RICHMOND QUARRY

Annual Review 2019
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
DPI&E	NSW Department of Planning, Industry and Environment.
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 2019 calendar year

1.0 TITLE BLOCK

Name of operation	Richmond Quarry
Name of operator	GSQ Holdings 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 2019
Annual Review end date	31 December 2019

I, Michael Barnes, 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 2019 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	Michael Barnes
Title of authorised reporting officer	Commercial Manager
Signature of authorised reporting officer	
Date	31/03/2020

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 2019 to 31 December 2019.

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, 7.0
	(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 E
	(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
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.	Appendix D

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 extensive 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 extensive 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. Following this date only existing stockpiled materials were transported from the site to reduce the size / volume of the stockpiles. No processing of quarried materials was conducted post the suspension of the quarry.

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	None

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 F. All photographs were taken in March 2020.

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
Russell Currie	Environment & Quality 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 year.

Table 4: Production Summary

Material	Approved limit (specify source)	Previous reporting period (2017 actual)	Previous reporting period (2018 actual)	Reporting Period 2019	Next reporting period (forecast)
Saleable Product	250,000 t (MP 09_0080)	42,285.84 t	29,823.73 t	53,515.50 t	Currently suspended

Table 5: Tonnes Sold Monthly

Month	Tonnes Sold
January 2019	4,144.83
February 2019	8,828.58
March 2019	7,807.15
April 2019	3726.05
May 2019	24897.49
June 2019	2270.05
July 2019	232.45

Month	Tonnes Sold
August 2019	442.8
September 2019	253.40
October 2019	52.4
November 2019	553.6
December 2019	306.70
Annual Total	**53,515.50**

Annual production data for each financial year is reported to the Department of Planning, Industry and Environment's (DPI&E) Division of Resources and Geosciences (DRE). A copy of the form submitted to the DRE for the 2018/2019 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 2019

3.2.1 OPERATIONAL EXTENT

During 2019 quarry operations occurred predominantly within Progression 1 of the Southern Extraction Area. The Central Extraction Area is used as a sale and stockpile area for product loading prior to transport. The operational boundaries and disturbance footprint is shown in Appendix A, Figure 3.

On Wednesday the 22nd of May 2019 Richmond Quarry suspended quarrying activities onsite. Following this date only existing stockpiled materials were transported from the site to reduce the size / volume of the existing stockpiles. No processing of quarried materials was conducted post the suspension of the quarry. Company management are in the progress of determining the future plans for the quarry in the longer term.

3.2.2 OPERATIONS COMPLETED

A storage, maintenance and equipment shed was constructed on-site for the storage of bunded chemicals in accordance with AS1940-2004 in 2018. A self bunded fuel tank was installed on-site for refuelling onsite.

3.2.3 SAND WASHING PLANT

Until suspension, the Sand Washing Plant continued to operate in the northern quadrant of the southern extraction area following Modification 3 in August 2017.

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 1,863 truck dispatches from the site were recorded during the reporting period. Further discussion on truck movements is detailed within Section 10.0.

3.3 OPERATIONS TO BE CARRIED OUT DURING 2020

Richmond Quarry is currently not operating and due to 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) may be constructed, vegetated and planted with native endemic shrubs and trees during 2020 in accordance with the Landscape Management Plan.

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
None		

5.0 ENVIRONMENTAL PERFORMANCE

5.1 NOISE

During 2019, Richmond Quarry operated in accordance with the Site's Noise Management Plan V2.1. Under normal operating conditions noise monitoring is performed on a quarterly basis to ensure the below approved criteria from the Project Approval 09_0080 and EPL 20562 are met. Noise monitoring was completed for Quarter 1 only in 2019. Due to the suspension of Quarrying operations on the 22nd of May 2019 Richmond Quarry applied to the DPI&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.

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	

Noise results for 2019 are provided in Table 9 and available on the Richmond Quarry website.

All noise monitoring is performed by a suitably qualified consultant to ensure operational noise is correctly recorded. In the event of any noise exceedance, follow up noise monitoring will be conducted when required and affected landowners will be notified. Exceedances in the noise criteria will be appropriately addressed by quarry management through the implementation of mitigation measures including changes to quarry operations or the implementation of noise reducing equipment.

Project Approval 09_0080 requires annual sound power testing of site equipment. This was performed once in 2019. Due to the suspension of the quarrying activities onsite, no sound power testing was completed after quarter 1 2019 as there was no operating quarrying occurring onsite after this date.

The sand washing plant was commissioned in 2018, no noise complaints have been received in relation to the operation of the sand washing plant.

Table 9: Noise Monitoring Results for Richmond Quarry

Date	Location	Type of Noise Monitoring	Relevant Criteria	Result	Compliant/ Non-Compliant	Noise Monitoring Conducted By
20/03/2019		NAL 2A (3)	Routine Quarterly	36.1	<37	Compliant
20/03/2019		NAL 3	Routine Quarterly	32	<37	Compliant
20/03/2019	Sound Power Level (SPL) On-site Plant and Equipment	Metso LT106 Jaw Crusher	SPL	102.7	SPL	Consultant
		Dozer D10 - Single Tyne Ripper Sandstone	SPL	108.8	SPL	Consultant
		Dozer D10 - Pushing Up Material	SPL	105.3	SPL	Consultant
		Maxtrax Cone Crusher - 10/30 Rear	SPL	104.4	SPL	Consultant
		Maxtrax Cone Crusher - 14/45 Front	SPL	103.7	SPL	Consultant
		Maxtrax Cone Crusher - 14/70 Front	SPL	102.4	SPL	Consultant
		Maxtrax Cone Crusher - 11 Opposite	SPL	101.8	SPL	Consultant

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 Appendix 1, Figure 4 Environmental Monitoring Locations. The location of the dust bottle was moved in 2018 due to the previous location being not on quarry land. There were no issues or concerns with the new location in 2019.

Table 10 provides the dust monitoring results from 2019. The dust results showed no exceedances in the trigger values.

In November no result was recorded due to a scheduling error during the Quarry Managers annual leave period where the bottle was not replaced when the October bottle was removed for analysis. The importance of the continuance of environmental procedures during employee leave was reinforced with Quarry management.

Table 10: Monthly Dust Monitoring Results for Richmond Quarry

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 19	31	-	0.040L	0.2	5	0	0.2
Feb 19	29	-	0.700L	1.3	45	0.9	0.4
Mar 19	31	Organic Matter	3.22L	0.9	31	0.1	0.8
Apr 19	29	Organic Matter	1.270L	0.4	12	0.1	0.3
May 19	30	Fine Organic Matter	0.76L	0.6	21	0.2	0.4
Jun 19	29	Organic Matter	3.63L	1.2	40	0.1	1.1
Jul 19	32	Cloudy Fine Organic Matter	0.180L	0.3	11	0.2	0.1
Aug 19	30	Ants, Fine Organic Matter	0.10L	0.4	15	0.3	0.1
Sept 19	30	Ants, Fine Organic Matter	0.20L	1.2	40	0.7	0.5
Oct 19	31	-	0.20L	0.2	6	0.1	0.1
Nov 19	-	Bottle Not Replaced On Time	-	-	-	-	-
Dec 19	31	Fine Organic Matter, Ants, Beetle	0.80L	0.8	27	0.7	0.1

5.3 HERITAGE (ABORIGINAL AND NON-ABORIGINAL)

Heritage management conditions are covered under Conditions 34, 35 and 36 of Project Approval 09_0080. Throughout 2019, site activities operated within the operational footprint shown in Figure 2 in Appendix A. No Aboriginal or non-aboriginal heritage items were detected throughout site operations in 2019. Previous cultural heritage investigations on-site have not detected any Aboriginal or non-aboriginals heritage items in the area.

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.
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	During 2019, the site operated under the Heritage Management Plan (Versions 2.0 and 2.1).

	values on site. The Proponent must implement the approved management plan as approved from time to time by the Secretary.	

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 operational water requirements.

5.4.2 WATER DISCHARGES

A controlled discharge (by pump at the release point) occurred at MP6 during August 2019. The water quality was tested prior and during the release. The release was conducted in accordance with the sites Environmental Protection Licence EPL20562 and Site Water Management Plan. The details of the discharge monitoring results are detailed in Table 12 below.

Table 12: MP6 Water Discharge Records

Date	Pretest or Release	PH >6.5 or <8.5	Suspended Solids	Oil & Grease	Comments
12/08/2019	Pretest	6.93	2	<2	Satisfactory
13/08/2019	Release	7.43	4	<2	Satisfactory
14/08/2019	Release	7.22	3	13	Oil and Grease high most likely to be an anomaly due to visual inspection showing no evidence oil or grease and all other samples taken from same water body reading less than 2.
16/08/2019	Release	7.99	7	<2	Satisfactory
26/08/2019	Pretest	7.04	1	<2	Satisfactory
27/08/2019	Release	6.98	<1	3	Satisfactory

5.4.3 SITE WATER BALANCE

During 2019, operational water was used on-site for dust suppression and truck washing. This water was sourced from the site's Water Reuse Dam that has a 40 ML capacity which is significantly greater than the sites current water requirements. No specific records were kept in relation to the use of water onsite, the demand was managed on a weekly basis to ensure the water level in the water reuse dam did not exceed freeboard.

Employees use potable water delivered to a tank located beside the lunch room building. Employees utilise a portable toilet that is serviced regularly by a licenced operator.

The sand washing plant was commissioned during 2018 and continued to be used until 22 May 2019. The processing of sand utilises water from the water reuse pond. All process water is returned to the water reuse pond following the reduction of the sediment load in the 1ml processing ponds.

In addition, the operation of the sand washing plant and ancillary activities has increased the surface disturbance area of the site by approximately one hectare (Figure 3 Appendix A). As stated in the Water Management Plan, the existing Water Reuse Dam has the capacity to adequately accommodate this increase in the site's disturbance footprint.

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, Appendix A. A summary of the results from the surface water monitoring conducted in 2019 is detailed in Table 15 and the detailed results are located in Appendix E Table 1 and 2. Graphs of the monitoring results are shown in Appendix G.

5.4.6 CHANGES TO SURFACE WATER MONITORING LOCATIONS

Unfortunately Richmond Quarry no longer has access to Monitoring Points MP3 and MP4 as detailed in Table 14 below. The landowner where MP3 and MP4 are located has denied access to these points in writing. Richmond Quarry has made changes to the existing environmental monitoring program to ensure that any impacts from quarry operations to the environment on-site

and the surrounding areas is still captured on an ongoing basis within areas that can be accessed. The changes are detailed below in Table 14 and can be viewed on Figure 4, Appendix A.

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 – on-site watercourse. Removed.~~	~~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 discharge point on the north-western corner.	Weekly

Table 14: Changes to Surface Water Monitoring Locations

Monitoring Point	Description	Action	Reasoning
MP3	Tucki Tucki swamp downstream of MP4 and quarry operations	Remove monitoring point	MP3 is located downstream of MP4. Any surface water contamination issues arising from quarry operations will be picked up upstream at MP4. The removal of MP3 as a downstream monitoring point should not detract from the overall surface water monitoring program of the site. In case of a significant contamination event, MP2 is used to monitor further downstream of MP3. It is also noted that MP3 is regularly dry, with only 2 samples of monitoring data able to be obtained since monitoring began in 2014.
MP4	Adjacent to quarry land within Lot 2 DP1191905	Adjacent to previous monitoring point – moved to within Lot 5 DP1191905	MP4 has been relocated a short distance upstream of the current monitoring point onto Lot 5 DP1191905. The change of location should result in negligible change to the monitoring data obtained by the existing monitoring point. The upstream change should assist in reducing contamination from cow manure in the stream at the existing downstream location.

Table 15: 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: • During 2019 MP3 and MP4 had insufficient water to take samples during the four monitoring periods.				
pH (units)	-	6.5-8.5	MP5	Historical pH levels have consistently been recorded as low within MP5. The washing of sand onsite may have influenced the reduction of pH levels in the Reuse Pond to under 5 during 2018 and quarter 1 2019. To address this drop in pH Agricultural Lime was added to the pond to increase the ponds pH to above 6.5 to meet the sites trigger value. The establishment of site specific trigger levels will assist in defining pH levels more reflective of the local conditions. MP5 is the same location as MP7 within the site's Water Reuse Dam. The dam pH is routinely monitored on a weekly basis as MP7, with a discussion on the results provided further below.
Conductivity	(dS/m)	0.350	Meets standards	All surface water monitoring points were below the criteria for conductivity.
Nitrate (NO_3)	(mg/L)	0.7	Meets standards	All surface water monitoring points were below the criteria for nitrate.
Aluminium (Al)	(mg/L)	0.055	MP1, MP2 and MP5	During 2019 MP1, MP2 and MP5 experienced Aluminium levels that were above the ANZECC Guidelines. MP1 is an upstream monitoring point, with no impact from quarry operations. The high levels in MP2 is consistent with the data collected in the previous years and with baseline data collected from 2008 and Environmental Assessment predictions. There was no flow of water from the Quarry that could influence the water quality at MP1 and MP2 at this time. Historical observations of Aluminium in MP5 have shown levels that are above the ANZECC Guidelines. Following the addition of Agricultural Lime to the Reuse Pond in Quarter 4 2019, the Aluminium levels dropped to a four year low of below 0.25mg/L. The Aluminium levels will be continued 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.

Parameters Analysed	Unit	ANZECC 2000 Trigger Values for Freshwater	Monitoring Points not meeting standards	Reasoning / Actions Taken
Cadmium (Cd)	(mg/L)	0.0002	Analysis to three decimal places not four - MP5	MP1 and MP2 in Quarter 3 2019 were above the trigger value for Cadmium of 0.0002mg/L. There was no flow of water from the Quarry that could influence the water quality at MP1 and MP2 at this time. All other surface water monitoring points were equal to or within the trigger value for Cadmium during the year.
Total Chromium (Cr)	(mg/L)	Not Specified[1]	Meets standards	MP1 and MP2 in Quarter 1 and Quarter 3 2019 were above the trigger value for Total Chromium of 0mg/L. There was no flow of water from the Quarry that could influence the water quality at MP1 and MP2 at these times. All other surface water monitoring points were within the trigger value for Total Chromium for the year.
Copper (Cu)	(mg/L)	0.0014	MP1, MP5	During Quarters 1, 2 and 3 2019, MP5 experienced Copper levels that were above the ANZECC Guidelines. The high level at MP5 may be related to the testing and operation of the Sand Washing Plant onsite in 2018 and Quarter 1 and part of Quarter 2 2019. Following the addition of Agricultural Lime to manage pH, and the suspension of the sand plant operation in May the results of Quarter 2, 3 and 4 showed a declining level of Copper at MP5. The results of Quarter 4 were well within the threshold for Copper. Copper levels will be continued to be monitored and further investigations will be initiated in the event that the levels rise above previous observed levels.
Mercury (Hg)	(mg/L)	0.0006	Meets standards	All surface water monitoring points were below the criteria for mercury.
Nickel (Ni)	(mg/L)	0.011	Meets standards	During Quarters 1, 2 and 3 2019, MP5 experienced higher Nickel levels than recently measured. These levels were well below the ANZECC Guidelines. The increased levels at MP5 may be related to the testing and operation of the Sand Washing Plant onsite in 2018 and Quarter 1 and part of Quarter 2 2019. Following the addition of Agricultural Lime to manage pH, and the suspension of the sand plant operation in May the results of Quarter 3 and 4 showed a declining level of Nickel at MP5. The results of Quarter 4 were lower than the previous 3 quarters. Nickel levels will be continued to be monitored and further investigations will be initiated in the event that the levels rise above previous observed levels.

Parameters Analysed	Unit	ANZECC 2000 Trigger Values for Freshwater	Monitoring Points not meeting standards	Reasoning / Actions Taken
Lead (Pb)	(mg/L)	0.0034	Meets standards	During Quarter 1 2019, MP5 showed a minor increase above the ANZECC Guideline for Lead. The increase level at MP5 may be related to the testing and operation of the Sand Washing Plant onsite in 2018 and Quarter 1 and part of Quarter 2 2019. Following the addition of Agricultural Lime to manage pH, and the suspension of the sand plant operation in May the results of Quarter 2, 3 and 4 showed a significant decrease of Lead that well within the ANZECC threshold. Lead levels will continued to be monitored and further investigations will be initiated in the event that the levels rise above previous observed levels.
Zinc (Zn)	(mg/L)	0.008	MP5	During Quarters 1, 2 and 3 2019, MP5 experienced Zinc levels that were above the ANZECC Guidelines. The high level at MP5 may be related to the testing and operation of the Sand Washing Plant onsite in 2018 and Quarter 1 and part of Quarter 2 2019. Following the addition of Agricultural Lime to manage pH, and the suspension of the sand plant operation in May the results of Quarter 3 and 4 showed a declining level of Zinc at MP5. The results of Quarter 4 were well within the threshold for Zinc. Zinc levels will continue to be monitored and further investigations will be initiated in the event that the levels rise above previous observed levels.
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 4.22-7.99 during 2019. Historical pH levels have consistently been recorded as low within MP7. The washing of sand onsite may have influenced the pH levels in the Reuse Pond to make the pH under 5. To address this drop in pH, Agricultural Lime has been added to the pond to increase the ponds pH to above 6.5 to meet the sites trigger value. Addressing the pH in the pond may also assist in dropping metals out of the pond water. Ceasing sand washing operations in May 2019 and a subsequent low rainfall period assisted to maintain and stabilise the pH level during Quarters 3 and 4 2019.

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.

5.4.7 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
~~11~~	~~Groundwater level only – windmill/bore~~	~~Quarterly~~
12	Groundwater level and quality monitoring – previously BH7	Quarterly

Available Groundwater bores were sampled on a quarterly basis during 2019. MP8 and MP11 were not able to be sampled due to no access to the area.

A summary of the results from the groundwater monitoring conducted in 2019 is detailed in Table 18 and the detailed results are located in Appendix E Table 3. Graphs of the monitoring results are shown in Appendix G.

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 2019, excluding pH and Aluminium at MP10, groundwater monitoring data met the criteria for the NHMRC Drinking Water Guidelines and only minor exceedances were recorded against the ANZECC trigger values. 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.

5.4.8 CHANGES TO GROUND WATER MONITORING LOCATIONS

Unfortunately Richmond Quarry no longer has access to Monitoring Points MP11 and MP8 as detailed in Table 17 – Overview of Monitoring Locations and Frequency. The landowner where MP11 and MP8 are located has denied access to these points in writing. Richmond Quarry has made changes to the existing environmental monitoring program to ensure that any impacts from quarry operations to the environment on-site and the surrounding areas is still captured on an ongoing basis within areas that can be accessed. The changes are detailed below in Table 17 – Changes to Ground Water Monitoring Locations and Figure 4 of Appendix A - Proposed Changes to Environmental Monitoring Locations.

Table 17: Changes to Ground Water Monitoring Locations

Monitoring Point	Description	Action	Reasoning
MP11	Windmill within Lot 2 DP1191905	Remove monitoring point	MP11 is used to measure the groundwater height only and due to contamination issues is unsuitable to be used for groundwater quality monitoring. MP11 is now outside of the quarry land and is not permitted to be accessed by the land owner. In 2015 MP12 was added to the site's monitoring program to monitor the height and quality of downstream groundwater in lieu of – MP11. The addition of MP12 to the site's groundwater monitoring program removed the requirement for the height levels to be monitored at MP11.
MP8	East of quarry operations	Remove monitoring point	Access is no longer permitted on the surrounding quarry land, including Lots 2 and 3 of DP 1191905. As a result, Richmond Quarry staff no longer have access to MP8 for groundwater monitoring. MP10 is located south of MP8 and will continue to be monitored to assess the areas groundwater quality and level.

Table 18: 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	MP9, MP10, 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 2019 has not changed significantly from previous years with result ranges provided below: • MP9: pH 5.28 – 5.45 • MP10: pH 4.36 – 4.45 • MP 12: pH 5.34 – 6.05 MP12 was established in 2015 and initially recorded pH levels within the ANZECC Guidelines, however these have since stabilised at a lower range of 5.34-6.05 during 2019, reflective of the lower groundwater pH recorded in the surrounding area. The Environmental Assessment noted that the pH of nearby soil and receiving waters are mildly acidic pH 4.5 – pH 5.3. The natural acidic soil conditions encountered at the Site and subsequent influence on groundwater may require that maintenance of ambient condition is the preferred water quality goal rather than the neutral conditions set out in the ANZECC Guidelines. 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	MP12	The conductivity values for MP12 have mostly remained over the ANZECC Guidelines for freshwater since sampling commenced. MP9 and MP10 has consistently remained below the nominated criteria. MP9 did not provide a sample in Quarter 3 due to a dry well. These values will be continued to be monitored and further investigations will be initiated in the event that the conductivity levels continue to rise above previous observed levels.
Nitrate (NO_3)	(mg/L)	0.7	50	Meets standards	All groundwater monitoring bores were below the criteria for Nitrate.
Aluminium (Al)	(mg/L)	0.055	0.2	MP10	During 2019, the Aluminium levels in MP9 and MP12

Parameters Analysed	Unit	ANZECC 2000 Trigger Values for Freshwater	NHMRC Drinking Water Guidelines	Monitoring Points not meeting standards	Reasoning / Actions Taken
					consistently were within the ANZECC Guidelines. MP10 did not meet the ANZECC Guidelines in all Quarters. The Aluminium levels recorded at the groundwater bores during 2019 are relatively consistent with previous historical monitoring data.
Total Arsenic (As)	(mg/L)	0.024	0.01	Meets standards	All groundwater monitoring bores were below the criteria for arsenic.
Cadmium (Cd)	(mg/L)	0.0002	0.002	MP10	During 2019, the Cadmium levels predominantly met the ANZECC criteria. In Quarter 3 MP10 exceeded the criteria for Cadmium. This individual result did not reflect the historical trend for Cadmium. In Quarter 4 MP10 was again under the criteria.
Total Chromium (Cr)	(mg/L)	Not Specified[1]	0.054	Meets standards	All groundwater monitoring bores were below the criteria for Chromium.
Copper (Cu)	(mg/L)	0.0014	2	MP10, MP12	During 2019, the Copper levels for MP10 and MP12 exceeded the ANZECC 2000 trigger values in all four quarters. For MP9 Quarter 1, 2 and 4 were below the trigger value in the ANZECC guidelines. MP9 did not provide a sample in Quarter 3 due to a dry well. In the fourth quarter MP10 and MP12 were uncharacteristically high compared to historical results. Copper levels will be continued to be monitored and further investigations will be initiated in the event that the levels rise above previous observed levels.
Mercury (Hg)	(mg/L)	0.0006	0.001	Meets standards	All groundwater monitoring bores were below the criteria for Mercury.
Nickel (Ni)	(mg/L)	0.011	0.02	Meets standards	All groundwater monitoring bores were below the criteria for Nickel.
Lead (Pb)	(mg/L)	0.0034	0.01	Meets standards	All groundwater monitoring bores were below the criteria for Lead.
Zinc (Zn)	(mg/L)	0.008	3	MP9, MP10, MP12	During 2019, the Zinc levels for MP10 and MP12 exceeded the ANZECC 2000 trigger values in all four quarters. For MP9 Quarters 1, 2 and 4 were above the trigger value for the ANZECC guidelines. MP9 did not provide a sample in Quarter

Parameters Analysed	Unit	ANZECC 2000 Trigger Values for Freshwater	NHMRC Drinking Water Guidelines	Monitoring Points not meeting standards	Reasoning / Actions Taken
					3 due to a dry well. MP9 results were variable however within the limits of previous historical monitoring data. MP10 and MP12 testing showed exceedances for Zinc in all four quarters. The results for MP12 was uncharacteristically high compared to historical levels. Zinc levels will be continued to be monitored and further investigations will be initiated in the event that the levels rise above previous observed levels.

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 (v 3.1) 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 19 below.

In the last quarter of 2018 and the first quarter of 2019 site rehabilitation was undertaken to a small area to the South East of Biodiversity Offset Area 1 as indicated in Appendix A Figure 5 Indicative Rehabilitation Area 2018-2019. This area was rehabilitated as the disturbance is close to Biodiversity Offset Area 1 and the area in no longer required for access purposes.

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.

Table 19: 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, 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 31st of August 2018. The Department of Planning and Environment reviewed the submission and was satisfied with submission approving the Conservation and Rehabilitation Bond. Final lodgement of the bond was made on the 16th of October 2018.

8.0 COMMUNITY

8.1 COMMUNITY CONSULTATIVE COMMITTEE

In accordance with Condition 6(5), Richmond Quarry has a Community Consultative Committee (CCC) to provide a mechanism for open and effective communication with local community members. The CCC held a meeting on 24 September 2018 to discuss site operations, complaints and the transition from Champions Quarry to Richmond Quarry. A copy of the CCC 2018 meeting minutes is publicly available on the Richmond Quarry website.

Due to the suspension of quarrying operations on 22 May 2019 the Richmond Quarry did not hold a committee meeting during 2019. 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. A copy of community letter is shown in Appendix H.

No community contributions were made during 2019.

8.2 COMPLAINTS REGISTER

Richmond Quarry maintains a complaints register that is publicly available on the Richmond Quarry website. During 2019, there were 4 complaints made to the quarry.

- Complaint 1: First complaint was in relation to a suspected breach in consent conditions relating to haulage routes. Richmond Quarry requested details of haulage routes, however these details were unable to be provided by the complainant.
- Complaint 2: Complaint was received by the Department of Planning, Industry and Environment from an anonymous person. Concerns were raised in regard to water quality, noise monitoring, and currency of website information. Richmond Quarry responded to the Department highlighting where the information can be found on the website. No further investigation was required.
- Complaint 3: Third complaint was received by the Department of Planning, Industry and Environment from an anonymous person. Concerns were raised in relation to truckloads leaving site around the 4th of November. It was also noted that excavation works could be heard from the topside of the quarry. Richmond Quarry responded to the department with detailed information regarding the complaints. No further investigation was required.
- Complaint 4: Fourth complaint was received by the Department of Planning, Industry and Environment from an anonymous person. Concerns were raised in relation to a Frontend Loader onsite spreading material to a neighbouring property. Richmond Quarry responded to the department with detailed information regarding the complaint. No further investigation was required.

9.0 INDEPENDENT ENVIRONMENTAL AUDIT

In 2018 an Independent Environmental Audit was conducted by GHD. As per the Project Approval 09_0080, an Independent Environmental Audit (IEA) is required to be completed every three years.

The *Independent Environmental Audit Report, December 2018* and *Response to Recommendations* are available on the Richmond Quarry website. Appendix C addresses progress of the Response to Audit Recommendations from the 2018 Audit.

10.0 STATEMENT OF COMPLIANCE

Table 20: Statement of Compliance

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

11.0 NON COMPLIANCE

In 2019 there was 7 non compliances recorded relating to the number of truck movements in an hour / day at the quarry and a single non compliance recorded when dust monitoring was not completed for the Month of November. A summary of these non-compliances is provided in Table 21.

Table 21: Non Compliance Summary

Relevant Approval	Condition #	Condition Description (summary)	Compliance status	Comment	Where addressed in Annual Review
MP 09_0080	Condition 9, Schedule 2	Number of daily truck movements to 50 and only permits 5 truck movements to occur in any one hour.	Non-compliant	5 Instances where more than 5 truck movements were recorded within a 1 hour period.	Section 11.1
MP 09_0080	Condition 9, Schedule 2	Number of daily truck movements to 50 and only permits 5 truck movements to occur in any one hour.	Non-compliant	2 Instances where more than 50 trucks were recorded in a day.	Section 11.1
MP 09_0080	Condition 10, Schedule 3	Air quality monitoring to be completed every 30 days +- 2 days.	Non-compliant	1 instance in November where the dust monitoring bottle was not placed out on site for 30 days +- 2 days.	Section 5.2

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)

11.1 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

In total there were 5 instances where there were more than 5 truck movements within 1 hour during the reporting period (Table 22). The hourly truck movements limits were reinforced to the site employees by the quarry manager.

Daily Truck Movements

During 2019 there were 2 instances when more than 50 trucks were dispatched in a day (Table 23). The daily truck movement limits were reinforced to the site employees by the quarry manager.

11.2 OPERATING HOURS

During the reporting period, there was no non-compliance in the permitted operating hours of the site. Saturday's reduced operating hours of 8 am to 1 pm along with the standard weekday operating hours of 7 am to 6 pm continued to be reinforced to employees through toolbox meetings.

11.3 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. A summary of the records of truck dispatches departing the site is available in Appendix D. Overall; there were 1,863 truck dispatches from the site during the reporting period. There was no non-compliance in regard to Condition 30A, Schedule 3 in 2019.

Table 22: Truck dispatch greater than 5 trucks per hour

Date	Time	Number of truck dispatched	Reason
08/05/2019	4 – 5 PM	6 Trucks	Count error
21/05/2019	8 – 9 AM	6 Trucks	Count error
22/05/2019	12 -1 PM	6 Trucks	Count error
23/05/2019	8 – 9 AM	6 Trucks	Count error
28/05/2019	11–12 AM	6 Trucks	Count error

Table 23: Truck dispatch greater than 50 trucks per day

Date	Number of truck dispatched	Reason
08/05/2019	51 Trucks	Count error
21/05/2019	51 Trucks	Count error

APPENDIX A

Figure 1: Richmond Quarry – Regional Location

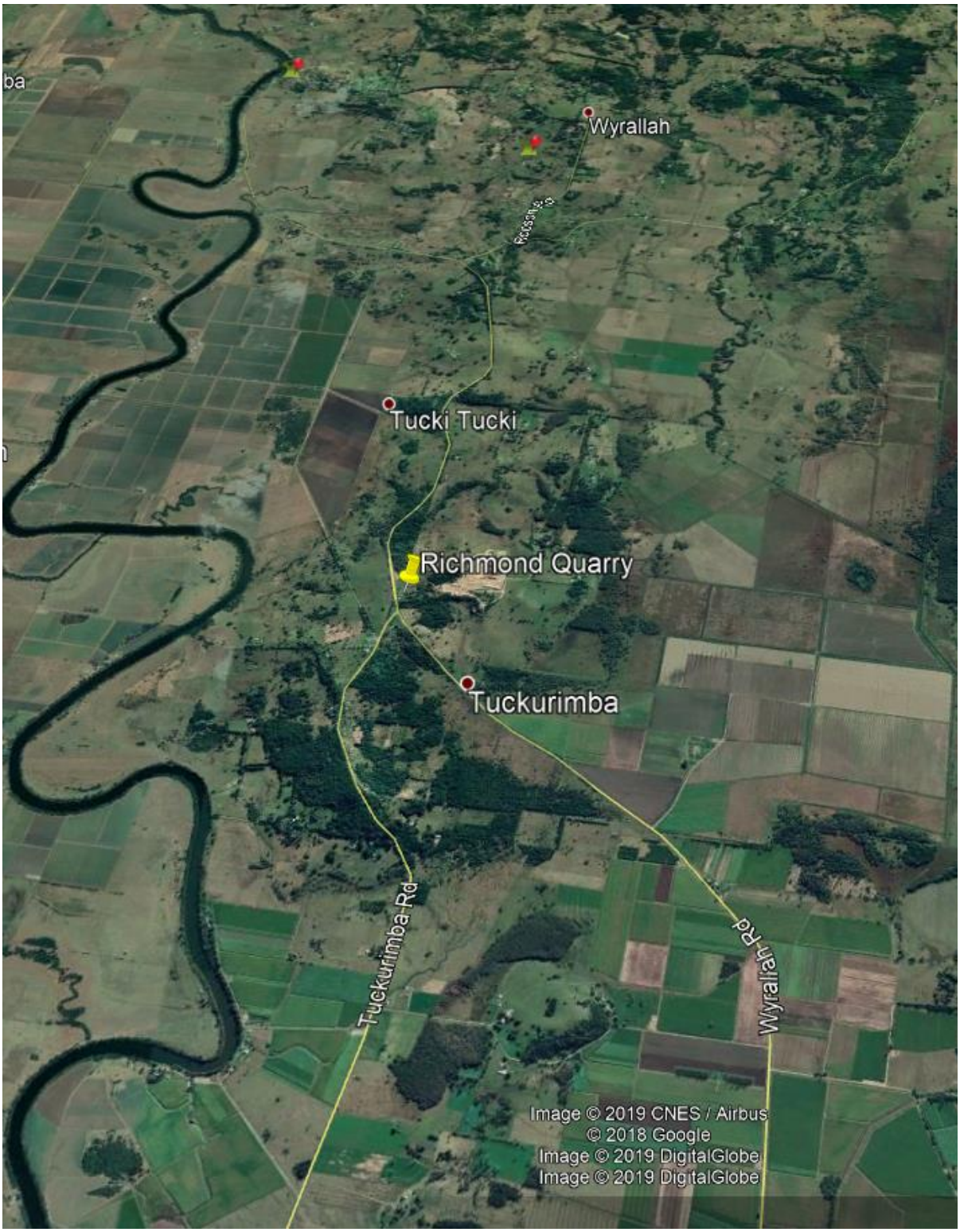


Figure 2: Project Layout (extract from Appendix 6 of Project Approval 09_0080)

Figure 3: Disturbance Footprint 2019

Figure 4: Environmental Monitoring Locations

Figure 5: Indicative Rehabilitation Area 2018/2019

www.richmondquarry.com.au

APPENDIX B

Production Data for the 2018/2019 Financial Year

Form S 1

Planning, Industry & Environment

RETURN FOR EXTRACTIVE MATERIALS: YEAR ENDED 30 JUNE 2019

Quote RIMS ID in all correspondence

Quarry Id:	Rims ID: 400494
Operators Name:	GSQ HOLDINGS PTY LTD
Address:	PO BOX 642 LISMORE NSW 2480
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@planning.nsw.gov.au Postal Address (see below)

Please amend name, postal address and location of mine or quarry if incorrect or incomplete.

2018-2019

The return should be completed and forwarded to **Senior Advisory Officer, RESOURCE ECONOMICS, RESOURCE PLANNING & PROJECTS, NSW DEPARTMENT OF PLANNING, INDUSTRY & ENVIRONMENT, PO BOX 344 HUNTER REGION MAIL CENTRE NSW 2310 on or before 31 October 2019**. 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, Resource Planning & Projects

Please complete all of 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
Email Address of Operator	compliance@solo.com.au; info@richmondquarry.com.au
Name of Owner or Licensee	GSQ HOLDINGS PTY LTD
Postal Address of Licensee	PO Box 642 Lismore NSW 2480

Licence/Lease Number/s (if any)

From Mineral Resources NSW (Industry & Investment NSW)	N/A
From Department of Lands or other 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** 08/10/19
- **CONTACT PERSON for this return** MR MICHAEL BARNES
- **NAME** (Block letters) MR MICHAEL BARNES **Telephone** (02) 6621 7431

SALES During 2018-2019

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	SANDSTONE	510.48
Over 30mm to 75mm		
5mm to 30mm	SANDSTONE	780.71
Under 5mm	WASHED SANDSTONE	16,762.41
Natural Sand		
Manufactured Sand		
Prepared Road Base & Sub Base	SANDSTONE ROAD BASE	22,204.17
Other Unprocessed Materials	OVERBURDEN	22,820.99
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)	9,542.80
• **TOTAL SITE PRODUCTION**		**72,621.56**
• **Gross Value ($) of all Sales**		$1,033,404
• **Type of Material**	SANDSTONE	
• **Number of Full-Time Equivalent (FTE) Employees**	Employees: 5	Contractors 0

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

APPENDIX C

Response to 2018 Independent Environmental Audit Recommendations

Table A: Corrective Actions

#	Condition	Corrective Action	Response	Timeframe	Progress	Completion
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 has engaged a building certifier to obtain the necessary approvals to comply with the Building Code of Australia.	Initial: 31 March 2019 Revised: On hold due to suspension of quarry activities.	Building certifier engaged to manage building approvals. Initial inspection of buildings complete.	
CAR 2	Project Approval, Condition 2, Schedule 3	Install boundary pegs that are clear and permanent, so limits of extraction areas are easy to identify	Surveyor to checked and replace any missing pegs in the Southern and Central Extraction Areas onsite. Site to install coloured PVC Pipes to enable easy identification and protect the locations of survey pegs onsite.	Completed	Surveyor has checked and replaced missing pegs in Southern and Central Extraction Areas onsite. Coloured PVC pipes in have been installed.	Completed
CAR 3	Project Approval, Condition 6, Schedule 3	Reinforce operating hours to employees	Toolbox Meeting to be held to reinforce operating hours to site employees.	Completed	Completed.	Completed
CAR 4	Project Approval, Condition 16, Schedule 3	Store chemicals in accordance with Condition 16, Schedule 3	• Chemicals and Petroleum to be stored in accordance with Australian Standard AS1940-2004, The Storage and Handling of Flammable and Combustible Liquids. • Additional bunds to be obtained to ensure all liquids are bunded and to prevent crowding. • Obtain a large bund adequate to store the waste oil IBC. • Ensure Chemicals and Petroleum storage has the required signage / placarding in place. • Obtain a designated spill kit for the chemical storage area.	Completed	Matt Duff has implemented changes to bunding and storage onsite. Correct segregation and signage / placarding completed.	Completed
CAR 5	Project Approval, Condition 19, Schedule 3	Obtain confirmation from the Secretary that they are satisfied with the works required by Condition 19, Schedule 3	• Current Quarry works completed by Richmond Quarry are currently restricted to the Progression 1 Area as defined in the Project Approval. • Obtain confirmation from the Secretary that DPI&E are satisfied with the construction of Bunds A – D.	Initial: 30 June 2019 Revised: On hold due to suspension of quarry activities.	• Russell Currie to obtain a plan of bunds in approval versus constructed onsite. • Matt Duff to address the requirement that the bunds are established and vegetated (with	

#	Condition	Corrective Action	Response	Timeframe	Progress	Completion
					grasses, native endemic shrubs and trees) and provide evidence. • Matt Duff to address the establishment of vegetated screening of planted trees to the north of the access road and provide evidence. • Russell Currie to write to DPI&E following collation of above evidence from Matt Duff.	
CAR 6	Project Approval, Condition 1, Schedule 4	Notify the affected landowners when exceedances of monitoring criteria occur	No Noise / Dust Exceedances have occurred since the change of ownership from Champions Quarry to Richmond Quarry. Per the Noise and Air Quality Management Plans any exceedances will be notified to the affected landholders in writing.	Completed	Completed	Completed
CAR 7	Project Approval, Condition 1A, Schedule 5	Where required by the conditions, provide evidence of consultation with public authorities, any comments and how the comments have been addressed, as per Condition 1A, Schedule 5	Provide evidence to the DPI&E showing consultation with public authorities, specifically where required by site consent / licence requirements.	Completed	Russell Currie wrote to DPI&E and provided evidence of consultation with public authorities.	Completed
CAR 8	Project Approval, Condition 2, Schedule 5	Notify the Secretary when exceedances of monitoring criteria occur	No Noise / Dust Exceedances have occurred since the change of ownership from Champions Quarry to Richmond Quarry. Per the Noise and Air Quality Management Plans any exceedances will be reported to the secretary.	Completed	Completed	Completed
CAR 9	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.	2018 Annual Review will be submitted by 31 March 2019 for the 2018 year. Annual review will be in accordance with Condition 4, Schedule 5 of the Project Approval.	Completed	Annual Review report submitted to DPI&E by 31 March 2019	Completed.
CAR 10	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	No Management Plan reviews have been required prior to the audit since the change of ownership from Champions Quarry to Richmond Quarry. Management plan reviews will be undertaken in accordance with Condition 5 of Schedule 5 of the Project Approval. Any Management Plan reviews that cannot be achieved within the 3 month period will	Completed	Completed	Completed

#	Condition	Corrective Action	Response	Timeframe	Progress	Completion
			require a request for extension to be submitted to the Secretary for approval.			
CAR 11	Project Approval, Condition 7, Schedule 5	Report incidents to the Secretary and other relevant agencies within seven days of the incident	No Noise / Dust Exceedances have occurred since the change of ownership from Champions Quarry to Richmond Quarry. Per the Noise and Air Quality Management Plans any exceedances will be reported to the secretary.	Completed	Completed	Completed

Table B: Recommended Actions

#	Condition	Recommendation	Response	Timeframe	Progress	Completion
REC 1	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.	The Air Quality Management Plan is to be reviewed and updated to include the revised dust monitoring location. A figure showing the new location to be provided in the plan.	Completed	Air Quality Management Plan revised to include the new dust monitoring location and a figure showing the monitoring location.	Completed
REC 2	Landscape Management Plan	Update the Landscape Management Plan to clarify what is required in regards to rehabilitation	Review and update the Landscape Management Plan to define the rehabilitation to be undertaken in relation to the updated site progression plans.	Initial: 30 September 2019 Revised: On hold due to suspension of quarry activities.		
REC 3	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	Review and update the Landscape Management Plan to accurately define the rehabilitation reporting and monitoring requirements for the site. Develop and implement monitoring and reporting forms.	Initial: 30 September 2019 Revised: On hold due to suspension of quarry activities.		
REC 4	Landscape Management Plan	Engage a surveyor to re-establish/re-mark the pegs delineating the rehabilitation areas	Surveyor to check and replace any missing pegs in the Biodiversity Offset Areas and the Protected Revegetation Area onsite. Site to install coloured PVC Pipes to enable easy identification and protect the locations of survey pegs onsite.	Completed	Surveyor has re-established /re-marked the pegs delineating the rehabilitation areas onsite. Placement of PVC	Completed

#	Condition	Recommendation	Response	Timeframe	Progress	Completion
					pipes completed.	
REC 5	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	Review and update the Noise Management Plan to include any updated noise management locations. Figure showing the monitoring locations to be included in the plan.	Initial: 30 September 2019 Revised: On hold due to suspension of quarry activities.		
REC 6	Transport Management Plan	Consult with RMS during the review of the Transport Management Plan	RMS to be consulted during the review / update of the transport management plan.	Initial: 30 September 2019 Revised: On hold due to suspension of quarry activities.		
REC 7	Transport Management Plan	Maintain the new truck monitoring system to ensure it captures all the information required and prevents further incidents in regards to truck movements	Transport Management Plan to be updated to include the revised truck monitoring system.	Initial: 30 September 2019 Revised: On hold due to suspension of quarry activities.		
REC 8	Waste Management Plan	Introduce a system to encourage recycling of waste products	A domestic recycling service is to be implemented to the site starting the 17th of December. Used oil filters will also be collected and recycled.	Completed	Domestic recycling service introduced onsite.	Completed
REC 9	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 take into account progression plans for the site.	Initial: 31 October 2019 Revised: On hold due to suspension of quarry activities.		
REC 10	Water Management Plan	Develop and implement a procedure to record that sediment basins are monitored and maintained appropriately	Weekly Surface Water Field Sheet IMS-ENVM-F-3746-RQ updated to monitor the condition of the surface water ponds onsite.	Completed	Weekly Surface Water Field Sheet IMS-ENVM-F-3746-RQ updated.	Completed
REC 11	Water Management Plan	Review erosion and sediment controls across the site to ensure that they provide adequate protection and are installed and maintained in accordance with DECC	Review the Water Management Plan sediment and erosion controls, ensure are installed and maintained in accordance with Managing Urban Stormwater Soils and Construction –	Completed	Site Erosion and Sediment Controls reviewed and improvement	Completed

#	Condition	Recommendation	Response	Timeframe	Progress	Completion
		2008	Volume 2e Mines and quarries (DECC, 2008) and EPL.		works completed onsite.	
REC 12	Project Approval, Condition 7, Schedule 2	Survey and peg the boundary of all approved Extraction Areas and the quarry floor on a periodic basis to demonstrate compliance with Condition 7, Schedule 2	Surveyor to checked and replace any missing pegs on the boundary of the approved extraction areas. Pegs to be placed near operational areas to mark the maximum extraction depth in the extraction areas.	Initial: 31 January 2019 Revised: On hold due to suspension of quarry activities.	Surveyors engaged to mark the extraction design and maximum extraction depth.	
REC 13	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.	Water Management Plan to be reviewed / updated to consider the onsite water balance.	Initial: 31 October 2019 Revised: On hold due to suspension of quarry activities.		
REC 14	Project Approval Condition 38, Schedule 3	Implement and record the routine inspections of Tuckean Swamp and Tucki Tucki Creek	Add inspection / observation of Tuckean Swamp and Tucki Tucki Creek onto Quarterly Surface Monitoring Checklist and undertake observation at planned February monitoring.	Completed	Inspection of Tuckean Swamp and Tucki Tucki Creek incorporated into Quarterly Monitoring Checklist.	Completed
REC 15	Project Approval Condition 42, Schedule 3	Obtain from DPE confirmation the Offset Strategy and Conservation and Rehabilitation Bond is the long term security required by Condition 42, Schedule 3	Request sent to DPI&E confirming if the Offset Strategy and Conservation and Rehabilitation Bond is the long term security required by Condition 42, Schedule 3	Completed	Letter received from DPI&E on 10 April 2019 confirming long term security of offsets.	Completed

APPENDIX D

Summary of Product Transport Monitoring Data

Date	Rego	Time	Weight (t)
7/01/2019	CP60LI	07:40	12.9
7/01/2019	DTT25B	15:33	0.82
7/01/2019	CN70EQ	07:49	32.85
7/01/2019	CN70EQ	08:49	32.65
7/01/2019	CN70EQ	09:52	32.38
7/01/2019	CN70EQ	11:12	32.83
7/01/2019	CN70EQ	12:11	32.61
7/01/2019	CN70EQ	13:17	32.64
8/01/2019	YMU514	13:11	0.5
8/01/2019	CC90FS	13:07	12.51
8/01/2019	CN70EQ	15:22	32.71
9/01/2019	BY80LZ	07:24	31.79
9/01/2019	CN70EQ	10:03	32.82
9/01/2019	CK40FH	13:46	32.5
9/01/2019	BY80LZ	13:54	32.35
9/01/2019	CN70EQ	14:01	32.65
9/01/2019	CK40FH	14:41	32.15
9/01/2019	BY80LZ	14:48	32.35
9/01/2019	CN70EQ	15:07	32.85
9/01/2019	CK40FH	15:38	32.05
9/01/2019	BY80LZ	15:45	32.25
9/01/2019	CN93ZT	12:10	12.65
9/01/2019	CK66NE	13:05	32.89
10/01/2019	XN20BP	09:07	7.95
10/01/2019	BP84RV	14:22	1
11/01/2019	BV35BT	12:22	12.5
11/01/2019	BV35BT	12:34	25.99
11/01/2019	BR16RT	08:21	32.46
11/01/2019	CK66NE	08:28	33.05
11/01/2019	BR16RT	09:43	32.47
11/01/2019	CK66NE	09:55	32.9
14/01/2019	XN20BP	08:26	8.15
14/01/2019	XN20BP	09:48	7.95
14/01/2019	CK90FH	07:33	32.09
14/01/2019	CP60LI	07:23	13.06
14/01/2019	AD23FS	13:17	12.75
14/01/2019	AM31JF	07:09	30.02
14/01/2019	AM31JF	13:38	29.9
14/01/2019	CN93ZT	09:36	38.76
14/01/2019	BV35BT	09:43	38.41
14/01/2019	CN93ZT	11:13	39.05
14/01/2019	BV35BT	11:22	38.52
14/01/2019	CN93ZT	12:58	38.97
15/01/2019	CP60LI	08:25	12.95
15/01/2019	AB13EJ	13:05	13.47
15/01/2019	CN17CJ	10:33	12.62
15/01/2019	AM31JF	07:06	10.98
15/01/2019	AM31JF	08:31	11.01
15/01/2019	AM31JF	09:49	11.07
15/01/2019	AM31JF	11:16	10.99
15/01/2019	AM31JF	12:36	11.09

Date	Rego	Time	Weight (t)
15/01/2019	AM31JF	14:58	30.05
16/01/2019	AM31JF	07:07	29.93
16/01/2019	AM31JF	08:57	29.94
16/01/2019	CD86MD	09:39	25.99
16/01/2019	AM31JF	10:24	29.97
16/01/2019	CD86MD	11:22	26.05
16/01/2019	AM31JF	11:54	29.98
16/01/2019	CD86MD	12:49	26.05
16/01/2019	AM31JF	13:34	30.11
16/01/2019	CD86MD	14:11	26.08
16/01/2019	AM31JF	14:56	29.99
16/01/2019	CN70EG	11:46	32.72
16/01/2019	CN70EQ	13:02	32.83
16/01/2019	CN70EQ	14:37	32.73
16/01/2019	CN70EQ	15:43	32.56
17/01/2019	XNV281	17:03	0.51
17/01/2019	BL35JA	14:05	12.02
17/01/2019	AM31JF	07:06	29.99
17/01/2019	AM31JF	08:44	30.03
17/01/2019	AM31JF	10:17	30.06
17/01/2019	AM31JF	11:54	30.02
17/01/2019	AM31JF	13:27	29.91
17/01/2019	AM31JF	14:55	30.01
17/01/2019	CN93ZT	09:56	38.99
17/01/2019	BV35BT	10:29	38.49
17/01/2019	CN93ZT	11:39	39.16
17/01/2019	BV35BT	12:12	38.51
17/01/2019	CN93ZT	13:19	39.08
17/01/2019	BV35BT	13:52	38.51
17/01/2019	CN93ZT	15:22	39.08
17/01/2019	BV35BT	15:37	38.53
21/01/2019	AK62VN	13:51	12.45
21/01/2019	CL40HT	08:02	38.66
21/01/2019	CL40HT	16:22	38.71
21/01/2019	CC90FS	16:38	32.11
21/01/2019	CH97TC	17:03	38.57
23/01/2019	CC97ME	10:04	12.45
23/01/2019	CC97ME	11:43	12.28
23/01/2019	CC97ME	13:28	12.28
23/01/2019	CC97ME	14:51	12.35
23/01/2019	CK90FH	10:25	32.5
24/01/2019	AM31JF	07:09	30.12
24/01/2019	AM31JF	08:41	30.15
24/01/2019	AM31JF	10:06	30.02
24/01/2019	AM31JF	11:56	30.06
24/01/2019	AM31JF	13:23	29.98
24/01/2019	AM31JF	14:54	30.34
24/01/2019	CK90FH	07:44	33.08
24/01/2019	CK90FH	08:56	32.96
24/01/2019	CK90FH	13:48	33
24/01/2019	CK90FH	14:47	33

Date	Rego	Time	Weight (t)
24/01/2019	CK90FH	15:40	32.85
24/01/2019	BV35BT	07:35	38.46
24/01/2019	BV35BT	09:14	38.47
24/01/2019	BV35BT	10:54	38.36
25/01/2019	XN93CD	12:58	7.24
25/01/2019	XN93CD	14:04	10.01
25/01/2019	AM31JF	07:09	30
25/01/2019	AM31JF	08:33	30.06
25/01/2019	CK90FH	14:15	33.04
25/01/2019	BG52VL	14:25	2.5
25/01/2019	BY68YC	09:13	32.19
25/01/2019	BY88CH	08:46	12.88
25/01/2019	CH97TC	07:38	38.43
25/01/2019	CH97TC	09:07	38.49
25/01/2019	CH97TC	10:39	38.5
29/01/2019	519GSR	12:37	0.99
29/01/2019	519GSR	15:21	1.01
29/01/2019	AM31JF	07:09	29.96
29/01/2019	AM31JF	8:39	0.02
29/01/2019	AM31JF	10:08	30.04
29/01/2019	AM31JF	11:41	30.06
29/01/2019	AM31JF	13:12	30.03
29/01/2019	AM31JF	14:40	30.07
29/01/2019	BV35BT	08:52	38.46
29/01/2019	CN70EQ	08:16	32.51
29/01/2019	CK90FN	11:12	33.1
29/01/2019	CK90FH	14:53	33.07
30/01/2019	CN70EQ	08:16	32.67
30/01/2019	CN70EQ	09:16	32.78
30/01/2019	CN70EQ	10:12	32.77
30/01/2019	BY80LZ	10:50	32.16
30/01/2019	CN70EQ	11:22	32.72
30/01/2019	BY80LZ	12:11	32.11
30/01/2019	CK90FH	12:25	33.02
30/01/2019	CN70EQ	12:31	32.77
30/01/2019	BY80LZ	13:11	32.16
30/01/2019	CK90FH	13:49	32.98
30/01/2019	CN70EQ	13:55	32.55
30/01/2019	BY80LZ	14:12	32.16
30/01/2019	AM31JF	07:07	29.96
30/01/2019	AM31JF	08:36	30.07
30/01/2019	AM31JF	10:05	30.1
30/01/2019	AM31JF	11:36	30.12
30/01/2019	CN93ZT	07:19	38.71
30/01/2019	CN93ZT	09:04	38.85
30/01/2019	519GSR	09:15	1.17
30/01/2019	519GSR	08:24	1.01
31/01/2019	BV35DT	07:23	38.36
31/01/2019	CL40HT	07:30	38.52
31/01/2019	BV35BT	09:21	38.53
1/02/2019	AM31JF	07:11	30.09
1/02/2019	AM31JF	08:43	30.07
1/02/2019	AM31JF	10:09	30.09
1/02/2019	AM31JF	11:50	30.06
1/02/2019	SKY293	11:38	14.19
1/02/2019	SKY293	12:33	14.1

Date	Rego	Time	Weight (t)
1/02/2019	SKY293	14:02	13.93
1/02/2019	SKY293	14:53	14
1/02/2019	519GSR	09:03	1.02
1/02/2019	519GSR	10:31	1.01
1/02/2019	BI88CH	13:58	13.44
1/02/2019	XN08GT	08:59	1.99
1/02/2019	CL40HT	07:43	38.62
1/02/2019	BY68YC	08:35	32.29
1/02/2019	AD23FS	07:30	12.75
4/02/2019	XOI925	17:04	3
4/02/2019	XN08GT	14:23	3.03
4/02/2019	BY68YC	12:57	12.29
4/02/2019	BY68YC	14:20	12.48
4/02/2019	AK62VN	14:24	12.82
4/02/2019	BY68YC	15:20	12.36
4/02/2019	AK62VN	15:25	12.79
4/02/2019	XN93CP	09:21	5.09
4/02/2019	CL40HT	07:27	38.6
4/02/2019	CL40HT	08:58	38.55
4/02/2019	CL40HT	10:39	38.49
4/02/2019	CL40HT	12:22	38.6
4/02/2019	CL40HT	14:02	38.58
5/02/2019	CN93ZT	07:49	12.55
5/02/2019	CN93ZT	09:00	12.51
5/02/2019	CH97TC	14:32	31.9
5/02/2019	CL40HT	07:16	38.5
5/02/2019	BM70UW	07:23	31.84
5/02/2019	CL40HT	08:48	38.57
5/02/2019	BM70UW	08:55	31.83
5/02/2019	CL40HT	10:28	38.59
5/02/2019	BM70UW	10:36	31.73
6/02/2019	YKU138	15:22	2
6/02/2019	CK90FH	10:56	33.06
6/02/2019	CC90ME	11:15	27.41
6/02/2019	CN70EQ	09:00	12.09
6/02/2019	CN70EQ	10:03	12.38
6/02/2019	CL40HT	07:12	38.5
6/02/2019	CN93ZT	07:18	38.89
6/02/2019	CL40HT	08:50	38.63
6/02/2019	CN93ZT	08:55	38.86
7/02/2019	BY13LU	13:59	2
7/02/2019	SKY293	08:02	14
7/02/2019	SKY293	08:56	14.03
7/02/2019	SKY293	10:04	14.09
7/02/2019	SKY293	10:55	13.98
7/02/2019	SKY293	11:44	14.08
7/02/2019	CL40HT	07:14	38.57
7/02/2019	CL40HT	08:50	38.59
7/02/2019	CN93ZT	10:16	38.59
7/02/2019	CL40HT	10:24	38.53
8/02/2019	AJ610	07:25	38.69
8/02/2019	BK51PQ	08:19	32.42
8/02/2019	ZJD987	08:54	33.01
8/02/2019	AJ610	09:01	38.71
8/02/2019	CJ81QI	09:18	39.48
8/02/2019	BZ27UD	10:14	32.22

Date	Rego	Time	Weight (t)
8/02/2019	BK51BQ	10:19	32.47
8/02/2019	ZJD987	10:25	32.98
8/02/2019	AJ610	10:34	38.78
8/02/2019	BK51BQ	11:36	32.51
8/02/2019	ZJD987	11:55	32.9
8/02/2019	AJ610	12:03	38.53
8/02/2019	CJ81QI	12:11	39.55
8/02/2019	BK51BQ	13:22	32.56
8/02/2019	AJ610	13:29	38.52
8/02/2019	BK51BQ	14:39	32.51
8/02/2019	AJ610	14:58	38.74
8/02/2019	CJ81QI	15:19	39.51
8/02/2019	BS27QQ	15:55	32.45
8/02/2019	CL40HT	07:10	38.51
8/02/2019	CN93ZT	07:16	38.77
8/02/2019	CL40HT	08:38	38.79
8/02/2019	CN93ZT	09:11	38.85
8/02/2019	CL40HT	10:07	38.86
8/02/2019	CN93ZT	11:02	38.88
8/02/2019	CL40HT	11:46	38.56
8/02/2019	CN93ZT	12:41	38.86
8/02/2019	CL40HT	13:40	38.68
9/02/2019	CI97ZL	08:03	38.82
9/02/2019	BZ27UD	08:09	32.16
9/02/2019	BS27QQ	08:14	32.53
9/02/2019	CJ81QI	08:21	39.55
9/02/2019	CI97ZL	09:26	38.66
9/02/2019	CN93ZT	08:28	38.87
9/02/2019	BZ27UD	09:31	32.22
9/02/2019	BS27QQ	09:36	32.2
9/02/2019	CJ81QI	09:43	39.41
9/02/2019	CN93ZT	09:49	38.61
9/02/2019	CI97ZL	10:44	38.9
9/02/2019	BZ27UD	10:51	32.19
9/02/2019	BS27QQ	10:58	32.33
9/02/2019	CJ81QI	11:05	39.37
9/02/2019	CN93ZT	11:11	38.68
11/02/2019	CC90ME	10:19	12.27
11/02/2019	CC90ME	13:58	12.24
11/02/2019	BR16RT	08:13	12.71
11/02/2019	CP60LI	14:36	9.07
11/02/2019	BY80LZ	08:24	32.1
11/02/2019	CP60LI	15:33	12.96
11/02/2019	AM31JF	07:08	30.11
11/02/2019	CL40HT	07:13	38.48
11/02/2019	BS27QQ	07:19	32.5
11/02/2019	CD86MD	07:26	27.89
11/02/2019	AM31JF	08:34	30.1
11/02/2019	CL40HT	08:40	38.48
11/02/2019	BS27QQ	08:47	32.48
11/02/2019	CD86MD	09:00	27.88
11/02/2019	AM31JF	09:58	30.08
11/02/2019	CL40HT	10:04	38.63
11/02/2019	BS27QQ	10:15	32.41
11/02/2019	BZ27UD	10:26	32.03
11/02/2019	CD86MD	10:31	27.92

Date	Rego	Time	Weight (t)
11/02/2019	AM31JF	11:24	30.06
11/02/2019	CL40HT	11:30	38.66
11/02/2019	BS27QQ	11:39	32.52
11/02/2019	CD86MD	11:54	27.92
11/02/2019	CL40HT	12:55	38.69
11/02/2019	AM31JF	13:01	30.08
11/02/2019	BS27QQ	13:07	32.48
11/02/2019	CD86MD	13:12	27.84
11/02/2019	CL40HT	14:16	38.78
11/02/2019	AM31JF	14:25	30.03
11/02/2019	BS27QQ	14:32	32.44
11/02/2019	CD86MD	14:46	27.94
11/02/2019	CL40HT	15:53	38.75
11/02/2019	AM31JF	15:59	30.05
11/02/2019	BS27QQ	16:07	32.4
11/02/2019	CD86MD	16:14	28
12/02/2019	CC97ME	10:05	13.05
12/02/2019	CC97ME	11:22	12.75
12/02/2019	CC97ME	12:34	12.85
12/02/2019	CP60LI	13:57	12.8
12/02/2019	CP60LI	09:38	12.9
12/02/2019	CP60LI	10:22	12.85
12/02/2019	CP60LI	11:01	12.85
12/02/2019	CP60LI	11:43	12.95
12/02/2019	CP60LI	12:30	7.25
12/02/2019	CL40HT	08:25	38.45
12/02/2019	CL40HT	09:56	38.5
12/02/2019	CL40HT	11:32	38.5
12/02/2019	CL40HT	12:56	38.75
12/02/2019	CL40HT	14:26	38.75
13/02/2019	BZ27UD	07:08	32
13/02/2019	AM31JF	07:15	29.95
13/02/2019	CN93ZT	07:22	38.7
13/02/2019	CH97TC	07:28	38.6
13/02/2019	BZ27UD	08:34	32
13/02/2019	AM31JF	08:43	30.2
13/02/2019	CH97TC	09:02	38.6
13/02/2019	CN93ZT	09:09	38.65
13/02/2019	BZ27UD	10:00	32
13/02/2019	AM31JF	10:09	30.05
13/02/2019	CH97TC	10:31	38.65
13/02/2019	CN93ZT	10:38	38.8
13/02/2019	BZ27UD	11:21	32.2
13/02/2019	AM31JF	11:36	30.05
13/02/2019	CH97TC	12:01	38.45
13/02/2019	CN93ZT	12:13	38.85
13/02/2019	BZ27UD	12:57	32.2
13/02/2019	CH97TC	13:26	38.35
13/02/2019	CN93ZT	13:32	38.8
13/02/2019	AM31JF	13:38	30.15
13/02/2019	BZ27UD	14:39	32.15
13/02/2019	CH97TC	14:56	38.6
13/02/2019	CJ81QI	15:03	39.4
13/02/2019	CK93ZT	15:10	38.8
13/02/2019	AM31JF	15:17	29.95
13/02/2019	CL40HT	07:43	38.5

Date	Rego	Time	Weight (t)
13/02/2019	CL40HT	09:43	38.7
13/02/2019	CL40HT	11:08	38.7
13/02/2019	CL40HT	12:49	38.9
13/02/2019	CL40HT	14:28	38.6
14/02/2019	CL40HT	07:27	38.6
15/02/2019	CC90ME	10:48	13.01
15/02/2019	CC90ME	10:53	13.57
15/02/2019	CK90FH	12:16	33.07
15/02/2019	CK66NE	12:41	13
15/02/2019	BY68YC	13:16	19.47
15/02/2019	BK16RT	07:19	32.18
15/02/2019	BK16RT	08:53	32.53
15/02/2019	BK16RT	10:27	32.53
18/02/2019	CK90FH	14:47	32.9
18/02/2019	CF72RB	08:03	12.95
18/02/2019	BK16RT	07:44	32.55
18/02/2019	BK16RT	09:19	32.48
18/02/2019	BK16RT	10:46	32.3
18/02/2019	BK16RT	12:21	32.3
18/02/2019	BS27QQ	07:08	32.21
18/02/2019	CL40HT	07:16	38.88
18/02/2019	BY68YC	07:22	32.28
18/02/2019	CI23AU	07:30	32.82
18/02/2019	BS27QQ	08:32	32.24
18/02/2019	CL40HT	08:40	38.57
18/02/2019	BY68YC	08:46	32.26
18/02/2019	CI23AU	08:58	32.78
18/02/2019	BS27QQ	09:59	32.18
18/02/2019	CL40HT	10:06	38.77
18/02/2019	BY68YC	10:12	32.25
18/02/2019	CI23AU	10:24	32.81
18/02/2019	BS27QQ	11:23	32.26
18/02/2019	CL40HT	11:32	38.81
18/02/2019	BY68YC	11:38	32.16
18/02/2019	CI23AU	12:00	32.81
18/02/2019	BS27QQ	12:52	32.25
18/02/2019	CL40HT	12:59	38.7
18/02/2019	BY68YC	13:05	32.09
18/02/2019	CI23AU	13:28	32.57
18/02/2019	BS27QQ	14:15	32.19
18/02/2019	CL40HT	14:22	38.73
18/02/2019	BY68YC	14:28	32.16
18/02/2019	CI23AU	14:55	32.7
18/02/2019	BS27QQ	15:41	32.14
18/02/2019	CL40HT	15:49	38.69
18/02/2019	BY68YC	15:56	32.1
19/02/2019	BF32XB	14:44	3
19/02/2019	BY68YC	07:37	31.98
19/02/2019	BM70UW	07:44	31.99
19/02/2019	BY68YC	09:11	31.92
19/02/2019	BM70UW	09:17	32.03
19/02/2019	AJ610	07:10	38.55
19/02/2019	CL40HT	07:17	38.74
19/02/2019	CN93ZT	07:23	38.91
19/02/2019	CD86MD	08:00	28.05
19/02/2019	AJ610	08:31	38.44

Date	Rego	Time	Weight (t)
19/02/2019	CL40HT	08:38	38.69
19/02/2019	CN93ZT	08:47	38.77
19/02/2019	CD86MD	09:26	27.98
19/02/2019	AJ610	09:58	38.48
19/02/2019	CL40HT	10:06	38.58
19/02/2019	CN93ZT	10:13	38.69
19/02/2019	CD86MD	10:43	27.95
19/02/2019	AJ610	11:19	38.51
19/02/2019	CL40HT	11:28	38.51
19/02/2019	CN93ZT	11:33	38.87
19/02/2019	CD86MD	12:01	28.03
19/02/2019	AJ610	12:43	38.42
19/02/2019	BZ27UD	12:49	32.19
19/02/2019	CL40HT	12:55	38.84
19/02/2019	CN93ZT	13:01	38.75
19/02/2019	CD86MD	13:20	27.97
19/02/2019	AJ610	14:08	38.48
19/02/2019	CL40HT	14:16	38.87
19/02/2019	CN93ZT	14:27	38.91
19/02/2019	CD86MD	14:49	28
19/02/2019	AJ610	15:31	38.52
19/02/2019	CL40HT	15:44	28.66
19/02/2019	CN93ZT	15:50	38.52
20/02/2019	CP60LI	09:28	12.84
20/02/2019	CP60LI	10:21	12.88
20/02/2019	CQ002	08:58	16.49
20/02/2019	XN54FS	11:21	33
20/02/2019	CL40HT	08:23	38.68
20/02/2019	CN93ZT	08:29	38.64
20/02/2019	CN93ZT	10:14	38.85
21/02/2019	BY80LZ	12:09	32.06
21/02/2019	CL40HT	07:25	38.67
21/02/2019	BM70UW	08:08	32.01
21/02/2019	CL40HT	09:13	38.64
21/02/2019	BM70UW	09:36	31.81
21/02/2019	CL40HT	10:569	38.54
22/02/2019	CM17GJ	11:05	12.79
22/02/2019	GQ0002	10:13	16.53
22/02/2019	CM68UC	14:23	32.84
22/02/2019	BY80LZ	12:30	12.04
22/02/2019	BY80LZ	12:26	19.86
25/02/2019	JSQ583	12:07	5
25/02/2019	CP60LI	13:49	12
25/02/2019	XN54FS	12:46	13.04
25/02/2019	XN54FS	16:17	12.99
25/02/2019	GQ0002	16:21	16.02
26/02/2019	BK16RT	08:25	32.23
26/02/2019	GQ0002	09:46	16.01
26/02/2019	CN93ZT	08:18	38.71
26/02/2019	CN93ZT	10:00	38.84
27/02/2019	GQ0002	10:12	16.06
27/02/2019	CN70EQ	14:39	32.8
28/02/2019	BM70UW	07:50	31.95
28/02/2019	BM70UW	10:10	18.35
28/02/2019	BM70UW	10:14	12.1
28/02/2019	CN70EQ	08:02	12.7

Date	Rego	Time	Weight (t)
28/02/2019	BY80LZ	08:05	12.05
28/02/2019	SKY293	08:09	13.6
28/02/2019	BY80LZ	08:58	11.9
28/02/2019	CN70EQ	09:01	12.7
28/02/2019	SKY293	09:08	13.45
28/02/2019	CN70EQ	09:49	12.85
28/02/2019	BY80LZ	09:54	12
28/02/2019	SKY293	10:23	13.55
28/02/2019	BY80LZ	10:45	12.05
28/02/2019	CN70EQ	11:00	12.8
28/02/2019	SKY293	11:10	13.4
28/02/2019	BY80LZ	11:41	12.25
28/02/2019	CN70EQ	11:45	12.85
28/02/2019	SKY293	11:55	13.6
28/02/2019	BY80LZ	12:32	12.05
28/02/2019	CN70EQ	12:35	12.85
28/02/2019	SKY293	13:15	13.6
28/02/2019	BY80LZ	13:42	9.55
28/02/2019	XN49DO	14:22	13.1
28/02/2019	CN93ZT	07:40	38.75
28/02/2019	CN93ZT	10:34	38.85
1/03/2019	CM68VL	12:10	33.05
1/03/2019	CM68VL	15:28	33.05
1/03/2019	CN70EQ	08:19	32.48
1/03/2019	CN70EQ	09:36	32.52
1/03/2019	BY80LZ	08:03	30.05
1/03/2019	DTT25B	14:28	0.86
1/03/2019	CL90FS	08:44	32
1/03/2019	CL90FS	10:11	32.05
4/03/2019	CC90FS	07:52	32.24
4/03/2019	BR16RT	12:20	12.52
4/03/2019	XN54FS	10:04	13.09
4/03/2019	XN54FS	14:27	12.95
5/03/2019	CN70EQ	09:09	32.27
5/03/2019	CN70EQ	10:11	32.27
5/03/2019	CN70EQ	12:04	32.46
5/03/2019	CN70EQ	13:00	32.48
5/03/2019	CN70EQ	15:17	32.12
5/03/2019	XN54FS	08:52	13
5/03/2019	GQ0004	15:02	32.75
5/03/2019	CM68VL	15:10	32.94
5/03/2019	CL40HT	07:33	38.56
5/03/2019	BM70VW	08:18	32.02
5/03/2019	CL40HT	09:22	38.34
5/03/2019	CL40HT	11:10	38.6
6/03/2019	CM68UL	11:00	33.05
6/03/2019	CP23PU	13:34	33.05
6/03/2019	CM68UL	14:07	32.95
6/03/2019	BK16RT	14:38	12.55
6/03/2019	CN70EQ	08:00	32.73
6/03/2019	CN70EQ	09:03	32.75
6/03/2019	CN70EQ	10:25	32.5
6/03/2019	CN70EQ	11:33	32.75
6/03/2019	CN70EQ	12:32	32.55
6/03/2019	BZ27UD	07:10	32.05
6/03/2019	BS27QQ	07:19	32.35

Date	Rego	Time	Weight (t)
6/03/2019	XN10DG	07:28	32.51
6/03/2019	AV60FK	07:35	31.97
6/03/2019	XV61FG	07:43	32.08
6/03/2019	BZ27UD	08:38	32.2
6/03/2019	BS27QQ	08:47	32.45
6/03/2019	XN10DG	08:53	32.4
6/03/2019	AV60FK	09:10	31.9
6/03/2019	XV61FC	09:16	32
6/03/2019	BZ27UD	09:59	32.25
6/03/2019	BS27QQ	10:06	32.15
6/03/2019	XN10DG	10:15	32.15
6/03/2019	AV60FK	10:34	32.05
6/03/2019	XV61FG	10:40	32.1
6/03/2019	BZ27UD	11:21	32.4
6/03/2019	BS27QQ	11:27	32.25
6/03/2019	XN10DG	12:00	32
6/03/2019	AV60FK	12:05	32
6/03/2019	XV61FG	12:11	32.1
6/03/2019	BZ27UD	12:39	32.15
6/03/2019	BS27QQ	13:00	32.1
6/03/2019	XN10DG	13:19	32.1
6/03/2019	AV60FK	13:41	32.05
6/03/2019	XV61FC	13:48	32.15
6/03/2019	BS27QQ	14:21	32.05
6/03/2019	BZ27UD	14:34	32.25
6/03/2019	XN10DG	14:45	32.05
6/03/2019	AV60FK	15:00	32.1
6/03/2019	XV61FG	15:06	32.1
6/03/2019	BS27QQ	15:50	32
6/03/2019	BZ27UD	15:57	32.1
6/03/2019	CL40HT	08:16	38.54
6/03/2019	CL40HT	09:49	38.7
6/03/2019	CL40HT	11:47	38.7
7/03/2019	CM17GJ	09:02	10.1
7/03/2019	CM17GJ	14:21	10.1
7/03/2019	CM17GJ	16:33	10.1
7/03/2019	CK90FH	08:59	32.45
7/03/2019	CK90FH	10:01	32.45
7/03/2019	CK90FH	11:08	32.6
7/03/2019	BY80LZ	14:36	32.25
7/03/2019	BY80LZ	15:33	32.1
7/03/2019	BY80LZ	16:28	32.1
7/03/2019	CB66FS	13:15	12.45
7/03/2019	BT26ME	13:19	11.5
7/03/2019	YAF429	13:22	11.55
7/03/2019	BV29BI	13:25	12.05
7/03/2019	VOR703	14:00	11.05
7/03/2019	YAF429	14:59	11.45
7/03/2019	CB66FS	15:07	12.2
7/03/2019	BV29BI	15:12	12.05
7/03/2019	BT26ME	15:15	11.55
7/03/2019	VOR703	15:26	11.05
7/03/2019	CL40HT	09:29	38.5
7/03/2019	CL40HT	11:20	38.5
7/03/2019	CL40HT	13:01	38.6
7/03/2019	CL40HT	14:49	38.55

Date	Rego	Time	Weight (t)
8/03/2019	GQOO02	08:14	33.1
8/03/2019	CI97ZL	07:11	38.95
8/03/2019	CI97ZL	08:42	38.95
8/03/2019	CI97ZL	10:11	38.9
8/03/2019	CI97ZL	11:37	39.05
8/03/2019	CI97ZL	12:59	39.05
8/03/2019	CI97ZL	14:25	38.9
8/03/2019	CI97ZL	15:45	38.95
8/03/2019	CN93ZT	07:32	38.6
8/03/2019	CN93ZT	09:11	38.6
8/03/2019	CN93ZT	11:25	38.55
11/03/2019	CC90FS	11:02	32.25
11/03/2019	CC90FS	13:23	12.25
11/03/2019	GQOO04	11:40	33
11/03/2019	CC90FS	12:16	12.2
12/03/2019	AD23FS	07:32	11.95
12/03/2019	XN93CP	08:20	12.25
12/03/2019	XN93CP	08:58	12.3
12/03/2019	XN93CP	09:48	12.2
12/03/2019	XN93CP	10:43	12.25
12/03/2019	XN93CP	11:54	12.15
12/03/2019	GQO004	10:02	33.15
12/03/2019	XN54FS	10:15	32.9
12/03/2019	GQO004	12:51	32.8
12/03/2019	XN54FS	13:17	32.9
12/03/2019	CN70EQ	11:49	12.8
12/03/2019	CK90FH	11:43	33
12/03/2019	CJ70EQ	9:44	12.75
12/03/2019	XN0CT	13:06	2.95
12/03/2019	AD23FS	07:32	11.95
13/03/2019	CK90FH	10:00	32.1
13/03/2019	CK90FH	11:25	32.35
13/03/2019	CK90FH	13:23	32.45
13/03/2019	CK90FH	14:29	32.15
13/03/2019	XN54FS	09:23	32.8
13/03/2019	GQO004	10:35	33.1
13/03/2019	CP60LI	15:30	12.05
13/03/2019	CP60LI	16:24	12.05
13/03/2019	CL40HT	07:26	38.35
13/03/2019	CL40HT	09:31	38.45
13/03/2019	CL40HT	11:47	38.05
13/03/2019	CL40HT	13:54	38.7
14/03/2019	XV61FG	07:10	32.2
14/03/2019	BS27QQ	07:16	32.45
14/03/2019	AJ610	7:23	38.85
14/03/2019	XN10DG	07:28	32.35
14/03/2019	AV60FK	07:34	31.95
14/03/2019	XV61FG	08:38	32.3
14/03/2019	BS27QQ	08:46	32.4
14/03/2019	AJ610	8:52	38.65
14/03/2019	XN10DG	08:58	32.35
14/03/2019	AV60FK	09.03	32.15
14/03/2019	XV61FG	10.08	32.25
14/03/2019	BS27QQ	10.14	32.45
14/03/2019	AJ610	10:20	38.7
14/03/2019	XN10DG	10:25	32.6

Date	Rego	Time	Weight (t)
14/03/2019	AV60FK	10:31	32.05
14/03/2019	XV61FG	11:36	32.25
14/03/2019	BS27QQ	11:41	32.6
14/03/2019	AJ610	1:47	38.65
14/03/2019	XN10DG	12:02	32.4
14/03/2019	AV60FK	12:08	32.1
14/03/2019	CQ004	11:00	33.05
14/03/2019	CQ004	3:55 -	33.05
14/03/2019	CP23PU	15:34	32.9
14/03/2019	CN93ZT	08:13	38.6
14/03/2019	CN93ZT	09:56	38.8
14/03/2019	CN93ZT	11:54	38.85
15/03/2019	CK90FH	11:56	32.5
15/03/2019	GQ0004	10:34	33.05
18/03/2019	CC90FS	07:54	12.25
18/03/2019	CC90FS	08:45	12.35
18/03/2019	CC90FS	09:27	12.3
18/03/2019	CC90FS	10.00	12.35
18/03/2019	CC90FS	10:52	12.25
18/03/2019	CC90FS	11:29	12.3
18/03/2019	CC90FS	12:04	12.25
18/03/2019	CC90FS	14:08	12.4
18/03/2019	CC90FS	12.54	12.2
18/03/2019	CC90FS	13:29	12.3
18/03/2019	CC90FS	14:42	12.2
18/03/2019	CC90FS	15:11	12.35
18/03/2019	CC90FS	15:37	12.25
18/03/2019	CC90FS	16:02	12.3
18/03/2019	CN70EQ	09:21	32.6
18/03/2019	GQ0004	14:29	13.1
18/03/2019	BV35BT	14:35	12
18/03/2019	CN93ZT	07:30	38.6
18/03/2019	BU35BT	07:39	38.45
18/03/2019	CN93ZT	09:14	38.6
19/03/2019	CM17GJ	07:14	12
19/03/2019	AD23FS	07:44	12.15
19/03/2019	CK66ME	07:47	12.1
19/03/2019	CM17GJ	10:13	12.1
19/03/2019	CV50LI	13:49	12.05
19/03/2019	CM17GJ	13:55	12
19/03/2019	CK66ME	13:58	12.1
19/03/2019	AD23FS	14:16	12.1
19/03/2019	CN70EQ	08:25	32.65
19/03/2019	CN70EQ	14:13	32.45
19/03/2019	GQ0002	14:53	16.3
19/03/2019	CN93ZT	07:30	38.5
19/03/2019	BV35BT	07:37	38.5
19/03/2019	CN93ZT	09:07	38.6
19/03/2019	BV35BT	09:26	38.5
19/03/2019	CN93ZT	11:09	38.8
19/03/2019	BV35BT	11:34	38.4
20/03/2019	GQ0002	09:16	15.95
20/03/2019	GQ0002	12:06	16.1
20/03/2019	CN70EQ	14:21	32.8
20/03/2019	CN70EQ	15:17	32.05
21/03/2019	CP68UB	09:52	12.15

Date	Rego	Time	Weight (t)
21/03/2019	CP68UB	12:20	12.05
21/03/2019	GQ0002	09:12	33
21/03/2019	GQ0002	12:07	33.05
21/03/2019	AK62VN	07:35	12.5
21/03/2019	AK62VN	08:18	12.45
21/03/2019	AK62VN	08:55	12.5
21/03/2019	CN93ZT	08:49	38.55
21/03/2019	CN93ZT	11:25	38.55
21/03/2019	CN93ZT	14:10	38.65
22/03/2019	BS27QQ	07:06	32.3
22/03/2019	XN63DF	07:13	39
22/03/2019	CI73KJ	07:20	38.2
22/03/2019	BS27QQ	08:25	32.5
22/03/2019	XN63DF	08:32	38.95
22/03/2019	CI73KJ	08:45	38.2
22/03/2019	BS27QQ	09:46	32.45
22/03/2019	XN63DF	09:54	39
22/03/2019	CI73DF	10:09	38.15
22/03/2019	BS27UD	11:05	32.3
22/03/2019	XV61FG	11:11	32.2
22/03/2019	XN63DF	11:18	38.9
22/03/2019	CI73KJ	11:35	38.15
22/03/2019	BS27UD	12:55	32
22/03/2019	XV61FG	13:05	32.3
22/03/2019	XN63DF	13:12	39
22/03/2019	CI73KJ	13:25	38.2
22/03/2019	BS27UD	14:17	32.35
22/03/2019	XV61FG	14:30	32.35
22/03/2019	XN63DF	14:37	38.85
22/03/2019	CI73KJ	14:49	38.1
22/03/2019	BS27UD	15:46	32.3
22/03/2019	XV61FG	15:52	32.05
25/03/2019	CM17GJ	15:49	12.5
25/03/2019	CK90FH	14:02	33.05
25/03/2019	CM68VL	09:33	33.1
25/03/2019	XN54FS	15:25	33.1
25/03/2019	BV35BT	12:32	38.55
25/03/2019	BM70UW	14:09	31.95
25/03/2019	BV35BT	14:18	38.5
26/03/2019	BV35BT	11:59	12
26/03/2019	CP60LI	12:36	12.4
26/03/2019	CP60LI	14:38	12.05
26/03/2019	CN70EQ	09:34	32.6
26/03/2019	CN70EQ	11:04	32.65
26/03/2019	CN70EQ	12:08	32.8
26/03/2019	BV35BT	08:00	38.3
26/03/2019	BV35BT	09:45	38.5
27/03/2019	CK66ME	07:21	12.05
27/03/2019	BM70VW	09:09	12.35
27/03/2019	BM70VW	11:31	12.4
27/03/2019	CM17GJ	11:33	12
27/03/2019	BY80LZ	13:18	32.45
27/03/2019	BY80LZ	14:25	32.4
27/03/2019	BY80LZ	15:32	32.35
27/03/2019	XN54DO	14:40	3.1
27/03/2019	XN54DO	16:55	3.05

Date	Rego	Time	Weight (t)
28/03/2019	CK66ME	07:21	12.05
28/03/2019	CP60LI	07:41	12.45
28/03/2019	CK66ME	09:28	12
28/03/2019	CP60LI	11:57	12.3
28/03/2019	CK66ME	12:39	12.1
28/03/2019	CP60LI	14:18	12.4
28/03/2019	CN70EQ	08:18	32.6
28/03/2019	CN70EQ	09:22	32.75
28/03/2019	CN70EQ	11:27	32.75
28/03/2019	CN70EQ	12:25	32.5
28/03/2019	BY80LZ	14:31	32.05
28/03/2019	BY80LZ	15:49	32.45
28/03/2019	GQ0004	08:08	32.8
28/03/2019	GQ0004	10:21	33
28/03/2019	BV35BT	07:30	38.5
28/03/2019	BV35BT	09:13	38.5
29/03/2019	BL35JA	07:14	6.1
29/03/2019	CK90FH	13:26	32.9
29/03/2019	CN70EQ	10:54	32.55
29/03/2019	CN70EQ	11:55	32.65
29/03/2019	CN70EQ	13:15	32.5
29/03/2019	CQ0004	09:53	33.1
29/03/2019	XN54DO	11:01	3.05
29/03/2019	XN54DO	12:37	3
29/03/2019	XN54DO	16:02	3
29/03/2019	XN54DO	13:53	3
29/03/2019	XN54DO	15:01	3
1/04/2019	XN54DO	14:46	3
1/04/2019	XN54DO	15:04	3
1/04/2019	XN54DO	15:29	3
1/04/2019	XN54DO	15:50	3
1/04/2019	XN54DO	16.13	3
1/04/2019	BL35JA	08:17	12.5
1/04/2019	BL35JA	08:44	12.5
1/04/2019	CP60LI	07:53	12.4
1/04/2019	CL40HT	13:20	12.35
1/04/2019	CP60LI	14:03	12.5
1/04/2019	CL40HT	14:38	12.2
1/04/2019	XDY070	14:49	10
1/04/2019	AD23FS	07:32	11.95
1/04/2019	CL40HT	07:41	38.5
1/04/2019	CL40HT	09:28	38.55
1/04/2019	CL40HT	11:13	38.45
2/04/2019	GQ0004	09:46	33.1
2/04/2019	GQ0004	12.02	32.8
2/04/2019	XN93CP	09:00	12.95
2/04/2019	XN93CP	10.01	13
2/04/2019	XN93CP	10.50	13.1
2/04/2019	XN93CP	11:49	13.15
2/04/2019	BV35BT	07:58	38.5
2/04/2019	BV35BT	09:41	38.45
2/04/2019	BV35BT	11:40	38.55
3/04/2019	GQ0004	09:45	13.1
3/04/2019	BY80LZ	11:09	32.4
3/04/2019	XN93CP	10:26	3
3/04/2019	XN93CP	11.14	3

Date	Rego	Time	Weight (t)
3/04/2019	XN93CP	12.04	3
3/04/2019	XN93CP	15.33	3
4/04/2019	XN54FS	10:34	33
4/04/2019	XN93CP	13:51	3
4/04/2019	XN93CP	14:27	3
4/04/2019	XN93CP	14:55	3
4/04/2019	XN93CP	15:21	3
4/04/2019	XN93CP	16:07	3
5/04/2019	BY80LZ	07:46	32.25
5/04/2019	BY80LZ	08:42	32.15
5/04/2019	BY80LZ	09:40	32.05
5/04/2019	BY80LZ	12:06	32.3
5/04/2019	BY80LZ	13:42	32.2
5/04/2019	BY80LZ	14:38	32.1
5/04/2019	BY80LZ	15:33	32.1
5/04/2019	GQ0004	10:58	33.15
5/04/2019	XN54FS	11:20	33.1
5/04/2019	GQ0004	13:35	33.15
5/04/2019	LM68VL	14:29	33.05
5/04/2019	BY80LZ	11:05	32.25
5/04/2019	XN93CP	10:22	12.9
5/04/2019	XN93CP	11.10	12.85
5/04/2019	XN93CP	14:40	3
5/04/2019	XN93CP	15:21	3
5/04/2019	CN93ZT	07:20	38.65
5/04/2019	CN93ZT	09:02	38.6
5/04/2019	CN93ZT	10:51	38.5
5/04/2019	BY80LZ	11:05	32.25
5/04/2019	BY80LZ	11:05	32.25
8/04/2019	XDY070	13:58	9.7
8/04/2019	XDY070	15:29	9.3
8/04/2019	AD23FS	07:53	12.7
8/04/2019	AD23FS	09:38	12.45
8/04/2019	BY68YC	07:22	32.35
8/04/2019	BY68YC	09:43	32.2
8/04/2019	BY68YC	11:06	32.3
8/04/2019	BY68YC	12:36	32.15
8/04/2019	BY68YC	14:35	32.3
9/04/2019	GQ0004	10:28	32.75
9/04/2019	GQ0004	15:03	33.05
9/04/2019	CK90FH	16:17	33.05
9/04/2019	CC97ME	09:33	27.5
9/04/2019	XDY070	12:37	9.05
9/04/2019	XDY070	15:57	9.35
9/04/2019	XDY070	14:00	7.9
9/04/2019	XDY070	14:03	4
9/04/2019	CL90FS	08:10	32.15
9/04/2019	CL90FS	13:26	32.1
10/04/2019	CC97ME	10:01	28.5
10/04/2019	CC97ME	13:35	27.65
10/04/2019	CC97ME	12:47	12.4
10/04/2019	CC97ME	14:50	12.5
10/04/2019	CC97ME	14:53	15.05
10/04/2019	CC97ME	11:59	12.35
10/04/2019	CL40HT	12:12	38.65
10/04/2019	CL40HT	13:52	38.55

Date	Rego	Time	Weight (t)
10/04/2019	CC90FS	14:00	32.2
10/04/2019	CL40HT	15:29	38.6
11/04/2019	CP23PU	09:31	32.9
11/04/2019	CP23PU	13:05	32.95
11/04/2019	CL40HT	07:32	38.6
11/04/2019	CC70ME	08:16	11.95
12/04/2019	CC90FS	07:51	19.7
13/04/2019	CM68VL	08:21	32.9
13/04/2019	XN54FS	09:22	32.95
13/04/2019	CM68VL	10:32	32.95
13/04/2019	XN54FS	11:26	32.95
15/04/2019	CM68VL	11:20	32.85
15/04/2019	CM68VL	15:04	32.9
15/04/2019	BY68YC	11.01	32
15/04/2019	CL40HT	12:04	38.4
15/04/2019	CC97ME	11:50	27.55
15/04/2019	BY68YC	08:14	12.35
15/04/2019	BY68YC	08:38	12.35
15/04/2019	BY68YC	08:54	12.35
15/04/2019	BY68YC	09:22	12.35
15/04/2019	BY68YC	09:47	12.3
15/04/2019	BY68YC	10:07	12.35
15/04/2019	BY68YC	10:25	12.4
15/04/2019	CM17GJ	13:45	12.45
16/04/2019	CL40HT	07:15	38.5
16/04/2019	CL40HT	09:07	38.6
16/04/2019	CL40HT	10:56	38.55
16/04/2019	CM68VL	09:44	32.9
16/04/2019	BY80LZ	14:18	32.55
17/04/2019	CP60LI	08:30	13
17/04/2019	CH97TC	13:39	12.55
17/04/2019	CH97TC	14:52	12.5
17/04/2019	CH97TC	16:00	12.5
17/04/2019	GQ0004	14:08	33.05
17/04/2019	BV35BT	10:01	12
18/04/2019	GQ0004	09:03	32.9
18/04/2019	GQ0004	11:11	33.05
18/04/2019	GQ0004	13:35	32.8
18/04/2019	GQ0004	16:33	33
18/04/2019	CP60LI	12:19	12.45
23/04/2019	GQ0004	09:42	32.6
23/04/2019	CP23PU	11:43	32.85
23/04/2019	GQ0004	12:26	31.6
23/04/2019	CP23PU	14:52	32.8
23/04/2019	GQ0004	15:52	33
24/04/2019	GQ0002	09:24	15.95
26/04/2019	XN93CP	07:54	10.35
26/04/2019	XN93CP	09.03	10.55
26/04/2019	XN93CP	09.30	10.1
26/04/2019	XN93CP	10:25	14.7
26/04/2019	XN93CP	11:00	14.75
26/04/2019	XN93CP	11:43	14.45
26/04/2019	CC97ME	12:58	27.5
26/04/2019	CC97ME	14:29	27.5
26/04/2019	GQ0004	10:18	33.2
26/04/2019	XN54FS	10:52	32.95

Date	Rego	Time	Weight (t)
26/04/2019	CP60LI	14:55	12.75
26/04/2019	CP08UB	09:12	13.5
26/04/2019	CP08UB	11:54	13.5
26/04/2019	CP08UB	14:05	13.5
29/04/2019	CN93ZT	07:42	38.45
29/04/2019	XN54FS	13:06	33
29/04/2019	CC97ME	09:21	27.5
29/04/2019	CC97ME	11:02	27.5
29/04/2019	CC97ME	12:11	27.4
29/04/2019	CN70EQ	14:40	32.6
30/04/2019	CL40HT	07:10	38.5
30/04/2019	CN93ZT	07:43	38.5
30/04/2019	CL40HT	09:06	38.45
30/04/2019	CN93ZT	09:20	38.55
30/04/2019	XN54FS	11:00	33.05
30/04/2019	XN49DO	11:23	13
30/04/2019	XN54FS	14:56	32.95
30/04/2019	BM70VW	08:17	32.05
30/04/2019	BM70VW	10:46	32.05
30/04/2019	BM70VW	09:27	12.4
1/05/2019	BY80LZ	11:55	32.2
1/05/2019	CH97TC	07:22	38.05
1/05/2019	CH97TC	08:38	38
2/05/2019	CM68VL	15:02	32.95
2/05/2019	CH97TC	10:23	38.05
2/05/2019	CH97TC	12:08	38.1
3/05/2019	CB09PE	13:02	13.05
3/05/2019	CM68VL	07:43	33
3/05/2019	GQ0004	09:37	33.05
3/05/2019	GQ0004	12:42	33.05
3/05/2019	GQ0004	15:17	33.1
3/05/2019	CC90FS	10:25	32.15
3/05/2019	CN93ZT	12:47	12.45
3/05/2019	CN93ZT	07:29	38.55
3/05/2019	CN93ZT	09:09	38.6
3/05/2019	CN93ZT	11:02	38.55
3/05/2019	CN93ZT	13:35	38.55
6/05/2019	CP23PU	08:25	33.05
6/05/2019	GQ0004	08:32	33.05
6/05/2019	XN93CP	07:44	3
6/05/2019	CN93ZT	11:21	38.5
6/05/2019	BV35BT	11:45	38.5
6/05/2019	CL40HT	12:26	38.5
6/05/2019	CN93ZT	13:19	38.5
6/05/2019	CL40HT	15:04	38.45
6/05/2019	CN93ZT	15:16	38.45
7/05/2019	CC90FS	16:25	32
7/05/2019	CC90FS	07:19	32.1
7/05/2019	BY68YC	07:25	31.95
7/05/2019	BM70UW	07:31	32
7/05/2019	BV35BT	07:39	38.55
7/05/2019	CN93ZT	08:00	38.55
7/05/2019	CC90FS	08:45	32.1
7/05/2019	BY68YC	09:04	31.95
7/05/2019	BM70UW	09:11	32.05
7/05/2019	BV35BT	09:18	38.45

Date	Rego	Time	Weight (t)
7/05/2019	CN93ZT	09:27	38.55
7/05/2019	CC90FS	10:18	32.1
7/05/2019	BY68YC	10:25	32
7/05/2019	BM70UW	10:36	32.05
7/05/2019	BV35BT	10:52	38.5
7/05/2019	CN98ZT	10:58	38.6
7/05/2019	CC90FS	11:50	32.15
7/05/2019	BY68YC	11:55	32.1
7/05/2019	BM70UW	12:03	32.1
7/05/2019	BV35BT	12:29	38.55
7/05/2019	CN93ZT	12:46	38.5
7/05/2019	CC90FS	13:22	32.1
7/05/2019	BY68YC	13:28	32.15
7/05/2019	BM70UW	13:43	32.05
7/05/2019	BV35BT	14:07	38.45
7/05/2019	CN93ZT	14:13	38.6
7/05/2019	CC90FS	14:56	32
7/05/2019	BY68YC	15:01	32.05
7/05/2019	CK90FH	13:36	39.3
7/05/2019	CN70EQ	14:49	32.4
7/05/2019	CK90FS	15:27	39.3
7/05/2019	CN70EQ	16:00	32.5
7/05/2019	CN70EQ	11:35	32.7
7/05/2019	CL40HT	07:11	38.4
7/05/2019	CL40HT	08:57	38.4
7/05/2019	CL40HT	12:39	38.55
7/05/2019	CL40HT	14:26	38.55
7/05/2019	BV35BT	15:50	38.4
8/05/2019	CC97ME	07:09	27.45
8/05/2019	AL35SR	14:38	6
8/05/2019	GQ0004	11:14	33
8/05/2019	GQ0004	14:00-	32.90
8/05/2019	XN32JZ	14:05	13.1
8/05/2019	BY68YC	16:35	32.05
8/05/2019	CN93ZT	07:27	38.55
8/05/2019	CL40HT	07:35	38.55
8/05/2019	CM17GJ	07:42	32.55
8/05/2019	CH97TC	07:19	38.4
8/05/2019	BY68YC	08:03	32
8/05/2019	CH97TC	08:27	38.4
8/05/2019	CN93ZT	08:33	38.4
8/05/2019	CL40HT	08:42	38.45
8/05/2019	CM17GJ	08:49	32.45
8/05/2019	CH97TC	09:23	38.2
8/05/2019	CN93ZT	09:33	38.45
8/05/2019	CL40HT	09:45	38.4
8/05/2019	CM17GJ	09:50	32.45
8/05/2019	BY68YC	10:24	32
8/05/2019	CH97TC	10:31	38.25
8/05/2019	CN93ZT	10:39	38.6
8/05/2019	CL40HT	10:45	38.55
8/05/2019	CM17GJ	10:50	32.5
8/05/2019	BY68YC	11:22	32.15
8/05/2019	CH97TC	11:29	38.2
8/05/2019	CN93ZT	11:36	38.6
8/05/2019	CL40HT	11:43	38.4

Date	Rego	Time	Weight (t)
8/05/2019	BY68YC	12:18	32.05
8/05/2019	CH97TC	12:30	38.2
8/05/2019	CN93ZT	12:37	38.4
8/05/2019	CL40HT	12:44	38.5
8/05/2019	BY68YC	13:14	32.2
8/05/2019	CM17GJ	13:20	32.3
8/05/2019	CH97TC	13:28	38.3
8/05/2019	CN93ZT	13:36	38.4
8/05/2019	CL40HT	13:43	38.4
8/05/2019	CM17GJ	14:23	32.45
8/05/2019	CH97TC	15:00	38.25
8/05/2019	CN93ZT	15:06	38.5
8/05/2019	CL40HT	15:12	38.6
8/05/2019	CM17GJ	15:23	32.35
8/05/2019	BY68YC	15:31	32.2
8/05/2019	CH97TC	16:02	38.2
8/05/2019	CN93ZT	16:09	38.4
8/05/2019	CL40HT	16:15	38.55
8/05/2019	CM17GJ	16:21	32.5
8/05/2019	BY68YC	16:27	32.15
8/05/2019	BY68YC	09:00	32.05
8/05/2019	CM17GJ	12:00	32.5
8/05/2019	BY68YC	14:14	32.15
9/05/2019	AD23FS	08:36	10.15
9/05/2019	AD23FS	10:13	10.35
9/05/2019	AD23FS	11:15	10.05
9/05/2019	AD23FS	13:11	10
9/05/2019	TSP279	11:08	12
9/05/2019	TSP279	12:04	12.15
9/05/2019	TSP279	17:00	29.45
9/05/2019	TSP279	17:27	29.9
9/05/2019	CC90FS	14:00	32
9/05/2019	CL40HT	07:19	38.5
9/05/2019	CH97TC	07:27	38.4
9/05/2019	CN93ZT	07:34	38.55
9/05/2019	CM17GJ	07:40	32.35
9/05/2019	CL40HT	08:17	38.55
9/05/2019	BY68YC	08:47	32.1
9/05/2019	CH97TC	08:53	38.25
9/05/2019	CK93ZT	08:58	38.6
9/05/2019	CM17GJ	09:08	32.5
9/05/2019	CL40HT	09:16	38.8
9/05/2019	BY68YC	09:47	32.2
9/05/2019	CH97TC	09:52	38.25
9/05/2019	CK93ZT	09:58	38.85
9/05/2019	CM17GJ	10:03	32.5
9/05/2019	CL40HT	10:21	38.85
9/05/2019	CH97TC	10:53	38.4
9/05/2019	CK93ZT	11:05	38.65
9/05/2019	CM17GJ	11:21	32.45
9/05/2019	CL40HT	11:27	38.85
9/05/2019	CH97TC	12:00	38.1
9/05/2019	BY68YC	12:10	32.2
9/05/2019	CK93ZT	12:16	38.8
9/05/2019	CM17GJ	12:22	32.3
9/05/2019	CH97TC	13:20	38.35

Date	Rego	Time	Weight (t)
9/05/2019	BY68YC	13:25	32.1
9/05/2019	CM17GJ	13:30	32.4
9/05/2019	CH97TC	14:20	38.2
9/05/2019	BY68YC	14:26	32.25
9/05/2019	CL40HT	14:33	38.75
9/05/2019	CM17GJ	14:38	32.3
9/05/2019	CL90FS	15:08	32.05
9/05/2019	CH97TC	15:16	38.3
9/05/2019	BY68YC	15:22	32.35
9/05/2019	CM17GJ	15:44	32.55
9/05/2019	CL90FS	16:04	32.25
9/05/2019	CH97TC	16:13	38.3
9/05/2019	BY68YC	16:19	32.25
9/05/2019	BY68YC	07:09	32.1
9/05/2019	BY68YC	10:44	32.1
9/05/2019	CL40HT	13:00	38.6
9/05/2019	CL40HT	15:37	38.75
10/05/2019	CC90FS	07:09	32.15
10/05/2019	BY68YC	07:16	32
10/05/2019	CL40HT	07:23	38.75
10/05/2019	CH97TC	07:30	38.3
10/05/2019	CN93ZT	07:37	38.8
10/05/2019	CC90FS	08:05	32.25
10/05/2019	BY68YC	08:12	32.25
10/05/2019	CL40HT	08:21	38.85
10/05/2019	CH97TC	08:38	38.2
10/05/2019	CN93ZT	08:53	38.9
10/05/2019	CC90FS	09:11	32.25
10/05/2019	BY68YC	09:18	32.15
10/05/2019	GQ0004	09:26	32.8
10/05/2019	CL40HT	09:37	38.75
10/05/2019	CH97TC	09:46	38.15
10/05/2019	CL90FS	10:12	31.95
10/05/2019	BY68YC	10:25	32.25
10/05/2019	CL40HT	10:40	38.9
10/05/2019	CH97TC	10:46	38.2
10/05/2019	CN93ZT	10:58	38.85
10/05/2019	BY68YC	11:20	32.2
10/05/2019	CN70EQ	11:36	32.6
10/05/2019	CL40HT	11:46	38.85
10/05/2019	CH97TC	11:54	38.3
10/05/2019	CC90FS	11:59	32.2
10/05/2019	BY68YC	12:13	32.35
10/05/2019	CN93ZT	12:41	38.65
10/05/2019	CC40HT	12:47	38.8
10/05/2019	CH97TC	12:54	38.15
10/05/2019	CC90FS	12:59	32.15
10/05/2019	BY68YC	13:07	32.2
10/05/2019	CN93ZT	13:42	38.7
10/05/2019	CC40HT	13:48	38.8
10/05/2019	CH97TC	13:54	38.35
10/05/2019	CC90FS	13:59	32.15
10/05/2019	BY68YC	14:06	32.15
10/05/2019	CN93ZT	14:42	38.55
10/05/2019	CL40HT	14:48	38.8
10/05/2019	CH97TC	14:54	38.15

Date	Rego	Time	Weight (t)
10/05/2019	CC90FS	14:58	32.2
10/05/2019	BY68YC	15:08	32.25
10/05/2019	CL40HT	15:47	38.8
10/05/2019	CH97TC	15:59	38.25
10/05/2019	CC90FS	16:05	32.2
10/05/2019	BY68YC	16:11	32.2
10/05/2019	CN93ZT	16:24	38.75
10/05/2019	TSP279	16:43	36.1
10/05/2019	TSP279	17:09	36.25
11/05/2019	CN93ZT	10:55	38.8
11/05/2019	CL40HT	11:30	38.7
11/05/2019	CN93ZT	08:09	38.95
11/05/2019	CL40HT	08:19	38.75
11/05/2019	CN93ZT	09:33	38.85
11/05/2019	CL40HT	09:59	38.85
13/05/2019	BM70UW	07:27	31.8
13/05/2019	CH97TC	07:37	38
13/05/2019	CK66NE	07:45	32.75
13/05/2019	CL40HT	07:54	38.6
13/05/2019	CN93ZT	08:02	38.4
13/05/2019	CK90FH	08:17	13
13/05/2019	YN21DQ	08:27	20
13/05/2019	BM70UW	08:39	31.9
13/05/2019	CH97TC	08:49	38.05
13/05/2019	CK66NE	09:10	32.95
13/05/2019	CL40HT	09:19	38.5
13/05/2019	CN93ZT	09:26	38.6
13/05/2019	BM70UW	09:37	32.1
13/05/2019	YWW895	10:00	13.2
13/05/2019	CH97TC	10:00	38.2
13/05/2019	CL40HT	10:19	38.55
13/05/2019	CK66NE	10:26	32.85
13/05/2019	CN93ZT	10:34	39
13/05/2019	BM70UW	11:06	31.9
13/05/2019	CL40HT	11:18	38.6
13/05/2019	CH97TC	11:26	38.05
13/05/2019	CK66NE	11:35	32.85
13/05/2019	CN93ZT	11:43	38.7
13/05/2019	XN32JZ	12:11	13.05
13/05/2019	BM70UW	12:19	31.9
13/05/2019	CL40HT	12:27	38.65
13/05/2019	CH97TC	12:36	38.15
13/05/2019	CK66NE	12:45	32.35
13/05/2019	CN93ZT	13:05	38.55
13/05/2019	XN54FS	13:32	32.95
13/05/2019	BM70UW	13:41	32.1
13/05/2019	CL40HT	13:48	38.5
13/05/2019	CK66NE	13:55	32.8
13/05/2019	CH97TC	14:04	37.5
13/05/2019	CN93ZT	14:11	38.3
13/05/2019	BM70UW	14:34	31.9
13/05/2019	CL40HT	14:43	38.7
13/05/2019	CK66NE	14:53	32.9
13/05/2019	CH97TC	15:04	37.95
13/05/2019	CN93ZT	15:10	38.7
13/05/2019	BM70UW	15:29	32.1

Date	Rego	Time	Weight (t)
13/05/2019	CL40HT	15:37	38.85
13/05/2019	CK66NE	15:48	32.85
13/05/2019	CH97TC	16:04	38.05
13/05/2019	CN93ZT	16:12	39.1
13/05/2019	BM70UW	16:20	31.7
13/05/2019	CL40HT	16:29	38.5
13/05/2019	CH97TC	17:02	38.2
13/05/2019	CN93ZT	17:09	38.9
14/05/2019	CL40HT	07:08	38.45
14/05/2019	BM70UW	07:18	32.15
14/05/2019	CK66NE	07:25	38.85
14/05/2019	CN93ZT	07:32	38.3
14/05/2019	CH97TC	07:39	38.95
14/05/2019	CL40HT	08:08	32.15
14/05/2019	BM70UW	08:16	33
14/05/2019	XJ93CP	08:33	10.15
14/05/2019	CK66NE	08:39	38.95
14/05/2019	CN93ZT	08:45	32.9
14/05/2019	CM68VL	09:09	38.3
14/05/2019	CH97TC	09:17	38.65
14/05/2019	CL40HT	09:25	32.05
14/05/2019	BM70UW	09:32	32.9
14/05/2019	CK66NE	09:39	38.8
14/05/2019	CN93ZT	10:00	38
14/05/2019	CH97TC	10:25	38.55
14/05/2019	CH40HT	10:32	32.1
14/05/2019	BM70UW	10:40	33
14/05/2019	CK66NE	10:47	38.85
14/05/2019	CM17GJ	11:09	13
14/05/2019	CN93ZT	11:16	38.1
14/05/2019	CH97TC	11:34	38.7
14/05/2019	CL40HT	11:40	32.15
14/05/2019	BM70UW	11:47	33.05
14/05/2019	CK66NE	12:00	33.05
14/05/2019	CN93ZT	12:14	38.9
14/05/2019	CH97TC	12:32	38.35
14/05/2019	CL40HT	12:39	38.7
14/05/2019	BM70UW	12:46	32
14/05/2019	CK66NE	13:02	33
14/05/2019	CN93ZT	13:12	38.7
14/05/2019	CC97ME	13:47	27.65
14/05/2019	CH97TC	13:58	38.3
14/05/2019	CL40HT	14:05	38.65
14/05/2019	BM70UW	14:10	32.25
14/05/2019	CK66NE	14:15	32.95
14/05/2019	CN93ZT	14:20	38.9
14/05/2019	CC97ME	14:55	27.65
14/05/2019	CL40HT	15:14	38.95
14/05/2019	BM70UW	15:18	32.15
14/05/2019	CK66NE	15:24	33.05
14/05/2019	CN93ZT	15:29	38.85
14/05/2019	CH97TC	15:53	38.25
14/05/2019	CL40HT	16:09	38.8
14/05/2019	BM70UW	16:16	32
14/05/2019	CK66NE	16:21	33.05
14/05/2019	CN93ZT	16:27	38.9

Date	Rego	Time	Weight (t)
14/05/2019	CH97TC	16:54	38.2
14/05/2019	CL40HT	17:04	38.75
15/05/2019	CN93ZT	07:05	38.95
15/05/2019	CL40HT	07:12	38.95
15/05/2019	CH97TC	07:23	32.35
15/05/2019	BY68YC	07:28	38.95
15/05/2019	CN17GJ	07:55	12.9
15/05/2019	CN93ZT	08:02	38.95
15/05/2019	CL40HT	08:08	38.45
15/05/2019	CH97TC	08:21	32.3
15/05/2019	BY68YC	08:27	32.05
15/05/2019	CC90FS	08:35	38.9
15/05/2019	CN93ZT	09:00	38.95
15/05/2019	CL40HT	09:08	38.35
15/05/2019	CN17GJ	09:23	12.95
15/05/2019	CH97TC	09:30	32.5
15/05/2019	BY68YC	09:36	32.1
15/05/2019	CC90FS	10:01	39
15/05/2019	CN93ZT	10:08	38.9
15/05/2019	AD23FS	10:18	12.85
15/05/2019	CL40HT	10:38	32.4
15/05/2019	BY68YC	10:43	38.4
15/05/2019	CH97TC	11:00	32.25
15/05/2019	CC90FS	11:07	38.95
15/05/2019	CN93ZT	11:15	38.85
15/05/2019	CF72RB	11:21	12.35
15/05/2019	CL40HT	11:33	32.55
15/05/2019	CM17GJ	12:00	38.4
15/05/2019	CH97TC	12:07	32.25
15/05/2019	CC90FS	12:14	32.25
15/05/2019	CN93ZT	12:21	38.9
15/05/2019	CL40HT	12:27	38.75
15/05/2019	CM17GJ	13:04	32.55
15/05/2019	CH97TC	13:12	38.3
15/05/2019	CC90FS	13:19	32
15/05/2019	CN93ZT	13:25	39
15/05/2019	CL40HT	13:32	39
15/05/2019	CM17GJ	14:00	32.4
15/05/2019	CH97TC	14:13	38.35
15/05/2019	CC90FS	14:19	32.2
15/05/2019	CN93ZT	14:25	38.95
15/05/2019	CL40HT	14:32	38.8
15/05/2019	XN54FS	15:03	33.05
15/05/2019	CM17GJ	15:11	32.25
15/05/2019	CH97TC	15:17	38.35
15/05/2019	CC90FS	15:23	32.05
15/05/2019	CN93ZT	15:30	38.85
15/05/2019	CL40HT	16:00	38.9
15/05/2019	GQ0004	16:11	32.95
15/05/2019	CM17GJ	16:20	32.25
15/05/2019	CH97TC	16:27	38.35
15/05/2019	CF72RB	16:32	12.4
16/05/2019	CL40HT	07:08	38.8
16/05/2019	CN93ZT	07:14	38.9
16/05/2019	CC90FS	07:21	32.25
16/05/2019	BM70UW	07:27	32.05

Date	Rego	Time	Weight (t)
16/05/2019	CH97TC	07:36	38.3
16/05/2019	CL40HT	08:03	38.75
16/05/2019	CN93ZT	08:11	38.9
16/05/2019	CC90FS	08:17	32.3
16/05/2019	BM70UW	08:24	32.15
16/05/2019	CH97TC	08:35	38.35
16/05/2019	CF72RB	09:00	7
16/05/2019	CL40HT	09:08	38.8
16/05/2019	CN93ZT	09:15	38.95
16/05/2019	CC90FS	09:21	32.25
16/05/2019	BM70UW	09:27	32.25
16/05/2019	CH97TC	10:00	38.45
16/05/2019	CL40HT	10:09	38.7
16/05/2019	CN93ZT	10:18	38.85
16/05/2019	CC90FS	10:25	32.1
16/05/2019	CK66NE	10:58	32.9
16/05/2019	CH97TC	11:06	38.3
16/05/2019	CC40HT	11:13	38.75
16/05/2019	CN93ZT	11:21	38.8
16/05/2019	CC90FS	11:28	32.2
16/05/2019	CK66NE	11:57	32.7
16/05/2019	CH97TC	12:09	38.2
16/05/2019	CL40HT	12:16	38.85
16/05/2019	CN93ZT	12:22	38.95
16/05/2019	CC90FS	12:28	32.15
16/05/2019	CK66NE	12:58	33
16/05/2019	CH97TC	13:10	38.3
16/05/2019	CL40HT	13:18	38.95
16/05/2019	CN93ZT	13:28	38.85
16/05/2019	CC90FS	13:34	32.1
16/05/2019	TSP279	14:00	12.1
16/05/2019	TSP279	14:41	12.1
16/05/2019	TSP279	14:57	12
16/05/2019	TSP279	15:26	12.1
16/05/2019	CM68UL	16:06	33
17/05/2019	CM68VL	08:05	32.85
17/05/2019	CM68VL	11:12	33
17/05/2019	CM68VL	14:48	32.95
17/05/2019	CK90FH	12:29	32.55
17/05/2019	CC97ME	14:20	27.55
20/05/2019	CC90FS	07:12	32.25
20/05/2019	CN93ZT	07:31	38.9
20/05/2019	CL40HT	07:56	38.75
20/05/2019	BY68YC	08:05	32.2
20/05/2019	CC90FS	08:15	32.25
20/05/2019	CN93ZT	08:30	38.85
20/05/2019	CC90FS	09:10	32.1
20/05/2019	CL40HT	09:32	38.8
20/05/2019	BY68YC	09:39	32.2
20/05/2019	CN93ZT	09:47	38.85
20/05/2019	CC90FS	10:16	32.3
20/05/2019	CN93ZT	10:57	38.7
20/05/2019	CL40HT	11:16	38.85
20/05/2019	CC90FS	11:33	32.05
20/05/2019	YWW895	11:44	7.45
20/05/2019	CN93ZL	11:53	38.65

Date	Rego	Time	Weight (t)
20/05/2019	CL40HT	12:10	38.6
20/05/2019	CC90FS	12:26	32.1
20/05/2019	CN93ZT	13:01	38.7
20/05/2019	CL40HT	13:09	38.7
20/05/2019	CC90FS	13:25	32.15
20/05/2019	CN93ZT	13:56	38.9
20/05/2019	CL40HT	14:05	39
20/05/2019	CC90FS	14:26	32.1
20/05/2019	CN93ZT	14:55	38.7
20/05/2019	CL40HT	15:10	38.9
20/05/2019	CC90FS	15:25	32.25
20/05/2019	ADJ BK	14:38	12.55
21/05/2019	CL40HT	07:08	38.6
21/05/2019	CL90FS	07:15	32.2
21/05/2019	CN93ZT	07:22	38.85
21/05/2019	CM17GJ	07:28	32.65
21/05/2019	BY68YC	07:35	32.2
21/05/2019	CL40HT	08:05	38.6
21/05/2019	CK90FH	08:23	39.6
21/05/2019	CL90FS	08:28	32.05
21/05/2019	CN93ZT	08:34	38.9
21/05/2019	CM17GJ	08:40	32.7
21/05/2019	TSP279	08:46	36.2
21/05/2019	BY68YC	09:02	32.15
21/05/2019	CC97ME	09:24	27.8
21/05/2019	CL40HT	09:31	38.8
21/05/2019	CK90FH	09:40	39.4
21/05/2019	CC90FS	09:46	32.15
21/05/2019	CN93ZT	10:01	38.7
21/05/2019	GQ0004	10:16	32.75
21/05/2019	BY68YC	10:24	32.1
21/05/2019	CM17GJ	10:29	25.1
21/05/2019	CL40HT	10:45	38.9
21/05/2019	XN54FS	11:02	32.95
21/05/2019	CL90FS	11:10	32.1
21/05/2019	CN93ZT	11:19	38.5
21/05/2019	CK90FH	11:35	39.6
21/05/2019	BY68YC	11:44	32.35
21/05/2019	CC97ME	12:00	27.55
21/05/2019	CL40HT	12:10	38.9
21/05/2019	CC90FS	12:15	32.1
21/05/2019	GQ0004	12:32	32.95
21/05/2019	CN93ZT	12:39	38.95
21/05/2019	BY68YC	13:00	32.15
21/05/2019	CL40HT	13:07	38.9
21/05/2019	CC90FS	13:13	32.15
21/05/2019	CK90FH	13:36	39.5
21/05/2019	CN93ZT	13:44	39
21/05/2019	BY68YC	14:00	32.2
21/05/2019	CH97TC	14:16	38.1
21/05/2019	CC90FS	14:29	32
21/05/2019	CL40HT	14:38	39.05
21/05/2019	CK90FH	14:49	39.3
21/05/2019	CN93ZT	15:00	38.8
21/05/2019	BY68YC	15:06	32.25
21/05/2019	CC97ME	15:24	27.7

Date	Rego	Time	Weight (t)
21/05/2019	CC90FS	15:37	32.15
21/05/2019	BI88CH	15:38	7
21/05/2019	CL40HT	16:00	38.9
21/05/2019	CH97TC	16:09	38.25
21/05/2019	CK90FH	16:18	39.35
21/05/2019	TSP279	16:35	25.95
21/05/2019	TSP279	16:56	26.05
22/05/2019	BV35BT	12:34	25.99
22/05/2019	CL40HT	07:10	38.85
22/05/2019	BY68YC	07:18	32.15
22/05/2019	CN93ZT	07:25	38.85
22/05/2019	CH97TC	07:32	38.25
22/05/2019	AD23FS	07:45	12.80
22/05/2019	CL40HT	08:11	38.8
22/05/2019	BY68YC	08:18	32.1
22/05/2019	CN93ZT	08:26	38.85
22/05/2019	CH97TC	08:42	38.25
22/05/2019	CL40HT	09:16	38.9
22/05/2019	BY68YC	09:22	32.25
22/05/2019	CN93ZT	09:28	38.85
22/05/2019	CH97TC	09:45	38.25
22/05/2019	AB30SH	10:15	12.15
22/05/2019	CL40HT	10:26	38.9
22/05/2019	BY68YC	10:32	32.15
22/05/2019	CN93ZT	10:38	38.95
22/05/2019	CH97TC	10:44	38.2
22/05/2019	AB30SH	11:00	12.3
22/05/2019	CL40HT	11:21	38.6
22/05/2019	AB30SH	11:24	12.25
22/05/2019	BY68YC	11:33	32.05
22/05/2019	CN93ZT	11:42	39
22/05/2019	CH97TC	12:01	38.35
22/05/2019	AB30SH	12:05	12.2
22/05/2019	CL40HT	12:29	38.8
22/05/2019	BY68YC	12:36	32.15
22/05/2019	CN93ZT	12:44	38.65
22/05/2019	CH97TC	13:06	38.15
22/05/2019	CL40HT	13:44	38.5
22/05/2019	BY68YC	13:49	32.1
22/05/2019	AB30SH	13:54	12.25
22/05/2019	CN93ZT	13:59	38.95
22/05/2019	CH97TC	14:08	38.15
22/05/2019	AB30SH	14:13	12.35
22/05/2019	CL40HT	14:37	38.95
22/05/2019	BY68YC	14:42	32.05
22/05/2019	AB30SH	14:46	12.2
22/05/2019	CN93ZT	15:00	38.75
22/05/2019	CH97TC	15:06	38.35
22/05/2019	AB30SH	15:09	12.2
22/05/2019	CL40HT	15:32	38.65
22/05/2019	BY68YC	15:38	32.15
22/05/2019	CN93ZT	16:00	38.8
22/05/2019	CH97TC	16:07	38
23/05/2019	BY68YC	07:08	32.25
23/05/2019	XN34AY	07:14	31.95
23/05/2019	CN93ZT	07:20	38.9

Date	Rego	Time	Weight (t)
23/05/2019	CH97TC	07:27	38.2
23/05/2019	XN50DO	07:39	3
23/05/2019	BY68YC	08:02	32.3
23/05/2019	XN34AY	08:08	32.05
23/05/2019	CN93ZT	08:16	38.95
23/05/2019	CH97TC	08:24	38.3
23/05/2019	CL40HT	08:36	38.85
23/05/2019	BY68YC	09:00	32.1
23/05/2019	XN34AY	09:05	32
23/05/2019	CN93ZT	09:12	38.7
23/05/2019	CL40HT	09:35	39
23/05/2019	CH97TC	09:45	37.95
23/05/2019	BY68YC	10:25	32.1
23/05/2019	XN34AY	10:32	32.1
23/05/2019	CN93ZT	10:40	39
23/05/2019	CH97TC	10:56	38.2
23/05/2019	CL40HT	11:03	38.8
23/05/2019	BY68YC	11:21	32.1
23/05/2019	XN34AY	11:36	31.95
23/05/2019	CN93ZT	11:50	38.9
23/05/2019	CH97TC	11:57	38.3
23/05/2019	CL40HT	12:04	38.65
23/05/2019	BY68YC	12:17	32.25
23/05/2019	XN34AY	12:30	32.05
23/05/2019	CN93ZT	12:52	38.6
23/05/2019	CH97TC	13:00	38.05
23/05/2019	TB98VS	13:15	32.1
23/05/2019	CL40HT	13:28	38.95
23/05/2019	XN34AY	13:46	31.95
23/05/2019	CK66NE	13:53	33.1
23/05/2019	CN93ZT	14:00	38.8
23/05/2019	TME583	14:05	3
23/05/2019	CH97TC	14:12	38.15
23/05/2019	BY68YC	14:18	32.15
23/05/2019	CL40HT	14:29	39
23/05/2019	XN34AY	15:00	32.05
23/05/2019	CN93ZT	15:06	38.95
23/05/2019	BY68YC	15:19	32.25
23/05/2019	CH97TC	15:25	38.25
23/05/2019	TME583	15:42	2.95
23/05/2019	XN34AY	16:00	32.05
23/05/2019	CN93ZT	16:07	38.95
23/05/2019	BY68YC	16:13	32.05
23/05/2019	CK90FH	16:33	39.4
23/05/2019	CH97TC	16:42	38.35
23/05/2019	AW37KH	17:05	3.95
23/05/2019	XN50DO	08:42	2.90
24/05/2019	AB80LV	07:53	12.9
27/05/2019	CL40HT	07:07	38.85
27/05/2019	CH97TC	07:14	38.45
27/05/2019	CC90FS	07:20	32.15
27/05/2019	BV35BT	07:27	38.5
27/05/2019	CL40HT	08:05	38.65
27/05/2019	CH97TC	08:12	38.3
27/05/2019	CC90FS	08:19	32.15
27/05/2019	BV35BT	08:27	38.5

Date	Rego	Time	Weight (t)
27/05/2019	CN93ZT	08:35	38.8
27/05/2019	CL40HT	09:00	39
27/05/2019	CH97TC	09:11	38.3
27/05/2019	CC90FS	09:17	32.2
27/05/2019	BV35BT	09:28	38.4
27/05/2019	CN93ZT	09:33	39
27/05/2019	CL40HT	10:03	38.95
27/05/2019	CH97TC	10:08	38.25
27/05/2019	CC90FS	10:16	32.2
27/05/2019	CN93ZT	10:29	39
27/05/2019	BV35BT	10:37	38.5
27/05/2019	CH97TC	11:12	38.2
27/05/2019	CC90FS	11:18	32.15
27/05/2019	CN93ZT	11:25	38.9
27/05/2019	CM17GJ	11:35	32.3
27/05/2019	BV35BT	11:43	38.5
27/05/2019	CH97TC	12:10	38.35
27/05/2019	CC90FS	12:16	32.2
27/05/2019	CM17GJ	12:32	32.5
27/05/2019	CN93ZT	12:39	38.95
27/05/2019	BV35BT	12:46	38.5
27/05/2019	CH97TC	13:10	38.2
27/05/2019	CC90FS	13:16	32.2
27/05/2019	CM17GJ	13:28	32.4
27/05/2019	CN93ZT	13:37	38.9
27/05/2019	BV35BT	13:56	38.45
27/05/2019	CH97TC	14:04	38.35
27/05/2019	CC90FS	14:11	32.2
27/05/2019	CM17GJ	14:23	32.65
27/05/2019	CN93ZT	14:39	38.85
27/05/2019	CL40HT	14:46	38.8
27/05/2019	BV35BT	15:00	38.45
27/05/2019	CH97TC	15:06	38.35
27/05/2019	CC90FS	15:11	32.1
27/05/2019	CM17GJ	15:18	32.6
27/05/2019	CN93ZT	15:33	38.7
27/05/2019	CH97TC	16:02	38.35
27/05/2019	CC90FS	16:08	32.2
27/05/2019	CM17GJ	16:13	32.6
28/05/2019	ADJ CN	11:49	12.80
28/05/2019	CC90FS	07:09	32.25
28/05/2019	CH97TC	07:16	38.25
28/05/2019	CM17GJ	07:22	32.65
28/05/2019	CN93ZT	07:30	38.8
28/05/2019	XN51AK	07:35	32.25
28/05/2019	CC90FS	08:02	32.2
28/05/2019	CH97TC	08:13	38.3
28/05/2019	CM17GJ	08:19	32.55
28/05/2019	CN93ZT	08:26	38.95
28/05/2019	XN51AK	08:31	32.15
28/05/2019	CC90FS	09:04	32.2
28/05/2019	CH97TC	09:11	38.35
28/05/2019	CM17GJ	09:17	32.6
28/05/2019	XN51AK	09:30	32.25
28/05/2019	CN93ZT	09:37	38.8
28/05/2019	CC90FS	10:01	32.1

Date	Rego	Time	Weight (t)
28/05/2019	CH97TC	10:08	38.3
28/05/2019	CM17GJ	10:14	32.5
28/05/2019	XN51AK	10:29	32.25
28/05/2019	CN93ZT	10:38	39
28/05/2019	CC90FS	11:00	32.2
28/05/2019	CH97TC	11:08	38.25
28/05/2019	CM17GJ	11:14	32.5
28/05/2019	XN51AK	11:27	32.25
28/05/2019	CN93ZT	11:34	38.9
28/05/2019	CH97TC	12:03	38.3
28/05/2019	CM17GJ	12:10	32.6
28/05/2019	XN51AK	12:22	32.2
28/05/2019	CN93ZT	12:33	38.7
28/05/2019	BY80LZ	12:54	32
28/05/2019	CC90FS	13:01	32.25
28/05/2019	CH97TC	13:07	38.35
28/05/2019	CM17GJ	13:12	32.65
28/05/2019	XN51AK	13:18	32.2
28/05/2019	CC97ME	13:27	26.4
28/05/2019	CN93ZT	14:00	38.85
28/05/2019	CC90FS	14:05	32.2
28/05/2019	CH97TC	14:11	38.35
28/05/2019	CM17GJ	14:16	32.65
28/05/2019	XN51AK	14:22	32.2
28/05/2019	CN93ZT	15:00	38.65
28/05/2019	CC90FS	15:05	32.15
28/05/2019	CH97TC	15:11	38.25
28/05/2019	CM17GJ	15:16	32.7
28/05/2019	XN51AK	15:22	32.25
28/05/2019	CN93ZT	16:00	38.9
28/05/2019	CC90FS	16:07	32.15
28/05/2019	CM17GJ	16:14	32.65
28/05/2019	XN51AK	16:19	32.25
30/05/2019	CH97TC	07:12	38.25
30/05/2019	CC90FS	07:18	32.15
30/05/2019	XN51AK	07:24	32.15
30/05/2019	CQ15DS	07:30	32.4
30/05/2019	BV35BT	07:42	38.4
30/05/2019	CK97FH	08:04	39.45
30/05/2019	CH97TC	08:11	38.3
30/05/2019	CC90FS	08:16	32.15
30/05/2019	XN51AK	08:28	32.2
30/05/2019	CQ15DS	08:35	32.5
30/05/2019	BV35BT	09:00	38.4
30/05/2019	CH97TC	09:11	38.3
30/05/2019	XN51AK	09:29	32.2
30/05/2019	CQ15DS	09:34	32.4
30/05/2019	BV35BT	10:03	38.5
30/05/2019	CH97TC	10:11	38.35
30/05/2019	XN51AK	10:28	32.15
30/05/2019	CQ15DS	10:34	32.3
30/05/2019	CC90FS	10:46	32.2
30/05/2019	CH97TC	11:15	38.5
30/05/2019	XN51AK	11:24	32.2
30/05/2019	BV35BT	11:29	38.4
30/05/2019	CQ15DS	11:40	32.5

Date	Rego	Time	Weight (t)
30/05/2019	CC90FS	11:47	32.1
30/05/2019	CH97TC	12:14	38.3
30/05/2019	XN51AK	12:21	32.25
30/05/2019	BV35BT	12:27	38.45
30/05/2019	CQ15DS	12:38	32.45
30/05/2019	CC90FS	12:44	32.2
30/05/2019	CH97TC	13:18	38.35
30/05/2019	XN51AK	13:25	32.15
30/05/2019	BV35BT	13:31	38.45
30/05/2019	CQ15DS	13:39	32.45
30/05/2019	CC90FS	13:46	32.2
30/05/2019	CH97TC	14:16	38.3
30/05/2019	XN51AK	14:22	32.25
30/05/2019	BV35BT	14:28	38.4
30/05/2019	CQ15DS	14:35	32.5
30/05/2019	CC90FS	14:41	32.15
30/05/2019	CH97TC	15:14	38.35
30/05/2019	XN51AK	15:20	32.25
30/05/2019	BV35BT	15:31	38.5
30/05/2019	CQ15DS	15:36	32.5
30/05/2019	CC90FS	15:44	32.15
30/05/2019	CH97TC	16:12	38.2
31/05/2019	CK90FH	12:41	39.45
3/06/2019	BM70UW	8:59	32.05
3/06/2019	CC90FS	9:06	32.2
3/06/2019	CC90FS	10:09	32.25
3/06/2019	CK66NE	11:00	33
3/06/2019	CC90FS	11:07	32.1
3/06/2019	CK66NE	11:53	33.05
3/06/2019	CC90FS	12:01	32.3
3/06/2019	CK66NE	12:46	33.05
3/06/2019	CC90FS	12:56	32.25
3/06/2019	CM17GJ	13:01	32.65
3/06/2019	BY68YC	13:30	32.35
3/06/2019	BM70UW	13:36	32
3/06/2019	CK66NE	13:41	33
3/06/2019	CC90FS	13:49	32.2
3/06/2019	CM17GJ	14:01	32.55
3/06/2019	BY68YC	14:29	32.4
3/06/2019	BM70UW	14:33	32
3/06/2019	CK66NE	14:39	32.95
3/06/2019	CM17GJ	14:52	32.55
3/06/2019	CM17GJ	9:14	12.6
3/06/2019	CM17GJ	10:25	12.65
3/06/2019	CC90FS	7:51	31.95
3/06/2019	CM17GJ	11:29	12.7
4/06/2019	CC90FS	7:09	32.25
4/06/2019	CC90FS	8:12	32.15
4/06/2019	CC90FS	9:06	32.15
4/06/2019	CC90FS	10:03	32.2
4/06/2019	CC90FS	11:07	32.25
4/06/2019	CC90FS	12:04	32.25
4/06/2019	CC90FS	13:05	32.25
4/06/2019	CM17GJ	14:46	32.55
4/06/2019	CN70EQ	15:05	32.7
5/06/2019	CC90FS	7:09	32.2

Date	Rego	Time	Weight (t)
5/06/2019	CC90FS	8:11	32.2
5/06/2019	CC90FS	9:12	32.2
5/06/2019	CC90FS	10:09	32.1
5/06/2019	CC90FS	11:07	32.1
5/06/2019	CC90FS	12:10	32.1
5/06/2019	CC90FS	13:08	32.25
6/06/2019	BM70UW	9:53	32.05
6/06/2019	BM70UW	10:52	32.05
6/06/2019	BM70UW	11:57	32.05
6/06/2019	BM70UW	12:52	32.1
6/06/2019	BM70UW	13:49	32.1
6/06/2019	BM70UW	14:44	32.1
7/06/2019	BR48BX	7:07	32.5
7/06/2019	BR48BX	8:07	32.5
7/06/2019	AV05KK	8:30	32.8
7/06/2019	BR48BX	9:07	32.45
7/06/2019	AV05KK	9:24	32.75
7/06/2019	BR48BX	10:01	32.45
7/06/2019	AV05KK	10:16	32.8
7/06/2019	BR48BX	10:59	32.45
7/06/2019	AV05KK	11:10	32.8
7/06/2019	BR48BX	11:50	32.5
7/06/2019	AV05KK	12:03	32.8
7/06/2019	BR48BX	12:48	32.45
7/06/2019	AV05KK	12:54	32.6
7/06/2019	BR48BX	13:42	32.4
7/06/2019	AV05KK	13:48	32.8
7/06/2019	BR48BX	14:41	32.45
7/06/2019	AV05KK	14:47	32.8
7/06/2019	XN93CP	12:23	12.05
11/06/2019	XN93CP	7:21	12.15
11/06/2019	XN93CP	8:15	12
11/06/2019	XN93CP	9:20	12.35
11/06/2019	XN93CP	10:23	12.25
11/06/2019	XN93CP	11:55	12.25
11/06/2019	CN70EQ	11:33	32.65
12/06/2019	CM36DI	8:00	4.05
12/06/2019	CM36DI	8:34	3.45
12/06/2019	CP60LI	14:14	12
12/06/2019	AK62VN	14:35	12.35
12/06/2019	CP60LI	15:07	12.15
12/06/2019	AK62VN	15:36	12.7
17/06/2019	CK90FH	8:04	39.45
17/06/2019	CI27YA	8:06	2
17/06/2019	CI27YA	14:25	2
18/06/2019	148RSY	8:58	11.2
19/06/2019	CK90FH	7:49	39.25
19/06/2019	ZKY293	7:54	14
19/06/2019	XN93CP	8:07	10.1
19/06/2019	TSP279	9:32	12.1
20/06/2019	XN93CP	14:58	14.7
26/06/2019	AM60MH	8:48	12.9
26/06/2019	AN66TC	15:11	0.5
2/07/2019	LB80LV	11:24	11.65
3/07/2019	CK90FH	13:27	39.6
4/07/2019	YBL163	07:35	1

Date	Rego	Time	Weight (t)
4/07/2019	BK16RT	13:56	12.7
4/07/2019	BK16RT	09:46	12.7
4/07/2019	Y17471	09:56	19.85
5/07/2019	CP60LI	10:03	12.25
10/07/2019	CF72RB	10:08	12.85
12/07/2019	CD68UB	11:10	13.45
12/07/2019	AD23FS	07:34	4.7
12/07/2019	AD23FS	07:30	8.1
16/07/2019	CL40HT	13:23	12.5
16/07/2019	CL40HT	13:42	20.55
19/07/2019	CP68UB	08:23	13.55
22/07/2019	CP68UB	08:25	13.45
22/07/2019	BG48JO	13:41	11.55
26/07/2019	CF72RB	07:26	12
5/08/2019	CP60LI	07:23	12
12/08/2019	CC97ME	10:07	12.3
12/08/2019	CC97ME	10:49	12.8
12/08/2019	CC97ME	11:03	12.5
12/08/2019	CP68UB	13:10	13.55
13/08/2019	CP68UB	08:23	13.4
13/08/2019	CP68UB	11:37	13.25
13/08/2019	CP68UB	13:02	13.55
13/08/2019	CP68UB	14:38	13.55
14/08/2019	BY80LZ	08:51	32.1
14/08/2019	BY80LZ	10:08	32.2
14/08/2019	BY80LZ	11:13	32.15
14/08/2019	BY80LZ	12:22	32.25
14/08/2019	BY80LZ	13:23	32.15
14/08/2019	BY80LZ	14:36	20.1
14/08/2019	BY80LZ	14:30	12
16/08/2019	BY80LZ	09:20	32.2
19/08/2019	CM17GJ	08:24	12
21/08/2019	XN84EH	09:46	14.45
23/08/2019	CM17GJ	13:52	12
23/08/2019	CM17GJ	14:21	11.95
23/08/2019	CM17GJ	14:41	12
23/08/2019	CM17GJ	15:00	11.95
23/08/2019	CM17GJ	15:23	12.9
23/08/2019	CF03KQ	13:25	13.5
12/09/2019	BA44CU	09:14	1.50
13/09/2019	BT70JI	07:40	2.50
13/09/2019	CM17GJ	12:26	12.70
13/09/2019	CM17GJ	12:28	12.95
13/09/2019	CM17GJ	12:51	12.80
13/09/2019	CM17GJ	13:18	12.60
13/09/2019	CM17GJ	13:40	12.90
13/09/2019	CM17GJ	14:01	12.85
13/09/2019	CM17GJ	14:22	12.55
13/09/2019	CM17GJ	14:40	12.50
13/09/2019	CM17GJ	15:06	12.95
13/09/2019	CM17GJ	15:27	12.80
13/09/2019	CM17GJ	15:52	12.65
13/09/2019	CM17GJ	16:14	12.95
13/09/2019	CM17GJ	16:35	12.95
13/09/2019	CM17GJ	16:55	12.85
18/09/2019	BB97MI	08:58	8.40

Date	Rego	Time	Weight (t)
18/09/2019	BB97MI	09:47	7.90
18/09/2019	BB97MI	10:05	8.40
18/09/2019	BB97MI	10:35	8.45
18/09/2019	BB97MI	10:41	9.40
20/09/2019	XN45LP	07:13	13.85
20/09/2019	XN45LP	07:44	14.00
1/10/2019	AK64VN	09:08	11.95
2/10/2019	CP02EM	09:33	10.05
3/10/2019	YWW895	14:26	12.85
4/10/2019	CP60LI	07:13	2.95
4/10/2019	DDS16E	09:11	2
14/10/2019	BY68YC	14:57	12.6
5/11/2019	AD23FS	07:17	12.45
5/11/2019	CM17GJ	07:20	12.9
5/11/2019	AD23FS	08:09	12.9
5/11/2019	CM17GJ	08:16	13.05
5/11/2019	AD23FS	08:52	12.7
5/11/2019	CM17GJ	08:57	12.95
5/11/2019	AD23FS	09:38	12.95
5/11/2019	CM17GJ	09:41	12.6
5/11/2019	AD23FS	10:22	12.8
5/11/2019	CM17GJ	10:25	13.05
5/11/2019	AD23FS	11:10	12.85
5/11/2019	CM17GJ	11:13	12.8
5/11/2019	AD23FS	12:10	13
5/11/2019	CM17GJ	12:11	12.6
5/11/2019	AD23FS	13:11	12.95
5/11/2019	CM17GJ	13:14	12.9
5/11/2019	AD23FS	13:59	12.95
5/11/2019	CM17GJ	14:02	12.9
5/11/2019	AD23FS	14:48	12.9
5/11/2019	CM17GJ	14:50	13.05
5/11/2019	CL63UW	13:30	6
6/11/2019	AD23FS	07:11	13.05
6/11/2019	CM17GJ	07:16	12.75
6/11/2019	AD23FS	08:06	13.1
6/11/2019	CM17GJ	08:14	13
6/11/2019	AD23FS	08:52	13
6/11/2019	CM17GJ	08:56	12.7
6/11/2019	AD23FS	09:44	12.8
6/11/2019	CM17GJ	09:50	13.05
6/11/2019	AD23FS	10:39	13.05
6/11/2019	CM17GJ	10:40	12.8
6/11/2019	AD23FS	11:20	12.95
6/11/2019	CM17GJ	11:28	13
6/11/2019	AD23FS	12:11	13.05
6/11/2019	CM17GJ	12:21	12.9
6/11/2019	AD23FS	12:56	12.95
6/11/2019	CM17GJ	12:59	13
12/11/2019	XP51TZ	13:06	1.2
12/11/2019	BY15LS	08:25	10
14/11/2019	AK62VN	08:24	12
18/11/2019	XQ58FX	09:07	12
18/11/2019	XQ58FX	15:35	12
20/11/2019	XQ58FX	08:36	12
20/11/2019	XQ58FX	10:20	12
20/11/2019	XQ58FX	12.22	12
2/12/2019	CP60LI	08:49	12.75
2/12/2019	CP60LI	09:26	12.90
2/12/2019	CP60LI	09:58	12.75
2/12/2019	CP60LI	10:23	13.00
2/12/2019	CP60LI	10:48	12.95
2/12/2019	CP60LI	11:13	13.00
2/12/2019	CP60LI	11:37	12.95
2/12/2019	CP60LI	12:01	12.90
2/12/2019	CP60LI	12:24	13.00
2/12/2019	CP60LI	12:48	13.00
9/12/2019	CM17GJ	08:01	12.80
9/12/2019	CM17GJ	08:35	12.55
9/12/2019	CM17GJ	09:00	12.70
9/12/2019	CM17GJ	09:24	12.70
9/12/2019	CM17GJ	09:48	12.65
9/12/2019	CM17GJ	10:17	12.80
9/12/2019	CM17GJ	10:37	12.65
9/12/2019	CM17GJ	11:06	12.75
9/12/2019	CM17GJ	11:29	12.55
9/12/2019	CM17GJ	11:52	12.75
9/12/2019	CM17GJ	12:13	12.80
9/12/2019	CM17GJ	12:36	12.65
9/12/2019	CM17GJ	12:57	12.65
11/12/2019	CM17GJ	07:04	12.50

APPENDIX E

Table 1: Surface Water Monitoring Results 2019

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	19/03/2019	6.81	0.171	0.43	***1.52***	<0.001	<0.0001	***0.002***	0.001	<0.0005	0.002	None	16	<0.001	0.004
	16/07/2019	7.03	0.142	0.1	***0.992***	<0.001	<0.0001	<0.001	<0.001	<0.0005	0.001	None	8	<0.001	0.008
	10/09/2019	7.19	0.157	0.011	***1.22***	<0.001	***0.0011***	***0.001***	0.001	<0.0005	<0.001	None	9	<0.001	0.006
	11/12/2019	7.27	0.28	<0.005	***0.22***	<0.001	<0.0001	<0.001	0.001	<0.0005	0.001	None	38	<0.001	0.002
MP2	19/03/2019	6.79	0.168	0.065	***1.49***	<0.001	<0.0001	***0.002***	0.001	<0.0005	0.002	None	18	<0.001	0.007
	16/07/2019	6.69	0.156	0.065	***0.907***	<0.001	<0.0001	<0.001	0.001	<0.0005	0.001	None	8	<0.001	***0.009***
	10/09/2019	7.23	0.159	<0.005	***1.25***	<0.001	***0.0012***	***0.001***	<0.001	<0.0005	<0.001	None	8	<0.001	0.003
	11/12/2019	7.26	0.282	<0.005	***0.215***	<0.001	<0.0001	<0.001	<0.001	<0.0005	0.001	None	29	<0.001	0.002
MP3	19/03/2019	No Access													
	16/07/2019	No Access													
	10/09/2019	No Access													
	11/12/2019	No Access													
MP4	19/03/2019	Insufficient Water Levels													
	16/07/2019	Insufficient Water Levels													
	10/09/2019	Insufficient Water Levels													
	11/12/2019	Insufficient Water Levels													
MP5	19/03/2019	***4.73***	0.178	<0.005	***0.294***	<0.001	0.0001	<0.001	***0.011***	<0.0005	0.005	None	14	***0.004***	***0.035***
	16/07/2019	***5.22***	0.165	<0.005	***0.22***	<0.001	0.0001	<0.001	***0.005***	<0.0005	0.006	None	4	<0.001	***0.035***
	10/09/2019	7.16	0.189	<0.005	***0.159***	<0.001	0.0002	<0.001	***0.002***	<0.0005	0.004	None	2	<0.001	***0.017***
	11/12/2019	7.72	0.213	<0.005	***0.091***	<0.001	<0.0001	<0.001	<0.001	<0.0005	<0.001	None	6	<0.001	<0.001

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 2019

Date	pH	Comments
4/01/2019	6.76	
11/01/2019	6.7	
18/01/2019	6.8	
25/01/2019	6.84	
1/02/2019	6.5	
8/02/2019	5.9	
15/02/2019	6.6	
22/02/2019	6.8	Sediment ponds cleaned out.
1/03/2019	6.6	
8/03/2019	4.78	
15/03/2019	4.54	
22/03/2019	4.62	Sediment ponds cleaned out.
29/03/2019	4.71	
5/04/2019	4.53	
12/04/2019	4.46	
18/04/2019	4.39	Sediment ponds cleaned out.
26/04/2019	4.22	
3/05/2019	4.25	
10/05/2019	4.23	Sediment ponds cleaned out.
17/05/2019	5.27	Quarrying operations suspended.
24/05/2019	5.56	
31/05/2019	4.98	
7/06/2019	4.63	
14/06/2019	4.52	
21/06/2019	4.45	
28/06/2019	4.54	
5/07/2019	5.02	
12/07/2019	5.27	
19/07/2019	5.3	
26/07/2019	5.57	
2/08/2019	6.67	
9/08/2019	6.94	
16/08/2019	7.99	
23/08/2019	7.43	
30/08/2019	6.86	
2/09/2019	6.54	
13/09/2019	7.24	
20/09/2019	7.17	
27/09/2019	6.97	
4/10/2019	6.94	
11/10/2019	6.96	
18/10/2019	6.98	
25/10/2019	6.96	
1/11/2019	6.95	
8/11/2019	6.96	
15/11/2019	6.98	
22/11/2019	7.02	
29/11/2019	7.06	
6/12/2019	7.05	
13/12/2019	7.11	
20/12/2019	7.18	
27/12/2019	7.15	

Table 3: Groundwater Monitoring Results 2019

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	19/03/2019	No Access											
	16/07/2019	No Access											
	10/09/2019	No Access											
	11/12/2019	No Access											
MP9	19/03/2019	***5.28***	0.279	0.067	0.056	<0.001	<0.0001	<0.001	0.001	<0.0005	0.001	<0.001	0.031
	16/07/2019	***5.28***	0.263	0.119	0.052	<0.001	<0.0001	<0.001	<0.001	<0.0005	<0.001	<0.001	0.025
	10/09/2019	Dry Well											
	11/12/2019	***5.45***	0.292	<0.005	0.042	<0.001	<0.0001	<0.001	0.001	<0.0005	0.001	<0.001	0.031
MP10	19/03/2019	***4.36***	0.125	0.038	***0.244***	<0.001	<0.0001	0.001	0.003	<0.0005	0.002	<0.001	0.016
	16/07/2019	***4.45***	0.112	0.065	0.198	<0.001	<0.0001	<0.001	0.003	<0.0005	0.002	0.001	0.026
	10/09/2019	***4.38***	0.124	0.076	***0.204***	<0.001	0.0004	<0.001	0.007	<0.0005	0.002	0.001	0.029
	11/12/2019	***4.43***	0.127	0.032	0.19	<0.001	<0.0001	<0.001	0.043	<0.0005	0.002	0.001	0.031
MP12	19/03/2019	***5.42***	0.438	0.006	0.018	<0.001	<0.0001	<0.001	0.003	<0.0005	0.002	<0.001	0.027
	16/07/2019	***5.52***	0.408	0.007	0.022	<0.001	<0.0001	<0.001	0.002	<0.0005	0.002	<0.001	0.027
	10/09/2019	***5.34***	0.439	<0.005	0.006	<0.001	0.0001	<0.001	0.004	<0.0005	0.002	<0.001	0.041
	11/12/2019	***6.05***	0.362	0.018	0.028	<0.001	<0.0001	<0.001	0.043	<0.0005	0.002	<0.001	0.036

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.

APPENDIX F

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 2020.

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 2020.

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 2020.

BUND E

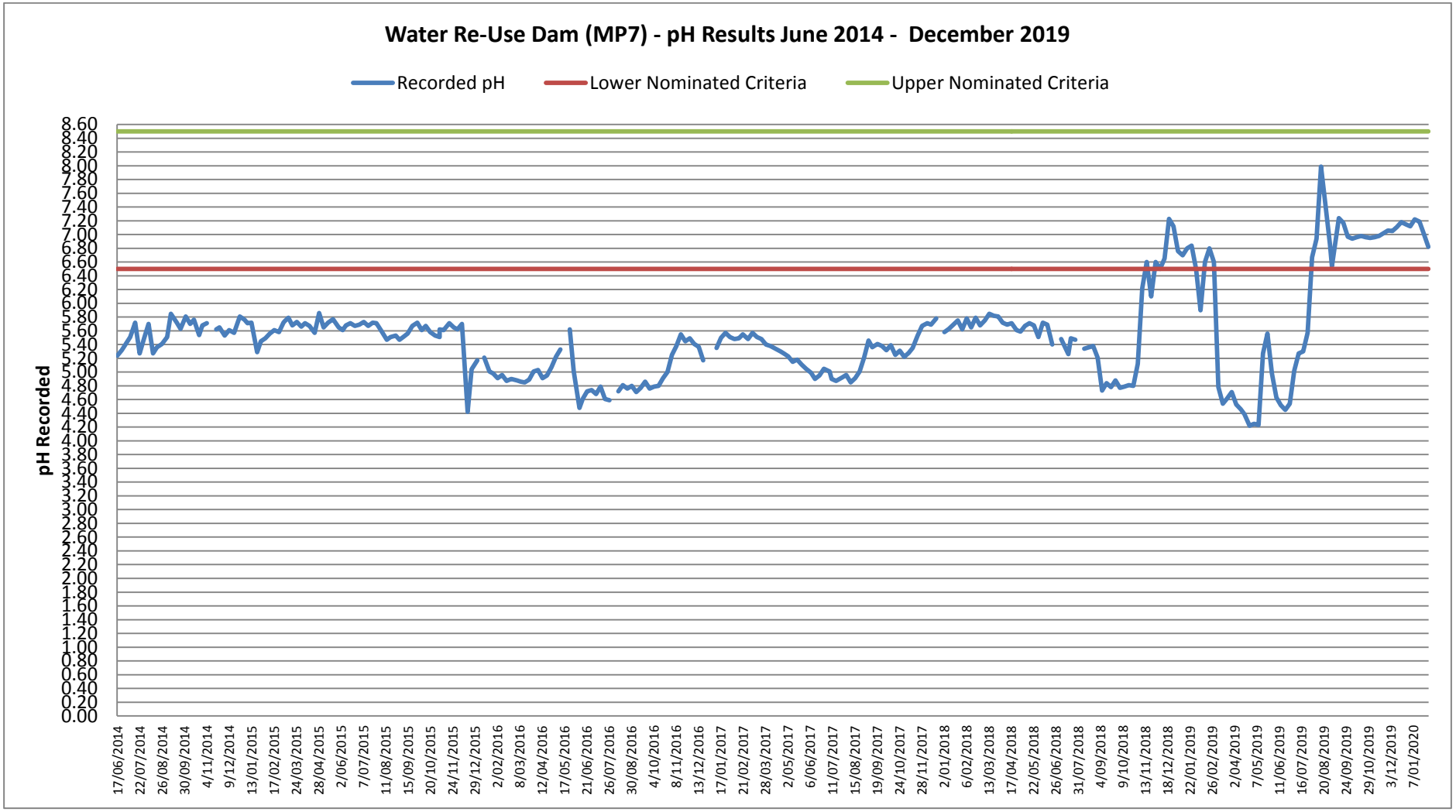
Low sacrificial bund 10 metres wide. Established and grassed. Photo March 2020.

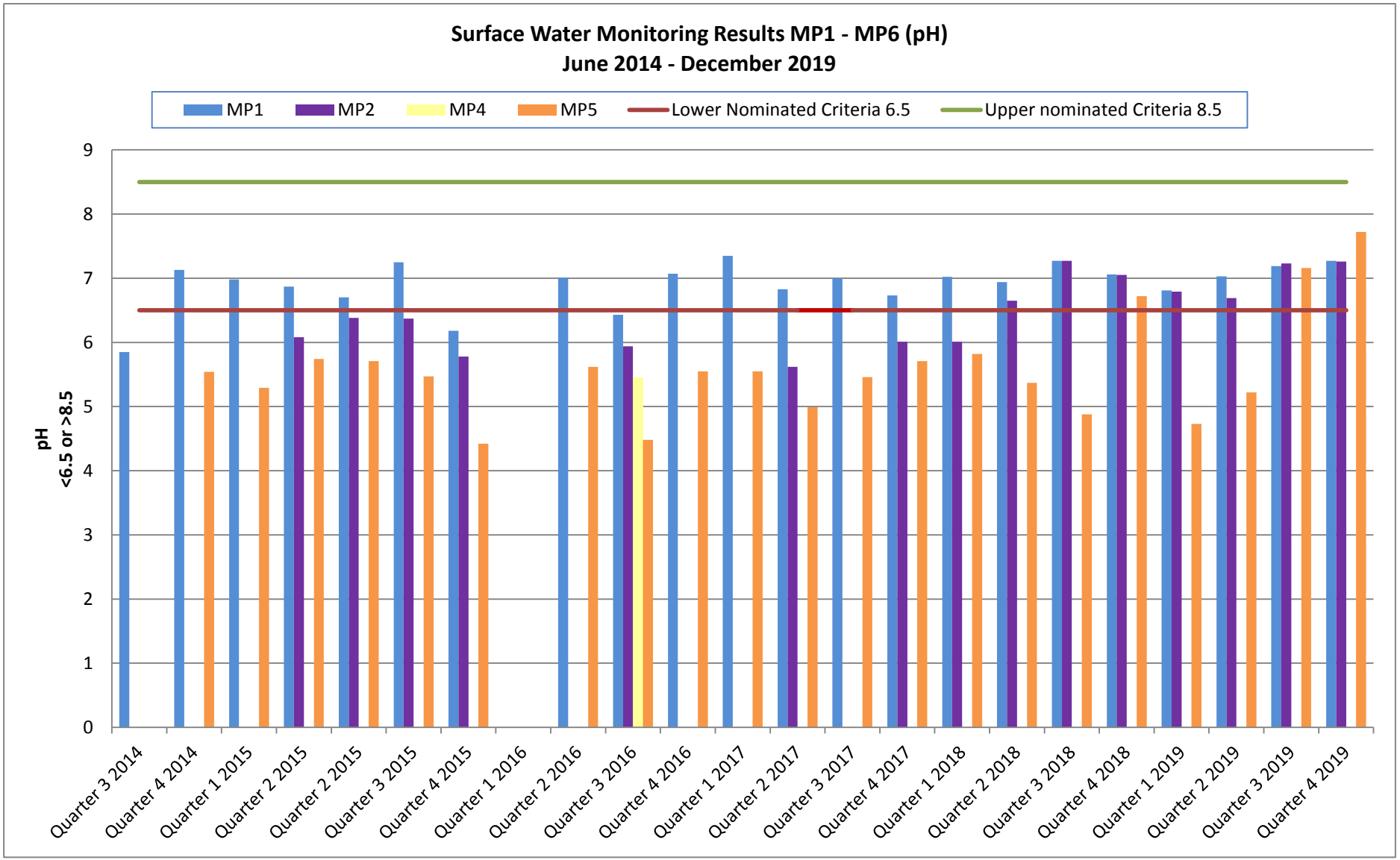
AREA TO THE NORTH OF THE MAIN ACCESS ROAD

Established, grassed and planted with 2 rows of non-koala habitat trees/shrubs. Photo March 2020.

APPENDIX G

Monitoring Result Graphs




Surface Water Monitoring Results MP1 - MP6 (pH)
June 2014 - December 2019
MP1
MP2
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
Quarter 1 2016
Quarter 2 2016
Quarter 3 2016
Quarter 4 2016
Quarter 1 2017
Quarter 2 2017
Quarter 3 2017
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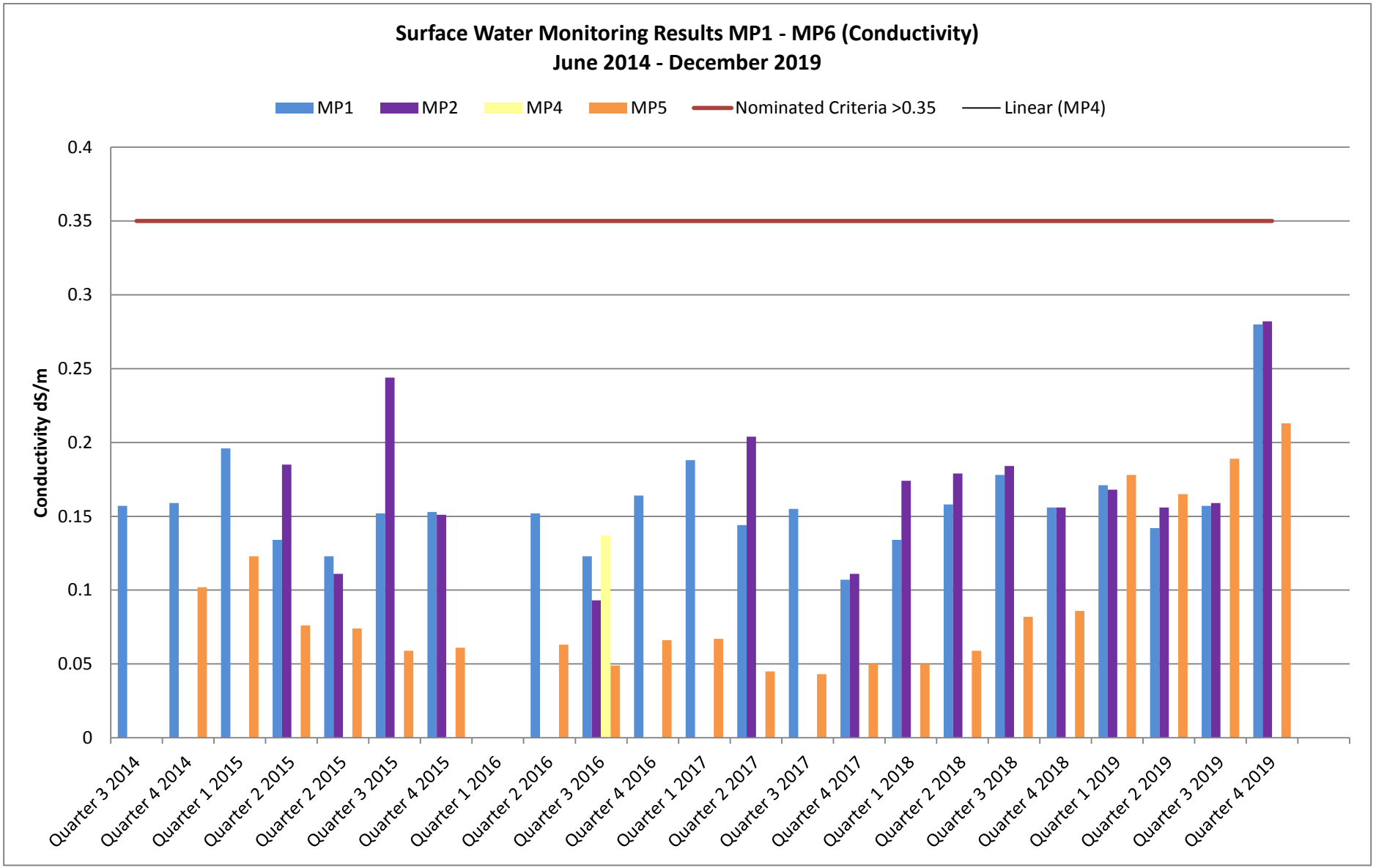
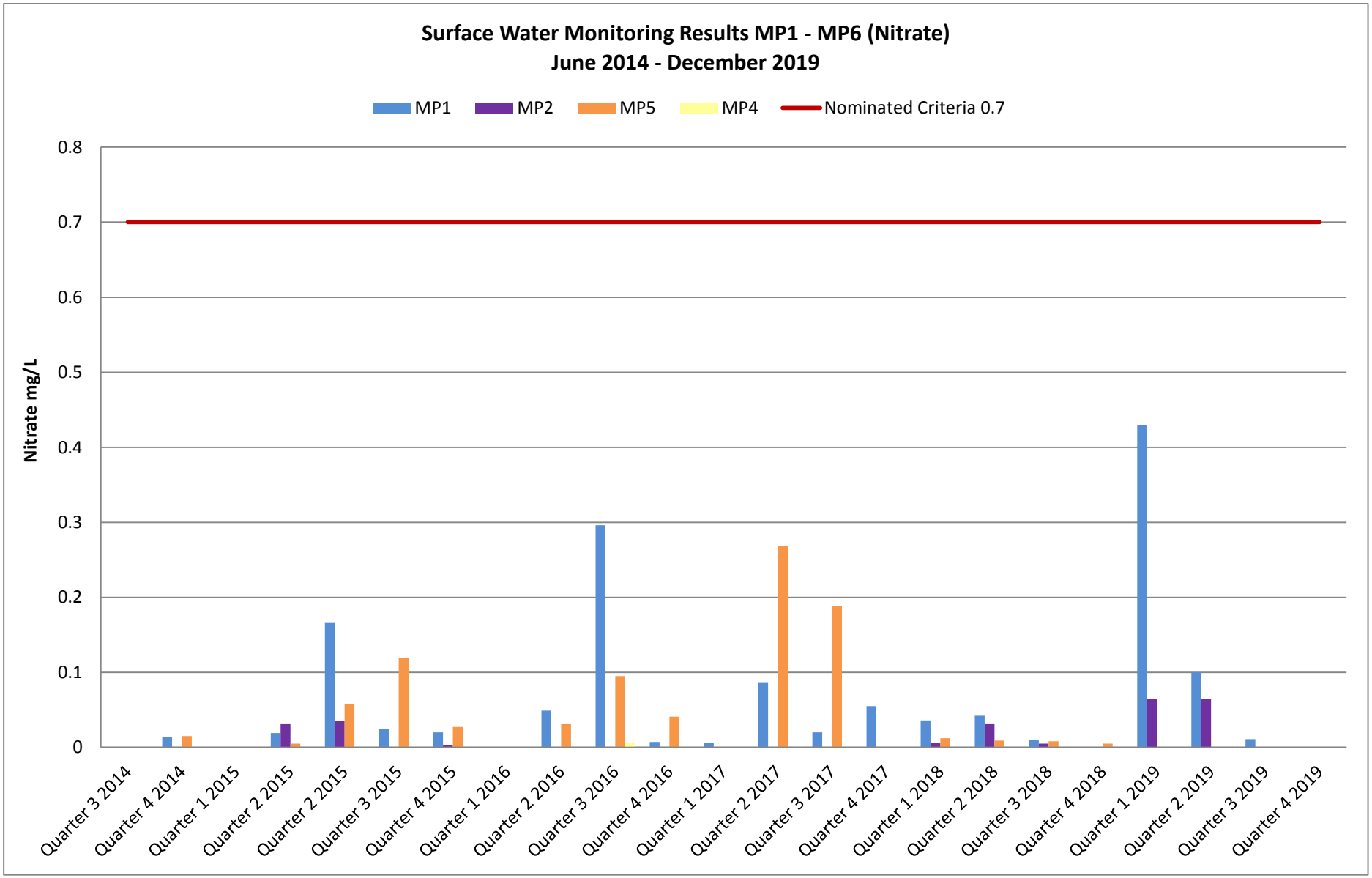
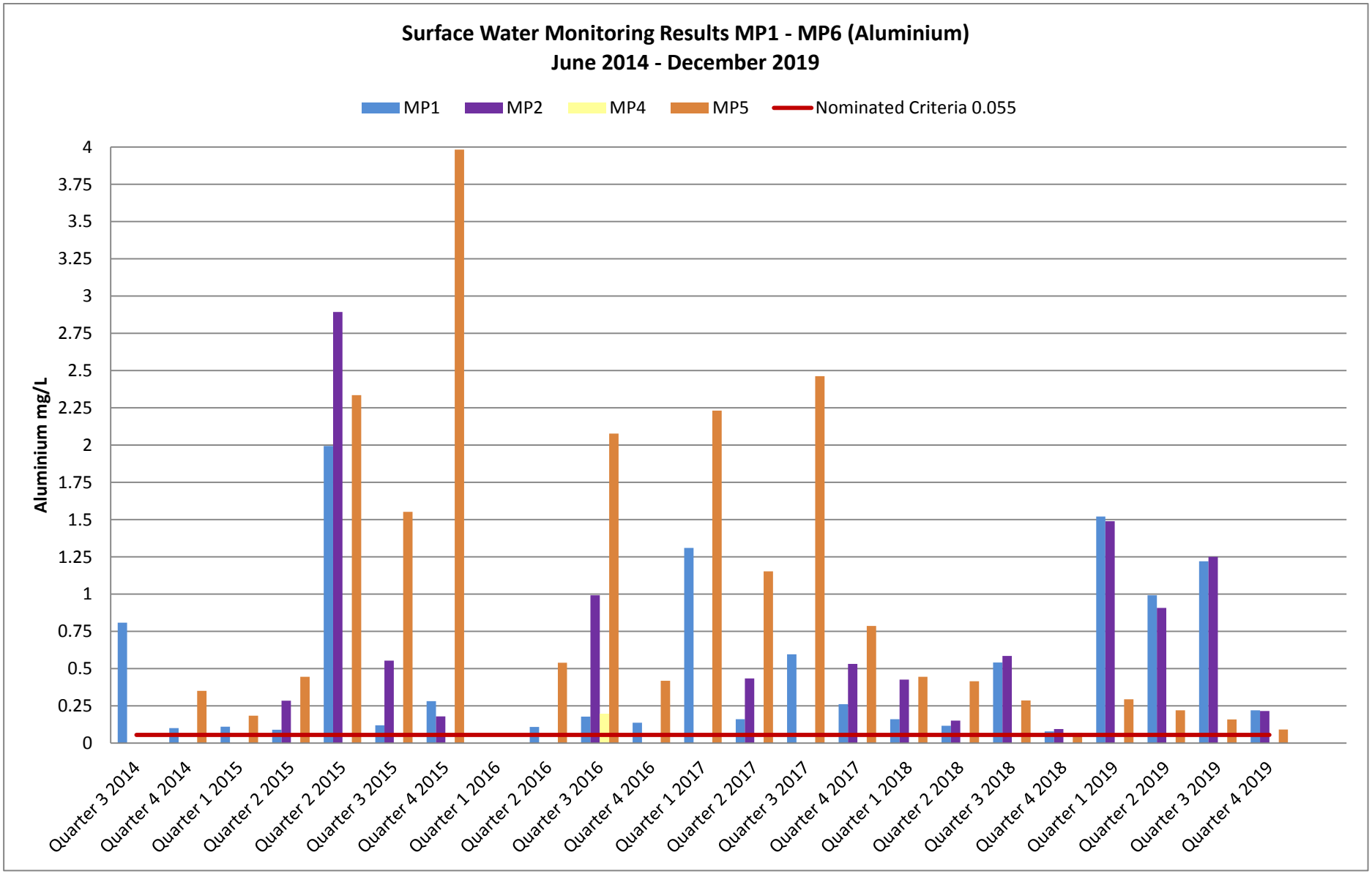
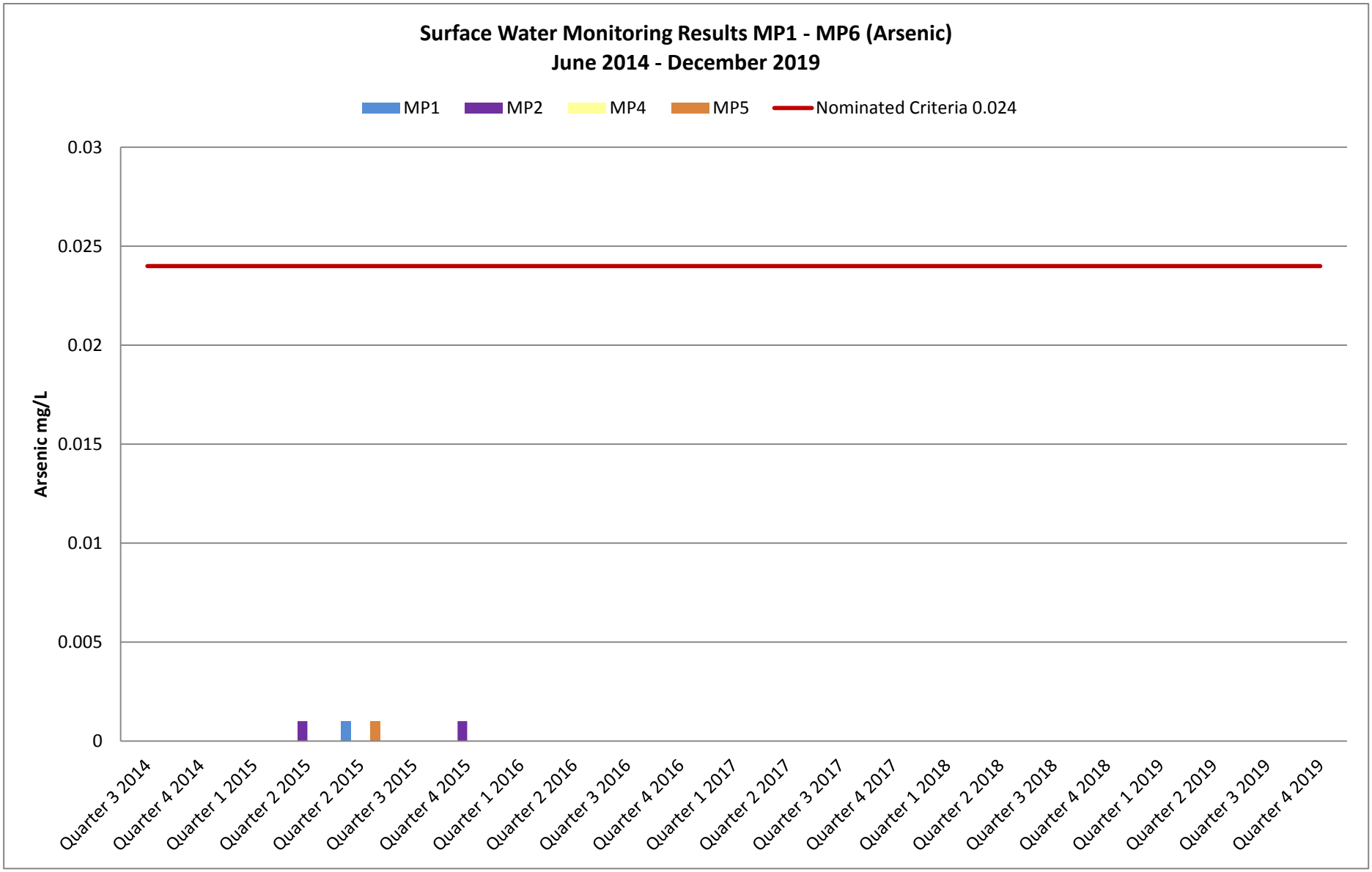
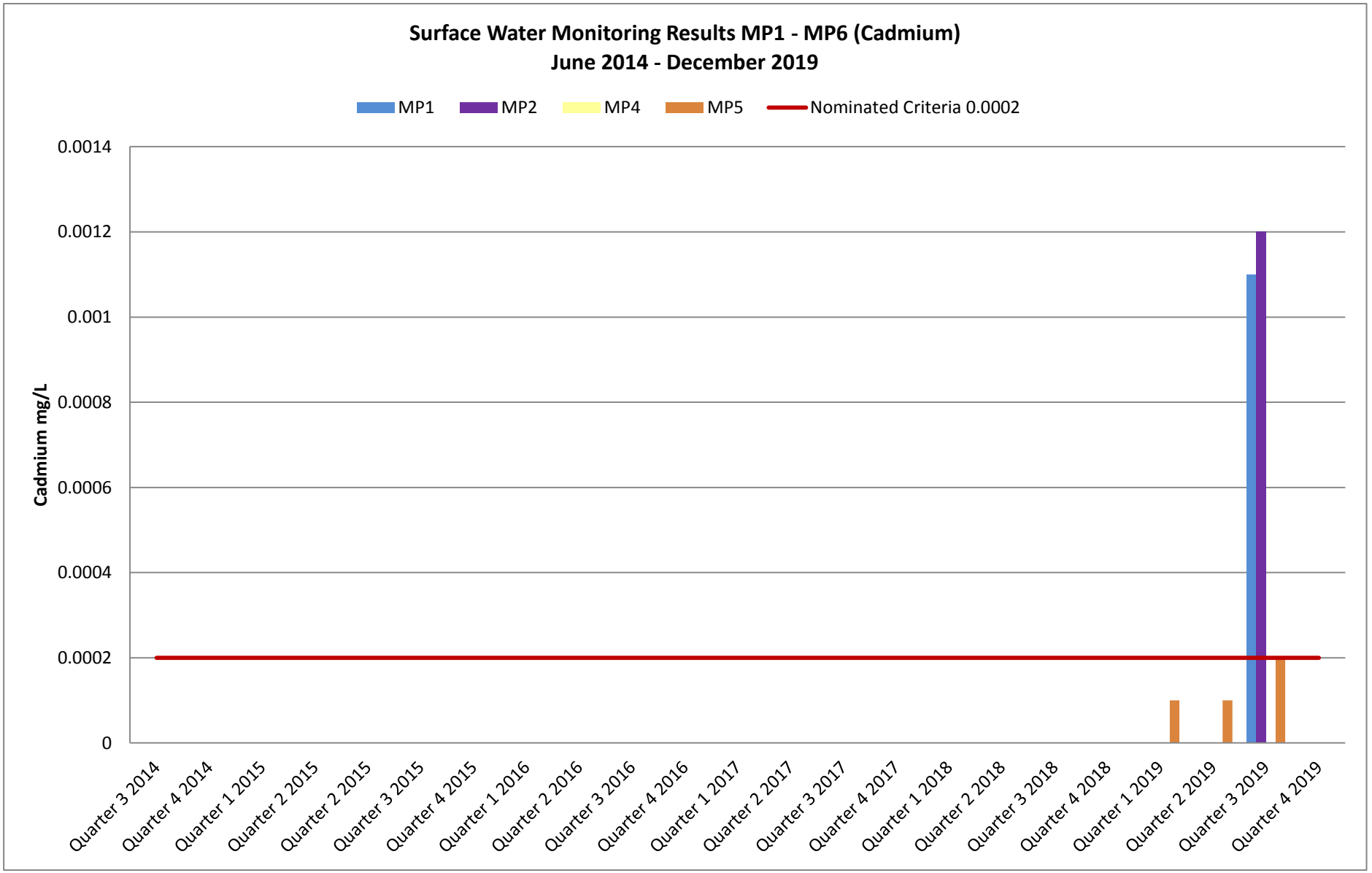
Quarter 1 2018
Quarter 2 2018
Quarter 3 2018
Quarter 4 2018
Quarter 1 2019
Quarter 2 2019
Quarter 3 2019
Quarter 4 2019

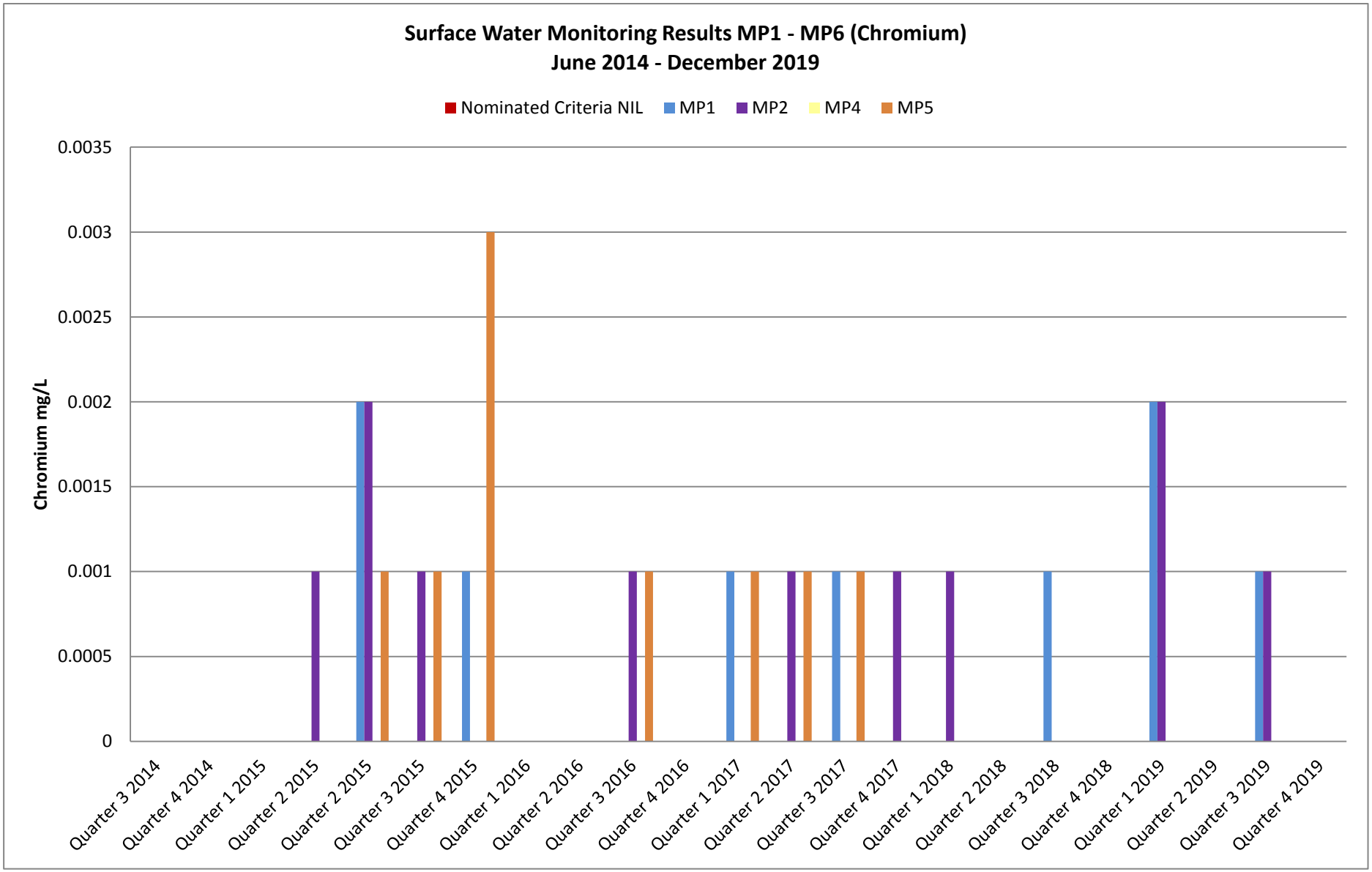

Surface Water Monitoring Results MP1 - MP6 (Conductivity)
June 2014 - December 2019
MP1
MP2
MP4
MP5
Nominated Criteria >0.35
Linear (MP4)
Conductivity dS/m
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
Quarter 3 2014
Quarter 4 2014
Quarter 1 2015
Quarter 2 2015
Quarter 2 2015
Quarter 3 2015
Quarter 4 2015
Quarter 1 2016
Quarter 2 2016
Quarter 3 2016
Quarter 4 2016
Quarter 1 2017
Quarter 2 2017
Quarter 3 2017
Quarter 4 2017
Quarter 1 2018
Quarter 2 2018
Quarter 3 2018
Quarter 4 2018
Quarter 1 2019
Quarter 2 2019
Quarter 3 2019
Quarter 4 2019

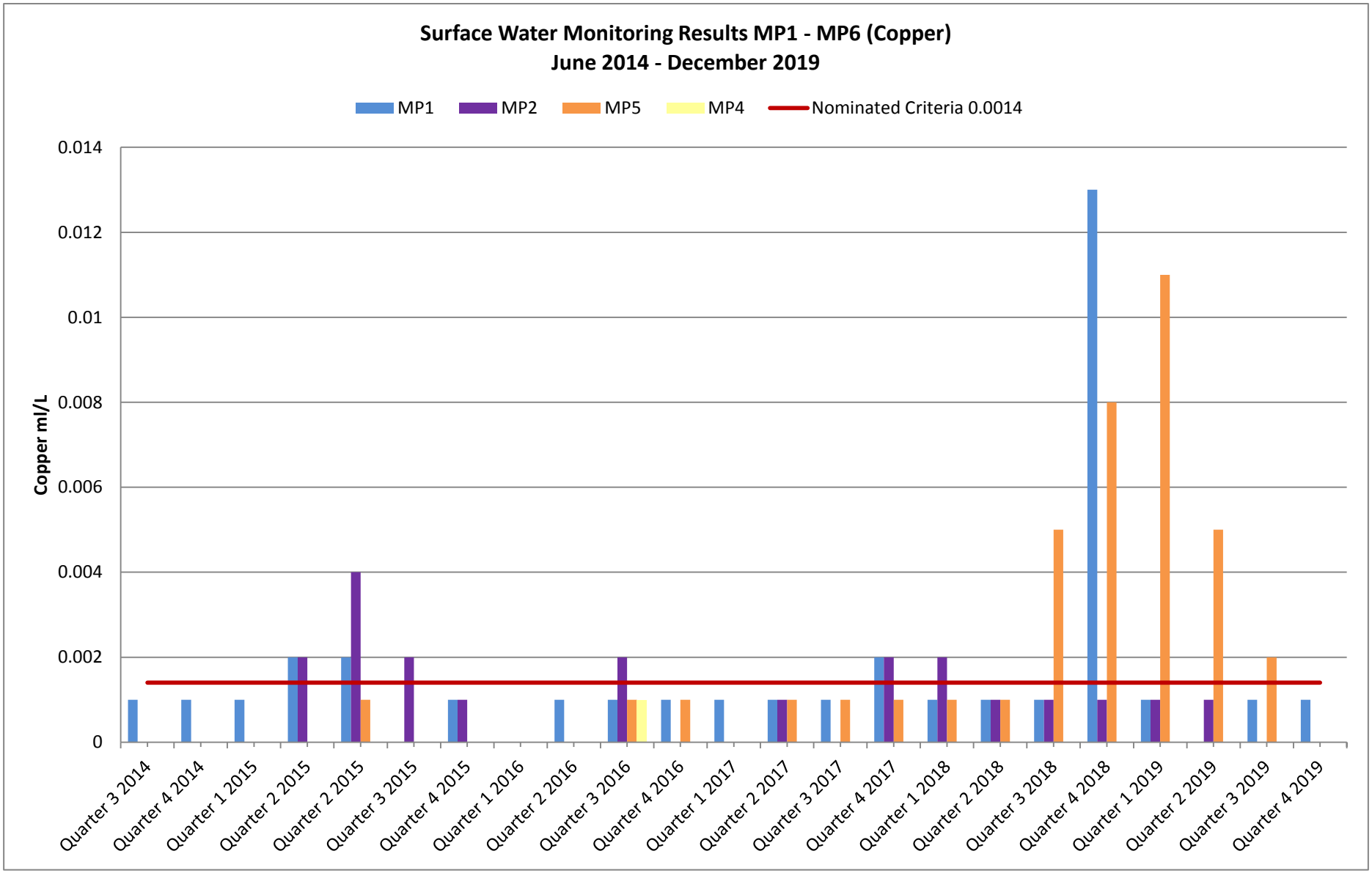

Surface Water Monitoring Results MP1 - MP6 (Nitrate)
June 2014 - December 2019
MP1
MP2
MP5
MP4
Nominated Criteria 0.7
Nitrate mg/L
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
Quarter 3 2014
Quarter 4 2014
Quarter 1 2015
Quarter 2 2015
Quarter 2 2015
Quarter 3 2015
Quarter 4 2015
Quarter 1 2016
Quarter 2 2016
Quarter 3 2016
Quarter 4 2016
Quarter 1 2017
Quarter 2 2017
Quarter 3 2017
Quarter 4 2017
Quarter 1 2018
Quarter 2 2018
Quarter 3 2018
Quarter 4 2018
Quarter 1 2019
Quarter 2 2019
Quarter 3 2019
Quarter 4 2019


Surface Water Monitoring Results MP1 - MP6 (Aluminium)
June 2014 - December 2019
MP1
MP2
MP4
MP5
Nominated Criteria 0.055
Aluminium mg/L
4
3.75
3.5
3.25
3
2.75
2.5
2.25
2
1.75
1.5
1.25
1
0.75
0.5
0.25
0
Quarter 3 2014
Quarter 4 2014
Quarter 1 2015
Quarter 2 2015
Quarter 2 2015
Quarter 3 2015
Quarter 4 2015
Quarter 1 2016
Quarter 2 2016
Quarter 3 2016
Quarter 4 2016
Quarter 1 2017
Quarter 2 2017
Quarter 3 2017
Quarter 4 2017
Quarter 1 2018
Quarter 2 2018
Quarter 3 2018
Quarter 4 2018
Quarter 1 2019
Quarter 2 2019
Quarter 3 2019
Quarter 4 2019


Surface Water Monitoring Results MP1 - MP6 (Arsenic)
June 2014 - December 2019
MP1
MP2
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 1 2016
Quarter 2 2016
Quarter 3 2016
Quarter 4 2016
Quarter 1 2017
Quarter 2 2017
Quarter 3 2017
Quarter 4 2017
Quarter 1 2018
Quarter 2 2018
Quarter 3 2018
Quarter 4 2018
Quarter 1 2019
Quarter 2 2019
Quarter 3 2019
Quarter 4 2019


Surface Water Monitoring Results MP1 - MP6 (Cadmium)
June 2014 - December 2019
MP1
MP2
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 1 2016
Quarter 2 2016
Quarter 3 2016
Quarter 4 2016
Quarter 1 2017
Quarter 2 2017
Quarter 3 2017
Quarter 4 2017
Quarter 1 2018
Quarter 2 2018
Quarter 3 2018
Quarter 4 2018
Quarter 1 2019
Quarter 2 2019
Quarter 3 2019
Quarter 4 2019


Surface Water Monitoring Results MP1 - MP6 (Chromium)
June 2014 - December 2019
Nominated Criteria NIL
MP1
MP2
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
Quarter 3 2015
Quarter 4 2015
Quarter 1 2016
Quarter 2 2016
Quarter 3 2016
Quarter 4 2016
Quarter 1 2017
Quarter 2 2017
Quarter 3 2017
Quarter 4 2017
Quarter 1 2018
Quarter 2 2018
Quarter 3 2018
Quarter 4 2018
Quarter 1 2019
Quarter 2 2019
Quarter 3 2019
Quarter 4 2019


Surface Water Monitoring Results MP1 - MP6 (Copper)
June 2014 - December 2019
MP1
MP2
MP5
MP4
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
Quarter 3 2015
Quarter 4 2015
Quarter 1 2016
Quarter 2 2016
Quarter 3 2016
Quarter 4 2016
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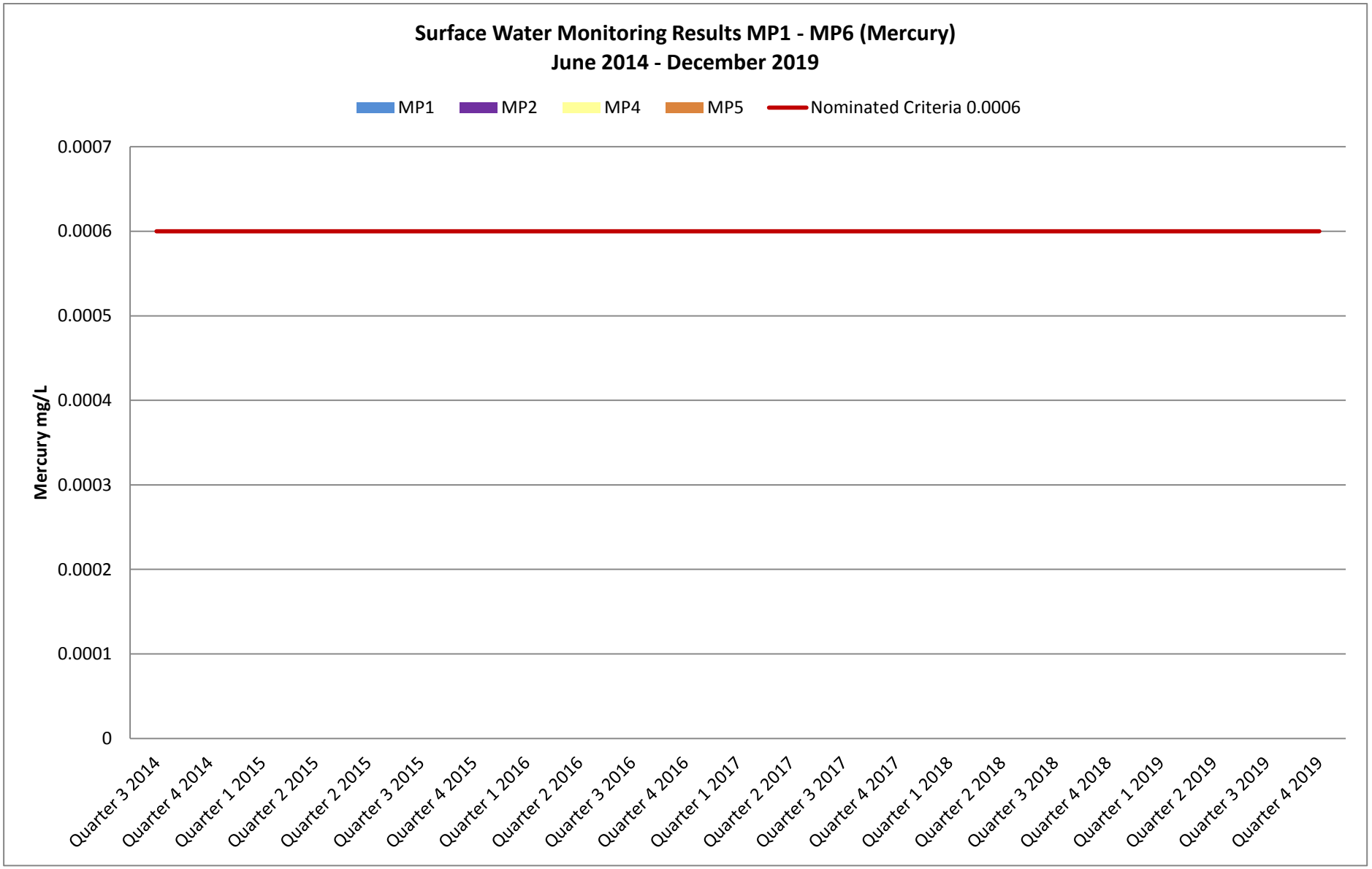
Quarter 4 2018
Quarter 1 2019
Quarter 2 2019
Quarter 3 2019
Quarter 4 2019


Surface Water Monitoring Results MP1 - MP6 (Mercury)
June 2014 - December 2019
MP1
MP2
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
Quarter 3 2015
Quarter 4 2015
Quarter 1 2016
Quarter 2 2016
Quarter 3 2016
Quarter 4 2016
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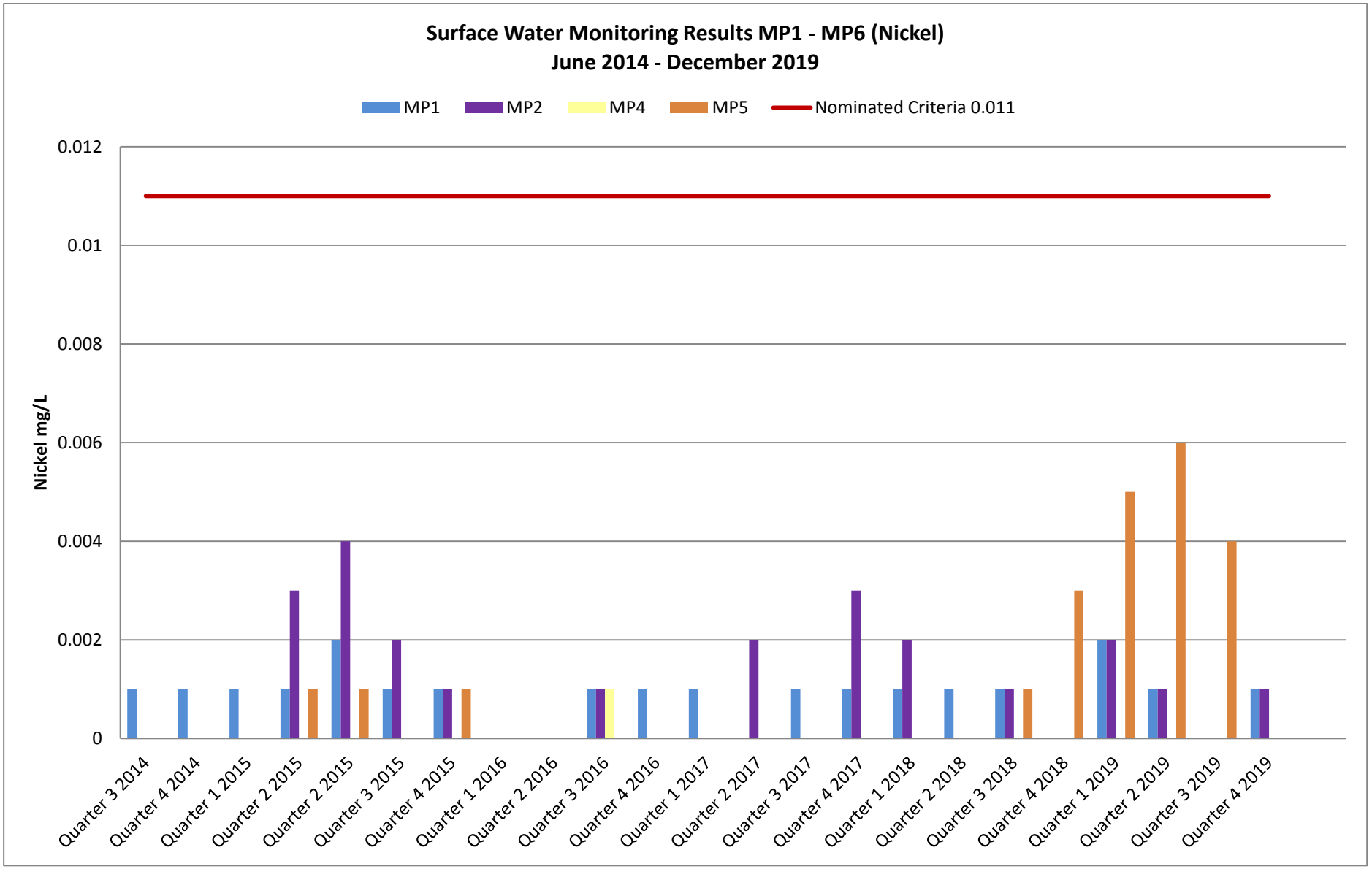
Quarter 1 2019
Quarter 2 2019
Quarter 3 2019
Quarter 4 2019


Surface Water Monitoring Results MP1 - MP6 (Nickel)
June 2014 - December 2019
MP1
MP2
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
Quarter 2 2015
Quarter 3 2015
Quarter 4 2015
Quarter 1 2016
Quarter 2 2016
Quarter 3 2016
Quarter 4 2016
Quarter 1 2017
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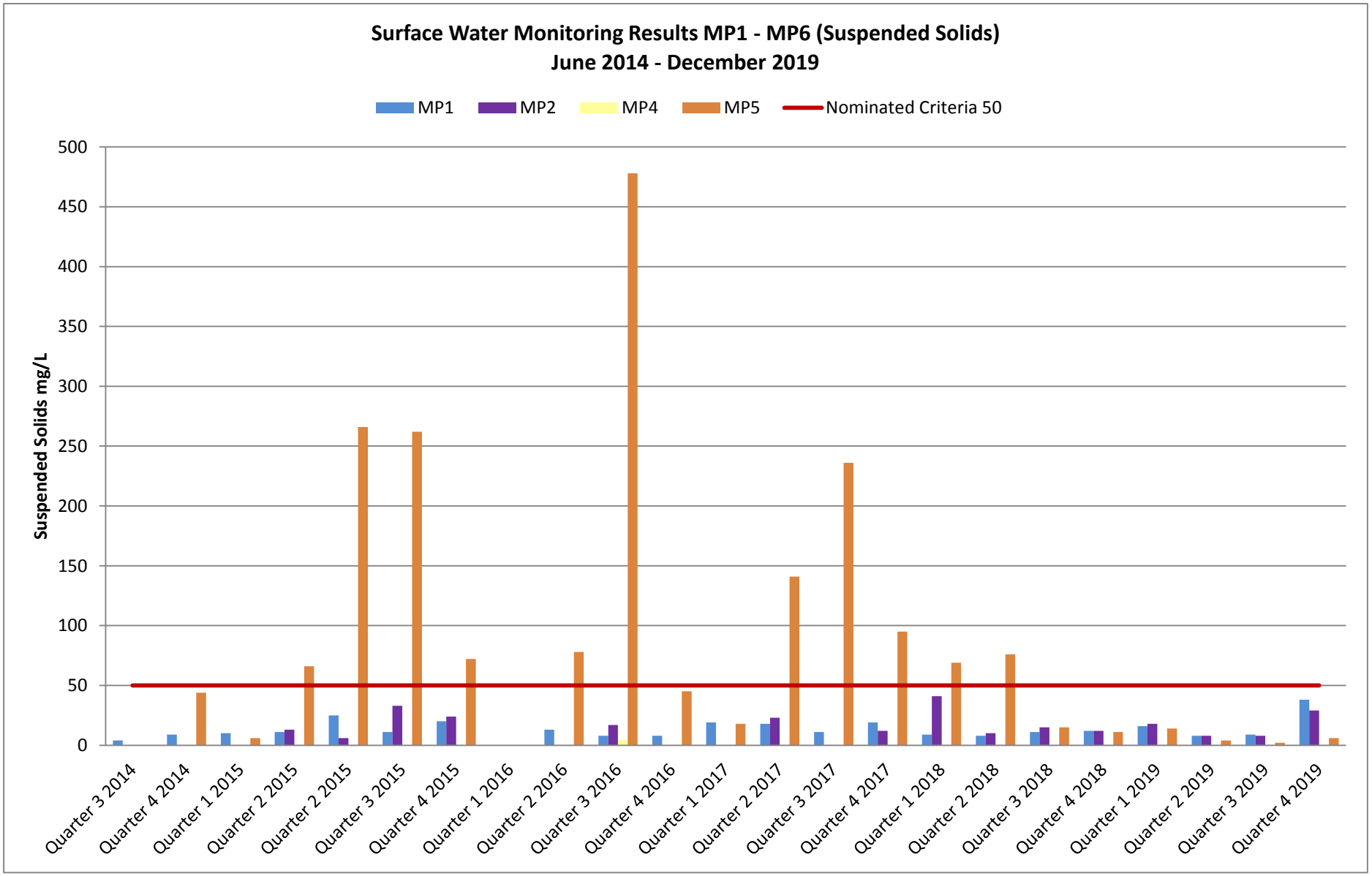
Quarter 1 2019
Quarter 2 2019
Quarter 3 2019
Quarter 4 2019


Surface Water Monitoring Results MP1 - MP6 (Suspended Solids)
June 2014 - December 2019
MP1
MP2
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 1 2016
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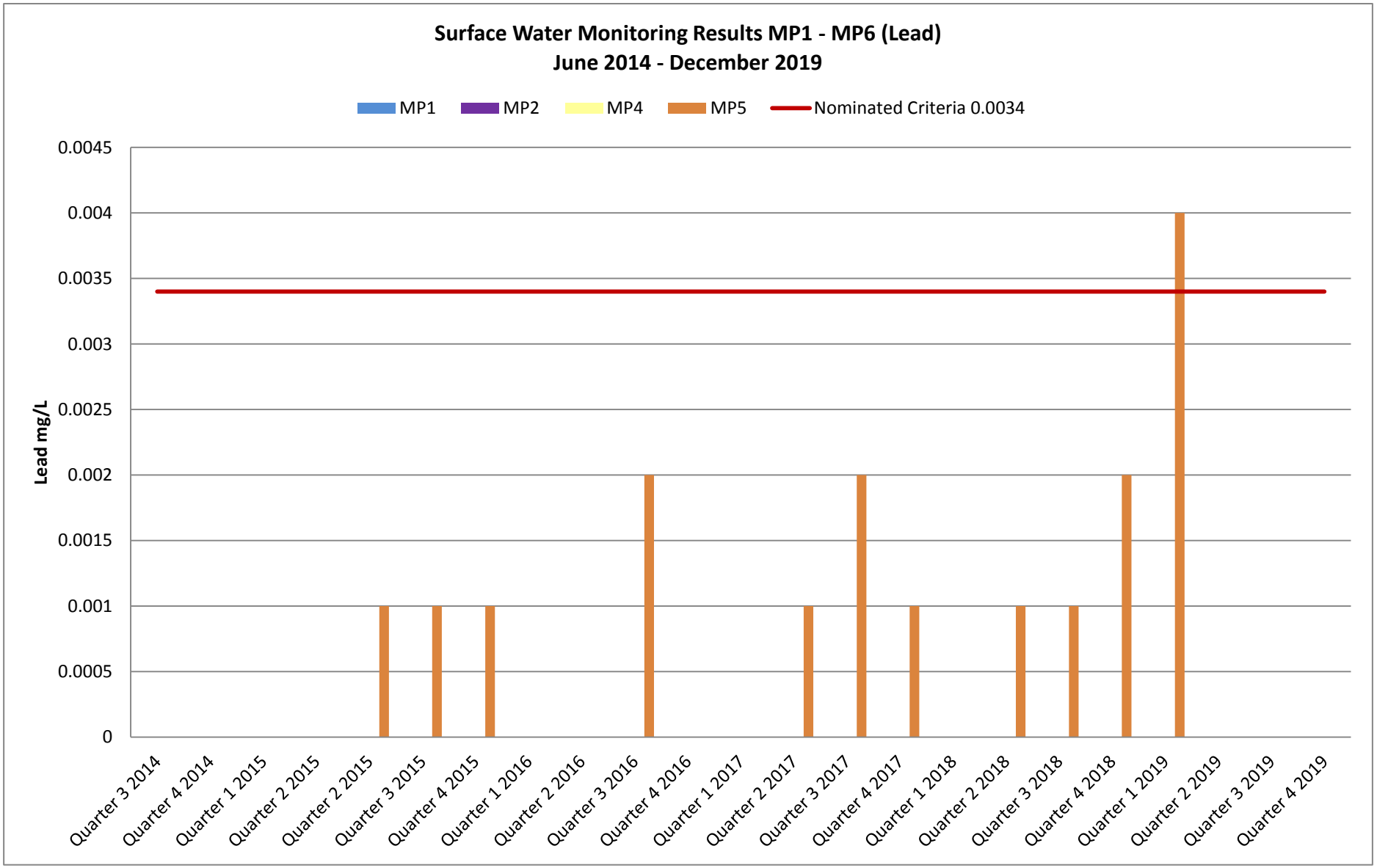
Quarter 1 2019
Quarter 2 2019
Quarter 3 2019
Quarter 4 2019


Surface Water Monitoring Results MP1 - MP6 (Lead)
June 2014 - December 2019
MP1
MP2
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
0
Quarter 3 2014
Quarter 4 2014
Quarter 1 2015
Quarter 2 2015
Quarter 2 2015
Quarter 3 2015
Quarter 4 2015
Quarter 1 2016
Quarter 2 2016
Quarter 3 2016
Quarter 4 2016
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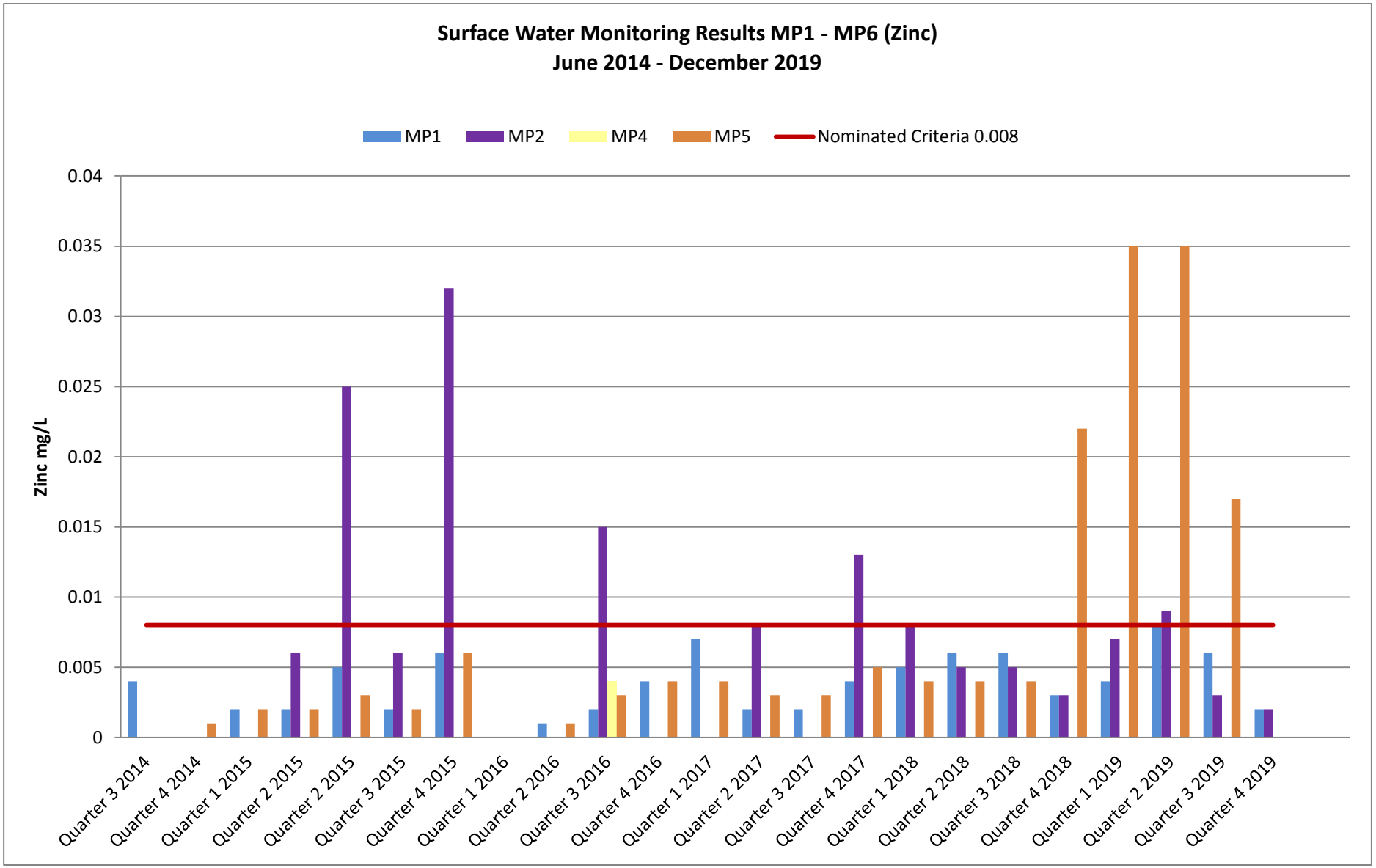
Quarter 1 2019
Quarter 2 2019
Quarter 3 2019
Quarter 4 2019


Surface Water Monitoring Results MP1 - MP6 (Zinc)
June 2014 - December 2019
MP1
MP2
MP4
MP5
Nominated Criteria 0.008
Zinc mg/L
0.04
0.035
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 1 2016
Quarter 2 2016
Quarter 3 2016
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Quarter 1 2017
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Quarter 1 2018
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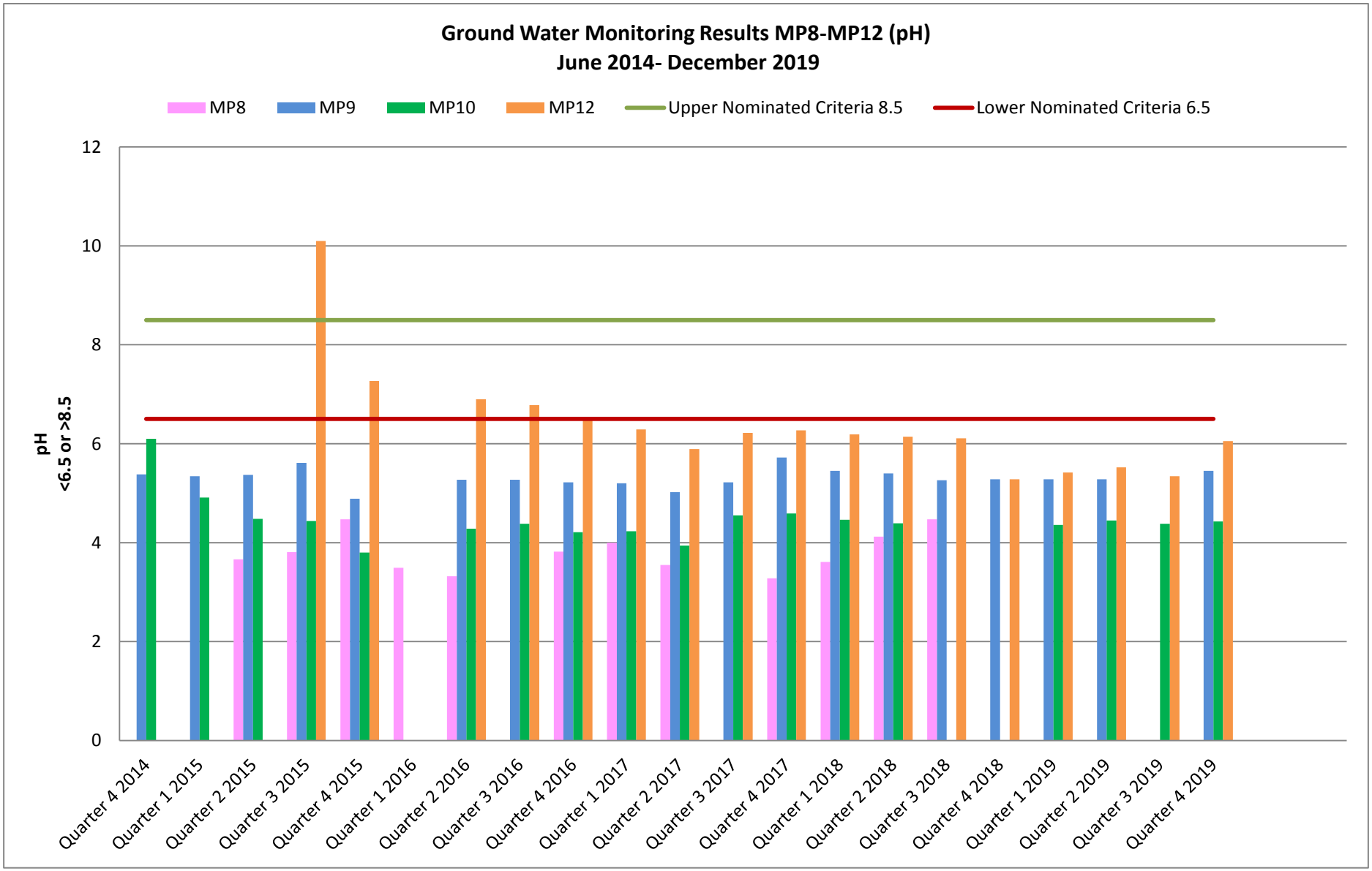
Quarter 1 2019
Quarter 2 2019
Quarter 3 2019
Quarter 4 2019


Ground Water Monitoring Results MP8-MP12 (pH)
June 2014- December 2019
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
0
Quarter 4 2014
Quarter 1 2015
Quarter 2 2015
Quarter 3 2015
Quarter 4 2015
Quarter 1 2016
Quarter 2 2016
Quarter 3 2016
Quarter 4 2016
Quarter 1 2017
Quarter 2 2017
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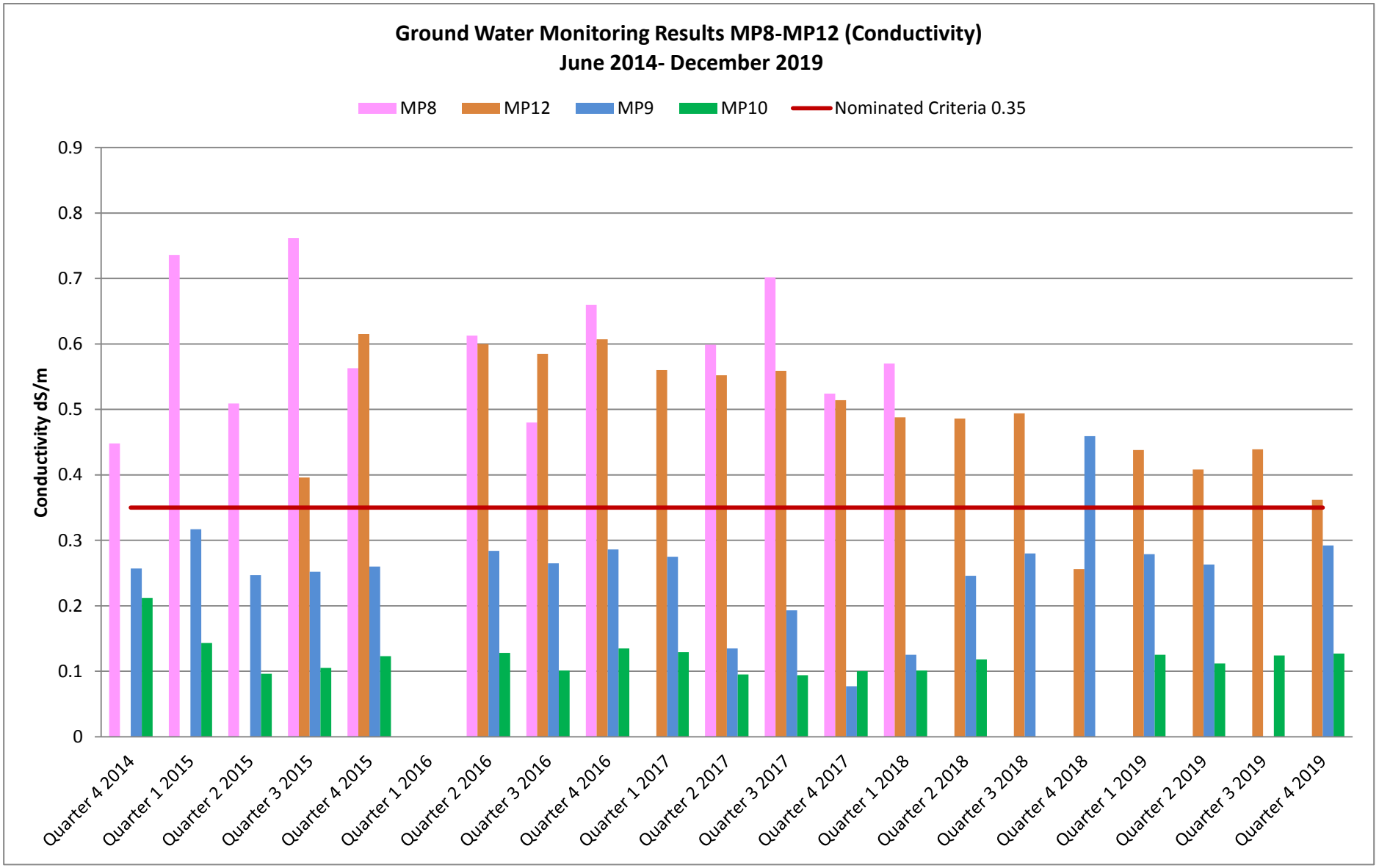
Quarter 1 2019
Quarter 2 2019
Quarter 3 2019
Quarter 4 2019


Ground Water Monitoring Results MP8-MP12 (Conductivity)
June 2014- December 2019
MP8
MP12
MP9
MP10
Nominated Criteria 0.35
Conductivity dS/m
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
Quarter 4 2014
Quarter 1 2015
Quarter 2 2015
Quarter 3 2015
Quarter 4 2015
Quarter 1 2016
Quarter 2 2016
Quarter 3 2016
Quarter 4 2016
Quarter 1 2017
Quarter 2 2017
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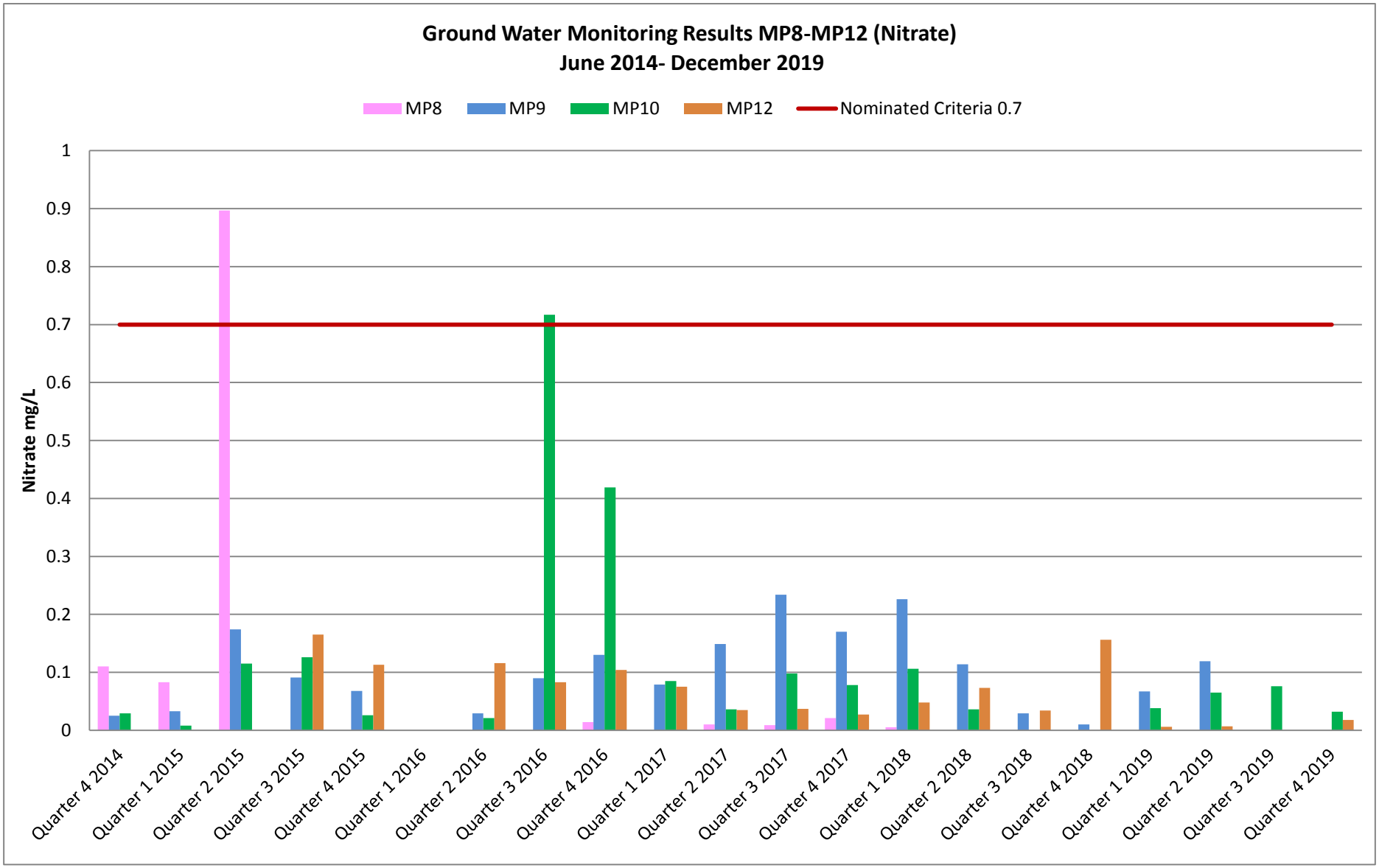
Quarter 1 2019
Quarter 2 2019
Quarter 3 2019
Quarter 4 2019


Ground Water Monitoring Results MP8-MP12 (Nitrate)
June 2014- December 2019
MP8
MP9
MP10
MP12
Nominated Criteria 0.7
Nitrate mg/L
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
Quarter 4 2014
Quarter 1 2015
Quarter 2 2015
Quarter 3 2015
Quarter 4 2015
Quarter 1 2016
Quarter 2 2016
Quarter 3 2016
Quarter 4 2016
Quarter 1 2017
Quarter 2 2017
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Quarter 1 2018
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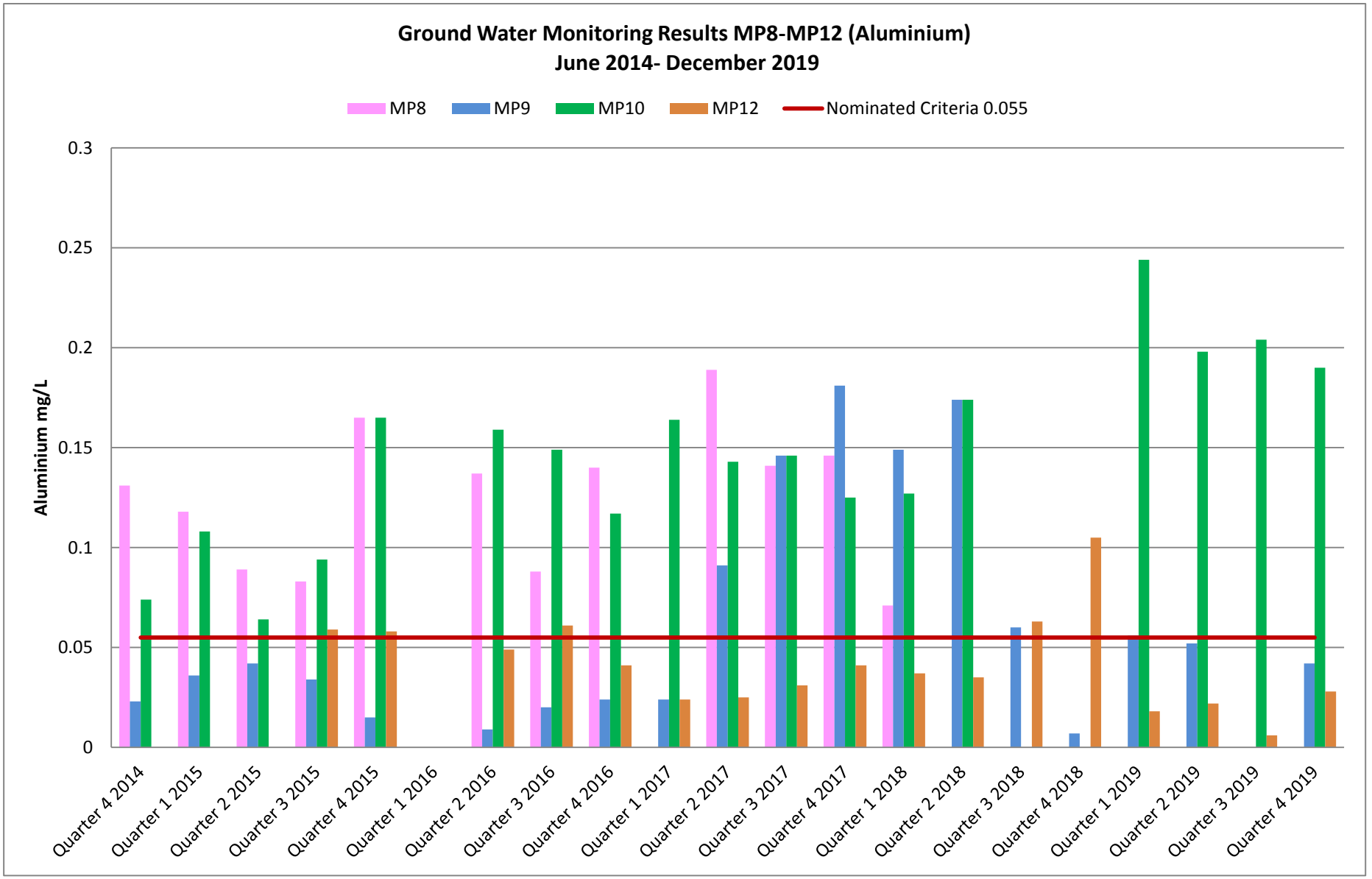
Quarter 4 2018
Quarter 1 2019
Quarter 2 2019
Quarter 3 2019
Quarter 4 2019


Ground Water Monitoring Results MP8-MP12 (Aluminium)
June 2014- December 2019
MP8
MP9
MP10
MP12
Nominated Criteria 0.055
Aluminium mg/L
0.3
0.25
0.2
0.15
0.1
0.05
0
Quarter 4 2014
Quarter 1 2015
Quarter 2 2015
Quarter 3 2015
Quarter 4 2015
Quarter 1 2016
Quarter 2 2016
Quarter 3 2016
Quarter 4 2016
Quarter 1 2017
Quarter 2 2017
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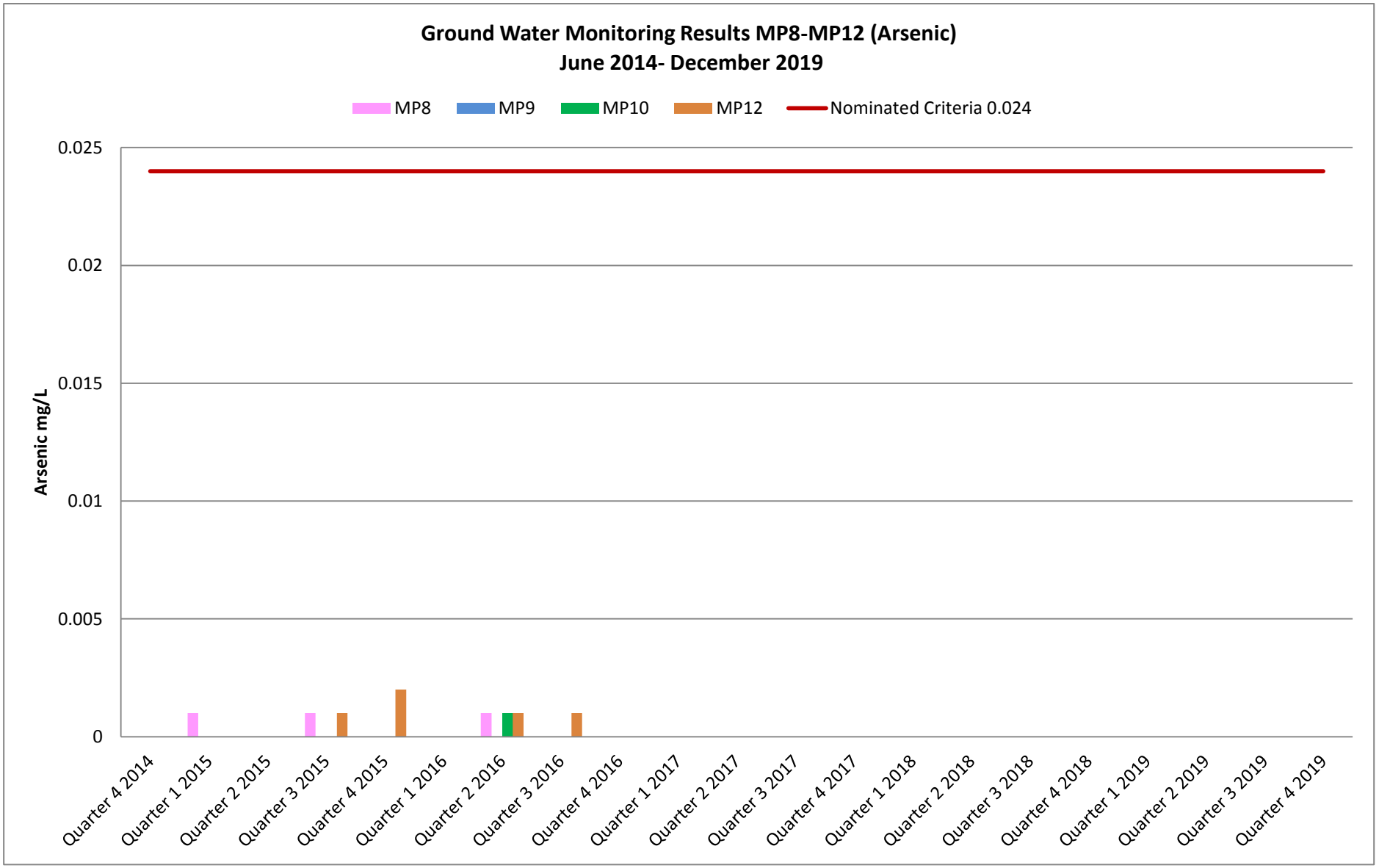
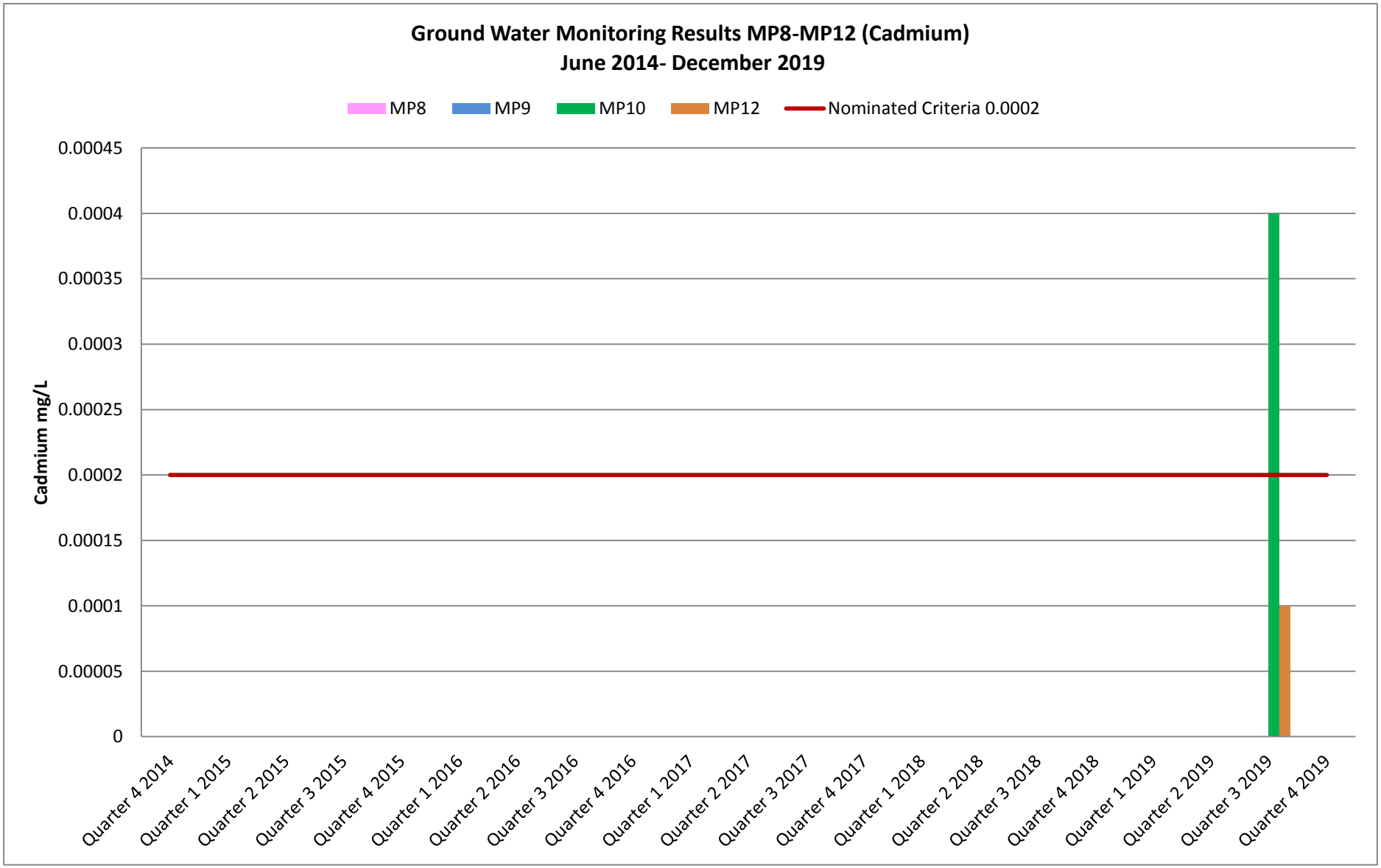
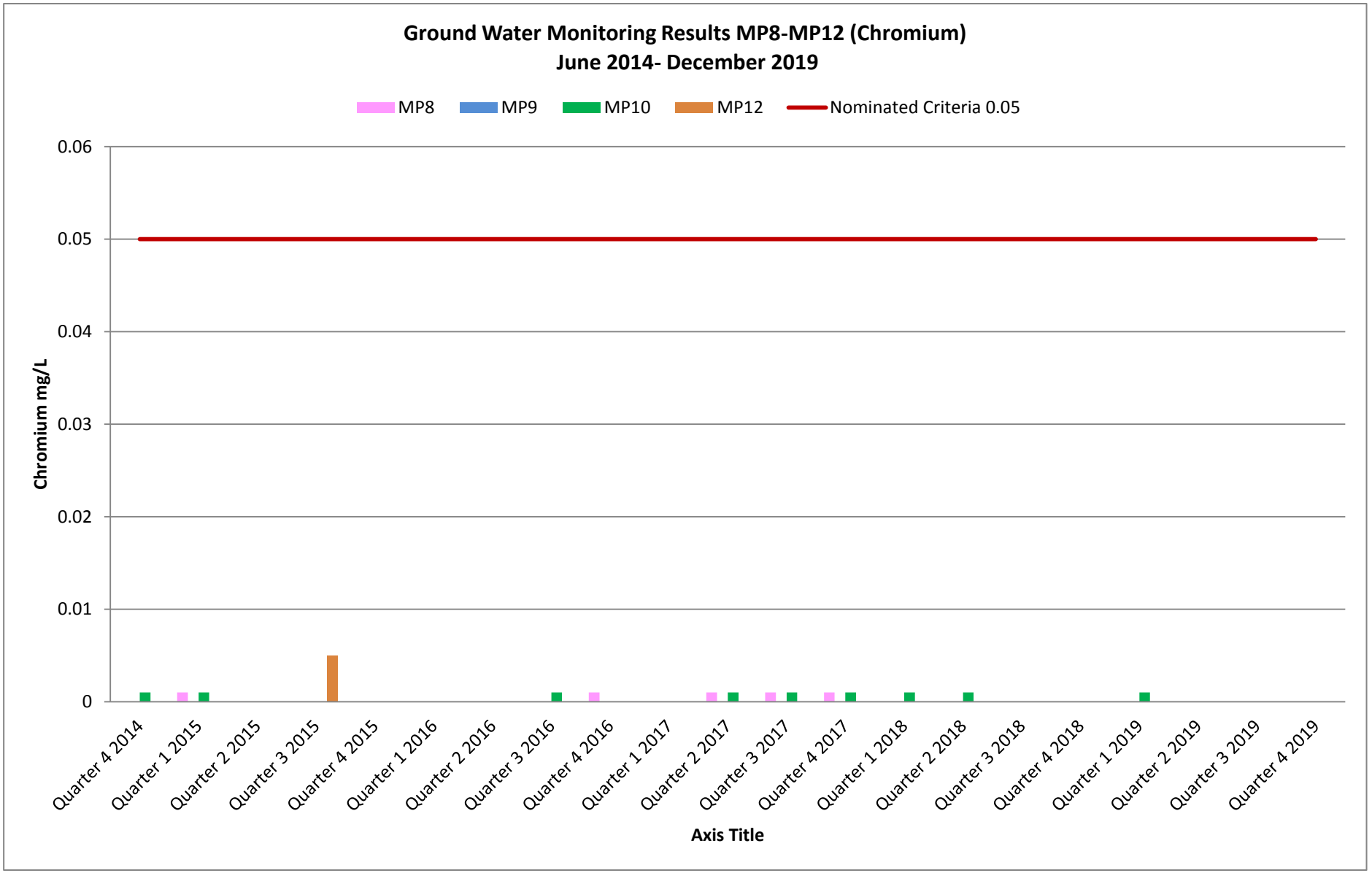
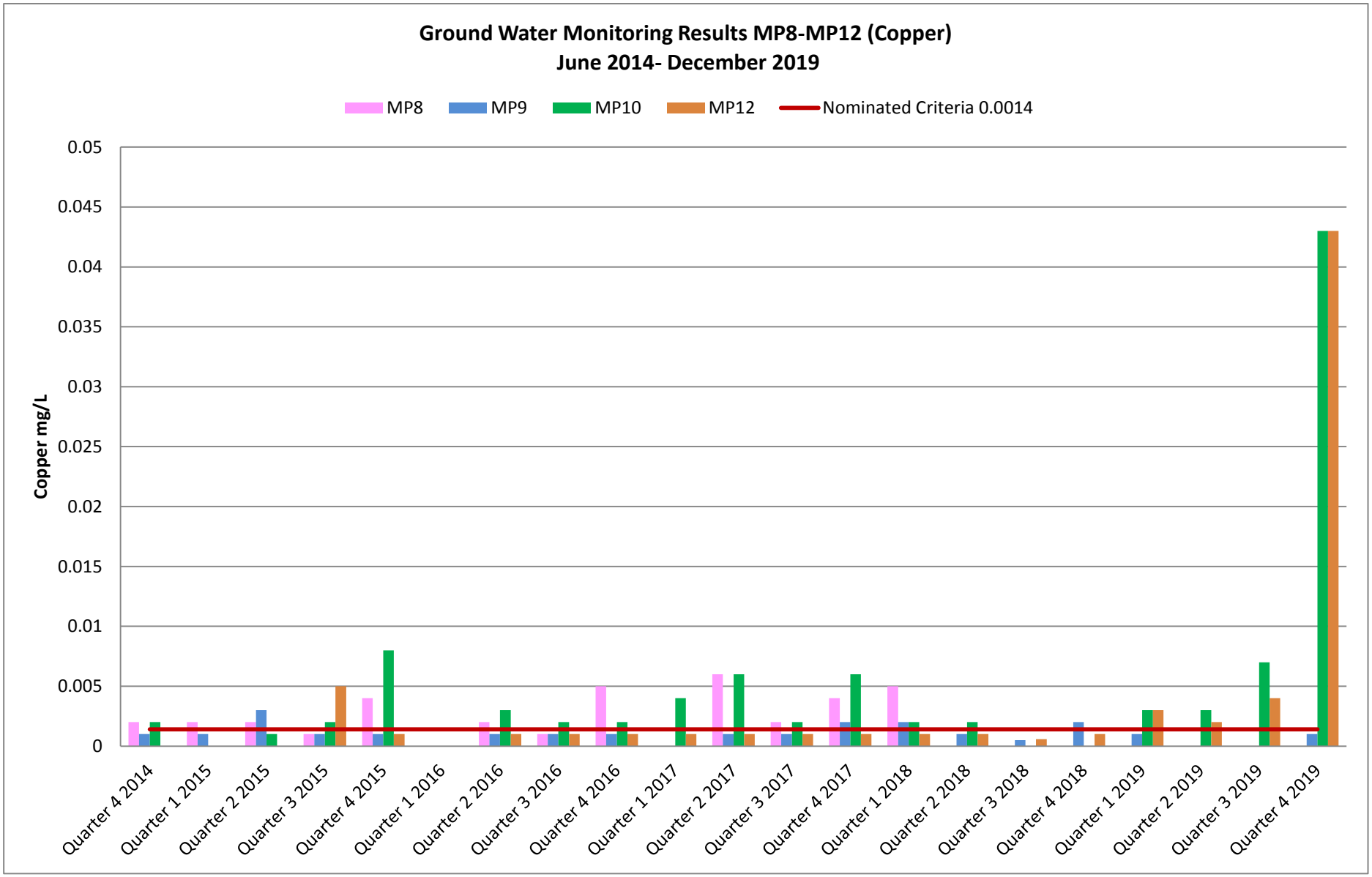
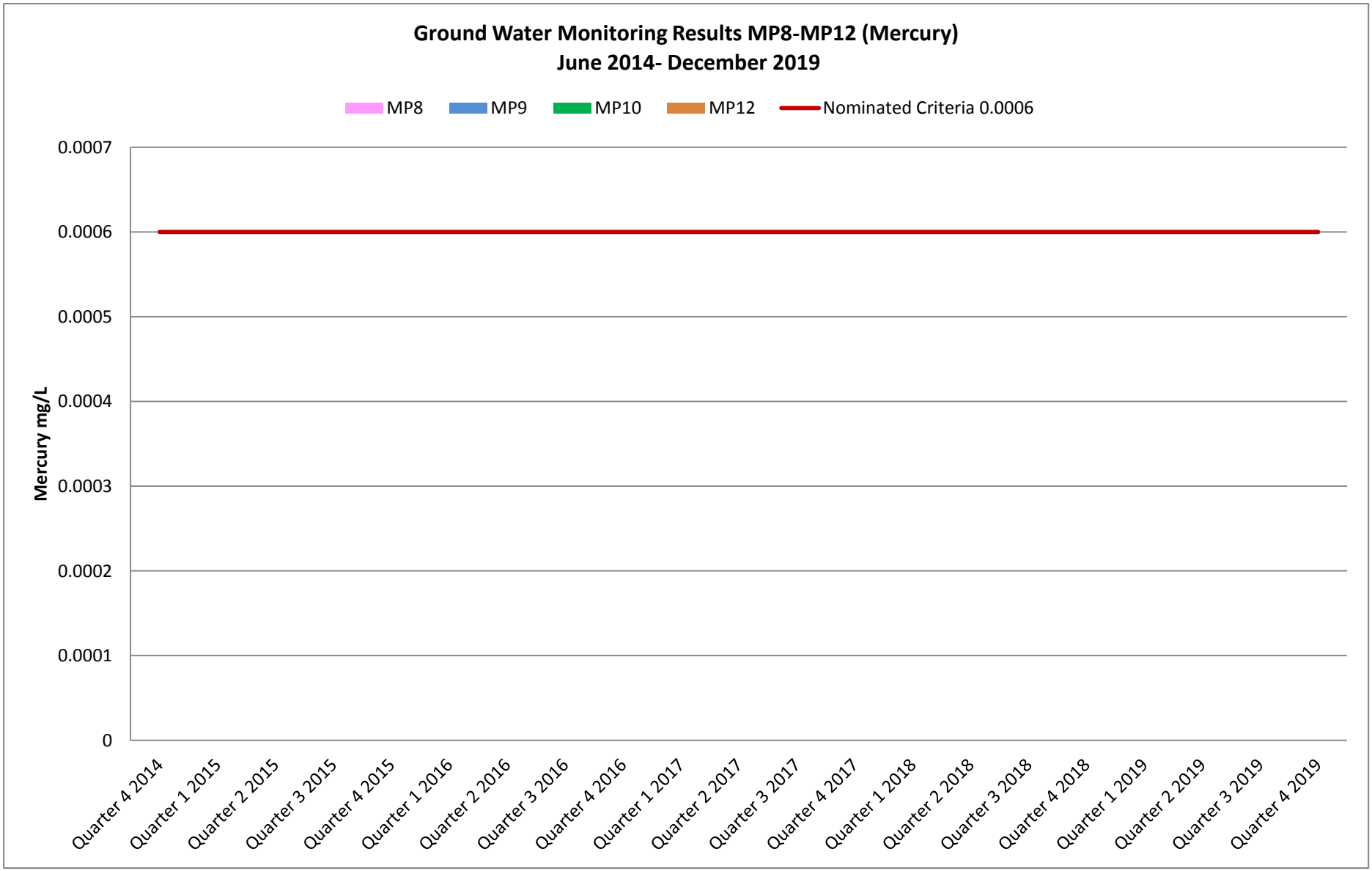
Quarter 2 2018
Quarter 3 2018
Quarter 4 2018
Quarter 1 2019
Quarter 2 2019
Quarter 3 2019
Quarter 4 2019

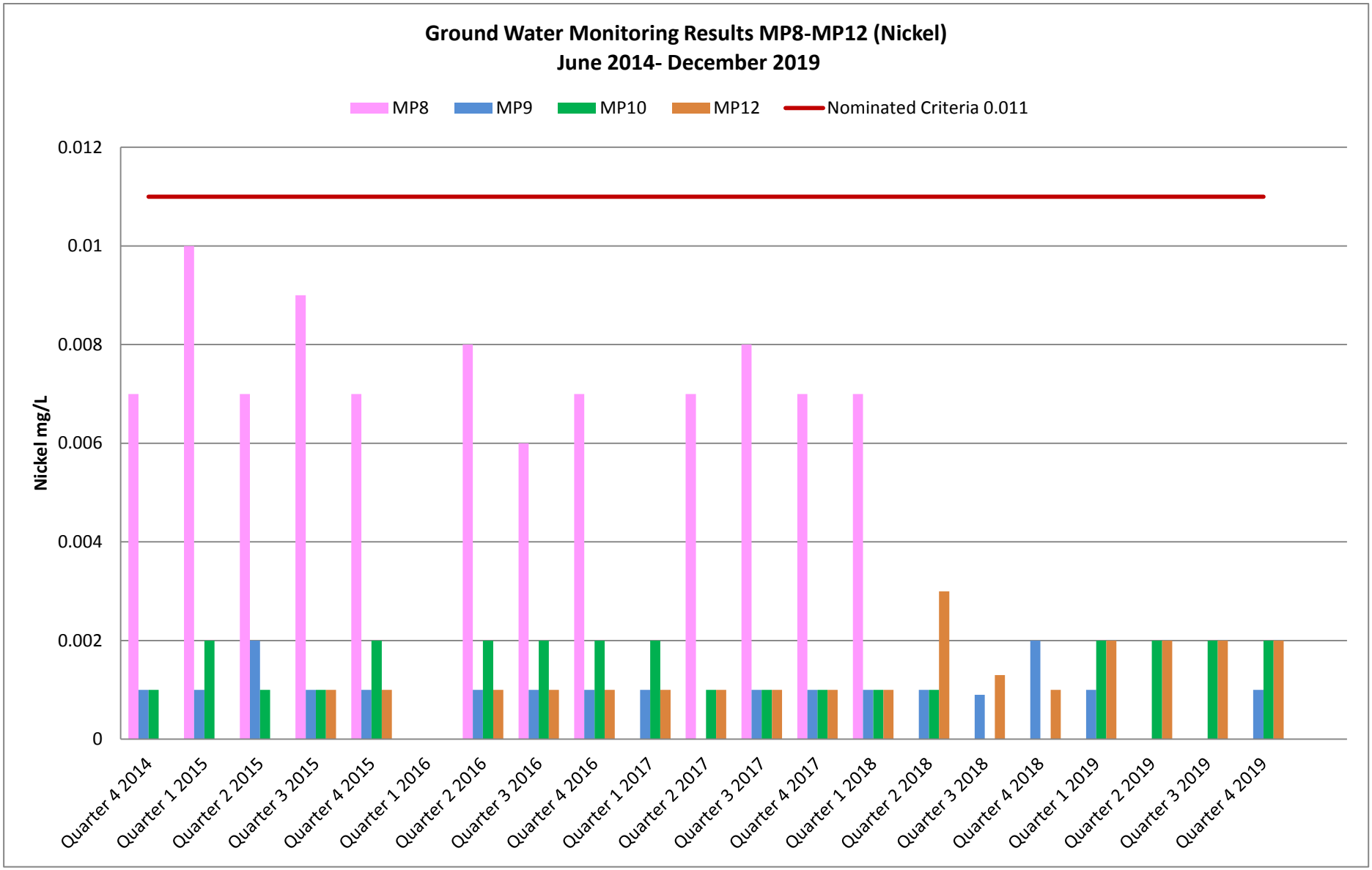

Ground Water Monitoring Results MP8-MP12 (Arsenic)
June 2014- December 2019
MP8
MP9
MP10
MP12
Nominated Criteria 0.024
Arsenic mg/L
0.025
0.02
0.015
0.01
0.005
0
Quarter 4 2014
Quarter 1 2015
Quarter 2 2015
Quarter 3 2015
Quarter 4 2015
Quarter 1 2016
Quarter 2 2016
Quarter 3 2016
Quarter 4 2016
Quarter 1 2017
Quarter 2 2017
Quarter 3 2017
Quarter 4 2017
Quarter 1 2018
Quarter 2 2018
Quarter 3 2018
Quarter 4 2018
Quarter 1 2019
Quarter 2 2019
Quarter 3 2019
Quarter 4 2019

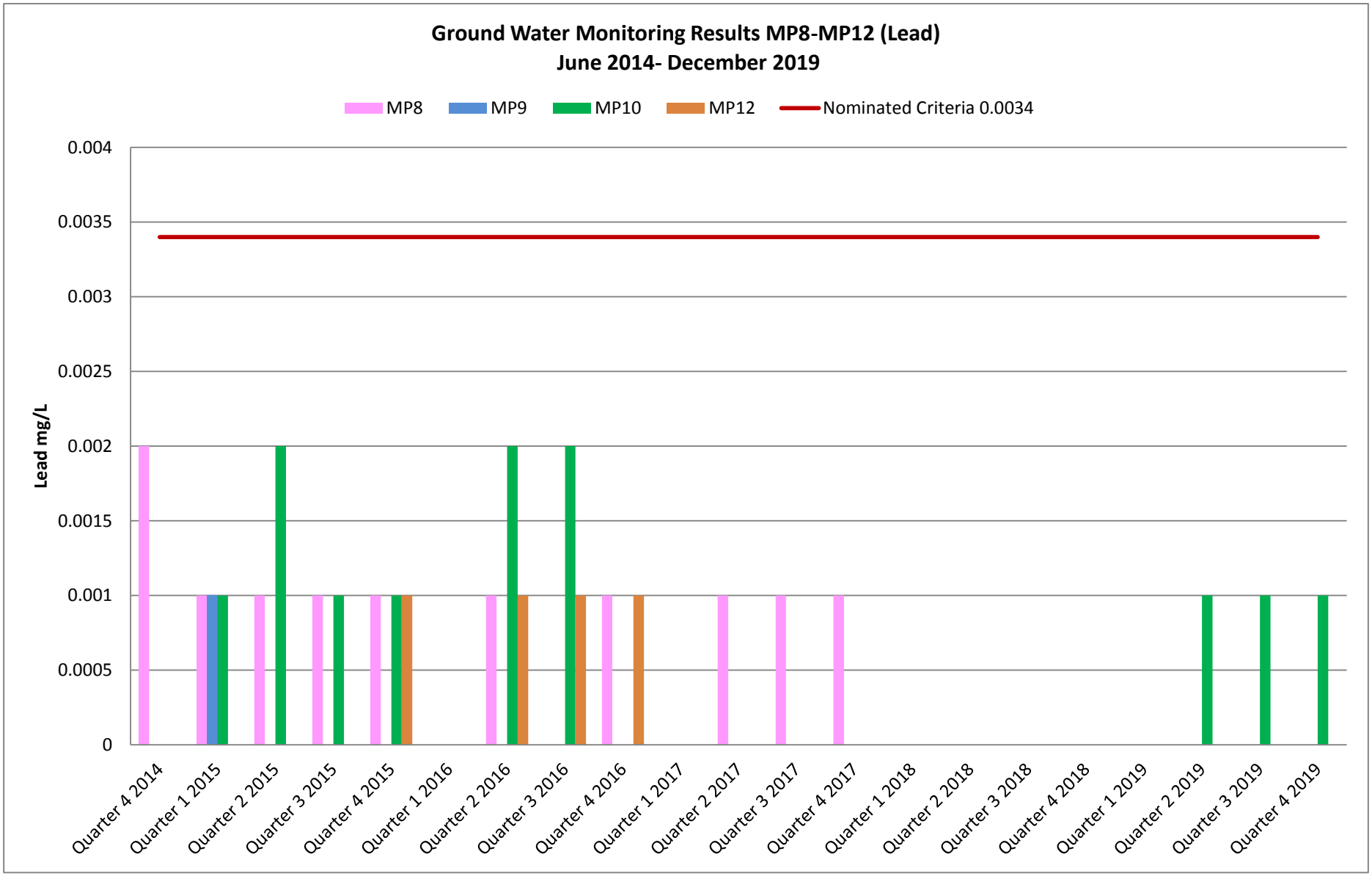

Ground Water Monitoring Results MP8-MP12 (Cadmium)
June 2014- December 2019
MP8
MP9
MP10
MP12
Nominated Criteria 0.0002
Cadmium mg/L
0.00045
0.0004
0.00035
0.0003
0.00025
0.0002
0.00015
0.0001
0.00005
0
Quarter 4 2014
Quarter 1 2015
Quarter 2 2015
Quarter 3 2015
Quarter 4 2015
Quarter 1 2016
Quarter 2 2016
Quarter 3 2016
Quarter 4 2016
Quarter 1 2017
Quarter 2 2017
Quarter 3 2017
Quarter 4 2017
Quarter 1 2018
Quarter 2 2018
Quarter 3 2018
Quarter 4 2018
Quarter 1 2019
Quarter 2 2019
Quarter 3 2019
Quarter 4 2019

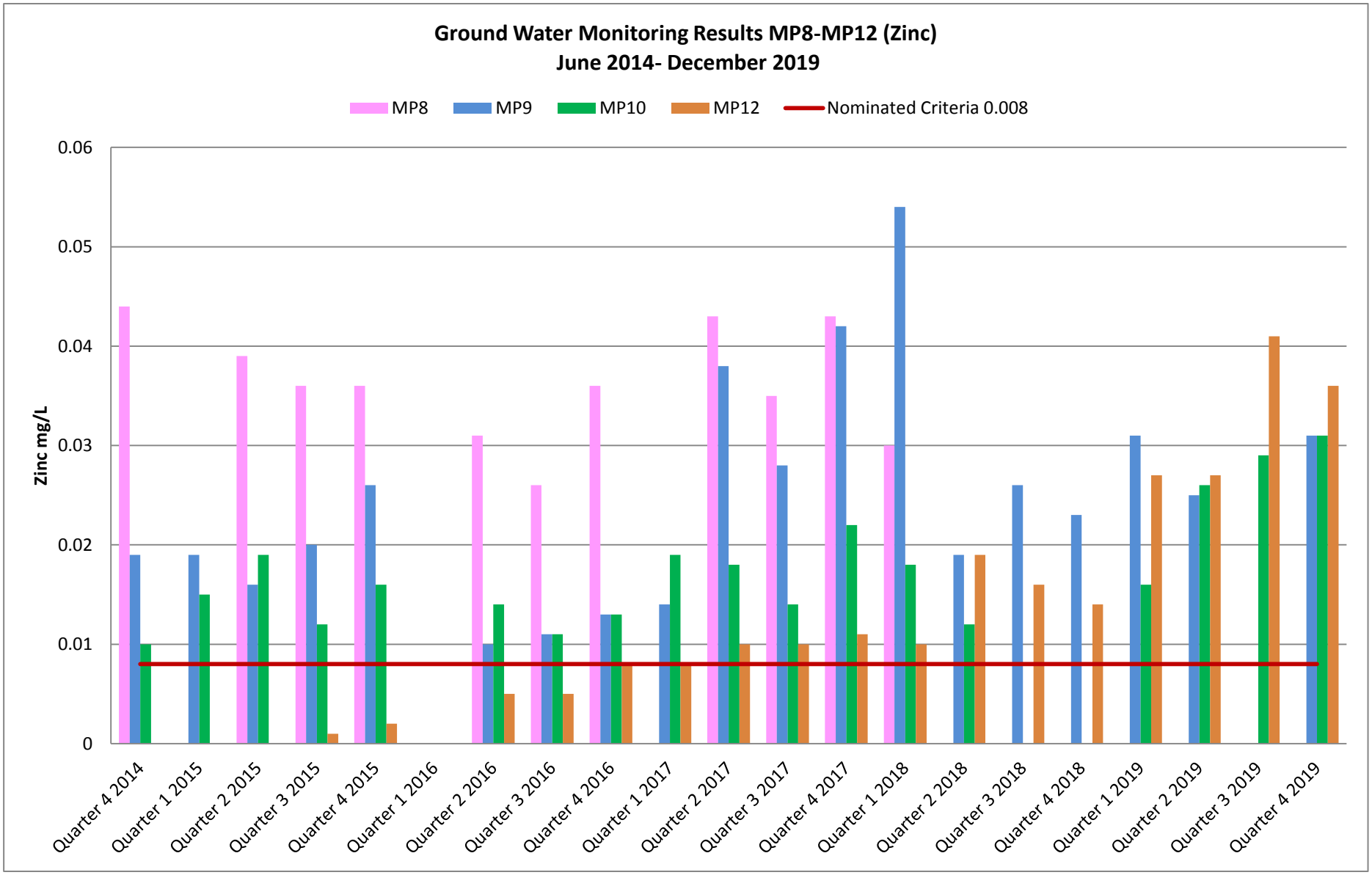

Ground Water Monitoring Results MP8-MP12 (Chromium)
June 2014- December 2019
MP8
MP9
MP10
MP12
Nominated Criteria 0.05
0.06
0.05
0.04
0.03
0.02
0.01
0
Chromium mg/L
Quarter 4 2014
Quarter 1 2015
Quarter 2 2015
Quarter 3 2015
Quarter 4 2015
Quarter 1 2016
Quarter 2 2016
Quarter 3 2016
Quarter 4 2016
Quarter 1 2017
Quarter 2 2017
Quarter 3 2017
Quarter 4 2017
Quarter 1 2018
Quarter 2 2018
Quarter 3 2018
Quarter 4 2018
Quarter 1 2019
Quarter 2 2019
Quarter 3 2019
Quarter 4 2019
Axis Title

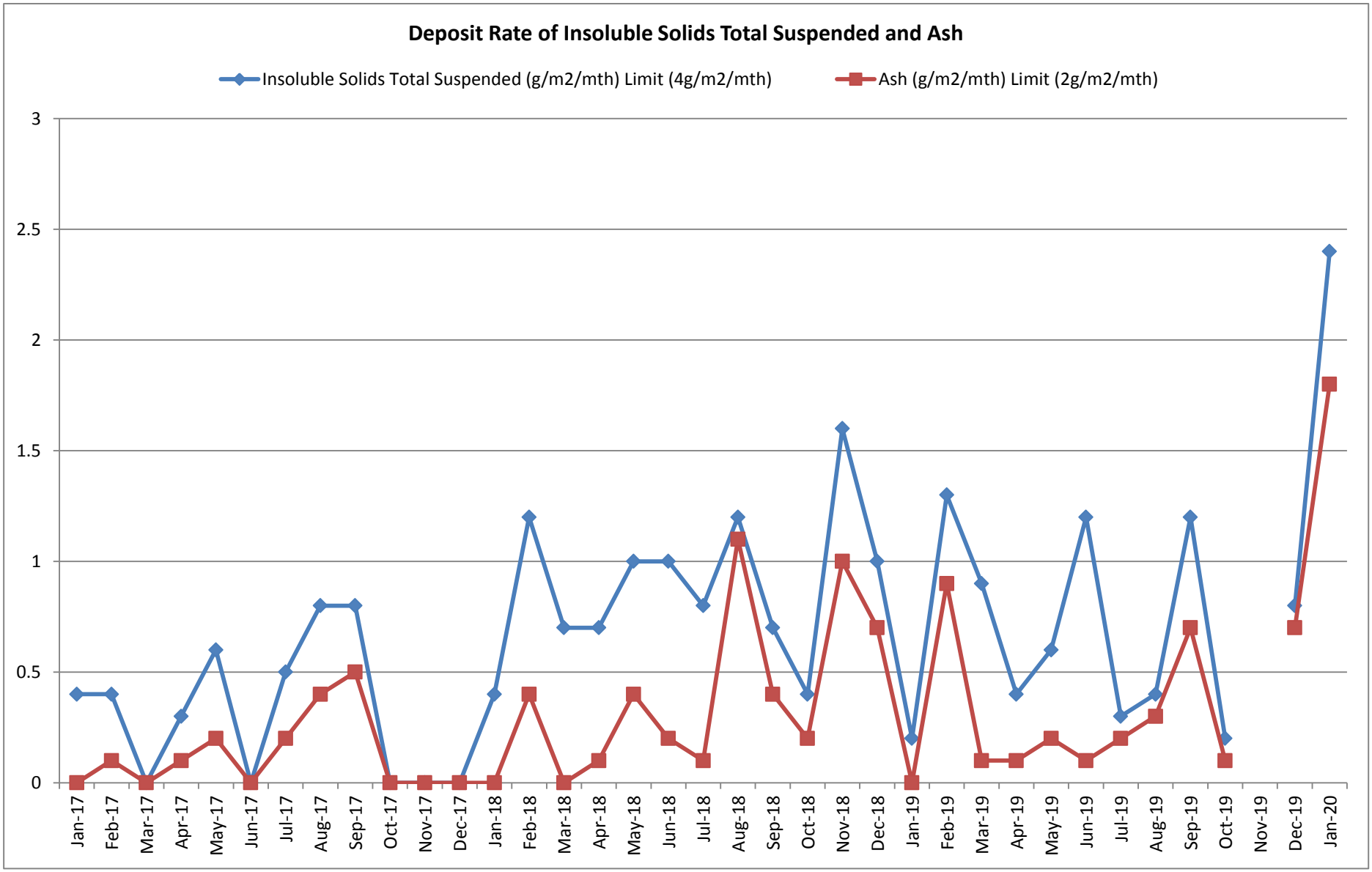

Ground Water Monitoring Results MP8-MP12 (Copper)
June 2014- December 2019
MP8
MP9
MP10
MP12
Nominated Criteria 0.0014
Copper mg/L
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
Quarter 4 2014
Quarter 1 2015
Quarter 2 2015
Quarter 3 2015
Quarter 4 2015
Quarter 1 2016
Quarter 2 2016
Quarter 3 2016
Quarter 4 2016
Quarter 1 2017
Quarter 2 2017
Quarter 3 2017
Quarter 4 2017
Quarter 1 2018
Quarter 2 2018
Quarter 3 2018
Quarter 4 2018
Quarter 1 2019
Quarter 2 2019
Quarter 3 2019
Quarter 4 2019


Ground Water Monitoring Results MP8-MP12 (Mercury)
June 2014- December 2019
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
0
Quarter 4 2014
Quarter 1 2015
Quarter 2 2015
Quarter 3 2015
Quarter 4 2015
Quarter 1 2016
Quarter 2 2016
Quarter 3 2016
Quarter 4 2016
Quarter 1 2017
Quarter 2 2017
Quarter 3 2017
Quarter 4 2017
Quarter 1 2018
Quarter 2 2018
Quarter 3 2018
Quarter 4 2018
Quarter 1 2019
Quarter 2 2019
Quarter 3 2019
Quarter 4 2019


Ground Water Monitoring Results MP8-MP12 (Nickel)
June 2014- December 2019
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 4 2014
Quarter 1 2015
Quarter 2 2015
Quarter 3 2015
Quarter 4 2015
Quarter 1 2016
Quarter 2 2016
Quarter 3 2016
Quarter 4 2016
Quarter 1 2017
Quarter 2 2017
Quarter 3 2017
Quarter 4 2017
Quarter 1 2018
Quarter 2 2018
Quarter 3 2018
Quarter 4 2018
Quarter 1 2019
Quarter 2 2019
Quarter 3 2019
Quarter 4 2019


Ground Water Monitoring Results MP8-MP12 (Lead)
June 2014- December 2019
MP8
MP9
MP10
MP12
Nominated Criteria 0.0034
Lead mg/L
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005
0
Quarter 4 2014
Quarter 1 2015
Quarter 2 2015
Quarter 3 2015
Quarter 4 2015
Quarter 1 2016
Quarter 2 2016
Quarter 3 2016
Quarter 4 2016
Quarter 1 2017
Quarter 2 2017
Quarter 3 2017
Quarter 4 2017
Quarter 1 2018
Quarter 2 2018
Quarter 3 2018
Quarter 4 2018
Quarter 1 2019
Quarter 2 2019
Quarter 3 2019
Quarter 4 2019


Ground Water Monitoring Results MP8-MP12 (Zinc)
June 2014- December 2019
MP8
MP9
MP10
MP12
Nominated Criteria 0.008
Zinc mg/L
0.06
0.05
0.04
0.03
0.02
0.01
0
Quarter 4 2014
Quarter 1 2015
Quarter 2 2015
Quarter 3 2015
Quarter 4 2015
Quarter 1 2016
Quarter 2 2016
Quarter 3 2016
Quarter 4 2016
Quarter 1 2017
Quarter 2 2017
Quarter 3 2017
Quarter 4 2017
Quarter 1 2018
Quarter 2 2018
Quarter 3 2018
Quarter 4 2018
Quarter 1 2019
Quarter 2 2019
Quarter 3 2019
Quarter 4 2019


Deposit Rate of Insoluble Solids Total Suspended and Ash
Insoluble Solids Total Suspended (g/m2/mth) Limit (4g/m2/mth)
Ash (g/m2/mth) Limit (2g/m2/mth)
3
2.5
2
1.5
1
0.5
0
Jan-17
Feb-17
Mar-17
Apr-17
May-17
Jun-17
Jul-17
Aug-17
Sep-17
Oct-17
Nov-17
Dec-17
Jan-18
Feb-18
Mar-18
Apr-18
May-18
Jun-18
Jul-18
Aug-18
Sep-18
Oct-18
Nov-18
Dec-18
Jan-19
Feb-19
Mar-19
Apr-19
May-19
Jun-19
Jul-19
Aug-19
Sep-19
Oct-19
Nov-19
Dec-19
Jan-20

APPENDIX H

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