 5 DP 1191905

Email Address of Operator: compliance@solo.com.au

Name of Owner or Licensee: YANSEA OPERATIONS PTY LTD

Postal Address of Licensee: 13 NUBAN STREET CURRUMBIN WATERS QLD 4223

Licence/Lease Number/s (if any)
From Mining, Exploration & Geoscience (NSW Mineral Resources): N/A
From Crown Lands or other NSW Department: N/A

If any output was obtained from land NOT held under licence from the above Departments, state the Name/s and Address/es of the Owners of the land: _____

To the best of my knowledge, information entered in this return is correct and no blank spaces left where figures should have been inserted.

- **SIGNATURE of PROPRIETOR or MANAGER** _____ **DATE** 16.4.25
- **CONTACT PERSON for this return** _____
- **NAME** (Block letters) _____ **Telephone** _____

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Extractive Materials Return 2022-2023

NSW GOVERNMENT | Regional NSW

Form S1 – Period Ending 30 June 2023

Sales During 2022-2023
Production information may be published in aggregated form for statistical reporting. However, production data for individual operations is kept strictly confidential.

Product	Description	Quantity Tonnes
Virgin Materials		
Crushed Coarse Aggregates		
Over 75mm		
Over 30mm to 75mm		
5mm to 30mm		
Under 5mm		
Natural Sand		
Manufactured Sand		
Prepared Road Base & Sub Base		
Other Unprocessed Materials		
Recycled Materials		
Crushed Coarse Aggregates		
Over 75mm		
Over 30mm to 75mm		
5mm to 30mm		
Under 5mm		
Natural Sand		
Manufactured Sand		
Prepared Road Base & Sub Base		
Other Unprocessed Materials		
River Gravel		
Over 30mm		
5mm to 30mm		
Under 5mm		
Construction Sand	Excluding Industrial	
Industrial Sand		
Foundry, Moulding		
Glass		
Other (Specify)		
Dimension Stone	Building, Ornamental, Monumental	
Quarried in Blocks		
Quarried in Slabs		
Decorative Aggregate	Including Terrazzo	
Loam	Soil for Topdressing, Garden soil, Horticultural purposes)	
TOTAL SITE PRODUCTION		
Gross Value ($) of all Sales		NIL
Type of Material		NIL
Number of Full-Time Equivalent (FTE) Employees	**Employees** NIL	**Contractors** NIL

Please Note: A return for clay-based products can be obtained by contacting the inquiry number.

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APPENDIX C – INDEPENDENT ENVIRONMENTAL AUDIT

Response to 2022 Independent Environmental Audit Findings

Uncompleted Tasks

Finding Type	Condition / Reference	Finding Description / Corrective Action	Response / Action	Time Frame
CAR 1	Project Approval, Condition 14, Schedule 2	Confirm the demountable building and shed have been constructed in accordance with the BCA and obtain construction and occupation certificates.	Richmond Quarry engaged a Building Certifier in 2019. Works were not finalised due to entering care and maintenance. Richmond Quarry is currently in the process of re-opening and will subsequently address this action as required.	Original proposed Completion 31st December 2022. New proposed completion Within three months of operations re-commencing. Commencement date yet to be confirmed.

Finding Type	Condition / Reference	Finding Description / Corrective Action	Response / Action	Time Frame
CAR 6	Project Approval, Condition 6, Schedule 5	Obtain approval from the Secretary approving the suspension of the CCC while the quarry has suspended operations.	<u>Original response action</u> 1. Confirm with the Secretary that ceasing CCC was communicated at the time of entering care and maintenance. 2. Plan to hold CCC meeting again once operational to introduce new proponent to relevant stakeholders. <u>Updated response action</u> Submission through major projects portal on 13/12/2022. Ref#(MP09_0080-PA-26). Awaiting DPE response. <u>January 2023 Update</u> No response to MP09_0080-PA-26 received from DPE as of 20/01/2022 other then receipt of letter and reasoning. <u>Feb/Mar 2023 Update</u> Letter received from DPE 31st of January 2023 confirming CCC suspension is appropriate as the site is not operational. Letter to be sent to members of CCC.	Original proposed completion - 31st November 2022 In Progress – Remaining Members being Identified.

Finding Type	Condition / Reference	Finding Description / Corrective Action	Response / Action	Time Frame
R1	Air Quality Management Plan	Revise the Air Quality Management Plan to include the new dust monitoring location. It is also recommended to include a figure showing the monitoring location.	Update Air Quality Management Plan to include new dust monitoring location and address RFI requested by DPE on the 18th of March 2019.	Original proposed completion 31st December 2022 New proposed completion Within three months of operations re-commencing. Commencement date yet to be confirmed.
R4	Landscape Management Plan	Undertake the monitoring and reporting outlined in the Landscape Management Plan to monitor the success of the rehabilitation and identify where remedial action is necessary.	Develop a monitoring checklist/program with photo evidence to monitor the success of the rehabilitation and biodiversity offset strategy identify where remedial action is necessary as per section 11.1 of the approved landscape management plan.	31st December 2022 IN PROGRESS

Finding Type	Condition / Reference	Finding Description / Corrective Action	Response / Action	Time Frame
R7	Transport Management Plan	Prior to recommencing operations, maintain the haulage roads.	Conduct care and maintenance to fix scouring on haulage road. Monitor sealed road for any continued subsidence and rectify as required.	Original proposed Completion 31st December 2022. New proposed completion Prior to operations re-commencing. Commencement date yet to be confirmed.

Finding Type	Condition / Reference	Finding Description / Corrective Action	Response / Action	Time Frame
R8	Water Management Plan	Review the Water Management Plan sediment basin calculations to ensure they are in accordance with Managing Urban Stormwater Soils and Construction – Volume 2e Mines and quarries (DECC, 2008) and EPL. It is also recommended the calculations be done for individual stages.	Review the Water Management Plan sediment basin calculations to ensure are designed, installed and maintained in accordance with Managing Urban Stormwater Soils and Construction – Volume 2e Mines and quarries (DECC, 2008) and EPL. Calculations to consider progression plans for the site.	Original Completion - 31st December 2022 Proposed Completion – 31st January Prior to recommencement of operations

Finding Type	Condition / Reference	Finding Description / Corrective Action	Response / Action	Time Frame
R10	Water Management Plan	Develop and implement a procedure to record that sediment basins are monitored and maintained appropriately.	Update Section 4.0 of IMS-ENVM-D-3743-RQ - Environmental Monitoring Procedure to include sediment trap monitoring. Update IMS-ENVM-F-3746-RQ - MP7 pH Surface Water Field Sheet - Richmond Quarry to include sediment trap monitoring column. This is captured in the excel format but not the PDF document. Note that staff are currently using the excel spreadsheet format and monitoring sediment basins.	Original completion 31st October 2022 New proposed completion Prior to operations re-commencing. Commencement date yet to be confirmed.

Finding Type	Condition / Reference	Finding Description / Corrective Action	Response / Action	Time Frame
R11	Water Management Plan	It is recommended that a fence be place around the outside of the wash plant basins to prevent fauna from being trapped or an escape route be provided.	Re-design sediment basins for sand plant taking into consideration fauna. Note that Richmond Quarry has had no reported incidents of trapped fauna since the construction of the basins.	31st March 2023 New proposed completion With-in 3 months of operations re-commencing. Commencement date yet to be confirmed.

Finding Type	Condition / Reference	Finding Description / Corrective Action	Response / Action	Time Frame
R13	Project Approval, Condition 13, Schedule 3	Revise the Water Management Plan to update the water budget with consideration that the proposed Water Supply Dam is no longer an option.	Original response action Water budget will be considered as part of the current water management plan review. The water re-use dam has sustained the sites water requirements since its construction. Updated response action The current water management review is to be withdrawn as access to all monitoring points has been re-instated. Water balance will be reviewed upon re-commencement of operation. The current water balance takes into consideration sand washing which will not be undertaken in early stage of operations. Operations will gradually scale up. The current water re-use dam will be sufficient for early stages of operations.	Original Completion - 31st December 2022 Proposed Completion Within 6 months of operations commencing.

Finding Type	Condition / Reference	Finding Description / Corrective Action	Response / Action	Time Frame
R14	Project Approval, Condition 14A, Schedule 3	Prior to operation recommencing, maintain or redesign the basins, so they provide the required storage and are effective.	Original response action Undertake care and maintenance to re instate freeboard in all sediment traps. Updated response action Condition 14A, Schedule 3 only relates to sediment traps for sand plant which is not proposed to be operational in early stages of operations. These sediment traps serve no purpose to broader water management on site.	Original Completion 31st October 2022. Proposed Completion . Prior to sand plant operation.

Completed Tasks

Finding Type	Condition / Reference	Finding Description / Corrective Action	Response / Action	Time Frame
CAR 2	Project Approval, Condition 3, Schedule 3	Obtain confirmation that Bunds A and D are to the satisfaction of the Secretary.	Original response action Richmond Quarry is currently seeking to commence works in the Southern Extraction Area. Response to DPE RFI relating to Condition 19, Schedule 3 was uploaded through the Major Projects Portal on the 28/09/2022. Condition 3, Schedule 3 will be reviewed as part of this request. Updated response action 14/10/2022 Letter from DPE "Champions Quarry (MP09_0080) RQ Bund and Screening"	COMPLETE
CAR 3	Project Approval, Condition 19, Schedule 3	Obtain confirmation from the Secretary that they are satisfied with the works required by Condition 19, Schedule 3.	Original response action Richmond Quarry is currently seeking to commence works in the Southern Extraction Area. Response to DPE RFI relating to this condition was uploaded through the Major Projects Portal on the 28/09/2022 Updated response action 14/10/2022 Letter from DPE "Champions Quarry (MP09_0080) RQ Bund and Screening"	COMPLETE

Finding Type	Condition / Reference	Finding Description / Corrective Action	Response / Action	Time Frame
CAR 4	Project Approval, Condition 4, Schedule 5	Submit the Annual Review by the end of March each year and include all of the requirements of Condition 4, Schedule 5.	Annual Reviews with in the audit period have been submitted on time. The 2022 annual review is scheduled to be completed on time as required and include all necessary information as required by *Annual Review Guidelines (NSW Government, 2015)*	COMPLETE
CAR 5	Project Approval, Condition 5, Schedule 5	Review management plans as required by Condition 5, Schedule 5 and submit to the Secretary within the specified timeframes.	Richmond Quarry is currently seeking to re-commence operations and will review the documentation in collaboration with the proposed new proponent to ensure compliance across all management plans.	COMPLETE
CAR 7	EPL, L1.2	Do not release water until it meets the concentration limits in L2.4 of the EPL.	Communicate licence conditions and associated monitoring procedures and forms to the Mine Manager and other relevant staff by ways of document transmittal record. 6/10/2022 - Document Transmittal Record	COMPLETE

Finding Type	Condition / Reference	Finding Description / Corrective Action	Response / Action	Time Frame
CAR 8	EPL, O4.4	Discharge the Water Reuse Dam within 5 days of a rainfall event to restore the capacity to below the upper level of the sediment storage zone.	Communicate licence conditions and associate monitoring procedures and forms to the Mine Manager and other relevant staff by ways of document transmittal record. 6/10/2022 - Document Transmittal Record	COMPLETE
R2	Air Quality Management Plan	If operations do not recommence within the next three months, it is recommended controls are implemented to stabilise the disturbed area	<u>Original response action</u> Re-commence operation within the next three months. <u>Updated response action</u> Richmond Quarry does not believe stabilisation is necessary at this time considering the site is still preparing to exit care and maintenance. Air quality has remained within proposed limits since entering care and maintenance in 2019 apart from 2 occasions where minor breaches of limits were recorded.	COMPLETE

Finding Type	Condition / Reference	Finding Description / Corrective Action	Response / Action	Time Frame
R3	Landscape Management Plan	Update the Landscape Management Plan to clarify what is required in regard to rehabilitation.	Original response action Review Landscape Management Plan rehabilitation requirements. Updated response / action Richmond Quarry has reviewed the landscape management plan and believes the current explanation of rehabilitation is sufficient. There has been no rehabilitation because stage 1 of the project pathway has not been completed due to slow progression.	COMPLETE

Finding Type	Condition / Reference	Finding Description / Corrective Action	Response / Action	Time Frame
R5	Noise Management Plan	Revise the Noise Management Plan to include the new noise monitoring location. It is also recommended to include a figure showing the monitoring location.	Original response action There have been several changes of ownership in surrounding land since entering care and maintenance at which time noise monitoring was suspended. Richmond Quarry will undertake an investigation to determine if the proposed changed monitoring locations are still required. If not, the current noise management plan will be followed. Updated response action Land access review complete. Noise monitoring can be done in accordance with the current approved Noise Management Plan. Richmond Quarry proposes the current Noise Management Plan is fit for purpose. Email will be sent to DPE by 31st December once all management plans have been reviewed in accordance with Schedule 5 Condition 5	COMPLETE

Finding Type	Condition / Reference	Finding Description / Corrective Action	Response / Action	Time Frame
R6	Transport Management Plan	Consult with TfNSW during the review of the Transport Management Plan.	Original response action Richmond Quarry has reviewed the Traffic Management Plan and suggests it meets the requirements set by TfNSW. Changes to the Transport Management Plan have only been the transition of company name. If any operational changes occur TfNSW will be consulted. Updated response action Review Complete. Richmond Quarry proposes the Transport Management Plan is fit for purpose. Email will be sent to DPE by 31st December once all management plans have been reviewed in accordance with Schedule 5 Condition 5	COMPLETE

Finding Type	Condition / Reference	Finding Description / Corrective Action	Response / Action	Time Frame
R9	Water Management Plan	Review the Water Management Plan monitoring program so it reflects what is occurring due to access restrictions to some sites. It is also recommended an upstream site be included and site-specific criteria for surface water and groundwater established in consultation with DPE and EPA.	<u>Original response action</u> Access to lot 2 has been reinstated. Monitoring can recommence as required by the current approved water management plan at the next scheduled monitoring round. Richmond Quarry is currently progressing through and RFI from DPE Water and will consider the addition of upstream monitoring points as part of this process. Surface Water MP1 is considered up stream. Preliminary investigation suggest groundwater MP9 may also be upstream of ground water flows. <u>Updated response action</u> Access to lot 2 has been reinstated. Monitoring is being conducted as required by the current approved water management plan. Richmond Quarry will continue to compare results to guidelines rather than site specific triggers. A review of available tests conducted and reporting has been conducted by Richmond Quarry to determine if MP1 and MP9 are considered up stream already. MP1(SW1) is upstream as per orginal envonmental assessment. MP9(BH5) is upstream based on orginial environmental assessment noting subsurface flow likely flow from east to	COMPLETE

Finding Type	Condition / Reference	Finding Description / Corrective Action	Response / Action	Time Frame
R12	Project Approval, Condition 3, Schedule 3	Survey Bund A, D and E to ensure they meet the required dimensions.	Richmond Quarry is currently seeking to commence works in the Southern Extraction Area. Response to DPE RFI relating to Condition 19, Schedule 3 was uploaded through the Major Projects Portal on the 28/09/2022. Condition 3, Schedule 3 will be reviewed as part of this request. Updated response action 14/10/2022 Letter from DPE "Champions Quarry (MP09_0080) RQ Bund and Screening"	COMPLETE
R15	Project Approval, Condition 26, Schedule 3	Keep records of the invoices and receipts issued by Council in relation to contribution payments.	Ensure receipts and invoice from LCC are sent from accounts to compliance for maintenance of records. Communicate requirement with accounts team.	COMPLETE

Finding Type	Condition / Reference	Finding Description / Corrective Action	Response / Action	Time Frame
R16	Project Approval, Condition 39, Schedule 3	It is recommended Koala feed trees are not used in the visual screen plantings along the northern boundary and the Landscape Management Plan be updated accordingly.	Vegetative screening North of the access road has already been completed. Non-koala trees have been utilised. Section 6.2 of the current Landscape Management Plan already states this requirement. Request for the Secretaries endorsement was submitted through the major project's portal on the 28th of September 2022. <u>Updated response action</u> 14/10/2022 Letter from DPE "Champions Quarry (MP09_0080) RQ Bund and Screening"	COMPLETE
R17	Project Approval, Condition 10, Schedule 5	Maintain records of when documents are submitted to demonstrate compliance.	Improve document management where applicable. Some documentation was not provided by the previous proponent during change of operators. Consequently, Richmond Quarry cannot address all existing issues with document control	COMPLETE

Finding Type	Condition / Reference	Finding Description / Corrective Action	Response / Action	Time Frame
R18	EPL, M2.1. M2.2, M2.3	Consult with EPA to make the oil and grease sampling requirements for oil and grease in the EPL consistent.	1. Cease grab sample testing of grease and oil. Sampler only to undertake visual inspection as per *IMS-ENVM-F-3748-RQ - Water Reuse Dam Discharge Sheet - Richmond Quarry*. 2. Consult with EPA to rectify sampling technique contradiction in EPL.	31st December 2022 Emailed EPA 27/10/2022 Raised during EPA site inspection 8/11/2022. Awaiting EPA response 14/12/2022. EPA responded licence to be varied by EPA in New Year 2023. COMPLETE. EPA confirmed via email that it is a clerical error on EPA behalf. EPA have suggested a variation

APPENDIX D – WATER MONITORING TABLES

Table 1: Surface Water Quality Monitoring Results 2023

ANZECC 2000 Trigger Values[1]		6.5-8.5[2]	0.350 (dS/m)	0.7 (mg/L)	0.055 (mg/L)	0.024 (mg/L)	0.0002 (mg/L)	n/s (mg/L)	0.0014 (mg/L)	0.0006 (mg/L)	0.011 (mg/L)	No visible sheen or detectable odour	50 (mg/L)[3]	0.0034 (mg/L)	0.008 (mg/L)
Monitoring Point	**Date**	**pH**	**Conductivity**	**Nitrate (NO_3)**	**Aluminium (Al)**	**Total Arsenic (As)**	**Cadmium (Cd)**	**Total Chromium (Cr)**	**Copper (Cu)**	**Mercury (Hg)**	**Nickel (Ni)**	**Oil & Grease**	**Total Suspended Solids**	**Lead (Pb)**	**Zinc (Zn)**
MP1	17/03/2023	7.04	0.138	0.028	***0.329***	<0.001	<0.0001	<0.001	<0.001	<0.0005	<0.001	None	8	<0.001	0.002
	20/06/2023	7.23	0.128	0.026	***0.867***	<0.001	<0.0001	<0.001	<0.001	<0.0005	<0.001	None	9	<0.001	0.003
MP2	17/03/2023	7.08	0.138	0.026	***0.273***	<0.001	<0.0001	<0.001	<0.001	<0.0005	<0.001	None	10	<0.001	0.002
	20/06/2023	7.2	0.125	0.027	***0.846***	<0.001	<0.0001	<0.001	<0.001	<0.0005	<0.001	None	6	<0.001	0.004
MP5	17/03/2023	7.22	0.066	<0.005	***0.067***	<0.001	<0.0001	<0.001	<0.001	<0.0005	<0.001	None	3	<0.001	0.007
	20/06/2023	*6.67*	0.057	<0.005	**0.133**	<0.001	<0.0001	<0.001	<0.001	<0.0005	<0.001	None	***2***	<0.001	0.002

1 Initially data will be compared against ANZECC Trigger Values with the aim to develop site specific trigger levels once a large enough baseline data set is available.
2 It is noted that the pH of nearby soil and receiving waters are mildly acidic pH4.5-pH5.3. Site specific pH trigger levels to be established once a large enough baseline data set is available.
3 ANZECC Guidelines do not specify a trigger value for total chromium (Cr) due to insufficient data. This will be established as part of the baseline criteria for the site.
4 EPL 20562 maximum level once the stormwater management system is constructed and operational. Exceedance permitted at overflow point for duration of overflow when wet weather overflow is occurring due to stormwater events ≥ 60.2mm in total falling over any consecutive 5 day period.
5 Data in bold indicates the data is outside the trigger levels.

Table 2: Water Reuse Dam (MP7) – pH Results 2023

Date	pH	Comments
6/01/2023	6.75	
13/01/2023	6.72	
20/01/2023	6.93	
27/01/2023	6.82	
3/02/2023	6.75	
10/02/2023	6.70	
17/02/2023	6.68	
24/02/2023	6.65	
3/03/2023	6.72	
10/03/2023	7.30	
17/03/2023	7.38	
24/03/2023	7.29	
31/03/2023	6.94	
7/04/2023	6.84	
14/04/2023	6.79	
21/04/2023	6.75	
28/04/2023	6.81	
5/05/2023	6.90	
12/05/2023	6.84	
19/05/2023	6.79	
26/05/2023	6.74	
2/06/2023	6.70	
9/06/2023	6.62	
16/06/2023	6.59	

23/06/2023	6.64	
30/06/2023	6.67	
7/07/2023	6.91	
14/07/2023	7.12	
21/07/2023	7.24	
28/07/2023	7.18	
4/08/2023	7.02	
11/08/2023	6.98	
18/08/2023	6.94	
25/08/2023	6.87	
1/09/2023	No Sample	Stopped sampling
8/09/2023	No Sample	
15/09/2023	No Sample	
22/09/2023	No Sample	
29/09/2023	No Sample	
6/10/2023	No Sample	
13/10/2023	No Sample	
20/10/2023	No Sample	
27/10/2023	No Sample	
3/11/2023	No Sample	
10/11/2023	No Sample	
17/11/2023	No Sample	
24/11/2023	No Sample	
1/12/2023	No Sample	
8/12/2023	No Sample	
15/12/2023	No Sample	

22/12/2023	No Sample	
29/12/2023	No Sample	

able 3: Groundwater Quality Monitoring Results 2023

ANZECC 2000 Trigger Values[1]		6.5 - 8.5 3	0.35	0.7	0.055	0.024	0.0002	n/s	0.0014	0.0006	0.011	0.0034	0.008
NHMRC Drinking Water Guidelines[2]		6.5 - 8.5 3	n/s	50	0.2	0.01	0.002	0.05	2	0.001	0.02	0.01	3
Monitoring Point	Date	pH	Conductivity (dS/m)	Nitrate (NO3) (mg/L)	Aluminium (Al) (mg/L)	Total Arsenic (As) (mg/L)	Cadmium (Cd) (mg/L)	Total Chromium (Cr) (mg/L)	Copper (Cu) (mg/L)	Mercury (Hg) (mg/L)	Nickel (Ni) (mg/L)	Lead (Pb) (mg/L)	Zinc (Zn) (mg/L)
MP8	17/03/2023	***3.70***	**0.694**	<0.005	**0.117**	<0.001	<0.0001	<0.001	**0.211**	<0.0005	**0.011**	***0.018***	**0.199**
	20/06/2023	***3.65***	**0.446**	<0.005	***0.252***	<0.001	<0.0001	<0.001	**0.232**	<0.0005	0.01	***0.015***	**0.143**
MP9	17/03/2023	***5.43***	0.3	<0.005	0.015	<0.001	<0.0001	<0.001	**0.017**	<0.0005	0.001	0.001	**0.037**
	20/06/2023	***5.30***	0.271	<0.005	0.019	<0.001	<0.0001	<0.001	**0.022**	<0.0005	<0.001	<0.001	**0.029**
MP10	17/03/2023	***4.90***	0.1	0.011	**0.093**	<0.001	<0.0001	<0.001	**0.022**	<0.0005	0.002	0.002	**0.076**
	20/06/2023	***4.45***	0.099	<0.005	**0.095**	<0.001	<0.0001	<0.001	**0.03**	<0.0005	0.003	0.003	**0.092**
MP12	17/03/2023	***6.01***	0.115	0.164	0.025	<0.001	<0.0001	<0.001	**0.004**	<0.0005	0.002	<0.001	**0.067**
	20/06/2023	***5.59***	0.104	0.18	0.013	<0.001	<0.0001	<0.001	**0.003**	<0.0005	0.002	<0.001	**0.092**

1 Initially data will be compared against ANZECC Trigger Values with the aim to develop site specific trigger levels once a large enough baseline data set is available.
2 Initially data will be compared against NHMRC Drinking Water Guidelines with the aim to develop site specific trigger levels once a large enough baseline data set is available.
3 It is noted that the pH of nearby soil and receiving waters are mildly acidic pH4.5-pH5.3. Site specific pH trigger levels to be established once a large enough baseline data set is available.
4 ANZECC Guidelines do not specify a trigger value for total chromium (Cr) due to insufficient data. This will be established as part of the baseline criteria for the site.
5 Data in **bold** indicates the data is outside the trigger levels.

Table 4: Groundwater Depth Results 2023 – Meters Below Top of Peizo

Monitoring Point	Date	Depth (m)
MP8	17/03/2023	14.74
	20/06/2023	16.52
MP9	17/03/2023	13.69
	20/06/2023	15.3
MP10	17/03/2023	8.2
	20/06/2023	9.5
MP12	17/03/2023	6.59
	20/06/2023	6.74

APPENDIX E – SITE PHOTOGRAPHS OF BUNDS AND SCREENING AREAS

BUND A

View of Bund A from the eastern end, trees planted to the north of the Bund and a single row of non-koala habitat trees on the south-western side of the Bund. Photo March 2021.

BUND B

Bund B – Low earth mound 10 metres wide. Established and grassed and planted with 2 rows of non-koala habitat trees/shrubs. Photo March 2021.

BUND C

Earth bund surrounding the Sand Washing Plant approx. 15 metres wide. Photo March 2020.

BUND D

10 metre wide bund. Established and grassed. Photo March 2021.

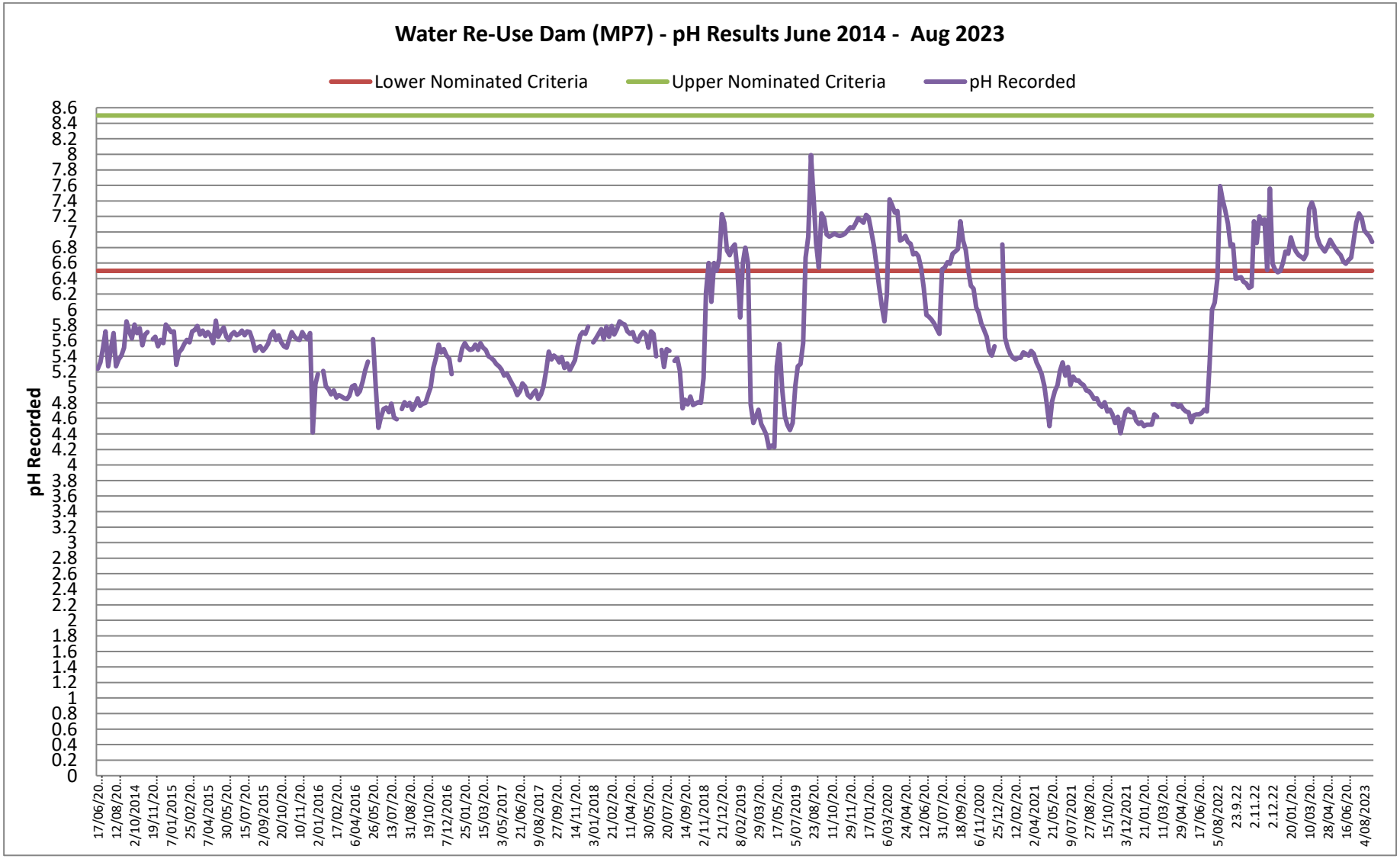
BUND E

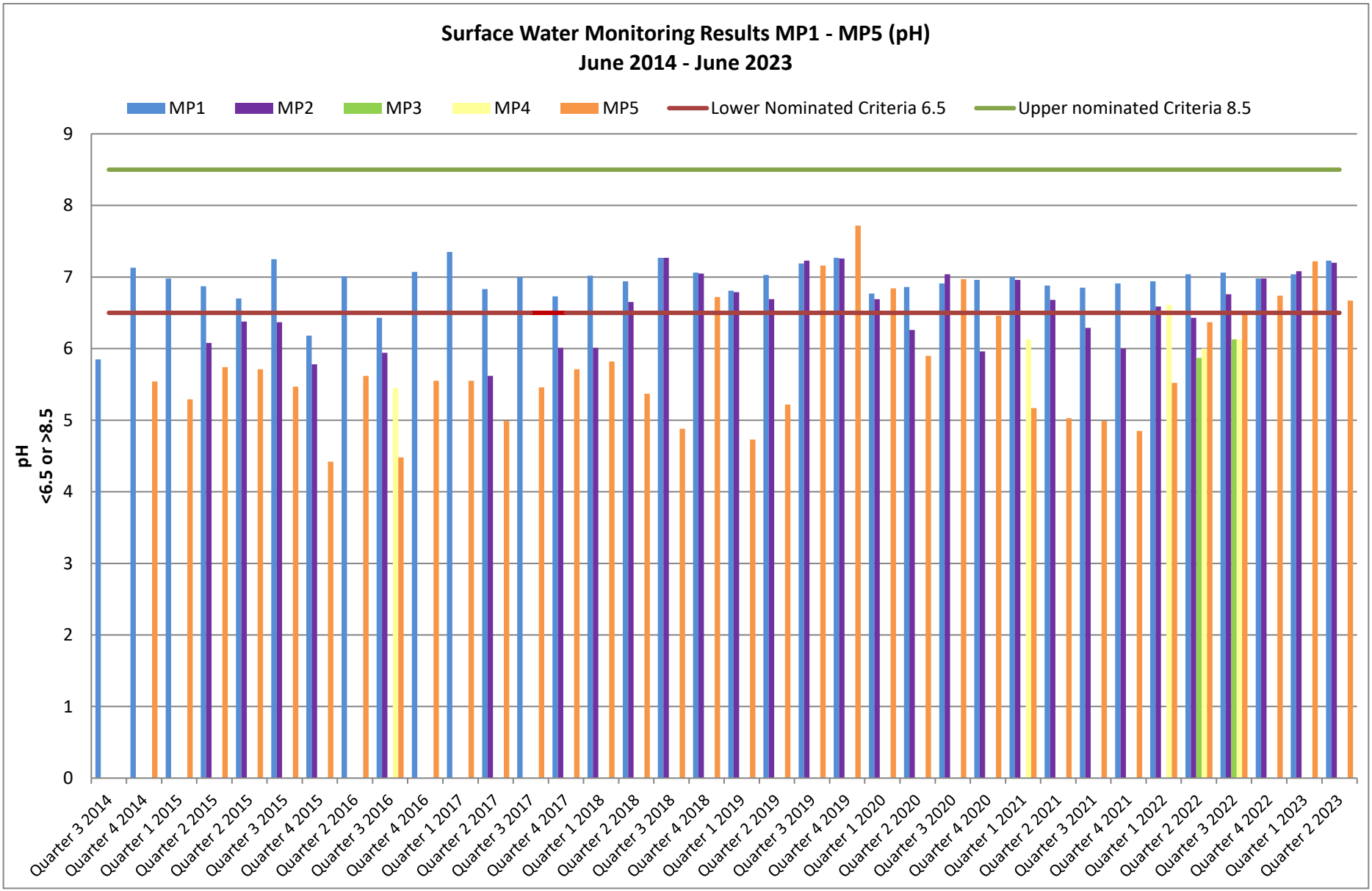
Low sacrificial bund 10 metres wide. Established and grassed. Photo March 2021.

AREA TO THE NORTH OF THE MAIN ACCESS ROAD

Established, grassed and planted with 2 rows of non-koala habitat trees/shrubs. Photo March 2021.

APPENDIX F – ENVIRONMENTAL MONITORING GRAPHS




Surface Water Monitoring Results MP1 - MP5 (pH)
June 2014 - June 2023
MP1
MP2
MP3
MP4
MP5
Lower Nominated Criteria 6.5
Upper nominated Criteria 8.5
pH
<6.5 or >8.5
0
1
2
3
4
5
6
7
8
9
Quarter 3 2014
Quarter 4 2014
Quarter 1 2015
Quarter 2 2015
Quarter 2 2015
Quarter 3 2015
Quarter 4 2015
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Quarter 4 2020
Quarter 1 2021
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Quarter 4 2021
Quarter 1 2022
Quarter 2 2022
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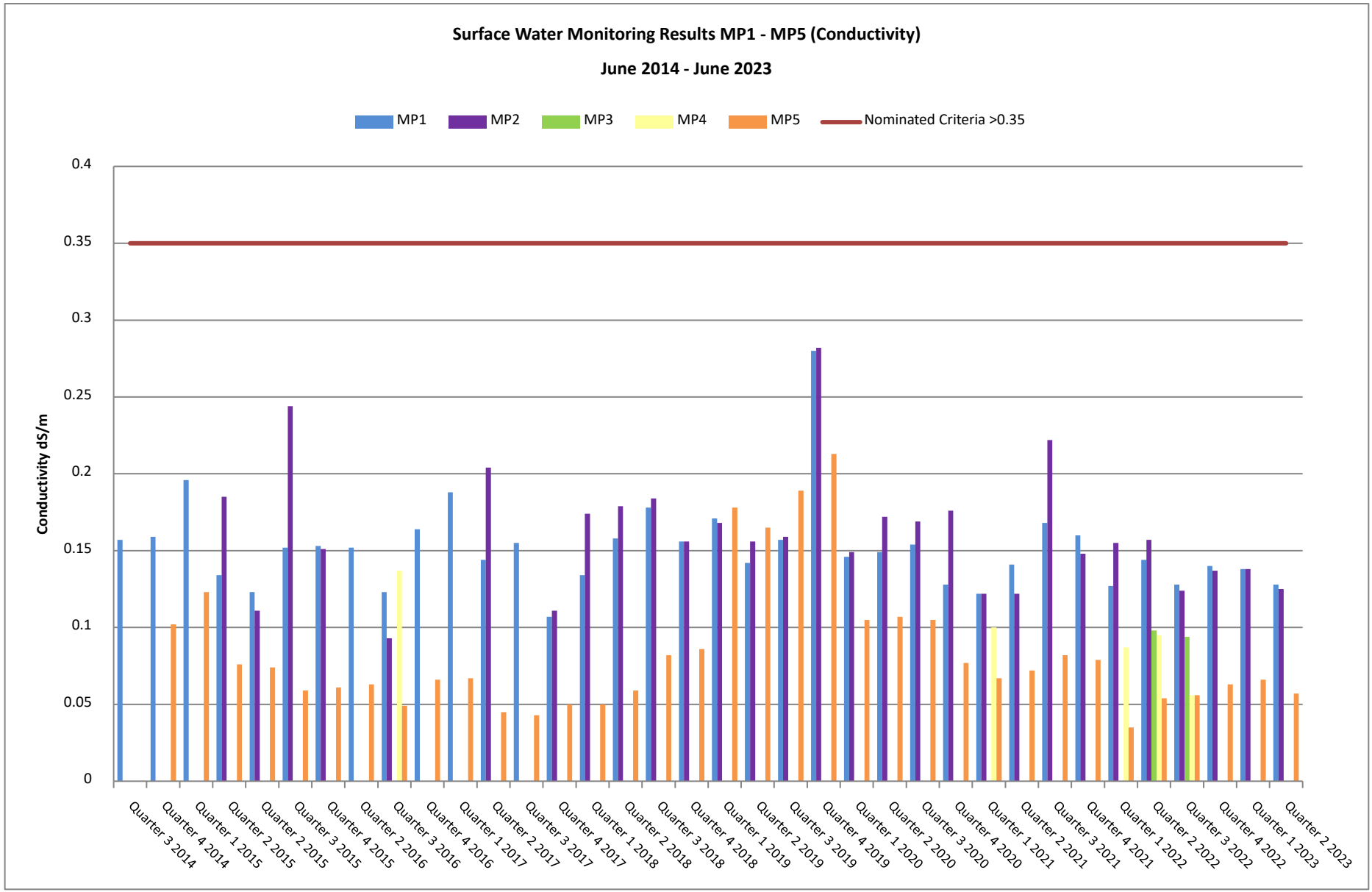
Quarter 4 2022
Quarter 1 2023
Quarter 2 2023


Surface Water Monitoring Results MP1 - MP5 (Conductivity)
June 2014 - June 2023
MP1
MP2
MP3
MP4
MP5
Nominated Criteria >0.35
Conductivity dS/m
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
Quarter 3 2014
Quarter 4 2014
Quarter 1 2015
Quarter 2 2015
Quarter 3 2015
Quarter 4 2015
Quarter 2 2016
Quarter 3 2016
Quarter 4 2016
Quarter 1 2017
Quarter 2 2017
Quarter 3 2017
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Quarter 4 2020
Quarter 1 2021
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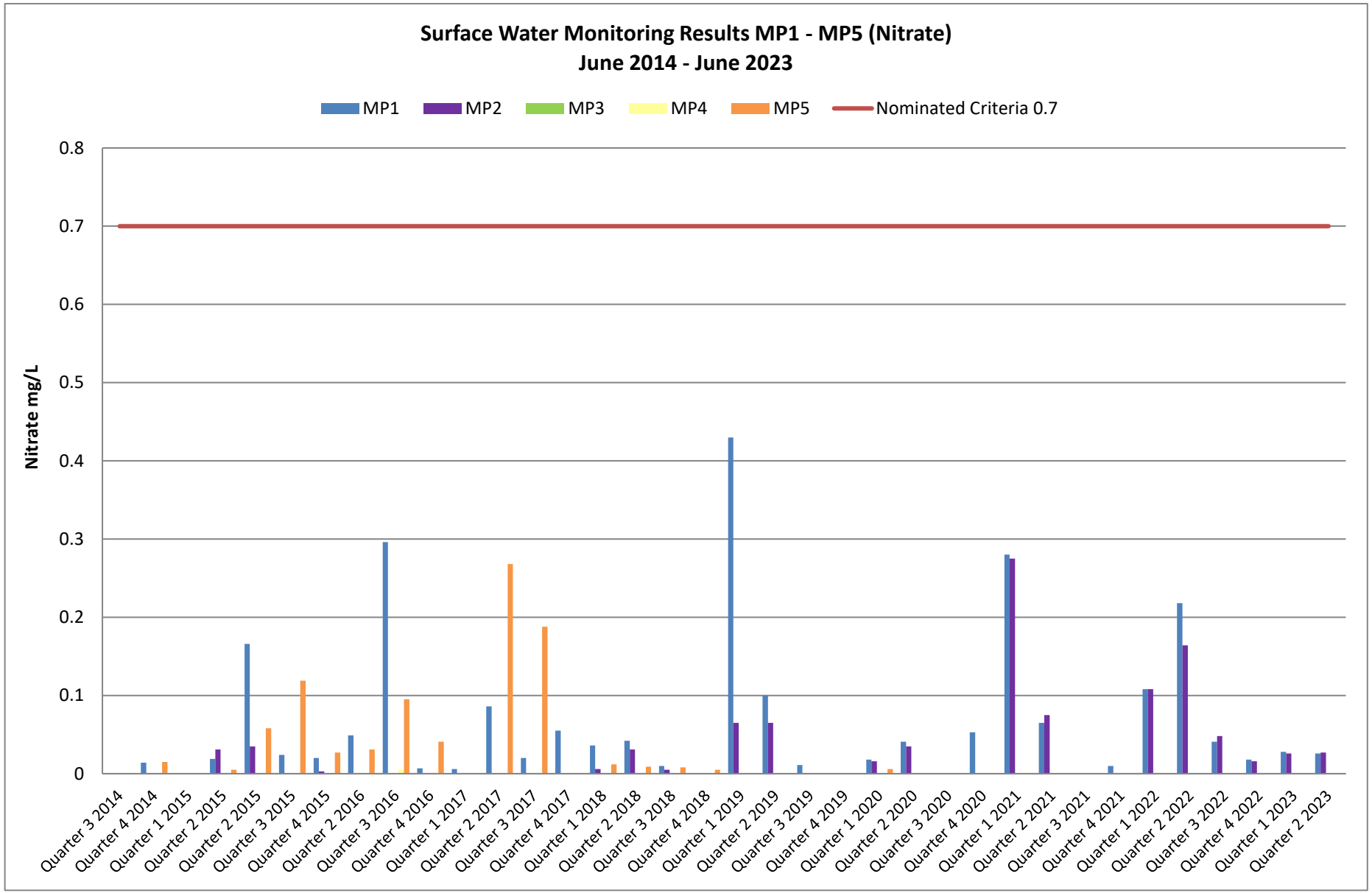
Quarter 4 2021
Quarter 1 2022
Quarter 2 2022
Quarter 3 2022
Quarter 4 2022
Quarter 1 2023
Quarter 2 2023


Surface Water Monitoring Results MP1 - MP5 (Nitrate)
June 2014 - June 2023
MP1
MP2
MP3
MP4
MP5
Nominated Criteria 0.7
Nitrate mg/L
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
Quarter 3 2014
Quarter 4 2014
Quarter 1 2015
Quarter 2 2015
Quarter 2 2015
Quarter 3 2015
Quarter 4 2015
Quarter 2 2016
Quarter 3 2016
Quarter 4 2016
Quarter 1 2017
Quarter 2 2017
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Quarter 4 2020
Quarter 1 2021
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Quarter 4 2021
Quarter 1 2022
Quarter 2 2022
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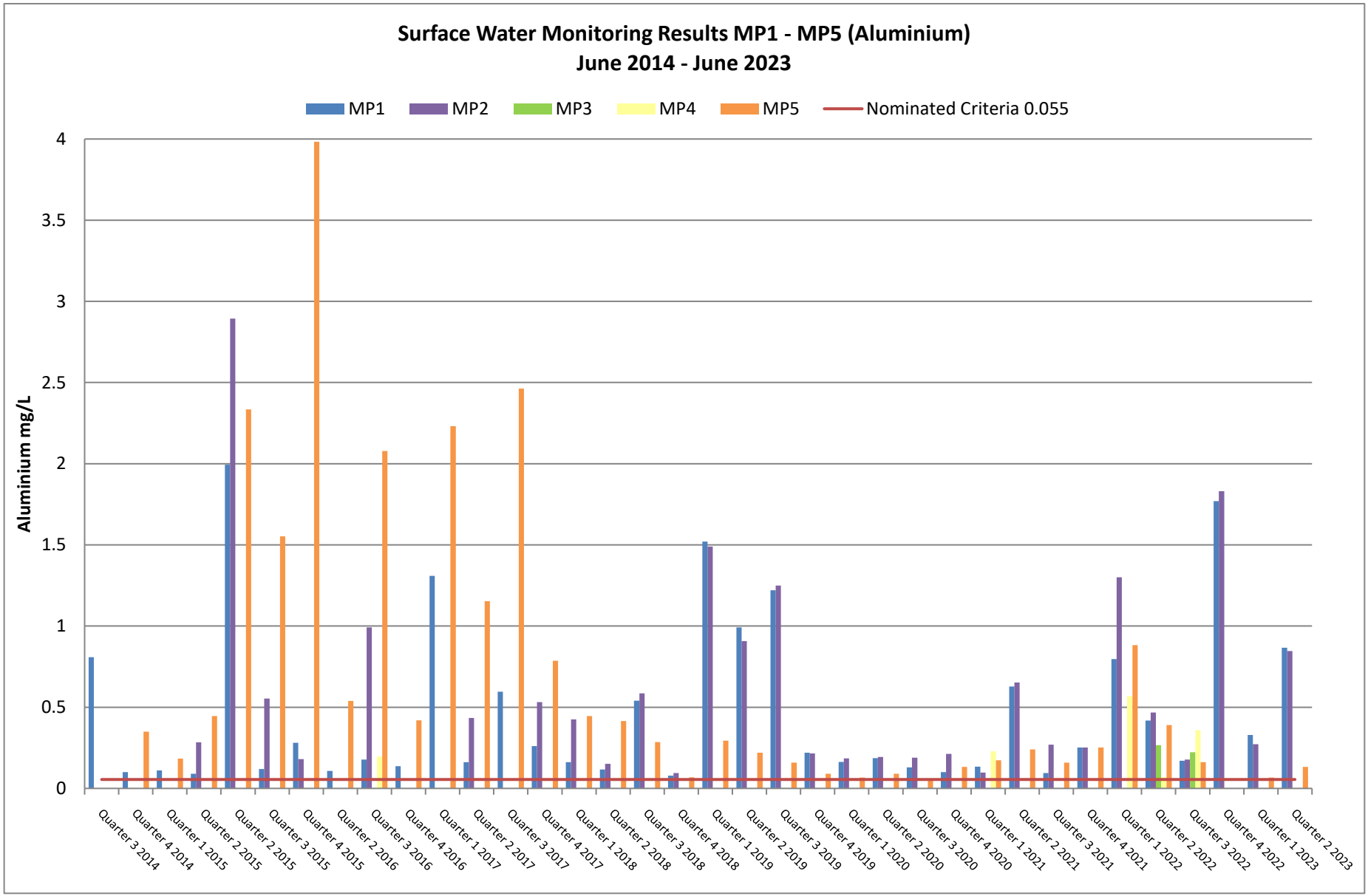
Quarter 4 2022
Quarter 1 2023
Quarter 2 2023


Surface Water Monitoring Results MP1 - MP5 (Aluminium)
June 2014 - June 2023
MP1
MP2
MP3
MP4
MP5
Nominated Criteria 0.055
Aluminium mg/L
4
3.5
3
2.5
2
1.5
1
0.5
0
Quarter 3 2014
Quarter 4 2014
Quarter 1 2015
Quarter 2 2015
Quarter 3 2015
Quarter 4 2015
Quarter 2 2016
Quarter 3 2016
Quarter 4 2016
Quarter 1 2017
Quarter 2 2017
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Quarter 1 2021
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Quarter 4 2021
Quarter 1 2022
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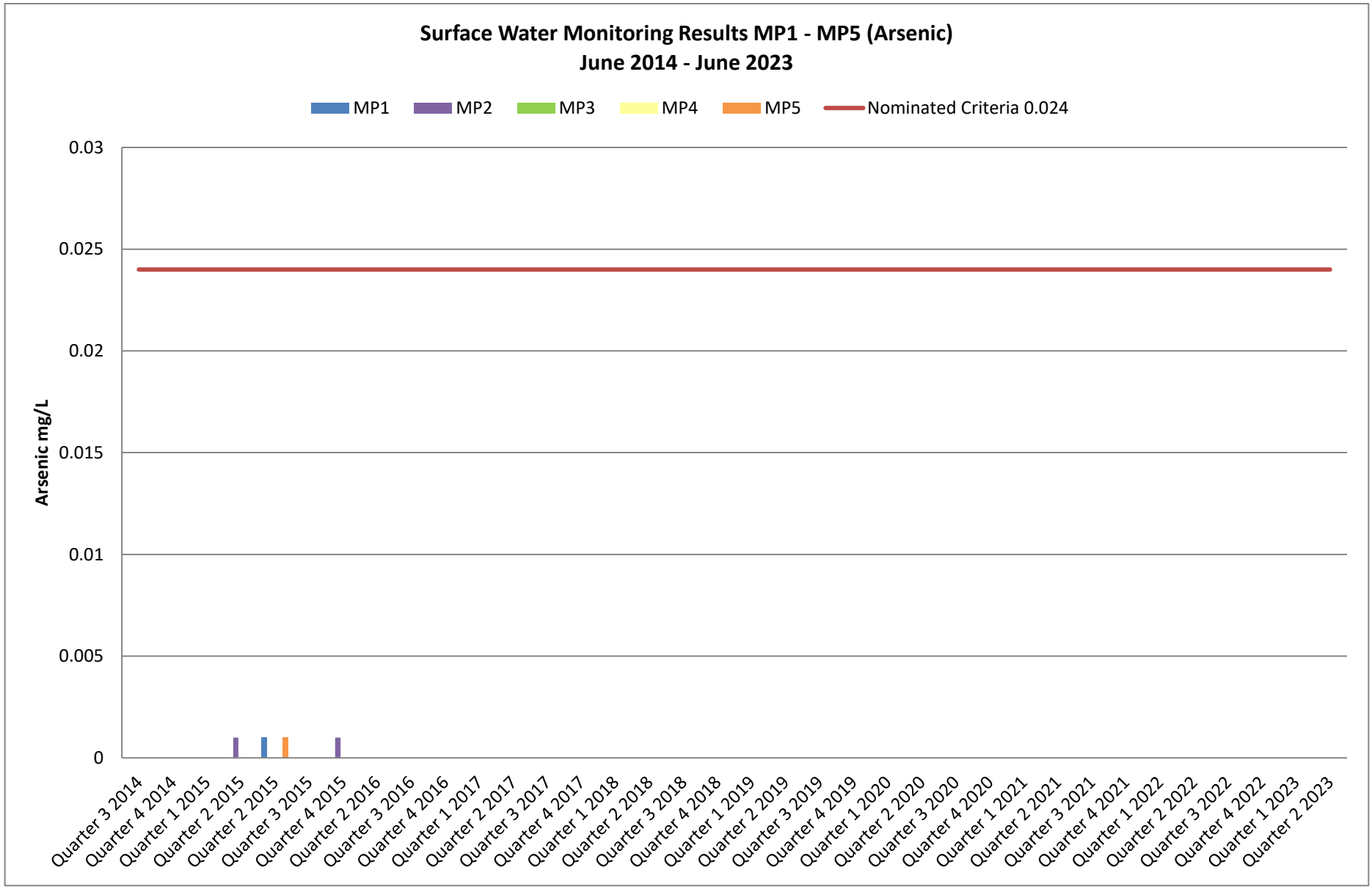
Quarter 3 2022
Quarter 4 2022
Quarter 1 2023
Quarter 2 2023


Surface Water Monitoring Results MP1 - MP5 (Arsenic)
June 2014 - June 2023
MP1
MP2
MP3
MP4
MP5
Nominated Criteria 0.024
Arsenic mg/L
0.03
0.025
0.02
0.015
0.01
0.005
0
Quarter 3 2014
Quarter 4 2014
Quarter 1 2015
Quarter 2 2015
Quarter 2 2015
Quarter 3 2015
Quarter 4 2015
Quarter 2 2016
Quarter 3 2016
Quarter 4 2016
Quarter 1 2017
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Quarter 4 2020
Quarter 1 2021
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Quarter 4 2021
Quarter 1 2022
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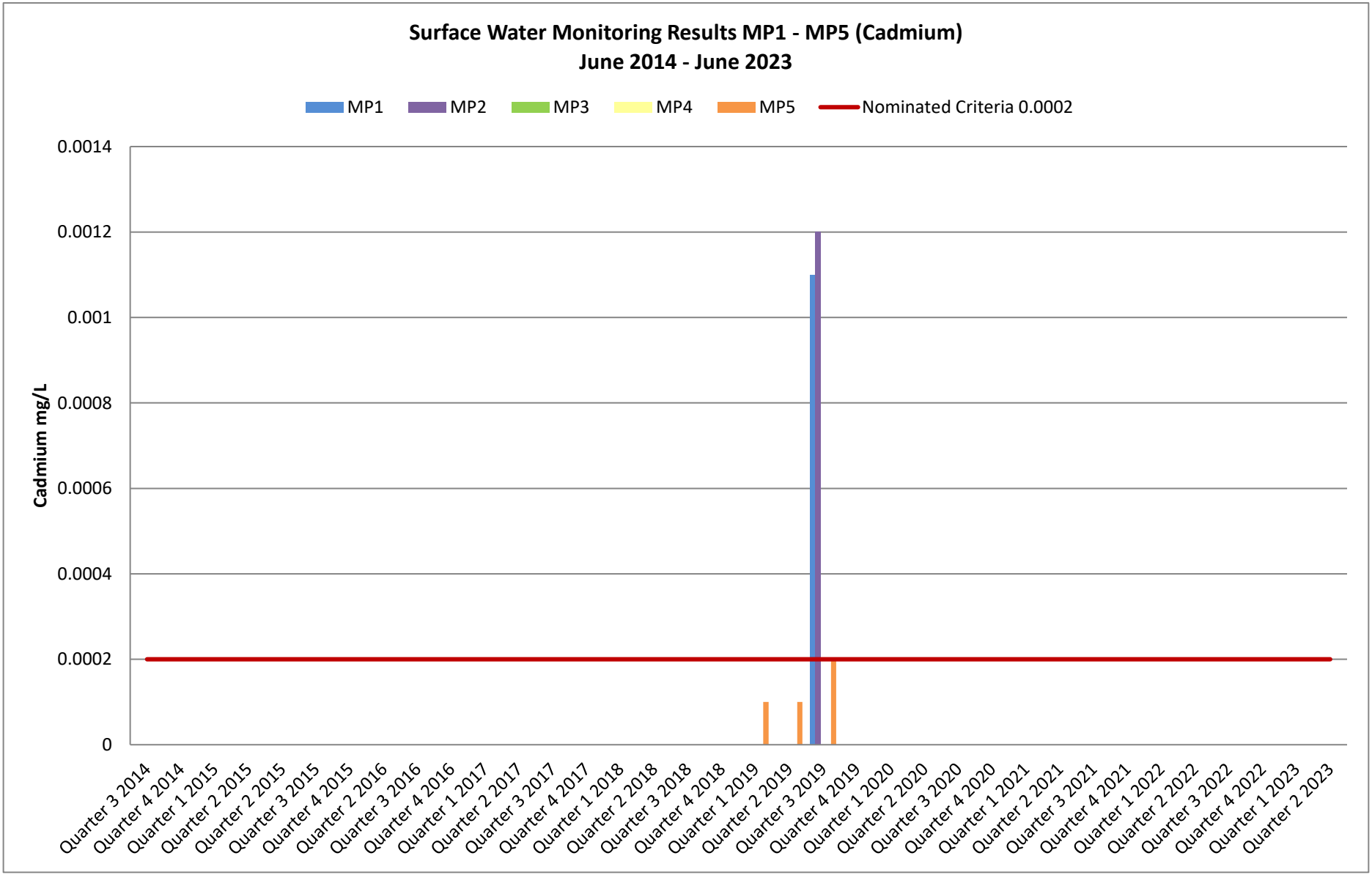
Quarter 4 2022
Quarter 1 2023
Quarter 2 2023


Surface Water Monitoring Results MP1 - MP5 (Cadmium)
June 2014 - June 2023
MP1
MP2
MP3
MP4
MP5
Nominated Criteria 0.0002
Cadmium mg/L
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
0
Quarter 3 2014
Quarter 4 2014
Quarter 1 2015
Quarter 2 2015
Quarter 2 2015
Quarter 3 2015
Quarter 4 2015
Quarter 2 2016
Quarter 3 2016
Quarter 4 2016
Quarter 1 2017
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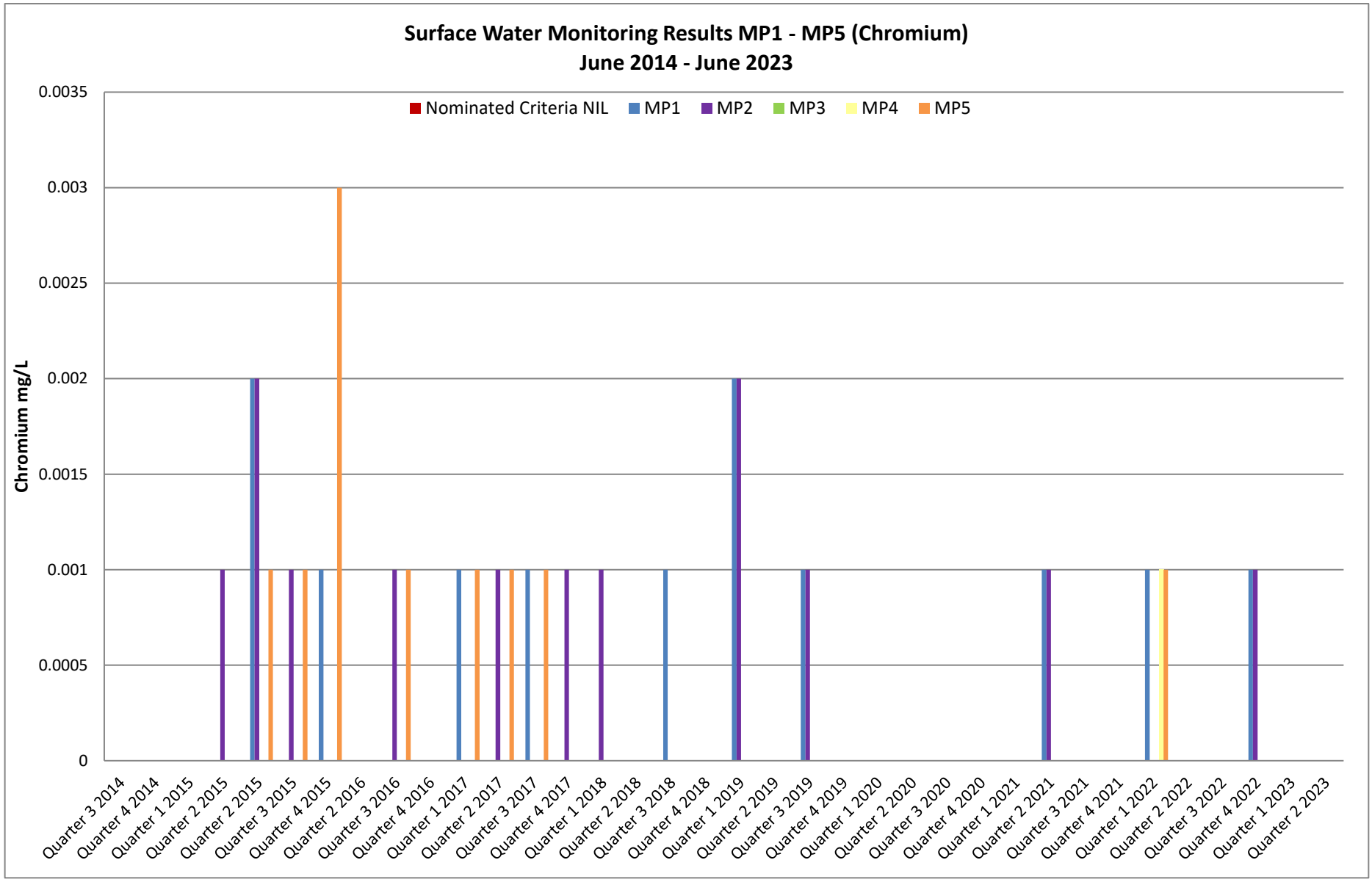
Quarter 2 2023


Surface Water Monitoring Results MP1 - MP5 (Chromium)
June 2014 - June 2023
Nominated Criteria NIL
MP1
MP2
MP3
MP4
MP5
Chromium mg/L
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005
0
Quarter 3 2014
Quarter 4 2014
Quarter 1 2015
Quarter 2 2015
Quarter 2 2015
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Quarter 4 2021
Quarter 1 2022
Quarter 2 2022
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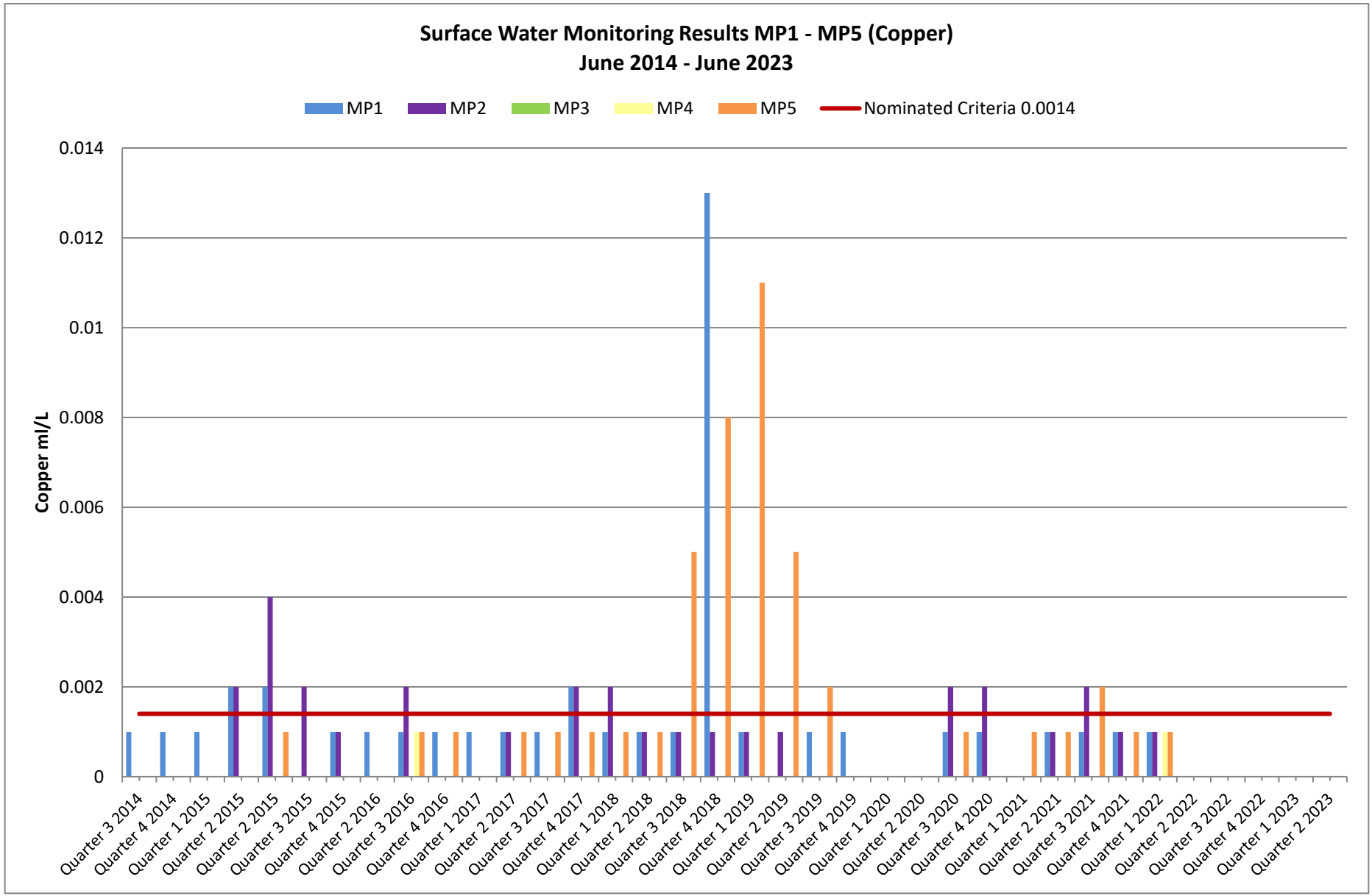
Quarter 4 2022
Quarter 1 2023
Quarter 2 2023


Surface Water Monitoring Results MP1 - MP5 (Copper)
June 2014 - June 2023
MP1
MP2
MP3
MP4
MP5
Nominated Criteria 0.0014
Copper ml/L
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0
Quarter 3 2014
Quarter 4 2014
Quarter 1 2015
Quarter 2 2015
Quarter 2 2015
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Quarter 1 2017
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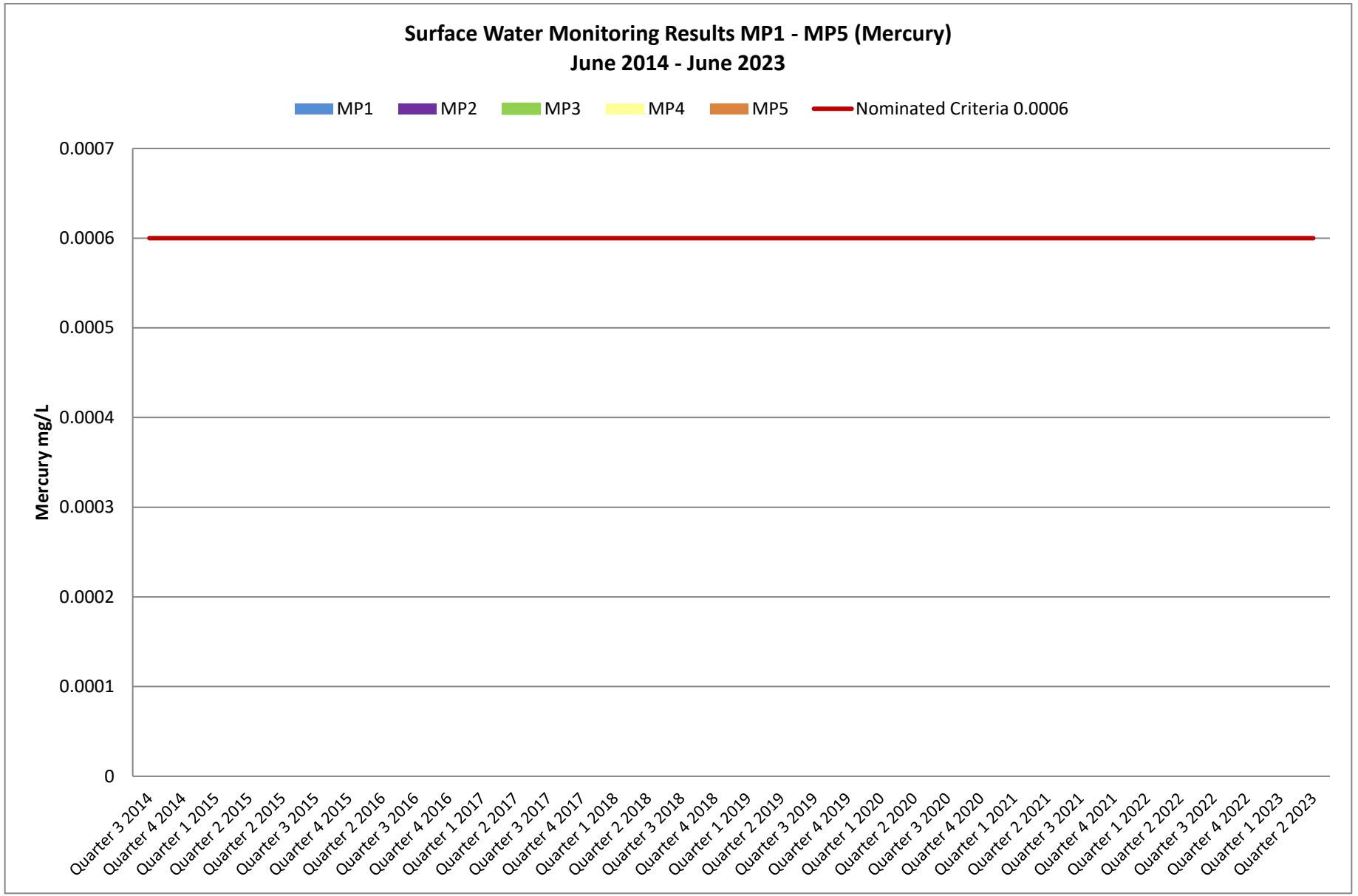
Quarter 1 2023
Quarter 2 2023


Surface Water Monitoring Results MP1 - MP5 (Mercury)
June 2014 - June 2023
MP1
MP2
MP3
MP4
MP5
Nominated Criteria 0.0006
Mercury mg/L
0.0007
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
0
Quarter 3 2014
Quarter 4 2014
Quarter 1 2015
Quarter 2 2015
Quarter 2 2015
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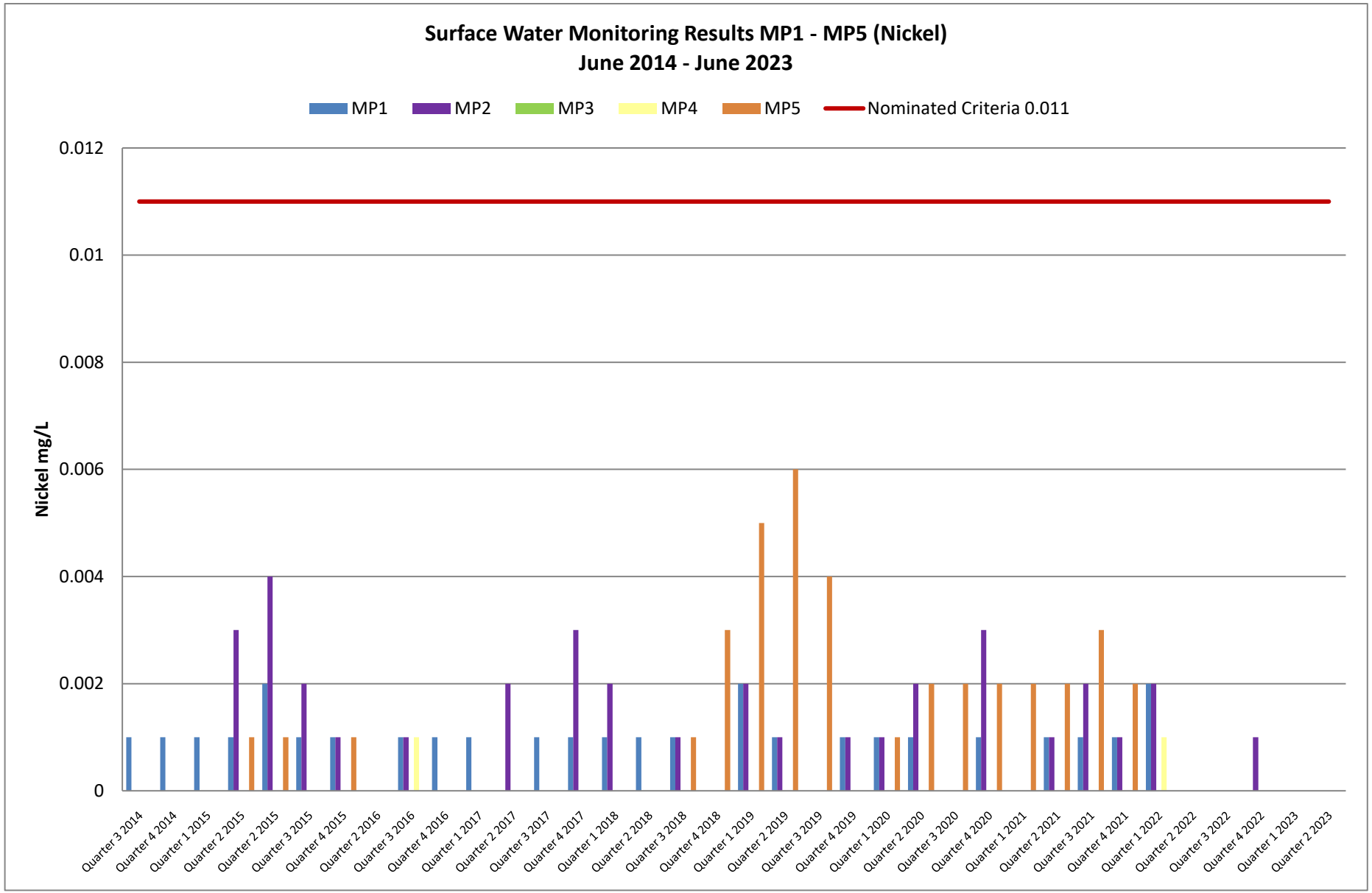
Quarter 1 2023
Quarter 2 2023


Surface Water Monitoring Results MP1 - MP5 (Nickel)
June 2014 - June 2023
MP1
MP2
MP3
MP4
MP5
Nominated Criteria 0.011
Nickel mg/L
0.012
0.01
0.008
0.006
0.004
0.002
0
Quarter 3 2014
Quarter 4 2014
Quarter 1 2015
Quarter 2 2015
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Quarter 1 2017
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Quarter 2 2020
Quarter 3 2020
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Quarter 4 2021
Quarter 1 2022
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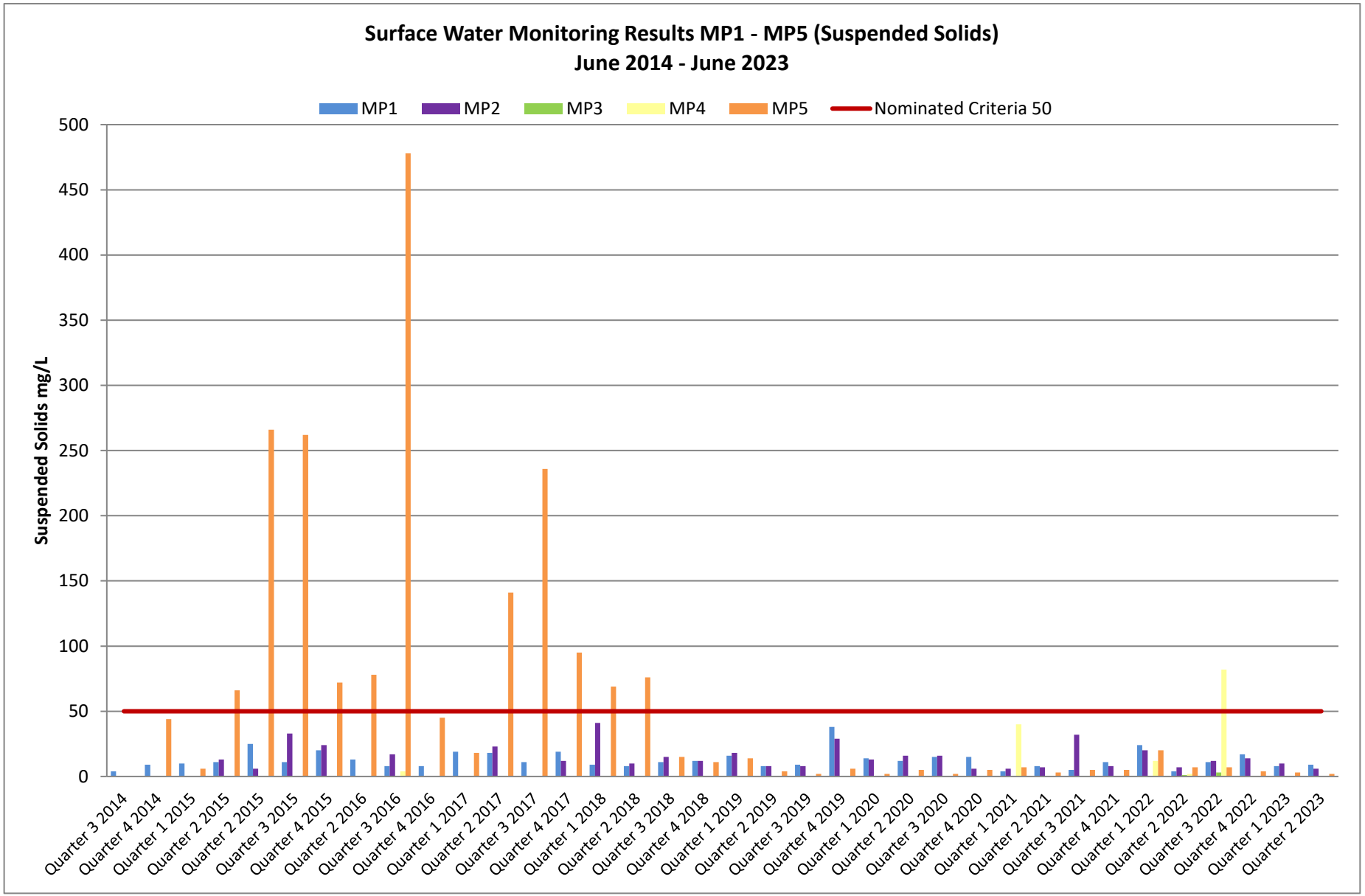
Quarter 3 2022
Quarter 4 2022
Quarter 1 2023
Quarter 2 2023


Surface Water Monitoring Results MP1 - MP5 (Suspended Solids)
June 2014 - June 2023
MP1
MP2
MP3
MP4
MP5
Nominated Criteria 50
Suspended Solids mg/L
500
450
400
350
300
250
200
150
100
50
0
Quarter 3 2014
Quarter 4 2014
Quarter 1 2015
Quarter 2 2015
Quarter 2 2015
Quarter 3 2015
Quarter 4 2015
Quarter 2 2016
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Quarter 1 2017
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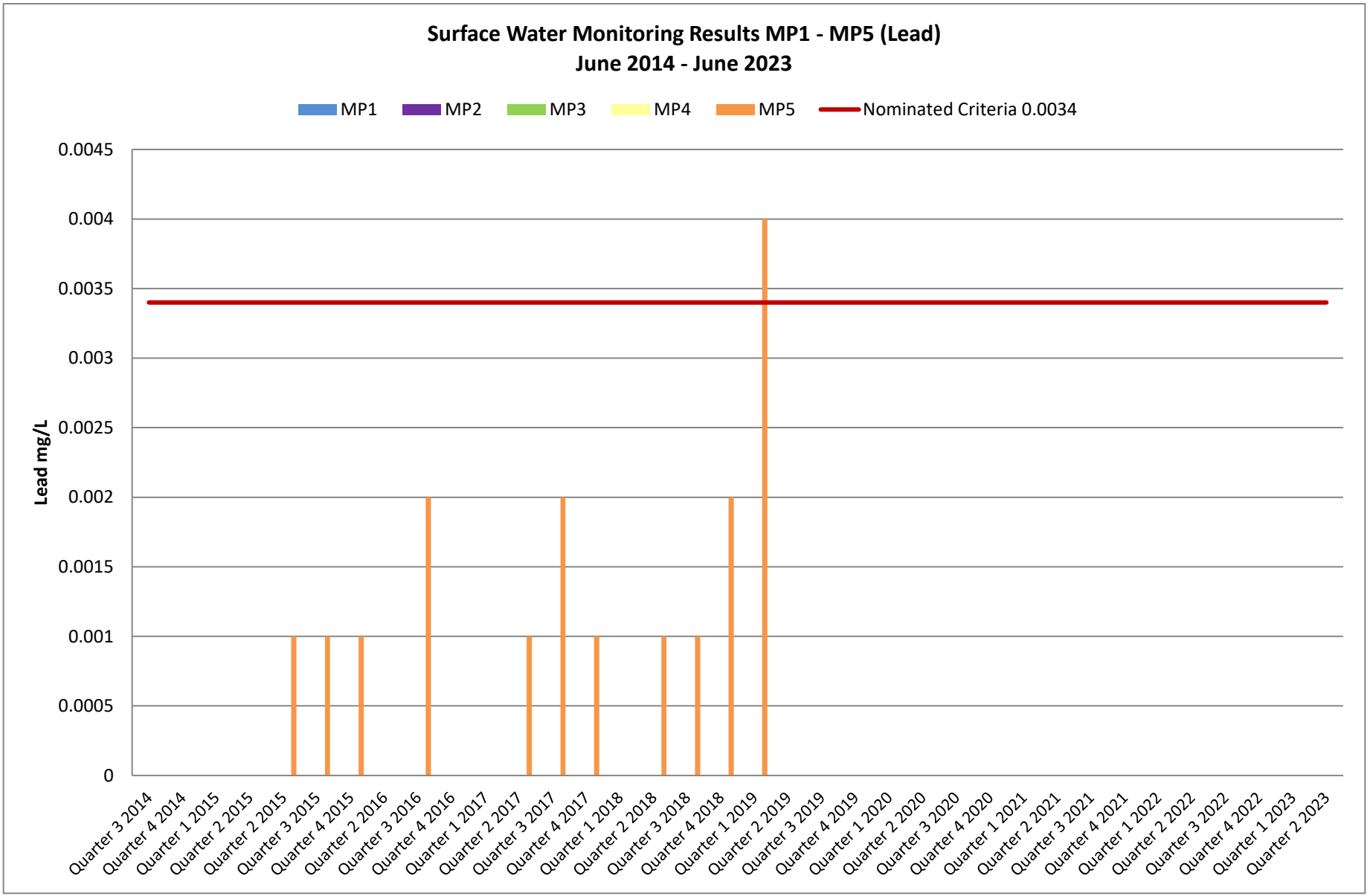
Quarter 1 2023
Quarter 2 2023


Surface Water Monitoring Results MP1 - MP5 (Lead)
June 2014 - June 2023
MP1
MP2
MP3
MP4
MP5
Nominated Criteria 0.0034
Lead mg/L
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005
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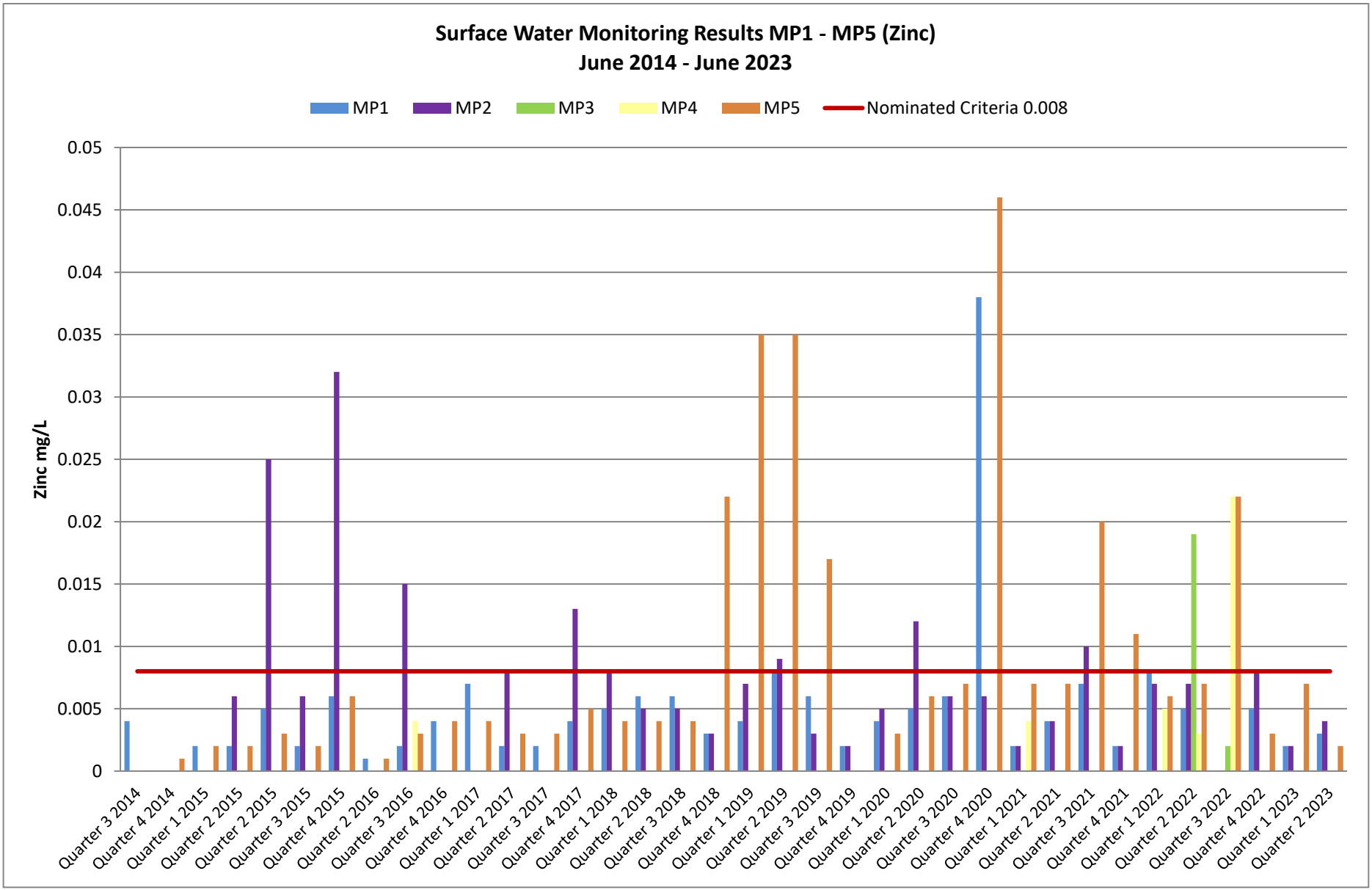
Surface Water Monitoring Results MP1 - MP5 (Zinc)
June 2014 - June 2023
MP1
MP2
MP3
MP4
MP5
Nominated Criteria 0.008
Zinc mg/L
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
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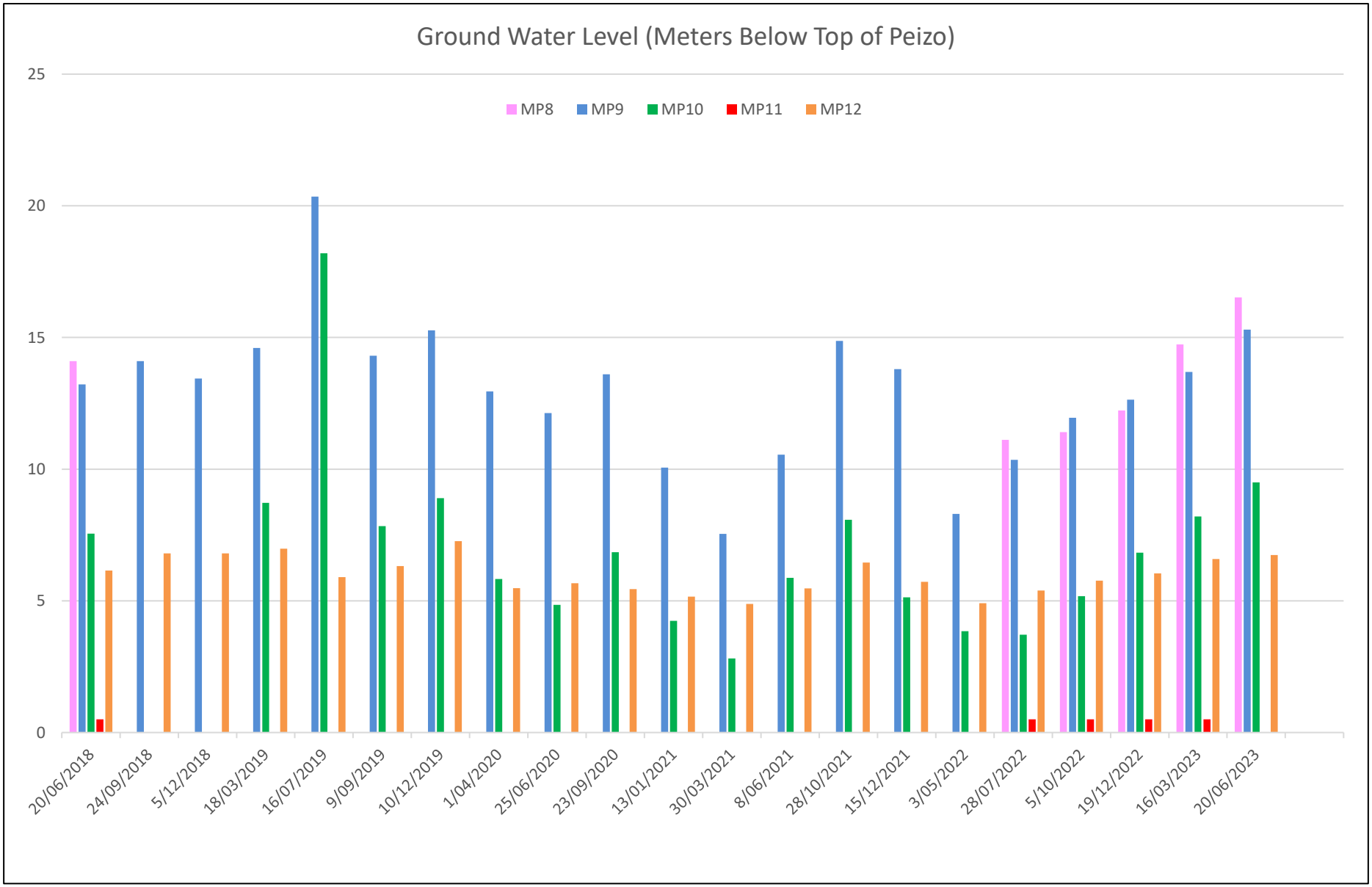
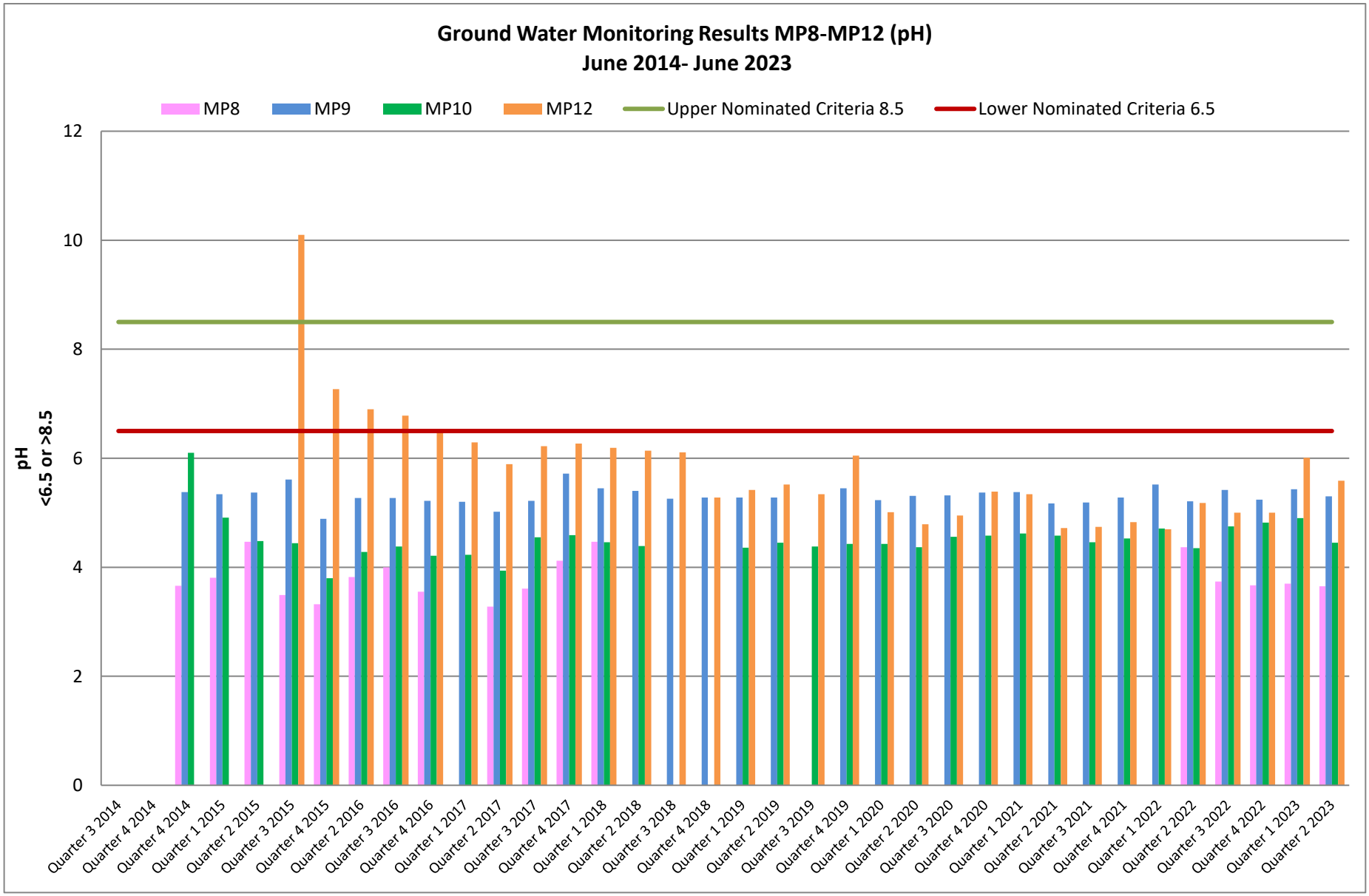

Ground Water Level (Meters Below Top of Peizo)
25
20
15
10
5
0
MP8
MP9
MP10
MP11
MP12
20/06/2018
24/09/2018
5/12/2018
18/03/2019
16/07/2019
9/09/2019
10/12/2019
1/04/2020
25/06/2020
23/09/2020
13/01/2021
30/03/2021
8/06/2021
28/10/2021
15/12/2021
3/05/2022
28/07/2022
5/10/2022
19/12/2022
16/03/2023
20/06/2023


Ground Water Monitoring Results MP8-MP12 (pH)
June 2014- June 2023
MP8
MP9
MP10
MP12
Upper Nominated Criteria 8.5
Lower Nominated Criteria 6.5
pH
<6.5 or >8.5
12
10
8
6
4
2
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Quarter 3 2014
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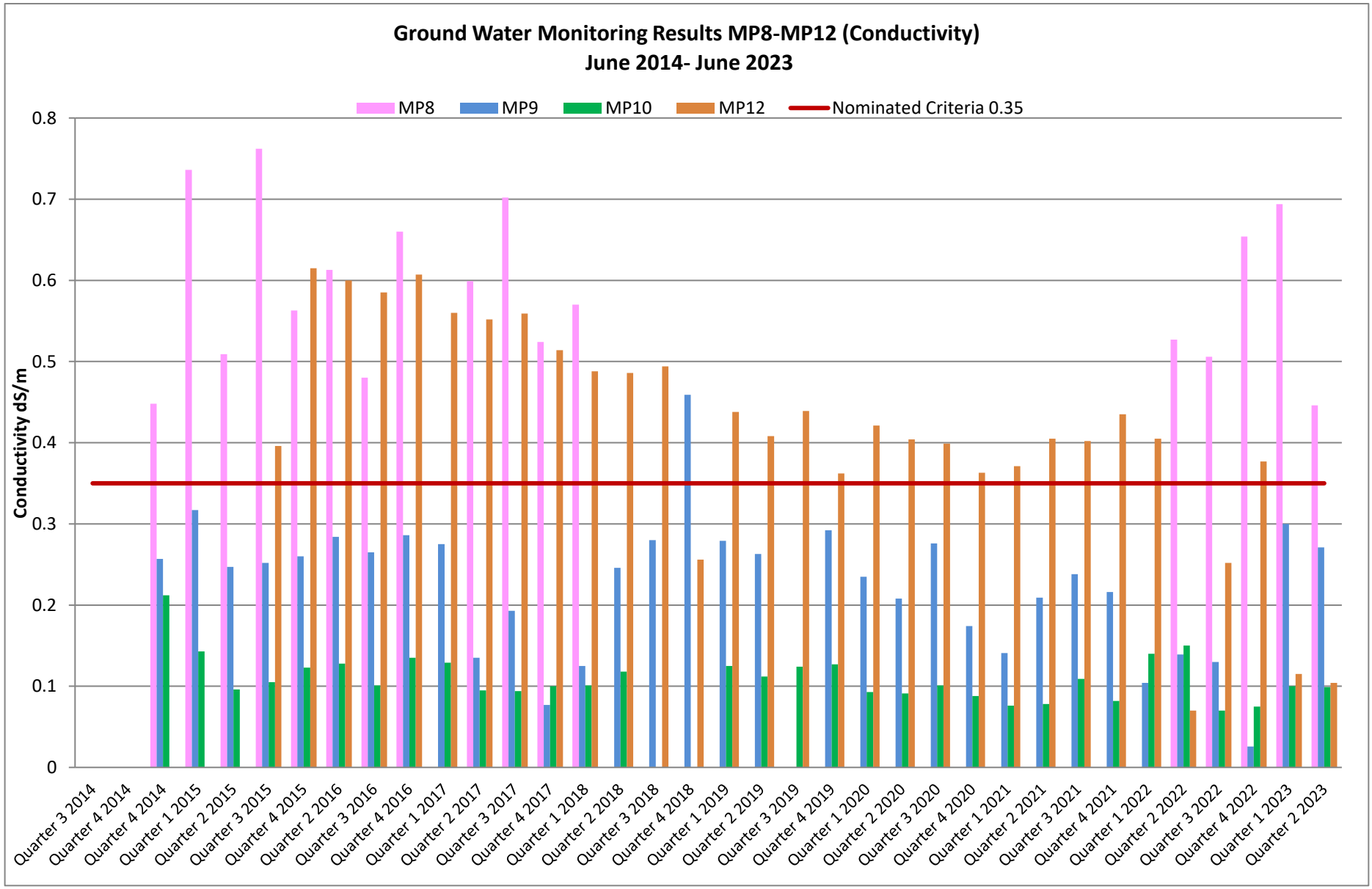
Ground Water Monitoring Results MP8-MP12 (Conductivity)
June 2014- June 2023
MP8
MP9
MP10
MP12
Nominated Criteria 0.35
Conductivity dS/m
0.8
0.7
0.6
0.5
0.4
0.3
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Quarter 3 2014
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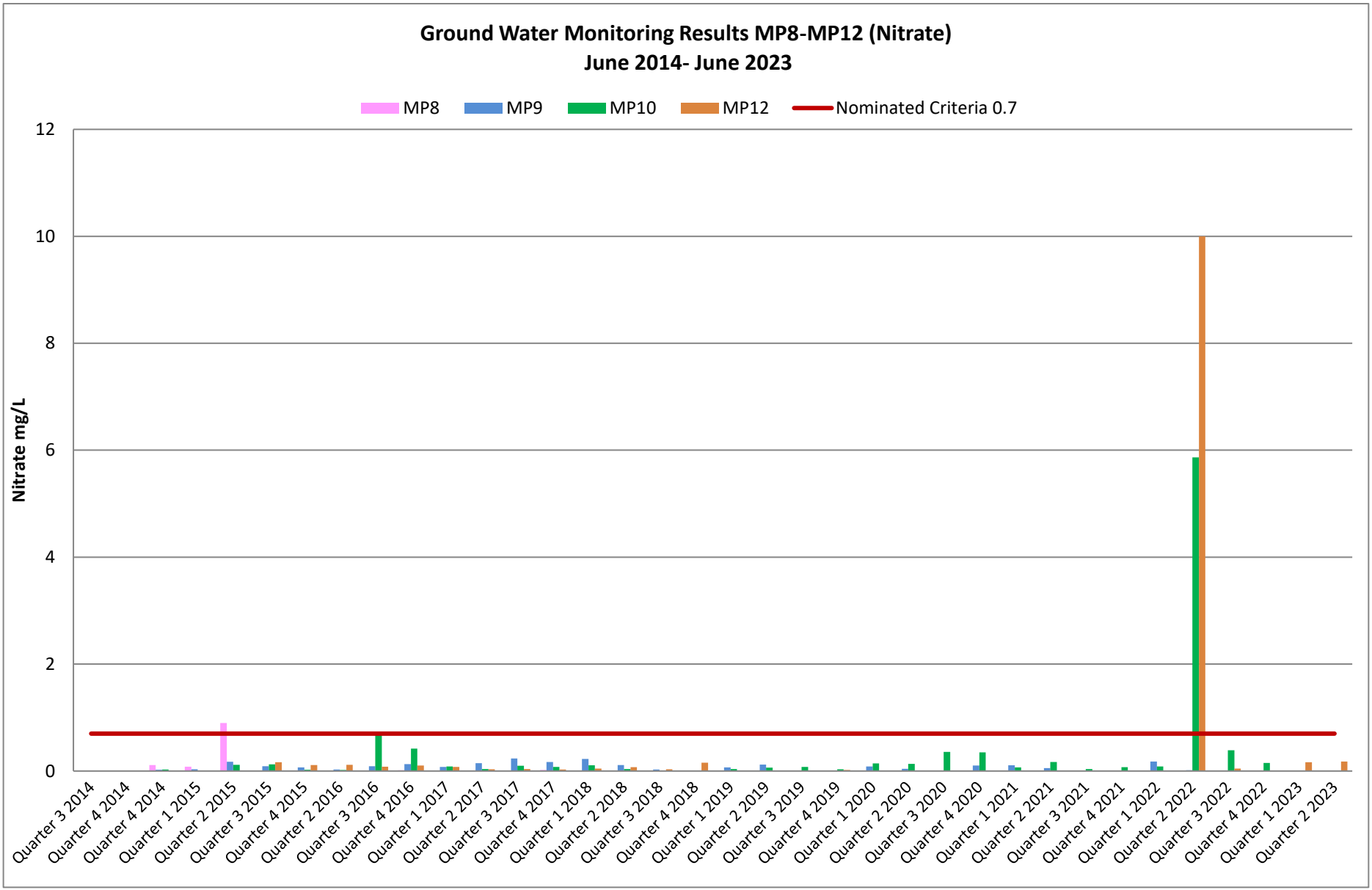
Ground Water Monitoring Results MP8-MP12 (Nitrate)
June 2014- June 2023
MP8
MP9
MP10
MP12
Nominated Criteria 0.7
Nitrate mg/L
12
10
8
6
4
2
0
Quarter 3 2014
Quarter 4 2014
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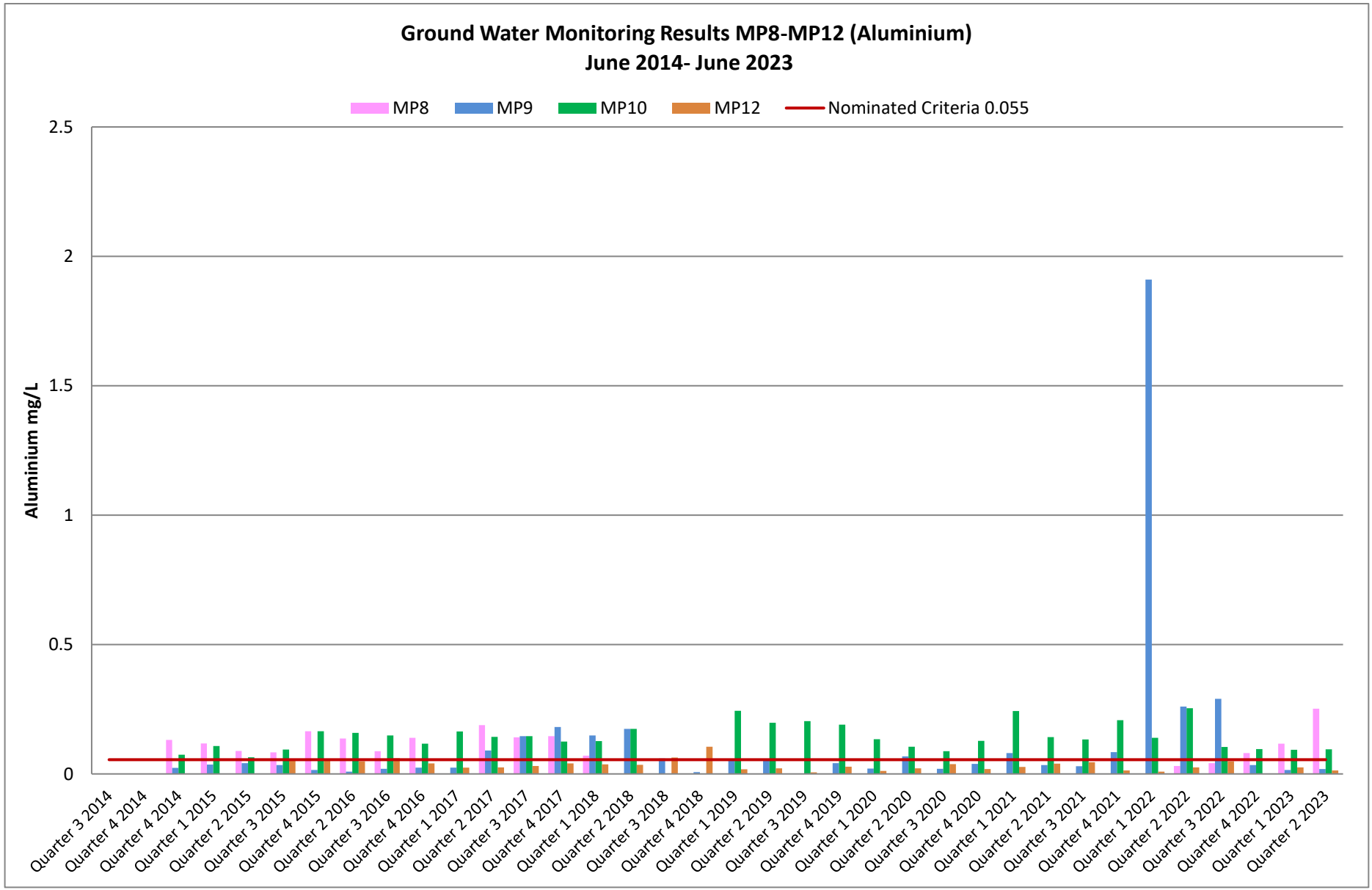
Ground Water Monitoring Results MP8-MP12 (Aluminium)
June 2014- June 2023
MP8
MP9
MP10
MP12
Nominated Criteria 0.055
Aluminium mg/L
2.5
2
1.5
1
0.5
0
Quarter 3 2014
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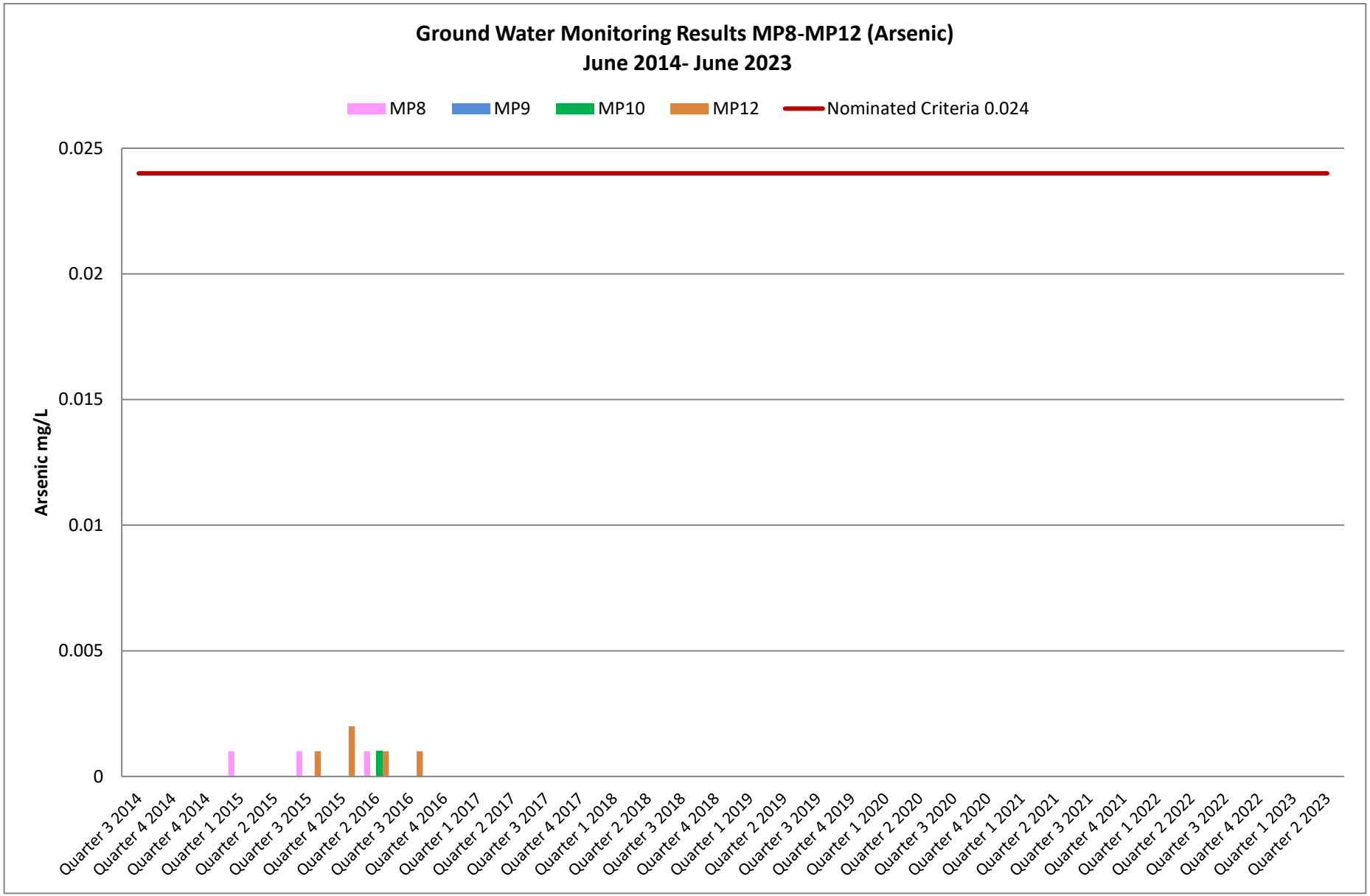
Ground Water Monitoring Results MP8-MP12 (Arsenic)
June 2014- June 2023
MP8
MP9
MP10
MP12
Nominated Criteria 0.024
Arsenic mg/L
0.025
0.02
0.015
0.01
0.005
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Quarter 3 2014
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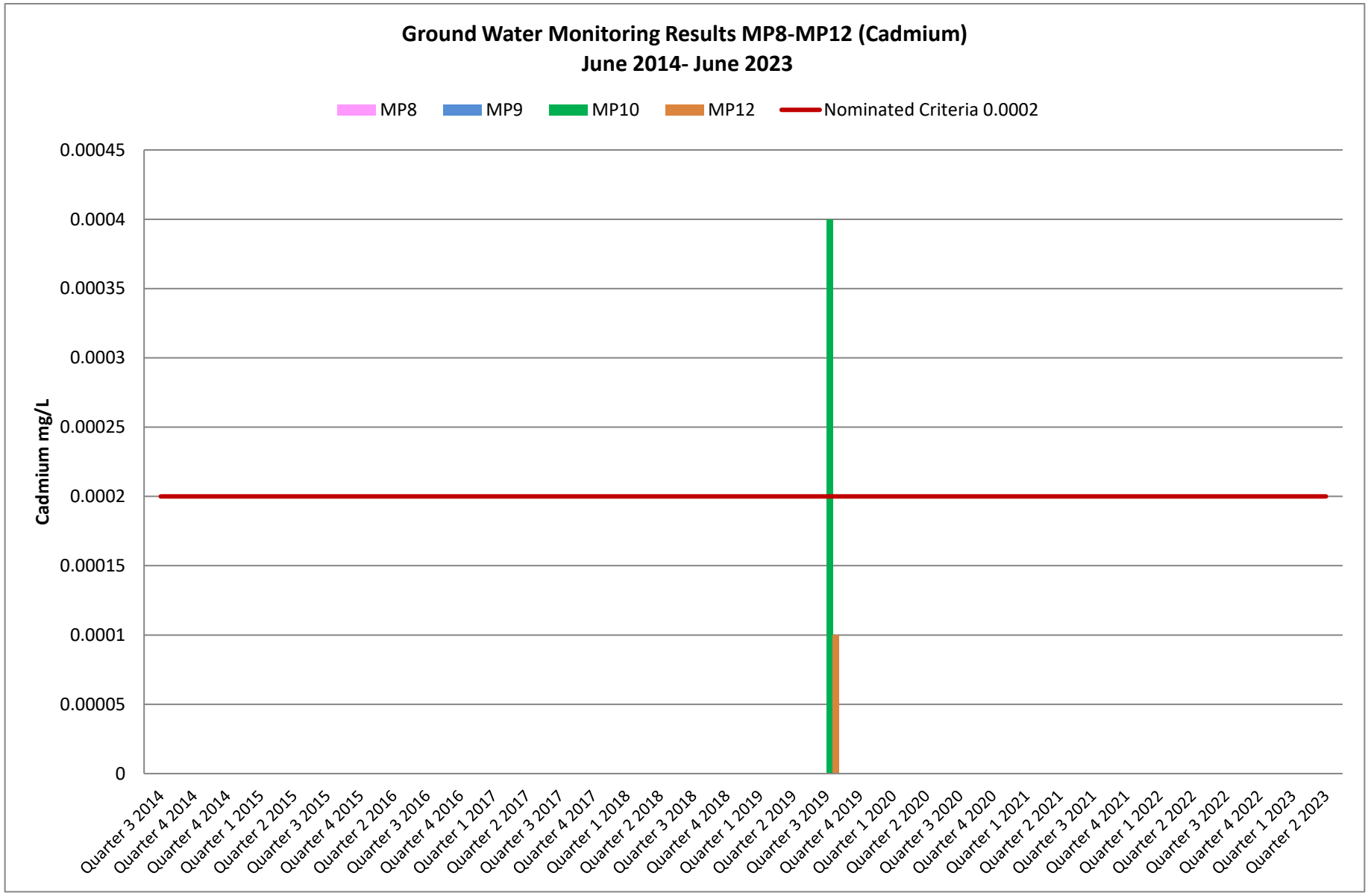
Ground Water Monitoring Results MP8-MP12 (Cadmium)
June 2014- June 2023
MP8
MP9
MP10
MP12
Nominated Criteria 0.0002
Cadmium mg/L
0.00045
0.0004
0.00035
0.0003
0.00025
0.0002
0.00015
0.0001
0.00005
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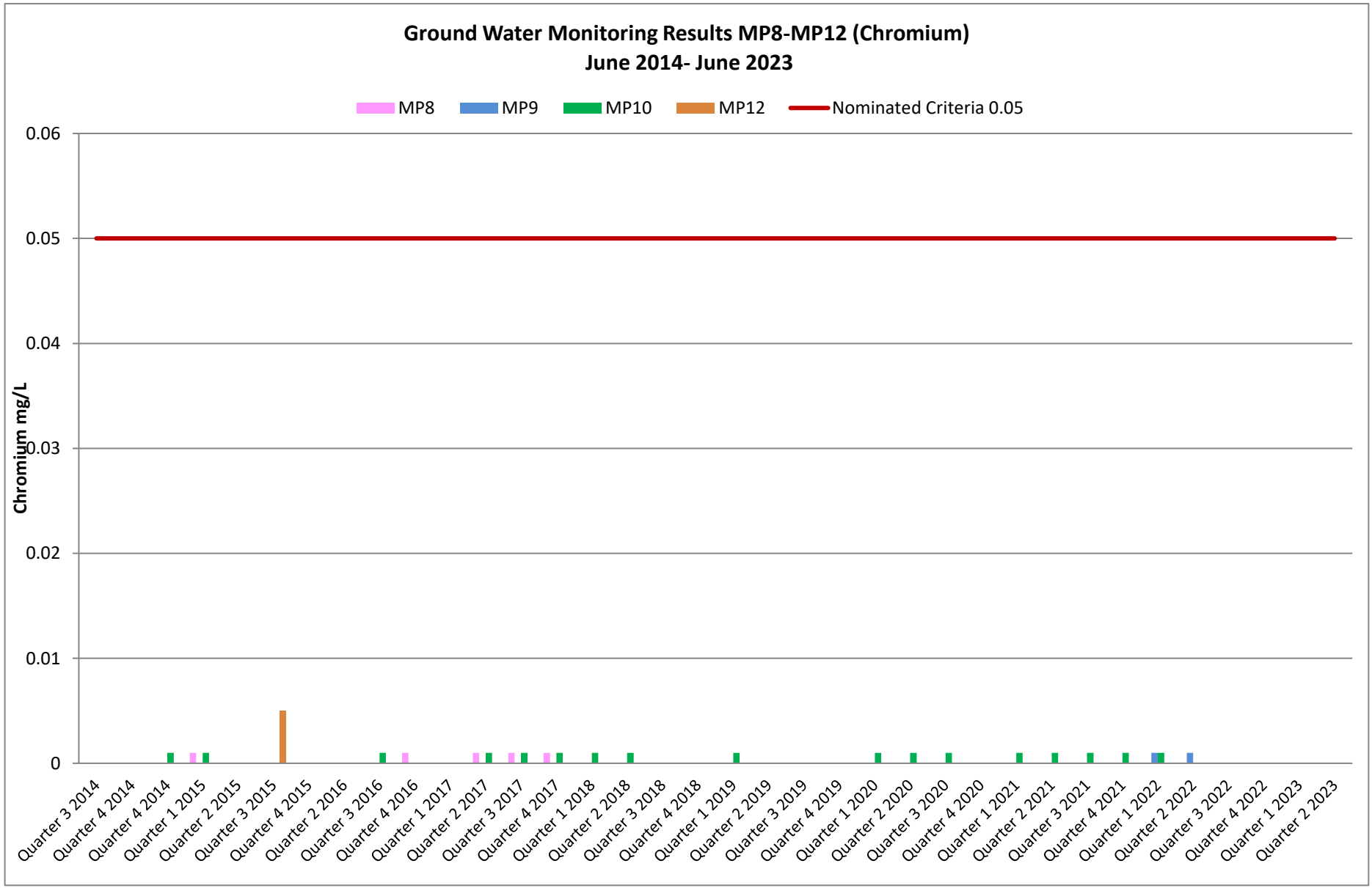
Ground Water Monitoring Results MP8-MP12 (Chromium)
June 2014- June 2023
MP8
MP9
MP10
MP12
Nominated Criteria 0.05
Chromium mg/L
0.06
0.05
0.04
0.03
0.02
0.01
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Quarter 3 2014
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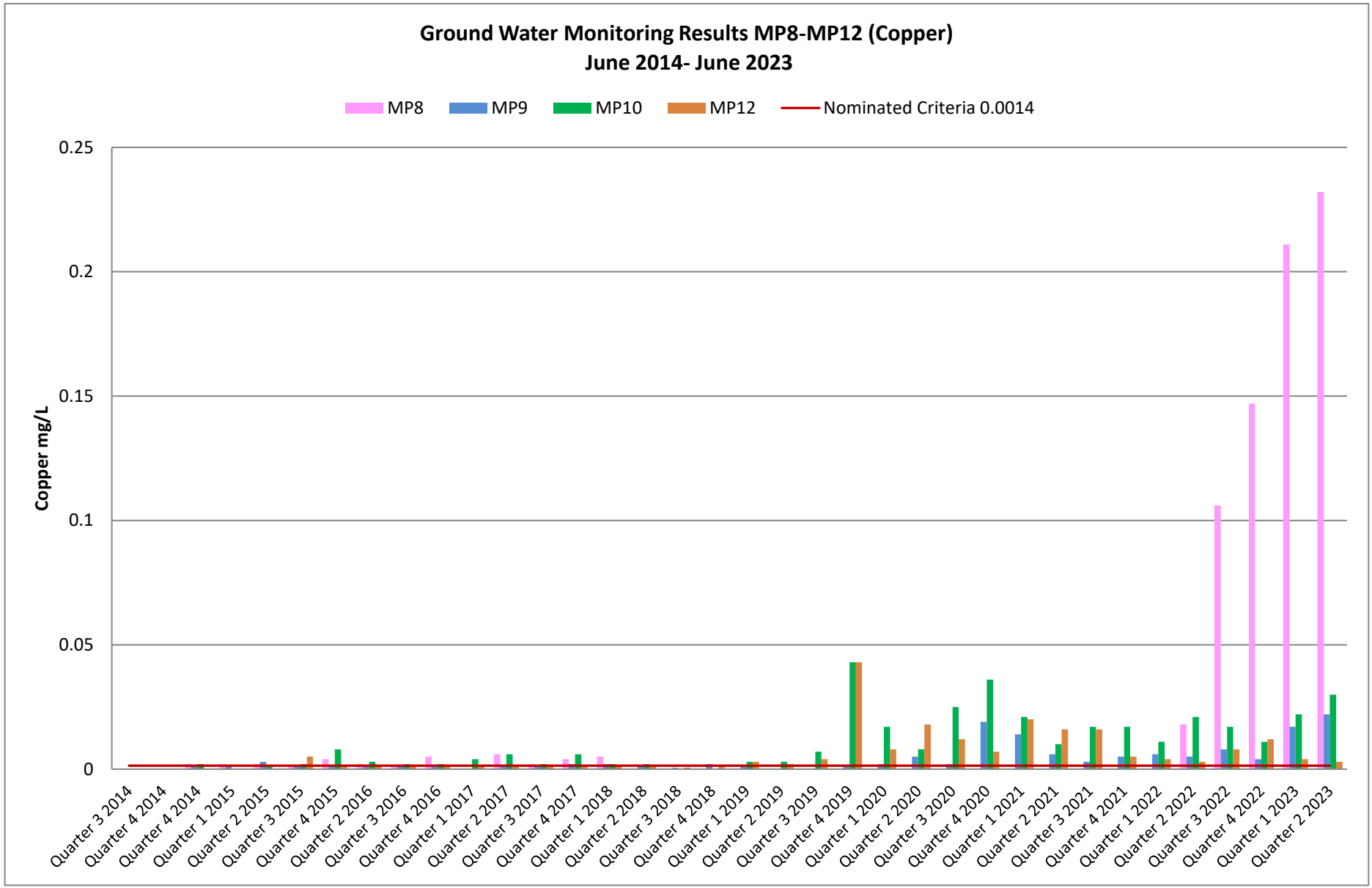
Ground Water Monitoring Results MP8-MP12 (Copper)
June 2014- June 2023
MP8
MP9
MP10
MP12
Nominated Criteria 0.0014
Copper mg/L
0.25
0.2
0.15
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0.05
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Quarter 3 2014
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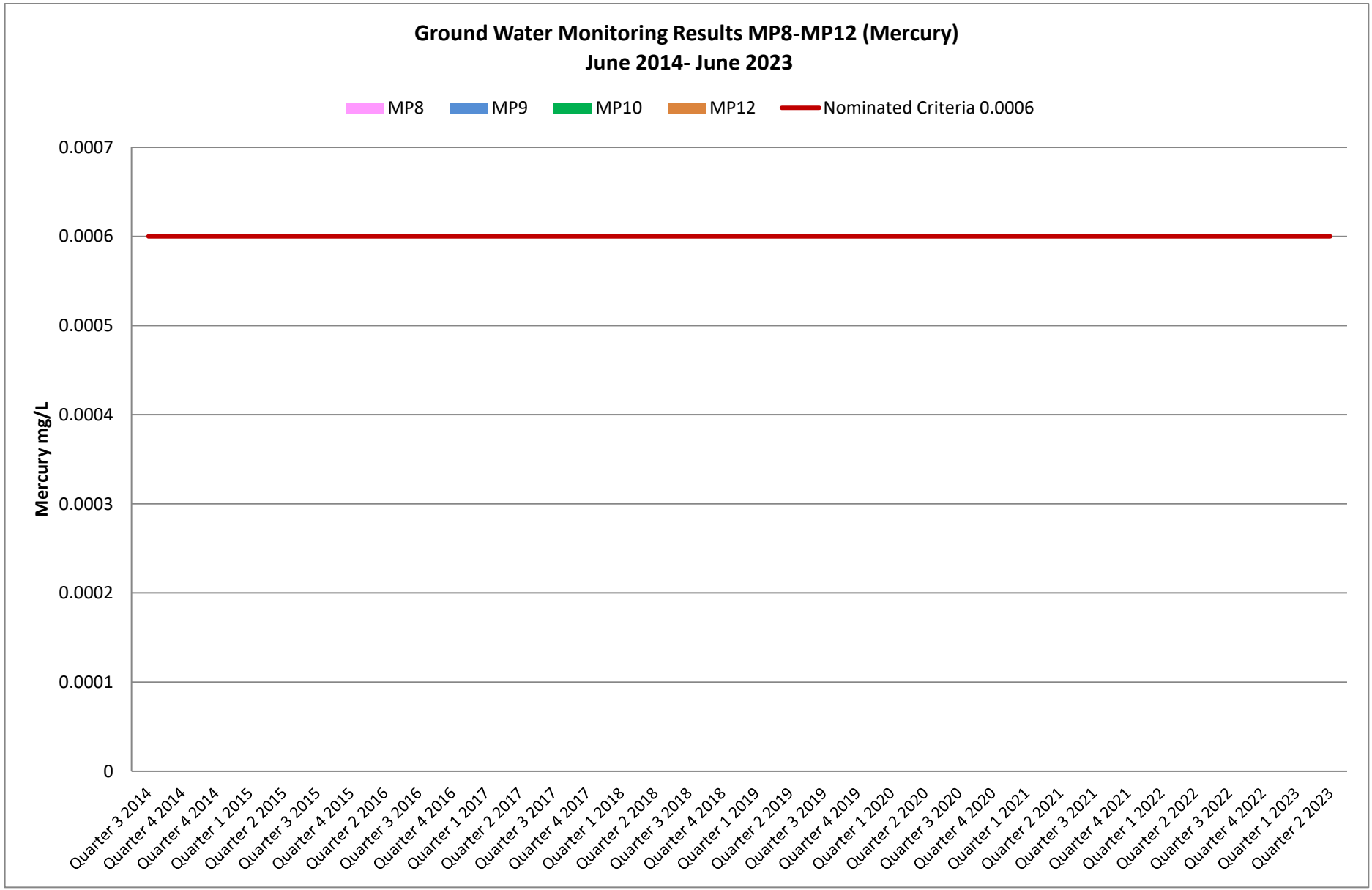
Ground Water Monitoring Results MP8-MP12 (Mercury)
June 2014- June 2023
MP8
MP9
MP10
MP12
Nominated Criteria 0.0006
Mercury mg/L
0.0007
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
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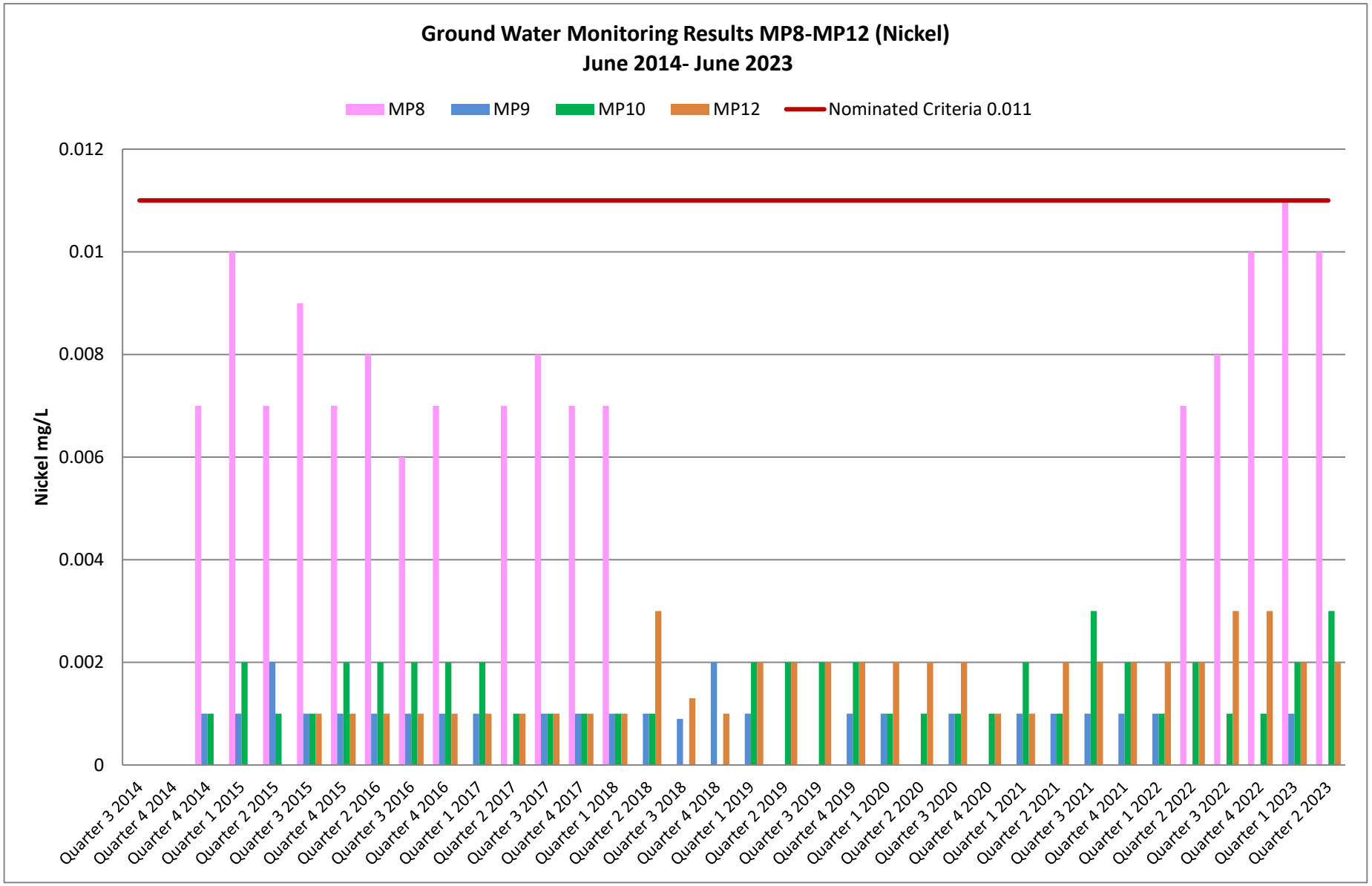
Ground Water Monitoring Results MP8-MP12 (Nickel)
June 2014- June 2023
MP8
MP9
MP10
MP12
Nominated Criteria 0.011
Nickel mg/L
0.012
0.01
0.008
0.006
0.004
0.002
0
Quarter 3 2014
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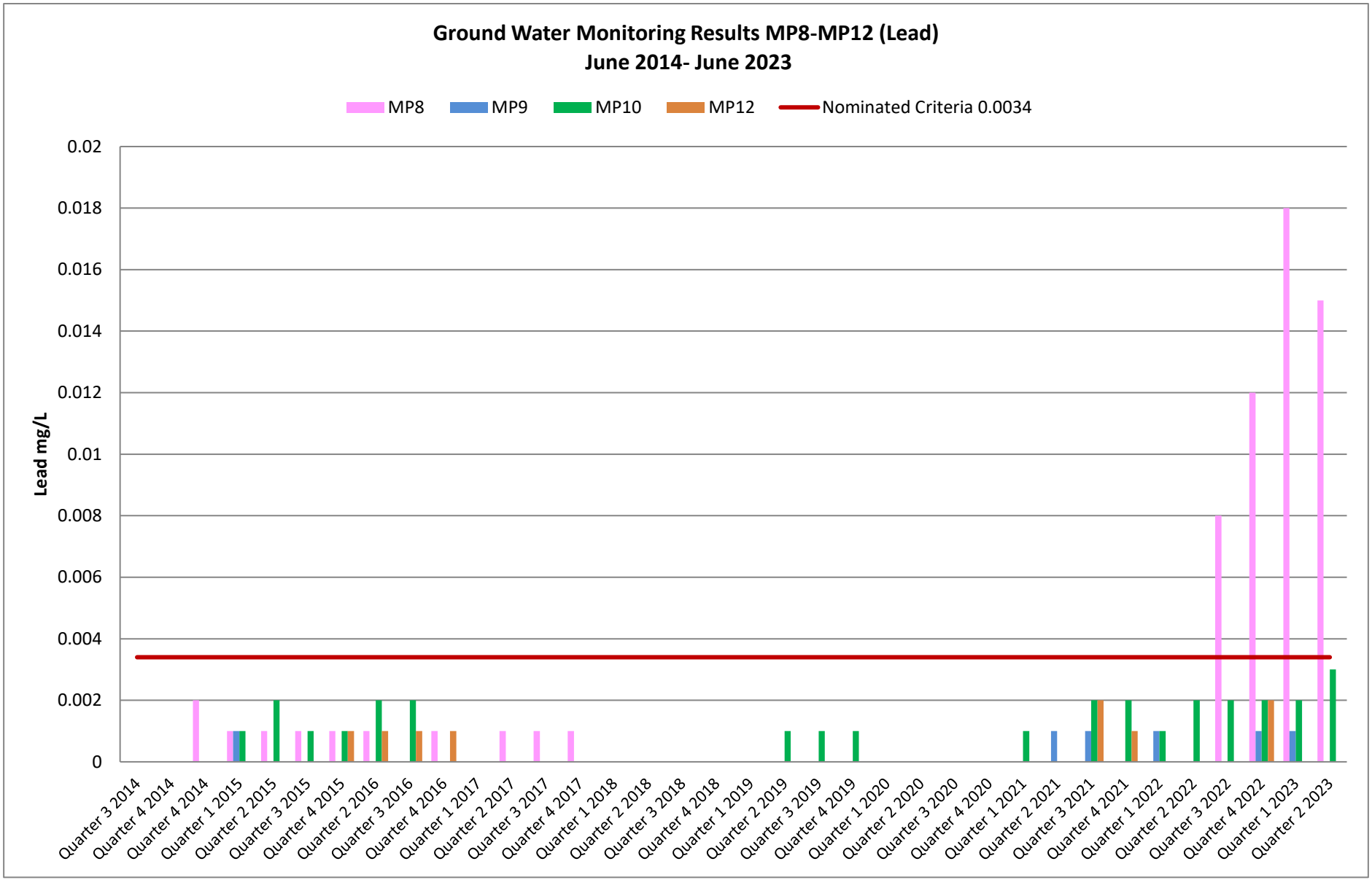
Ground Water Monitoring Results MP8-MP12 (Lead)
June 2014- June 2023
MP8
MP9
MP10
MP12
Nominated Criteria 0.0034
Lead mg/L
0.02
0.018
0.016
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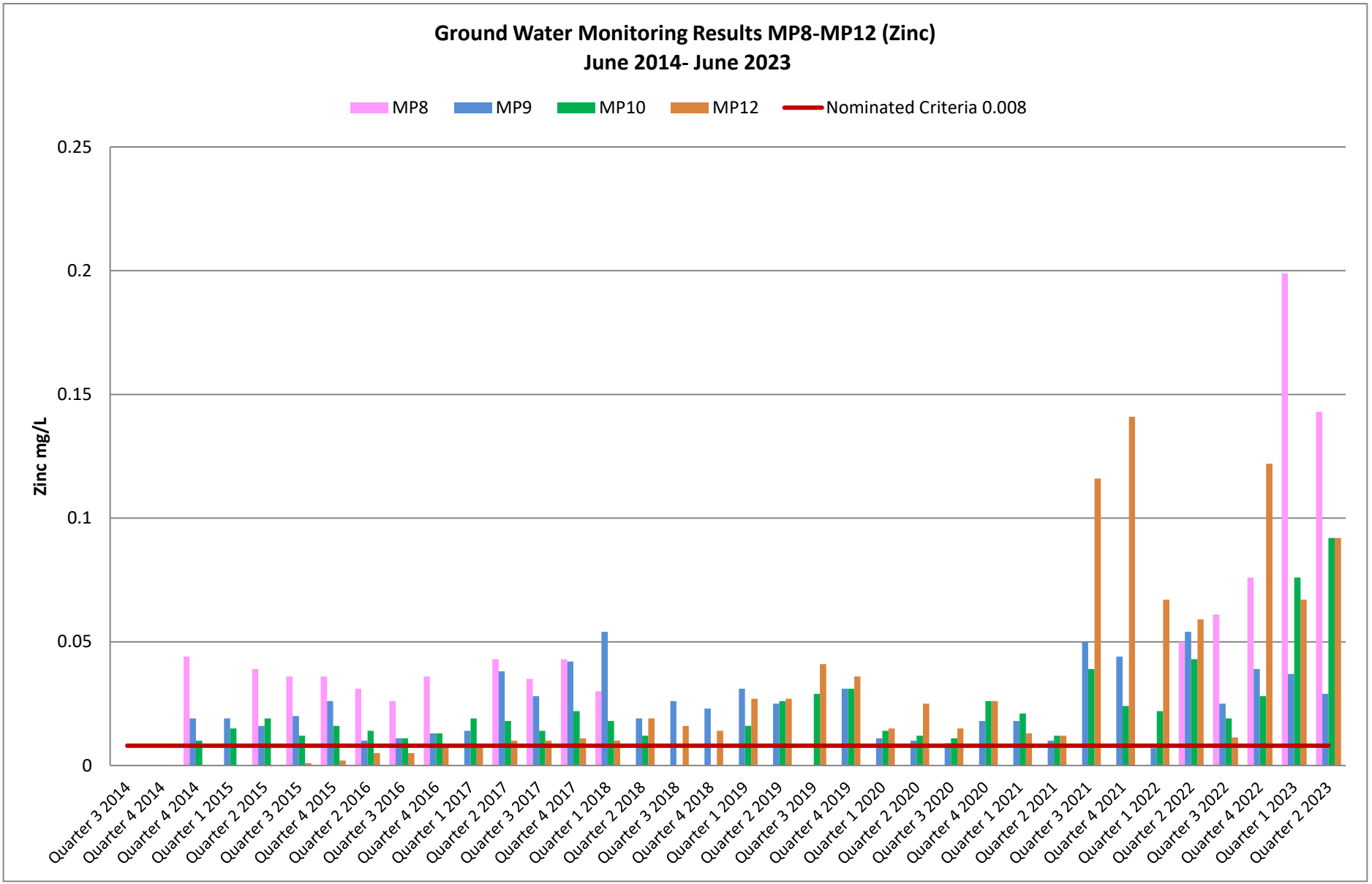
Ground Water Monitoring Results MP8-MP12 (Zinc)
June 2014- June 2023
MP8
MP9
MP10
MP12
Nominated Criteria 0.008
Zinc mg/L
0.25
0.2
0.15
0.1
0.05
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Quarter 3 2014
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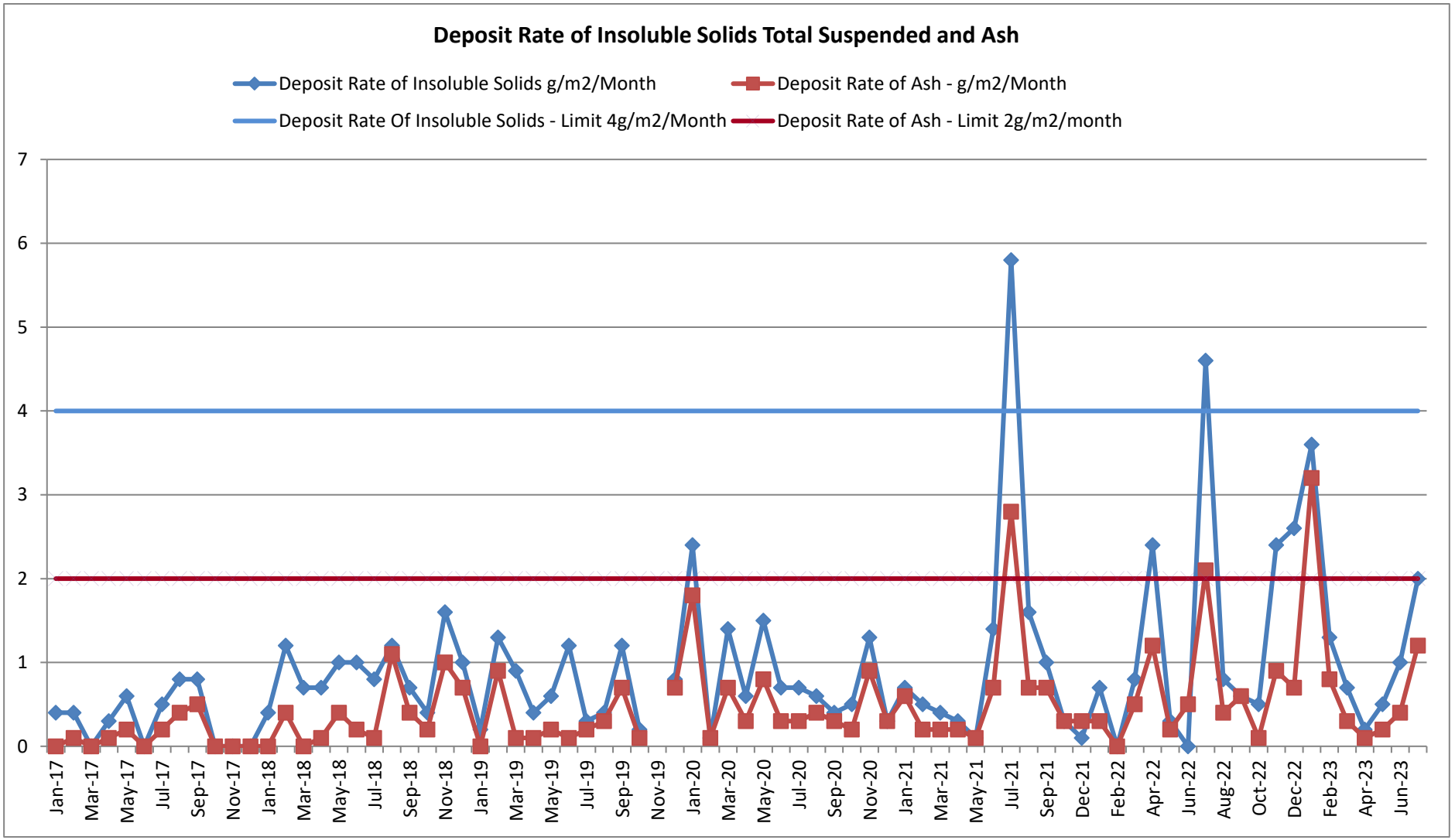
Deposit Rate of Insoluble Solids Total Suspended and Ash
Deposit Rate of Insoluble Solids g/m2/Month
Deposit Rate of Ash - g/m2/Month
Deposit Rate Of Insoluble Solids - Limit 4g/m2/Month
Deposit Rate of Ash - Limit 2g/m2/month
7
6
5
4
3
2
1
0
Jan-17
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May-17
Jul-17
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Feb-23
Apr-23
Jun-23

APPENDIX G – UPDATE LETTER TO RESIDENTS

1668 Wyrallah Road, Tuckurimba NSW 2480
Phone: 02 6622 0886
www.richmondquarry.com.au

25 November 2019

Dear Resident/s,

RE: RICHMOND QUARRY UPDATE

Richmond Quarry wishes to advise that the Quarry has currently suspended Quarrying operations onsite. Operations were suspended at 5pm on Wednesday the 22nd of May 2019.

Whilst no quarrying of rock is currently occurring onsite, there are very limited stockpiles of previously quarried rock available for sale onsite. This stockpiled rock is loaded onto customer transport via a single onsite loader when required.

The quarry is committed to meeting the onsite environmental requirements as required in the Site Project Approval 09_0080 and Environmental Protection Licence 20562. The site continues to regularly upload environmental monitoring results onto the Richmond Quarry Website www.richmondquarry.com.au to communicate the results to the community.

Should you have any queries or require any further information relating to the Quarry, please do not hesitate to contact Matt Duff (Quarry Manager) on 02 6622 0886 or by email on info@richmonmdquarry.com.au.

Yours faithfully

Michael Barnes
Commercial Manager
Richmond Quarry

APPENDIX H – LETTER TO CCC MEMBERS

22/03/2023

Dear Reader

RE: TEMPORARY SUSPENSION OF COMMUNITY CONSULTATIVE COMMITTEE MEETINGS

As you are aware Richmond Quarry entered care and maintenance in May 2019, a Community Consultative Committee meeting has not been undertaken since entering care and maintenance. Richmond Quarry has continued to maintain compliance with the conditions of the project approval since entering care and maintenance. As such Richmond Quarry was required to complete an Independent Environmental Audit by the 30th of September 2022. The audit was completed by GHD.

Corrective Action Request number 6 of the 2022 Independent Environmental Audit required Richmond Quarry to receive approval from the Department of Planning and Environment that the suspension of the Community Consultative Committee meeting since entering care and maintenance is acceptable. Richmond Quarry requested approval from the Department of Planning and Environment on the 13th of December 2022 (Appendix A). This request was approved by the Department of Planning and Environment on the 31st of January 2023 with the condition that the Community Consultative Committee is advised of the temporary suspension (Appendix B).

The purpose of this letter is to advise you as a member of the Richmond Quarry Community Consultative Committee that the temporary suspension of meetings has been approved. Richmond Quarry will re-commence holding Community Consultative Committee meetings in line with the applicable guideline upon recommencement of operations. Richmond Quarry will continue to maintain the website and associated uploads to ensure key information is available to Community Consultative Committee and the general public.

Should you have any questions please call Conor Ryan-McGinn on 02 6674 7656 or at compliance@solo.com.au

Yours faithfully,

Steve Scifleet

QSE Manager

Richmond Quarry
ABN: 22 935 038 463

1668 WYRALLAH ROAD
TUCKURIMBA, NSW 2480
PO Box 642
LISMORE, NSW 2480

Accounts : 02 66220886
Sales: 0439 282 151
info@richmondquarry.com.au