

Annual Review

Moorebank Precinct East Stage 2



Moorebank Intermodal Precinct East Stage 2

SSD 7628

Annual Review 2023

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Acronyms and Definitions

Acronym / Term	Meaning
ANZECC	Australian and New Zealand Environment and Conservation Council
BTODR	Biannual Trip Origin and Destination Report
CAQMP	Construction Air Quality Management Plan
CCC	Community Consultive Committee
CCR	Construction Compliance Report
CEMP	Construction Environmental Management Plan
CNVMP	Construction Noise and Vibration Management Plan
CoC	Conditions of Consent
DPE	Department of Planning and Environment (formerly Department of Planning, Industry and Environment)
EIS	Environmental Impact Assessment
EPA	Environment Protection Authority
EPL	Environment Protection Licence
GFA	Gross floor area
MAUW	Moorebank Avenue Upgrade Works
MIP	Moorebank Intermodal Precinct (formerly SIMTA and/or Moorebank Logistic Park)
MPE	Moorebank Precinct East
MPW	Moorebank Precinct West
NMLs	Noise management Levels
OAQMP	Operational Air Quality Management Plan
OCR	Operational Compliance Report
OEMP	Operational Environmental Management Plan
ONVMP	Operational Noise and Vibration Management Plan
OSD	On-site detention
PFAS	Per & Polyfluoroalkyl Substances
RtS	Response to Submissions
SSD	State significant development



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1. Introduction

This Annual Review, as required by condition of consent (CoC) C10 of the Moorebank Precinct East (MPE) Stage 2 State significant development (SSD) 7628 (the Development), has been prepared by for the review period January to December 2023.

1.1. Development Ownership

In 2022, LOGOS joined the ESR group of companies and since August 2024, the LOGOS and ESR operations have been integrated to now operate under the name ESR Australia & NZ (ESR). The applicant/ approval holder entity remains unchanged at this stage until further notice and references to LOGOS and LOGOS authored documents and/or plans may continue and remains relevant where LOGOS and ESR are used interchangeably.

1.2. Moorebank Intermodal Precinct

The MPE and Moorebank Precinct West (MPW) are being developed as part of the broader Moorebank Intermodal Precinct (MIP), operated by operated by ESR Australia & NZ (formerly LOGOS). When completed, the MIP will move 1.05 million shipping containers annually. It will also feature Australia's largest purpose-built warehouse and distribution precinct, serviced by automated technology which will see driverless shuttle carriers collect and transport containers around the precinct to be processed, unpacked and stored on site or distributed in smaller consignments.

Construction activities are currently underway across the MIP, for both MPW and MPE developments. Operational activities are commencing progressively across the MIP Site.

1.3. The MPE Stage 2 development

Approval for the construction and operation of the MPE Stage 2 development (SSD 7628) was received on 31 January 2018. The development approval has been subject to the following modification applications:

- MPE Stage 2 Modification 2 (SSD 7628-Mod 2), approved on 31 January 2020
- MPE Stage 2 Modification 3 (SSD 7628-Mod 3), approved on 18 December 2020
- MPE Stage 2 Modification 4 (SSD 7628- Mod 4), approved on 19 January 2021
- MPE Stage 2 Modification 1 (SSD 7628-Mod 1), approved on 14 March 2022
- MPE Stage 2 Modification 5 (SSD 7628- Mod 5), approved on 4 September 2023
- MPE Stage 2 Modification 6 (SSD 7628- Mod 6), approved on 22 February 2024.

The key components of the MPE Stage 2 development are:

- earthworks, including the importation of 600,000m³ of fill and vegetation clearing
- construction of 300,000m² gross floor area (GFA) of warehousing and ancillary offices
- warehouse fit-out

- freight village - 8,000m² GFA of ancillary retail, commercial and light industrial land uses
- internal road network and hardstand across the site
- ancillary supporting infrastructure within the site, including:
 - stormwater, drainage and flooding infrastructure
 - utilities relocation/installation
 - fencing, signage, lighting, and landscaping
- Moorebank Avenue Upgrade Works (MAUW)
- intersection upgrades along Moorebank Avenue including:
 - Moorebank Avenue/MPE Stage 2 access
 - Moorebank Avenue/MPE Stage 1 northern access
 - Moorebank Avenue/MPE Stage 2 central access
 - MPW southern access/MPE Stage 2 southern emergency access.

These works continue to progress across the MPE development.

1.4. Scope and purpose

This Annual Review has been prepared to address CoC C10 of the SSD 7628 development consent. Table 1-1 outlines the requirements of CoC C10 and where they have been addressed within this document.

Table 1-1 Compliance Matrix, SSD 7628 CoC C10

Condition C10	Section Reference
The review must:	
(a) describe the development that was carried out in the previous calendar year, and the development that is proposed to be carried out over the next year;	Section 2
(b) include a comprehensive review of the monitoring results and complaints records from the previous year, including a comparison of these against the:	Section 3
i. the relevant statutory requirements, limits or performance measures/criteria;	Section 3
ii. requirements of any plan or program required under this consent;	Section 3

Condition C10	Section Reference
iii. the monitoring results of previous years; and	Section 3
iv. the relevant predictions in the EIS, Submissions Report, Consolidated assessment clarification responses; Modification Assessment, or conditions of this consent;	Section 3
(c) identify any non-compliance over the previous year, and describe what actions were (or are being) taken to ensure compliance;	Section 4
(d) identify any trends in the monitoring data over the life of the development;	Section 3
(e) identify any discrepancies between the predicted and actual impacts of the development, and analyse the potential cause of any significant discrepancies; and	Section 3
(f) describe what measures will be implemented over the next year to improve the environmental performance of the development.	Section 5
The Applicant must ensure that copies of the Annual Review are submitted to Council and are available to the CCC and any interested person upon request.	For Reference

2. Summary of Activities

This section describes the activities that were carried out during the 2023 review period.

2.1. Development Activities in 2023

2.1.1. Planning Activities

During the reporting period, the following activities relating to planning and environmental approvals were completed;

- SSD 7628- Mod 5 was approved during the reporting period on the 4 September 2023.
- SSD 7628- Mod 6 was submitted to DPE on the 1 November 2022. Modification 6 remained under assessment with DPE in 2023 and was since approved on the 22 February 2024.

2.1.2. Environmental Activities

The environmental activities that were forecast in the 2022 Annual Review and undertaken during the current review period are summarised in Table 2-1 below.

Table 2-1 Outcomes of environmental activities in 2023

Activity #	Aspect	Activities Forecast in 2022	Outcome in 2023
1	Operational Biodiversity Monitoring	Operational Biodiversity monitoring will be ongoing in 2023.	Operational Biodiversity monitoring continued to be undertaken as required in 2023.
2	Operational Traffic and Air Quality Monitoring Program	Operational Traffic and Air Quality Monitoring will be ongoing in 2023, including the Biannual Trip Origin and Destination Report, Workplace Travel Plan, Annual Travel Surveys and Annual Operation Noise Monitoring Report.	The following Biannual Trip Origin Destination Reports were published for the reporting period; <ul style="list-style-type: none"> - November 2022- April 2023; and - May 2023- November 2023.
3	Ongoing Construction Environmental Management Plan (CEMP) and sub-plan updates	As construction activities continue across MPE Stage 2, the CEMP and sub-plan documentation will be updated where necessary to reflect any changes.	Updates to documentation were undertaken as required.

Activity #	Aspect	Activities Forecast in 2022	Outcome in 2023
4	Ongoing Operational Environmental Management Plan (OEMP) and sub-plan updates	As progressive operational activities continue in 2023, the OEMP and sub-plan documentation will be updated where necessary to reflect any changes.	Updates to documentation were undertaken as required.
5	Ongoing six-monthly construction compliance reports	Two six-monthly construction compliance reports (CCRs) are due to be completed in the 2023 review period.	Two six-monthly construction compliance reports (CCRs) were undertaken for the 2023 review period.
6	Ongoing six-monthly operations compliance reports	Two six-monthly operations compliance reports (OCRs) are due to be completed in the 2023 review period.	Two six-monthly operational compliance reports (CCRs) were undertaken for the 2023 review period.

2.1.3. Construction Activities

The following construction activities were undertaken during the review period:

- sewer rising main installation
- road signage and line marking installation as part of Chatham Avenue closure
- construction of warehouses 6 and 7
- stockpile relocation
- on site detention basin (OSD) 10 bulk earthworks and ERSED works
- road works (Central Estate Road) service installation
- general site maintenance activities including stockpile stabilisation
- environmental monitoring.

2.1.4. Operational Activities

The following operational activities were undertaken during the review period:

- warehouse 1, 3a, 3b, 4a, 4b and 5 operations
- movement and storage of containers/ goods in and out of the terminal via rail
- transfer of containers between terminal and warehouses via internal transfer vehicles
- pick-up and delivery of containers/ goods from, or to, warehouses via truck movements



- security, maintenance and monitoring of all infrastructure and equipment related to the above activities.

3. Environmental Performance

This section provides a review of the monitoring results and associated environmental outcomes for the review period. Recorded results are considered against relevant statutory requirements, limits or performance measures/criteria, and the requirements of any plan or program required under the SSD 7628 development consent.

3.1. Air quality

Air quality monitoring results for the review period are summarised in Table 3-1.

Table 3-1 Air quality monitoring results

Development Phase	Approved Limits/ EIS Prediction/ Trigger Levels	Requirement Source	Results	Results Source
Construction	<p>Deposited dust must not exceed an increase of 2g/m²/month or maximum of 4g/m²/month at the closest off-site sensitive receiver.</p> <p>Deposited dust assessed as insoluble solids.</p>	<p>CoC B55</p> <p>Section 4.1.2 Construction Air Quality Management Plan (CAQMP)</p>	<p>No monitoring was completed at the closest off-site sensitive receiver, site boundary monitoring was undertaken in the alternative.</p> <p>No exceedances of the 2g/m²/month increase, and 4g/m²/month maximum criteria were reported in the review period.</p>	Dust Deposition Summary Reports (prepared by Site Environmental and Remediation Services) undertaken between 22/03/2023 - 22/02/2024.
Construction	24-hour maximum: Asbestos – 0.01 fibres/mL	<p>SafeWork NSW Asbestos Code of Practice (2019)</p> <p>Section 10.6 Asbestos Management Plan</p>	No work triggering the requirement for daily airborne asbestos monitoring has been undertaken during the reporting period.	NA

Development Phase	Approved Limits/ EIS Prediction/ Trigger Levels	Requirement Source	Results	Results Source
Construction and Operation	24-hour average: PM _{2.5} - 25 µg/m ³ PM ₁₀ - 50 µg/m ³	National Environment Protection (Ambient Air Quality) Measure Section 4.1.2 CAQMP Table 4.2 Operational Air Quality Management Plan (OAQMP)	PM2.5: No exceedances were recorded between November 2022 and October 2023. PM10: Six exceedances were recorded between November 2022 and October 2023. Results for November and December 2023 will be included as part of the 2024 Annual Review.	Operational Air Quality Six Monthly Compliance Report #6 – November 2022 to April 2023 Operational Air Quality Six Monthly Compliance Report #7 – May 2023 to October 2023
	1 hour average: NO ₂ – 0.12ppm 8-hour average: CO – 9.0ppm	Table 4.2 OAQMP	No exceedances were recorded between November 2022 and October 2023. Results for November and December 2023 will be included as part of the 2024 Annual Review.	Operational Air Quality Six Monthly Compliance Report #6 – November 2022 to April 2023 Operational Air Quality Six Monthly Compliance Report #7 – May 2023 to October 2023

3.1.1. Depositional Dust

Due to property access constraints preventing the installation of monitors, no monitoring was undertaken at the closest off-site sensitive receiver(s). In the alternative, monitors have been located at the boundary of the MPE development to provide indicative results. As monitoring results are closer to the development, the present results are higher than what would be expected at the off-site sensitive receivers.

No exceedances of the dust depositional levels were recorded during the reporting period. The number of exceedances recorded for the 2020 – 2023 review periods is illustrated in Figure 3-1.

Depositional dust monitoring results during the review period are consistent with that recorded for the 2022, 2021 and 2020 review periods. Consistency of the results demonstrate that dust continues to be effectively managed through implementation of the measures outlined in the MPE Stage 2 CAQMP, as predicted in the Environmental Impact Statement (EIS) (Arcadis, December 2016) and is reflective of the progression of operational activities on the MPE Stage 2 Site.

One complaint relating to air quality was recorded during the review period. This complaint was responded to in accordance with the Community Communication Strategy (SSS2- QPMS-EN-PLN-00001, Rev 011, 19/03/2021) and is summarised in Section 3.8 below.

3.1.2. Asbestos Monitoring

No works triggering the requirement for airborne asbestos monitoring were undertaken during the review period.

3.1.3. Real Time Air Quality

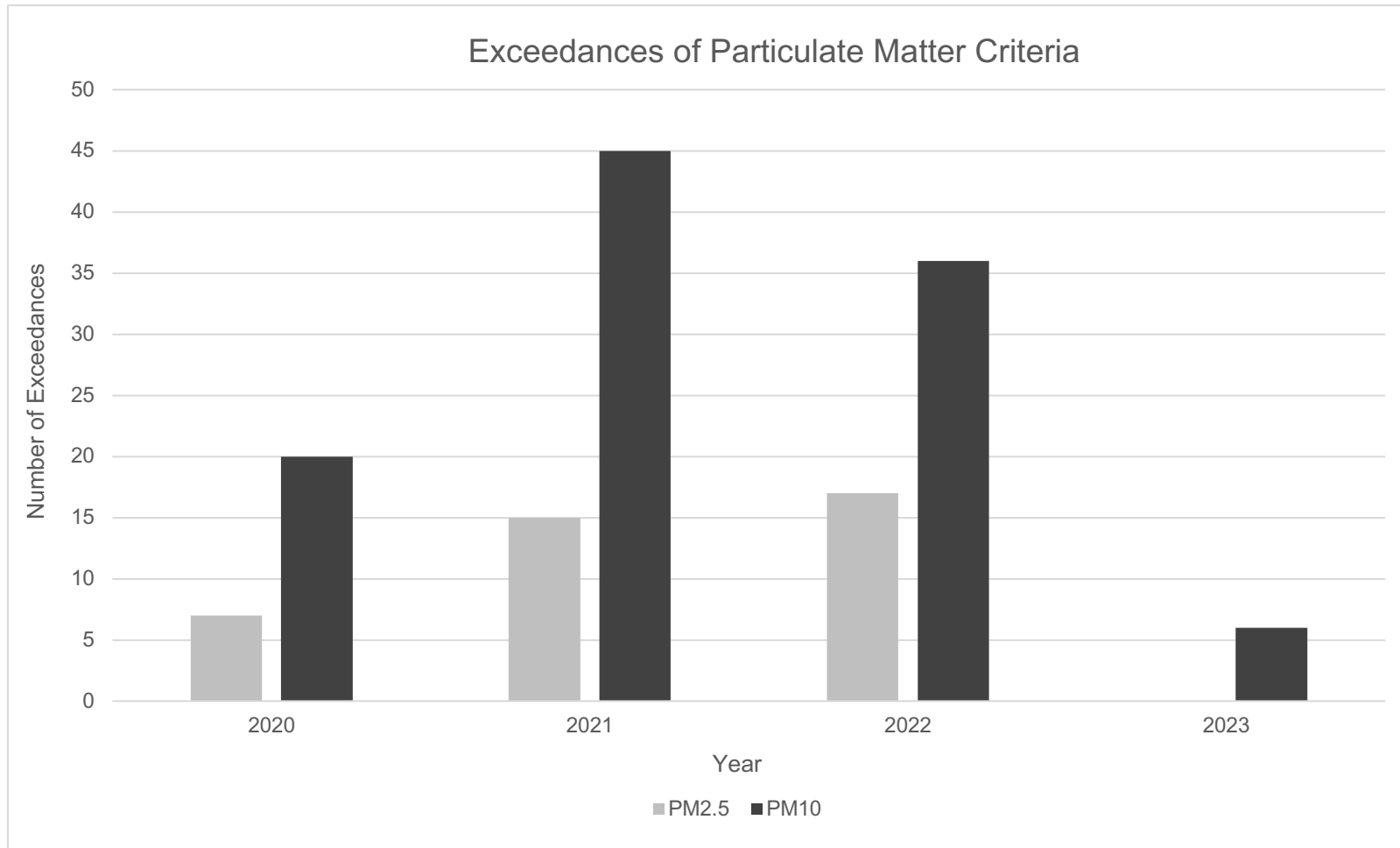
3.1.3.1. PM_{2.5}

No exceedances of the PM_{2.5} criteria were reported during the review period. Recorded levels of PM_{2.5} demonstrate an improvement from the previous review period (May 2021 - November 2022) within which 27 criteria exceedances were identified. The lack of exceedances recorded indicate that PM_{2.5} levels are presently being managed effectively on site.

3.1.3.2. PM₁₀

Six exceedances of the PM₁₀ criteria were reported during the review period. Recorded levels of PM₁₀ demonstrate an improvement from the previous review period (May 2021- November 2022), within which 45 exceedances were recorded. One of the exceedances recorded in October 2023 coincided with a 'fair' (37.8) reading of PM₁₀ at the Liverpool monitoring station and hazard reduction burns in the wider Sydney area. Four of the exceedances identified during the review period were recorded at Air Quality Monitor 03 (AQM03) which is located on the western extent of the Moorebank Precinct West (MPW) Stage 2 footprint and may consequently be the result of construction activities undertaken on MPW Site.

Figure 3-1 Particulate Matter Criteria Exceedances 2020 – 2023



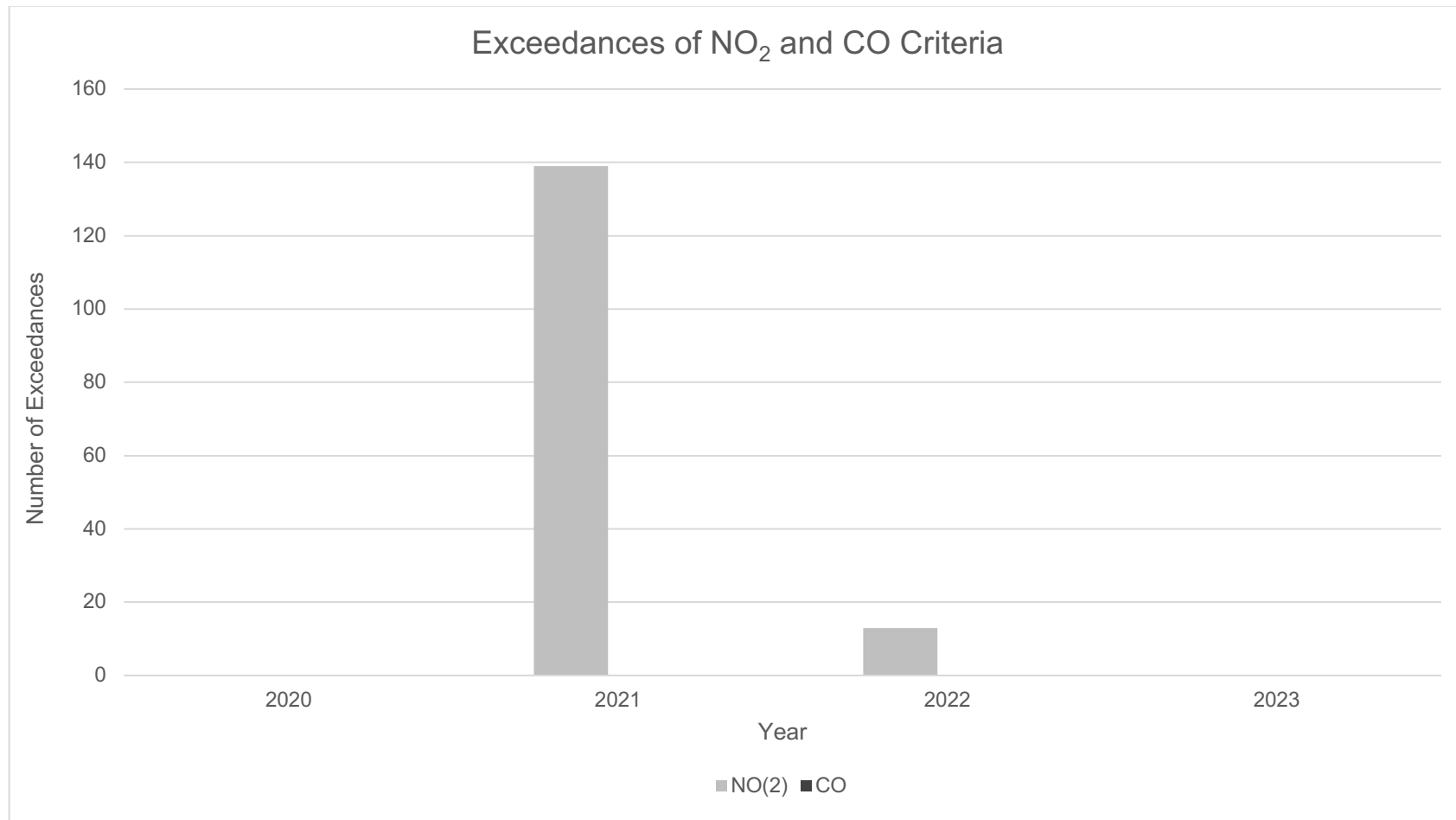
3.1.3.3. NO₂

No exceedances of the NO₂ criteria were reported during the review period. Recorded levels of NO₂ consequently remained consistent with the results of the previous review period (May 2021- November 2022) (Figure 3-2). The stability of these results indicates that levels of NO₂ continue to be managed effectively through implementation of the OAQMP. To support the continued management of NO₂, real time air quality monitoring will continue to be undertaken in 2024 in accordance with the requirements of the OAQMP.

3.1.3.4. CO

No exceedances of the CO criteria were reported during the review period. Recorded levels of CO consequently remained consistent with the results of the previous review period (May 2021- November 2022) (Figure 3-2). The stability of these results indicates that levels of CO continue to be managed effectively through implementation of the OAQMP. To support the continued management of CO, real time air quality monitoring will continue to be undertaken in 2024 in accordance with the requirements of the OAQMP.

Figure 3-2 NO₂ and CO Criteria Exceedances 2020 – 2023



3.2. Water Quality

Water quality monitoring results for the review period are summarised in Table 3-2 below.

Table 3-2 Water quality monitoring results

Development Phase/ Monitoring Type	Approved Limits/ EIS Prediction/ Trigger Levels	Requirement Source	Results	Results Source
Construction Environmental Protection Licence No. 21054 (EPL)	pH: 6.5-8.5 Turbidity:<50mg/L TSS or <25 NTU	EPL L2.4	A total of six discharge events relating to MPE Stage 2 construction activities occurred during the review period.	
			One exceedance of the EPL pH trigger value was recorded relating to MPE Stage 2 construction activities during the review period.	EPL 21054 Monitoring Data (4 June 2022- 3 June 2023) (Aspect Environmental)
			Three exceedances of the EPL turbidity trigger value were recorded relating to MPE Stage 2 construction activities during the review period.	
Operations Stormwater Monitoring	<i>Australian and New Zealand Guidelines for Fresh and Marine Water Quality (2018) (ANZECC Guidelines)</i> <ul style="list-style-type: none">pH: 6.5-8.5	CoC: B40, B43, B44 and B49 Table 4-1 and Table 4-2 Stormwater Infrastructure Operation	One exceedance of the pH trigger level was recorded at one monitoring location during the review period.	Moorebank Logistics Park East Precinct: Autumn Stormwater Network Water Quality Monitoring Data & Reporting (Apical Bushfire and Planning, April 2023)

Development Phase/ Monitoring Type	Approved Limits/ EIS Prediction/ Trigger Levels	Requirement Source	Results	Results Source
	<ul style="list-style-type: none"> • Turbidity: 50 NTU • TSS: 50mg/L • Total phosphorus: 25µg/L • Total Nitrogen: 120µg/L • Kjeldahl Nitrogen: 120µg/L • Dissolved Metals: ANZECC variable • Hydrocarbons: ANZECC variable • PFAS: PFAS NEMP Guidelines variable 	Maintenance Plan (SIOMP)	<p>Two exceedances of the turbidity trigger level were recorded during the review period.</p> <p>One exceedance of the TSS trigger level was recorded during the review period.</p> <p>One exceedance of the phosphorus trigger level was recorded during the review period.</p> <p>Six single exceedances of the nitrogen trigger level were recorded during the review period.</p> <p>Six single exceedances of the Kjeldahl Nitrogen trigger level were recorded during the review period.</p> <p>Two single exceedances of the dissolved metals trigger levels were recorded during the review period.</p> <p>No exceedances of the hydrocarbon trigger levels were recorded during the review period.</p>	Moorebank Logistics Park East Precinct: Autumn Stormwater Network Water Quality Monitoring Data & Reporting (Apical Bushfire and Planning, October 2023)

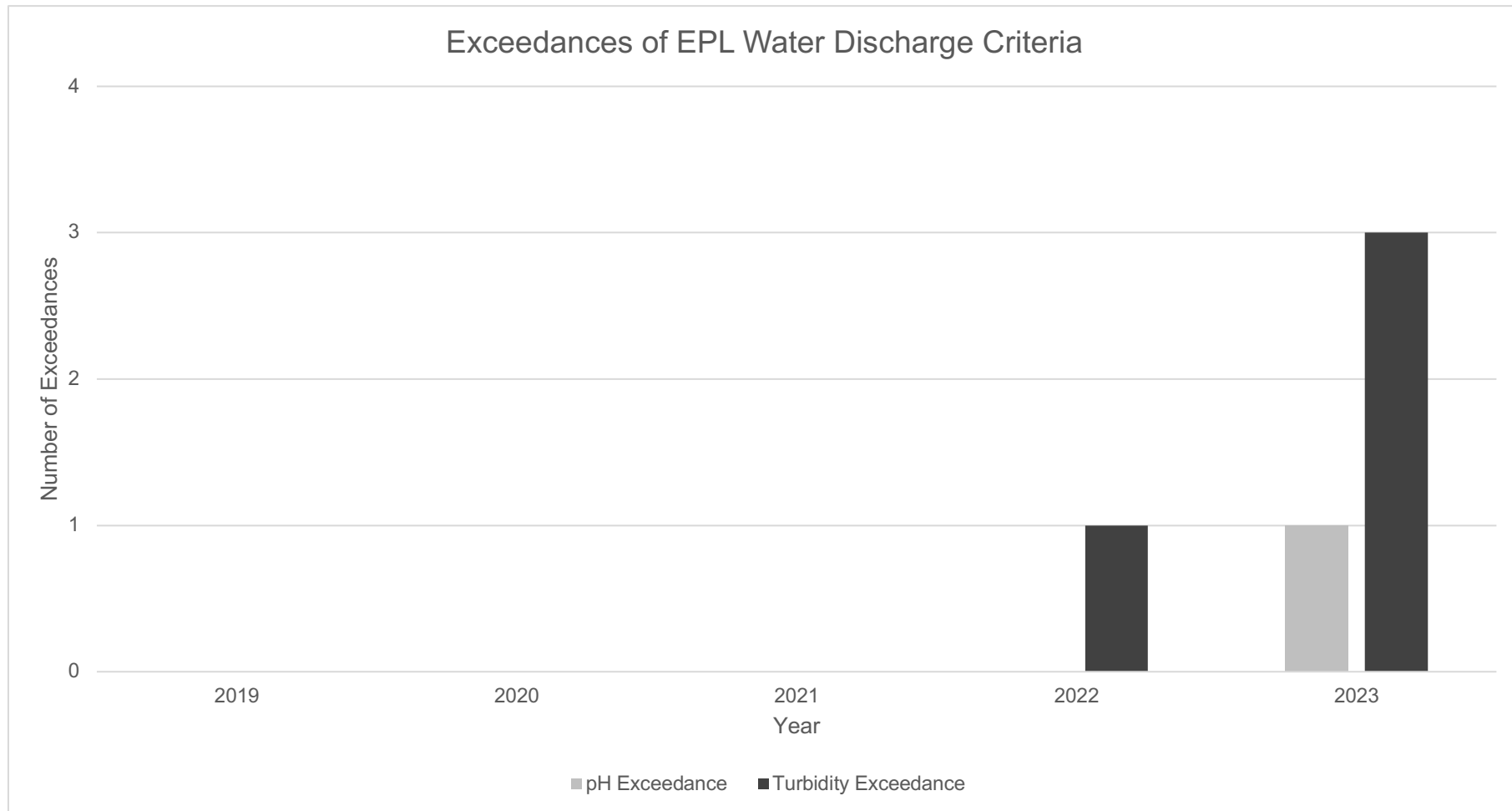
Development Phase/ Monitoring Type	Approved Limits/ EIS Prediction/ Trigger Levels	Requirement Source	Results	Results Source
			No exceedances of the PFAS trigger levels were recorded during the review period.	
Operations Aquatic Ecological and Water Quality Monitoring	Exceedance of ANZECC Guidelines and Liverpool DCP water quality targets: <ul style="list-style-type: none"> • Surface water quality • Sediment monitoring • Aquatic macroinvertebrate • Fish assemblage 	CoC: B106 Table 4-2 Stormwater Infrastructure Operation MPE 2 Baseline Aquatic Ecological Monitoring Report and Biodiversity Monitoring Strategy	Autumn Monitoring (Bio-Analysis, 08/2023): No changes in the indicator variables attributed to the Development. Spring Monitoring (Bio-Analysis, 01/2024): No changes in the indicator variables attributed to the Development.	Moorebank Precinct East Stage 2: Biodiversity Monitoring in Anzac Creek (Autumn 2023 Survey) (08/08/2023, Bio-Analysis) Moorebank Precinct East Stage 2: Biodiversity Monitoring in Anzac Creek (Spring 2023 Survey) (09/01/2024, Bio-Analysis)

3.2.1. EPL Discharge

The Development EPL identifies discharge points for the purpose of monitoring water quality during discharge events. Information regarding EPL discharge monitoring results, including exceedances of discreet criteria that do not result in environmental harm, is provided to the Environmental Protection Agency (EPA) through submission of an Annual Return. The 2023 Annual Return was submitted to the EPA on the 17 August 2023, for the reporting period 4 June 2022 – 3 June 2023. A total of six discharge events relating to MPE Stage 2 construction activities occurred during the review period. One exceedance of the EPL pH trigger value and three exceedances of the EPL turbidity trigger value were recorded during the review period (Figure 3-3).

No further discharges relating to MPE Stage 2 activities were undertaken in 2023. Results from the Annual Return for the period 4 June 2023 – 3 June 2024 will be included in the next Annual Review.

Figure 3-3 EPL Water Discharge Criteria Exceedances 2020 – 2023



3.2.2. Operational Stormwater

Monitoring of operational stormwater on MPE Stage 2 is undertaken in accordance with the requirements of the Baseline Aquatic Ecological Monitoring Report and Biodiversity Monitoring Strategy (Arcadis, June 2018), and the SIOMP (23 January 2023), as required by CoC B43 and B44 of SSD 7628.

Trigger levels – extract the ANZECC WQ guideline reference to what exceedance of a trigger level means. During the review period, monitoring events occurred in both April and October 2023, with recorded results compared to the criteria established by the ANZECC Guidelines. Except for a single sampling location (DP 6), results indicate that pH levels have stabilised within each detention basin during the review period. DP 6 is presently being used to store site harvested water prior to release in the drainage network.

Exceedances of turbidity and total suspended solid criteria during the review period have been identified as a likely consequence of increased nutrient concentrations within the system due to depleted water volumes at monitoring locations (Apical, October 2023). Similarly, the single exceedance of phosphorous criteria during the review period was recorded at a point where water within the detention basin was approximately 3cm deep. Importantly, despite these recorded exceedances against criteria, the presence of algal blooms was not observed.

Monitoring conducted in April 2023 identified that overall nitrogen levels had reduced to below or near the ANZECC criteria, indicating an overall improvement to system health. Though elevated levels of nitrogen were recorded at all monitoring locations, the criteria exceedance at DP 1 in October 2023 was identified as being thirty-six times the ANZECC criteria. These results do not show a trend with that previously recorded and are likely to be the outcome of reduced water levels within the discharge point that produce, or are likely to produce, a concentrating effect on nitrogen.

Marginal increases of dissolved metals (copper and zinc) were recorded at DP 2 during the review period, triggering an exceedance of the ANZECC criteria, which will continue to be monitored.

Limited variance in hydrocarbon levels was identified during the review period, with no criteria exceedances recorded.

No exceedances of PFAS Guideline criteria were recorded during the review period.

Figure 3-4 pH Monitoring Results August 2020 - October 2023

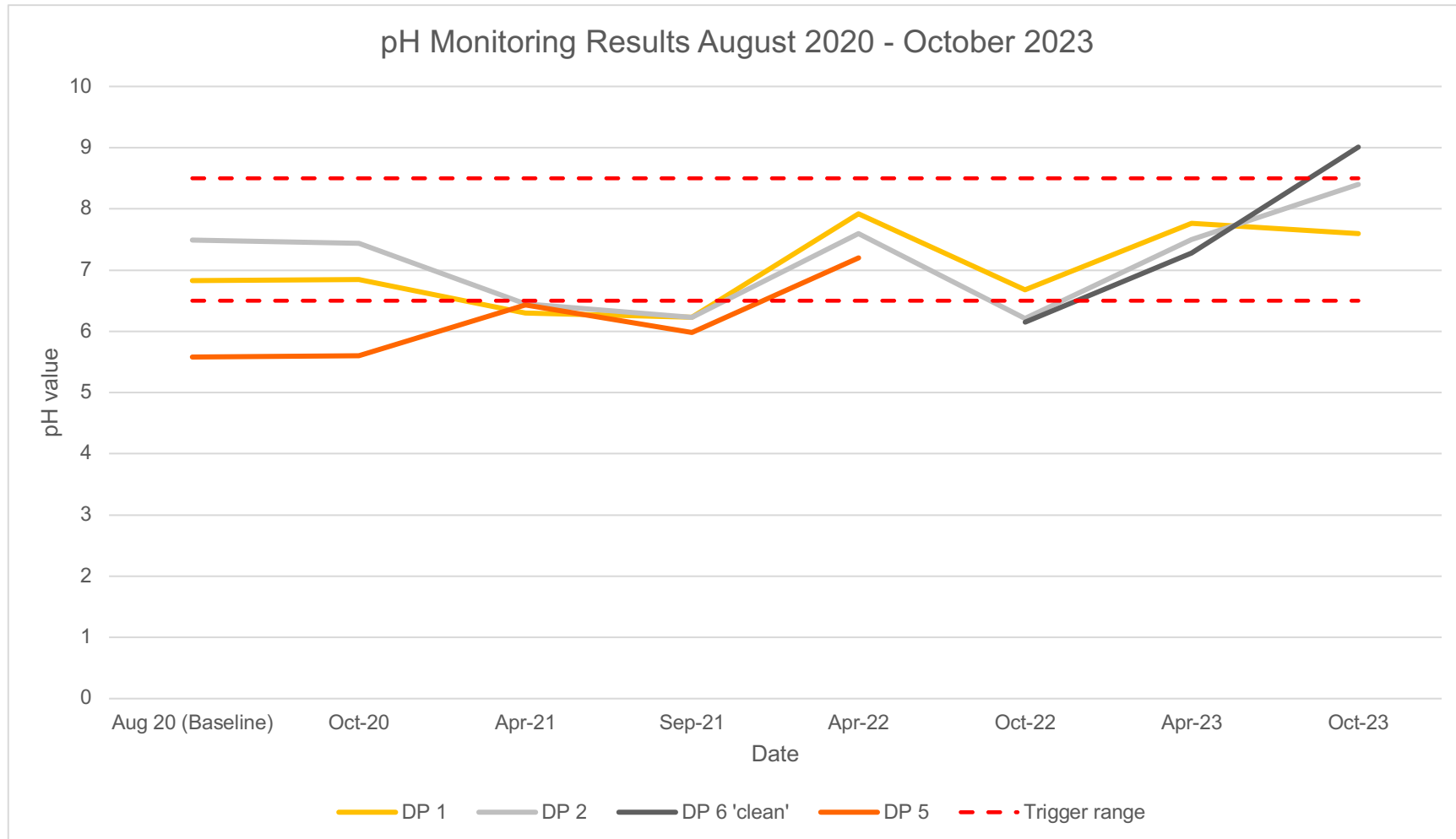


Figure 3-5 TSS Monitoring Results August 2020 - October 2023

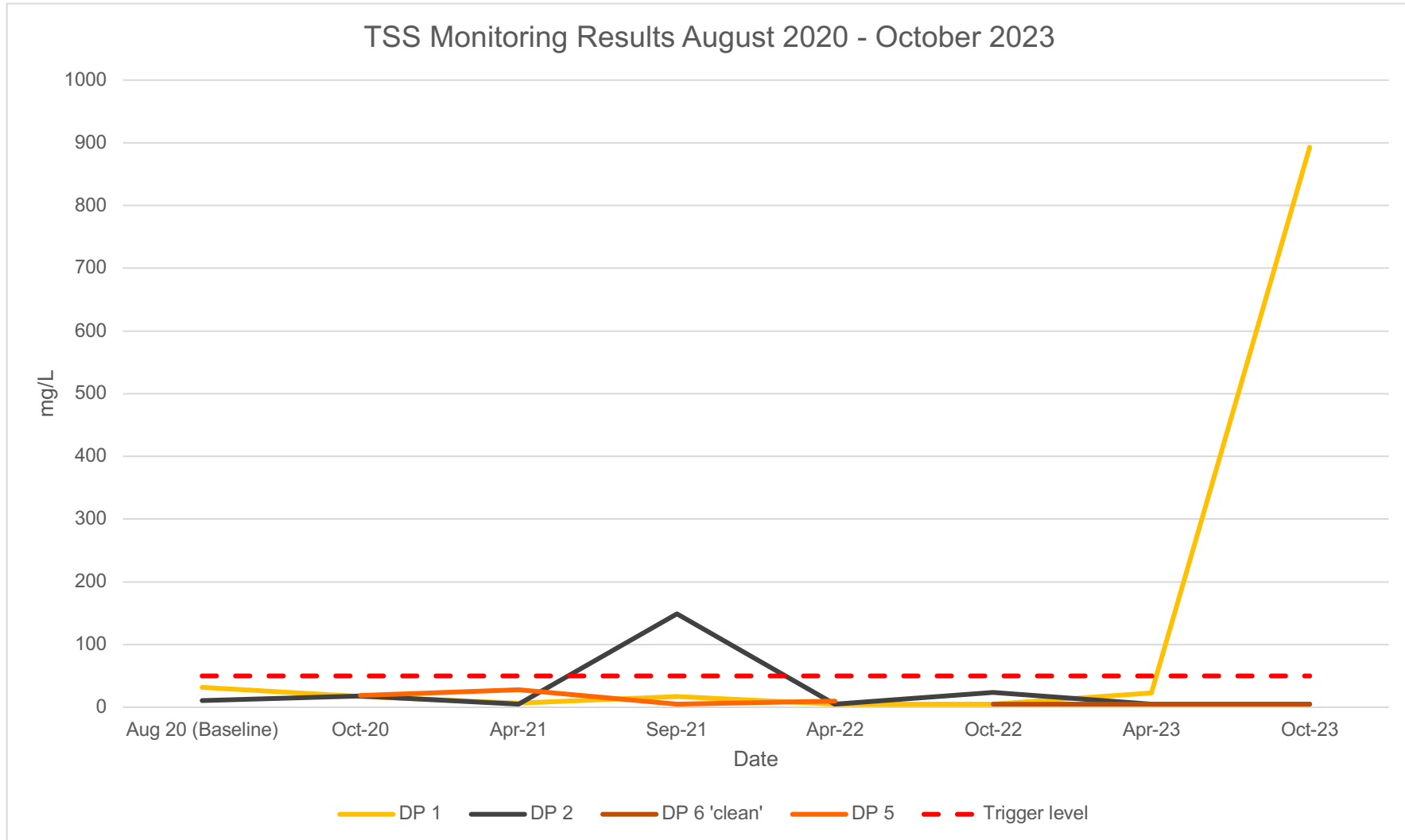


Figure 3-6 Turbidity Monitoring Results August 2020 - October 2023

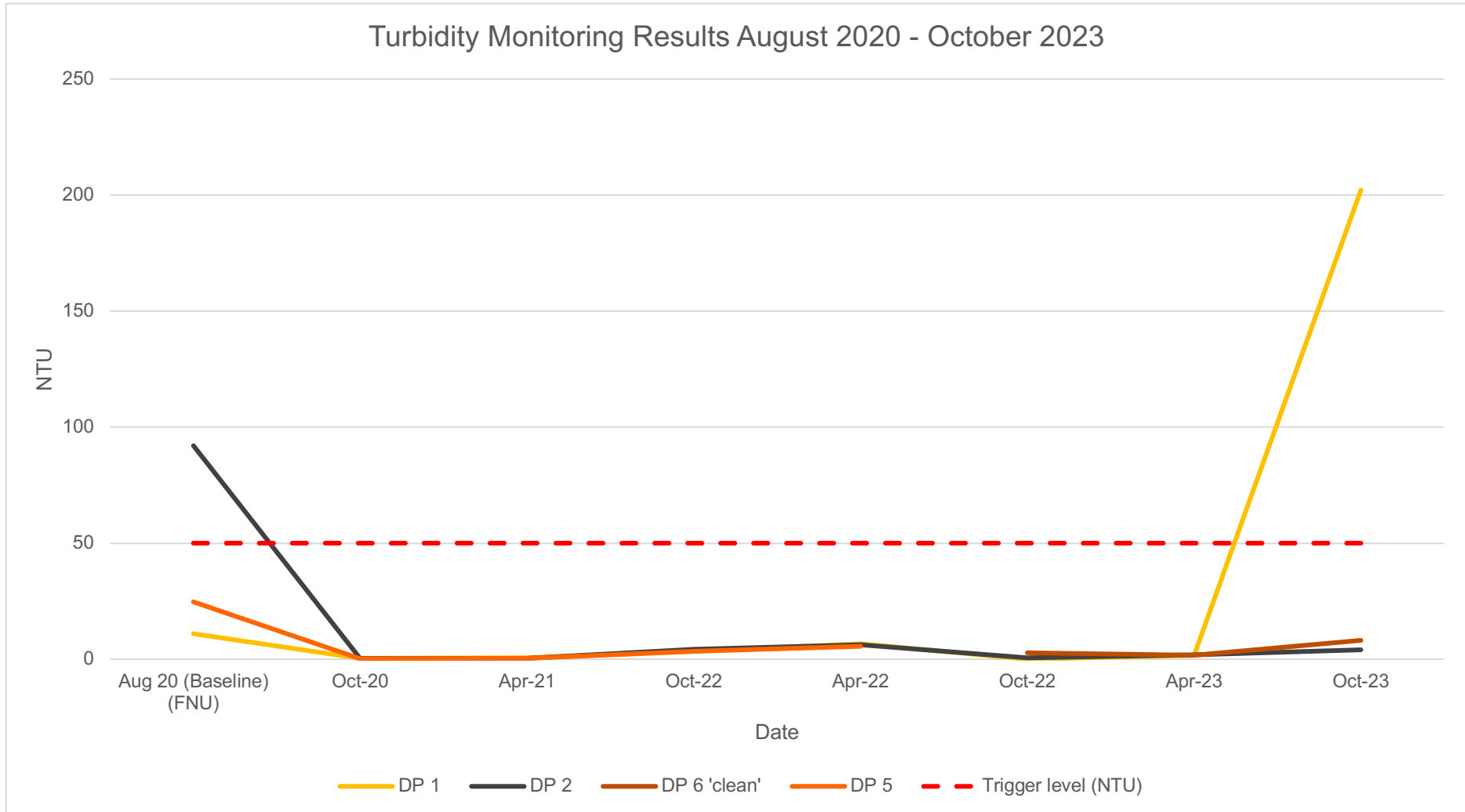


Figure 3-7 Phosphorous Monitoring Results August 2020 - October 2023

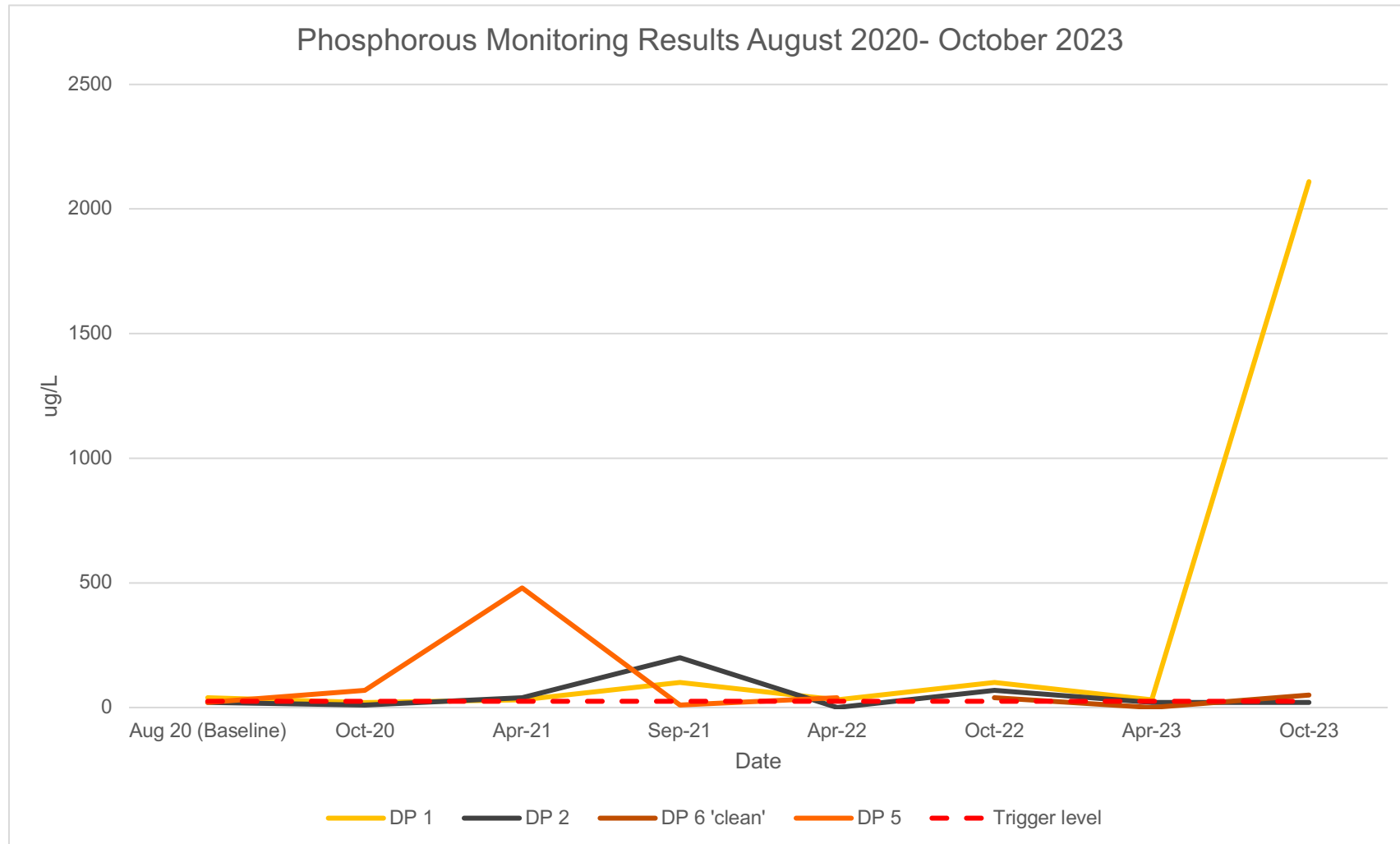


Figure 3-8 Nitrogen Monitoring Results August 2020 - October 2023

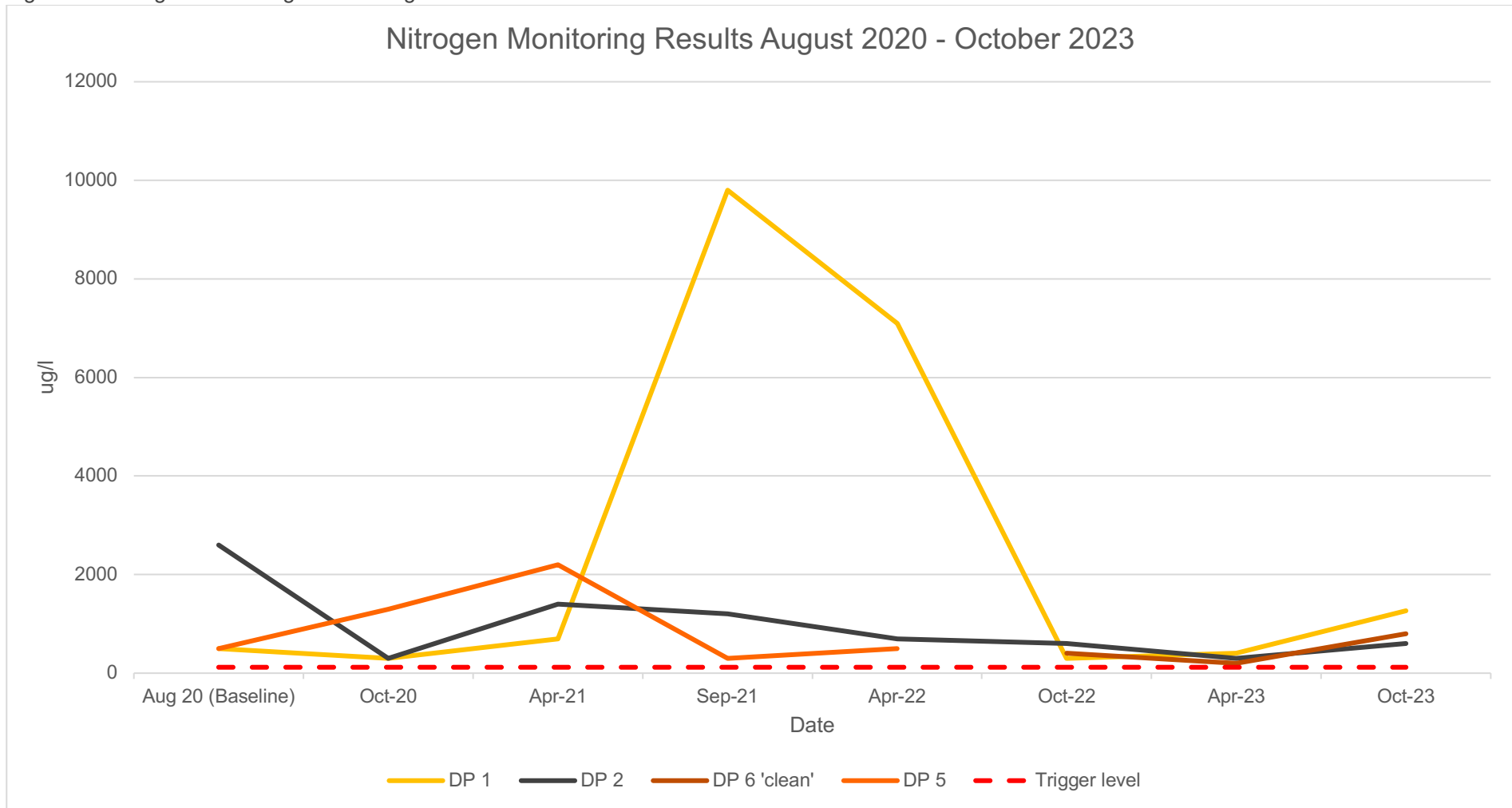


Figure 3-9 Kjeldahl Nitrogen Monitoring Results August 2020 - October 2023

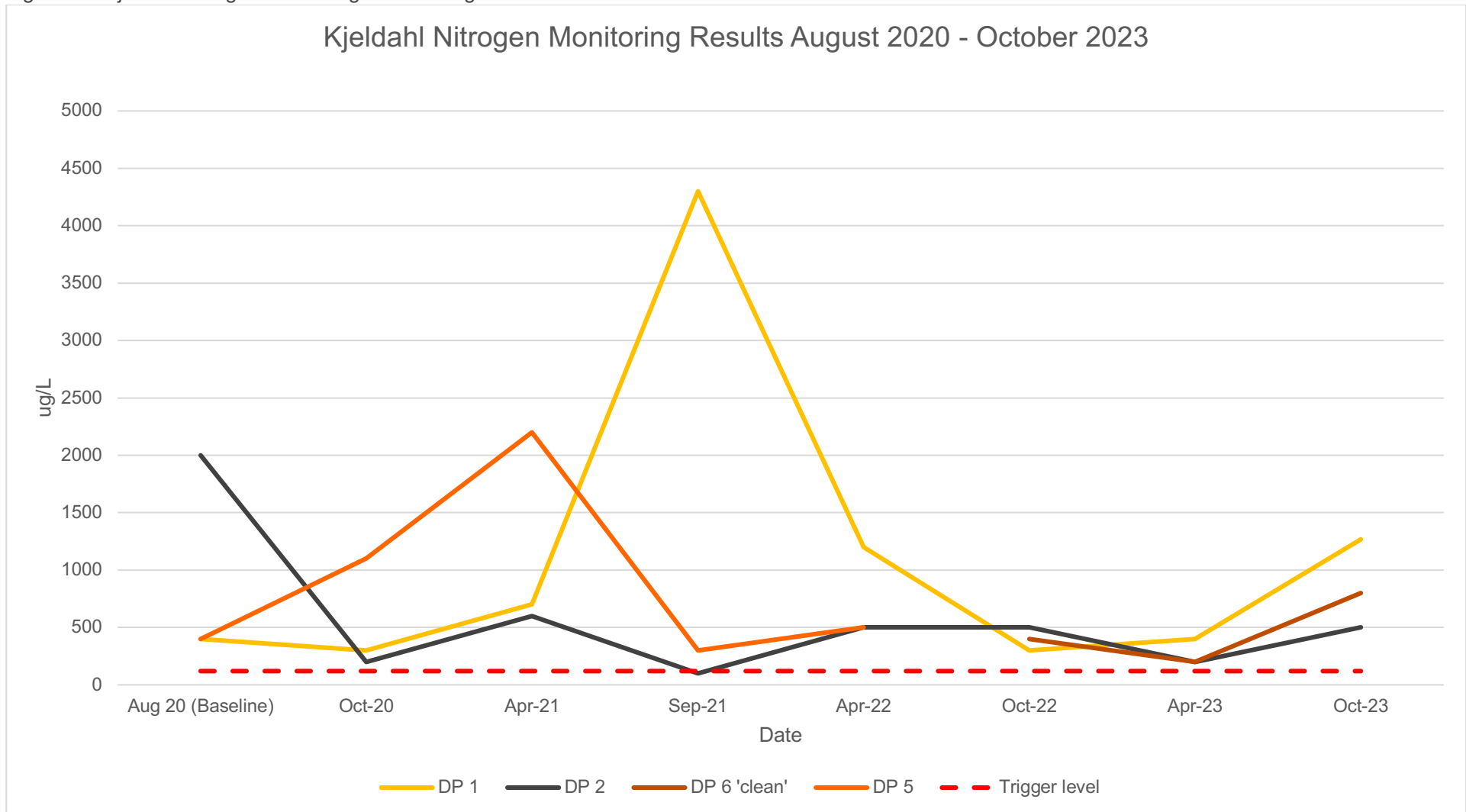


Figure 3-10 Arsenic Monitoring Results August 2020 - October 2023



Figure 3-11 Cadmium Monitoring Results August 2020 - October 2023

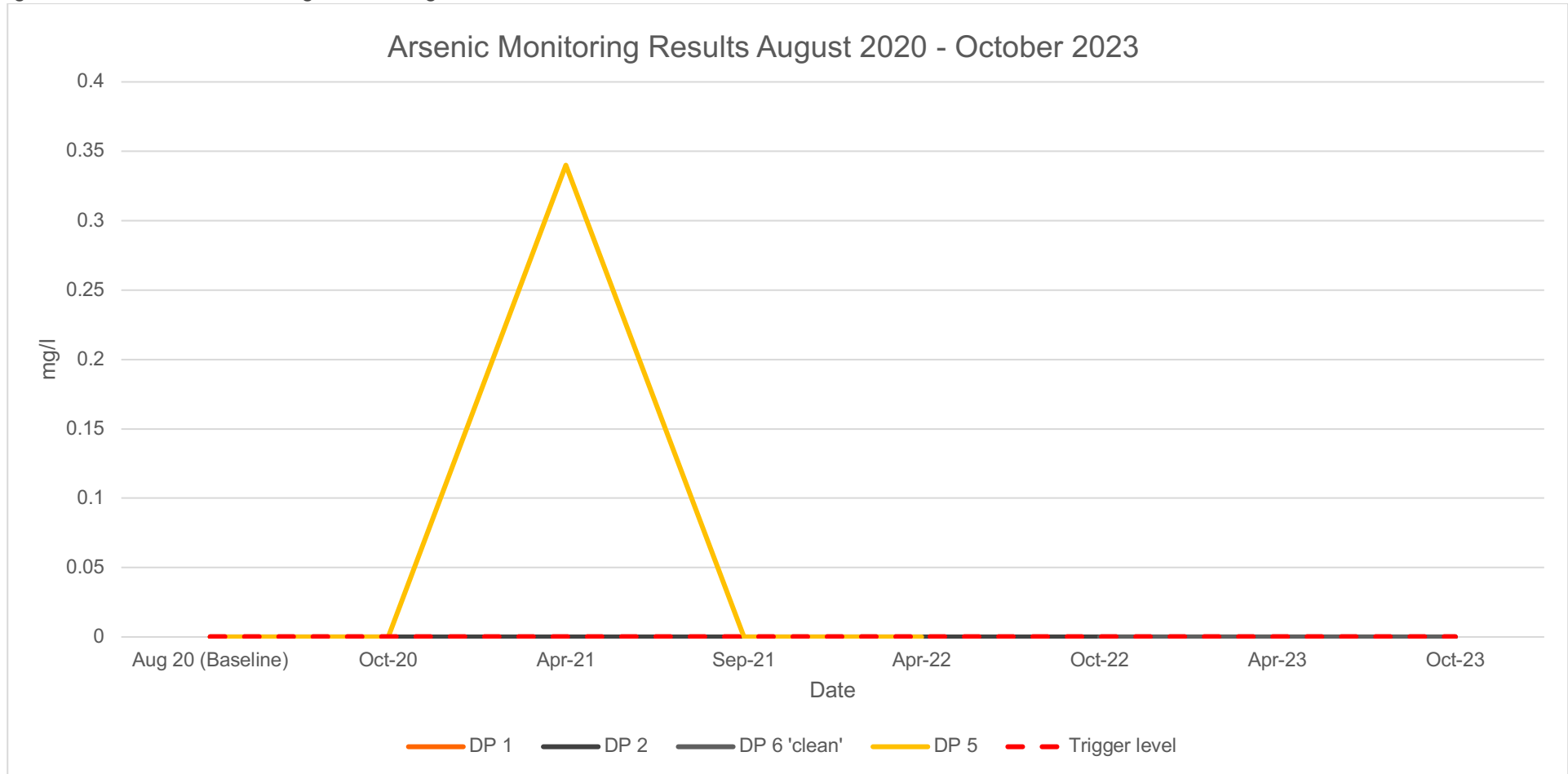


Figure 3-12 Chromium Monitoring Results August 2020 - October 2023

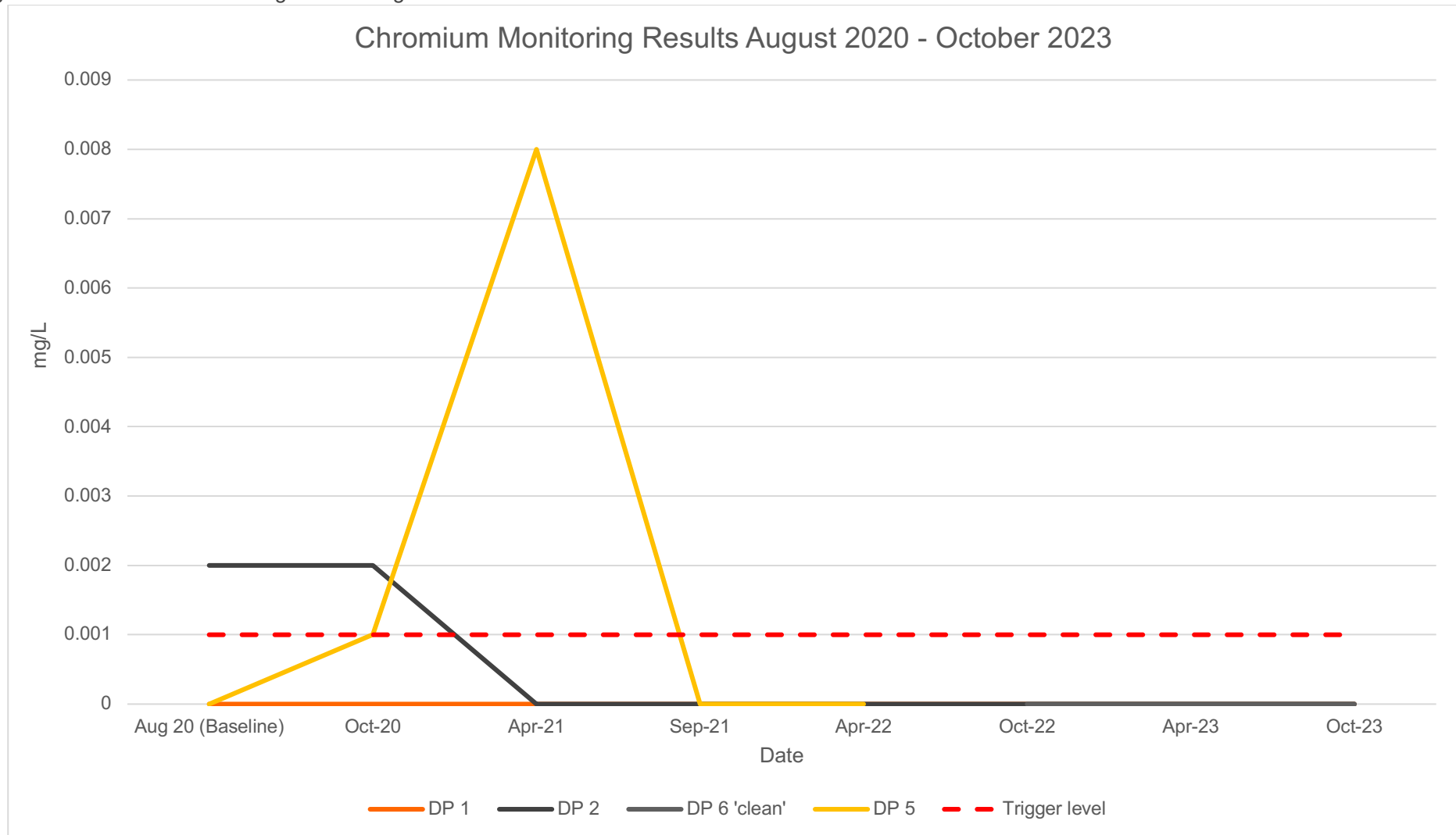


Figure 3-13 Copper Monitoring Results August 2020 - October 2023

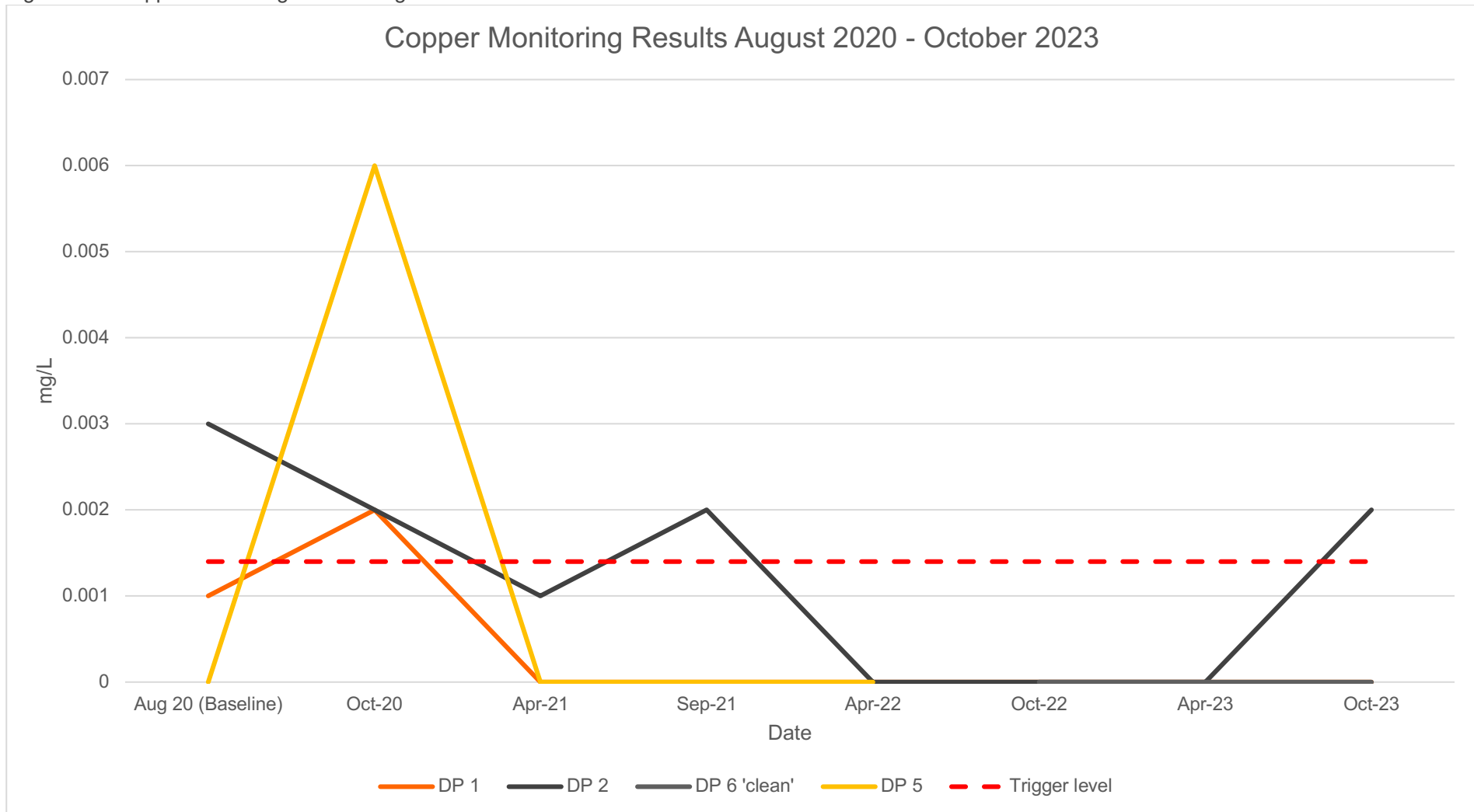


Figure 3-14 Lead Monitoring Results August 2020 - October 2023

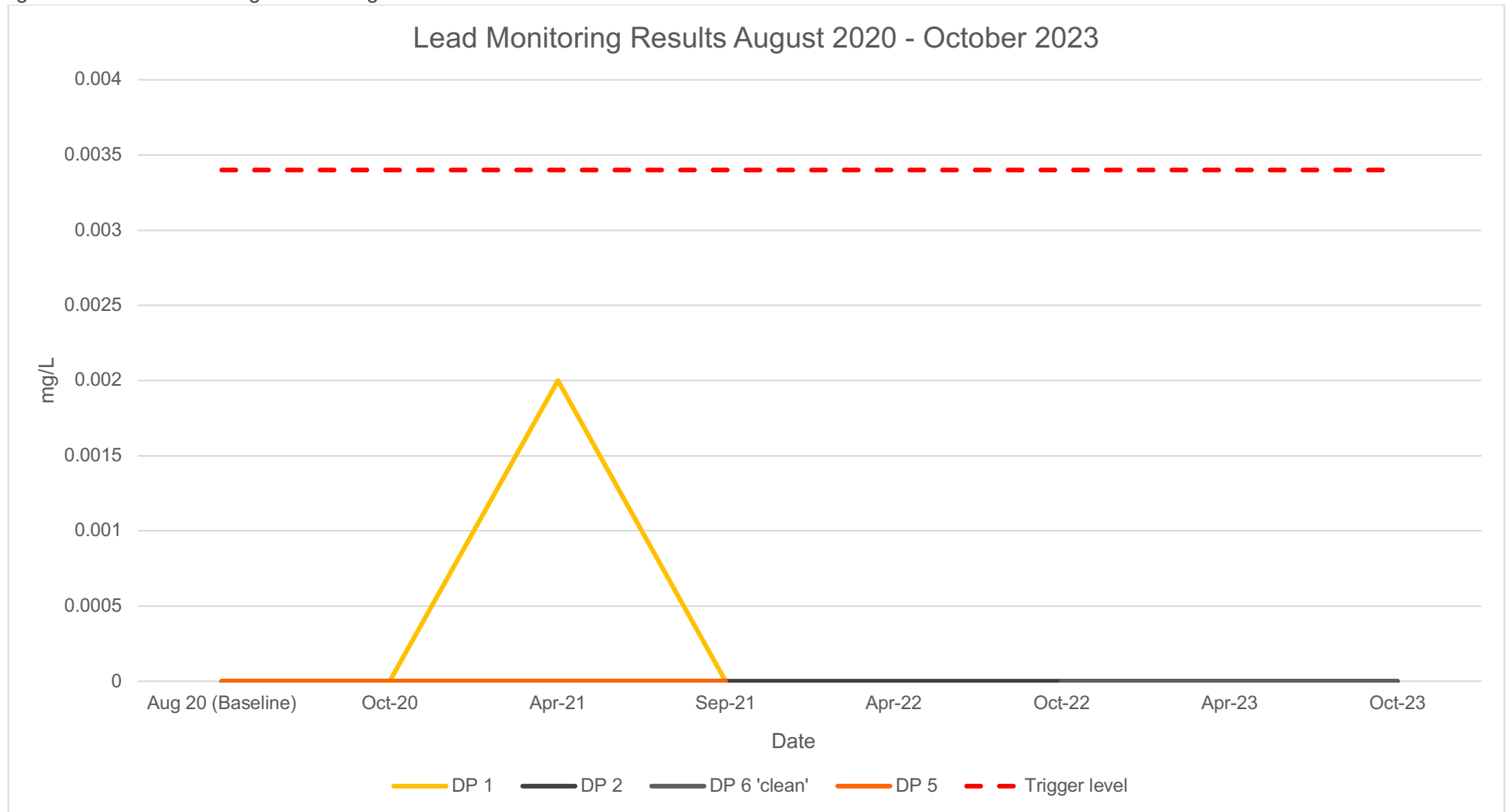


Figure 3-15 Nickel Monitoring Results August 2020 - October 2023

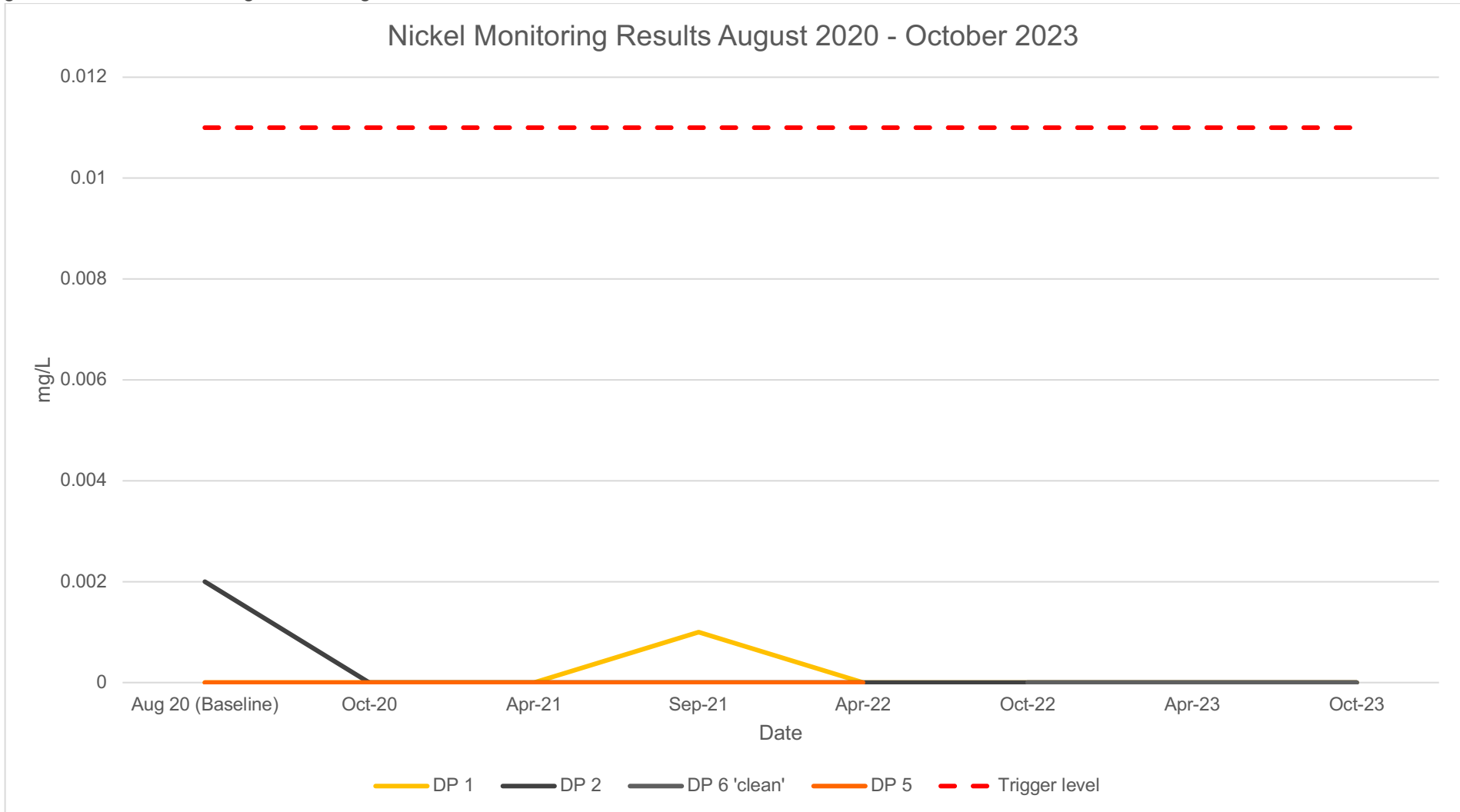


Figure 3-16 Mercury Monitoring Results August 2020 - October 2023

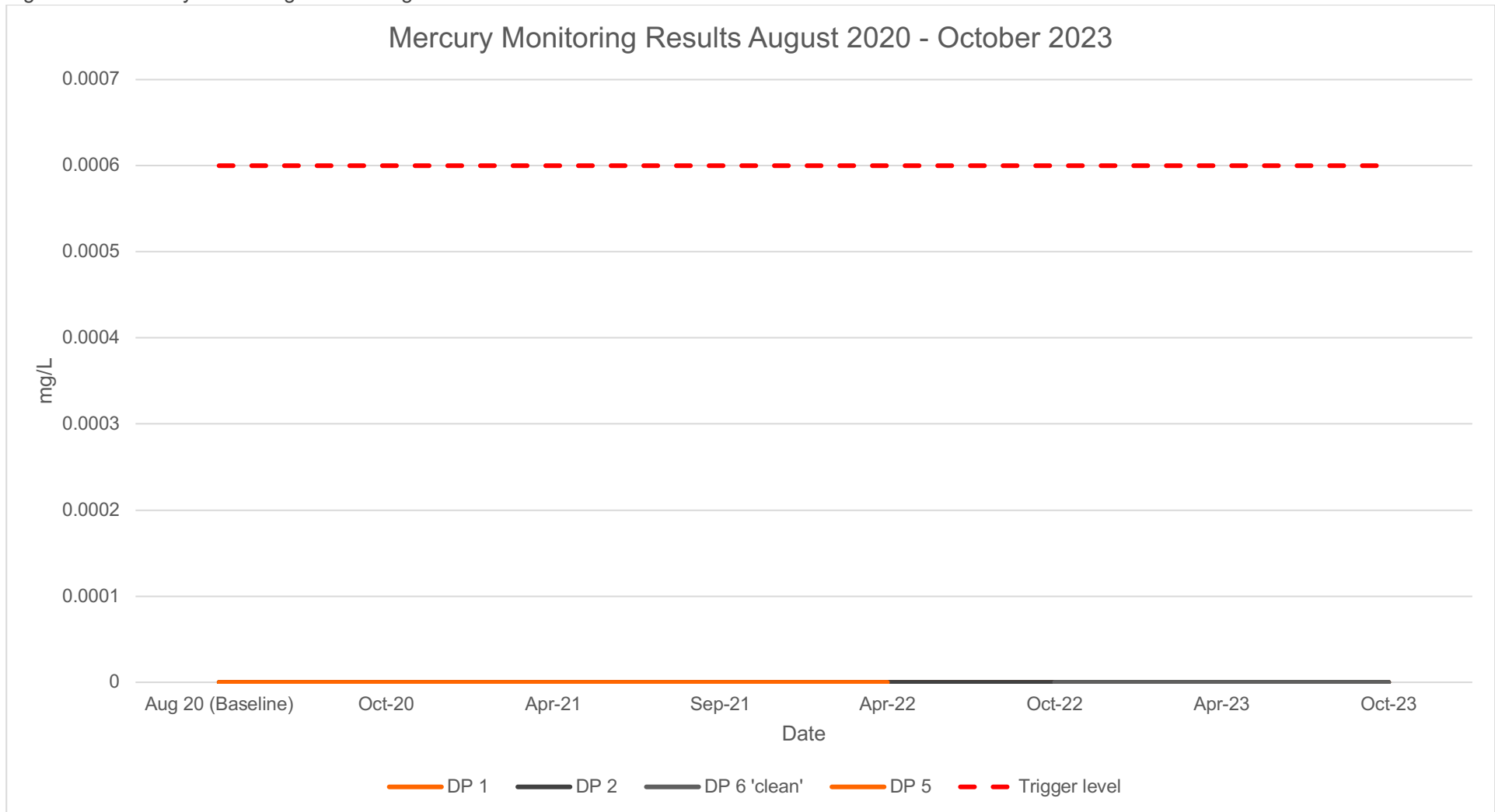


Figure 3-17 Zinc Monitoring Results August 2020 - October 2023

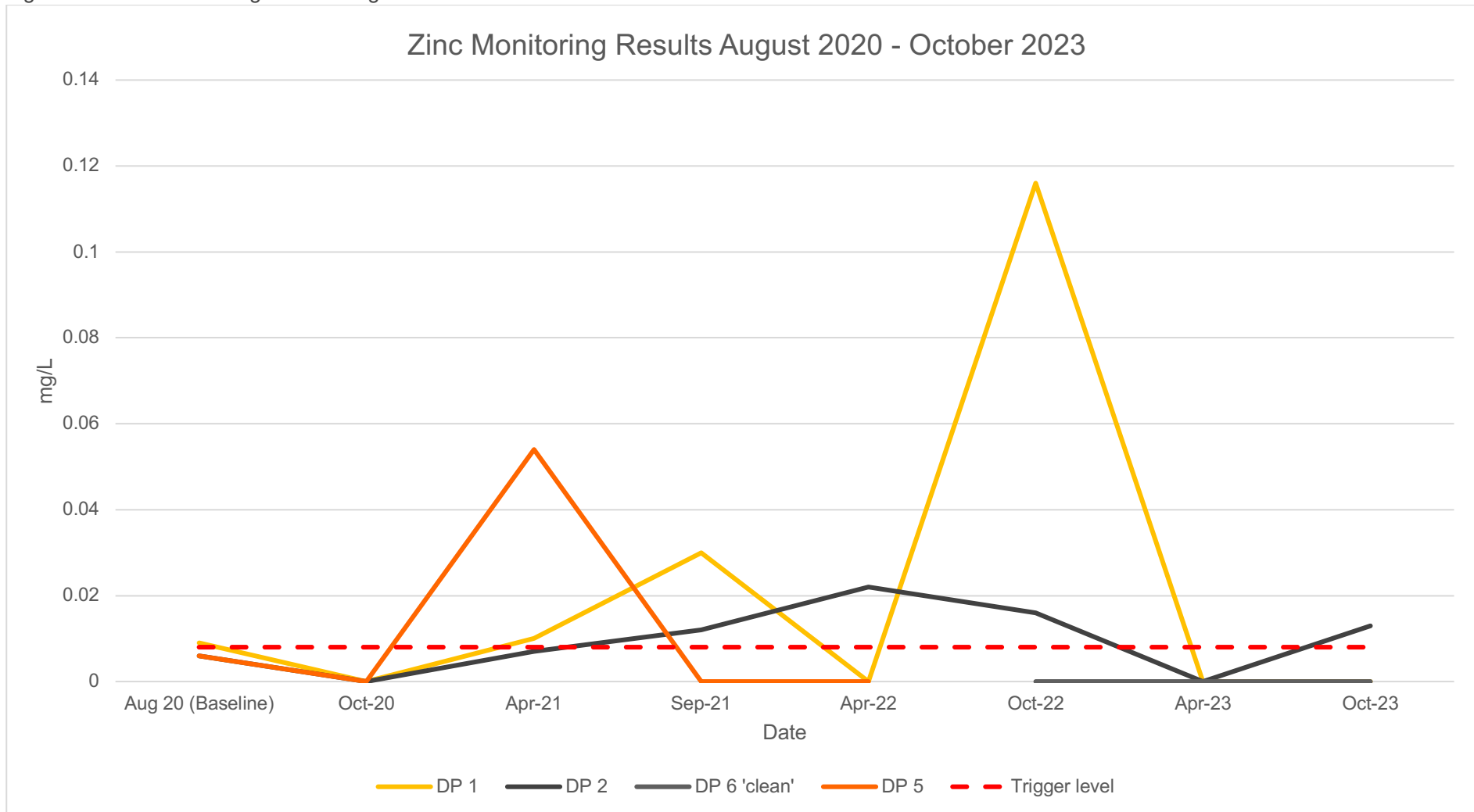


Figure 3-18 PFAS Monitoring Results August 2020 - October 2023

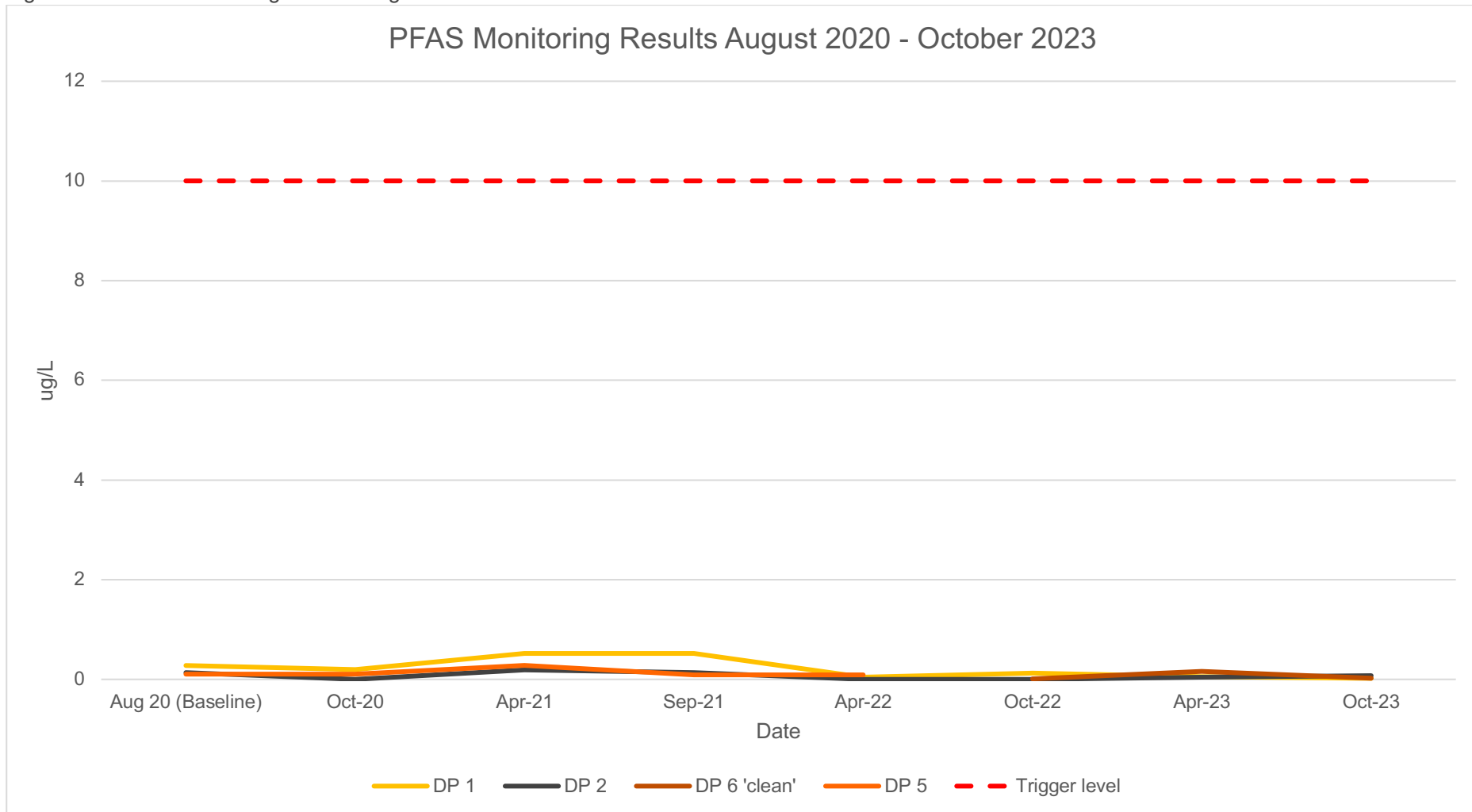
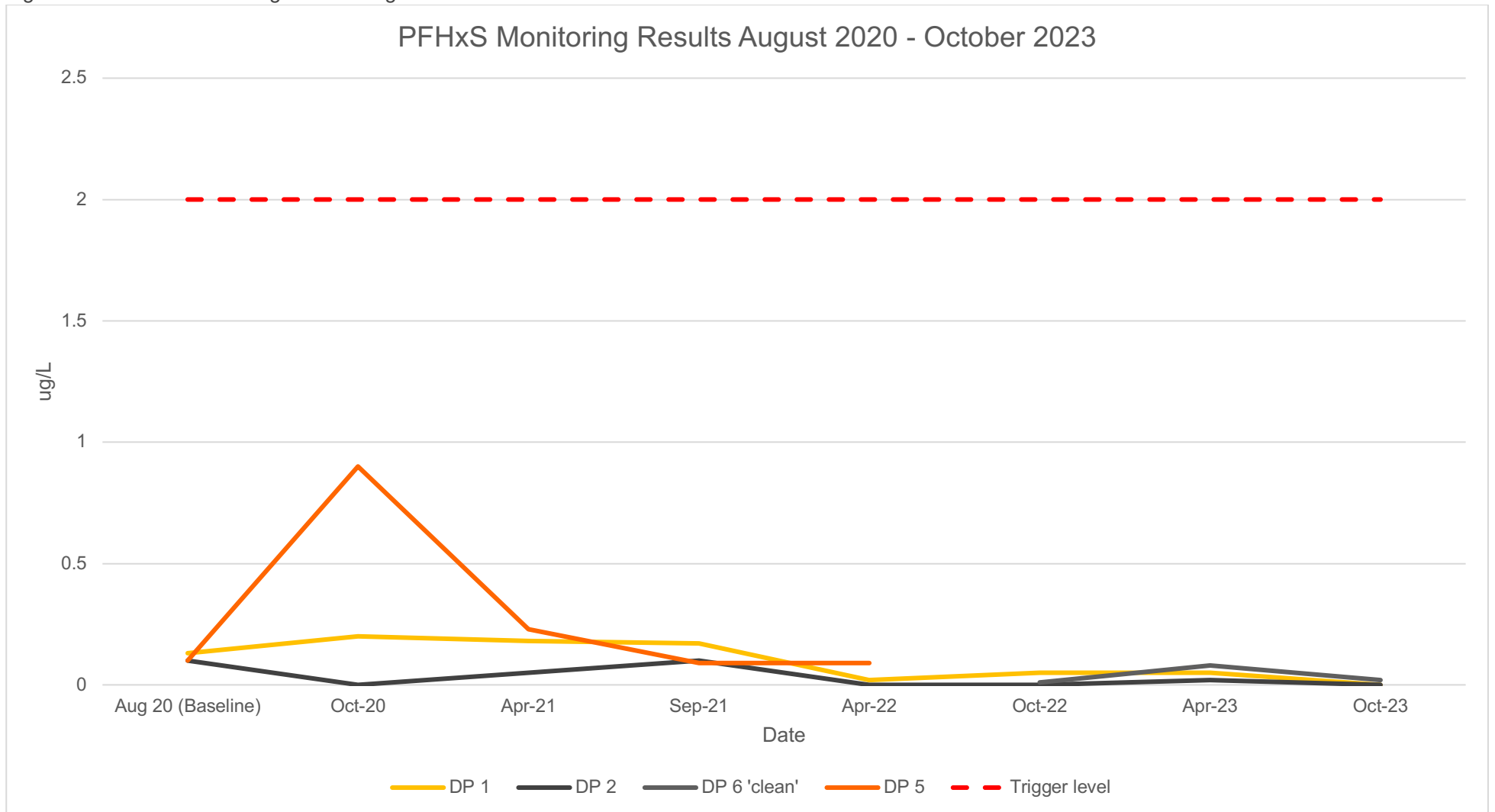


Figure 3-19 PFHxS Monitoring Results August 2020 - October 2023



3.2.3. Aquatic Ecological and Water Quality Monitoring

Results during the 2023 review period demonstrated no evidence of changes in the indicator variables (Bio-Analysis, April 2023 and October 2023) including:

- bed and bank stability
- surface water and sediment quality
- assemblages of aquatic macroinvertebrates and fish.

Aquatic Ecological and Water Quality Monitoring during the review period has continued to be undertaken in accordance with the Baseline Aquatic Ecological Monitoring Program (Biosis, 2018). This monitoring is intended to assist with determining whether any change in stream health or water quality is occurring as a result of the MPE Development.

3.3. Noise and Vibration

Noise and vibration monitoring results for the review period are summarised in Table 3-3.

Table 3-3 Noise and vibration monitoring results

Development Phase/ Monitoring Type	Approved Limits/ EIS Prediction/ Trigger Levels	Requirement Source	Results	Results Source
Construction Attended Noise Monitoring	Noise Management Levels (NMLs) (Interim Construction Noise Guideline)	<p>Section 4.1.2 of the Construction Noise and Vibration Management Plan (CNVMP)</p> <p>To be undertaken:</p> <ul style="list-style-type: none"> In response to a complaint; Where Out of Hours Works (OOHW) are approved, and monitoring is required; and During Extended Hours Works (EHW). 	<p>No noise complaints relevant to MPE Stage 2 works triggering the requirement for attended noise monitoring were received during the review period.</p> <p>Attended noise monitoring was triggered for one of the OOHW within the review period. Measured noise levels ranged between 50.3 - 55.2 $L_{eq(15min),dB(A)}$.</p> <p>No EHW were undertaken during the review period.</p>	<p>Moorebank Intermodal Complaints Register</p> <p>The following OOHW application:</p> <ul style="list-style-type: none"> #054 (BMD, 18/04/2023)
Construction Attended Noise Verification Monitoring	<p>Predicted Noise Limits:</p> <ul style="list-style-type: none"> 56 – 75 $L_{eq(15min),dB(A)}$ 	CNVMP Appendix D: Construction Noise and Vibration Impact Statement Helicopter Installation Works	Measured noise levels were less than that predicted and ranged between 49 – 60 $L_{eq(15min),dB(A)}$	Noise Measurements of Outside of Hours Helicopter Lifting Works (Renzo Tonin & Associates, 12 July 2023)

Construction	NA	CoC B64 Section 4.1.3 of the CNVMP	Continuous noise monitoring continued to be undertaken throughout the review period. These results are reviewed in instances where complaints are received to identify development or background sources.	
Construction	NMLs	Section 4.1.4 of the CNVMP May be undertaken: <ul style="list-style-type: none"> In response to a vibration complaint Where works are occurring near or adjacent to retained heritage structures As monthly attended vibration monitoring. 	No vibration complaints triggering the requirement for vibration monitoring were received during the review period. No works were undertaken within 100m of retained heritage structures during the review period. No attended vibration monitoring was required during the review period.	Moorebank Intermodal Complaints Register
Operation	NMLs	B80 and ONVMP Table 4.1 To be undertaken upon receipt of a noise complaint.	No attended monitoring following receipt of a complaint was undertaken during the review period. Complaints received during the review period related to noise were determined to not be attributable to operational activities on the Development.	Annual Noise Review- April 2022 to April 2023 (Renzo Tonin & Associates, 6 July 2023)
Operation	NA	ONVMP Section 4.1.4	Operational vibration monitoring has not been required during the review period.	NA

Vibration Monitoring

No complaints relating to vibration have been received.

3.3.1. Construction Attended Noise Monitoring

No noise complaints or extended hours works triggered the requirement for attended noise monitoring for construction during the review period. Attended noise monitoring was undertaken for one OOHW approval for works undertaken in May 2023. The results of the attended monitoring indicated that noise levels ranged between 50.3 - 55.2 $L_{eq(15min),dB(A)}$. In the absence of train activity, measured noise was approximately 42 $L_{eq(15min),dB(A)}$. On further review, the monitoring results were dominated by local road and neighbourhood noise, with the only construction related noise audible being one reverse alarm occurring for a short period.

3.3.2. Construction Attended Verification Noise Monitoring

One instance of attended verification noise monitoring required during the review period for helicopter installation works. The attended monitoring was undertaken as required by Appendix D of the CNVMP. Results of the monitoring indicated that measured noise levels were less than that predicted and ranged between 49 – 60 $L_{eq(15min),dB(A)}$.

3.4. Traffic

Traffic monitoring across MPE Stage 2 activities is captured within Biannual Trip Origin Destination Reports (BTODR). The BTODR addresses the combined traffic activity of both the MPE Stage 1 and MPE Stage 2 developments. The results of the two BTODRs undertaken during the review period are summarised in Table 3-4 below.

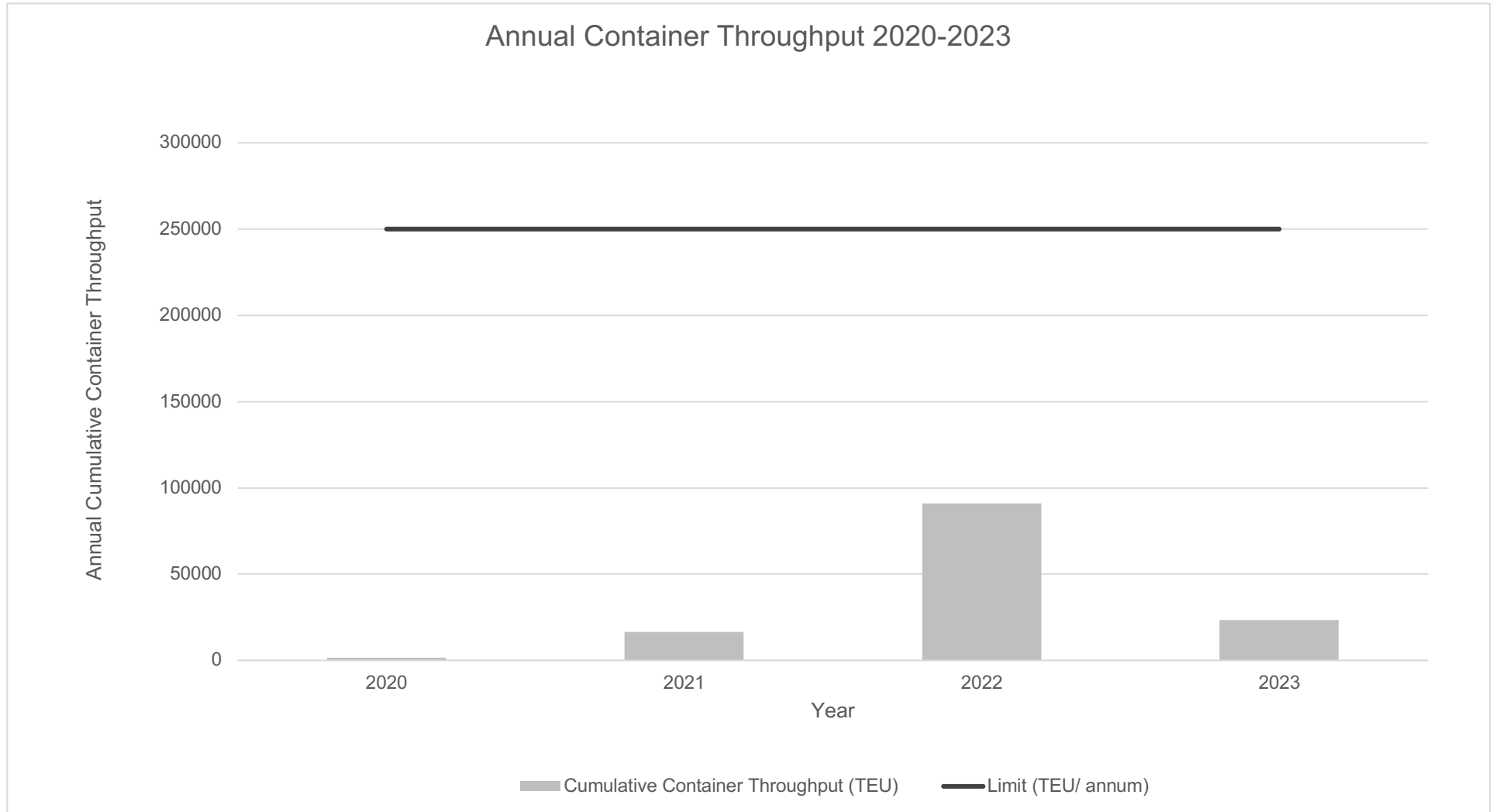
Table 3-4 BTODR 2023 results

Monitoring Type	Limits	Requirement Source	Results	Results Source
Container Throughput	250,000 TEU/ annum	CoC A8	23,471 TEU	Biannual Trip Origin Destination Report: 01 November 2022 – 30 April 2023 (Ason Group, 09/08/2023) (Period 6 Report)
Traffic Volume	<p>Light Vehicles (LV): 4,073/day</p> <p>Heavy Vehicles (HV): 1,234/ day</p>	<p>MPE Stage 1 EIS (Rev 2, Hyder, May 2015)</p> <p>MPE Stage 2 EIS (Rev 05, Arcadis, December 2016)</p>	<p>Report Period 6:</p> <ul style="list-style-type: none"> • LV: 2,092 • HV: 887 <p>Report Period 7:</p> <ul style="list-style-type: none"> • LV: 1,791 • HV: 706 	Biannual Trip Origin Destination Report: 01 May 2023 – 31 October 2023 (Ason Group, 26/02/2024)(Period 7 Report)

3.4.1. Container Throughput

The recorded container throughput was 23,471 TEU for the review period, a decline from the amount recorded in the 2022 review period (90,881 TEU). However, recorded results have continued to remain under the 250,000 TEU/ annum threshold. This reduced container throughput is, in part, attributable to the commissioning of cranes throughout the 2023 report period.

Figure 3-20 Annual Container Throughput 2020-2023



3.4.2. Traffic Volume

HV volume has generally increased from the previous review period, although shows variability between BTODR report periods (BTODR Period 6 Report, Ason 2023 and BTODR Period 7 Report, Ason 2024). While TEU throughput is identified as decreasing over this same review period, it has been identified that this is, in part, attributable to the commissioning of cranes throughout the 2023 report period. CoC G10 of SSD 6766 permits the transfer of containers by truck where there is planned track maintenance, or where freight terminal access is not otherwise available.

LV traffic volume during the 2034 review period has increased slightly from the volume recorded by the 2022 Annual Review, although continues to remain under the 4,073/day criteria. HV and LV movements recorded in the review period do not reflect relevant EIS/RtS predictions as MPE operations have only partially commenced. Traffic volumes are not yet representative of a fully operational precinct.

Figure 3-21 Daily average of the heavy traffic volume

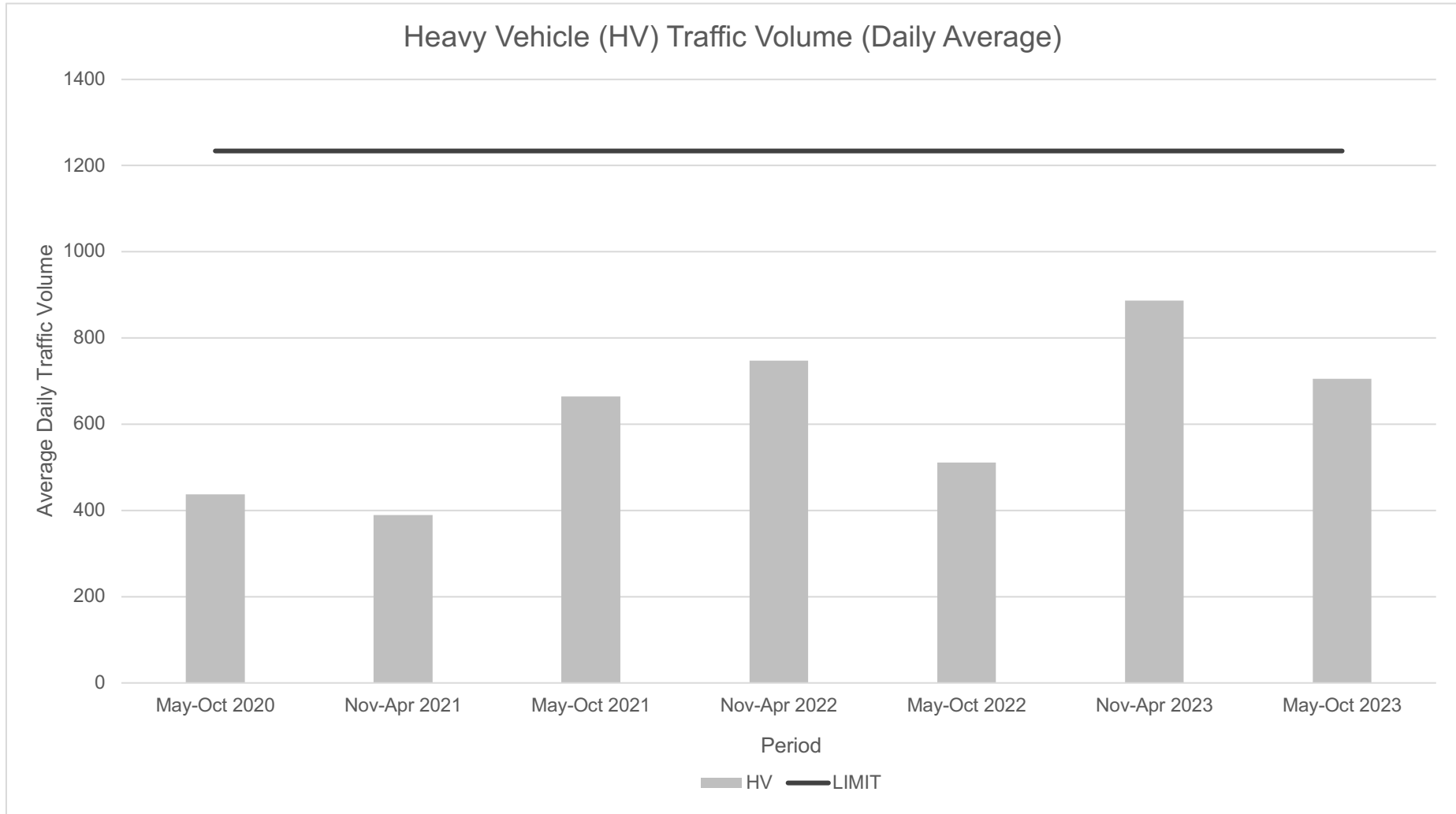
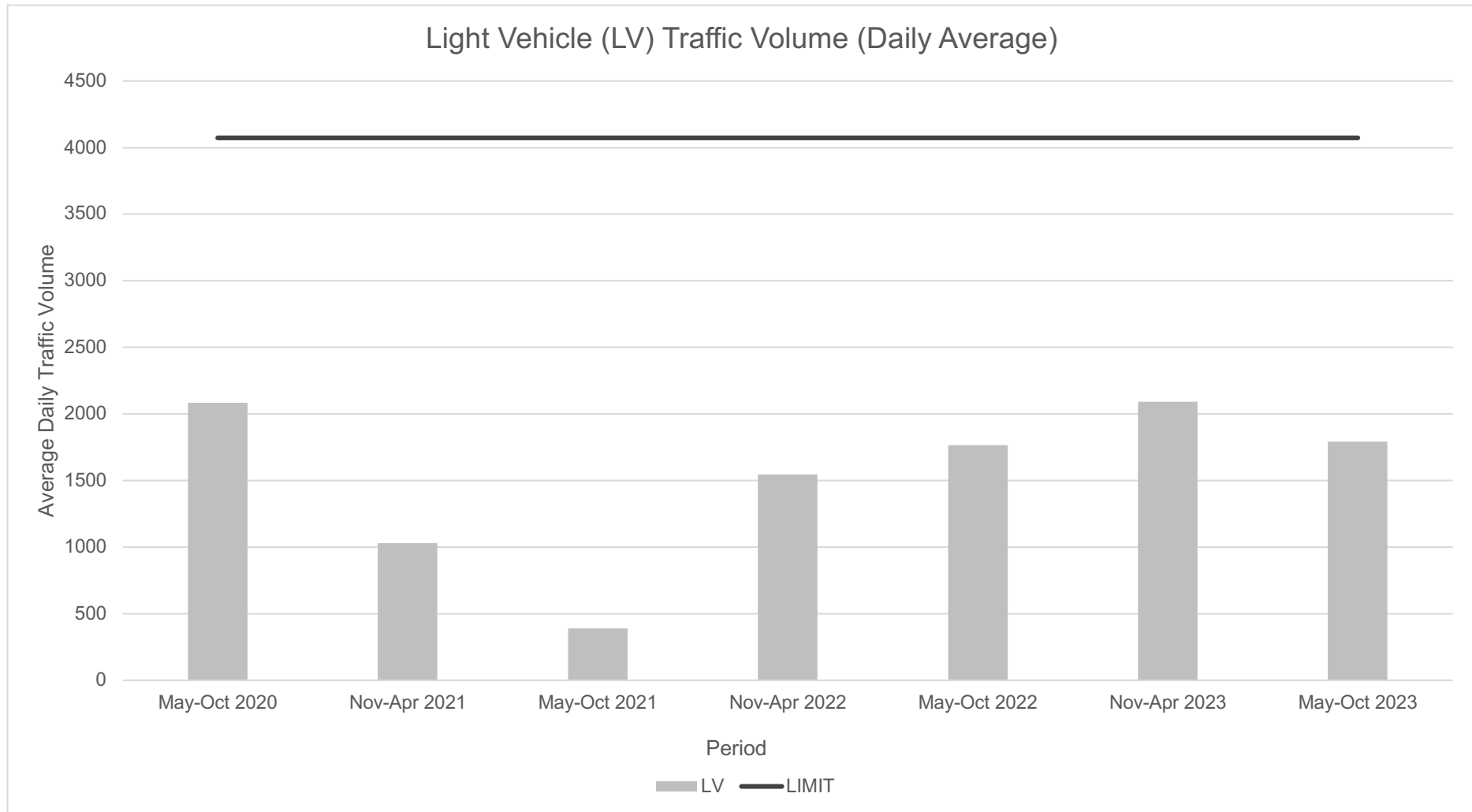


Figure 3-22 Daily average of the light traffic volume



3.5. Biodiversity

Biodiversity monitoring results for the review period are summarised in Table 3-5 below.

Table 3-5 Biodiversity monitoring results

Monitoring Type	Limits	Requirement Source	Results	Results Source
Weed and Feral Animal Monitoring	NA	CoC B127	Weed cover across the MPE operational facility was generally low throughout the monitoring year. Four feral animal species were identified during the reporting period: brown hare, domestic cat, red fox, black rat.	Moorebank Precinct East-Operational Facility: Annual Flora and Fauna Monitoring Report (Arcadis, Revision B, 11 August 2023)
Riparian Rehabilitation and Management	Riparian Vegetation Management Plan – Key Performance Indicators (Hyder, 2015)	CoC B110(i)(v)	The average weed cover for the entire management site was 24.3%.	The Annual Flora and Fauna Monitoring Report for the period May 2023-May 2024 has not yet been finalised. Outcomes of this monitoring report will be included in the 2024 Annual Review.
Nest Box Monitoring	NA	B108(a) and (b)	214 nest boxes were located during the monitoring period. The native species nest box utilization was 48%. The invasive species nest box utilization was 5%. Eleven nest boxes were identified as damaged and in poor condition.	Moorebank Logistics Park- Spring Nest Box Monitoring 2023 (Arcadis, 15 May 2024)

3.5.1. Weed and Feral Animal Monitoring

Weed monitoring was conducted on a bi-monthly basis during the 2022/2023 review period. As of May 2023, all Priority weeds were removed with the exception of Fireweed which was identified as requiring ongoing control to eradicate. Weed coverage across the MPE operational facility was described as being generally low through the monitoring year. Minor changes in weed cover and exotic species diversity were observed in landscaping areas around warehousing units, however ongoing, periodic weed control works were observed to be sufficient in maintaining a low weed cover and promoting an increase in the cover of native species. To further assist with achieving and maintaining low weed cover across the MPE operational site, it was recommended that weed growth continue to be suppressed through a combination of herbicide application, slashing and hand weeding.

Feral animal monitoring was undertaken using remote cameras within the Wattle Grove offset area, immediately adjacent to the MPE operational facility. Remote cameras were deployed at six locations along the northern and western boundaries of the Wattle Grove offset area. At least four red fox individuals were detected, including two juvenile foxes demonstrating that breeding is likely to be occurring onsite. Foxes were also recorded as preying on unidentifiable small animals on several occasions. To further assist with the management of feral animals within the MPE operational facility, the following recommendations were made:

- The landholder should support the implementation of a feral animal control program predominately focused on the control of the Red Fox in the bushland immediately adjacent to the operational facility.
- The MPE property manager should communicate with Liverpool City Council and surrounding landholders to discuss the feasibility and willingness to undertake a coordinated feral animal control program.
- Communicate with Liverpool City Council to discuss the collection of cats in the offset area.

3.5.2. Riparian Rehabilitation and Management

Riparian vegetation monitoring is undertaken to measure the success of bush regeneration works and track the regeneration and condition of native vegetation at Georges River and Anzac Creek management areas. The average weed cover for the management site was 24.3%, higher than that recorded during the 2021/2022 monitoring period (22.1%). A total of 44 exotic species and 50 native species were recorded across the Georges River management site. During the monitoring period the following trends in vegetation conditions were observed in comparison to the previous monitoring year:

- The edges of the management site adjoining areas of degraded native vegetation with a high composition of weeds have recorded an increase in weed cover.
- Areas which recorded a moderate cover (<30%) of native species in the 2021/2022 monitoring period have maintained, or slightly increased, in native cover and have demonstrated resilience to weed intrusion.
- Areas which recorded a low cover (<30%) of native species in the 2021/2022 monitoring period have seen greater increases in weed cover.

Riparian vegetation monitoring during the review period concluded that additional works are required across the management site to achieve identified key performance indicators and restore native vegetation across the Georges River management site.

3.5.3. Nest Boxes

The results of nest box monitoring for the reporting period are included within the Spring Nest Box Monitoring 2023 Memo (Arcadis, 15/05/2024). A total of 214 nestboxes were identified during the reporting period of which:

- 59 were occupied by six species of native fauna
- Five were occupied by three species of invasive fauna
- Five contained eggs or fledglings from an unidentified bird species.

The native species observed as occupying or utilising the nest boxes included the Australian Owlet-nightjar, Common Brushtail Possum, Common Ringtail Possum, Galah, Rainbow Lorikeet, and Sugar Glider. The native species nest box occupation rate for the review period was measured as 29%, a reduction from the 2022 review period, but a result largely consistent from earlier periods. The occupation rate within the Bootland demonstrated a 25% increase from the previous review period, while the occupation rate within the Georges River corridor demonstrated a 15% decrease during the same period. The reduction in nest box occupancy in the Georges River corridor during the review period was identified as potentially being attributed to maintenance actions that have occurred within the site area.

The native species utilisation rate was measured to be 48% during the 2023 reporting period, a decrease from that recorded during the 2022 reporting period (59%). Although nest box usage demonstrated a decrease from the previous review period, the number of nest boxes with signs of native fauna use has almost doubled since 2018, with overall nest box occupancy and utilisation by native fauna considered adequate. The three invasive species identified as occupying or utilising the nest boxes included the Black Rat (one nest

box), Common Myna (six nest boxes) and European Honey Bee (three nest boxes). The invasive species utilisation rate was measured to be 5% during the 2023 reporting period, a decrease from that recorded during the 2022 reporting period (7%). Nest box utilisation by invasive species has remained low and consistent with previous review periods and has been identified as unlikely to negatively impact native species in the area. No new invasive species from that identified previously were recorded within the current survey period.

The majority of nest boxes identified during the reporting period were observed as showing minor deterioration due to weathering or use by fauna. Eleven nest boxes were identified as broken or having fallen from their tree, meaning that they are unable to be used by local fauna. A total of fifty-one nest boxes were identified as requiring maintenance actions during the monitoring period. Although maintenance actions were undertaken in both May 2022 and May 2023, the number of nest boxes falling continues to increase annually as the boxes approach the end of their expected lifespan. The 2023 survey report recommends that the installation of alternative artificial hollows be considered for future maintenance works and that nest boxes identified as requiring maintenance action be reassessed in spring 2024 for risk to fauna and changes to functionality.

Figure 3-23 Percentage of nest boxes occupied by native fauna

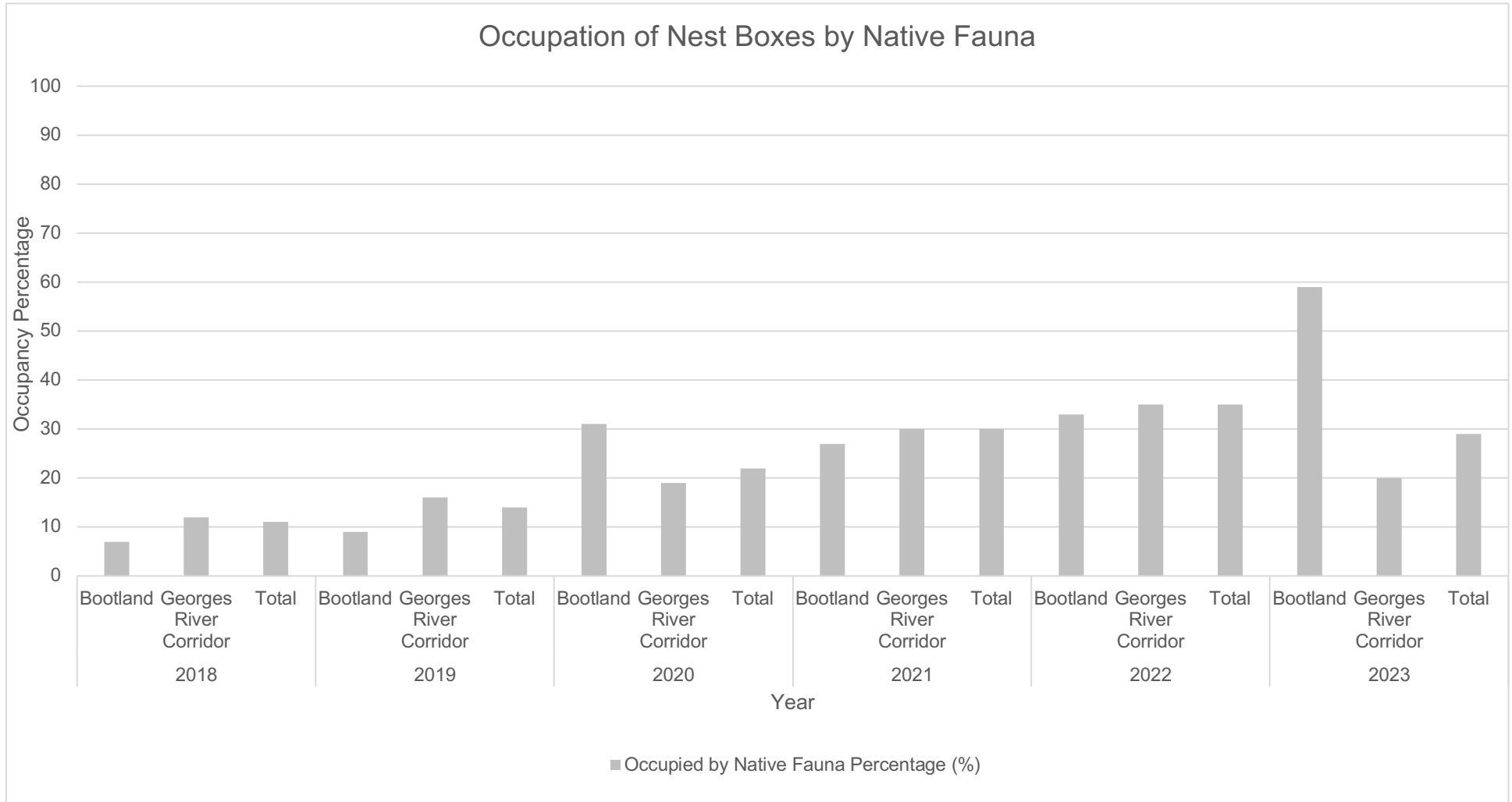


Figure 3-24 Percentage of nest boxes utilised by native fauna

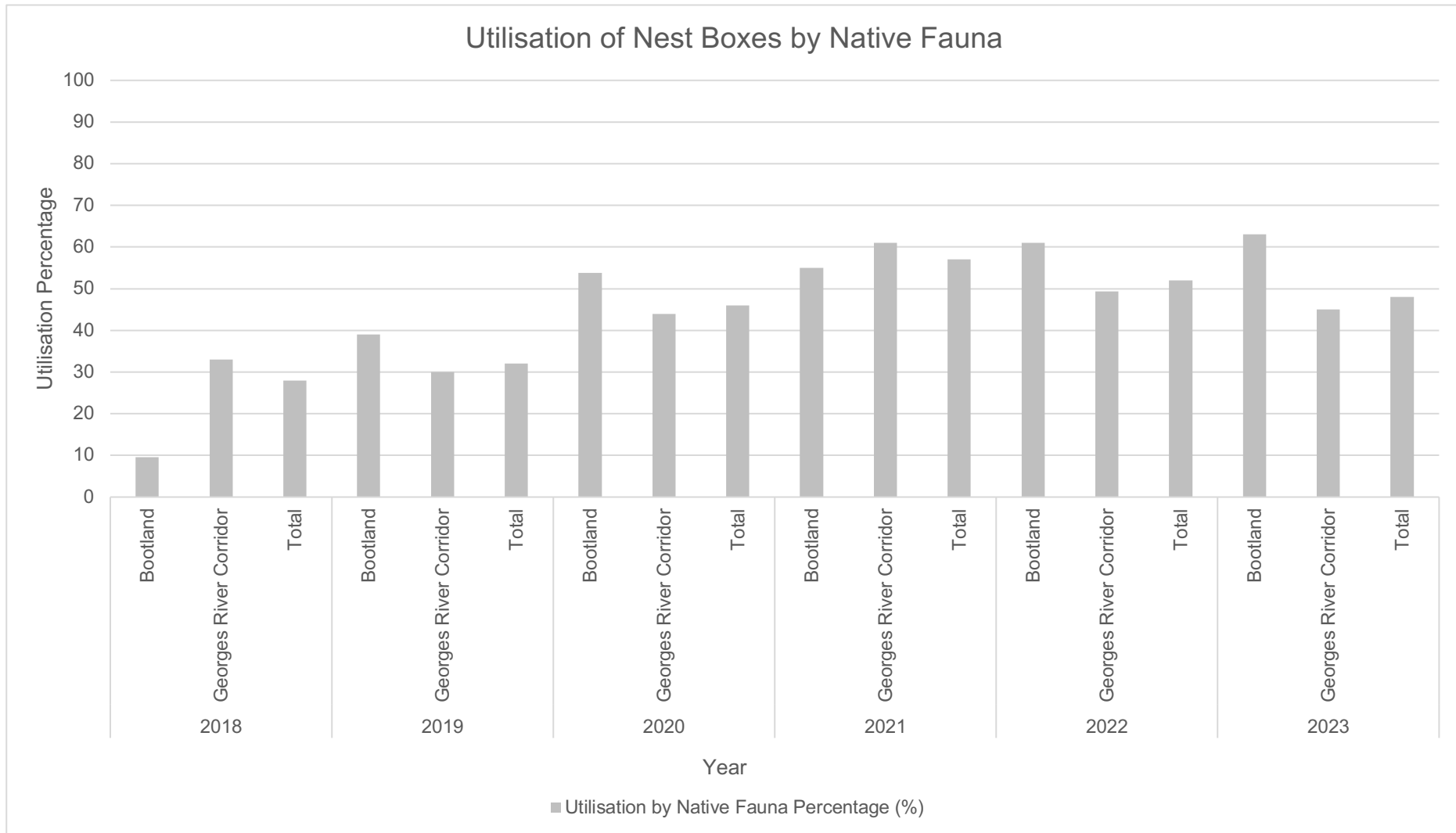
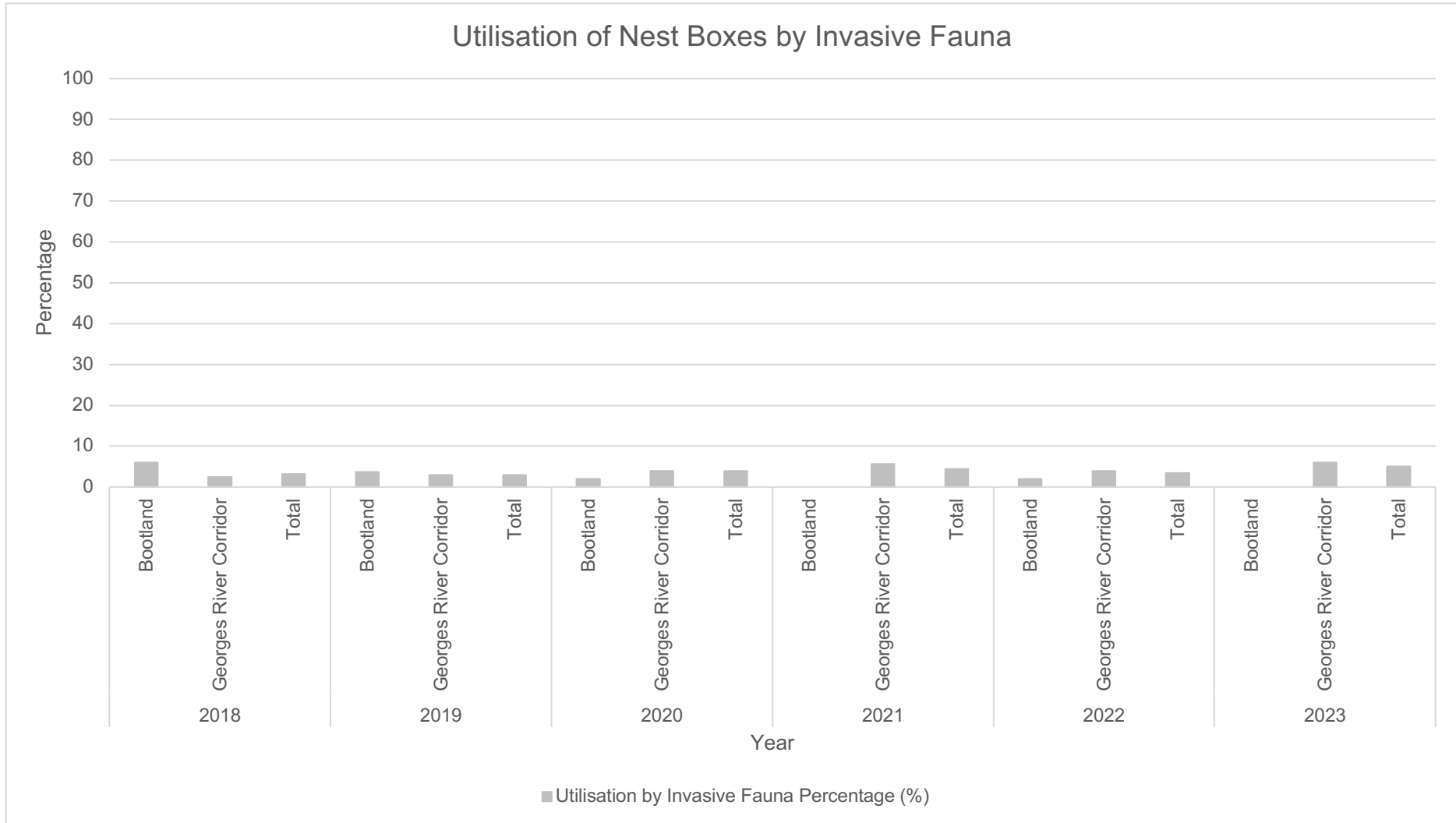


Figure 3-25 Percentage of nest boxes utilised by invasive fauna



3.6. Heritage

Unexpected finds on site are managed in accordance with the Construction Heritage Management Plan (Revision 16, 18/08/2022) and the Unexpected Finds Protocol (Section 3.4.1 of the Construction Heritage Management Plan). No unexpected finds relating to heritage were encountered during the review period.

3.7. Waste

Waste registers are maintained by contractors as required by the Construction and Demolition Waste Management Plan (Section 3.6.4, Revision 13, 18/08/2022). Of the approximate 189 tonnes of construction waste generated on site during the review period, over 39% was provided to a recycling facility. The amount of waste generated during the review period, and subsequent percentage of recycled waste has dropped significantly from the previous review period (1,292 tonnes and 99% recyclable).

3.8. Community Engagement

The following community engagement activities were undertaken in accordance with the Construction Community Communication Strategy (Revision 11, 19/03/2021, SSS2-QPMS-EN-PLN-00001 and Operational Community Communication Strategy (Revision 06, 23/01/2023, PREC-QPMS-EN-PLN-0010), which have been implemented during the review period:

- The development website (<https://moorebankintermodalprecinct.com.au>) was updated with relevant project documentation as required throughout the review period.
- Complaints and enquiries are managed via an independent contractor and details are recorded in a community complaint register, which is available on the project website. This register records complaints over the entire MIP.
- Three newsletters were published in May, August and November during the review period and made publicly available on the development website.
- The Community Consultative Committee met on three occasions during the reporting period. Meeting minutes were made publicly available on the development website.

3.9. Community Complaints

A summary of the community complaints and enquiries received, and the subsequent actions taken during the review period is provided in Table 3-6. Complaints and enquiries are managed in accordance with the Construction Community Communication Strategy (Revision 11, 19/03/2021, SSS2-QPMS-EN-PLN-00001 and Operational Community Communication Strategy (Revision 06, 23/01/2023, PREC-QPMS-EN-PLN-0010).

Table 3-6 Complaints and enquiries received during the reporting period (Moorebank Intermodal Precinct Complaints Register - as of 31 May 2024)

Date	Type	Detail	Action Taken/ Follow Up
19/01/2023	Road	Road user complained about construction dust and mud on Moorebank Avenue.	Road user was advised of mitigation measures in place including dust suppression, the use of water carts, wheel washing and sweeper trucks. Complaint is closed.
02/02/2023	Noise Monitoring	Resident raised concern about specific locations of attended noise monitoring undertaken in 2022.	The resident was provided with further clarification regarding the location of the noise monitoring as well as details of the noise monitoring requirements under the Development's CoC. Enquiry is closed.
07/02/2023	Road	The complainant reported damage to the vehicle while driving on Moorebank Avenue.	The project team liaised with the vehicle owner to resolve the complaint. Complaint is closed.
27/04/2023	Road	The complainant reported damage to the vehicle while driving on Moorebank Avenue.	Further information required to investigate the complaint was not provided. Complaint is closed.
10/05/2023	Traffic	The complainant reported traffic congestion along Moorebank Avenue resulting in increased commute time.	The project team investigated and found that traffic signals, controlled by TfNSW, had malfunctioned on the morning in question. A response was provided to the complainant advising of the signal outage and how to report future signal faults. Information about the closure of Chatham Road intersection was also provided.

			Complaint is closed.
30/05/2023	Noise	A Wattle Grove resident complained about noise in the early hours of the morning which they believed originated from the precinct.	The project team investigated and found no works were being undertaken within the precinct on the night in question. Complaint is closed.
27/06/2023	Dust	A Wattle Grove resident provided feedback about dust generation on Moorebank Avenue.	The project team investigated and found no exceedances of the criteria for deposited dust in the last three months. A letter response explaining specific methods for the management and monitoring of dust generation at the Precinct was provided to the complainant. Complaint is closed.
21/08/2023	Noise	A Wattle Grove resident complained about a metallic clunking noise most often at night-time from a west facing wall (towards the precinct).	The project team investigated and found no works that could initiate noises described by the complainant were being undertaken within the precinct during night-time hours at the time of complaint. The complainant was advised that the precinct could not identify any specific events that would have caused any excessive night-time noise. However, operational teams were reminded to stay vigilant when operating at night. Complaint is closed.
04/09/2023	Noise	A complainant reported noise in the late-night hours near the Fire and Rescue Station on Anzac Road.	The area is outside of MIP development boundary, hence there are no construction works or operations being undertaken within the vicinity of the Fire and Rescue station on Anzac Road. The noise appears not related to the MIP development. Complaint is closed.

22/09/2023	Road	A road user made a complaint about traffic congestion at the intersection of Moorebank Avenue and Anzac Road during peak morning and evening hours. According to the complainant, the congestion is attributed to an auto-sensor system on Anzac Road that causes delays for road users traveling on Moorebank Avenue.	The project team advised the complainant that these traffic signals are controlled by TfNSW and not by the Precinct, therefore the concern is to be raised with TfNSW. Complaint is closed.
24/12/2023	Development Impact	A road user made a complaint regarding a visibility issue caused by an unidentified substance on the caller's vehicle surface while driving in the Precinct area. The investigation determined the substance in question originated from construction operations within the area.	The complainant provided with a suitable cleaning product. Additionally, professional cleaning services have been arranged for their car to ensure the complete removal of the substance. Complaint is closed.

All complaints received during the review period have been closed and responded to as required. Of the eleven complaints received during the 2023 review period, five were determined to be unrelated to activities on the precinct. The majority of complaints received were related to the management of noise and road activities, consistent with that identified in the 2021 and 2022 review periods.

4. Compliance

4.1. Independent Audits

4.1.1. Construction Independent Environmental Audits

No independent environmental audits (IEA) for MPE 2 construction activities were undertaken during the reporting period. The next construction IEA is scheduled to be undertaken in 2024, the content of which will be captured by the 2024 Annual Review as applicable.

4.1.2. Operation Independent Environmental Audits

No independent environmental audits (IEA) for MPE 2 operational activities were undertaken during the reporting period. The next operations IEA is scheduled to be undertaken in 2024, the content of which will be captured by the 2024 Annual Review as applicable.

4.2. DPHI Compliance

No compliance notifications relevant to MPE S2 activities were received during the review period.

4.3. Compliance Reporting

4.3.1. Construction Compliance Reporting

Two construction compliance reports (CCR) were undertaken for the review period;

- CCR #14 covering October 2022 – March 2023 (Revision 2, Aspect Environmental, 29/11/2023)
- CCR #15 covering April 2023 – September 2023 (Revision 2, Aspect Environmental, 14/04/2024).

Four non-compliances were identified within construction compliance reports completed for the review period. The content of the identified non-compliances is detailed in Table 4-1 below.

Table 4-1 Non-compliances identified by CCRs for the review period

Compliance Period	CoC Reference	Detail	Current Status
CCR #14	B84	Construction works on WH6 and 7 commenced in advance of the noise assessment for mechanical plant and other noisy equipment being submitted to the Planning Secretary.	Noise Assessment was submitted to the Planning Secretary on 28 June 2023. Closed.
CCR #14	C16	The Applicant failed to notify DPHI within seven days of becoming aware of the non-compliance identified under B84.	Notification to DPHI of the non-compliance was provided through submission of CCR#14. Closed.



CCR#15	A2	A non-compliance has been reported against CoC C9, triggering a subsequent noncompliance with this condition as the Project has not been undertaken in accordance with all CoC.	Actions for recorded non-compliances were completed. Closed.
CCR#15	C9	SSD-7628-MOD 5 was approved during the reporting period on the 04/09/2023. Notification was provided to DPHI on the 22/11/2023 that revisions to management plans were not required to improve the environmental performance of the Development. At the time it was not identified that revision of the Compliance Tracking Program (CTP) was required.	The updated CTP was provided to DPHI on 22/01/2024. DPHI approval of the CTP was received on 22/03/2024. Closed.

All non-compliances identified for MPE 2 construction activities during the review period have been closed.

4.3.2. Operational Compliance Reporting

Two operational compliance reports (OCR) were undertaken for the review period.

- OCR#6 covering November 2022 – May 2023 (Revision 00, Tactical Group, 08/09/2023)
- OCR #7 covering June 2023 – October 2023 (Revision 1, Tactical Group, 2/04/2024).

No non-compliances were identified against the SSD 7628 development consent within operational compliance reporting for the review period.

5. Activities for the 2024 review period

This section provides a forecast for the activities (construction and operations) which are intended to be carried out over the next calendar year.

5.1.1. Environmental activities

The following environmental activities and reporting in Table 5-1 are expected to be completed for the 2024 review period to support the environmental performance of the development.

Table 5-1 Activities anticipated to be undertaken in the 2024 review period

Activity #	Aspect	Activity
1		Deposited dust monitoring will be ongoing during the 2024 review period.
2	Air Quality	Asbestos monitoring will be undertaken as required during the 2024 review period.
3		Two operational air quality reports are expected to be undertaken for the 2024 review period.
4		An EPL Annual Return for the period June 2023 – June 2024 is due to be undertaken in the 2024 review period.
5	Water Quality	Two Stormwater Network Water Quality Monitoring Data & Reporting Reports are expected to be undertaken for the 2024 review period.
6		Two lots of Biodiversity Monitoring in Anzac Creek reporting are expected to be undertaken for the 2024 review period.
7		Continuous noise monitoring will be ongoing during the 2024 review period.
8	Noise and Vibration	Attended noise monitoring will be undertaken as required during the 2024 review period.
9		Vibration monitoring will be undertaken as required during the 2024 review period.
10	Traffic	Two BTODRs will be prepared for the 2024 review period.
11	Biodiversity	An Annual Flora and Fauna Monitoring Report for the period May 2023-May 2024 is due to be finalised in the 2024 review period. The report will include weed and feral animal monitoring, riparian rehabilitation and management monitoring, and nest box monitoring.
12	Ongoing CEMP and sub-plan updates	As construction activities continue across the MPE Stage 2 development, the CEMP and sub-plan documentation will be updated as necessary.



13	Ongoing OEMP and sub-plan updates	As construction activities continue across the MPE Stage 2 development, the OEMP and sub-plan documentation will be updated as necessary.
14	Independent Audit	An independent audit for MPE S2 construction activities is expected to be completed in the 2024 review period.
15	Independent Audit	An independent audit for MPE S2 operational activities is expected to be completed in the 2024 review period.
16	Ongoing CCRs	Two six-monthly CCRs are due to be undertaken for the 2024 review period.
17	Ongoing OCRs	Two six-monthly OCRs are due to be undertaken for the 2024 review period.

5.1.2. Construction activities

The construction activities proposed to be undertaken during the next review period include:

- sewer raising main cut over and remove/grout old sewer rising main
- completion of warehouse fit-out
- MAUW Bulk Earthworks
- installation of drainage and services
- OSD 10 bulk earthworks
- stockpile relocation
- general site maintenance.

5.1.3. Operational activities

The operational activities proposed to be undertaken during the next review period include:

- warehouse 1, 3a, 3b, 4a, 4b, 5, 6 and 7 operations
- movement and storage of containers/ goods in and out of the terminal via rail
- transfer of containers between terminal and warehouses via internal transfer vehicles
- pick-up and delivery of containers/ goods from, or to, warehouses via truck movements
- security, maintenance and monitoring of all infrastructure and equipment related to the above activities.

6. Conclusion

The environmental performance of the MPE Stage 2 development has been reviewed and detailed in this Annual Review as required by SSD 7628 CoC C10.

The report has assessed relevant predications in the Environmental Impact Statement (EIS), Response to Submissions Report (RtS) and CoC, and has also considered the effectiveness of environmental management measures required under the SSD 7628 development consent.