



Ongoing Monitoring Report 2025

HMAS Albatross

Department of Defence

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→ **The Power of Commitment**



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Acknowledgement of Country

GHD acknowledges Aboriginal and Torres Strait Islander peoples as the Traditional Custodians of the land, water and sky throughout Australia on which we do business. We recognise their strength, diversity, resilience and deep connections to Country. We pay our respects to Elders of the past, present and future, as they hold the memories, knowledges and spirit of Australia. GHD is committed to learning from Aboriginal and Torres Strait Islander peoples in the work we do.



Executive summary

Department of Defence (Defence) has engaged GHD Pty Ltd (GHD) as lead consultant to support the management of legacy per- and poly-fluoroalkyl substances (PFAS) impacts at His Majesty's Australian Ship (HMAS) Albatross (the 'site') (Site ID 0026) in New South Wales (NSW) and the surrounding lands that form part of the 'Management Area'. The engagement involves the implementation of the PFAS Management Area Plan (PMAP) (Defence, 2019), which outlines measures for managing risks to human health and the environment from PFAS contamination. The PFAS Ongoing Monitoring Plan (OMP) forms part of the PMAP and outlines the PFAS monitoring requirements for the site and off-site areas within the Management Area.

The objective of the OMR (Ongoing Monitoring Report) is to assess and interpret the PFAS data and other information collected for the site, as specified in the OMP (refer to Section 1.2), to identify and evaluate:

- Spatial and temporal (including seasonal) variability of PFAS in the environment.
- Changes to sources, transport pathways and/or receptors (the conceptual site model (CSM)).
- Whether the identified changes (if any) trigger an action and/or review of risk management decisions by Defence and Government agencies to protect human health and the environment.

The human health and ecological risk assessment (HHERA) (EnRiskS, 2017) and the addendum to the HHERA (EnRiskS, 2018) identified potentially unacceptable risk to human and ecological receptors. These identified exposure pathways form the basis of the site's 'risk profile' and are managed under the site PMAP (Defence, 2019).

GHD have completed periodic monitoring of groundwater and surface water between December 2024 and November 2025 (herein referred to as 'the monitoring period') in accordance with the relevant sampling and analysis quality plans (SAQPs) (GHD, 2025c; GHD, 2025d). This monitoring period targeted PFAS, namely perfluorooctane sulfonic acid (PFOS), perfluorooctanoic acid (PFOA) and perfluorohexane sulfonic acid (PFHxS) and included selected locations on-site and in surrounding off-site areas, including the Management Area.

Data collected as part of the OMP (Defence, 2019) and evaluated in this report was assessed using trend analysis and by comparison of concentration 'performance measures' selected based on the CSM. The performance measures for both groundwater and surface water have been applied to the surface water sub-catchments and comprise screening criteria and assessment triggers. There are seven surface water sub-catchments in the Management Area that have monitoring locations within them: Braidwood Road drain, Lower Calymea Creek, Cabbage Tree Creek, Flat Rock Creek, Upper Currumbene, Parma Creek and Yerriyong Gully.

The OMP monitoring, conducted between December 2024 and November 2025, has provided additional data to further understand any changes in PFAS concentrations in groundwater and surface water. PFAS concentrations were generally within historical ranges and statistical trend analysis indicates inconclusive or decreasing trends. There were two exceptions to this; some new maximum concentrations in groundwater detected in on base source area locations, and some new maximum concentrations in surface water pathway locations. However, there were no changes in maximum concentrations at receptor (offsite) locations.

Overall, data presented in this report indicates that the PFAS primary and secondary sources, pathways and receptors are stable and do not significantly change the understanding of the CSM, with the exception of the identification of a potential additional source of PFAS within the trade waste system on base near MW104. This trade waste system is located near Hangar J to the east of the base and will be investigated further. Future monitoring will continue to contribute to an evaluation of any potential changes to the CSM. No discernible increasing groundwater trends are present within the off-site locations surrounding the site at a catchment level.

Therefore, based on the results and current land uses within the Management Area the overarching risk profile remains unchanged.

Ongoing monitoring of groundwater and surface water as part of the OMP will continue to assess the nature and extent of PFAS, potential migration and any associated changes to the risk profile in line with the timelines outlined in the PFAS Management Area Plan (PMAP) (Defence, 2019).

This report is subject to, and must be read in conjunction with, the limitations set out in Section 1.3 and the assumptions and qualifications contained throughout the Report.

List of acronyms

Acronym	Term
AECs	Area of environmental concern
ADWG	Australian drinking water guidelines
ANZG	Australian and New Zealand water quality guidelines
COPC	Chemicals of potential concern
CSM	Conceptual Site Model
CSR	Defence Contaminated site register
DCMM	Defence Contamination Management Manual
Defence	Department of Defence
DO	Dissolved Oxygen
DQI	Data Quality Indicator
DQO	Data Quality Objective
DSI	Detailed site investigation
EC	Electrical Conductivity
EPA	NSW Environment Protection Authority
FFTA	Former firefighting training area
FSANZ	Food Standards Australia New Zealand
HEPA	Heads of Environment Protection Authority
HMAS	His Majesty's Australian Ship
HHERA	Human Health and Ecological Risk Assessment
LOR	Limit of Reporting
NATA	National Analytical Testing Authority
NEMP	National Environmental Management Plan
NEPM	National Environment Protection Measure
NHMRC	National Health and Medical Research Council
NSW	New South Wales
OMIR	Ongoing Monitoring Report
OMP	Ongoing Monitoring Plan
ORP	Oxidation Reduction Potential
PFAS	Per- and poly-fluoroalkyl substances
PFBS	Perfluorobutane sulfonic acid
PFHxS	Perfluorohexane sulfonic acid
PFOA	Perfluorooctanoic acid
PFOS	Perfluorooctane sulfonic acid
PMAP	PFAS Management Area Plan
QA/QC	Quality Assurance and Quality Control
RPD	Relative percentage difference
SAQP	Sampling and analysis quality plan
STP	Sewage treatment plant

Acronym	Term
SW	Surface water
SWL	Standing water level
TOC	Top of casing
WQM	Water quality meter

List of units

Units	Term
°C	Degrees Celsius
µg/L	Micrograms per Litre
µS/cm	Micro Siemens per Centimetre
g	Grams
kg/yr	Kilograms per year
km	Kilometre
L	Litre
L/s	Litres per second
m	Metre
mg/L	Milligrams per Litre
mAHD	Metres Australian Height Datum
mbgl	Metres below ground level
mbTOC	Metres below top of casing
mV	Millivolt

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1. Introduction

Department of Defence (Defence) engaged GHD Pty Ltd (GHD) to implement the per- and poly-fluoroalkyl substances (PFAS) Ongoing Monitoring Plan (OMP) at His Majesty's Australian Ship (HMAS) Albatross (the 'site') (Site ID 0026) in New South Wales (NSW) and the surrounding lands that form part of the Management Area.

As lead consultant, GHD supports Defence in the management of legacy PFAS impacts and the implementation of the PFAS Management Area Plan(s) (PMAPs) (Defence, 2019) for the site with a key objective of the program to review, revise and implement the PMAP actions. The OMP (Defence, 2019) forms part of the PMAP and outlines the sampling requirements for the site and off-site areas within the Management Area. The location of the site and Management Area is shown in Figure A1, Appendix A.

The two scheduled OMP sampling events for 2025 were completed in February and August and were undertaken by GHD with results presented in the OMP sampling event reports (2025a; 2025b). In order to meet the objectives of the OMP, the monitoring was undertaken in accordance with the relevant sampling and analysis quality plans (SAQPs) (GHD, 2025c; GHD, 2025d) (Appendix E).

This Ongoing Monitoring Report (OMR) has been prepared in accordance with the Defence *Ongoing Monitoring Program Reporting Guidance* issued in February 2024 (Defence, 2024) and is based on monitoring data collected between December 2024 and November 2025 (herein referred to as the monitoring period).

1.1 Objectives

The objective of the OMR is to assess and interpret the PFAS data and other information collected for the site, as specified in the OMP (refer Section 1.2), to identify and evaluate:

- Spatial and temporal (including seasonal) variability of PFAS in the environment.
- Changes to sources, transport pathways and/or receptors (the conceptual site model (CSM)).
- Whether the identified changes (if any) trigger an action and/or review of risk management decisions by Defence and Government agencies to protect human health and the environment.

1.2 Scope

The scope of work for this OMR included assessing spatial and temporal changes to the distribution of PFAS over the monitoring period. It also evaluated whether these changes have implications for the understanding of the Conceptual Site Model (CSM) and the risk profile with respect to the human health and ecological risk assessment (HHERA) (EnRiskS, 2017) and PFAS impacts at the site. The scope of work as part of the OMP included the following sampling carried out at the on-site and off-site areas:

- Annual groundwater and biannual surface water sampling (February 2025); and
- Biannual surface water sampling (August 2025).

This included the evaluation of data reported in the following sampling event reports:

- GHD (2025a) Sampling Event Report February 2025 | PFAS OMP – HMAS Albatross (Rev 1, 21/05/2025).
- GHD (2025b) Sampling Event Report August 2025 | PFAS OMP – HMAS Albatross (Rev B, 20/10/2025).

These reports are included in Appendix F.

Data from other reports undertaken within the monitoring period have also been included in the evaluation of the distribution of PFAS and the risk profile of the site (refer Section 3.1). All data collected during the monitoring period have been compared to the historical data collected at the sampling locations.

1.3 Limitations

This report has been prepared by GHD for Department of Defence and may only be used and relied on by Department of Defence for the purpose agreed between GHD and Department of Defence as set out in Section 1.1 of this report.

GHD otherwise disclaims responsibility to any person other than Department of Defence arising in connection with this report. GHD also excludes implied warranties and conditions, to the extent legally permissible.

The services undertaken by GHD in connection with preparing this report were limited to those specifically detailed in the report and are subject to the scope limitations set out in the report.

The opinions, conclusions and any recommendations in this report are based on conditions encountered and information reviewed at the date of preparation of the report. GHD has no responsibility or obligation to update this report to account for events or changes occurring subsequent to the date that the report was prepared.

The opinions, conclusions and any recommendations in this report are based on assumptions made by GHD described in this report. GHD disclaims liability arising from any of the assumptions being incorrect.

GHD has prepared this report on the basis of information provided by Department of Defence and others who provided information to GHD (including Government authorities), which GHD has not independently verified or checked beyond the agreed scope of work. GHD does not accept liability in connection with such unverified information, including errors and omissions in the report which were caused by errors or omissions in that information.

2. Site setting

2.1 Site identification and setting

A summary of site identification details is provided in Table 1 and the site locality is shown in Figure A1, Appendix A. The site layout is provided in Figure A2, Appendix A.

Table 1 Site identification and setting summary

Information	Details
Street Address	HMAS Albatross (0026), Parma NSW 2540.
Coordinates (approximate site centre)	34°56'56"S and 150°32'13"E
Site Area	900 hectares (ha).
Military Area (Property ID)	0026
Local Government Area	Shoalhaven
Traditional custodians	Jerrinja and Wandj-Wandandian tribe of the Yuin nation.
Current Land Use	Department of Defence airfield with hangars / workshops and associated infrastructure including offices, training facilities, fire station and sewage treatment plant (STP).
Surrounding land use	<p>Land uses surrounding the site include the following:</p> <ul style="list-style-type: none"> – North: The land to the north of the site is a mix of agricultural and residential properties. The site is bounded by Braidwood Road, which has a drainage channel located parallel. Bamarang Reservoir is located approximately 3.5 km north west of the site. The water from the reservoir is understood to be sourced from the Shoalhaven River approximately 10 to 11 km upstream from Calymea Creek. Cabbage Tree Creek is located to the north of the site, approximately 150m from the site boundary. – North-east: Nowra Hill Public School, further to the northeast is Nowra Creek, located approximately 2.5 km from the site boundary. – East: The topography falls to the east of the site through agricultural land. The upper tributaries of the Currumbene Creek are located in this area. – South: Parma Christmas Tree Farm and other agricultural land are located to the south, traversed by the upper tributaries of the Yerriyong Gully. – West: Albatross Aviation Technology Park and further west is Nowra Motorcross complex with a clearing along Braidwood Road and race track. Colymea State Conservation Area is mostly located to the west and is heavily vegetated forest.
Climate	<p>The climate of the HMAS Albatross region (NSW South Coast) is considered warm, mild, and temperate. Temperatures average a high of 27 °C in the summertime, with a low of 15 °C. Winter highs centre around 17 °C, while lows drop to 7 °C.</p> <p>Most rainfall is sporadic but tends to arrive in late summer and early autumn. Heavy rainfall can occur if a strong anticyclone is found to the south. Combined with the basin-like topography, surface water retention and flooding on the site can be significant and the runways can be flooded and put out of operation.</p> <p>Statistical rainfall data from the Bureau of Meteorology (BOM) site for the Nowra Royal Australian Navy (RAN) Air Station (068072) (for the period 2000 to 2025) is summarised below (Bureau of Meteorology, 2025).</p> <p>February event</p> <p>During the February sampling event (11 to 13 February 2025), the weather was observed to mostly dry and warm, with maximum daily temperatures between 26.7 °C (12 February 2025) and 28.8 °C (13 February 2025) (Bureau of Meteorology, 2025).</p> <p>A cumulative of 3.4 mm of rainfall was recorded during the sampling event. In the 48 hours prior to 9 am on the first day of the sampling event, cumulative rainfall was recorded to be 18 mm (Bureau of Meteorology, 2025).</p>

Information	Details
	<p>An assessment of past February sampling events (annually from 2020 onwards) to the February 2025 sampling event was carried out. The maximum amount of rainfall recorded in the 48 hours prior to sampling was in 2022 (8 mm).</p> <p>August event</p> <p>During the August sampling event (28 and 29 August 2025), the weather was observed to be mostly dry and cool on both days, with a maximum daily temperature of 17.5 °C and 19.5 °C, respectively (Bureau of Meteorology, 2025).</p> <p>A cumulative of 0.6 mm of rainfall was recorded during the sampling event. In the 48 hours prior to 9 am on the first day of the sampling event, cumulative rainfall was recorded to be 1 mm (Bureau of Meteorology, 2025).</p> <p>An assessment of past August sampling events (annually from 2020 onwards) to the August 2025 event was carried out. The maximum amount of rainfall recorded in the 48 hours prior to sampling was in 2021 (5 mm).</p>
<p>Topography and site drainage</p>	<p>The site is situated on mostly flat terrain, at an elevation of approximately 120 m Australian Height Datum (AHD). The area has been extensively cleared and highly modified by flattening of ridges to create a level site for the airfield (Connell Wagner 2005 cited in Aurecon 2017), which has an elevation of between approximately 103 and 118 m AHD. The Nowra Hill Radar Tower in the north-east corner of the site is at an elevated part of the site of approximately 197 m AHD. Elevation drops steeply in the east of the site to approximately 40 m AHD towards Currumbene Creek.</p> <p>Stormwater across the site is collected in constructed drains that divert water to two main discharge points:</p> <ul style="list-style-type: none"> – Braidwood Road drain in the north of the site. This drain discharges directly into the Calynea Creek which ultimately discharges into the Shoalhaven River. – Currumbene Creek in the south of the site. This drain discharges into Yerriyong Gully which in turn discharges into the Currumbene Creek. Currumbene Creek eventually discharges into Jervis Bay. <p>Drainage at the site is complex and made up of a series of open channels and culverts structures that convey stormwater runoff to the receiving environment. As a result of the low relief at the site, the hydrology and flow pathways are complex and vary based on the relative magnitude of flow that is conveyed within each drain. These are described in the following section for both low, day to day flows, as well as for higher flow rates that may occur during storm events.</p>
<p>Hydrology</p>	<p>The site drains to two receiving environments, namely the Shoalhaven River Basin which is drained by the Braidwood Road drain to the north towards the Shoalhaven River, as well as Currumbene Creek and Yerriyong Gully which connect and flow into the Clyde River Basin and ultimately Jervis Bay.</p> <p>Beyond the site, natural surface water bodies include:</p> <ul style="list-style-type: none"> – Cabbage Tree Creek: Located off-site, to the north of the site. Flows in a south-to-north direction from the northern site boundary to the Shoalhaven River. – Calynea Creek: Located off-site on the northwest boundary of the Management Area. Flows in a south-to-north direction from the western site boundary to the Shoalhaven River. – Shoalhaven River: Flows from the west and is located north of the northern extent of the site boundary. – Currumbene Creek: Located east of the site within the Management Area. Flows in a north-to-south direction from the eastern boundary of the site to Jervis Bay. – Yerriyong Gully: Located on-site, down gradient from the STP primary source area. Flows in a south-to-north direction and follows the southern boundary of the site to Currumbene Creek to the east. – Braidwood Road drain: Located northwest of the ridgeline and downgradient from on-site irrigation areas. Flows westerly until the confluence of Calynea Creek. – Flat Rock Creek: Located north of the site within the Management Area. Flows in a northerly direction and into Flat Rock Dam approximately 4.7 km north of the site. It eventually flows into Nowra Creek and then the Shoalhaven River. – Parma Creek: Located off-site, on the southeast boundary of the Management Area. Flows in a north east direction until the confluence of Currumbene Creek. <p>For the purposes of the OMP, the sub-catchments of these surface water bodies have been modelled and the receiving sub-catchment of each surface water and groundwater monitoring point has been identified. These sub-catchments are presented in Figure A11, Appendix A, and the receiving sub-catchment of each monitoring point is identified in Section 4.4.2.</p>

Information	Details
	Town water for the site is sourced from the Bamarang Reservoir, approximately 3.5 km to the north-west of HMAS Albatross.
Geology	Beneath the alluvial soils, the site is underlain by the Permian age Berry Siltstone, comprising mid grey to dark grey siltstone to fine sandstone, with an approximate thickness of 30 to 60 m, overlying the Permian age Nowra Sandstone (Aurecon, 2017). Intrusive investigations undertaken in 2017 identified the presence of siltstone to a depth of between 0.8 and 4.2 mbgl in the east and between 4.8 and 10 mbgl in the west (Aurecon, 2017). The Berry Siltstone is deeply weathered at the site with depths to fresh rock occurring between 5 to 10 mbgl.
Hydrogeology	<p>The site is divided into two main water catchments:</p> <ul style="list-style-type: none"> – Shoalhaven River Basin – Northwestern portion of site. Groundwater in this catchment flows generally to the north and north-east. – Clyde River Basin – Southern and Eastern portion of the site. Groundwater in this catchment flows generally to the south and south-east. The catchments are further subdivided into sub-catchments. The Former Fire Training Area (FFTA) is located in the Yerryong Gully sub-catchment which is within the Clyde River Basin catchment. <p>The groundwater aquifer that underlies the site is generally semi-confined, indicated by the standing water levels (SWL) in monitoring wells across the site being shallower than the depth to the well screens (Aurecon 2017). Groundwater has generally been encountered at depths of greater than 5 mbgl within the vicinity of the runway, with the recorded SWL ranging from 2.0 to 8.0 mbgl.</p> <p>Inferred groundwater direction is either north to northeast towards the Shoalhaven River or south to southeast towards Currumbene Creek and Jervis Bay (Aurecon 2017).</p> <p>There are no current registered groundwater bores on the site or within 500 m radius of the site. The site is serviced by reticulated water, and the grassed airside training areas are irrigated using treated effluent from the on-site Sewerage Treatment Plant (STP) (AECOM 2020).</p> <p>Drilling observations made during the mass flux assessment (Aurecon 2022) identified three broad water bearing zones within the unconsolidated weathered siltstone zone:</p> <p>Topsoil which contains a shallow perched system and is present as waterlogged soils and dissipate relatively quickly after rainfall events. This is part of the unconsolidated sediments. This unit may connect and discharge into the surface water drainage systems on-site during period following high rainfall events.</p> <p>An intermediate more continuous system residing in the weathered (upper) Berry Siltstone silty clay/ironstone (laterite) formation generally between 1 to 9 m below ground level (mbgl). This is the main zone where the PFAS mass flux is occurring in offsite groundwater migration. This is between 5 to 10 m below the interface between the unconsolidated system and the siltstone bedrock.</p> <p>A deep system in the more consolidated siltstone and sandstone bedrock (Berry Siltstone) (>9 mbgl).</p> <p>There is a discontinuous and intermittent perched water layer that appears after heavy rain events (the shallow perched system) in the unconsolidated sediments. This forms part of the intermediate aquifer when present. The continuous intermediate groundwater aquifer is fed by rainfall recharge and has accumulated over geologic time on the relatively impermeable subsurface material below the site. Recharge of the deeper siltstone unit may be from regional flow and the overlying units (GHD, 2025f).</p> <p>Overall, results indicate that the shallow and intermediate groundwater systems is a single semiconfined/ leaky aquifer, which may be discontinuous in localised areas, but is likely present across the wider site area and contains variable zones of saturated and unsaturated materials (Aurecon, 2021).</p>
Groundwater and surface water use	<p>Groundwater and surface water is not used on-site for any purposes. All water is supplied through town water.</p> <p>Treated water from the STP has been used to irrigate three on-site areas. These areas are the western pad, the parachute training area and an area near the flight deck procedural trainer area. Currently only the area near the flight deck procedural trainer area is being irrigated.</p> <p>A water use survey was issued to neighbouring properties as part of the Preliminary Site Investigation (PSI) (Aurecon, 2016) and the results were reported in the Detailed Site Investigation (DSI) (Aurecon, 2017). Surveys were issued to 98 neighbouring residents and they received 32 responses. At the time the responses received were generally consistent and the following conclusions were drawn:</p> <ul style="list-style-type: none"> – Drinking water was either supplied through town water or rainwater. – Residents did not use bore water for any purposes with the exception of one resident indicated a dam was used for irrigation for lawn, fruit and vegetables as well as stock. – Surface water does not appear to be used for drinking water.

2.2 Management Area

The Management Area (Figure A1, Appendix A) within the PMAP refers to on-site areas of HMAS Albatross, and includes off-site discrete residential properties with PFAS impacts within the Braidwood Road drain, Nowra Creek, Upper Currumbene Creek and Cabbage Tree Creek sub-catchments. The sub-catchments and surface water flow directions are shown on Figure A11, Appendix A.

2.3 PFAS source areas

The PMAP (Defence, 2019) provides a roadmap for response management by Defence for potential risks arising from PFAS contamination associated with the site, and offsite within the management area.

PFAS can travel from a source to human or environmental receptors by surface water and groundwater and are referred to as migration pathways.

The PMAP identified the following PFAS source areas at the site:

- Primary Sources (PFAS impacted soil):
 - Soil at the Former Firefighting Training Area (FFTA).
 - Soil at the STP.
- Secondary Sources (where PFAS has migrated to a location and creates a concentration of impact):
 - Soil, groundwater and surface water at the STP irrigation areas.
 - Soil, groundwater and surface water at the hangars, flight lines, fire station, former fire station and associated activities.
 - Soil, groundwater and surface water at former AFFF exercise area, fire-fighting training areas and former stockpile areas.

Figure A2, Appendix A, has been updated from the PMAP (Defence, 2019). It highlights the updated key areas of environmental concern (AECs) and the contaminated site register (CSRs), which include potential primary and secondary PFAS sources.

3. Other aspects

To achieve the OMP objectives, inform the CSM and allow assessment of the site risk profile, a review of other site aspects should be undertaken in conjunction with the assessment of the monitoring data. The following subsections review other aspects of the site since the previous OMR (GHD, 2025e) that may impact the interpretation of analytical results.

3.1 PFAS projects

In addition to ad-hoc sampling undertaken by GHD throughout the year, the following PFAS projects were undertaken during the reporting period. Results from samples collected at OMP locations during ad-hoc sampling and other PFAS projects during the reporting period have been included in this OMR.

3.1.1 PFAS Mass Flux

GHD undertook PFAS sampling in July and August 2025 following >95 mm of rainfall within 72 hours and in January 2026 following >35mm rainfall event to support the characterisation of PFAS concentrations leaving the site. The key objective of the project was to understand the quantum of PFAS flux from on-site catchments, to develop a better understanding of the contribution of sources areas therein. The assessments reported the PFAS flux at the site boundaries in a similar magnitude to previous studies, and the primary source of onsite contamination is the FFTA.

3.1.2 PFAS Data Gaps Sampling

GHD undertook surface water sampling in May 2025 to understand the PFAS levels leaving the site to the northern catchments (Flat Rock Creek, Cabbage Tree Creek and Nowra Creek) (GHD, 2025i). Surface water concentrations were noted to be below the adopted human health recreational guideline. While these exceedances were within the same order of magnitude as the screening criteria, the potential risk to receptors using this surface water for produce irrigation or stock watering was considered low. Nonetheless, source-pathway-receptor linkages were noted to be present.

GHD also undertook surface water sampling of SW049 and SW185 in July 2025 to understand the impact of surface water to the perched aquifer at Yerriyong Gully (GHD, 2025i). PFOS+PFHxS and PFOA concentrations were broadly similar to historical results within the Yerriyong Gully sub-catchment. It was recommended that 0026_SW185 be incorporated into the OMP to monitor for potential changes in PFAS concentrations between 0026_SW049 and 0026_SW008 over time. The report also recommended additional assessment to enhance understanding of surface-groundwater interactions in the eastern portion of the site.

3.1.3 PFAS remediation project

A remediation action plan (RAP) (Aurecon, 2021) was produced in 2021 for the former fire-fighting training area (FFTA). The RAP remedial approach is a multi-layered cap that directs rainwater into perimeter drains and isolates the impacted soils within the FFTA from shallow lateral surface water flows. Detailed design of the capping and drainage works is underway for the former FFTA and remedial construction works are planned to commence in 2026.

3.2 Infrastructure projects

Ongoing construction works were observed during the February and August sampling events, including for:

- Finalisation of drainage work upgrades (as part of P0010 National Airfields Works across the east-west runway (08/26) (February only), approximately 700 m south-west of location SW009 (refer Figure A3, Appendix A).
- Resurfacing of the north-south runway (03/21) (August only) (as part of P0010 National Airfields Works), located approximately 250 m and 475 m south-east of location SW124 and SW018, respectively.

- Earthworks and asphalt batching plant operation on the western side of the site, north of the Romeo Facility, as part of the finalisation of drainage works and the resurfacing of the runways. The closest point of these earthworks is approximately 85 metres south of SW007 (refer Figure A3, Appendix A).

3.3 Significant weather events

The rainfall data for the monitoring period compared against monthly historical means, are presented in Diagram 1. The data is from the Bureau of Meteorology monitoring station located at Nowra RAN Air Station (068072) and includes data from December 2000 to November 2025.

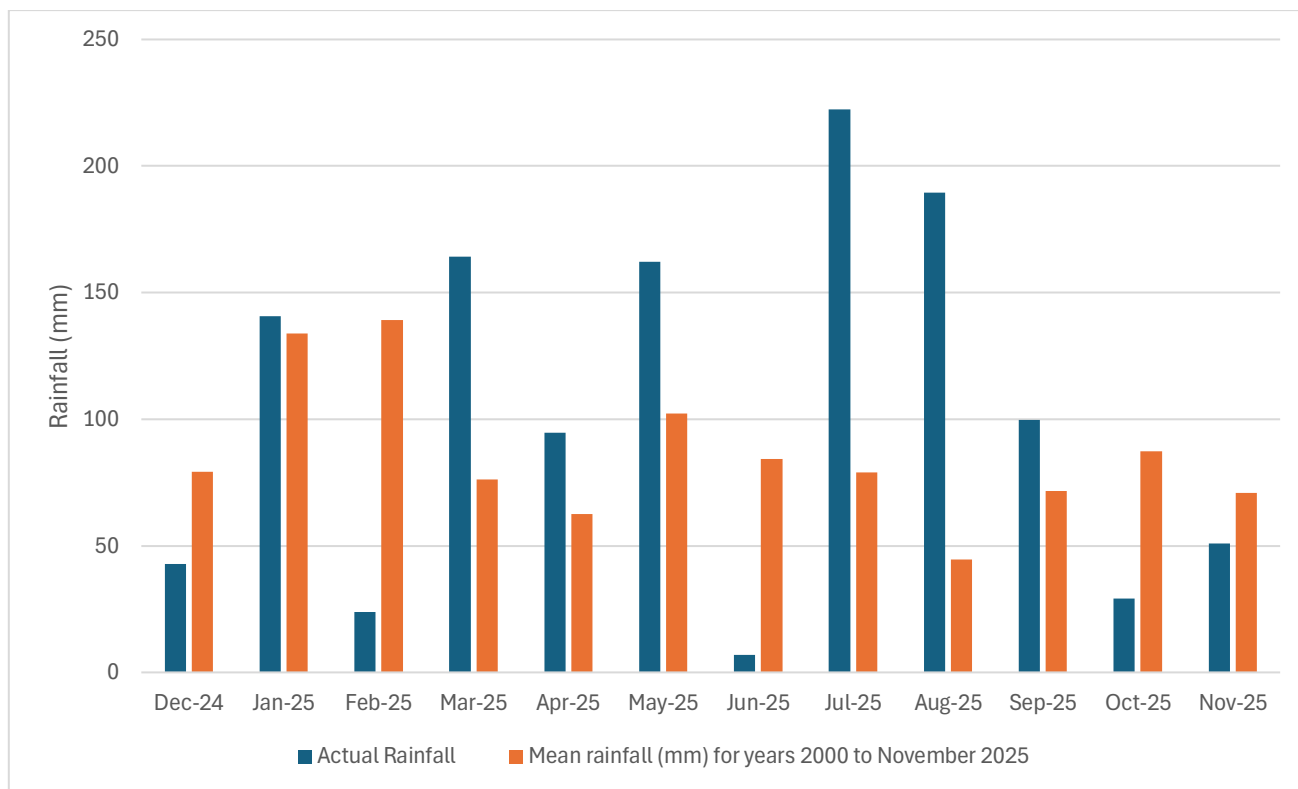


Diagram 1 Monthly rainfall (December 2024 to November 2025) compared to mean rainfall (December 2000 to November 2025)

The annual rainfall for the site during the monitoring period was 1226.8 mm and is more than the annual average of 1031.2 mm of rainfall. From March to May, and July to September the site experienced higher than average rainfall, with March, July and August experiencing over double the average rainfall for their respective months. The surface water sampling conducted in February was undertaken towards the start of the month following average conditions in January; sampling in August was undertaken towards the end of the month following higher than average conditions.

Rainfall activity during the surface water sampling events for the monitoring period is outlined in Table 2 below.

Table 2 Rainfall during sampling events

Sampling event	Observations
February 2025 Annual Sampling (11 to 13 February)	During the sampling event the weather was observed to be mostly dry and warm, with maximum daily temperatures between 26.7 °C (12 February 2025) and 28.8 °C (13 February 2025) (Bureau of Meteorology, 2025). A cumulative of 3.4 mm of rainfall was recorded during the sampling event. In the 48 hours preceding 9 am on the first day of the sampling event, a cumulative rainfall of 18 mm was recorded (Bureau of Meteorology, 2025).

Sampling event	Observations
August 2025 Biannual Sampling (28 and 29 August)	<p>During the sampling event the weather was observed to be mostly dry and cool on both days, with a maximum daily temperature of 17.5 °C and 19.5 °C, respectively (Bureau of Meteorology, 2025).</p> <p>A cumulative of 0.6 mm of rainfall was recorded during the sampling event. In the 48 hours preceding 9 am on the first day of the sampling event, a cumulative rainfall of 1 mm was recorded (Bureau of Meteorology, 2025).</p>

3.4 Water and land use changes

There have been no reported changes in water and land use within the Management Area during this monitoring period that GHD has been notified about. However, the area adjacent to the security control gates at Braidwood Road has changed due to the P0010 infrastructure works. The area has been turned into a bitumen plant, car park and soil stockpile holding area. The area will be restored to normal once the work is completed. Changes to on-site drainage have also occurred as part of upgrades to the east-west runway, which are still ongoing.

4. Sampling analysis and methodology

4.1 SAQP

The February and August sampling events were undertaken by GHD in accordance with their respective SAQPs (GHD, 2025c; GHD, 2025d). Both SAQPs were written in accordance with the OMP which is presented in the PMAP (Defence, 2019). The SAQPs outlined the sampling schedule and rationale for sampling with the sampling methodology for surface water and groundwater. Both SAQPs are provided in Appendix E.

The monitoring events completed between December 2024 and November 2025 are provided in Table 3.

Table 3 Monitoring completed between December 2024 and November 2025

Monitoring event	Scope as per SAQP	Samples collected	Analysis
February 2025 undertaken by GHD	On-site		PFAS extended suite with limit of reporting (LOR) of 0.01 µg/L
	6 surface water samples	6	
	25 groundwater samples	21	
	Off-site		
	12 surface water samples	12	
	7 groundwater samples	7	
August 2025 undertaken by GHD	On-site		PFAS extended suite with LOR of 0.01 µg/L
	6 surface water samples	6	
	Off-site		
	15 surface water samples	13	

4.2 Deviations from the SAQP

The February 2025 and August 2025 sampling events were completed by GHD in accordance with their respective SAQPs (GHD, 2025c; GHD, 2025d). Sampling event deviations from the respective SAQPs are noted in the sampling event reports and are reproduced in Table 4 below.

Table 4

Deviations from the SAQPs – August 2025 and February 2025 sampling events

SAQP deviations	Comment / justification	Impact on dataset
February 2025		
Samples, as wells as associated gauging and water quality parameters were not collected from four of the 32 scheduled groundwater sampling locations.	<p>The following groundwater locations were not able to be located:</p> <ul style="list-style-type: none"> – 0026_MW030: Lost, likely buried. Approximately 0.5 hours spent trying to locate with metal detector, Global Positioning System (GPS) coordinates and shovel. This location was last sampled in 2016. – 0026_MW046: Lost, likely buried. Known to be lost prior to event. This location was last found and sampled in February 2023. – 0026_MW088: Destroyed, review of Nearmap aerial imagery show the carpark was resurfaced circa 2016 – 2017 and the well is likely paved over. There are no historical results in ESdat for this location. – 0026_MW112: Destroyed, likely buried. Approximately 0.5 hours spent trying to locate with metal detector, GPS coordinates and shovel. Review of Nearmap aerial imagery shows the site boundary fence was replaced and the land surface either side of the fence line cleared and levelled circa 2017. The most recent historical results for this location in ESdat are from 2013 for non-PFAS analysis. 	<ul style="list-style-type: none"> – 0026_MW030 was added to the OMP to fill in data gaps in the area near the Hangers A, B, K, and M. Data gaps remain at the depth 0026_MW030 targeted (screened between 20.5 – 23.5 m bgl). – 0026_MW046 provides spatial resolution on groundwater chemistry to the south-west of AEC2 (former fire training area (FFTA), AEC27B (parachute training area – northern) and AEC33 (former stockpile area), and exiting the base boundary. A data gap is present in this area if 0026_MW046 is not found or replaced. – 0026_MW088 and MW112 fill in data gaps near AEC34 (Cleared disturbed water logged area) and AEC25 (AFFF spill at hanger K (Dec 2014)) – The screened intervals of the two wells overlap. 0026_MW104 had a PFOS+PFHxS concentration of 155 µg/L (discussed further in Sections 4 and 5), making it the second-highest PFAS concentration detected in groundwater on-site outside the FFTA. 0026_MW112 was likely hydraulically down or cross-gradient, while 0026_MW88 was upgradient. The absence of these wells impacts the dataset, as they could have provided insight into the presence of a plume or helped determine the location for an additional well.
An additional surface water geochemical parameter (total dissolved solids (TDS)) was recorded at most locations.	TDS can offer insight into the presence or degree of runoff or erosion within the creek catchment. TDS was recorded as the water quality meter had the appropriate probe.	The collection of additional water quality parameters has no negative impact on the surface water dataset for the site.
August 2025		
0026_SW188 location moved 200 m downstream (28079, 6127201 / 34°58'26.6"S 150°35'55.7"E)	The original location requires access from private properties along Princes Highway and Falls Road, Falls Creek, for which permission was not obtained prior to the sampling event.	Moving the 0026_SW188 sampling location 200 m downstream of the original location away from the private property is considered to have a minimal impact on the dataset, as it still allows characterisation of PFAS in the surface water of Lower Currumbene Creek.
No sample was obtained from 0026_SW186	No access, locked gate from Yalwal Road. Private property access is required.	The absence of a sample at 0026_SW186 is considered to have an impact on the dataset, access should attempt to be arranged for the next sampling event. It is noted that a sample was collected at 0026_SW004B which provides some data in the Lower Calymea Creek Sub-Catchment.
No sample was obtained from 0026_SW065	No access. Private property access is required.	The absence of a sample at 0026_SW065 is considered to have an impact on the dataset, access should attempt to be arranged for the next sampling event. It is noted that three other samples were collected within the Upper Currumbene Creek Sub-Catchment.

4.3 Data quality objectives and data validation

Data validation for the monitoring period has previously been completed and discussed within the individual sampling event reports provided in Appendix F.

The data validation procedure used to assess the field and laboratory quality assurance and quality control (QA/QC) data indicated that the reported analytical results are representative of the sample locations. Additionally, the overall quality of the analytical data produced is acceptably reliable for the purposes of this report.

All data collected during these events has been reviewed and uploaded to the Defence ESdat database in accordance with Defence Contamination Management Manual (DCMM) requirements.

4.4 Data assessment methodology

4.4.1 Data assessment process

This site has been through various stages of contamination assessment, including a DSI (Aurecon, 2017) and the HHERA (EnRiskS, 2017) and HHERA Addendum (EnRiskS, 2018), to further assess potential risks to receptors. Both the HHERA and the HHERA Addendum identified potentially unacceptable risk to human and ecological receptors for some exposure pathways, which form the basis of the site's risk profile, and which are now managed under the site PMAP (Defence, 2019). Therefore, the overall objective of the OMP and this report is to assess for potential changes in the site's 'risk profile' in relation to PFAS (noting that objectives are defined in Section 1.1). Changes in the site risk profile may indicate that a revision of the PMAP is required.

To assess potential changes in PFAS risk profile at the site, data collected as part of the OMP and evaluated in this report will be assessed using the following approach, which is also displayed graphically in Diagram 2:

- Monitoring locations were categorised into sub-catchments based on location and classified as representative of either PFAS 'source' zones (i.e. AECs), 'pathways', or 'receptor' environments. This is referred to as the 'SPR classification'. Location classifications are outlined in Section 4.4.2.
- Locations categorised as 'source' will not be assessed in detail, as the intention of monitoring source areas is to benchmark source conditions should a 'pathway' or 'receptor' assessment be required.
- Data associated with 'pathway' and 'receptor' locations will be assessed using trend analysis considered against adopted performance measures (comprised of screening criteria and assessment triggers, as per Section 5).
- Assessment of potential receptor exposure pathways will be conducted based on whether risks have been previously identified or not.
- An assessment of concentration trends and performance measures will be adopted. Where an individual location is identified as exceeding the performance measure, further assessment will be undertaken of that location as part of wider catchment area.

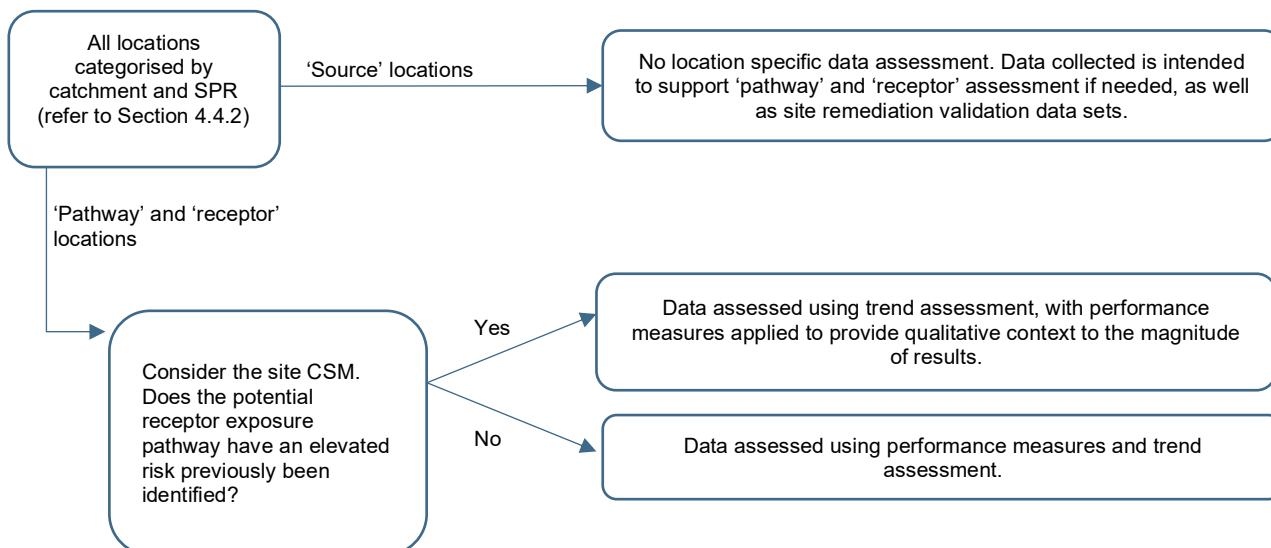


Diagram 2 Flow chart showing the decision process for the application of performance criteria

Performance measures are defined in Section 0. Performance measures will only be adopted to provide qualitative context to the results obtained, and trend assessment will be the primary method for assessing potential change to the site's 'risk profile'.

Trend assessment is a consideration of analytical results over time (using current monitoring data and historical data for those locations), to indicate potential changes in the site's 'risk profile'. Trend assessment will be undertaken using two analytical strategies, applied as per the following:

1. Linear line of best fit on time series graphs on all monitoring locations, using an R squared value¹ to indicate statistical significance of a potential upwards or downwards trend. This method will also highlight new maximum (or minimum) concentrations in a data set that may warrant further, individual consideration.
 - Any R squared value greater than or equal to 0.70 was determined to indicate a strong linear association (ANZG, 2018), while R squared values less than 0.3 were considered to have negligible correlation.
 - The maximum concentration of duplicate pairs will be used, and where the result is <LOR, the value of the LOR will be adopted.
 - The validity of the R squared value will be assessed, considering factors such as number of samples available at that location, and the number of LOR results. Where there are a low number of samples (one or two) and/or where the majority of samples were less than or equal to a consistent LOR, a high R squared value would be calculated. This is considered to be invalid, and the location will be discounted from further assessment.
 - If the location is determined to have a valid, linear association (≥ 0.7), the trend direction (upwards, downwards or flat) will be visually assessed.
2. Box and whisker plots for further assessment of selected locations in the context of their catchment, with data grouped by SPR classification. The most recent data will be compared to the historical data set for the catchment, to indicate if there are potential changes occurring within the catchment SPR zones, or if new data is within historical statistical parameters.
3. The assessment of results in this OMR focuses on PFHxS+PFOS sum (particularly for trend analysis), as these are the most dominate species for the site and there is applicable screening criteria. PFOS, PFOA, PFBS, and PFHxS have also been considered as individual analytes given that these analytes also have applicable screening criteria.

¹ The R squared value, also known as the coefficient of determination, is a statistical measure that represents the proportion of the variance for a dependent variable that's explained by an independent variable. It ranges from 0 to 1, where 1 indicates a perfect fit of the model to the data. In this case where a linear line of best fit is being applied to chemical concentration data over time, the R squared value is indicating what proportion of the data is represented by the line of best fit. Where there is a poor correlation, we can say there is no linear trend in the data set.

4.4.2 Location classifications

For the purpose of assessing trends within each sub-catchment, locations were classified into surface water sub-catchment areas, and as either 'source', 'pathway' or 'receptor' (SPR) based on their location and intended monitoring purpose. Table 5 shows the classifications with the 'source' being locations on-site, pathways in channels leading from site and receptors being located on private properties sampled during this monitoring period:

Table 5 Location classifications

Catchment	Water type	Source	Pathway	Receptor
Braidwood Road Drain	Surface water	SW018	SW007 SW020 SW124	SW005 SW006
	Groundwater	MW001 MW002 MW012 MW012P	MW018 MW044	MW024 MW031
Flat Rock Creek	Surface water	-	-	SW002
	Groundwater	-	-	MW004
Cabbage Tree Creek	Surface water	-	-	SW001 SW187
	Groundwater	-	-	MW072 MW073
Currambene Creek	Surface water	-	SW008 SW049 SW185	SW065 SW188
	Groundwater	MW005 MW029 MW104 MW117 MW213	MW030 ¹ MW038	MW003 MW026
Yerriyong Gully	Surface water	SW009 SW106	SW012 SW123	-
	Groundwater	MW006 MW008 MW009 MW009P MW015 MW016 MW017 MW045 MW046 ¹	MW039	-
Parma Creek	Surface water	-	-	SW013 SW014
Lower Calymea Creek	Surface water	-	-	SW004B

¹ Locations with historical PFAS data but not sampled during monitoring period.

5. Performance measures

To determine if PFAS concentrations associated with a potential exposure pathway and/or receptor environment represents an unacceptable risk to receptors such that further investigation and/or management is required, the results representative of that pathway/receptor need to be compared to a performance measure. Performance measures designed to monitor the environmental impacts have been assigned on the basis of the following definitions:

- Screening criteria (Section 5.1): a public quality standard provided in guidance documents that is identified as being appropriate to a contaminant for a specified receptor in order to assess the potential for an unacceptable risk to that receptor. Exceedance of the nominated screening criteria indicates that a potentially unacceptable risk may be present, and that further investigation may be required. It does not equate to a remediation trigger. The published screening criteria are generated based on a broad set of assumptions, which can be assessed in further detail to adjust the screening criteria to site specific criteria (if required).
- Assessment triggers (Section 5.2): a project specific criterion applied to assess whether there have been possible adverse trends in risk. This can be a quantitative trigger (e.g. numeric value compared to analytical results) or a qualitative trigger (e.g. change in land use), based on previous assessment outcomes.
- The adopted performance measures are based on the site's CSM.

5.1 PFAS screening criteria – Tier 1

The following guidance documents have been used to assess the data:

- Department of Health (DoH) (2017). Health Based Guidelines Values for PFAS for use in site investigation in Australia. This document is based on the works undertaken by Food Standards Australia New Zealand (FSANZ) in 2017 (FSANZ, 2017).
- Heads of EPAs Australia and New Zealand (HEPA) (2025). PFAS National Environmental Management Plan (NEMP), Version 3.0.
- National Environment Protection Council (NEPC) (1999) (amended 2013). National Environment Protection (Assessment of Site Contamination) Amendment Measure (NEPM) (No. 1).
- National Health and Medical Research Council (NHMRC) (2011), Australian Drinking Water Guidelines (ADWG) Paper 6 National Water Quality Management Strategy, updated June 2025, version 4.0.
- National Health and Medical Research Council (NHMRC) (2019). Guidance on PFAS in Recreational Water. August 2019.

The adopted screening criteria to assess the PFAS data in this monitoring program for human health and ecological receptors, as per the OMP (Defence, 2019) are presented in Table 6 and Table 7 respectively.

The PMAP (Defence, 2019) notes that whilst groundwater is unlikely to be used as drinking water or for stock watering, drinking water criteria should still be applied to assess impacts on potential future users of groundwater.

Table 6 Summary of adopted screening criteria for human health receptors

Media	Pathway	Compound(s)	Criteria	Comment/Reference
Groundwater	Drinking water	PFOS	0.008 µg/L	NHMRC (2011) Australian Drinking Water Guidelines, updated June 2025, version 4.0. <i>It is noted that the LOR for PFOS is higher than the adopted criterion.</i>
		PFHxS	0.03 µg/L	
		PFBS	1 µg/L	
		PFOA	0.2 µg/L	
Surface water and groundwater	Recreational	PFOS + PFHxS	2 µg/L	NHMRC (2019). These values were adopted by the HEPA NEMP 3.0 (HEPA, 2025).
		PFOA	10 µg/L	

Table 7 Summary of adopted screening criteria for ecological receptors

Media	Pathway	Compound(s)	Criteria	Comment/Reference
Groundwater and surface water	Fresh water	PFOS + PFHxS	0.00023 µg/L	The values are from the PFAS NEMP (HEPA, 2025) which endorsed the Australian and New Zealand Guidelines for Fresh and Marine Water Quality (ANZG, 2018). The 99% species protection level has been applied for high value conservation systems. This approach is <i>generally adopted for chemicals that bioaccumulate and biomagnify in wildlife. It is proposed that the laboratory LOR is adopted for the purposes of preliminary screening of analytical water results, rather than sole use of the criteria value.</i>
		PFOA	19 µg/L	

5.2 Data evaluation

To assess potential changes in PFAS risk profile at the site, data collected as part of the OMP is evaluated. Prior to the evaluation, an understanding of first-time detection of PFAS at locations and whether the PFAS concentrations are greater than historical maximum for a location is undertaken. The data evaluation in this report will be assessed using two components:

1. A Tier 1 criteria assessment – consideration of analytical results against published, generic assessment criteria protective of defined receptors. An exceedance of the adopted criteria does not necessarily indicate risk, but indicates that further consideration is required. The objective of applying Tier 1 criteria is to screen if an exceedance at a given location has occurred (i.e. are there any new potential source-pathway-receptor linkages that may not have been considered in the HHERA and HHERA addendum).
2. Trend analysis – consideration of analytical results over time (current monitoring data and historical data for those locations), to indicate potential change in the site status. This will be undertaken using two analytical strategies:
 - a. Linear line of best fit on time series graphs; For locations with a potentially significant linear trend and/or new maximum concentrations, the Tier 1 assessment criteria (outlined in component 1 above) will also be considered to provide context to the magnitude of the concentrations being assessed.
 - b. Box and whisker plots; The most recent data collected during this monitoring period will be compared to the historical data set for the sub-catchment, to indicate if there are potential changes occurring within the sub-catchment SPR zones, or if new data is within historical statistical parameters.

If there are discernible increasing trends or a change to the sub-catchment population data, including consideration of Tier 1 assessment exceedances, initial OMP ‘trigger’ responses will be undertaken, which are:

- Undertake a semi-qualitative climate assessment to determine if climatic changes are accountable for or related to the observed changes.
- Undertake individual location assessment to determine if the changes observed in individual locations are significant enough to warrant further investigation.
- If climatic circumstances are determined not to be related to the changes, or individual locations are shown to be significantly changing, further action as per the OMP will be triggered and undertaken (secondary OMP trigger responses) as detailed in Table B2, Appendix B.

6. Results and other data

As part of the OMP, the following two scheduled monitoring events were completed the monitoring period:

- 11 to 13 February 2025 by GHD (2025a) (which includes groundwater and surface water).
- 28 and 29 August 2025 by GHD (2025b) (surface water only).

The sample locations are shown on Figure A3, Appendix A. Results are summarised in the following sections and Figures A4 and A5, Appendix A (groundwater) and Figure A6 to Figure A9, Appendix A (surface water). Groundwater elevations are shown on Figure A10, Appendix A.

The monitoring and analytical results from the February and August 2025 monitoring events are provided in Tables C1 to C6 in Appendix C.

In addition to the OMP data, GHD has included the data collected during ad-hoc sampling events within the monitoring period at OMP locations, and historical data that is available in the Defence ESdat database in this assessment.

6.1 Groundwater results

6.1.1 Field observations and parameters

Field observations and water quality parameters from the February 2025 monitoring event (GHD, 2025a) are provided in Table C1, Appendix C and are summarised below:

- Ongoing infrastructure projects and construction works were observed during the monitoring event as outlined in Section 3.2.
- Monitoring wells were observed to be in good and useable condition, with the exception of the following:
 - MW003: Hinge connecting lid and monument was observed to be rusted.
 - MW024: Monument and well cap replaced.
 - MW117: Monument and standpipe bent. Standpipe sawed down by 50 mm and well cap replaced.
- No visible signs of contamination in groundwater were observed at the locations sampled (i.e. no sheen, staining, or foaming present) with the exception of MW026 and MW072 where bubbles and surface foam was observed within the sample bottles.
- Three locations (MW009, MW026 and MW029) had low to distinct organic/decaying organics odours. No other odours noted for any other groundwater locations.
- Groundwater field quality parameters:
 - Dissolved oxygen ranged from 0.66 mg/L (MW009) to 4.09 mg/L (MW104) indicating poorly oxygenated conditions.
 - Electrical conductivity ranged from 172.4 $\mu\text{S}/\text{cm}$ (MW009P) to 16,205 $\mu\text{S}/\text{cm}$ (MW031) indicating freshwater to brackish conditions.
 - pH ranged from 4.47 (MW017) to 7.08 (MW004) indicating acidic to neutral conditions.
 - Redox generally ranged from 4.8 mV (MW026) to 565 mV (MW002) indicating low oxidising to oxidising conditions. A redox value of -66.9 mV as recorded at MW005, indicating reducing conditions at that location.
 - Temperature ranged from 17.1 °C (MW026) to 23.1 °C (MW213).

6.1.2 Elevations and flow direction

Depth to groundwater ranged from 0.27 (MW012) and 13.775 (MW003) metres below top of casing (mbTOC). Groundwater elevation ranged between 26.25 (MW026) and 140.07 (MW004) metres Australian Height Datum (mAHD).

Inferred groundwater contours and groundwater flow direction for the upper aquifer based on field data from the latest sampling event are shown on Figure A10, Appendix A. Two groundwater monitoring wells (MW009P and MW012P) were omitted from the contour plan as they are screened within a perched aquifer.

The groundwater flow direction is divided across the site, aligning roughly with the following surface water catchments pathways (refer Table 1):

- Shoalhaven River Basin – Northwestern portion of site. Groundwater in this catchment flows generally to the north and north-east.
- Clyde River Basin – Southern and Eastern portion of the site. Groundwater in this catchment flows generally to the south and south-east.

This finding is largely consistent with those from OMP Sampling Event Reports for groundwater sampling events from 2020 to 2024.

6.1.3 Analytical results

Groundwater analytical results from the February 2025 monitoring round are presented in Table C2, Appendix C. The spatial distribution of PFOS+PFHxS and PFOA in February 2025 groundwater results are presented in Figures A4 and A5, Appendix C. Historical groundwater analytical results are presented in Table C3, Appendix C. Table C3 also includes results from MW104, sampled in May 2025 as part of a separate sampling program.

The groundwater samples were collected from 28 groundwater wells in February 2025, with MW104 resampled in May 2025 to confirm results.

Historical groundwater concentrations of PFOA and Sum of PFOS+PFHxS have been displayed graphically on trend graphs by sub-catchment areas in Appendix D. The sub-catchment area groups and associated graphs are outlined in Table 8.

Table 8 Overview of trend graphs for groundwater locations

Graph ID	Sub-Catchment	Groundwater wells	PFAS Compounds
Graph 1a	Braidwood Road Drain	MW001, MW002, MW012, MW018, MW024, MW031, MW044	PFOA
Graph 1b			Sum of PFOS+PFHxS
Graph 1c			PFBS
Graph 2a	Cabbage Tree Creek	MW072, MW073	PFOA
Graph 2b			Sum of PFOS+PFHxS
Graph 2c			PFBS
Graph 3a	Flat Rock Creek	MW004	PFOA
Graph 3b			Sum of PFOS+PFHxS
Graph 3c			PFBS
Graph 4a	Upper Currumbene Creek	MW003, MW005, MW026, MW029, MW038, MW104, MW117, MW213	PFOA
Graph 4b			Sum of PFOS+PFHxS
Graph 4c			PFBS
Graph 5a	Yerriyong Gully	MW006, MW008, MW009, MW015, MW016, MW017, MW039, MW045, MW046	PFOA
Graph 5b			Sum of PFOS+PFHxS
Graph 5c			PFBS
Graph 6a	Perched Aquifer	MW009P, MW012P	PFOA
Graph 6b			Sum of PFOS+PFHxS
Graph 6c			PFBS

A summary of groundwater results from February 2024 is provided in Table 9 below.

Three source area locations (MW104, MW117 and MW213) recorded first-time detections for PFOS+PFHxS, PFOS, PFOA, and PFBS, new exceedances of the adopted screening criteria, and new historical maximums due to this being the first time these locations were sampled event. These locations were added to the OMP sampling event as they are located nearby/adjacent to the source area AEC34 (MW104, MW213) and to fill in data gaps in PFAS concentrations in groundwater near the hangars (MW117).

MW038 (pathway area location), a new historical maximum for PFBS; however, the result was within the margin of error of the next closest result.

MW009 (source area location) recorded a new historical maximum, approximately 2.5 times the previously recorded maximum (in February 2021) at the location. MW017 (source area location) recorded a new historical maximum for PFOS and PFOA, with results within the same order of magnitude.

No other first-time detections of PFOS+PFHxS, PFOS and/or PFOA, new exceedances of the adopted human health or ecological criteria, or new historical maximums were reported for groundwater.

MW104 was resampled in May 2025 to confirm results from the February 2025 sampling event.

Table 9 Summary of PFAS compounds Concentrations in Groundwater

Monitoring Event	No. of samples	PFAS compound	Results (Highest conc location)	First time detections of PFOS+PFHxS, PFOS, PFOA, or PFBS?	New exceedance of human health criteria?	New exceedance of ecological criteria?	New historical maximum
Braidwood Road drain sub-catchment (on-site MW001, MW002, MW012); Off-site MW018, MW024, MW031, and MW044)							
February 2025	7 primary and 4 duplicates	PFOA	<LOR	No	No	No	No
		PFOS	<LOR – 0.45 µg/L (MW024)	No	No	No	No
		PFOS+PFHxS	<LOR – 0.56 µg/L (MW024)	No	No	No	No
		PFBS	<LOR – 0.11 µg/L (MW031)	No	No	NA	No
Cabbage Tree Creek sub-catchment (Off-site MW072 and MW073)							
February 2025	2 primary	PFOA	<LOR	No	No	No	No
		PFOS	<LOR	No	No	No	No
		PFOS+PFHxS	<LOR	No	No	No	No
		PFBS	<LOR	No	No	NA	No
Flat Rock Creek sub-catchment (On-site MW004)							
February 2025	1 primary	PFOA	<LOR	No	No	No	No
		PFOS	<LOR	No	No	No	No
		PFOS+PFHxS	<LOR	No	No	No	No
		PFBS	<LOR	No	No	NA	No
Upper Currumbene Creek sub-catchment (On-site MW005, MW0029, MW038, MW104, MW117, MW213; Off-site MW003, and MW026)							
February 2025 and May 2025 ¹	8 primary 2 duplicates	PFOA	<LOR – 7.78 µg/L (MW104 ¹)	Yes – MW104 ¹ , MW117, MW213	Yes – MW104 ¹	No	Yes – MW104 ¹ , MW117, MW213
		PFOS	<LOR – 176 µg/L (MW104 ¹)	Yes – MW104 ¹ , MW117, MW213	Yes – MW104 ¹ , MW117, MW213	Yes – MW104, MW117, MW213	Yes – MW104 ¹ , MW117, MW213
		PFOS+PFHxS	<LOR – 270 µg/L (MW104 ¹)	Yes – MW104 ¹ , MW117, MW213	Yes – MW104 ¹ , MW117, MW213	No	Yes – MW104 ¹ , MW117, MW213

Monitoring Event	No. of samples	PFAS compound	Results (Highest conc location)	First time detections of PFOS+PFHxS, PFOS, PFOA, or PFBS?	New exceedance of human health criteria?	New exceedance of ecological criteria?	New historical maximum
		PFBS	<LOR – 10.3 µg/L (MW104)	Yes – MW104 ¹ , MW117, MW213	Yes – MW104 ¹	NA	Yes – MW038, MW104 ¹ , MW117, MW213
Yerriyong Gully sub-catchment (On-site MW006, MW008, MW009, MW015, MW016, MW017, MW039, and MW045)							
February 2025	8 primary and 2 duplicates	PFOA	<LOR – 7.6 µg/L (MW009)	No	No	No	Yes – MW009, MW017
		PFOS	<LOR – 94.5 µg/L (MW009)	No	No	No	Yes – MW009, MW017
		PFOS+PFHxS	<LOR – 141 µg/L (MW009)	No	No	No	Yes – MW009
		PFBS	<LOR – 8.60 µg/L (MW009)	No	No	NA	No
Braidwood Road drain sub-catchment – perched aquifer (On-site MW012P)							
February 2025	1 primary	PFOA	<LOR	No	No	No	No
		PFOS	0.10 µg/L	No	No	No	No
		PFOS+PFHxS	0.11 µg/L	No	No	No	No
		PFBS	<LOR	No	No	NA	No
Yerriyong Gully sub-catchment – perched aquifer (On-site MW009P)							
February 2025	1 primary	PFOA	7.04 µg/L	No	No	No	No
		PFOS	173 µg/L	No	No	No	No
		PFOS+PFHxS	213 µg/L	No	No	No	No
		PFBS	4.66 µg/L	No	No	NA	No

¹ Following this event, MW104 was resampled in May 2025 to confirm results (refer Section 7).

6.2 Surface water results

6.2.1 Field observations and parameters

Field observations and water quality parameters from the February and August 2025 monitoring events (GHD, 2025a; GHD, 2025b) are provided in Table C2, Appendix C and are summarised below:

- Ongoing infrastructure projects and construction works were observed during the monitoring event as outlined in Section 3.2.
- During the February 2025 monitoring event:
 - Locations SW005 and SW006 were noted to have foam or bubbles on the surface of the water and a slight decaying organic odour was noted at the surface water location SW009. Naturally occurring sheens or organic films were noted at SW002, SW007 and SW124. No odours or sheen were noted at any other location.
 - Twelve locations were observed to be flowing. The six locations where water was not observed to be flowing included SW001, SW007, SW009, SW018, SW123 and SW124.
 - Surface water quality parameters indicated:
 - Dissolved oxygen ranged from 1.34 mg/L (SW002) to 10.69 mg/L (SW009) indicating poor to well oxygenated conditions.
 - Electrical conductivity ranged from 117.7 µS/cm (SW020) to 716 µS/cm (SW124) indicating freshwater conditions.
 - pH generally ranged from 6.26 (SW106) to 7.97 (SW013) indicating neutral to slightly alkaline conditions. SW009 located at the effluent storage dam was an outlier and recorded an alkaline pH of 9.21.
 - Redox ranged from 132.2 mV (SW002) to 540.1 mV (SW020) indicating low oxidising to oxidising conditions.
 - Temperature ranged from 19.4 °C (SW049) to 29.3 °C (SW018).
 - TDS ranged from 122.9 (SW020) and 454 (SW106) indicating low to moderate concentrations of dissolved solids at sampling locations across the site.
- During the August 2025 monitoring event:
 - Foam was observed at SW005 and SW006, consistent with historic observations, and brittle bacteria sheens were observed at SW002 and SW007, with suspected algae particles also noted at SW007. No odours were noted at any location.
 - 15 locations were observed to be flowing and ranged from fast to slow. Four locations were observed to have no flow (SW007, SW009, SW018, SW123).
- Surface water quality parameters indicated:
 - Dissolved oxygen ranged from 5.82 mg/L (SW007) to 33.50 mg/L (SW049).
 - Electrical conductivity ranged from 61.3 µS/cm (SW004B) to 989.0 µS/cm (SW124), indicating freshwater conditions.
 - pH ranged from 6.50 (SW007) to 7.78 (SW124), indicating slightly acidic to slightly alkaline conditions.
 - Redox ranged from 49.6 mV (SW007) to 135.5 mV (SW018), indicating mildly oxidising conditions.
 - Temperatures were cool and ranged from 9.4 °C (SW018) to 14.0 °C (SW124).
 - TDS ranged from 53.30 mg/L (SW004B) to 812.50 mg/L (SW124), indicating a wide range of concentrations of dissolved solids at sampling locations across the site.

6.2.2 Analytical results

Surface water analytical results from the February 2025 and August 2025 monitoring rounds are presented in Table C5 and Table C5, Appendix C.

The spatial distribution of PFOA and PFOS+PFHxS in February and August 2025 surface water results is presented in Figures A6 to A9, Appendix C. Historical surface water analytical results are presented in Table C6, Appendix C. Table C6 also includes results from SW049 and SW185 in July 2025 which were sampled as part of a separate sampling program.

During the February 2025 event, samples were collected at 18 locations. During the August 2025 monitoring event, samples were collected from 19 locations.

Historical surface water concentrations of PFOA and PFOS+PFHxS have been displayed graphically on trend graphs by sub-catchment areas in Appendix D. The sub-catchment area groups and associated graphs are outlined in Table 10.

Table 10 Overview of trend graphs for surface water locations

Graph ID	Sub-catchment	Surface water locations	PFAS Compound
Graph 7a	Cabbage Tree Creek (SW001, SW187)	SW001 ¹	PFOA
Graph 7b	Flat Rock Creek (SW002)	SW002 ^{1, 2} SW187 ²	PFOS+PFHxS
Graph 8a	Braidwood Road drain (SW005, SW006, SW007, SW018, SW020, SW124)	SW004B ^{1, 2} SW005 ^{1, 2} SW006 ^{1, 2}	PFOA
Graph 8b	Lower Calymea Creek (SW004B)	SW007 ^{1, 2} SW018 ^{1, 2} SW020 ^{1, 2} SW124 ^{1, 2}	PFOS+PFHxS
Graph 9a	Currumbene Creek (SW008, SW049, SW065, SW185, SW188) Yerriyong Gully (SW009, SW012, SW106, SW123) Parma Creek (SW013, SW014)	SW008 ^{1, 2} SW009 ^{1, 2} SW012 ² SW013 ² SW014 ² SW106 ^{1, 2} SW123 ^{1, 2} SW049 ^{1, 2} SW065 ¹ SW185 ² SW188 ²	PFOA
Graph 9b			PFOS+PFHxS

¹ Sampled February 2025

² Sampled August 2025

A summary of surface water results from the February and August 2025 monitoring events is provided in Table 11 below. In summary:

– February 2025:

- Three locations (SW106 (source location), SW123 (pathway location), SW124 (pathway location)) were sampled for the first time in February 2025 and therefore recorded first time detections, as well as exceedances of the adopted screening criteria, and provide a baseline for further monitoring.
- SW049 (source location) and SW065 (receptor location) recorded new historical maximums.
 - SW049 recorded PFAS concentrations approximately one order of magnitude higher than the previously recorded maximum (when previously monitored in 2016).
 - SW065 recorded a concentration within the same order of magnitude as the previously recorded maximum for the location (in November 2021).
- No other first-time detections of PFOS+PFHxS, PFOS and/or PFOA, new exceedances of the adopted human health or ecological criteria, or new historical maximums were reported for surface water.

- July 2025:
 - SW049 and SW185 (Upper Currumbene Creek, pathway locations) were sampled as part of an ad-hoc sampling event (refer Section 3.1.2).
 - SW185 was sampled for the first time and recorded first time detections, as well as exceedances of the adopted ecological screening criteria, providing a baseline for further monitoring.
- August 2025:
 - Two locations (SW187 and SW188 (receptor locations)) were sampled for the first time in August 2025 and therefore recorded first time detections, as well as exceedances of the adopted screening criteria, and provide a baseline for further monitoring.
 - Five locations (SW106 (a source location) and SW049), SW123, SW124 and SW185 (pathway locations)) recorded new historical maximums. It is noted that SW123, SW124, and SW185 were sampled for the second time as part of this sampling event. SW123 and SW124 were sampled for the first time in February 2025 as part of the OMP and SW185 was sampled for the first time in July 2025 as part of an ad-hoc sampling event.
 - SW049 also recorded a new exceedance of the adopted human health criteria.
 - No other first-time detections of PFOS+PFHxS, PFOS and/or PFOA, new exceedances of the adopted human health or ecological criteria, or new historical maximums were reported for surface water.

Table 11 Summary of PFAS compounds concentrations in surface water

Monitoring Event	No of samples	PFAS compound	Results (highest conc location)	First time detections of PFOS+PFHxS, PFOS or PFOA?	New exceedance of human health criteria?	New exceedance of ecological criteria?	New historical maximum
Braidwood Road drain sub-catchment and Lower Calymea Creek (on-site SW007, SW018; off-site SW004B, SW005, SW006, SW020, and SW124)							
February 2025	7 primary	PFOA	<0.10 – 0.50 µg/L (SW018)	Yes – SW124	No	No	Yes – SW124
		PFOS	0.62 – 7.90 µg/L (SW018)	Yes – SW124	Yes – SW124	Yes – SW124	Yes – SW124
		PFOS+PFHxS	0.43 – 14.2 µg/L (SW018)	Yes – SW124	Yes – SW124	No	Yes – SW124
August 2025	7 primary 4 duplicates	PFOA	<LOR - 0.43 µg/L (SW124)	No	No	No	No
		PFOS	0.13 – 8.60 µg/L (SW124)	No	No	No	Yes – SW124
		PFOS+PFHxS	0.22 – 18.6 µg/L (SW124)	No	No	No	Yes – SW124
Flat Rock Creek and Cabbage Tree Creek sub-catchments (offsite SW001, SW002, SW187)							
February 2025	2 primary	PFOA	<LOR	No	No	No	No
		PFOS	0.02 µg/L (SW001, SW002)	No	No	No	No
		PFOS+PFHxS	0.02 µg/L (SW001, SW002)	No	No	No	No
August 2025	2 primary	PFOA	<LOR	No	No	No	No
		PFOS	0.01 – 0.16 µg/L (SW187)	Yes – SW187	No	No	Yes – SW187
		PFOS+PFHxS	0.03 – 0.25 µg/L (SW187)	Yes – SW187	No	No	Yes – SW187
Currumbene Creek and Yerriyong Gully, and Parma Creek sub-catchments (on-site SW008, SW009, SW012, SW049, SW106, SW123, and SW185; off-site SW013, SW014, SW065, and SW188)							
February 2025	9 primary 2 duplicates	PFOA	<LOR – 0.24 µg/L (SW106)	Yes – SW106, SW123	No	No	Yes – SW049, SW065, SW106, SW123
		PFOS	<LOR – 5.13 µg/L (SW106)	Yes – SW106, SW123	Yes – SW106	Yes – SW106, SW123	Yes – SW049, SW065, SW106, SW123
		PFOS+PFHxS	<LOR – 9.53 µg/L (SW106)	Yes – SW106, SW123	Yes – SW106	No	Yes – SW049, SW065, SW106, SW123
July 2025	2 primary	PFOA	0.02 – 0.03 µg/L (SW185)	Yes – SW185	No	Yes – SW185	Yes – SW185
		PFOS	0.60 – 0.61 µg/L (SW049)	Yes – SW185	No	Yes – SW185	Yes – SW185
		PFOS+PFHxS	1.05 – 1.08 µg/L (SW049)	Yes – SW185	No	Yes – SW185	Yes – SW185

Monitoring Event	No of samples	PFAS compound	Results (highest conc location)	First time detections of PFOS+PFHxS, PFOS or PFOA?	New exceedance of human health criteria?	New exceedance of ecological criteria?	New historical maximum
August 2025	10 primary	PFOA	<LOR – 0.24 µg/L (SW106)	Yes – SW188	No	No	Yes – SW049, SW185
		PFOS	<LOR – 11.4 µg/L (SW106)	Yes – SW188	No	No	Yes – SW049, SW106, SW123, SW185
		PFOS+PFHxS	<LOR – 15.3 µg/L (SW106)	Yes – SW188	Yes – SW049, SW185	No	Yes – SW049, SW106, SW123, SW185

7. Interpretation and discussion

7.1 Summary of trend assessment approach

Time series graphs for PFAS concentrations for groundwater and surface water in all sub-catchment areas were produced as part of this report. The linear line of best fit was then applied to each location data set and an R squared value calculated (as outlined in Section 4.4.1) for the four primary PFAS compounds (PFOA, PFOS, PFOS+PFHxS, and PFBS).

For the purpose of this assessment, the maximum concentration and the date it occurred was considered. If the newest sample had the highest concentration, this was identified as a “new maximum”. The concentrations at that location were then assessed for any trends. Previous sampling reports for February and August 2025 highlight these new maximums (provided in Appendix F). The “new maximums” in these reports can be superseded by new data. It is important to note that even if a location wasn’t sampled in 2025, the most recent maximum concentration remains relevant for evaluating changes.

If a new maximum at an OMP monitoring location occurred during an ad-hoc sampling event this result would not have been highlighted in the sampling event reports.

R squared calculations and the maximum value results are provided in Appendix G.

7.2 Groundwater level

The measured groundwater levels collected during the current monitoring period are provided in Table C1, Appendix C, and the groundwater contour plan is provided in Figure A10, Appendix A.

- The groundwater levels within the Braidwood Road drain sub-catchment were on average 7 cm lower than the previous monitoring period (GHD, 2025e).
- The groundwater levels within Flat Rock Creek sub-catchment were on average 4 cm lower than the previous monitoring period.
- The groundwater levels within Cabbage Tree Creek sub-catchment were on average 24 cm lower than the previous monitoring period.
- The groundwater levels within Yerriyong Gully sub-catchment were on average 30 cm higher than the previous monitoring period.
- The average of groundwater levels within the Upper Currumbene sub-catchment was 5 m higher than the previous monitoring period. However, data from the current monitoring period includes four wells not monitored during the previous monitoring period (MW030, MW104, MW117, and MW213) which skews the dataset. When excluding those wells, average groundwater levels within Upper Currumbene were 38 cm higher than the previous monitoring period.

All the sub-catchments decreased in average groundwater levels with the exception of the Yerriyong Gully and Upper Currumbene sub-catchments. These sub-catchments may be more responsive to rainfall, with 18 mm falling in the 48 hours prior to sampling.

The perched groundwater levels are more responsive to rainfall than the Berry siltstone aquifer, and therefore no interpretation has been conducted.

7.3 Groundwater analytical results

The February 2025 groundwater results for PFOS+PFHxS and PFOA are shown on Figures A4 and A5, Appendix A, with all historical and current results provided in Table C3, Appendix C. The data has been used to evaluate the extent of PFAS contamination associated with source areas and to compare the current monitoring period to the previous periods.

7.3.1 Groundwater physicochemical parameters

The water quality parameters (pH, DO, EC, redox) reported in February 2025 event were within previous data ranges and representative of the Berry siltstone aquifer and the perched groundwater, with the exception of the following:

- pH:
 - MW006, MW017, MW029, and MW031 recorded new minimum pH values outside the historical range, with concentrations ranging from 4.47 pH (0026_MW017) to 6.57 pH (0026_MW029).
 - A pH of 11.16 was recorded at MW001 during the February 2024 monitoring event (where it was reported as potentially anomalous). During the February 2025 event, the pH at MW001 was within the historical range of results.
- Dissolved oxygen:
 - MW029, MW038, MW044, and MW073 recorded DO values outside the historical range, however, the closest results were within one order of magnitude of the previous highest result.
- Redox:
 - 21 locations recorded redox values higher than the historical range, with all locations within one order of magnitude of the next highest historical result. Redox concentrations were similarly higher in surface water locations during the same monitoring period, suggesting a potential issue with the water quality meter (refer Section 7.4.1).
- Electrical conductivity:
 - MW003, MW012P, MW039, MW045, and MW046 recorded EC values higher than the historical range. The results were within one order of magnitude of the next closest historical result.
 - MW012 and MW104 were lower than the historical range, however, the results were within one order of magnitude of the next closest historical result.

7.3.2 PFAS extent in groundwater

A summary of the PFAS concentrations in groundwater by sub-catchment is provided below, noting that for PFOS the LOR has been used instead of the adopted drinking water criterion value:

- **Braidwood Road drain:** Within the Berry siltstone and perched aquifer, there were no new detections, new maximums, or no new exceedances of the ecological and human health screening criteria.
 - PFOS+PFHxS:
 - Concentrations at MW002 (source), MW012 (source), MW018 (pathway), MW024 (receptor), and MW044 (pathway) have increased since the previous monitoring event but remain below the adopted recreational criterion.
 - Concentrations at all locations are above the adopted ecological criterion.
 - Drinking water criteria:
 - Concentrations at all locations with the exception of MW031 (receptor) are above the LOR for PFOS.
 - Concentrations of PFHxS were above the adopted drinking water criterion at MW001 (source), MW012 (source), MW044 (pathway), MW024 (pathway), and MW031 (receptor).
 - Concentrations of PFBS or PFOA were below the adopted drinking water criterion.
 - PFOA concentrations at all locations have remained at or below the LOR (0.01 µg/L).
- **Cabbage Tree Creek:** Concentrations of PFOA, PFOS, PFOS+PFHxS, and PFBS within the Berry siltstone aquifer were below laboratory LOR in the locations during the monitoring period, consistent with historical data.
- **Flat Rock Creek:** Concentrations of PFOA, PFOS, PFOS+PFHxS, and PFBS within the Berry siltstone aquifer were below the laboratory LOR in the location sampled during the monitoring period, consistent with historical data.

- **Upper Currumbene Creek:** Concentrations of PFOA, PFOS and PFOS+PFHxS within the Berry siltstone aquifer were either below the laboratory LOR, or within the historical range, at the locations sampled:
 - PFOS+PFHxS:
 - Concentrations at MW026 (receptor), MW029 (source) have increased since the previous monitoring period.
 - Concentrations at MW005 (source), MW026 (receptor), and MW213 (source) are above the adopted recreational criterion.
 - Concentrations at all locations with the exception of MW018 (pathway) (non-detect) were above the adopted ecological criterion.
 - Source area samples collected from new monitoring locations (MW117, MW213 and MW014) reported exceedances of human health and ecological screening criteria: MW117, and MW213 were within the historical ranges of groundwater samples collected within the sub-catchment, however, MW104 recorded the highest result to date within this sub-catchment.
 - PFOA concentrations at all locations were below the adopted assessment criteria, within historical ranges, and have remained steady or have decreased since the previous monitoring period.
 - Drinking water criteria:
 - Concentrations at all locations, with the exception of MW003 (receptor), were above the LOR for PFOS.
 - Concentrations at all locations, with the exception of MW003 (receptor) and MW038 (pathway), were above the adopted drinking water criterion value for PFHxS.
 - Concentrations at MW005 (source), MW104 (source), and MW213 (source) were above the adopted drinking water criterion value for PFOA.
 - Concentrations at MW104 (source) were above the adopted drinking water criterion value for PFBS.
- **Yerriyong Gully:** New historical maximums were reported at MW009 for concentrations of PFOA, PFOS and PFOS+PFHxS, and at MW017 for PFOA and PFOS. Both are source area samples, MW009 is located at the FFTA and MW017 is located at the effluent irrigation area. All other groundwater PFAS concentrations within the Berry Siltstone and perched aquifer were within the ranges of historical data.
 - PFOS+PFHxS
 - Concentrations at all locations with the exception of MW016 (source) and MW046 (source) have increased since the last monitoring period.
 - Concentrations at all locations with the exception of MW016 (source), MW039 (pathway), MW045 (source), and MW046 (source) were above the adopted recreational criterion.
 - Concentrations at all locations with the exception of MW016 (source) (non-detect) were above the adopted ecological criterion.
 - Drinking water criteria:
 - Concentrations at all locations, with the exception of MW016 (source), were above the LOR for PFOS.
 - Concentrations at all locations, with the exception of MW016 (source) and MW039 (pathway), were above the adopted drinking water criterion value for PFHxS.
 - Concentrations at all locations, with the exception of MW016 (source), MW039 (pathway), and MW045 (source) were above the adopted drinking water criterion value for PFOA.
 - Concentrations at MW008 (source), MW009 (source), MW015 (source), MW017 (source), and MW009P (source) were above the adopted drinking water criterion value for PFBS.

The extent of PFAS impacts in groundwater are mainly consistent with that reported in the 2024 OMR (GHD, 2025e) with the exception of localised increases in PFAS concentrations above the historical maximum at MW009 at the FFTA, MW017 at the effluent irrigation area, and the sub-catchments highest concentrations at new sampling location MW104 along the eastern boundary.

7.3.3 Temporal trend analysis

Temporal trend graphs are presented in Appendix D for PFOS+PFHxS and PFOA for all groundwater wells.

Deviations from the historical dataset for groundwater were noted for the following:

- First time detections of PFAS.
- Groundwater concentrations are greater than historical maximum for a location and/or grouped concentrations do not fit in the existing population.
- Decreasing PFAS trends.

First time detections

First time detections of PFAS were recorded at MW104, MW117, and MW213. However, as this was the first time these locations have been sampled the dataset is limited and they have not been carried through to the trend assessment. First time detections of PFBS were recorded at MW038 (Currambene Creek, pathway).

New historical maximums

Groundwater well MW009 recorded concentrations of PFOA, PFOS, and PFOS+PFHxS greater than the historical maximum, MW017 recorded concentrations of PFOA and PFOS greater than the historical maximum, and MW038 recorded concentrations of PFBS greater than the historical maximum. Concentrations of PFOA, PFOS, PFOS+PFHxS at MW009, and PFOA at MW017 were above the laboratory error of 30% when compared to the previous maximum. While PFOS concentrations at MW017 were within the laboratory error of 30%, this location has been included in the performance measures as it confirms the increase in concentrations first recorded in the 2024 monitoring period.

As source areas, MW009 and MW017 do not trigger further action as part of the data evaluation process outlined in Appendix B. As the new historical maximum at MW038 is at a pathway location, an assessment of the line of best fit at MW038 is required to determine if secondary actions are required and is discussed below.

Line of best fit

The line of best fit was applied to PFOA, PFOS, PFOS+PFHxS, and PFBS at all groundwater locations and a R squared value was obtained. This information is provided in Table G1 to Table G4, and Diagram G1, Appendix G. R squared values calculated for MW009, MW017, and MW038 were all less than 0.7 and therefore the concentrations were not considered to be statistically increasing. However, it is noted that the R squared value for MW017 ranges from 0.61 to 0.69 on an increasing trend for PFAS compounds; concentrations in February 2024 and 2025 monitoring events were higher than previous monitoring events, with PFOS concentrations in 2025 greater than one order of magnitude above all results prior to 2024. It is also noted that these locations are also source locations and therefore may be variations due to increased irrigation and/or rainfall.

No strong increasing trends greater than or equal to an R squared value of 0.7 were observed; however, noting MW017 is close to this criterion.

A strong decreasing trend greater than or equal to an R squared value 0.7 was reported at MW006 (source – adjacent to STP effluent dam) for PFOS+PFHxS. A visual presentation of this trend is presented in Diagram G1, Appendix G. A near-strong decreasing trend (R squared value of 0.69) was reported at MW044 (Braidwood Road Drain sub-catchment, pathway location) for PFBS. PFBS concentrations at MW044 are presented in Appendix D.

As no trend was observed at MW038, no secondary actions are required as per Appendix B. Monitoring at this location should continue as per the OMP.

Fit within existing population

Box and whisker plots provided in Diagram G2 to Diagram G8, Appendix G, show whether the latest results fit within the existing population. The monitoring wells have been spilt into sub-catchments and within those sub-catchments into source, pathway or receptor. Noting, this data has been grouped into SPR zones within the whole sub-catchment and are not being assessed as individual results. The most recent data includes data from the February sampling event and has been compared to the historical data set for the sub-catchment. This comparison provides an indication if there are potential changes occurring within the sub-catchment SPR zones, or if new data is within historical statistical parameters.

There are no whisker and box plots for the Cabbage Tree Creek, Flat Rock Creek or perched sub-catchments as they are all single locations.

The box and whisker plots for the sub-catchments showed:

- **Braidwood Road Drain:**
 - PFOA: All the plots for PFOA indicate that the results are within the existing dataset range.
 - PFOS:
 - Source: The mean concentration has increased from 0.06 to 0.13 µg/L, however, the results are within the range of the historical data set.
 - Pathway: Results are within the range of the historical dataset.
 - Receptor: The mean has increased from 0.09 to 0.23 µg/L, however, the results are within the range of the historical dataset.
 - PFOS+PFHxS
 - Source: The mean has increased from 0.08 to 0.16 µg/L, however, the results are within the range of the historical data set.
 - Pathway: Results are within the range of the historical dataset.
 - Receptor: The mean has increased from 0.23 to 0.32 µg/L, however, the results are within the range of the historical data set.
 - PFBS:
 - Source, pathway, and receptor: Results are within the existing range of the dataset range.
- **Upper Currumbene and Yerriyong Gully:**
 - PFOA:
 - Source: Concentrations at are outside the range of the historical dataset for source locations within the sub-catchment. It is noted that MW104, MW117, and MW213 were sampled for the first time. Pathway and receptor: Results are within the existing range of the dataset range.
 - PFOS:
 - Concentrations at MW104, MW117, and MW213 which were sampled for the first time, with concentrations at MW104 outside the range of the historical dataset for source locations within the sub-catchment.
 - Pathway and receptor: Results are within the existing range of the dataset range.
 - PFOS+PFHxS:
 - Concentrations at MW104, MW117, and MW213 which were sampled for the first time, with concentrations at MW104 outside the range of the historical dataset for source locations within the sub-catchment.
 - Pathway and receptor: Results are within the existing range of the dataset range.
 - PFBS:
 - Source: Concentrations are outside the range of the historical dataset for source locations within the sub-catchment. It is noted that MW104, MW117, and MW213 were sampled for the first time.
 - Pathway and receptor: Results are within the existing range of the dataset range.

The statistical evaluation for the following areas shows:

- No discernible trends within the source area of the FFTA (MW009, MW009P, MW045, MW046). The groundwater concentrations in this area are within the historical ranges of the area, with the concentrations of PFAS remaining high at the FFTA. While individually MW009 recorded its highest historical concentration the concentrations were not considered to be statistically increasing. Remediation of the FFTA is planned for 2026 and will include capping of the FFTA, upgrades to drainage, and construction of diversion berms to prevent surface water migration.
- The STP area indicates a decreasing trend at MW006 and negligible trend at MW008 (R² 0.08 PFOS+PFHxS).

- The STP effluent irrigation area (MW016 and MW017) indicates an increasing trend in the source area at MW017. MW017, located within the irrigation field, reported a historical maximum for PFOS and PFOA and results have been increasing indicating and monitoring should continue as part of the OMP (R^2 0.69 PFOS+PFHxS). This increase over the last two years may be attributed to an increase in the irrigation regime (or a change in the area being irrigated) rather than a new source, investigations to confirm this have not been undertaken to date. MW016 is located upgradient of the irrigation within the parachute training area and recorded concentrations less than the LOR.
- On-site eastern boundary locations (MW005, MW029, MW104, MW117, MW213) indicated no discernible correlation. The remaining wells have only been sampled once or twice for PFAS and no discernible trends can be noted. However, MW104 which was sampled for the first time as part of the 2025 OMP, recorded PFAS concentrations above the historical dataset for this area. The sewer investigation undertaken by GHD in 2025 identified structural deficiencies in a nearby tank, such as visible gaps and unsealed junctions, presenting a credible pathway for PFAS migration to groundwater (GHD, 2025j). GHD believes that the source of PFAS at MW104 is the trade waste system which remains in-situ with a dominant PFOS signature consistent with historical use of 3M legacy AFFF. MW104 was re-sampled in May 2025 to confirm the analytical results from February 2025. Analytical results were higher than those recorded in February 2025 but within the same order of magnitude. Analytical results for sampling undertaken outside the OMP Monitoring event is presented in Table C3, Appendix C.
- No discernible increasing trends are present within the off-site locations surrounding the site at a sub-catchment level. There is a decreasing trend for PFAS concentrations at MW026 located near the Currumbene Creek to the east of the site. MW038 located on-site at the eastern boundary and potentially upgradient of MW026 is on an increasing trend, however, PFAS concentrations have reduced below the historical maximum recorded that was noted in 2024 OMR. MW031 has remained on a slight increasing trend, however, with a near negligible correlation (R^2 0.34 PFOS+PFHxS).
- No discernible trends were present for PFBS. While MW038 (pathway location, located on-site) reported a new historical maximum, this was within the margin of error of the previous highest result, and no discernible trend was observed.
- Further monitoring and review of 2026 OMP data will confirm whether the new maximums at MW009, MW017, and MW104 are potential increasing trends. Installation of new monitoring wells around MW104 should be considered to delineate PFAS impacts and assess off-site migration.

The previous monitoring period highlighted the review of MW017, MW038, SW012, and SW020 to confirm whether an increasing trend is occurring at these locations.

- PFAS concentrations at MW017, as discussed above, have remained elevated when compared to the dataset prior to 2024. The increase in concentrations may potentially be related to an increase in irrigation (the current irrigation schedule is unknown). Deployment of a flow meter at the STP should be considered to confirm that the source of increased concentrations at MW017 is related to irrigation.
- A new historical maximum was reported at MW038 (pathway) in 2024 (0.13 $\mu\text{g/L}$), concentrations in 2025 have since halved (0.06 $\mu\text{g/L}$). Although the result in 2025 is equal to the second highest within the historical dataset, the R squared value remains below 0.3 indicating a weak linear relationship.

7.4 Surface water analytical results

The February 2025 surface water results for PFOS+PFHxS and PFOA are shown on Figures A6 and A7, Appendix A, and August 2025 surface water results for PFOS+PFHxS and PFOA are shown on Figures A8 and A9, Appendix A.

7.4.1 Surface water physicochemical parameters

The water quality parameters (pH, DO, EC, redox) recorded in the February and August 2025 events were within previous data ranges and representative of historical surface water conditions, with the exception of the following:

- pH:
 - February 2025: pH results were above the historical range and slightly alkaline (7.43 pH) at SW018, however, returned to within the historical range in October 2025.

- August 2025: pH results were above the historical range at SW106. Results were slightly alkaline (7.56 pH), however, SW106 was sampled for the third time this difference may be representative of seasonal variability.
- DO:
 - August 2025: DO results were above the historical range at SW005, SW012 and SW049. Concentrations at SW005 and SW012 were within one order of magnitude of the previous highest result. Concentrations at SW049 were significantly higher than previous monitoring events (33.5 mg/L in August 2025 compared to 8.43 mg/L in July 2025 as part of a separate program), considering the impact this result would have on aquatic life and the observed ecological conditions at this location, this result is likely erroneous.
- EC:
 - August 2025: EC results were above the historical range at SW049. SW049 was sampled for the third time and was within one order of magnitude the previous highest result indicating the result may be representative of seasonal variability.
- Redox:
 - February 2025: Redox results were above historical ranges at 11 surface water locations. However, all were within one order of magnitude of the previous highest result. Results returned within range within the August 2025 monitoring period, indicating a potential error with the water quality meter during the February 2025 monitoring period.

7.4.2 PFAS extent in surface water

A summary of the PFAS concentrations in groundwater by sub-catchment is provided below:

- **Braidwood Road Drain and Lower Calymea Creek:** Concentrations of PFOA, PFOS and PFOS+PFHxS were within the historical range of results during the February and August 2025 monitoring events, with the exception of SW124 which was sampled for the first time in February 2025 and recorded a higher result in the August 2025 event for PFOS and PFOS+PFHxS.
 - PFOA: All concentrations were below the adopted ecological and recreational assessment criteria.
 - PFOS+PFHxS: Concentrations at SW005 (receptor), SW006 (receptor), SW007 (pathway), SW018 (source), and SW124 (pathway) were above the adopted ecological and recreational criteria.
- **Cabbage Tree Creek and Flat Rock Creek:** Concentrations of PFOA, PFOS+PFHxS were either below the laboratory LOR, or within the historical range at the locations sampled during the February and August 2025 monitoring events. In August 2025, SW187 was sampled for the first time and recorded detections of PFOS+PFHxS and no detections of PFOA, however, the PFOS+PFHxS concentration recorded was the highest for the sub-catchment overall. The remaining locations (SW001 and SW002) are on a general decreasing trend for PFOS+PFHxS.
 - PFOA: All concentrations were below the adopted ecological and recreational assessment criteria.
 - PFOS+PFHxS: All concentrations were below the adopted recreational assessment criteria but above the adopted ecological assessment criteria.
- **Currambene Creek:** Concentrations of PFOA, PFOS and PFOS+PFHxS were within the historical range of results during the February and August 2025 monitoring events. SW049 (pathway) recorded a new historical maximum for PFOA and PFOS+PFHxS, however, this was the first time this location was sampled since 2016. SW065 (receptor) recorded a new historical maximum in August 2025 for PFOA and PFOS+PFHxS.
 - PFOA: All concentrations were below the adopted ecological and recreational assessment criteria.
 - PFOS+PFHxS: Concentrations at SW008 (pathway), SW059 (pathway), SW065 (receptor), and SW185 (pathway) were above the adopted ecological and recreational assessment criteria.
- **Parma Creek:** Concentrations of PFOA, PFOS and PFOS+PFHxS were within the historical range of results during the February and August 2025 monitoring events.
 - PFOA: All concentrations were below the adopted ecological and recreational assessment criteria.
 - PFOS+PFHxS: Concentrations at SW013 (receptor) were above the adopted ecological and recreational assessment criteria.

- **Yerriyong Gully:** Concentrations of PFOA, PFOS and PFOS+PFHxS were within the historical range of results during the February and August 2025 monitoring events, with the exception of SW106 (source) which was sampled for the first time in February 2025 and recorded a higher result in the August 2025 event for PFOS and PFOS+PFHxS.
 - PFOA: All concentrations were below the adopted ecological and recreational assessment criteria.
 - PFOS+PFHxS: Concentrations at SW009 (source), SW012 (pathway), and SW106 (source) were above the adopted ecological and recreational assessment criteria.

The extent of PFAS impacts in surface water are mainly consistent with that reported in the 2024 OMR (GHD, 2025e) with the exception of increases in PFAS concentrations above the historical maximum within the Yerriyong Gully, Currumbene Creek, and Parma Creek sub-catchments (SW049, SW065, SW106, SW123, SW124, SW185), and concentrations at new location SW187 which are the highest recorded within this sub-catchment. It is noted that SW106, SW123, SW124, SW185, and SW187 were sampled for the first time in 2025 and are therefore outliers in the dataset for the time being.

7.4.3 Temporal trend analysis

Temporal trend graphs are presented in Appendix D for PFOA and PFOS+PFHxS for all surface water sampling locations.

Deviations from the historical dataset for surface water were noted for the following:

- First time detections of PFAS.
- Surface water concentrations are greater than historical maximum for a location and/or grouped concentrations do not fit in the existing population.
- Decreasing PFAS trends.

First time detections

In the February 2025 sampling event first time detections were recorded at SW106, SW123, SW124; and in the August 2025 event at SW187, and SW188. It is noted that SW185 was sampled for the first time in July 2025 as part of a separate monitoring program and also recorded first time detections. However, as this was the first time these locations have been sampled the dataset is limited and they have not been carried further through the performance measures.

New historical maximums

New historical maximums (where at least one sample has been collected previously) were recorded at SW049 and SW065 in February 2025, and at SW049, SW106, SW123, SW124, and SW185 in August 2025. All concentrations were above the laboratory error of 30% and therefore considered a real historical maximum.

As pathway locations an assessment of the line of best fit at SW049, SW123, SW124, and SW185 is required to determine if secondary actions are required as per Appendix B as is discussed below.

Line of best fit

The line of best fit was applied to PFOA, PFOS and PFOS+PFHxS at all surface water locations and a R squared value was obtained. This information is provided in Table G5 to Table G7, Appendix G. Any R squared values that were greater than or equal to 0.7 was determined to have a strong linear association (ANZG, 2018). As the historical dataset for SW065, SW106, SW123, SW124, and SW185, SW187, and SW188 includes one or two samples at each location, R squared values were discounted.

There was no R squared values above 0.7 in the surface water dataset for PFOA, PFOS and PFOS+PFHxS. Therefore, there are no statistically increasing or decreasing trends reported for locations within the surface water dataset.

As locations SW049, SW123, SW124, and SW185 were considered to have no trend but exceeded either the adopted criteria, an assessment of the fit within the existing population is required to determine if secondary actions are required as per Appendix B, and is discussed below.

Fit within existing population

The box and whisker plots provided in Diagram G10 to Diagram G15, Appendix G indicate whether the latest results fit within the existing population. The surface water locations have been split into sub-catchments and within those sub-catchments into source, pathway or receptor. Noting, this data has been grouped into SPR zones within the whole sub-catchment and are not being assessed as individual results. The most recent data displayed on the plots are from the 2025 monitoring period (February and August) and has been compared to the historical data set for the sub-catchment. This comparison provides an indication if there are potential changes occurring within the sub-catchment SPR zones, or if new data is within historical statistical parameters.

There are no box and whisker plots for the Cabbage Tree Creek or Flat Rock Creek as there are not enough locations to produce an interpretable plot. However, SW187 (Cabbage Tree Creek, receptor) was sampled for the first time in August 2025 and recorded the highest historical PFOS and PFOS+PFHxS concentrations for the sub-catchment. A data gap assessment of the northern surface water catchments in July 2025 found that while there were concentrations within the same order of magnitude as drinking water criterion, as is the case with SW187 in August 2025, the potential risk to receptors using this surface water for produce irrigation or stock watering is considered to be low (GHD, 2025i). Locations downgradient of SW187 (SW001) have had no discernible change in PFAS concentrations.

The box and whisker plots for the sub-catchments showed:

- **Braidwood Road Drain and Lower Calymea Creek:**
 - PFOA:
 - Source: The results are within the historical dataset range, however, the mean has increased from 0.19 µg/L to 0.30 µg/L.
 - Pathway: The results are outside the historical dataset range. The mean has increased from 0.04 µg/L to 0.11 µg/L, and location SW124, which was sampled for the first time during this monitoring period, is presented as an outlier.
 - Receptor: The results are within the historical dataset range.
 - PFOS:
 - Source: The results are within the historical dataset range, however, the mean has increased from 3.68 µg/L to 4.86 µg/L.
 - Pathway: The results are outside the historical dataset range. The mean has increased from 1.04 µg/L to 2.42 µg/L and location SW124, which was sampled for the first time during this monitoring period, recorded the highest result across all SPR linkages within the sub-catchment.
 - Receptor: The results are within the historical dataset range.
 - PFOS+PFHxS:
 - Source: The results are within the historical dataset range, however, the mean has increased from 7.07 µg/L to 8.8 µg/L.
 - Pathway: The results are outside the historical dataset range. The mean has increased from 1.99 µg/L to 4.99 µg/L, and location SW124, which was sampled for the first time during this monitoring period, recorded the highest result across all SPR linkages within the sub-catchment. Locations downgradient of SW124 (SW004B) have had no discernible change in PFAS concentrations.
 - Receptor: The results are within the historical dataset range.
- **Upper Currumbene Creek, Yerriyong Gully, and Parma Creek:**
 - PFOA: The results are within the historical dataset range for source, pathway, and receptor locations. The mean has increased slightly from 0.19 µg/L to 0.20 µg/L within source locations.
 - PFOS:
 - Source: The results are within the historical dataset range.
 - Pathway: The results are within the historical dataset range. PFOS concentrations at SW012 (3.76 µg/L) are presented as an outlier.

- Receptor: The results are outside the historical dataset range. The mean has increased from 0.80 µg/L to 1.02 µg/L. However, it is noted that four locations (SW106, SW123, SW188, SW185, and SW188) were sampled for the first time during the current monitoring period and are therefore outliers in the dataset for the time being.

Sampling at these locations was undertaken towards the end of August 2025, where monthly rainfall was greater than 2x the historical average for the month and may be a contributing factor to these results. Locations SW049, SW106, SW123, and SW185 all recorded higher PFAS concentrations in August (where rainfall was above average) than in February (where rainfall was consistent with the historical average). SW013 and SW014 located downgradient of the above locations reported PFAS concentrations consistent with the historical dataset, and with inconclusive and decreasing trends, respectively.

Monitoring at SW049, SW065, SW106, SW123, SW124, and SW185 should continue as per the OMP.

- PFOS+PFHxS:
 - Source: The results are within the historical dataset range.
 - Pathway: The results are within the historical dataset range. PFOS concentrations at SW012 (6.53 µg/L) are presented as an outlier.
 - Receptor: The results are within the historical dataset range, however the mean has increased from 1.62 µg/L to 1.68 µg/L.

SW124 recorded PFAS concentrations outside the existing population for Braidwood Road Drain surface water pathway locations. As this location was sampled for the first time during the monitoring period there is insufficient information to assess if there is evidence of change. No increase or decrease in concentrations were reported in upgradient or downgradient surface water locations. Down gradient receptors include recreational users, and surface water concentrations continue to be elevated above recreational criteria. Monitoring at this location should continue as per the OMP.

SW049, SW123, and SW185 recorded concentrations within the existing population of the Currumbene and Yerriyong Gully sub-catchments. SW123 is located on base, was sampled for the first time during the monitoring period, there is insufficient information to assess if there is evidence of change. Concentrations recorded at SW123 were equal to the detection limit and exceeded the ecological criterion only, with no exceedances of the recreational criterion. As such, there is no plausible SPR linkage for on base receptors or downgradient recreational receptors. Monitoring at this location should continue as per the OMP.

SW049 and SW185 are located off base. These two locations are not publicly accessible as they are situated on private property. Access is currently only possible via gated entry points along Defence-controlled perimeter roads or through adjoining private land. As such, there is limited SPR linkage for recreational receptors due to PFOS+PFHxS. Monitoring at these locations should continue as per the OMP, given they are the closest surface water bodies to the base in these areas.

The previous monitoring period highlighted the review of SW012, and SW020 to confirm whether an increasing trend is occurring at these locations.

- A new historical maximum was reported at SW012 (pathway) in 2024. In 2024 and 2025, PFAS concentrations at SW012 have fluctuated between February and August, with concentrations in February higher than concentrations in August. Notably, concentrations at SW012 did not increase above the historical maximum reported in 2024 and remain within the range of the historical dataset. The R squared value remains below 0.3 indicating a weak linear relationship.
- A new historical maximum was reported at SW020 (pathway) in August 2024, however, concentrations since then have decreased and are within the range of the historical dataset. The R squared value remains below 0.3 indicating a weak linear relationship.

8. Conceptual site model

The CSM was developed during the investigation stages (Aurecon, 2017) and summarised in the OMP (Appendix F of PMAP (Defence, 2019)). The CSM summarises the linkages between PFAS sources, exposure pathways and receptors. The CSM presented in the PMAP (Defence, 2019) has been updated in this OMR to present the changes in understanding of source-pathway-receptor linkages since the PMAP was published. The updated CSM is presented in Table B1, Appendix B. A summary of the CSM based on offsite receptors and exposure pathways is presented in Table 12.

In summary, the sampling undertaken during the monitoring period has provided additional data that improves our understanding of the changing PFAS concentrations in groundwater and surface water across source, pathway, and receptor locations.

PFAS concentrations were within historical ranges and statistical trend analysis generally indicated inconclusive ($R^2 < 0.7$) or decreasing trends. The exceptions were new maximum concentrations in groundwater in source area locations (MW009, MW017, MW104), and new maximum concentrations in surface water pathway locations SW049, SW065, SW106, SW123, SW185, (Yerriyong Gully, Currumbene Creek, Parma Creek sub-catchments) and SW124 (Braidwood Road Drain sub-catchment). No changes were identified in receptor locations.

Despite these changes, the PFAS transport mechanisms and the groundwater and surface water concentrations are consistent with historical data. Overall, data presented in this report indicate that the PFAS primary and secondary sources, pathways and receptors do not significantly change the understanding of the CSM. The exception is the identification of a potential additional source of PFAS within the trade waste system near MW104, which should be investigated further (GHD, 2025j). GHD considers the in-situ trade waste system to be the source of PFAS at MW104, based on a dominant PFOS signature consistent with historical use of 3M legacy AFFF. The system was originally designed to capture discharge from the Hangar J AFFF fire suppression system. Future monitoring and review of 2026 OMP data will continue to contribute to an evaluation of any potential changes to the CSM.

Table 12 Review of site CSM based on 2025 monitoring period results

Receptor category	Exposure pathway	Exposure pathway status (2019 OMP)	2025 OMR Assessment outcome
Human health	Drinking water	HHRA determined elevated risks if groundwater is consumed, and groundwater exceeds the drinking water criteria on the Braidwood Drain Road, Upper Currumbene Creek and Yerriyong Gully sub-catchments. The previous water use survey (Aurecon, 2017) indicated that bore water was not used for domestic or agricultural purposes.	No change to groundwater use has been identified. Unlikely to be a significant change in the overall risk profile.
	Recreational	Risks from groundwater are low and acceptable for off-base recreational receptors with the exception of the Upper Currumbene Creek near MW026. Surface water results exceed the recreational criteria in the Braidwood Rain Drain, Parma Creek, Yerriyong Gully and Currumbene Creek sub-catchments close to the base. However, surface water is not used at the neighbouring properties and recreational use only occurs at the confluence of Parma and Currumbene Creeks. The HHERA (EnRiskS, 2017) concluded that the risk from surface water from recreation were low.	No change to surface water use has been identified. Unlikely to be a significant change in the overall risk profile.

Receptor category	Exposure pathway	Exposure pathway status (2019 OMP)	2025 OMR Assessment outcome
	<p>Livestock (through ingestion of PFAS impacted surface water and pasture).</p> <p>Consumers of home slaughtered meat/offal, milk, and/or eggs.</p> <p>Consumer of home grown produce irrigated with</p>	<p>The HHERA (EnRiskS, 2017) reported that there is a level of risk to certain properties within the Braidwood Road Drain sub-catchment, Cabbage Tree creek sub-catchment, Nowra Creek sub-catchment and Upper Currumbene Creek sub-catchment. Currently these risks are being managed through administrative controls, that prevents consumption of livestock on specific properties.</p>	<p>Administrative controls are in place and no change to the land uses has been identified.</p> <p>Unlikely to be a significant change in the overall risk profile.</p>
Ecosystem health	<p>Indirect and direct contact</p>	<p>A HHERA was completed in 2018 (EnRiskS, 2018) and the potential for adverse effects to the environment through bioaccumulation cannot be excluded.</p>	<p>Unlikely to be a significant change in the overall risk profile.</p>

9. Conclusions

As per the OMP, two scheduled monitoring events were completed in the monitoring period in February and August 2025. Overall, the PFAS impacts within the Management Area have remained broadly similar to the historical results with the following exceptions:

- Groundwater:
 - New maximum concentrations (where the number of samples is >1) were reported at MW009 and MW017. These groundwater wells are located within source areas. No increase was reported downgradient of MW009, and this well is located within the FFTA which will undergo remediation in 2026. Increases in concentrations at MW017 are potentially related to an increase in irrigation from the STP within the area. Further monitoring during the 2026 OMP event will provide further characterisation to this source area locations.
 - New monitoring location MW104 reported the highest PFAS concentrations on record for the sub-catchment. Current information suggests that the source of PFAS at MW104 is the trade waste system which remains in-situ. The sewer investigation undertaken in July included recommendations to address this PFAS source (GHD, 2025j). In the interim, MW104 should continue to be monitored as part of the OMP. The PFAS data gaps assessment based on sampling undertaken in July 2025 at SW049 and SW185 also recommended further assessment of surface-groundwater interactions in the eastern portion of the site.
 - Assessment of the irrigation events at MW017 should be considered.
- Surface water:
 - New maximum concentrations (where the number of samples is >1) were reported at five locations within the Yerriyong Gully, Currumbene Creek, and Parma Creek sub-catchments (SW049, SW065, SW106, SW123, SW185). Sampling at these locations was undertaken towards the end of August 2025, where monthly rainfall was greater than 2x the historical average for the month and may be a contributing factor to these results. Further monitoring and review of 2026 OMP data will provide further characterisation of this data set.
 - SW124 was sampled for the first time in February 2025 and again in August 2025 where a new maximum concentration was recorded. Whilst the dataset is limited, locations downgradient of SW124 (SW004B, SW005) have had no discernible change in PFAS concentrations.
 - SW187 was sampled for the first time in August 2025 but recorded the highest historical concentrations for the sub-catchment. Whilst the dataset is limited, locations downgradient of SW187 (SW001) have had no discernible change in PFAS concentrations. Based on the above, the data collected during the current monitoring period has shown no significant changes to the spatial distribution of PFAS as well as the understanding of risks associated with PFAS at HMAS Albatross and the Management Area. A data gap assessment of the northern surface water catchments in July 2025 found that while there were concentrations within the same order of magnitude as drinking water criterion, as is the case with SW187 in August 2025, the potential risk to receptors using this surface water for produce irrigation or stock watering is considered low (GHD, 2025i).

Based on the results and current land uses within the Management Area the overarching risk profile remains unchanged.

Ongoing monitoring of groundwater and surface water as part of the OMP will continue to assess the nature and extent of PFAS, potential migration and any associated changes to the risk profile in line with the timelines outlined in the PFAS Management Area Plan (PMAP) (Defence, 2019).

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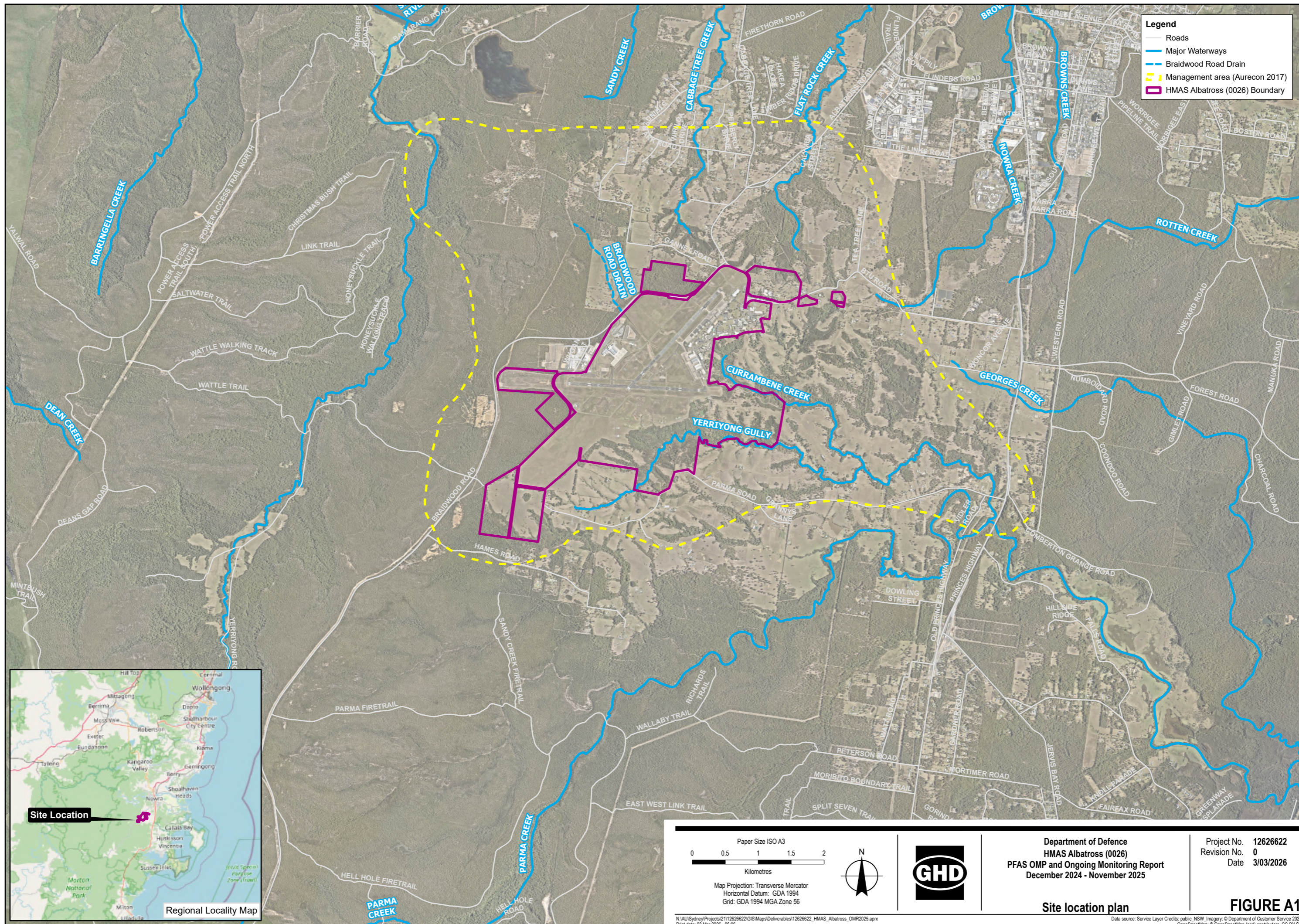
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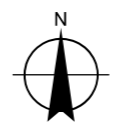
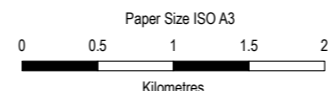
Appendices

Appendix A

Figures



- Legend**
- Roads
 - Major Waterways
 - Braidwood Road Drain
 - Management area (Aurecon 2017)
 - HMAS Albatross (0026) Boundary



Map Projection: Transverse Mercator
 Horizontal Datum: GDA 1994
 Grid: GDA 1994 MGA Zone 56

Department of Defence
 HMAS Albatross (0026)
 PFAS OMP and Ongoing Monitoring Report
 December 2024 - November 2025

Project No. 1262622
 Revision No. 0
 Date 3/03/2026

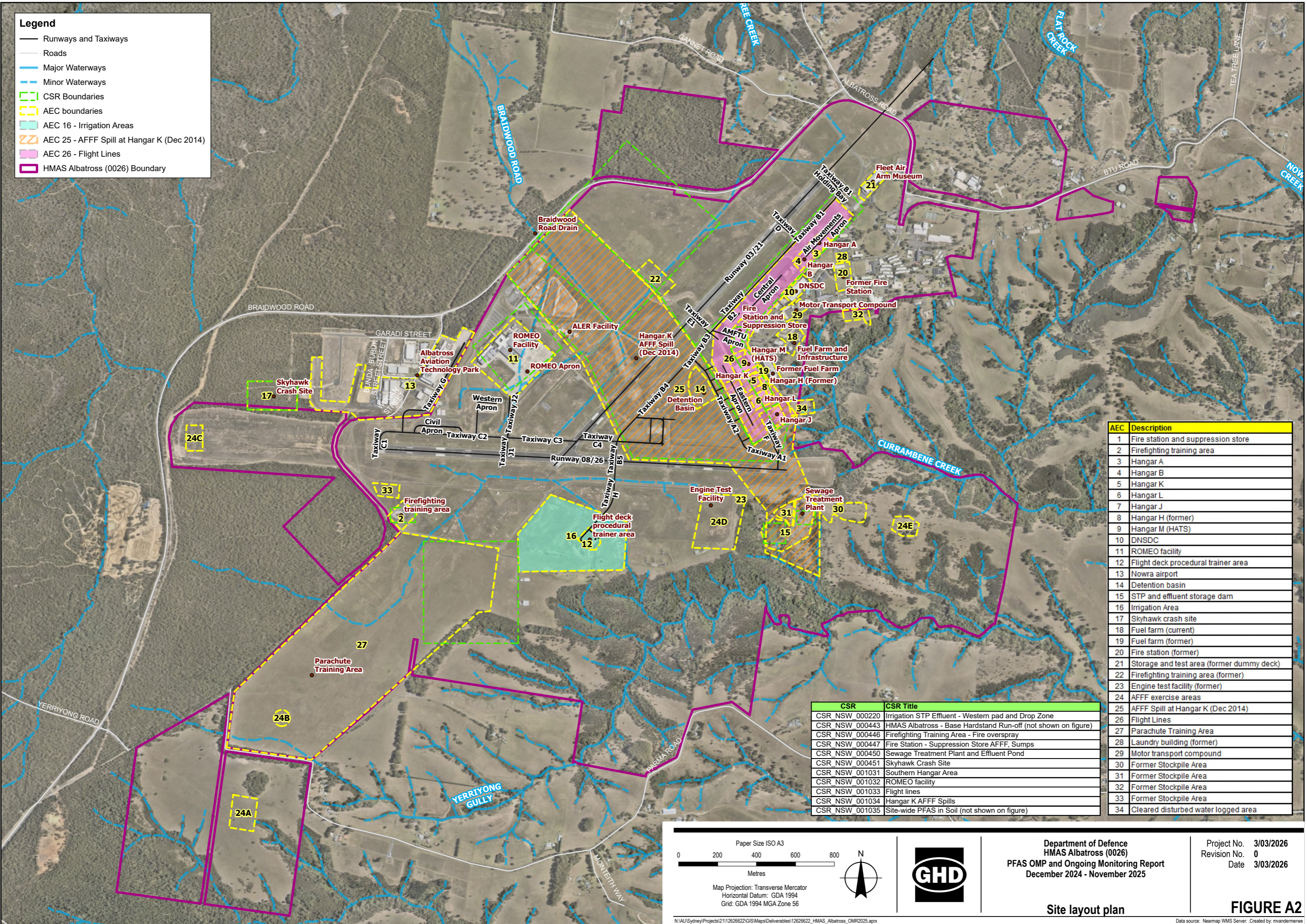
Site location plan

FIGURE A1

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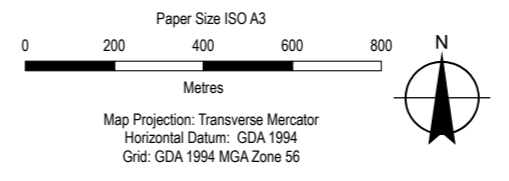
Data source: Service Layer Credits: public, NSW, Imagery: © Department of Customer Service 2020
 OpenStreetMap: © OpenStreetMap (and) contributors, CC-BY-SA
 Neatmap WMS Server: Created by: mvandermerwe

- Legend**
- Runways and Taxiways
 - Roads
 - Major Waterways
 - Minor Waterways
 - CSR Boundaries
 - AEC boundaries
 - AEC 16 - Irrigation Areas
 - AEC 25 - AFFF Spill at Hangar K (Dec 2014)
 - AEC 26 - Flight Lines
 - HMAS Albatross (0026) Boundary



AEC	Description
1	Fire station and suppression store
2	Firefighting training area
3	Hangar A
4	Hangar B
5	Hangar K
6	Hangar L
7	Hangar J
8	Hangar H (former)
9	Hangar M (HATS)
10	DNSDC
11	ROMEO facility
12	Flight deck procedural trainer area
13	Nowra airport
14	Detention basin
15	STP and effluent storage dam
16	Irrigation Area
17	Skyhawk crash site
18	Fuel farm (current)
19	Fuel farm (former)
20	Fire station (former)
21	Storage and test area (former dummy deck)
22	Firefighting training area (former)
23	Engine test facility (former)
24	AFFF exercise areas
25	AFFF Spill at Hangar K (Dec 2014)
26	Flight Lines
27	Parachute Training Area
28	Laundry building (former)
29	Motor transport compound
30	Former Stockpile Area
31	Former Stockpile Area
32	Former Stockpile Area
33	Former Stockpile Area
34	Cleared disturbed water logged area

CSR	CSR Title
CSR NSW 000220	Irrigation STP Effluent - Western pad and Drop Zone
CSR NSW 000443	HMAS Albatross - Base Hardstand Run-off (not shown on figure)
CSR NSW 000446	Firefighting Training Area - Fire overspray
CSR NSW 000447	Fire Station - Suppression Store AFFF, Sumps
CSR NSW 000450	Sewage Treatment Plant and Effluent Pond
CSR NSW 000451	Skyhawk Crash Site
CSR NSW 001031	Southern Hangar Area
CSR NSW 001032	ROMEO facility
CSR NSW 001033	Flight lines
CSR NSW 001034	Hangar K AFFF Spills
CSR NSW 001035	Site-wide PFAS in Soil (not shown on figure)



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PFAS OMP and Ongoing Monitoring Report
December 2024 - November 2025

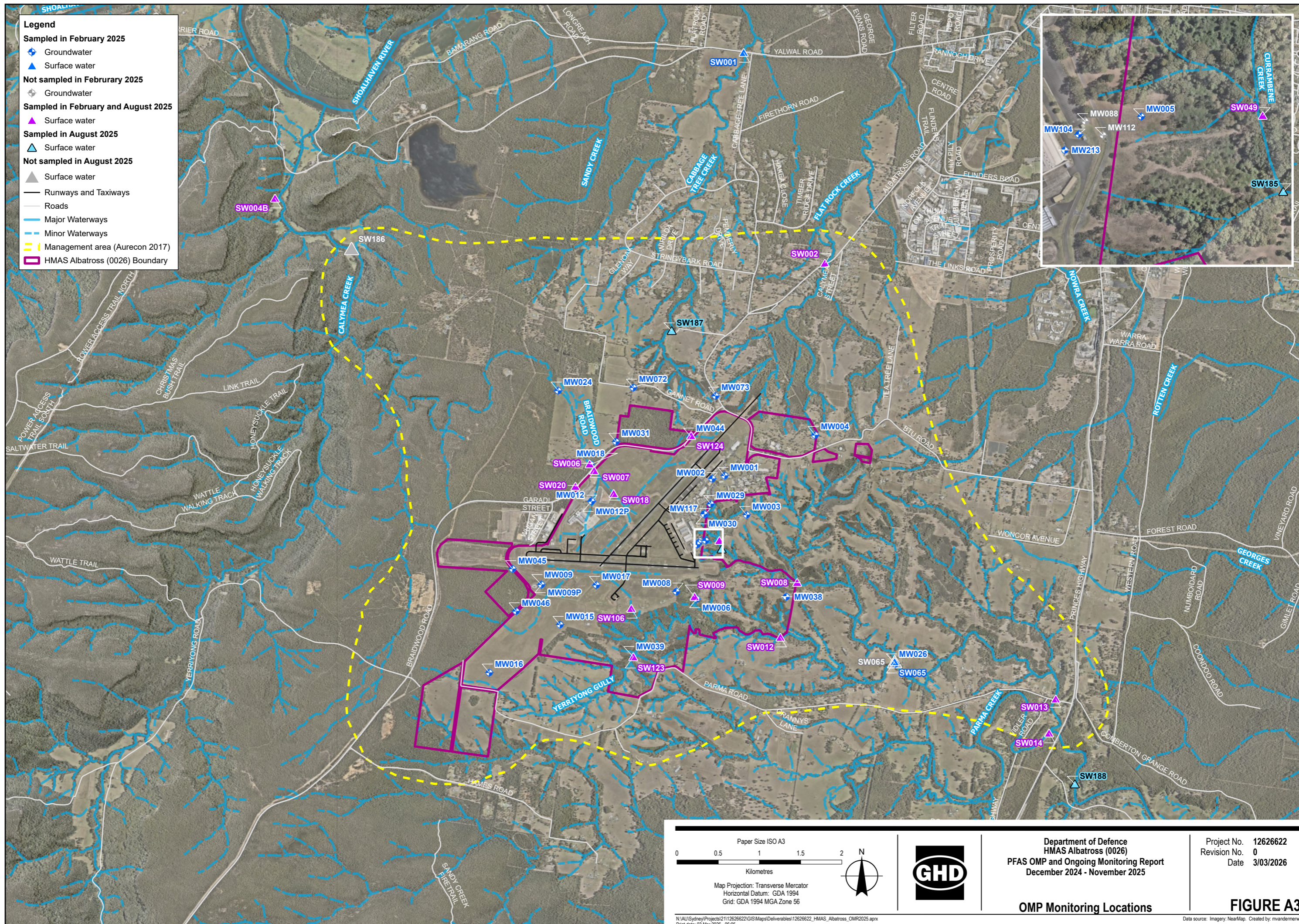
Project No. 3/03/2026
Revision No. 0
Date 3/03/2026

Site layout plan

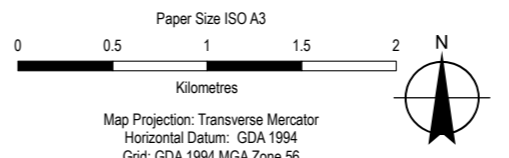
FIGURE A2

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Print date: 03 Mar 2026 - 06:05

Data source: Neimap WMS Server. Created by: m.vandermerwe



- Legend**
- Sampled in February 2025**
 - ◆ Groundwater
 - ▲ Surface water
 - Not sampled in February 2025**
 - ◆ Groundwater
 - Sampled in February and August 2025**
 - ◆ Surface water
 - Sampled in August 2025**
 - ▲ Surface water
 - Not sampled in August 2025**
 - ▲ Surface water
 - Runways and Taxiways
 - Roads
 - Major Waterways
 - Minor Waterways
 - Management area (Aurecon 2017)
 - HMAS Albatross (0026) Boundary



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OMP Monitoring Locations

FIGURE A3

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Print date: 03 Mar 2026 - 06:05

Data source: Imagery: NearMap. Created by: mvanmerwe

Legend

Monitoring location

- Groundwater
- Groundwater - lost or destroyed

PFOA (µg/L)

- < LOR
- LOR - 0.07
- 0.07 - 1
- 1 - 10
- 10 - 50
- > 50

Runways and Taxiways

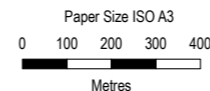
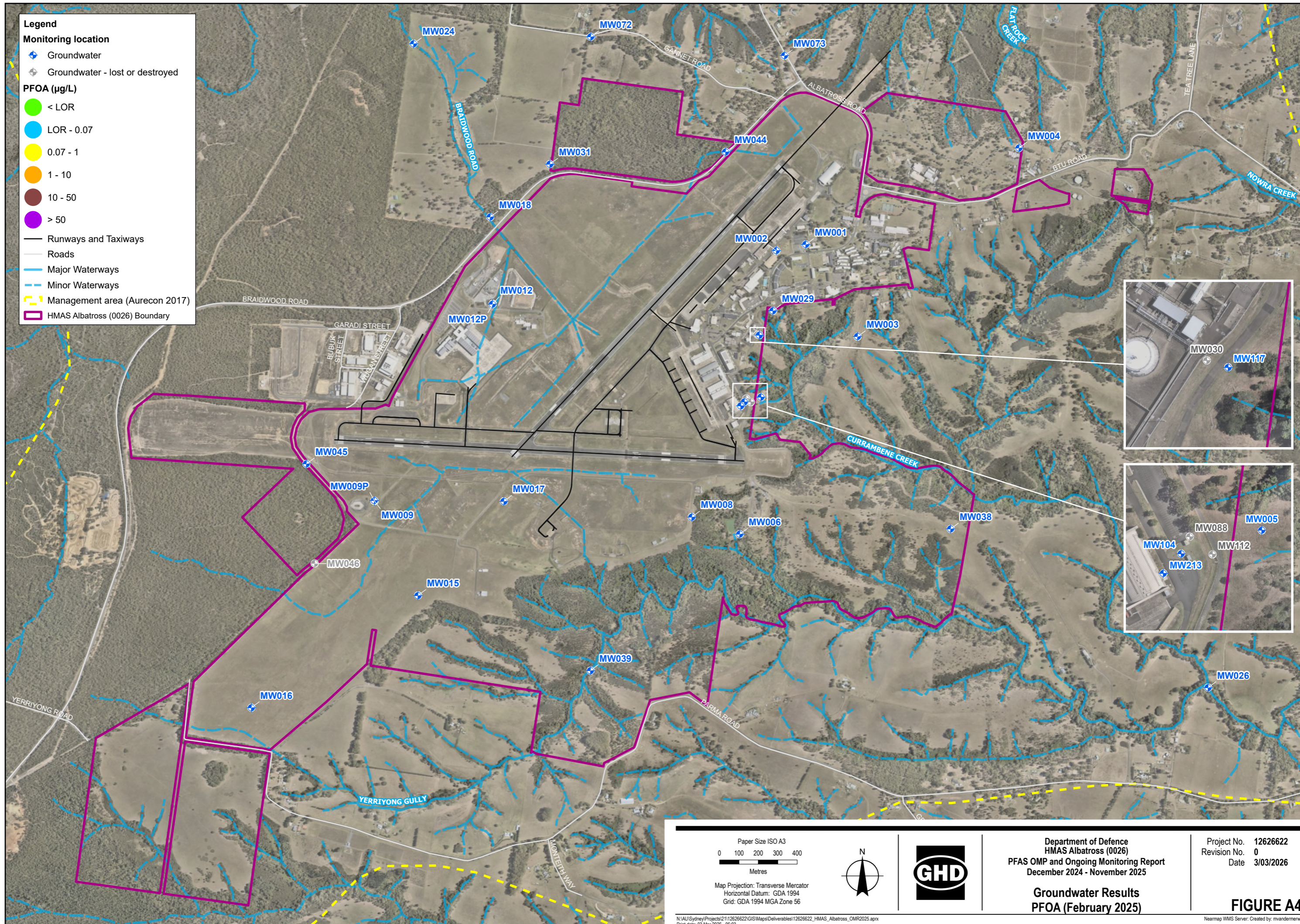
Roads

Major Waterways

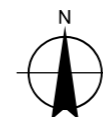
Minor Waterways

Management area (Aurecon 2017)

HMAS Albatross (0026) Boundary



Map Projection: Transverse Mercator
 Horizontal Datum: GDA 1994
 Grid: GDA 1994 MGA Zone 56



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Groundwater Results
PFOA (February 2025)

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FIGURE A4

Legend

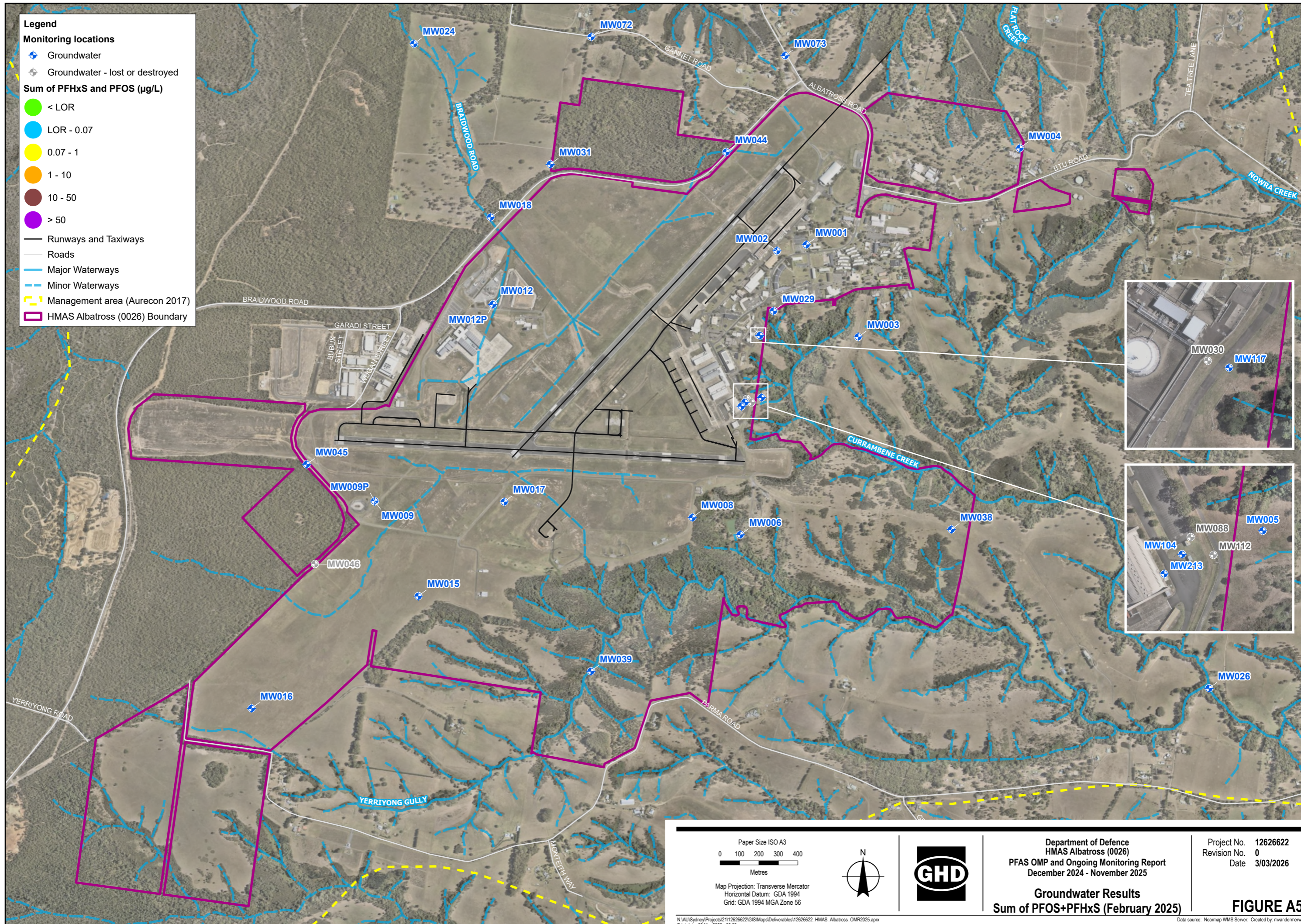
Monitoring locations

- Groundwater
- Groundwater - lost or destroyed

Sum of PFHxS and PFOS (µg/L)

- < LOR
- LOR - 0.07
- 0.07 - 1
- 1 - 10
- 10 - 50
- > 50

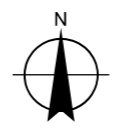
Runways and Taxiways
Roads
Major Waterways
Minor Waterways
Management area (Aurecon 2017)
HMAS Albatross (0026) Boundary



Paper Size ISO A3

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Metres

Map Projection: Transverse Mercator
Horizontal Datum: GDA 1994
Grid: GDA 1994 MGA Zone 56



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December 2024 - November 2025

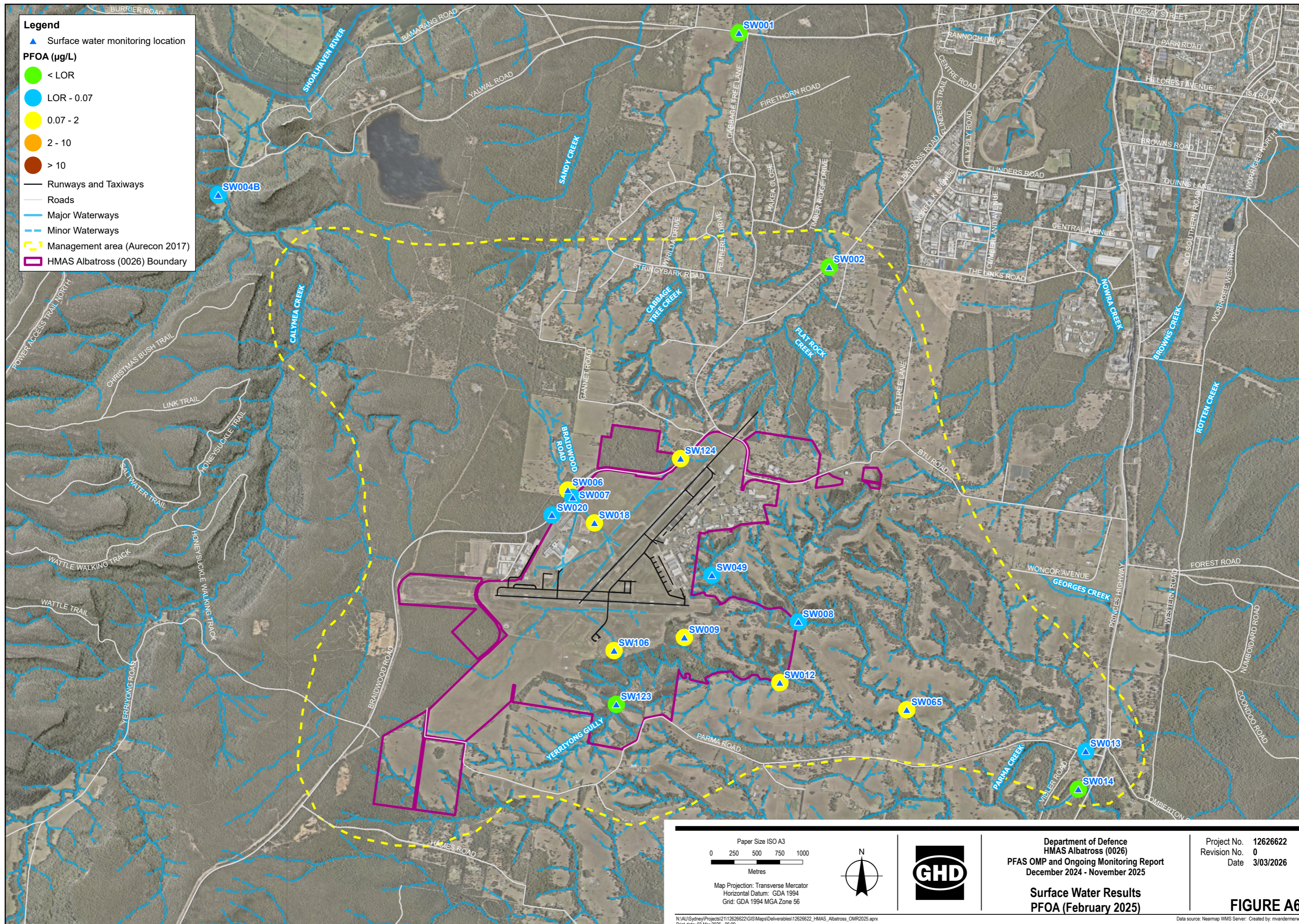
Groundwater Results
Sum of PFOS+PFHxS (February 2025)

Project No. 1262622
Revision No. 0
Date 3/03/2026

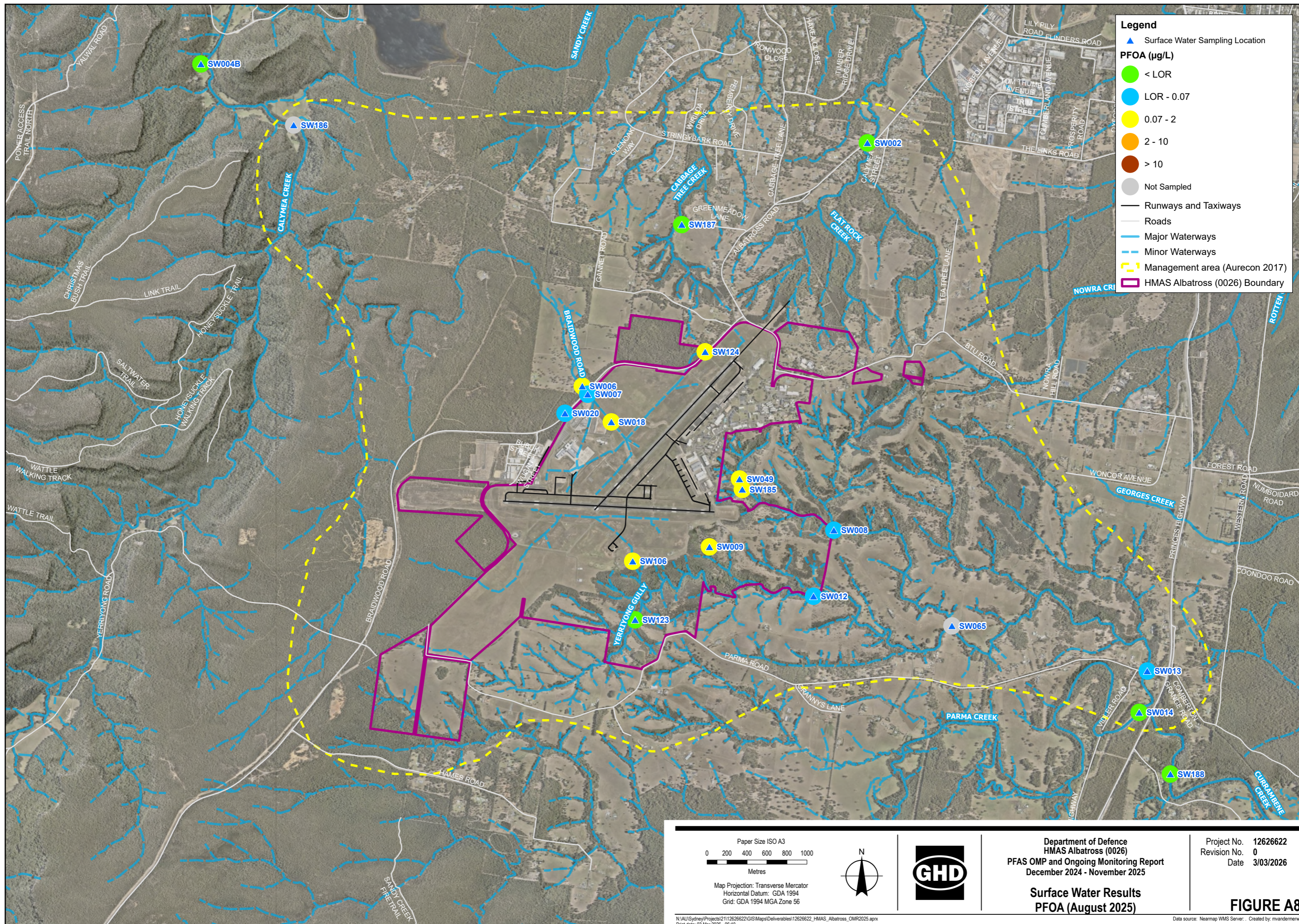
FIGURE A5

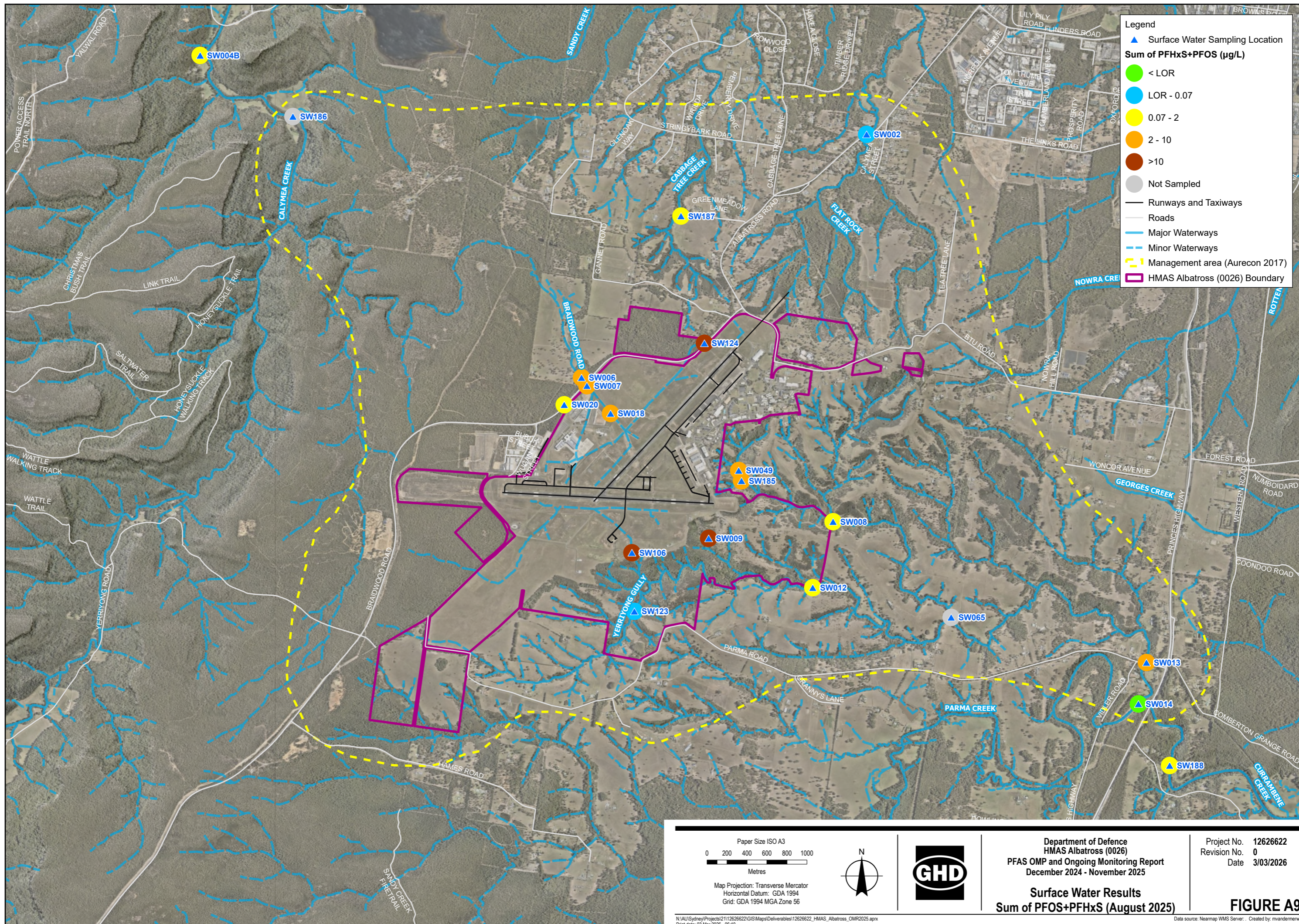
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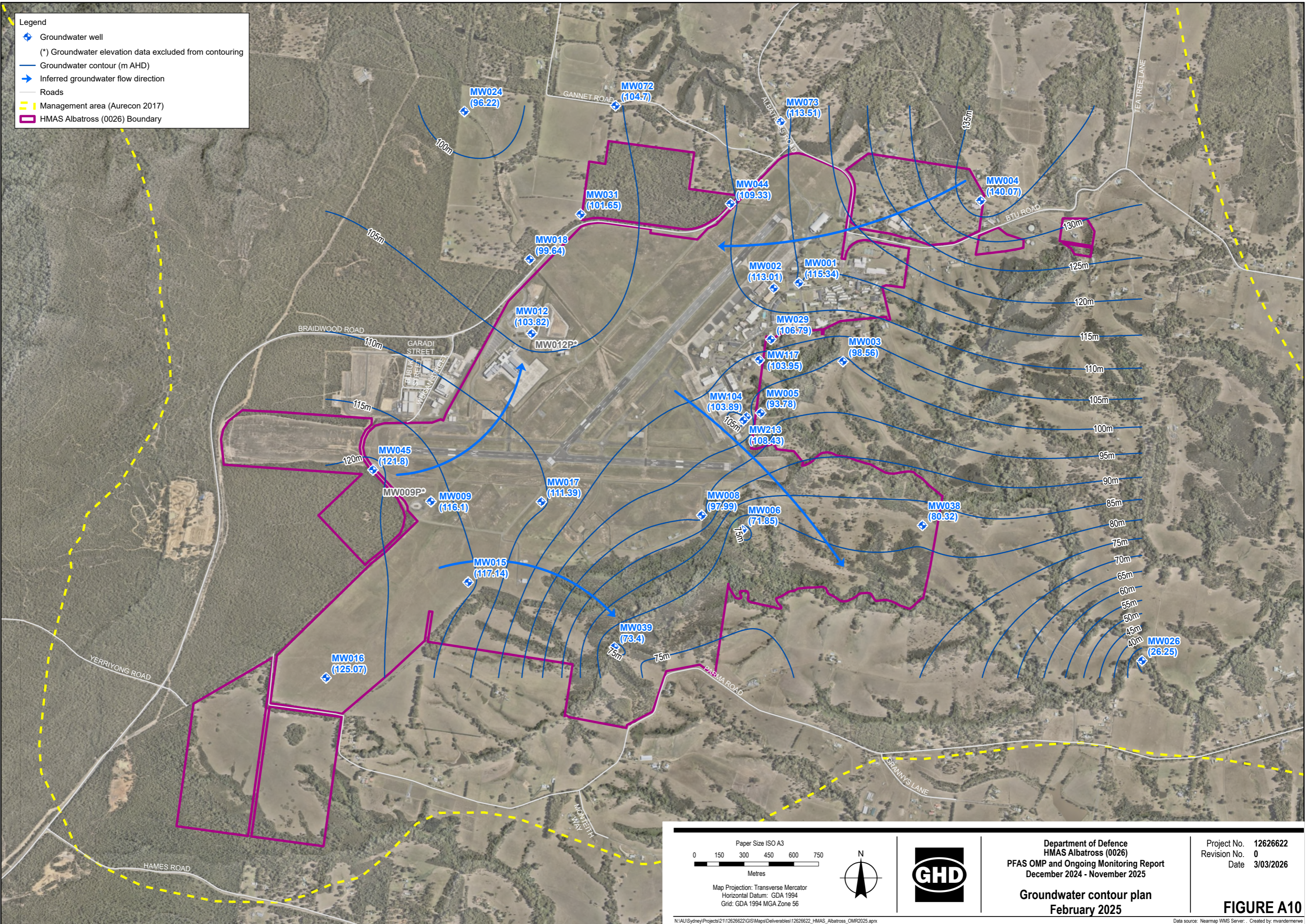
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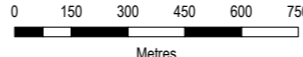


Legend

-  Groundwater well
- (*) Groundwater elevation data excluded from contouring
-  Groundwater contour (m AHD)
-  Inferred groundwater flow direction
-  Roads
-  Management area (Aurecon 2017)
-  HMAS Albatross (0026) Boundary

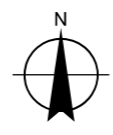


Paper Size ISO A3



Metres

Map Projection: Transverse Mercator
Horizontal Datum: GDA 1994
Grid: GDA 1994 MGA Zone 56



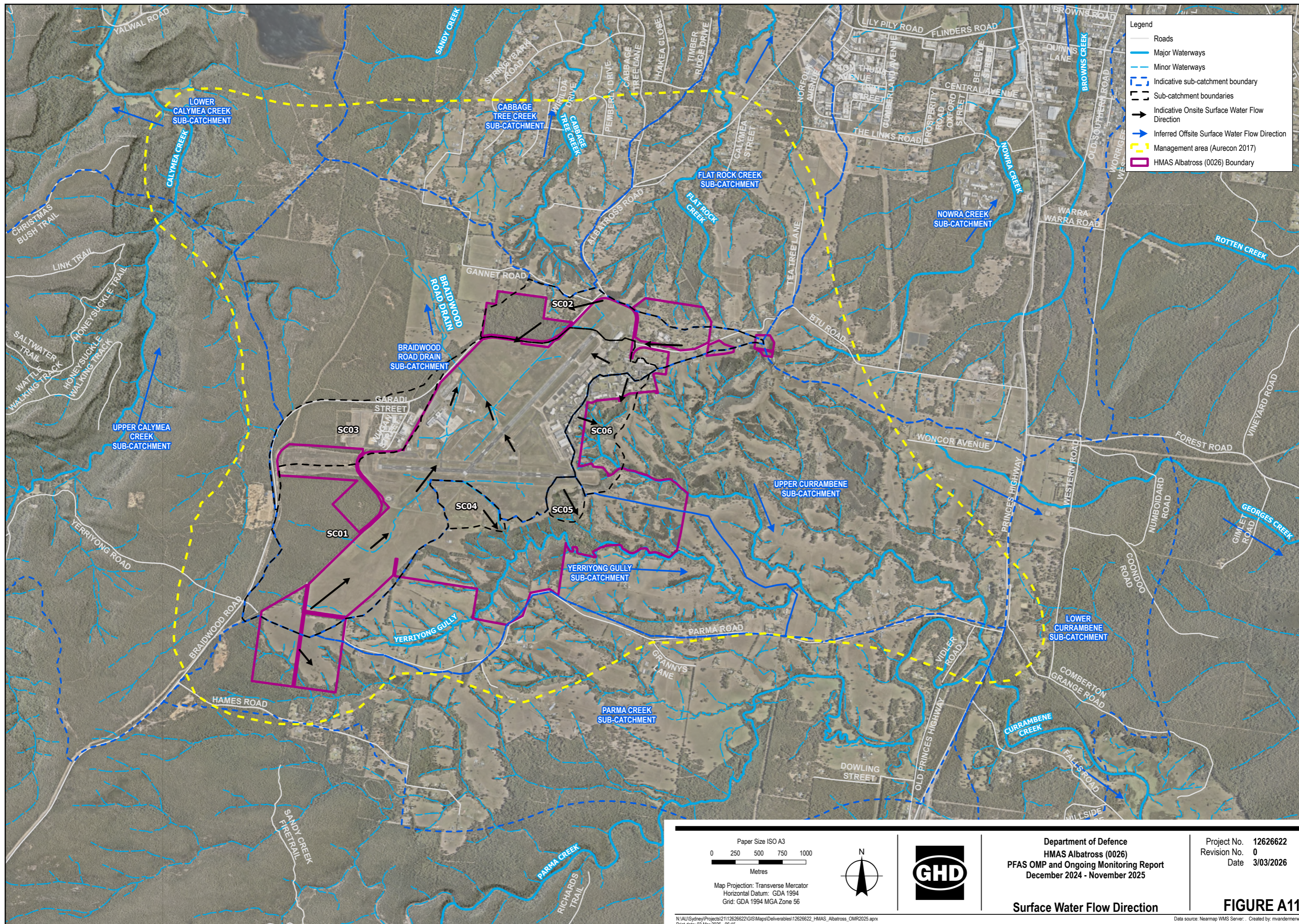

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Groundwater contour plan
February 2025

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FIGURE A10

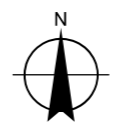
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Print date: 03 Mar 2026 - 06:11
Data source: Nearmap WMS Server. Created by: mvandermerwe



- Legend**
- Roads
 - Major Waterways
 - Minor Waterways
 - - - Indicative sub-catchment boundary
 - - - Sub-catchment boundaries
 - Indicative Onsite Surface Water Flow Direction
 - Inferred Offsite Surface Water Flow Direction
 - - - Management area (Aurecon 2017)
 - ▭ HMAS Albatross (0026) Boundary

Paper Size ISO A3
 0 250 500 750 1000
 Metres

Map Projection: Transverse Mercator
 Horizontal Datum: GDA 1994
 Grid: GDA 1994 MGA Zone 56



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Surface Water Flow Direction

FIGURE A11

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 Print date: 03 Mar 2026 - 06:15

Data source: Nearmap WMS Server. Created by: m.vandermerwe

Appendix B

**Updated CSM and performance measures
and responses**

Table B1 Updated Conceptual Site Model

Source Area	Secondary Source	Pathway	Receptor	SPR linkage	Further investigation and/or management	Comments	
Shoalhaven River Basin	Former firefighting training areas	On-base					
	<ul style="list-style-type: none"> – Firefighting training site (former) (AEC 22) – Firefighting training area (AEC 2) 	PFAS impacted soil	Direct contact and incidental ingestion through exposure during excavation and construction activities as well as dispersion of soil and dust from wind and water.	Defence personnel, contractors and site visitors	Possible	Yes	The majority of soil samples analysed do not exceed the commercial/industrial screening criteria. The HHERA concluded the risk was low and acceptable to worker exposure (EnRiskS 2017). However, there are many AECs with limited data and further investigation is required to understand the risk profile.
	<ul style="list-style-type: none"> – AFFF exercise area (AEC 24d) 	PFAS impacted surface water and sediment	Direct contact and incidental ingestion through overland transport of particulate and dissolved PFAS via surface water towards Braidwood Road drain.	Defence personnel, contractors and site visitors	Unlikely	Yes	PFAS concentrations in on-base surface water has exceeded recreational screening criteria. As surface water is not used on-base and the majority of sediments were below the human health screening criteria, risks to on-base recreational users is not relevant. The HHERA concluded the risk was low and acceptable to worker exposure (EnRiskS 2017).
	STP irrigation areas						
	<ul style="list-style-type: none"> – Parachute training area (AEC 27b) 	PFAS impacted groundwater	Direct contact and incidental ingestion through transport of PFAS via perched groundwater to surface water	Defence personnel, contractors and site visitors	Unlikely	Yes	PFAS concentrations in on-base groundwater has exceeded above recreational and drinking water criteria. However, groundwater is not used on-base and therefore there is no pathway.
		Off-base					
	PFAS impacted soil	Direct contact and incidental ingestion through exposure to agricultural activities and land use as well as dispersion of soil and dust from wind and water.	Residents at neighbouring properties	Unlikely	Yes	PFAS concentrations in soil exceed the human health residential screening criteria in the Braidwood Road drain sub-catchment and one property on the Nowra Creek sub-catchment. This risk has been isolated to individual properties where direct contact is not currently planned. Further soil assessment to understand the health risk. The risk profile needs to be considered for future landowner, subdivisions of land and other changes.	

Source Area	Secondary Source	Pathway	Receptor	SPR linkage	Further investigation and/or management	Comments
						Review and understand previous correspondence / engagement with the property owners to date to understand the current community understanding.
		Uptake of PFAS by biota through ingestion	Consumers of home grown produce	Possible	Yes	<p>If home grown produce is being consumed on properties that are identified as using irrigation by water containing PFAS then more data is required. At the time of the HHERA no home produce was being grown (EnRiskS 2017).</p> <p>There is currently one property in the Braidwood Road Drain sub-catchment and one location within the Nowra Creek sub-catchment that exceed the residential with garden /accessible soil (HIL A) criteria.</p> <p>Review and understand previous correspondence / engagement with the property owners to date to understand the current community understanding.</p>
		Uptake of PFAS by biota through bioaccumulation.	Terrestrial and aquatic ecosystems	Possible	Yes	A HHERA was completed in 2018 (EnRiskS 2018) and the potential for adverse effects to the environment through bioaccumulation could not be excluded.
	PFAS impacted surface water and sediment	Direct contact and ingestion through overland transport of particulate and dissolved PFAS via surface water towards Braidwood Road drain.	Residents at neighbouring properties	Possible	Yes	<p>Surface water results from the OMP exceed the recreational criteria in the Braidwood Road drain sub-catchment close to the base. However, surface water is not used at the neighbouring properties and recreational use of the Braidwood Road drain sub-catchment is unlikely.</p> <p>The mass flux assessment only considered the one location for the Braidwood Road drain outlet for surface water. To the north there is another outlet (near MW044) that was not included and not part of the OMP and is considered a data gap.</p> <p>The OMP (AECOM 2024) states that the results from the OMP considers the conclusions from the HHERA and CSM still supports the current risk profile.</p> <p>The HHERA (EnRiskS 2017) that the risks were low and acceptable for the terrestrial and aquatic environment through livestock health and direct toxicity.</p> <p>Review and understand previous correspondence / engagement with the property owners to date to understand the current community understanding.</p>
			Recreational users of surface water	Unlikely	Yes	
			Terrestrial and aquatic ecosystems in downstream receiving environments including Calymea Creek.	Possible	Yes	

Source Area		Secondary Source	Pathway	Receptor	SPR linkage	Further investigation and/or management	Comments
			Uptake of PFAS in water and sediment by biota through ingestion	Livestock (through ingestion of PFAS impacted surface water and pasture).	Likely	Yes	<p>The HHERA (EnRiskS 2017) reported that there is a level of risk to certain properties within the Braidwood Road Drain sub-catchment, Cabbage Tree creek sub-catchment and Nowra Creek sub-catchment. Currently these risks are being managed administrative controls. The administrative controls prevent consumption of livestock on specific properties.</p> <p>A formal review of the HHERA and HHERA addendum is recommended to ascertain if further biota sampling is required for baseline data.</p> <p>Review and understand previous correspondence / engagement with the property owners to date to understand the current community understanding.</p>
				Consumer of home slaughtered meat/offal, milk and/or eggs.			
				Consumer of home grown produce irrigated with surface water.			
				Aquatic species and livestock consumed by humans.			
	PFAS impacted groundwater		Direct contact and ingestion through vertical migration of particulate and dissolved PFAS to groundwater	Land user downgradient of groundwater.	Unlikely	Yes	<p>PFAS impacted groundwater exceeding the drinking water guidelines was reported at the Braidwood Road Drain sub-catchment. The previous water use survey (Aurecon 2017) indicated that bore water was not used for domestic or agricultural purposes.</p> <p>This water use survey is required to be updated to understand the current use of groundwater in the off-site properties.</p>
			Direct contact and ingestion through transport of PFAS via groundwater to surface water	Land user downgradient of groundwater.	Possible	Yes	<p>The risks are low and acceptable for the users of groundwater with the exception of the Braidwood River drain sub-catchment. However, surface water is not used at the neighbouring properties and recreational use of the Braidwood Road drain sub-catchment is unlikely.</p>

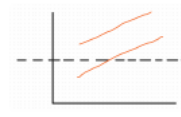
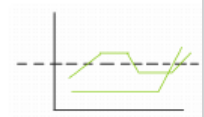
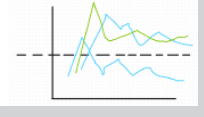
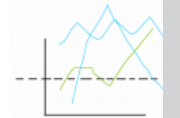
Source Area		Secondary Source	Pathway	Receptor	SPR linkage	Further investigation and/or management	Comments
							The mass flux assessment (Aurecon 2022) highlighted an area of elevated PFAS (greater than 10 µg/L) concentrations around MW044 with no upgradient sources and is a data gap for offsite migration in this area.
				Terrestrial and aquatic ecosystems in downstream receiving environments including Calymea Creek and Flat Rock Creek.	Possible	Yes	The HHERA (EnRiskS 2017) reported that there is a level of risk to certain properties within the Braidwood Road Drain sub-catchment. Sufficient information is required to support a baseline before remedial activities are undertaken. This will need to be assessed if further biota sampling is required.
Jervis Bay Catchment	Former firefighting training areas <ul style="list-style-type: none"> – Firefighting training site (former) (AEC 2) – AFFF exercise area (AEC 24d) Sewerage Treatment Plan (STP) <ul style="list-style-type: none"> – STP and effluent storage dam (AEC 15) 	On-base					
		PFAS impacted soil	Direct contact and incidental ingestion through exposure during excavation and construction activities as well as dispersion of soil and dust from wind and water.	Defence personnel, contractors and site visitors	Possible	Yes	The majority of soil samples analysed do not exceed the commercial/industrial screening criteria. The HHERA concluded the risk was low and acceptable to worker exposure (EnRiskS 2017). However, there are many AECs with limited data and further investigation is required to understand the risk profile, such as the proposed new AEC 35.
		PFAS impacted surface water and sediment	Direct contact and incidental ingestion through overland transport of particulate and dissolved PFAS via surface water including Parma Creek, Yerriyong Gully and Currumbene Creek.	Defence personnel, contractors and site visitors	Possible	Yes	PFAS concentrations in on-base surface water has exceeded recreational screening criteria. As surface water is not used on-base and the majority of sediments were below the human health screening criteria, risks to on-base recreational users is not relevant. The HHERA concluded the risk was low and acceptable to worker exposure (EnRiskS 2017). Further information is required on the contribution of surface water runoff from the STP irrigation areas through the mass flux.

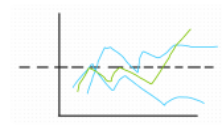
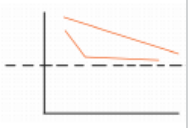
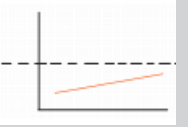
Source Area	Secondary Source	Pathway	Receptor	SPR linkage	Further investigation and/or management	Comments
Trade waste systems – Associated with Hanger J (proposed new AEC 35)						Further characterisation to the south of the east-west runway. This is mainly in the area near the STP (AEC 15) and former fire training area Engine test facility former (AEC23) and the AFFF exercise area (AEC 24d). Limited characterisation of the surface water run-off leaving these areas to the 5 upper tributaries of Yerriyong Gully Creek.
	PFAS impacted groundwater	Direct contact and incidental ingestion through transport of PFAS via perched groundwater to surface water	Defence personnel, contractors and site visitors	Unlikely	Yes	<p>PFAS concentrations in on-base groundwater have exceeded above recreational and drinking water criteria. However, groundwater is not used on-base and therefore there is no pathway.</p> <p>Further investigations from the STP overflow and irrigation areas are required to understand the contribution to groundwater in this area.</p> <p>Further investigation is recommended to assess the extent of groundwater impacts radiating from the trade-waste tank associated with Hangar J. Additional trade-waste systems across the site should also be considered for further characterisation.</p>
	Off-base					
	PFAS impacted soil	Direct contact and incidental ingestion through exposure to agricultural activities and land use as well as dispersion of soil and dust from wind and water.	Residents at neighbouring properties	Unlikely	No	The majority of soil samples collected were below the adopted screening criteria and considered sufficient to assess risk.
	Uptake of PFAS by biota through ingestion	Consumers of home grown produce	Likely	Yes	<p>If home grown produce is being consumed on properties that are identified where irrigation is through water containing PFAS then more data is required. At the time of the HHERA no home produce was being grown.</p> <p>There are currently two locations (private properties) within the Upper Currumbene Creek sub-catchment that exceeded that exceed the residential with garden /accessible soil (HIL A) criteria.</p>	

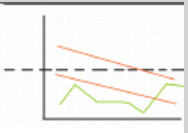
Source Area	Secondary Source	Pathway	Receptor	SPR linkage	Further investigation and/or management	Comments
						Review and understand previous correspondence / engagement with the property owners to date to understand the current community understanding.
		Uptake of PFAS by biota through bioaccumulation .	Terrestrial and aquatic ecosystems	Possible	Yes	A HHERA was completed in 2018 (EnRiskS 2018) and the potential for adverse effects to the environment through bioaccumulation cannot be excluded.
	PFAS impacted surface water and sediment	Direct contact and ingestion through overland transport of particulate and dissolved PFAS via surface water including Parma Creek, Yerriyong Gully and Currumbene Creek.	Residents at neighbouring properties	Possible	Yes	Surface water results from the OMP exceed the recreational criteria in the Parma Creek, Yerriyong Gully and Currumbene Creek sub-catchments close to the base. However, surface water is not used at the neighbouring properties and recreational use only occurs at the confluence of Parma and Currumbene Creeks. The HHERA (EnRiskS 2017) concluded that the risk from surface water from recreation were low. The OMP (AECOM 2024) states that the results from the OMP considers the conclusions from the HHERA and CSM still supports the current risk profile.
Recreational users of surface water			Unlikely	No		
Terrestrial and aquatic ecosystems in downstream receiving environments including Yerriyong Gully and Currumbene Creek.			Possible	Yes		
	Uptake of PFAS in water and sediment by biota through ingestion		Livestock (through ingestion of PFAS impacted surface water and pasture).	Likely	Yes	The HHERA (EnRiskS 2017) reported that there is a level of risk to certain properties within the Upper Currumbene Creek sub-catchment. Currently these risks are being managed through administrative actions, that prevents consumption of livestock on specific properties. A formal review of the HHERA and HHERA addendum is recommended to ascertain if further biota sampling is required for baseline data.
			Consumer of home slaughtered meat/offal, milk and/or eggs.		Yes	

Source Area		Secondary Source	Pathway	Receptor	SPR linkage	Further investigation and/or management	Comments	
				Consumer of home grown produce irrigated with surface water.		Yes		
				Aquatic species and livestock consumed by humans		Yes		
		PFAS impacted groundwater	Direct contact and ingestion through vertical migration of particulate and dissolved PFAS to groundwater	Land user downgradient of groundwater.	Unlikely	Yes		PFAS impacted groundwater exceeding the drinking water guidelines was reported at the upper Currumbene Creek sub-catchment. The previous water use survey (Aurecon 2017) indicated that bore water was not used for domestic or agricultural purposes. This water use survey is required to be repeated to understand the current use of groundwater in the off-base properties.
			Direct contact and ingestion through transport of PFAS via groundwater to surface water	Land user downgradient of groundwater.	Unlikely	Yes		Risks are low and acceptable with the exception of the Upper Currumbene Creek near MW026.
				Terrestrial and aquatic ecosystems in downstream receiving environments including Yerryong Gully and Currumbene Creek.	Possible	Yes	For the terrestrial and aquatic ecosystems the HHERA reported that there is a level of risk to certain properties within the Upper Currumbene Creek sub-catchment. Sufficient information is required to support a baseline before remedial activities are undertaken. This will need to be assessed if further biota sampling is required.	

Table B2 Assessment outcomes and associated responses – ‘Pathway’ and ‘receptor’ locations

Trigger	Assessment outcome (showing examples of time series graphs)	Initial actions to be undertaken in OMR	Secondary actions to be considered as recommendations to be implemented after OMR
<p>New maximum and / or first time exceedance of the applicable screening criteria.</p>	<p>Upward trend, and exceedance</p> 	<p>Consider:</p> <ul style="list-style-type: none"> – Is receptor exposure possible (ie. Is the monitoring location off-base)? – Is the exceedance greater than the potential laboratory error margins (ie. A true exceedance)? – Is the trend valid (ie. Greater than three analytical results)? <p>Proceed to secondary actions.</p>	<p>If yes to any of the initial actions:</p> <ul style="list-style-type: none"> – Confirm if trend is observed in downgradient pathway / receptor locations. – Consider increasing monitoring frequency and/or monitoring network. – Re-evaluate risk assessment for that SPR and/or implement management measures. – Assess why upward trend is occurring in context of site (e.g. activities, climatic events) and other locations in catchment / SPR. – Continue monitoring as part of OMP. <p>If no to all of the initial actions:</p> <ul style="list-style-type: none"> – Assess why upward trend is occurring in context of site (e.g. activities, climatic events) and other locations in catchment / SPR. – Continue monitoring as part of OMP.
	<p>No trend and exceedance</p> 	<p>Undertake further assessment, considering if the data has a new maximum (ie compared to historical data) and comparing the data to other locations in the same catchment. Outcomes are listed adjacent:</p>	<p>No new maximum and data within population.</p>  <p>Continue monitoring as per OMP.</p> <p>New maximum greater than criteria, but within population (ie. potential risk at individual location, but limited evidence of change within catchment area)</p>  <p>Consider:</p> <ul style="list-style-type: none"> – Is there a plausible SPR linkage?

Trigger	Assessment outcome (showing examples of time series graphs)	Initial actions to be undertaken in OMR	Secondary actions to be considered as recommendations to be implemented after OMR
		<ul style="list-style-type: none"> - Are other comparable locations displaying similar patterns? <p>Proceed to secondary actions.</p> <p>New maximum greater than criteria, outside population (ie. potential risk at individual location, and evidence of change)</p>  <p>Consider:</p> <ul style="list-style-type: none"> - Is there a plausible SPR linkage? - Are upgradient and/or downgradient locations also showing change? - Are other comparable locations displaying similar patterns? <p>Proceed to secondary actions.</p>	<p>If yes to any of the initial actions:</p> <ul style="list-style-type: none"> - Consider need for risk assessment. - Assess why change may have occurred in context of site (e.g. activities, climatic events). - Consider increasing monitoring frequency and/or monitoring net work. - Continue monitoring as per OMP. <p>If no to all initial actions:</p> <ul style="list-style-type: none"> - Assess why change may have occurred in context of site (e.g. activities, climatic events). - Continue monitoring as per OMP.
	<p>Downward trend and exceedance</p> 	<p>Continue monitoring as per OMP</p>	<p>-</p>
	<p>Upward trend, no exceedance</p> 	<ul style="list-style-type: none"> - Assess why change may have occurred in context of site (e.g. activities, climatic events). - Are other comparable locations displaying similar patterns? If yes, proceed to secondary actions. - Continue monitoring as per OMP. 	<p>Consider increasing monitoring frequency and/or monitoring net work.</p>

Trigger	Assessment outcome (showing examples of time series graphs)	Initial actions to be undertaken in OMR	Secondary actions to be considered as recommendations to be implemented after OMR
	No trend or downward trend, no exceedance 	Continue monitoring as per OMP.	–
Site characteristics review	Land use, surface water use and/or groundwater use changes are identified	Assess if there are new, plausible SPR linkages associated with the change, and if these linkages may represent a change in the site risk profile. If no plausible SPR linkages are identified, continue monitoring as per the OMP. If new SPR linkages are identified, proceed to secondary actions. Review the monitoring network to confirm that it is adequate for the change in circumstances.	Undertake sampling of revised monitoring network prior to the next scheduled OMP event. Consider further data gap assessment of the changed circumstances, including land / water use surveys. Consider the need for risk assessment.

Appendix C

Analytical result tables

EQL	Field data			Field Parameters				
	Total Well Depth	Standing Water Level	Standing Water Level	pH (Field)	Electrical conductivity (Field)	Dissolved Oxygen (Field)	Redox (Field)	Temperature (Field)
	m bTOC	m bTOC	mAHD	pH units	µS/cm	mg/L	mV	°C
EQL	-	-		0.01	0.1	0.01	0.01	0.1

Catchment	SPR Type	Location	Date/Time	Field ID	Sample Comments	Sample method	Sample depth								
Braidwood Road drain	Source	MW001	13 Feb 2025 12:47PM	0026_MW001_250212	Clear, no odour or sheen, some brown sediment in bottom of HS.	Hydrasleeve	6.5	9.98	1.29	115.34	6.84	5,228	0.77	522.1	22
Braidwood Road drain	Source	MW002	13 Feb 2025 12:33PM	0026_MW002_250212	Clear, no odour or sheen, no turbidity.	Hydrasleeve	4	9.60	1.33	113.01	6.57	2,751	2.25	565	22
Braidwood Road drain	Source	MW012	12 Feb 2025 08:43AM	0026_MW012_250212	Clear, no odour or seen, slight pale yellow colour.	Hydrasleeve	10	12.99	0.27	103.82	6.13	205.1	1.32	185.5	19.9
Braidwood Road drain	Pathway	MW018	13 Feb 2025 07:00AM	0026_MW018_250213	Clear to pale brown at base of HS, low turbidity, no sheen, no odour, trace sediment in base.	Hydrasleeve	10	13.83	1.14	99.64	6.78	5,798	1.07	375.9	18.4
Braidwood Road drain	Pathway	MW044	13 Feb 2025 07:35AM	0026_MW044_250213	Clear, pale yellow colour, no odour or sheen.	Hydrasleeve	7	7.90	2.59	109.33	6.58	320.5	0.87	402.7	19.5
Braidwood Road drain	Receptor	MW024	12 Feb 2025 09:25AM	0026_MW024_250211	Pale brown, low turbidity, some sediment, no odour, no sheen.	Hydrasleeve	4	10.80	0.8	96.22	6.8	938	0.8	73.7	21.4
Braidwood Road drain	Receptor	MW031	11 Feb 2025 08:59AM	0026_MW031_250211	Pale orange colour, no odour or sheen. Orange sediment towards base of Hydrasleeve.	Hydrasleeve	4	5.82	1.74	101.65	4.93	16,205	1.4	220.4	21.7
Braidwood Road drain perched	Source	MW012P	12 Feb 2025 08:29AM	0026_MW012P_250212	Clear, no odour or sheen, orange-brown flocculation at base of sleeve.	Hydrasleeve	4.5	5.30	0.58	103.51	4.81	1,348	0.84	232.8	20.9
Cabbage Tree Creek	Receptor	MW072	13 Feb 2025 07:50AM	0026_MW072_250213	Clear, pale yellow colour, no odour or sheen, no sediment. Bubbles and foams up when sampling water.	Hydrasleeve	6	7.65	3.41	104.70	6.63	6,565	2.65	441.6	20
Cabbage Tree Creek	Receptor	MW073	13 Feb 2025 08:15AM	0026_MW073_250213	Pale yellow/ brown colour, no odour or sheen, no sediment.	Hydrasleeve	10	11.41	7.41	113.51	6.88	3,395	1.81	289.5	19.7
Flat Rock Creek	Receptor	MW004	13 Feb 2025 06:40AM	0026_MW004_250213	Clear, slightly cloudy, low turbidity, no sheen, no odour, trace sediment in base.	Hydrasleeve	7	9.45	4.07	110.07	7.08	2,349	1.91	18.7	18.7
Upper Currumbene Creek	Source	MW005	12 Feb 2025 10:27AM	0026_MW005_250212	Clear, non-turbid, pale brown towards base, no sheen, no odour, trace sediment.	Hydrasleeve	6	6.54	5.34	93.78	6.55	788	1.3	-66.9	18.9
Upper Currumbene Creek	Source	MW029	12 Feb 2025 09:40AM	0026_MW029_250212	Clear, pale grey towards base, distinct organics odour, no sheen, trace sediment.	Hydrasleeve	7	8.37	3.36	106.79	6.57	11,261	0.84	107.2	19.7
Upper Currumbene Creek	Source	MW104	12 Feb 2025 02:25PM	0026_MW104_250212	Slightly cloudy, no odour or sheen.	Hydrasleeve	8	9.23	6.22	103.89	5.03	803	4.09	484.2	20.7
Upper Currumbene Creek	Source	MW117	12 Feb 2025 10:12AM	0026_MW117_250212	Cloudy brown, turbid, no odour or sheen. Very low water level, samples collected.	Bailer	4.4	4.44	4.23	103.90	5.93	287.3	2.43	72.3	22.7
Upper Currumbene Creek	Source	MW213	13 Feb 2025 12:15PM	0026_MW213_250213	Clear, non-turbid, no odour, no sheen, no sediment.	Hydrasleeve	5	6.04	1.48	108.43	4.66	308.1	2.58	549.8	23.1
Upper Currumbene Creek	Pathway	MW038	12 Feb 2025 11:17AM	0026_MW038_250212	Clear, non-turbid, no sheen, no odour, trace sediment at base of HS.	Hydrasleeve	7.6	7.74	6.07	129.06	6.83	1,021	3.85	432.5	20.3
Upper Currumbene Creek	Receptor	MW003	12 Feb 2025 09:25AM	0026_MW003_250212	Clear, non turbid, no odour, no sheen, trace particulate matter.	Hydrasleeve	18	22.20	13.78	98.56	6.57	9,091	1.03	64.5	19.1
Upper Currumbene Creek	Receptor	MW026	13 Feb 2025 08:59AM	0026_MW026_250213	Clear, decaying organic odour, no sheen, some suspended particles within water column. Some persistent bubbles forming at surface of water. Fast recharge, >3 well volumes purged, parameters stable, samples collected.	Bailer	6	8.54	5.44	26.25	6.8	721	1.42	4.8	17.1
Yerriyong Gully	Source	MW006	12 Feb 2025 12:30PM	0026_MW006_250212	Pale brown, no odour, no sheen, suspended solids, low turbidity.	Hydrasleeve	7.5	8.02	5.38	71.85	5.85	331.3	0.97	416.5	19.6
Yerriyong Gully	Source	MW008	12 Feb 2025 06:58AM	0026_MW008_250212	Pale brown, slightly cloudy, no odour or sheen, low turbidity.	Hydrasleeve	8.75	9.49	6.93	97.99	5.29	299.6	1.46	319.5	19.7
Yerriyong Gully	Source	MW009	12 Feb 2025 07:52AM	0026_MW009_250212	Clear, some suspended particles, mild organic odour, no sheen.	Hydrasleeve	13	15.98	0.54	116.10	6.13	415	0.66	48	19.4
Yerriyong Gully	Source	MW015	12/02/2025 01:36PM	0026_MW015_250212	Clear to pale brown at base, non- turbid, no sheen, no odour, trace sediment.	Hydrasleeve	10	13.30	2.04	117.14	6.22	379.1	1.39	427	19.4
Yerriyong Gully	Source	MW016	12 Feb 2025 02:11PM	0026_MW016_250212	Pale grey towards the base of sleeve, no odour or sheen, low turbidity.	Hydrasleeve	8	6.93	0.97	125.07	5.84	6,655	1.29	168.1	21.2
Yerriyong Gully	Source	MW017	12 Feb 2025 07:22AM	0026_MW017_250212	Clear, no odour or sheen, bottomed 25% of sleeve becoming pale brown.	Hydrasleeve	11	14.28	1.09	111.39	4.47	457.2	1.19	321.5	19.1
Yerriyong Gully	Source	MW045	12 Feb 2025 02:47PM	0026_MW045_250212	Pale pink darkening towards base of sleeve. no odour or sheen, low turbidity.	Hydrasleeve	7	9.27	2.68	121.80	4.76	271	1.93	397.8	20.8
Yerriyong Gully	Pathway	MW039	13 Feb 2025 12:16PM	0026_MW039_250211	Cloudy pale brown, no odour or sheen, low turbidity.	Bailer	2	2.40	1.31	73.40	6.28	3,537	1.16	172.2	21.9
Yerriyong Gully perched	Source	MW009P	12 Feb 2025 08:07AM	0026_MW009P_250212	Clear, pale orange brown towards base of sleeve, no odour or sheen.	Hydrasleeve	2	2.42	0.66	115.97	4.76	172.4	0.99	208.9	21.4

Notes

mV milliVolts
mg/L milligrams per Litre
°C degrees Celsius
µS/cm microSiemens per centimetre



Appendix C
Table C2
OMP Monitoring Groundwater Analytical Results 2025

	PFAS				PFAS - Sums				
	Perfluorooctane sulfonic acid (PFOS) µg/L	Perfluorohexane sulfonic acid (PFHxS) µg/L	Perfluorobutane sulfonic acid (PFBS) µg/L	Perfluorooctanoic acid (PFOA) µg/L	PFAS (Sum of Total) µg/L	PFAS (Sum of Total)(WA DER List) µg/L	Sum of US EPA PFAS (PFOS + PFOA)* µg/L	Sum of PFHxS and PFOS µg/L	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)* µg/L
EQL	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
ADWG 2011 Health (v4.0 updated June 2025)	0.008	0.03	1	0.2					
PFAS NEMP 3.0 2025 Freshwater 99%	0.00023			19					
PFAS NEMP 3.0 2025 Recreational water quality	2	2		10				2	

Catchment	SPR	Location	Field ID	Date	Sample Type	Perfluorooctane sulfonic acid (PFOS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluorobutane sulfonic acid (PFBS)	Perfluorooctanoic acid (PFOA)	PFAS (Sum of Total)	PFAS (Sum of Total)(WA DER List)	Sum of US EPA PFAS (PFOS + PFOA)*	Sum of PFHxS and PFOS	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*
Braidwood Road drain	Source	MW001	0026_MW001_250212	12 Feb 2025	Normal	0.33	0.06	<0.02	<0.01	0.39	0.39	-	0.39	-
Braidwood Road drain	Source	MW002	0026_MW002_250212	12 Feb 2025	Normal	0.03	<0.01	<0.02	<0.01	0.03	0.03	-	0.03	-
Braidwood Road drain	Source	MW012	0026_MW012_250212	12 Feb 2025	Normal	0.06	0.04	<0.02	<0.01	0.10	0.10	-	0.10	-
Braidwood Road drain	Source	MW012	0026_QC102_250213	13 Feb 2025	Field_D	0.06	0.04	<0.02	<0.01	0.10	0.10	-	0.10	-
Braidwood Road drain	Source	MW012	0026_QC202_25013	13 Feb 2025	Interlab_D	0.08	0.05	<0.01	<0.01	0.14	0.14	0.08	0.13	0.13
Braidwood Road drain	Pathway	MW018	0026_MW018_250213	13 Feb 2025	Normal	0.02	<0.01	<0.02	<0.01	0.07	0.07	-	0.02	-
Braidwood Road drain	Pathway	MW018	0026_QC103_250213	13 Feb 2025	Field_D	<0.01	<0.01	<0.02	<0.01	0.04	0.04	-	<0.01	-
Braidwood Road drain	Pathway	MW018	0026_QC203_25013	13 Feb 2025	Interlab_D	0.01	<0.01	<0.01	<0.01	<0.1	0.07	0.01	0.01	0.01
Braidwood Road drain	Pathway	MW044	0026_MW044_250213	13 Feb 2025	Normal	0.07	0.11	0.02	<0.01	0.22	0.22	-	0.18	-
Braidwood Road drain	Receptor	MW024	0026_MW024_250211	11 Feb 2025	Normal	0.45	0.11	<0.02	0.01	0.59	0.59	-	0.56	-
Braidwood Road drain	Receptor	MW031	0026_MW031_250211	11 Feb 2025	Normal	<0.01	0.07	0.11	<0.01	0.31	0.20	-	0.07	-
Braidwood Road drain perched	Source	MW012P	0026_MW012P_250212	12 Feb 2025	Normal	0.10	0.01	<0.02	<0.01	0.11	0.11	-	0.11	-
Cabbage Tree Creek	Receptor	MW072	0026_MW072_250213	13 Feb 2025	Normal	<0.01	<0.01	<0.02	<0.01	<0.01	<0.01	-	<0.01	-
Cabbage Tree Creek	Receptor	MW073	0026_MW073_250213	13 Feb 2025	Normal	<0.01	<0.01	<0.02	<0.01	<0.01	<0.01	-	<0.01	-
Flat Rock Creek	Receptor	MW004	0026_MW004_250213	13 Feb 2025	Normal	<0.01	<0.01	<0.02	<0.01	<0.01	<0.01	-	<0.01	-
Upper Currumbene Creek	Source	MW005	0026_MW005_250212	12 Feb 2025	Normal	7.71	5.55	0.81	0.43	18.1	16.7	-	13.3	-
Upper Currumbene Creek	Source	MW029	0026_MW029_250212	12 Feb 2025	Normal	0.62	0.94	0.48	0.06	3.86	3.23	-	1.56	-
Upper Currumbene Creek	Source	MW104	0026_MW104_250212	12 Feb 2025	Normal	72.2	82.5	10.3	5.78	214	193	-	155	-
Upper Currumbene Creek	Source	MW104	0026_MW104_250526	26 May 2025	Normal	176	93.8	9.61	7.78	336	309	-	270	-
Upper Currumbene Creek	Source	MW117	0026_MW117_250212	12 Feb 2025	Normal	0.43	0.57	0.07	0.02	1.29	1.20	-	1.00	-
Upper Currumbene Creek	Source	MW213	0026_MW213_250213	13 Feb 2025	Normal	4.53	5.01	0.69	0.20	12.8	11.5	-	9.54	-
Upper Currumbene Creek	Source	MW213	0026_QC104_250213	13 Feb 2025	Field_D	3.44	4.81	0.63	0.18	11.2	9.99	-	8.25	-
Upper Currumbene Creek	Source	MW213	0026_QC204_25013	13 Feb 2025	Interlab_D	3.8	6.5	0.72	0.21	13.6	12.37	4.01	10.3	10.51
Upper Currumbene Creek	Pathway	MW038	0026_MW038_250212	12 Feb 2025	Normal	0.04	0.02	0.03	<0.01	0.21	0.21	-	0.06	-
Upper Currumbene Creek	Receptor	MW003	0026_MW003_250212	12 Feb 2025	Normal	<0.01	<0.01	<0.02	<0.01	<0.01	<0.01	-	<0.01	-
Upper Currumbene Creek	Receptor	MW026	0026_MW026_250213	13 Feb 2025	Normal	1.80	2.47	0.31	0.11	5.87	5.38	-	4.27	-
Yerriyong Gully	Source	MW006	0026_MW006_250212	12 Feb 2025	Normal	8.79	4.61	0.34	0.23	14.0	13.2	-	11.4	-
Yerriyong Gully	Source	MW008	0026_MW008_250212	12 Feb 2025	Normal	2.44	6.78	0.65	0.25	13.2	12.0	-	9.22	-
Yerriyong Gully	Source	MW008	0026_QC101_250212	12 Feb 2025	Field_D	3.59	10.4	1.00	0.39	20.5	18.5	-	14.0	-
Yerriyong Gully	Source	MW008	0026_QC201_25012	12 Feb 2025	Interlab_D	4.2	14	1.3	0.43	25.15	23.06	4.63	18.2	18.63
Yerriyong Gully	Source	MW009	0026_MW009_250212	12 Feb 2025	Normal	94.5	46.5	8.60	7.60	209	193	-	141	-
Yerriyong Gully	Source	MW015	0026_MW015_250212	12 Feb 2025	Normal	3.35	22.3	3.47	0.48	38.5	32.6	-	25.6	-
Yerriyong Gully	Source	MW016	0026_MW016_250212	12 Feb 2025	Normal	<0.01	<0.01	<0.02	<0.01	<0.01	<0.01	-	<0.01	-
Yerriyong Gully	Source	MW017	0026_MW017_250212	12 Feb 2025	Normal	4.21	15.6	1.42	0.49	28.2	25.4	-	19.8	-
Yerriyong Gully	Source	MW045	0026_MW045_250212	12 Feb 2025	Normal	0.06	0.14	<0.02	<0.01	0.20	0.20	-	0.20	-
Yerriyong Gully	Pathway	MW039	0026_MW039_250211	11 Feb 2025	Normal	0.05	<0.01	<0.02	<0.01	0.05	0.05	-	0.05	-
Yerriyong Gully perched	Source	MW009P	0026_MW009P_250212	12 Feb 2025	Normal	173	40.2	4.66	7.04	282	267	-	213	-



Appendix C
Table C2
OMP Monitoring Groundwater Analytical Results 2025

	PFAS				PFAS - Sums				
	Perfluorooctane sulfonic acid (PFOS) µg/L	Perfluorohexane sulfonic acid (PFHxS) µg/L	Perfluorobutane sulfonic acid (PFBS) µg/L	Perfluorooctanoic acid (PFOA) µg/L	PFAS (Sum of Total) µg/L	PFAS (Sum of Total)(WA DER List) µg/L	Sum of US EPA PFAS (PFOS + PFOA)* µg/L	Sum of PFHxS and PFOS µg/L	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)* µg/L
EQL	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
ADWG 2011 Health (v4.0 updated June 2025)	0.008	0.03	1	0.2					
PFAS NEMP 3.0 2025 Freshwater 99%	0.00023			19					
PFAS NEMP 3.0 2025 Recreational water quality	2	2		10				2	
Statistics									
Number of Results	37	37	37	37	37	37	4	37	4
Number of Detects	30	27	20	18	31	32	4	31	4
Minimum Concentration	0.01	0.01	<0.01	0.01	<0.01	<0.01	0.01	0.01	0.01
Minimum Detect	0.01	0.01	0.02	0.01	0.03	0.03	0.01	0.01	0.01
Maximum Concentration	176	93.8	10.3	7.78	336	309	4.63	270	18.63
Maximum Detect	176	93.8	10.3	7.78	336	309	4.63	270	18.63
Average Concentration *	15	9.8	1.2	0.86	34	31	2.2	25	7.3
Geometric Average *	0.34	0.3	0.096	0.041	0.91	0.87	0.35	0.62	0.71
Median Concentration *	0.33	0.11	0.03	0.005	0.39	0.39	2.045	0.39	5.32
Standard Deviation *	43	22	2.7	2.2	82	76	2.5	63	9
Geometric Standard Deviation *	26	33	13	13	32	30	21	33	37
95% UCL (Student's-t) *	27.19	15.86	1.97	1.471	56.64	52.23	5.102	42.45	17.92
Number of Env Standard Exceedances	37	25	8	13	0	0	0	15	0
Number of Env Standard Exceedances (Detects Only)	30	25	8	13	0	0	0	15	0
% of Detects	81	73	54	49	84	86	100	84	100
% of Non-Detects	19	27	46	51	16	14	0	16	0
% of Detects at or above Env Standards	81	68	22	35	0	0	0	41	0
% of Results Below Env Standards or Non-Detect	19	32	78	65	100	100	100	59	100

* A Non Detect Multiplier of 0.5 has been applied.

Environmental Standards

NHMRC, June 2025, ADWG 2011 Health (v4.0 updated June 2025)
HEPA, March 2025, PFAS NEMP 3.0 2025 Freshwater 99%
HEPA, March 2025, PFAS NEMP 3.0 2025 Recreational water quality



Appendix C
Table C2
OMP Monitoring Groundwater Analytical Results 2025

	Perfluorodecane sulfonic acid (PFDS)	Perfluoronane sulfonate (PFNS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluoropropane sulfonic acid (PFPrS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorobutanoic acid (PFBA)	Perfluorodecanoic acid (PFDA)	Perfluorododecanoic acid (PFDoDA)	Perfluoroheptanoic acid (PFHpA)
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL	0.01	0.01	0.01	0.01	0.01	0.05	0.01	0.01	0.01
ADWG 2011 Health (v4.0 updated June 2025)									
PFAS NEMP 3.0 2025 Freshwater 99%									
PFAS NEMP 3.0 2025 Recreational water quality									

Catchment	SPR	Location	Field ID	Date	Sample Type	Perfluorodecane sulfonic acid (PFDS)	Perfluoronane sulfonate (PFNS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluoropropane sulfonic acid (PFPrS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorobutanoic acid (PFBA)	Perfluorodecanoic acid (PFDA)	Perfluorododecanoic acid (PFDoDA)	Perfluoroheptanoic acid (PFHpA)
Braidwood Road drain	Source	MW001	0026_MW001_250212	12 Feb 2025	Normal	<0.02	-	<0.02	-	<0.02	<0.1	<0.02	<0.02	<0.02
Braidwood Road drain	Source	MW002	0026_MW002_250212	12 Feb 2025	Normal	<0.02	-	<0.02	-	<0.02	<0.1	<0.02	<0.02	<0.02
Braidwood Road drain	Source	MW012	0026_MW012_250212	12 Feb 2025	Normal	<0.02	-	<0.02	-	<0.02	<0.1	<0.02	<0.02	<0.02
Braidwood Road drain	Source	MW012	0026_QC102_250213	13 Feb 2025	Field_D	<0.02	-	<0.02	-	<0.02	<0.1	<0.02	<0.02	<0.02
Braidwood Road drain	Source	MW012	0026_QC202_25013	13 Feb 2025	Interlab_D	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01
Braidwood Road drain	Pathway	MW018	0026_MW018_250213	13 Feb 2025	Normal	<0.02	-	<0.02	-	<0.02	<0.1	<0.02	<0.02	<0.02
Braidwood Road drain	Pathway	MW018	0026_QC103_250213	13 Feb 2025	Field_D	<0.02	-	<0.02	-	<0.02	<0.1	<0.02	<0.02	<0.02
Braidwood Road drain	Pathway	MW018	0026_QC203_25013	13 Feb 2025	Interlab_D	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01
Braidwood Road drain	Pathway	MW044	0026_MW044_250213	13 Feb 2025	Normal	<0.02	-	<0.02	-	<0.02	<0.1	<0.02	<0.02	<0.02
Braidwood Road drain	Receptor	MW024	0026_MW024_250211	11 Feb 2025	Normal	<0.02	-	<0.02	-	<0.02	<0.1	<0.02	<0.02	<0.02
Braidwood Road drain	Receptor	MW031	0026_MW031_250211	11 Feb 2025	Normal	<0.02	-	<0.02	-	0.07	<0.1	<0.02	<0.02	<0.02
Braidwood Road drain perched	Source	MW012P	0026_MW012P_250212	12 Feb 2025	Normal	<0.02	-	<0.02	-	<0.02	<0.1	<0.02	<0.02	<0.02
Cabbage Tree Creek	Receptor	MW072	0026_MW072_250213	13 Feb 2025	Normal	<0.02	-	<0.02	-	<0.02	<0.1	<0.02	<0.02	<0.02
Cabbage Tree Creek	Receptor	MW073	0026_MW073_250213	13 Feb 2025	Normal	<0.02	-	<0.02	-	<0.02	<0.1	<0.02	<0.02	<0.02
Flat Rock Creek	Receptor	MW004	0026_MW004_250213	13 Feb 2025	Normal	<0.02	-	<0.02	-	<0.02	<0.1	<0.02	<0.02	<0.02
Upper Currumbene Creek	Source	MW005	0026_MW005_250212	12 Feb 2025	Normal	<0.02	-	0.31	-	0.74	0.2	<0.02	<0.02	0.19
Upper Currumbene Creek	Source	MW029	0026_MW029_250212	12 Feb 2025	Normal	<0.02	-	0.02	-	0.39	<0.1	<0.02	<0.02	0.09
Upper Currumbene Creek	Source	MW104	0026_MW104_250212	12 Feb 2025	Normal	<0.02	-	3.87	-	11.6	1.6	<0.02	<0.02	2.71
Upper Currumbene Creek	Source	MW104	0026_MW104_250526	26 May 2025	Normal	<0.02	-	7.35	-	12.6	1.4	<0.02	<0.02	3.39
Upper Currumbene Creek	Source	MW117	0026_MW117_250212	12 Feb 2025	Normal	<0.02	-	<0.02	-	0.07	<0.1	<0.02	<0.02	<0.02
Upper Currumbene Creek	Source	MW213	0026_MW213_250213	13 Feb 2025	Normal	<0.02	-	0.22	-	0.75	<0.1	<0.02	<0.02	0.10
Upper Currumbene Creek	Source	MW213	0026_QC104_250213	13 Feb 2025	Field_D	<0.02	-	0.18	-	0.77	<0.1	<0.02	<0.02	0.10
Upper Currumbene Creek	Source	MW213	0026_QC204_25013	13 Feb 2025	Interlab_D	<0.01	<0.01	0.18	0.30	0.75	0.07	<0.01	<0.01	0.11
Upper Currumbene Creek	Pathway	MW038	0026_MW038_250212	12 Feb 2025	Normal	<0.02	-	<0.02	-	<0.02	<0.1	<0.02	<0.02	<0.02
Upper Currumbene Creek	Receptor	MW003	0026_MW003_250212	12 Feb 2025	Normal	<0.02	-	<0.02	-	<0.02	<0.1	<0.02	<0.02	<0.02
Upper Currumbene Creek	Receptor	MW026	0026_MW026_250213	13 Feb 2025	Normal	<0.02	-	0.08	-	0.25	<0.1	<0.02	<0.02	0.07
Yerriyong Gully	Source	MW006	0026_MW006_250212	12 Feb 2025	Normal	<0.02	-	0.21	-	0.42	0.1	<0.02	<0.02	0.10
Yerriyong Gully	Source	MW008	0026_MW008_250212	12 Feb 2025	Normal	<0.02	-	0.29	-	0.65	<0.1	<0.02	<0.02	0.19
Yerriyong Gully	Source	MW008	0026_QC101_250212	12 Feb 2025	Field_D	<0.02	-	0.47	-	1.22	0.1	<0.02	<0.02	0.32
Yerriyong Gully	Source	MW008	0026_QC201_25012	12 Feb 2025	Interlab_D	<0.01	<0.01	0.44	0.35	1.3	0.10	<0.01	<0.01	0.32
Yerriyong Gully	Source	MW009	0026_MW009_250212	12 Feb 2025	Normal	<0.02	-	4.41	-	7.15	3.4	<0.02	<0.02	4.16
Yerriyong Gully	Source	MW015	0026_MW015_250212	12 Feb 2025	Normal	<0.02	-	0.70	-	3.23	0.2	<0.02	<0.02	0.31
Yerriyong Gully	Source	MW016	0026_MW016_250212	12 Feb 2025	Normal	<0.02	-	<0.02	-	<0.02	<0.1	<0.02	<0.02	<0.02
Yerriyong Gully	Source	MW017	0026_MW017_250212	12 Feb 2025	Normal	<0.02	-	0.45	-	1.77	0.4	<0.02	<0.02	0.38
Yerriyong Gully	Source	MW045	0026_MW045_250212	12 Feb 2025	Normal	<0.02	-	<0.02	-	<0.02	<0.1	<0.02	<0.02	<0.02
Yerriyong Gully	Pathway	MW039	0026_MW039_250211	11 Feb 2025	Normal	<0.02	-	<0.02	-	<0.02	<0.1	<0.02	<0.02	<0.02
Yerriyong Gully perched	Source	MW009P	0026_MW009P_250212	12 Feb 2025	Normal	0.62	-	3.14	-	4.57	3.5	0.44	<0.02	4.11



	Perfluorodecanesulfonic acid (PFDS)	Perfluorononane sulfonate (PFNS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluoropropanesulfonic acid (PFPrS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorobutanoic acid (PFBA)	Perfluorodecanoic acid (PFDA)	Perfluorododecanoic acid (PFDoDA)	Perfluoroheptanoic acid (PFHpA)
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL	0.01	0.01	0.01	0.01	0.01	0.05	0.01	0.01	0.01
ADWG 2011 Health (v4.0 updated June 2025)									
PFAS NEMP 3.0 2025 Freshwater 99%									
PFAS NEMP 3.0 2025 Recreational water quality									
Statistics									
Number of Results	37	4	37	4	37	37	37	37	37
Number of Detects	1	0	16	2	18	11	1	0	16
Minimum Concentration	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01
Minimum Detect	0.62	ND	0.02	0.3	0.07	0.07	0.44	ND	0.07
Maximum Concentration	0.62	<0.01	7.35	0.35	12.6	3.5	0.44	<0.02	4.16
Maximum Detect	0.62	ND	7.35	0.35	12.6	3.5	0.44	ND	4.16
Average Concentration *	0.026	0.005	0.61	0.16	1.3	0.33	0.021	0.0095	0.46
Geometric Average *	0.01	0.005	0.051	0.04	0.092	0.089	0.01	0.0093	0.045
Median Concentration *	0.01	0.005	0.01	0.1525	0.01	0.05	0.01	0.01	0.01
Standard Deviation *	0.1	0	1.5	0.19	3	0.83	0.071	0.0016	1.1
Geometric Standard Deviation *	2.1	1	9.2	11	14	3.5	2	1.2	7.8
95% UCL (Student's-t) *	0.0538	0.005	1.038	0.384	2.14	0.562	0.0407	0.0099	0.769
Number of Env Standard Exceedances	0	0	0	0	0	0	0	0	0
Number of Env Standard Exceedances (Detects Only)	0	0	0	0	0	0	0	0	0
% of Detects	3	0	43	50	49	30	3	0	43
% of Non-Detects	97	100	57	50	51	70	97	100	57
% of Detects at or above Env Standards	0	0	0	0	0	0	0	0	0
% of Results Below Env Standards or Non-Detect	100	100	100	100	100	100	100	100	100

* A Non Detect Multiplier of 0.5 has been applied.

Environmental Standards

NHMRC, June 2025, ADWG 2011 Health (v4.0 updated June 2025)
HEPA, March 2025, PFAS NEMP 3.0 2025 Freshwater 99%
HEPA, March 2025, PFAS NEMP 3.0 2025 Recreational water quality



Appendix C
Table C2
OMP Monitoring Groundwater Analytical Results 2025

	Perfluorohexanoic acid (PFHxA)	Perfluorononanoic acid (PFNA)	Perfluoropentanoic acid (PFPeA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorotridecanoic acid (PFTrDA)	Perfluoroundecanoic acid (PFUnDA)	PFAS - F		
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidooctanoic acid (EtFOSAA)	N-Ethyl perfluorooctane sulfonamidooethanol (EtFOSE)
EQL	0.01	0.01	0.01	0.01	0.01	0.01	0.05	0.02	0.05
ADWG 2011 Health (v4.0 updated June 2025)									
PFAS NEMP 3.0 2025 Freshwater 99%									
PFAS NEMP 3.0 2025 Recreational water quality									

Catchment	SPR	Location	Field ID	Date	Sample Type	Perfluorohexanoic acid (PFHxA)	Perfluorononanoic acid (PFNA)	Perfluoropentanoic acid (PFPeA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorotridecanoic acid (PFTrDA)	Perfluoroundecanoic acid (PFUnDA)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidooctanoic acid (EtFOSAA)	N-Ethyl perfluorooctane sulfonamidooethanol (EtFOSE)
Braidwood Road drain	Source	MW001	0026_MW001_250212	12 Feb 2025	Normal	<0.02	<0.02	<0.02	<0.05	<0.02	<0.02	<0.05	<0.02	<0.05
Braidwood Road drain	Source	MW002	0026_MW002_250212	12 Feb 2025	Normal	<0.02	<0.02	<0.02	<0.05	<0.02	<0.02	<0.05	<0.02	<0.05
Braidwood Road drain	Source	MW012	0026_MW012_250212	12 Feb 2025	Normal	<0.02	<0.02	<0.02	<0.05	<0.02	<0.02	<0.05	<0.02	<0.05
Braidwood Road drain	Source	MW012	0026_QC102_250213	13 Feb 2025	Field_D	<0.02	<0.02	<0.02	<0.05	<0.02	<0.02	<0.05	<0.02	<0.05
Braidwood Road drain	Source	MW012	0026_QC202_25013	13 Feb 2025	Interlab_D	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05
Braidwood Road drain	Pathway	MW018	0026_MW018_250213	13 Feb 2025	Normal	0.02	<0.02	0.03	<0.05	<0.02	<0.02	<0.05	<0.02	<0.05
Braidwood Road drain	Pathway	MW018	0026_QC103_250213	13 Feb 2025	Field_D	0.02	<0.02	0.02	<0.05	<0.02	<0.02	<0.05	<0.02	<0.05
Braidwood Road drain	Pathway	MW018	0026_QC203_25013	13 Feb 2025	Interlab_D	0.03	<0.01	0.03	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05
Braidwood Road drain	Pathway	MW044	0026_MW044_250213	13 Feb 2025	Normal	0.02	<0.02	<0.02	<0.05	<0.02	<0.02	<0.05	<0.02	<0.05
Braidwood Road drain	Receptor	MW024	0026_MW024_250211	11 Feb 2025	Normal	0.02	<0.02	<0.02	<0.05	<0.02	<0.02	<0.05	<0.02	<0.05
Braidwood Road drain	Receptor	MW031	0026_MW031_250211	11 Feb 2025	Normal	0.02	<0.02	<0.02	<0.05	<0.02	<0.02	<0.05	<0.02	<0.05
Braidwood Road drain perched	Source	MW012P	0026_MW012P_250212	12 Feb 2025	Normal	<0.02	<0.02	<0.02	<0.05	<0.02	<0.02	<0.05	<0.02	<0.05
Cabbage Tree Creek	Receptor	MW072	0026_MW072_250213	13 Feb 2025	Normal	<0.02	<0.02	<0.02	<0.05	<0.02	<0.02	<0.05	<0.02	<0.05
Cabbage Tree Creek	Receptor	MW073	0026_MW073_250213	13 Feb 2025	Normal	<0.02	<0.02	<0.02	<0.05	<0.02	<0.02	<0.05	<0.02	<0.05
Flat Rock Creek	Receptor	MW004	0026_MW004_250213	13 Feb 2025	Normal	<0.02	<0.02	<0.02	<0.05	<0.02	<0.02	<0.05	<0.02	<0.05
Upper Currumbene Creek	Source	MW005	0026_MW005_250212	12 Feb 2025	Normal	1.43	<0.02	0.34	<0.05	<0.02	<0.02	<0.05	<0.02	<0.05
Upper Currumbene Creek	Source	MW029	0026_MW029_250212	12 Feb 2025	Normal	0.86	<0.02	0.18	<0.05	<0.02	<0.02	<0.05	<0.02	<0.05
Upper Currumbene Creek	Source	MW104	0026_MW104_250212	12 Feb 2025	Normal	14.7	0.02	2.94	<0.05	<0.02	<0.02	<0.05	<0.02	<0.05
Upper Currumbene Creek	Source	MW104	0026_MW104_250526	26 May 2025	Normal	14.5	0.02	2.87	<0.05	<0.02	<0.02	<0.05	<0.02	<0.05
Upper Currumbene Creek	Source	MW117	0026_MW117_250212	12 Feb 2025	Normal	0.11	<0.02	<0.02	<0.05	<0.02	<0.02	<0.05	<0.02	<0.05
Upper Currumbene Creek	Source	MW213	0026_MW213_250213	13 Feb 2025	Normal	0.86	<0.02	0.14	<0.05	<0.02	<0.02	<0.05	<0.02	<0.05
Upper Currumbene Creek	Source	MW213	0026_QC104_250213	13 Feb 2025	Field_D	0.70	<0.02	0.13	<0.05	<0.02	<0.02	<0.05	<0.02	<0.05
Upper Currumbene Creek	Source	MW213	0026_QC204_25013	13 Feb 2025	Interlab_D	0.83	<0.01	0.13	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05
Upper Currumbene Creek	Pathway	MW038	0026_MW038_250212	12 Feb 2025	Normal	0.08	<0.02	0.04	<0.05	<0.02	<0.02	<0.05	<0.02	<0.05
Upper Currumbene Creek	Receptor	MW003	0026_MW003_250212	12 Feb 2025	Normal	<0.02	<0.02	<0.02	<0.05	<0.02	<0.02	<0.05	<0.02	<0.05
Upper Currumbene Creek	Receptor	MW026	0026_MW026_250213	13 Feb 2025	Normal	0.49	<0.02	0.13	<0.05	<0.02	<0.02	<0.05	<0.02	<0.05
Yerriyong Gully	Source	MW006	0026_MW006_250212	12 Feb 2025	Normal	0.82	<0.02	0.22	<0.05	<0.02	<0.02	<0.05	<0.02	<0.05
Yerriyong Gully	Source	MW008	0026_MW008_250212	12 Feb 2025	Normal	1.45	<0.02	0.22	<0.05	<0.02	<0.02	<0.05	<0.02	<0.05
Yerriyong Gully	Source	MW008	0026_QC101_250212	12 Feb 2025	Field_D	2.33	<0.02	0.33	<0.05	<0.02	<0.02	<0.05	<0.02	<0.05
Yerriyong Gully	Source	MW008	0026_QC201_25012	12 Feb 2025	Interlab_D	2.4	<0.01	0.31	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05
Yerriyong Gully	Source	MW009	0026_MW009_250212	12 Feb 2025	Normal	23.1	0.11	4.66	<0.05	<0.02	<0.02	<0.05	<0.02	<0.05
Yerriyong Gully	Source	MW015	0026_MW015_250212	12 Feb 2025	Normal	2.12	<0.02	0.36	<0.05	<0.02	<0.02	<0.05	<0.02	<0.05
Yerriyong Gully	Source	MW016	0026_MW016_250212	12 Feb 2025	Normal	<0.02	<0.02	<0.02	<0.05	<0.02	<0.02	<0.05	<0.02	<0.05
Yerriyong Gully	Source	MW017	0026_MW017_250212	12 Feb 2025	Normal	2.37	<0.02	0.52	<0.05	<0.02	<0.02	<0.05	<0.02	<0.05
Yerriyong Gully	Source	MW045	0026_MW045_250212	12 Feb 2025	Normal	<0.02	<0.02	<0.02	<0.05	<0.02	<0.02	<0.05	<0.02	<0.05
Yerriyong Gully	Pathway	MW039	0026_MW039_250211	11 Feb 2025	Normal	<0.02	<0.02	<0.02	<0.05	<0.02	<0.02	<0.05	<0.02	<0.05
Yerriyong Gully perched	Source	MW009P	0026_MW009P_250212	12 Feb 2025	Normal	27.4	0.53	5.31	<0.05	<0.02	0.07	<0.05	<0.02	<0.05



	Perfluorohexanoic acid (PFHxA)	Perfluorononanoic acid (PFNA)	Perfluoropentanoic acid (PFPeA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorotridecanoic acid (PFTriDA)	Perfluoroundecanoic acid (PFUnDA)	PFAS - F		
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidooacetic acid (EtFOSAA)	N-Ethyl perfluorooctane sulfonamidooethanol (EtFOSE)
EQL	0.01	0.01	0.01	0.01	0.01	0.01	0.05	0.02	0.05
ADWG 2011 Health (v4.0 updated June 2025)									
PFAS NEMP 3.0 2025 Freshwater 99%									
PFAS NEMP 3.0 2025 Recreational water quality									
Statistics									
Number of Results	37	37	37	37	37	37	37	37	37
Number of Detects	25	4	20	0	0	1	0	0	0
Minimum Concentration	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.02	<0.05
Minimum Detect	0.01	0.02	0.02	ND	ND	0.07	ND	ND	ND
Maximum Concentration	27.4	0.53	5.31	<0.05	<0.02	0.07	<0.05	<0.05	<0.05
Maximum Detect	27.4	0.53	5.31	ND	ND	0.07	ND	ND	ND
Average Concentration *	2.6	0.027	0.52	0.023	0.0095	0.011	0.025	0.012	0.025
Geometric Average *	0.14	0.011	0.058	0.021	0.0093	0.0098	0.025	0.011	0.025
Median Concentration *	0.03	0.01	0.03	0.025	0.01	0.01	0.025	0.01	0.025
Standard Deviation *	6.4	0.087	1.3	0.0063	0.0016	0.01	0	0.0047	0
Geometric Standard Deviation *	15	2.3	7.8	1.7	1.2	1.5	1	1.3	1
95% UCL (Student's-t) *	4.4	0.0508	0.867	0.0246	0.0099	0.0139	0.025	0.0129	0.025
Number of Env Standard Exceedances	0	0	0	0	0	0	0	0	0
Number of Env Standard Exceedances (Detects Only)	0	0	0	0	0	0	0	0	0
% of Detects	68	11	54	0	0	3	0	0	0
% of Non-Detects	32	89	46	100	100	97	100	100	100
% of Detects at or above Env Standards	0	0	0	0	0	0	0	0	0
% of Results Below Env Standards or Non-Detect	100	100	100	100	100	100	100	100	100

* A Non Detect Multiplier of 0.5 has been applied.

Environmental Standards

NHMRC, June 2025, ADWG 2011 Health (v4.0 updated June 2025)
HEPA, March 2025, PFAS NEMP 3.0 2025 Freshwater 99%
HEPA, March 2025, PFAS NEMP 3.0 2025 Recreational water quality



Appendix C
Table C2
OMP Monitoring Groundwater Analytical Results 2025

	Perfluoroalkyl Sulfonamide				PFAS - Fluorotelomer Sulfonic Acids			
	N-Methyl perfluorooctane sulfonamide (MeFOSA) µg/L	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOASA) µg/L	N-Methyl perfluorooctane sulfonamidoethanol (MEFOSE) µg/L	Perfluorooctane sulfonamide (PFOSA) µg/L	4:2 Fluorotelomer sulfonic acid (4:2 FTS) µg/L	6:2 Fluorotelomer Sulfonate (6:2 FTS) µg/L	8:2 Fluorotelomer sulfonic acid (8:2 FTS) µg/L	10:2 Fluorotelomer sulfonic acid (10:2 FTS) µg/L
EQL	0.05	0.02	0.05	0.02	0.01	0.05	0.01	0.01
ADWG 2011 Health (v4.0 updated June 2025)								
PFAS NEMP 3.0 2025 Freshwater 99%								
PFAS NEMP 3.0 2025 Recreational water quality								

Catchment	SPR	Location	Field ID	Date	Sample Type	N-Methyl perfluorooctane sulfonamide (MeFOSA) µg/L	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOASA) µg/L	N-Methyl perfluorooctane sulfonamidoethanol (MEFOSE) µg/L	Perfluorooctane sulfonamide (PFOSA) µg/L	4:2 Fluorotelomer sulfonic acid (4:2 FTS) µg/L	6:2 Fluorotelomer Sulfonate (6:2 FTS) µg/L	8:2 Fluorotelomer sulfonic acid (8:2 FTS) µg/L	10:2 Fluorotelomer sulfonic acid (10:2 FTS) µg/L
Braidwood Road drain	Source	MW001	0026_MW001_250212	12 Feb 2025	Normal	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05
Braidwood Road drain	Source	MW002	0026_MW002_250212	12 Feb 2025	Normal	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05
Braidwood Road drain	Source	MW012	0026_MW012_250212	12 Feb 2025	Normal	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05
Braidwood Road drain	Source	MW012	0026_QC102_250213	13 Feb 2025	Field_D	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05
Braidwood Road drain	Source	MW012	0026_QC202_25013	13 Feb 2025	Interlab_D	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01
Braidwood Road drain	Pathway	MW018	0026_MW018_250213	13 Feb 2025	Normal	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05
Braidwood Road drain	Pathway	MW018	0026_QC103_250213	13 Feb 2025	Field_D	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05
Braidwood Road drain	Pathway	MW018	0026_QC203_25013	13 Feb 2025	Interlab_D	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01
Braidwood Road drain	Pathway	MW044	0026_MW044_250213	13 Feb 2025	Normal	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05
Braidwood Road drain	Receptor	MW024	0026_MW024_250211	11 Feb 2025	Normal	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05
Braidwood Road drain	Receptor	MW031	0026_MW031_250211	11 Feb 2025	Normal	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05
Braidwood Road drain perched	Source	MW012P	0026_MW012P_250212	12 Feb 2025	Normal	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05
Cabbage Tree Creek	Receptor	MW072	0026_MW072_250213	13 Feb 2025	Normal	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05
Cabbage Tree Creek	Receptor	MW073	0026_MW073_250213	13 Feb 2025	Normal	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05
Flat Rock Creek	Receptor	MW004	0026_MW004_250213	13 Feb 2025	Normal	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05
Upper Currumbene Creek	Source	MW005	0026_MW005_250212	12 Feb 2025	Normal	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05
Upper Currumbene Creek	Source	MW029	0026_MW029_250212	12 Feb 2025	Normal	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05
Upper Currumbene Creek	Source	MW104	0026_MW104_250212	12 Feb 2025	Normal	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05
Upper Currumbene Creek	Source	MW104	0026_MW104_250526	26 May 2025	Normal	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05
Upper Currumbene Creek	Source	MW117	0026_MW117_250212	12 Feb 2025	Normal	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05
Upper Currumbene Creek	Source	MW213	0026_MW213_250213	13 Feb 2025	Normal	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05
Upper Currumbene Creek	Source	MW213	0026_QC104_250213	13 Feb 2025	Field_D	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05
Upper Currumbene Creek	Source	MW213	0026_QC204_25013	13 Feb 2025	Interlab_D	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01
Upper Currumbene Creek	Pathway	MW038	0026_MW038_250212	12 Feb 2025	Normal	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05
Upper Currumbene Creek	Receptor	MW003	0026_MW003_250212	12 Feb 2025	Normal	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05
Upper Currumbene Creek	Receptor	MW026	0026_MW026_250213	13 Feb 2025	Normal	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05
Yerriyong Gully	Source	MW006	0026_MW006_250212	12 Feb 2025	Normal	<0.05	<0.02	<0.05	0.02	<0.05	<0.05	<0.05	<0.05
Yerriyong Gully	Source	MW008	0026_MW008_250212	12 Feb 2025	Normal	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05
Yerriyong Gully	Source	MW008	0026_QC101_250212	12 Feb 2025	Field_D	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05
Yerriyong Gully	Source	MW008	0026_QC201_25012	12 Feb 2025	Interlab_D	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01
Yerriyong Gully	Source	MW009	0026_MW009_250212	12 Feb 2025	Normal	<0.05	<0.02	<0.05	<0.02	<0.05	0.16	0.07	<0.05
Yerriyong Gully	Source	MW015	0026_MW015_250212	12 Feb 2025	Normal	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05
Yerriyong Gully	Source	MW016	0026_MW016_250212	12 Feb 2025	Normal	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05
Yerriyong Gully	Source	MW017	0026_MW017_250212	12 Feb 2025	Normal	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05
Yerriyong Gully	Source	MW045	0026_MW045_250212	12 Feb 2025	Normal	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05
Yerriyong Gully	Pathway	MW039	0026_MW039_250211	11 Feb 2025	Normal	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05
Yerriyong Gully perched	Source	MW009P	0026_MW009P_250212	12 Feb 2025	Normal	<0.05	<0.02	<0.05	0.23	<0.05	0.49	1.35	<0.05



Appendix C
Table C2
OMP Monitoring Groundwater Analytical Results 2025

	Perfluoroalkyl Sulfonamide				PFAS - Fluorotelomer Sulfonic Acids			
	N-Methyl perfluorooctane sulfonamide (MeFOSA)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Methyl perfluorooctane sulfonamidoethanol (MEFOSE)	Perfluorooctane sulfonamide (PFOSA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FTS)	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL	0.05	0.02	0.05	0.02	0.01	0.05	0.01	0.01
ADWG 2011 Health (v4.0 updated June 2025)								
PFAS NEMP 3.0 2025 Freshwater 99%								
PFAS NEMP 3.0 2025 Recreational water quality								
Statistics								
Number of Results	37	37	37	37	37	37	37	37
Number of Detects	0	0	0	2	0	2	2	0
Minimum Concentration	<0.05	<0.02	<0.05	0.02	<0.01	<0.05	<0.01	<0.01
Minimum Detect	ND	ND	ND	0.02	ND	0.16	0.07	ND
Maximum Concentration	<0.05	<0.05	<0.05	0.23	<0.05	0.49	1.35	<0.05
Maximum Detect	ND	ND	ND	0.23	ND	0.49	1.35	ND
Average Concentration *	0.025	0.012	0.025	0.018	0.023	0.041	0.06	0.023
Geometric Average *	0.025	0.011	0.025	0.012	0.021	0.028	0.024	0.021
Median Concentration *	0.025	0.01	0.025	0.01	0.025	0.025	0.025	0.025
Standard Deviation *	0	0.0047	0	0.036	0.0063	0.079	0.22	0.0063
Geometric Standard Deviation *	1	1.3	1	1.8	1.7	1.8	2.4	1.7
95% UCL (Student's-t) *	0.025	0.0129	0.025	0.0279	0.0246	0.0631	0.12	0.0246
Number of Env Standard Exceedances	0	0	0	0	0	0	0	0
Number of Env Standard Exceedances (Detects Only)	0	0	0	0	0	0	0	0
% of Detects	0	0	0	5	0	5	5	0
% of Non-Detects	100	100	100	95	100	95	95	100
% of Detects at or above Env Standards	0	0	0	0	0	0	0	0
% of Results Below Env Standards or Non-Detect	100	100	100	100	100	100	100	100

* A Non Detect Multiplier of 0.5 has been applied.

Environmental Standards

NHMRC, June 2025, ADWG 2011 Health (v4.0 updated June 2025)
HEPA, March 2025, PFAS NEMP 3.0 2025 Freshwater 99%
HEPA, March 2025, PFAS NEMP 3.0 2025 Recreational water quality



Appendix C
Table C3
Historical Groundwater Analytical Results

EQL	PFAS				PFAS - Sums					Perfluorodecanesulfonic acid (PFDS)	Perfluorononane sulfonate (PFNS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluoropropanesulfonic acid (PFPrS)	Perfluoropentane sulfonic acid (PFPeS)
	Perfluorooctane sulfonic acid (PFOS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluorobutane sulfonic acid (PFBS)	Perfluorooctanoic acid (PFOA)	PFAS (Sum of Total)	PFAS (Sum of Total)(WA DER List)	Sum of US EPA PFAS (PFOS + PFOA)*	Sum of PFHxS and PFOS	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*					
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L					
	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
ADWG 2011 Health (v4.0 updated June 2025)	0.008	0.03	1	0.2										
PFAS NEMP 3.0 2025 Freshwater 99%	0.00023			19										
PFAS NEMP 3.0 2025 Recreational water quality	2	2		10				2						

Catchment	SPR	Location	Field ID	Date	Sample Type	Perfluorooctane sulfonic acid (PFOS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluorobutane sulfonic acid (PFBS)	Perfluorooctanoic acid (PFOA)	PFAS (Sum of Total)	PFAS (Sum of Total)(WA DER List)	Sum of US EPA PFAS (PFOS + PFOA)*	Sum of PFHxS and PFOS	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	Perfluorodecanesulfonic acid (PFDS)	Perfluorononane sulfonate (PFNS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluoropropanesulfonic acid (PFPrS)	Perfluoropentane sulfonic acid (PFPeS)
Braidwood Road drain	Source	MW001	0026_MW01_161014	14 Oct 2016	Normal	<0.01	<0.01	<0.01	<0.01	-	-	-	<0.01	-	<0.01	-	-	-	-
Braidwood Road drain	Source	MW001	0026_MW01_161115	15 Nov 2016	Normal	<0.01	<0.01	<0.01	<0.01	-	-	-	<0.01	-	<0.01	-	-	-	-
Braidwood Road drain	Source	MW001	0026_MW01_170524	24 May 2017	Normal	<0.01	<0.01	<0.01	<0.01	-	-	-	<0.01	-	<0.01	-	<0.01	-	<0.01
Braidwood Road drain	Source	MW001	0026_MW01_170620	20 Jun 2017	Normal	<0.01	<0.01	<0.01	<0.01	-	-	-	<0.01	-	<0.01	-	<0.01	-	<0.01
Braidwood Road drain	Source	MW001	0026_MW01_200228	28 Feb 2020	Normal	0.06	0.02	<0.02	<0.01	0.08	0.08	-	0.08	-	<0.02	-	<0.02	-	<0.02
Braidwood Road drain	Source	MW001	0026_QC103_200228	28 Feb 2020	Field_D	0.02	<0.02	<0.02	<0.01	0.02	0.02	-	0.02	-	<0.02	-	<0.02	-	<0.02
Braidwood Road drain	Source	MW001	0026_MW001_200824	24 Aug 2020	Normal	0.01	0.03	<0.02	<0.01	0.04	0.04	-	0.04	-	<0.02	-	<0.02	-	<0.02
Braidwood Road drain	Source	MW001	0026_MW001_210208	08 Feb 2021	Normal	<0.01	<0.01	<0.02	<0.01	<0.01	<0.01	-	<0.01	-	<0.02	-	<0.02	-	<0.02
Braidwood Road drain	Source	MW001	0026_MW001_220209	09 Feb 2022	Normal	<0.01	<0.01	<0.02	<0.01	<0.01	<0.01	-	<0.01	-	<0.02	-	<0.02	-	<0.02
Braidwood Road drain	Source	MW001	0026_MW001_230213	13 Feb 2023	Normal	0.76	0.25	<0.02	<0.01	1.05	1.03	-	1.01	-	<0.02	-	<0.02	-	0.02
Braidwood Road drain	Source	MW001	0026_MW001_240215	15 Feb 2024	Normal	0.37	0.08	<0.02	<0.01	0.45	0.45	-	0.45	-	<0.02	-	<0.02	-	<0.02
Braidwood Road drain	Source	MW001	0026_QC103_240215	15 Feb 2024	Field_D	0.30	0.06	<0.02	<0.01	0.36	0.36	-	0.36	-	<0.02	-	<0.02	-	<0.02
Braidwood Road drain	Source	MW001	0026_QC203_240215	15 Feb 2024	Interlab_D	0.49	0.11	<0.01	<0.01	0.66	-	0.49	0.61	-	<0.02	-	<0.01	-	0.01
Braidwood Road drain	Source	MW001	0026_MW001_250212	12 Feb 2025	Normal	0.33	0.06	<0.02	<0.01	0.39	0.39	-	0.39	-	<0.02	-	<0.02	-	<0.02
Braidwood Road drain	Source	MW002	0026_MW02_161014	14 Oct 2016	Normal	0.12 ^{#1}	<0.01	<0.01	<0.01	-	-	-	0.12	-	<0.01	-	-	-	-
Braidwood Road drain	Source	MW002	0026_QC232_161014	14 Oct 2016	Interlab_D	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	<0.05	-	<0.05	-	<0.05
Braidwood Road drain	Source	MW002	0026_MW02_161115	15 Nov 2016	Normal	<0.01	<0.01	<0.01	<0.01	-	-	-	<0.01	-	<0.01	-	-	-	-
Braidwood Road drain	Source	MW002	0026_MW02_170524	24 May 2017	Normal	0.04 ^{#1}	<0.01	<0.01	<0.01	-	-	-	0.04	-	<0.01	-	<0.01	-	<0.01
Braidwood Road drain	Source	MW002	0026_QC237_170619	19 Jun 2017	Interlab_D	<0.01	<0.02	<0.02	<0.01	<0.01	<0.01	-	<0.01	-	<0.02	-	<0.02	-	<0.02
Braidwood Road drain	Source	MW002	0026_MW02_170620	20 Jun 2017	Normal	<0.01	<0.01	<0.01	<0.01	-	-	-	<0.01	-	<0.01	-	<0.01	-	<0.01
Braidwood Road drain	Source	MW002	0026_QC158_170620	20 Jun 2017	Field_D	<0.01	<0.01	<0.01	<0.01	-	-	-	<0.01	-	<0.01	-	<0.01	-	<0.01
Braidwood Road drain	Source	MW002	0026_MW02_200228	28 Feb 2020	Normal	<0.01	<0.02	<0.02	<0.01	<0.01	<0.01	-	<0.01	-	<0.02	-	<0.02	-	<0.02
Braidwood Road drain	Source	MW002	0026_QC203_200228	28 Feb 2020	Interlab_D	<0.02	<0.01	0.011	<0.01	-	-	-	<0.02	-	<0.01	-	<0.01	-	<0.01
Braidwood Road drain	Source	MW002	0026_MW002_200824	24 Aug 2020	Normal	0.01	<0.02	1.04	<0.01	1.12	1.09	-	0.01	-	<0.02	-	<0.02	-	0.03
Braidwood Road drain	Source	MW002	0026_QC200_200824	24 Aug 2020	Interlab_D	<0.01	0.01	0.10	<0.01	0.15	-	<0.01	0.01	-	<0.02	-	<0.01	-	0.02
Braidwood Road drain	Source	MW002	0026_MW002_210208	08 Feb 2021	Normal	0.01	<0.02	0.32	<0.01	0.35	0.33	-	0.01	-	<0.02	-	<0.02	-	0.02
Braidwood Road drain	Source	MW002	0026_MW002_220208	08 Feb 2022	Normal	<0.01	0.01	0.08	<0.01	0.09	0.09	-	0.01	-	<0.02	-	<0.02	-	<0.02
Braidwood Road drain	Source	MW002	0026_QC101_220208	08 Feb 2022	Field_D	<0.01	0.01	0.07	<0.01	0.10	0.10	-	0.01	-	<0.02	-	<0.02	-	<0.02
Braidwood Road drain	Source	MW002	0026_MW002_230213	13 Feb 2023	Normal	0.01	<0.01	<0.02	<0.01	0.01	0.01	-	0.01	-	<0.02	-	<0.02	-	<0.02
Braidwood Road drain	Source	MW002	0026_MW002_240215	15 Feb 2024	Normal	<0.01	<0.01	0.02	<0.01	0.02	0.02	-	<0.01	-	<0.02	-	<0.02	-	<0.02
Braidwood Road drain	Source	MW002	0026_MW002_250212	12 Feb 2025	Normal	0.03	<0.01	<0.02	<0.01	0.03	0.03	-	0.03	-	<0.02	-	<0.02	-	<0.02
Braidwood Road drain	Source	MW012	0026_MW12_161013	13 Oct 2016	Normal	<0.01	<0.01	<0.01	<0.01	-	-	-	<0.01	-	<0.01	-	-	-	-
Braidwood Road drain	Source	MW012	0026_MW12_161115	15 Nov 2016	Normal	<0.01	<0.01	<0.01	<0.01	-	-	-	<0.01	-	<0.01	-	-	-	-
Braidwood Road drain	Source	MW012	0026_MW12_170523	23 May 2017	Normal	<0.01	<0.01	<0.01	<0.01	-	-	-	<0.01	-	<0.01	-	<0.01	-	<0.01
Braidwood Road drain	Source	MW012	0026_MW12_170620	20 Jun 2017	Normal	<0.01	<0.01	<0.01	<0.01	-	-	-	<0.01	-	<0.01	-	<0.01	-	<0.01
Braidwood Road drain	Source	MW012	0026_MW12_200227	27 Feb 2020	Normal	<0.01	<0.02	<0.02	<0.01	<0.01	<0.01	-	<0.01	-	<0.02	-	<0.02	-	<0.02
Braidwood Road drain	Source	MW012	0026_MW012_200826	26 Aug 2020	Normal	0.37	0.02	<0.02	<0.01	0.39	0.39	-	0.39	-	<0.02	-	<0.02	-	<0.02
Braidwood Road drain	Source	MW012	0026_MW012_210211	11 Feb 2021	Normal	<0.01	<0.02	<0.02	<0.01	<0.01	<0.01	-	<0.01	-	<0.02	-	<0.02	-	<0.02
Braidwood Road drain	Source	MW012	0026_MW012_220207	07 Feb 2022	Normal	<0.01	<0.01	<0.02	<0.01	<0.01	<0.01	-	<0.01	-	<0.02	-	<0.02	-	<0.02
Braidwood Road drain	Source	MW012	0026_QC100_220207	07 Feb 2022	Field_D	<0.01	<0.01	<0.02	<0.01	<0.01	<0.01	-	<0.01	-	<0.02	-	<0.02	-	<0.02
Braidwood Road drain	Source	MW012	0026_MW012_230213	13 Feb 2023	Normal	<0.01	<0.01	<0.02	<0.01	<0.01	<0.01	-	<0.01	-	<0.02	-	<0.02	-	<0.02
Braidwood Road drain	Source	MW012	0026_QC200_230213	13 Feb 2023	Interlab_D	<0.01	<0.01	<0.01	<0.01	<0.01	-	<0.01	<0.01	-	<0.02	-	<0.01	-	<0.01
Braidwood Road drain	Source	MW012	0026_MW012_240214	14 Feb 2024	Normal	<0.01	<0.01	<0.02	<0.01	<0.01	<0.01	-	<0.01	-	<0.02	-	<0.02	-	<0.02
Braidwood Road drain	Source	MW012	0026_QC102_240214	14 Feb 2024	Field_D	<0.01	<0.01	<0.02	<0.01	<0.01	<0.01	-	<0.01	-	<0.02	-	<0.02	-	<0.02
Braidwood Road drain	Source	MW012	0026_QC202_240214	14 Feb 2024	Interlab_D	<0.01	<0.01	<0.01	<0.01	<0.01	-	<0.01	<0.01	-	<0.02	-	<0.01	-	<0.01
Braidwood Road drain	Source	MW012	0026_MW012_250212	12 Feb 2025	Normal	0.06	0.04	<0.02	<0.01	0.10	0.10	-	0.10	-	<0.02	-	<0.02	-	<0.02
Braidwood Road drain	Source	MW012	0026_QC102_250213	13 Feb 2025	Field_D	0.06	0.04	<0.02	<0.01	0.10	0.10	-	0.10	-	<0.02	-	<0.02	-	<0.02
Braidwood Road drain	Source	MW012	0026_QC202_25013	13 Feb 2025	Interlab_D	0.08	0.05	<0.01	<0.01	0.14	0.14	0.08	0.13	0.13	<0.01	<0.01	<0.01	<0.01	<0.01
Braidwood Road drain	Pathway	MW018	0026_QC147_161114	14 Nov 2016	Field_D	<0.01	<0.01	<0.01	<0.01	-	-	-	<0.01	-	<0.01	-	-	-	-
Braidwood Road drain	Pathway	MW018	0026_QC148_161114	14 Nov 2016	Field_D	0.13 ^{#1}	<0.01	<0.01	<0.01	-	-	-	<0.01	-	<0.01	-	-	-	-
Braidwood Road drain	Pathway	MW018	0026_MW18_161114	15 Nov 2016	Normal	0.02 ^{#1}	<0.01	<0.01	<0.01	-	-	-	0.02	-	<0.01	-	-	-	-
Braidwood Road drain	Pathway	MW018	0026_MW18_161213	13 Dec 2016	Normal	<0.01	<0.01	<0.01	<0.01	-	-	-	<0.01	-	<0.01	-	-	-	-
Braidwood Road drain	Pathway	MW018	0026_QC153_161213	13 Dec 2016	Field_D	<0.01	<0.01	<0.01	<0.01	-	-	-	<0.01	-	<0.01	-	-	-	-
Braidwood Road drain	Pathway	MW018	0026_QC233_161213	13 Dec 2016	Field_D	<0.01	<0.01	<0.01	<0.01	-	-	-	<0.01	-	<0.01	-	-	-	-



Appendix C
Table C3
Historical Groundwater Analytical Results

EQL	PFAS				PFAS - Sums					Perfluorodecanesulfonic acid (PFDS)	Perfluoronane sulfonate (PFNS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluoropropanesulfonic acid (PFPrS)	Perfluoropentane sulfonic acid (PFPeS)
	Perfluorooctane sulfonic acid (PFOS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluorobutane sulfonic acid (PFBS)	Perfluorooctanoic acid (PFOA)	PFAS (Sum of Total)	PFAS (Sum of Total)(WA DER List)	Sum of US EPA PFAS (PFOS + PFOA)*	Sum of PFHxS and PFOS	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*					
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L					
EQL	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
ADWG 2011 Health (v4.0 updated June 2025)	0.008	0.03	1	0.2										
PFAS NEMP 3.0 2025 Freshwater 99%	0.00023			19										
PFAS NEMP 3.0 2025 Recreational water quality	2	2		10				2						

Catchment	SPR	Location	Field ID	Date	Sample Type	Perfluorooctane sulfonic acid (PFOS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluorobutane sulfonic acid (PFBS)	Perfluorooctanoic acid (PFOA)	PFAS (Sum of Total)	PFAS (Sum of Total)(WA DER List)	Sum of US EPA PFAS (PFOS + PFOA)*	Sum of PFHxS and PFOS	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	Perfluorodecanesulfonic acid (PFDS)	Perfluoronane sulfonate (PFNS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluoropropanesulfonic acid (PFPrS)	Perfluoropentane sulfonic acid (PFPeS)
Braidwood Road drain	Pathway	MW018	0026_MW18_161114	08 Feb 2017	Normal	3.3 ^{#1}	1.7 ^{#1}	0.24	0.11 ^{#1}	-	-	-	5	-	<0.01	-	-	-	-
Braidwood Road drain	Pathway	MW018	0026_MW18_170522	22 May 2017	Normal	<0.01	<0.01	<0.01	<0.01	-	-	-	<0.01	-	<0.01	-	<0.01	-	<0.01
Braidwood Road drain	Pathway	MW018	0026_MW18_170619	19 Jun 2017	Normal	<0.01	<0.01	<0.01	<0.01	-	-	-	<0.01	-	<0.01	-	<0.01	-	<0.01
Braidwood Road drain	Pathway	MW018	0026_QC157_170619	19 Jun 2017	Field_D	<0.01	<0.01	<0.01	<0.01	-	-	-	<0.01	-	<0.01	-	<0.01	-	<0.01
Braidwood Road drain	Pathway	MW018	0026_QC238_170620	20 Jun 2017	Interlab_D	<0.01	<0.02	<0.02	<0.01	<0.01	<0.01	-	<0.01	-	<0.02	-	<0.02	-	<0.02
Braidwood Road drain	Pathway	MW018	0026_MW18_200226	26 Feb 2020	Normal	<0.01	<0.02	<0.02	<0.01	<0.01	<0.01	-	<0.01	-	<0.02	-	<0.02	-	<0.02
Braidwood Road drain	Pathway	MW018	0026_MW018_200824	24 Aug 2020	Normal	<0.01	<0.02	0.72	<0.01	0.72	0.72	-	<0.01	-	<0.02	-	<0.02	-	<0.02
Braidwood Road drain	Pathway	MW018	0026_MW018_210209	09 Feb 2021	Normal	0.01	<0.02	<0.02	<0.01	0.09	0.09	-	0.01	-	<0.02	-	<0.02	-	<0.02
Braidwood Road drain	Pathway	MW018	0026_MW018_220209	09 Feb 2022	Normal	<0.01	<0.01	<0.02	<0.01	<0.01	<0.01	-	<0.01	-	<0.02	-	<0.02	-	<0.02
Braidwood Road drain	Pathway	MW018	0026_MW018_230214	14 Feb 2023	Normal	<0.01	<0.01	<0.02	<0.01	<0.01	<0.01	-	<0.01	-	<0.02	-	<0.02	-	<0.02
Braidwood Road drain	Pathway	MW018	0026_MW018_240215	15 Feb 2024	Normal	<0.01	<0.01	<0.02	<0.01	<0.01	<0.01	-	<0.01	-	<0.02	-	<0.02	-	<0.02
Braidwood Road drain	Pathway	MW018	0026_MW018_250213	13 Feb 2025	Normal	0.02	<0.01	<0.02	<0.01	0.07	0.07	-	0.02	-	<0.02	-	<0.02	-	<0.02
Braidwood Road drain	Pathway	MW018	0026_QC103_250213	13 Feb 2025	Field_D	<0.01	<0.01	<0.02	<0.01	0.04	0.04	-	<0.01	-	<0.02	-	<0.02	-	<0.02
Braidwood Road drain	Pathway	MW018	0026_QC203_25013	13 Feb 2025	Interlab_D	0.01	<0.01	<0.01	<0.01	<0.1	0.07	0.01	0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Braidwood Road drain	Pathway	MW044	0026_MW44_170522	22 May 2017	Normal	0.06 ^{#1}	5.1 ^{#1}	3.4 ^{#1}	0.24	-	-	-	5.16	-	<0.01	-	0.05 ^{#1}	-	1.4 ^{#1}
Braidwood Road drain	Pathway	MW044	0026_MW44_170620	20 Jun 2017	Normal	0.17	11	5.1	0.39	-	-	-	11.17	-	<0.01	-	0.08	-	3.0
Braidwood Road drain	Pathway	MW044	0026_MW44_200226	26 Feb 2020	Normal	0.69	15.8	4.00	0.50	33.4	29.2	-	16.5	-	<0.02	-	0.24	-	3.94
Braidwood Road drain	Pathway	MW044	0026_MW044_200824	24 Aug 2020	Normal	0.47	12.7	3.24	0.38	27.0	23.5	-	13.2	-	<0.02	-	0.20	-	3.33
Braidwood Road drain	Pathway	MW044	0026_QC100_200824	24 Aug 2020	Field_D	0.58	16.4	3.96	0.45	33.6	29.4	-	17.0	-	<0.02	-	0.24	-	3.92
Braidwood Road drain	Pathway	MW044	0026_MW044_210209	09 Feb 2021	Normal	0.55	10.1	2.52	0.46	22.4	18.8	-	10.6	-	<0.02	-	0.24	-	3.38
Braidwood Road drain	Pathway	MW044	0026_QC100_210209	09 Feb 2021	Field_D	0.58	10.7	3.43	0.54	26.0	22.6	-	11.3	-	<0.02	-	0.21	-	3.24
Braidwood Road drain	Pathway	MW044	0026_MW044_220209	09 Feb 2022	Normal	0.04	0.32	0.06	0.01	0.59	0.53	-	0.36	-	<0.02	-	<0.02	-	0.06
Braidwood Road drain	Pathway	MW044	0026_QC203_220209	09 Feb 2022	Interlab_D	0.02	0.14	<0.01	<0.01	0.19	-	0.02	0.16	-	<0.02	-	<0.01	-	0.01
Braidwood Road drain	Pathway	MW044	0026_MW044_230214	14 Feb 2023	Normal	0.02	0.07	<0.02	<0.01	0.09	0.09	-	0.09	-	<0.02	-	<0.02	-	<0.02
Braidwood Road drain	Pathway	MW044	0026_MW044_250213	13 Feb 2025	Normal	0.07	0.11	0.02	<0.01	0.22	0.22	-	0.18	-	<0.02	-	<0.02	-	<0.02
Braidwood Road drain	Receptor	MW024	0026_MW24_161115	15 Nov 2016	Normal	<0.01	<0.01	<0.01	<0.01	-	-	-	<0.01	-	<0.01	-	-	-	-
Braidwood Road drain	Receptor	MW024	0026_QC149_161115	15 Nov 2016	Field_D	<0.01	<0.01	<0.01	<0.01	-	-	-	<0.01	-	<0.01	-	-	-	-
Braidwood Road drain	Receptor	MW024	0026_QC150_161115	15 Nov 2016	Field_D	<0.01	<0.01	<0.01	<0.01	-	-	-	<0.01	-	<0.01	-	-	-	-
Braidwood Road drain	Receptor	MW024	0026_MW24_161213	14 Dec 2016	Normal	<0.01	<0.01	<0.01	<0.01	-	-	-	<0.01	-	<0.01	-	-	-	-
Braidwood Road drain	Receptor	MW024	0026_MW24_170525	25 May 2017	Normal	0.62 ^{#1}	1.0 ^{#1}	0.07	0.03 ^{#1}	-	-	-	1.62	-	<0.01	-	0.03 ^{#1}	-	0.07 ^{#1}
Braidwood Road drain	Receptor	MW024	0026_MW24_170621	21 Jun 2017	Normal	0.26 ^{#1}	0.41 ^{#1}	0.03	0.01	-	-	-	0.67	-	<0.01	-	<0.01	-	0.03 ^{#1}
Braidwood Road drain	Receptor	MW024	0026_MW24_200228	28 Feb 2020	Normal	0.22	0.13	<0.02	<0.01	0.38	0.38	-	0.35	-	<0.02	-	<0.02	-	<0.02
Braidwood Road drain	Receptor	MW024	0026_MW024_200825	25 Aug 2020	Normal	0.26	0.31	0.04	0.02	0.84	0.81	-	0.57	-	<0.02	-	<0.02	-	0.03
Braidwood Road drain	Receptor	MW024	0026_MW024_210209	09 Feb 2021	Normal	0.17	0.28	0.05	0.02	0.74	0.71	-	0.45	-	<0.02	-	<0.02	-	0.03
Braidwood Road drain	Receptor	MW024	0026_MW024_220209	09 Feb 2022	Normal	0.02	0.03	<0.02	<0.01	0.05	0.05	-	0.05	-	<0.02	-	<0.02	-	<0.02
Braidwood Road drain	Receptor	MW024	0026_MW024_230216	16 Feb 2023	Normal	0.02	0.02	<0.02	<0.01	0.04	0.04	-	0.04	-	<0.02	-	<0.02	-	<0.02
Braidwood Road drain	Receptor	MW024	0026_MW024_240215	15 Feb 2024	Normal	0.01	0.01	<0.02	<0.01	0.02	0.02	-	0.02	-	<0.02	-	<0.02	-	<0.02
Braidwood Road drain	Receptor	MW024	0026_MW024_250211	11 Feb 2025	Normal	0.45	0.11	<0.02	0.01	0.59	0.59	-	0.56	-	<0.02	-	<0.02	-	<0.02
Braidwood Road drain	Receptor	MW031	0026_MW31_170525	25 May 2017	Normal	<0.01 ^{#1}	0.02 ^{#1}	0.11	<0.01	-	-	-	0.02	-	<0.01	-	<0.01	-	0.06 ^{#1}
Braidwood Road drain	Receptor	MW031	0026_MW31_170621	21 Jun 2017	Normal	<0.01	0.02 ^{#1}	0.07 ^{#1}	<0.01	-	-	-	0.02	-	<0.01	-	<0.01	-	0.05 ^{#1}
Braidwood Road drain	Receptor	MW031	0026_QC159_170621	21 Jun 2017	Field_D	<0.01	0.02 ^{#1}	0.07 ^{#1}	<0.01	-	-	-	0.02	-	<0.01	-	<0.01	-	0.05 ^{#1}
Braidwood Road drain	Receptor	MW031	0026_QC239_170621	21 Jun 2017	Interlab_D	<0.01	0.03	0.09	<0.01	0.20	0.14	-	0.03	-	<0.02	-	<0.02	-	0.06
Braidwood Road drain	Receptor	MW031	0026_MW31_200228	28 Feb 2020	Normal	<0.01	<0.02	0.07	<0.01	0.11	0.07	-	<0.01	-	<0.02	-	<0.02	-	0.04
Braidwood Road drain	Receptor	MW031	0026_MW031_200825	25 Aug 2020	Normal	<0.01	0.10	0.20	<0.01	0.48	0.35	-	0.10	-	<0.02	-	<0.02	-	0.13
Braidwood Road drain	Receptor	MW031	0026_MW031_210209	09 Feb 2021	Normal	<0.01	0.03	0.14	<0.01	0.28	0.20	-	0.03	-	<0.02	-	<0.02	-	0.08
Braidwood Road drain	Receptor	MW031	0026_MW031_220209	09 Feb 2022	Normal	<0.01	0.04	0.17	<0.01	0.33	0.25	-	0.04	-	<0.02	-	<0.02	-	0.08
Braidwood Road drain	Receptor	MW031	0026_MW031_230216	16 Feb 2023	Normal	<0.01	0.06	0.12	<0.01	0.27	0.20	-	0.06	-	<0.02	-	<0.02	-	0.07
Braidwood Road drain	Receptor	MW031	0026_MW031_240216	16 Feb 2024	Normal	<0.01	0.08	0.15	<0.01	0.38	0.28	-	0.08	-	<0.02	-	<0.02	-	0.10
Braidwood Road drain	Receptor	MW031	0026_MW031_250211	11 Feb 2025	Normal	<0.01	0.07	0.11	<0.01	0.31	0.20	-	0.07	-	<0.02	-	<0.02	-	0.07
Braidwood Road drain perched	Source	MW012P	0026_MW12_P_161013	13 Oct 2016	Normal	0.04 ^{#1}	0.01 ^{#1}	<0.01	<0.01	-	-	-	0.05	-	<0.01	-	-	-	-
Braidwood Road drain perched	Source	MW012P	0026_MW12_P_161115	15 Nov 2016	Normal	0.03 ^{#1}	<0.01	<0.01	<0.01	-	-	-	0.03	-	<0.01	-	-	-	-
Braidwood Road drain perched	Source	MW012P	0026_MW12_P_170523	23 May 2017	Normal	0.05 ^{#1}	0.03	<0.01	<0.01	-	-	-	0.0						



Appendix C
Table C3
Historical Groundwater Analytical Results

EQL	PFAS				PFAS - Sums					Perfluorodecanesulfonic acid (PFDS)	Perfluoronane sulfonate (PFNS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluoropropanesulfonic acid (PFPrS)	Perfluoropentane sulfonic acid (PFPeS)
	Perfluorooctane sulfonic acid (PFOS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluorobutane sulfonic acid (PFBS)	Perfluorooctanoic acid (PFOA)	PFAS (Sum of Total)	PFAS (Sum of Total)(WA DER List)	Sum of US EPA PFAS (PFOS + PFOA)*	Sum of PFHxS and PFOS	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*					
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L					
ADWG 2011 Health (v4.0 updated June 2025)	0.008	0.03	1	0.2										
PFAS NEMP 3.0 2025 Freshwater 99%	0.00023			19										
PFAS NEMP 3.0 2025 Recreational water quality	2	2		10				2						

Catchment	SPR	Location	Field ID	Date	Sample Type	Perfluorooctane sulfonic acid (PFOS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluorobutane sulfonic acid (PFBS)	Perfluorooctanoic acid (PFOA)	PFAS (Sum of Total)	PFAS (Sum of Total)(WA DER List)	Sum of US EPA PFAS (PFOS + PFOA)*	Sum of PFHxS and PFOS	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	Perfluorodecanesulfonic acid (PFDS)	Perfluoronane sulfonate (PFNS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluoropropanesulfonic acid (PFPrS)	Perfluoropentane sulfonic acid (PFPeS)
Braidwood Road drain perched	Source	MW012P	0026_MW12_P_200227	27 Feb 2020	Normal	3.03	1.45	0.20	0.04	4.75	4.56	-	4.08	-	<0.02	-	0.04	-	0.15
Braidwood Road drain perched	Source	MW012P	0026_MW012_P_200826	26 Aug 2020	Normal	0.80	0.59	0.08	0.02	1.61	1.54	-	1.39	-	<0.02	-	<0.02	-	0.07
Braidwood Road drain perched	Source	MW012P	0026_MW012_P_210211	11 Feb 2021	Normal	0.29	0.12	<0.02	<0.01	0.41	0.41	-	0.41	-	<0.02	-	<0.02	-	<0.02
Braidwood Road drain perched	Source	MW012P	0026_MW012P_220207	07 Feb 2022	Normal	0.57	0.43	0.07	0.02	1.23	1.18	-	1.00	-	<0.02	-	<0.02	-	0.05
Braidwood Road drain perched	Source	MW012P	0026_MW012P_230213	13 Feb 2023	Normal	0.24	0.19	0.03	<0.01	0.50	0.48	-	0.43	-	<0.02	-	<0.02	-	0.02
Braidwood Road drain perched	Source	MW012P	0026_MW012P_240214	14 Feb 2024	Normal	0.40	0.29	0.06	0.01	0.84	0.81	-	0.69	-	<0.02	-	<0.02	-	0.03
Braidwood Road drain perched	Source	MW012P	0026_MW012P_250212	12 Feb 2025	Normal	0.10	0.01	<0.02	<0.01	0.11	0.11	-	0.11	-	<0.02	-	<0.02	-	<0.02
Cabbage Tree Creek	Receptor	MW072	0026_MW072_200827	27 Aug 2020	Normal	0.13	<0.02	<0.02	<0.01	0.13	0.13	-	0.13	-	<0.02	-	<0.02	-	<0.02
Cabbage Tree Creek	Receptor	MW072	0026_MW072_210209	09 Feb 2021	Normal	<0.01	<0.02	<0.02	<0.01	<0.01	<0.01	-	<0.01	-	<0.02	-	<0.02	-	<0.02
Cabbage Tree Creek	Receptor	MW072	0026_MW072_220208	08 Feb 2022	Normal	<0.01	<0.01	<0.02	<0.01	<0.01	<0.01	-	<0.01	-	<0.02	-	<0.02	-	<0.02
Cabbage Tree Creek	Receptor	MW072	0026_MW072_230215	15 Feb 2023	Normal	<0.01	<0.01	<0.02	<0.01	<0.01	<0.01	-	<0.01	-	<0.02	-	<0.02	-	<0.02
Cabbage Tree Creek	Receptor	MW072	0026_MW072_240215	15 Feb 2024	Normal	0.01	0.02	<0.02	<0.01	0.03	0.03	-	0.03	-	<0.02	-	<0.02	-	<0.02
Cabbage Tree Creek	Receptor	MW072	0026_MW072_250213	13 Feb 2025	Normal	<0.01	<0.01	<0.02	<0.01	<0.01	<0.01	-	<0.01	-	<0.02	-	<0.02	-	<0.02
Cabbage Tree Creek	Receptor	MW073	0026_MW073_200827	27 Aug 2020	Normal	<0.01	<0.02	<0.02	<0.01	<0.01	<0.01	-	<0.01	-	<0.02	-	<0.02	-	<0.02
Cabbage Tree Creek	Receptor	MW073	0026_MW073_210209	09 Feb 2021	Normal	<0.01	<0.02	<0.02	<0.01	<0.01	<0.01	-	<0.01	-	<0.02	-	<0.02	-	<0.02
Cabbage Tree Creek	Receptor	MW073	0026_MW073_220208	08 Feb 2022	Normal	<0.01	<0.01	<0.02	<0.01	<0.01	<0.01	-	<0.01	-	<0.02	-	<0.02	-	<0.02
Cabbage Tree Creek	Receptor	MW073	0026_QC201_220208	08 Feb 2022	Interlab_D	<0.01	<0.01	<0.01	<0.01	<0.01	-	<0.01	<0.01	-	<0.02	-	<0.01	-	<0.01
Cabbage Tree Creek	Receptor	MW073	0026_MW073_230215	15 Feb 2023	Normal	<0.01	<0.01	<0.02	<0.01	<0.01	<0.01	-	<0.01	-	<0.02	-	<0.02	-	<0.02
Cabbage Tree Creek	Receptor	MW073	0026_MW073_240215	15 Feb 2024	Normal	<0.01	<0.01	<0.02	<0.01	<0.01	<0.01	-	<0.01	-	<0.02	-	<0.02	-	<0.02
Cabbage Tree Creek	Receptor	MW073	0026_MW073_250213	13 Feb 2025	Normal	<0.01	<0.01	<0.02	<0.01	<0.01	<0.01	-	<0.01	-	<0.02	-	<0.02	-	<0.02
Flat Rock Creek	Receptor	MW004	0026_MW04_161014	14 Oct 2016	Normal	<0.01	<0.01	<0.01	<0.01	-	-	-	<0.01	-	<0.01	-	-	-	-
Flat Rock Creek	Receptor	MW004	0026_MW04_161114	15 Nov 2016	Normal	0.02 ^{#1}	<0.01	<0.01	<0.01	-	-	-	0.02	-	<0.01	-	-	-	-
Flat Rock Creek	Receptor	MW004	0026_MW04_170522	22 May 2017	Normal	<0.01	<0.01	<0.01	<0.01	-	-	-	<0.01	-	<0.01	-	<0.01	-	<0.01
Flat Rock Creek	Receptor	MW004	0026_MW04_170619	19 Jun 2017	Normal	<0.01	<0.01	<0.01	<0.01	-	-	-	<0.01	-	<0.01	-	<0.01	-	<0.01
Flat Rock Creek	Receptor	MW004	0026_MW004_200827	27 Aug 2020	Normal	<0.01	<0.02	<0.02	<0.01	<0.01	<0.01	-	<0.01	-	<0.02	-	<0.02	-	<0.02
Flat Rock Creek	Receptor	MW004	0026_QC202_200827	27 Aug 2020	Interlab_D	<0.01	<0.01	<0.01	<0.01	<0.01	-	<0.01	<0.01	-	<0.02	-	<0.01	-	<0.01
Flat Rock Creek	Receptor	MW004	0026_MW004_210210	10 Feb 2021	Normal	<0.01	<0.02	<0.02	<0.01	<0.01	<0.01	-	<0.01	-	<0.02	-	<0.02	-	<0.02
Flat Rock Creek	Receptor	MW004	0026_QC200_210210	10 Feb 2021	Interlab_D	<0.02	<0.01	<0.01	<0.01	-	-	-	<0.02	-	<0.01	-	<0.01	-	<0.01
Flat Rock Creek	Receptor	MW004	0026_MW004_230214	14 Feb 2023	Normal	<0.01	<0.01	<0.02	<0.01	<0.01	<0.01	-	<0.01	-	<0.02	-	<0.02	-	<0.02
Flat Rock Creek	Receptor	MW004	0026_MW004_240216	16 Feb 2024	Normal	<0.01	<0.01	<0.02	<0.01	<0.01	<0.01	-	<0.01	-	<0.02	-	<0.02	-	<0.02
Flat Rock Creek	Receptor	MW004	0026_MW004_250213	13 Feb 2025	Normal	<0.01	<0.01	<0.02	<0.01	<0.01	<0.01	-	<0.01	-	<0.02	-	<0.02	-	<0.02
Upper Currumbene Creek	Source	MW005	0026_MW05_161014	14 Oct 2016	Normal	2.0 ^{#1}	5.1 ^{#1}	1.5	0.30 ^{#1}	-	-	-	7.1	-	<0.01	-	-	-	-
Upper Currumbene Creek	Source	MW005	0026_MW05_161116	15 Nov 2016	Normal	2.4 ^{#1}	2.4 ^{#1}	0.89	0.28 ^{#1}	-	-	-	4.8	-	<0.01	-	-	-	-
Upper Currumbene Creek	Source	MW005	0026_MW05_170523	23 May 2017	Normal	5.4 ^{#1}	6.0 ^{#1}	0.96 ^{#1}	0.43 ^{#1}	-	-	-	11.4	-	<0.01	-	0.17 ^{#1}	-	0.63 ^{#1}
Upper Currumbene Creek	Source	MW005	0026_MW05_170620	20 Jun 2017	Normal	3.2 ^{#1}	3.7 ^{#1}	1.0 ^{#1}	0.31 ^{#1}	-	-	-	7.6	-	<0.01	-	0.11 ^{#1}	-	0.72 ^{#1}
Upper Currumbene Creek	Source	MW005	0026_MW05_200227	27 Feb 2020	Normal	7.8 ^{#1}	5.90	0.72	0.31	17.6	16.5	-	13.8	-	<0.02	-	0.24	-	0.78
Upper Currumbene Creek	Source	MW005	0026_MW005_200825	25 Aug 2020	Normal	18.9	12.9	1.29	0.68	40.5	38.1	-	32.8	-	<0.02	-	0.70	-	1.74
Upper Currumbene Creek	Source	MW005	0026_MW005_210210	10 Feb 2021	Normal	15.3	10.2	1.54	0.55	32.7	30.4	-	25.5	-	<0.02	-	0.56	-	1.71
Upper Currumbene Creek	Source	MW005	0026_MW005_220210	10 Feb 2022	Normal	30.9	11.7	1.35	0.60	39.0	37.1	-	31.7	-	<0.02	-	0.54	-	1.40
Upper Currumbene Creek	Source	MW005	0026_MW005_230214	14 Feb 2023	Normal	22.9	12.4	1.19	0.68	41.9	39.8	-	35.3	-	<0.02	-	0.61	-	1.44
Upper Currumbene Creek	Source	MW005	0026_MW005_240216	16 Feb 2024	Normal	8.18	4.80	0.78	0.45	18.8	17.6	-	14.0	-	<0.02	-	0.30	-	0.83
Upper Currumbene Creek	Source	MW005	0026_MW005_250212	12 Feb 2025	Normal	7.71	5.55	0.81	0.43	18.1	16.7	-	13.3	-	<0.02	-	0.31	-	0.74
Upper Currumbene Creek	Source	MW029	0026_MW29_161115	15 Nov 2016	Normal	3.0 ^{#1}	2.4 ^{#1}	1.2	0.18 ^{#1}	-	-	-	5.4	-	<0.01	-	-	-	-
Upper Currumbene Creek	Source	MW029	0026_MW29_161212	12 Dec 2016	Normal	0.63 ^{#1}	0.45 ^{#1}	0.17	0.08 ^{#1}	-	-	-	1.08	-	<0.01	-	-	-	-
Upper Currumbene Creek	Source	MW029	0026_MW29_170524	24 May 2017	Normal	3.3 ^{#1}	3.7 ^{#1}	1.8 ^{#1}	0.26 ^{#1}	-	-	-	7.2	-	<0.01	-	0.13 ^{#1}	-	1.0 ^{#1}
Upper Currumbene Creek	Source	MW029	0026_MW29_170620	20 Jun 2017	Normal	2.8 ^{#1}	2.4 ^{#1}	1.0 ^{#1}	0.12 ^{#1}	-	-	-	5	-	<0.01	-	0.09 ^{#1}	-	0.81 ^{#1}
Upper Currumbene Creek	Source	MW029	0026_MW29_200227	27 Feb 2020	Normal	9.19	9.92	3.47	0.37	32.8	29.8	-	19.1	-	0.04	-	0.34	-	2.60
Upper Currumbene Creek	Source	MW029	0026_QC102_200227	27 Feb 2020	Field_D	18.5	9.65	3.54	0.40	34.0	30.9	-	20.2	-	0.04	-	0.33	-	2.70
Upper Currumbene Creek	Source	MW029	0026_MW029_200825	25 Aug 2020	Normal	7.43	14.2	5.74	0.50	43.8	39.6	-	21.6	-	<0.02	-	0.32	-	3.84
Upper Currumbene Creek	Source	MW029	0026_QC201_200825	25 Aug 2020	Interlab_D	5.2	9.5	4.5	0.34	31	-	5.6	15	-	<0.02	-	0.22	-	3.2
Upper Currumbene Creek	Source	MW029	0026_MW029_210208	08 Feb 2021	Normal	8.72	11.2	5.49	0.42	37.4	32.8	-	16.9	-	<0.02	-	0.29	-	4.29
Upper Currumbene Creek	Source	MW029	0026_MW029_220208	08 Feb 2022	Normal	5.85	10.1	5.00	0.42	35.9	32.2	-	15.8	-	<0.02	-	0.23	-	3.55
Upper Currumbene Creek	Source	MW029	0026_MW029_230214	14 Feb 2023	Normal	1.30	3.23	2.07	0.16	12.5	11.0	-	4.53	-	<0.02	-	0.07	-	1.40
Upper Currumbene Creek	Source	MW029	0026_MW029_240215	15 Feb 2024	Normal	0.35	0.65	0.50	0.06	3.71	3.37	-	1.00	-	<0.02	-	0.02	-	0.32



Appendix C
Table C3
Historical Groundwater Analytical Results

	PFAS				PFAS - Sums					Perfluorodecane sulfonic acid (PFDS)	Perfluorononane sulfonate (PFNS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluoropropanesulfonic acid (PFPrS)	Perfluoropentane sulfonic acid (PFPeS)
	Perfluorooctane sulfonic acid (PFOS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluorobutane sulfonic acid (PFBS)	Perfluorooctanoic acid (PFOA)	PFAS (Sum of Total)	PFAS (Sum of Total)(WA DER List)	Sum of US EPA PFAS (PFOS + PFOA)*	Sum of PFHxS and PFOS	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*					
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L					
EQL	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
ADWG 2011 Health (v4.0 updated June 2025)	0.008	0.03	1	0.2										
PFAS NEMP 3.0 2025 Freshwater 99%	0.00023			19										
PFAS NEMP 3.0 2025 Recreational water quality	2	2		10				2						

Catchment	SPR	Location	Field ID	Date	Sample Type	PFOS	PFHxS	PFBS	PFOA	PFAS (Sum of Total)	PFAS (Sum of Total)(WA DER List)	Sum of US EPA PFAS (PFOS + PFOA)*	Sum of PFHxS and PFOS	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	PFDS	PFNS	PFHpS	PFPrS	PFPeS
Upper Currumbene Creek	Source	MW029	0026_MW029_250212	12 Feb 2025	Normal	0.62	0.94	0.48	0.06	3.86	3.23	-	1.56	-	<0.02	-	0.02	-	0.39
Upper Currumbene Creek	Source	MW104	0026_MW104_250212	12 Feb 2025	Normal	72.2	82.5	10.3	5.78	214	193	-	155	-	<0.02	-	3.87	-	11.6
Upper Currumbene Creek	Source	MW104	0026_MW104_250526	26 May 2025	Normal	178	93.8	9.61	7.78	336	309	-	270	-	<0.02	-	7.35	-	12.6
Upper Currumbene Creek	Source	MW117	0026_MW117_250212	12 Feb 2025	Normal	0.43	0.57	0.07	0.02	1.29	1.20	-	1.00	-	<0.02	-	<0.02	-	0.07
Upper Currumbene Creek	Source	MW213	0026_MW213_250213	13 Feb 2025	Normal	4.53	5.01	0.69	0.20	12.8	11.5	-	9.54	-	<0.02	-	0.22	-	0.75
Upper Currumbene Creek	Source	MW213	0026_QC104_250213	13 Feb 2025	Field_D	3.44	4.81	0.63	0.18	11.2	9.99	-	8.25	-	<0.02	-	0.18	-	0.77
Upper Currumbene Creek	Source	MW213	0026_QC204_25013	13 Feb 2025	Interlab_D	3.5	6.5	0.72	0.21	13.6	12.37	4.01	10.3	10.51	<0.01	<0.01	0.18	0.30	0.75
Upper Currumbene Creek	Pathway	MW030	0026_MW30_161115	15 Nov 2016	Normal	<0.01	0.02 ^{#1}	0.02	<0.01	-	-	-	0.02	-	<0.01	-	-	-	-
Upper Currumbene Creek	Pathway	MW030	0026_MW30_161212	12 Dec 2016	Normal	5.7 ^{#1}	4.8 ^{#1}	1.2	0.39 ^{#1}	-	-	-	10.5	-	<0.01	-	-	-	-
Upper Currumbene Creek	Pathway	MW038	0026_MW38_170523	23 May 2017	Normal	<0.01	0.04 ^{#1}	0.01	<0.01	-	-	-	0.04	-	<0.01	-	<0.01	-	<0.01
Upper Currumbene Creek	Pathway	MW038	0026_MW38_170620	20 Jun 2017	Normal	0.01 ^{#1}	0.03 ^{#1}	0.02	<0.01	-	-	-	0.04	-	<0.01	-	<0.01	-	0.01 ^{#1}
Upper Currumbene Creek	Pathway	MW038	0026_MW38_200227	27 Feb 2020	Normal	<0.01	<0.02	<0.02	<0.01	<0.01	<0.01	-	<0.01	-	<0.02	-	<0.02	-	<0.02
Upper Currumbene Creek	Pathway	MW038	0026_MW038_200826	26 Aug 2020	Normal	<0.01	<0.02	<0.02	<0.01	0.02	0.02	-	<0.01	-	<0.02	-	<0.02	-	<0.02
Upper Currumbene Creek	Pathway	MW038	0026_MW038_210208	08 Feb 2021	Normal	<0.01	<0.02	<0.02	<0.01	<0.01	<0.01	-	<0.01	-	<0.02	-	<0.02	-	<0.02
Upper Currumbene Creek	Pathway	MW038	0026_MW038_220207	07 Feb 2022	Normal	<0.01	0.06	<0.02	<0.01	0.20	0.20	-	0.06	-	<0.02	-	<0.02	-	<0.02
Upper Currumbene Creek	Pathway	MW038	0026_MW038_230214	14 Feb 2023	Normal	0.01	0.02	<0.02	<0.01	0.07	0.07	-	0.03	-	<0.02	-	<0.02	-	<0.02
Upper Currumbene Creek	Pathway	MW038	0026_MW038_240214	14 Feb 2024	Normal	0.09	0.04	<0.02	<0.01	0.21	0.21	-	0.13	-	<0.02	-	<0.02	-	<0.02
Upper Currumbene Creek	Pathway	MW038	0026_MW038_250212	12 Feb 2025	Normal	0.04	0.02	0.03	<0.01	0.21	0.21	-	0.06	-	<0.02	-	<0.02	-	<0.02
Upper Currumbene Creek	Receptor	MW003	0026_MW03_161014	14 Oct 2016	Normal	<0.01	<0.01	<0.01	<0.01	-	-	-	<0.01	-	<0.01	-	-	-	-
Upper Currumbene Creek	Receptor	MW003	0026_MW03_161115	15 Nov 2016	Normal	<0.01	<0.01	<0.01	<0.01	-	-	-	<0.01	-	<0.01	-	-	-	-
Upper Currumbene Creek	Receptor	MW003	0026_MW03_170523	23 May 2017	Normal	<0.01	<0.01	<0.01	<0.01	-	-	-	<0.01	-	<0.01	-	<0.01	-	<0.01
Upper Currumbene Creek	Receptor	MW003	0026_MW03_200227	27 Feb 2020	Normal	<0.01	<0.02	<0.02	<0.01	<0.01	<0.01	-	<0.01	-	<0.02	-	<0.02	-	<0.02
Upper Currumbene Creek	Receptor	MW003	0026_MW003_200825	25 Aug 2020	Normal	0.02	<0.02	<0.02	<0.01	0.02	0.02	-	0.02	-	<0.02	-	<0.02	-	<0.02
Upper Currumbene Creek	Receptor	MW003	0026_QC101_200825	25 Aug 2020	Field_D	<0.01	<0.02	<0.02	<0.01	<0.01	<0.01	-	<0.01	-	<0.02	-	<0.02	-	<0.02
Upper Currumbene Creek	Receptor	MW003	0026_MW003_210208	08 Feb 2021	Normal	0.01	<0.02	<0.02	<0.01	0.01	0.01	-	0.01	-	<0.02	-	<0.02	-	<0.02
Upper Currumbene Creek	Receptor	MW003	0026_MW003_220208	08 Feb 2022	Normal	0.01	0.01	<0.02	<0.01	0.07	0.07	-	0.02	-	<0.02	-	<0.02	-	<0.02
Upper Currumbene Creek	Receptor	MW003	0026_MW003_230214	14 Feb 2023	Normal	0.01	0.01	<0.02	<0.01	0.02	0.02	-	0.02	-	<0.02	-	<0.02	-	<0.02
Upper Currumbene Creek	Receptor	MW003	0026_QC201_230214	14 Feb 2023	Interlab_D	0.01	<0.01	<0.01	<0.01	0.07	-	0.01	0.01	-	<0.02	-	<0.01	-	<0.01
Upper Currumbene Creek	Receptor	MW003	0026_MW003_240215	15 Feb 2024	Normal	<0.01	<0.01	<0.02	<0.01	<0.01	<0.01	-	<0.01	-	<0.02	-	<0.02	-	<0.02
Upper Currumbene Creek	Receptor	MW003	0026_MW003_250212	12 Feb 2025	Normal	<0.01	<0.01	<0.02	<0.01	<0.01	<0.01	-	<0.01	-	<0.02	-	<0.02	-	<0.02
Upper Currumbene Creek	Receptor	MW026	0026_MW26_161116	16 Nov 2016	Normal	3.2 ^{#1}	1.6 ^{#1}	0.28	0.11 ^{#1}	-	-	-	4.8	-	<0.01	-	-	-	-
Upper Currumbene Creek	Receptor	MW026	0026_MW26_161213	13 Dec 2016	Normal	3.8 ^{#1}	2.2 ^{#1}	0.44	0.12 ^{#1}	-	-	-	5.8	-	<0.01	-	-	-	-
Upper Currumbene Creek	Receptor	MW026	0026_MW26_170523	23 May 2017	Normal	2.9 ^{#1}	2.9 ^{#1}	0.29	0.13 ^{#1}	-	-	-	5.7	-	<0.01	-	0.09 ^{#1}	-	0.28 ^{#1}
Upper Currumbene Creek	Receptor	MW026	0026_MW26_170621	21 Jun 2017	Normal	2.8 ^{#1}	1.9 ^{#1}	0.30	0.08 ^{#1}	-	-	-	4.7	-	<0.01	-	0.09 ^{#1}	-	0.30 ^{#1}
Upper Currumbene Creek	Receptor	MW026	0026_MW26_200228	28 Feb 2020	Normal	0.83	2.10	1.04	0.10	7.94	7.36	-	2.93	-	<0.02	-	0.04	-	0.54
Upper Currumbene Creek	Receptor	MW026	0026_MW026_200825	25 Aug 2020	Normal	1.08	3.01	0.76	0.14	8.12	7.50	-	4.09	-	<0.02	-	0.07	-	0.55
Upper Currumbene Creek	Receptor	MW026	0026_MW026_210209	09 Feb 2021	Normal	3.08	3.05	0.47	0.13	7.62	7.09	-	5.14	-	<0.02	-	0.10	-	0.43
Upper Currumbene Creek	Receptor	MW026	0026_MW026_220209	09 Feb 2022	Normal	1.48	2.27	0.42	0.09	5.62	5.18	-	3.75	-	<0.02	-	0.09	-	0.35
Upper Currumbene Creek	Receptor	MW026	0026_MW026_230216	16 Feb 2023	Normal	1.43	2.25	0.42	0.10	5.61	5.19	-	3.68	-	<0.02	-	0.08	-	0.34
Upper Currumbene Creek	Receptor	MW026	0026_MW026_240215	15 Feb 2024	Normal	0.93	1.34	0.28	0.12	3.99	3.71	-	2.27	-	<0.02	-	0.06	-	0.22
Upper Currumbene Creek	Receptor	MW026	0026_MW026_250213	13 Feb 2025	Normal	1.80	2.47	0.31	0.11	5.87	5.38	-	4.27	-	<0.02	-	0.08	-	0.25
Yerriyong Gully	Source	MW006	0026_MW06_161014	14 Oct 2016	Normal	18 ^{#1}	7.6 ^{#1}	1.1	0.30 ^{#1}	-	-	-	21.6	-	<0.01	-	-	-	-
Yerriyong Gully	Source	MW006	0026_MW06_161115	15 Nov 2016	Normal	18 ^{#1}	7.6 ^{#1}	1.1	0.33 ^{#1}	-	-	-	22.6	-	<0.01	-	-	-	-
Yerriyong Gully	Source	MW006	0026_MW06_170523	23 May 2017	Normal	19	7.4	0.52 ^{#1}	0.36 ^{#1}	-	-	-	22.4	-	0.02	-	0.30	-	0.53 ^{#1}
Yerriyong Gully	Source	MW006	0026_MW06_170620	20 Jun 2017	Normal	6.8 ^{#1}	6.4	<0.2	<0.2	-	-	-	13.2	-	<0.2	-	<0.2	-	<0.2
Yerriyong Gully	Source	MW006	0026_MW06_200227	27 Feb 2020	Normal	8.11	5.10	0.38	0.21	15.7	15.0	-	13.2	-	<0.02	-	0.18	-	0.46
Yerriyong Gully	Source	MW006	0026_MW006_200826	26 Aug 2020	Normal	8.48	4.83	0.32	0.20	15.9	15.1	-	13.3	-	0.03	-	0.22	-	0.50
Yerriyong Gully	Source	MW006	0026_MW006_210208	08 Feb 2021	Normal	8.34	4.54	0.34	0.23	15.5	14.8	-	13.1	-	<0.02	-	0.18	-	0.50
Yerriyong Gully	Source	MW006	0026_MW006_220209	09 Feb 2022	Normal	4.45	2.96	0.23	0.12	8.94	8.52	-	7.41	-	<0.02	-	0.15	-	0.27
Yerriyong Gully	Source	MW006	0026_MW006_230213	13 Feb 2023	Normal	4.47	3.53	0.36	0.16	9.94	9.40	-	8.00	-	<0.02	-	0.14	-	0.40
Yerriyong Gully	Source	MW006	0026_MW006_240214	14 Feb 2024	Normal	5.07	2.05	0.20	0.14	8.55	8.21	-	7.12	-	<0.02	-	0.11	-	0.23
Yerriyong Gully	Source	MW006	0026_MW006_250212	12 Feb 2025	Normal	6.78	4.61	0.34	0.23	14.0	13.2	-	11.4	-	<0.02	-	0.21	-	0.42
Yerriyong Gully	Source	MW008	0026_MW08_161013	13 Oct 2016	Normal	4.0 ^{#1}	12 ^{#1}	2.0	0.36 ^{#1}	-	-	-	16	-	<0.01	-	-	-	-



Appendix C
Table C3
Historical Groundwater Analytical Results

	PFAS				PFAS - Sums					Perfluorodecanesulfonic acid (PFDS)	Perfluoronane sulfonate (PFNS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluoropropanesulfonic acid (PFPrS)	Perfluoropentane sulfonic acid (PFPeS)
	Perfluorooctane sulfonic acid (PFOS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluorobutane sulfonic acid (PFBS)	Perfluorooctanoic acid (PFOA)	PFAS (Sum of Total)	PFAS (Sum of Total)\(WA DER List)	Sum of US EPA PFAS (PFOS + PFOA)*	Sum of PFHxS and PFOS	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*					
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L					
EQL	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
ADWG 2011 Health (v4.0 updated June 2025)	0.008	0.03	1	0.2										
PFAS NEMP 3.0 2025 Freshwater 99%	0.00023			19										
PFAS NEMP 3.0 2025 Recreational water quality	2	2		10				2						

Catchment	SPR	Location	Field ID	Date	Sample Type	Perfluorooctane sulfonic acid (PFOS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluorobutane sulfonic acid (PFBS)	Perfluorooctanoic acid (PFOA)	PFAS (Sum of Total)	PFAS (Sum of Total)\(WA DER List)	Sum of US EPA PFAS (PFOS + PFOA)*	Sum of PFHxS and PFOS	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	Perfluorodecanesulfonic acid (PFDS)	Perfluoronane sulfonate (PFNS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluoropropanesulfonic acid (PFPrS)	Perfluoropentane sulfonic acid (PFPeS)
Yerriyong Gully	Source	MW008	0026_MW08_161115	15 Nov 2016	Normal	3.4 ^{#1}	3.6 ^{#1}	0.93	0.24 ^{#1}	-	-	-	7	-	<0.01	-	-	-	-
Yerriyong Gully	Source	MW008	0026_MW08_170523	23 May 2017	Normal	3.1 ^{#1}	7.1 ^{#1}	1.0 ^{#1}	0.20 ^{#1}	-	-	-	10.2	-	<0.01	-	0.32 ^{#1}	-	0.68 ^{#1}
Yerriyong Gully	Source	MW008	0026_MW08_170620	20 Jun 2017	Normal	3.1 ^{#1}	5.0 ^{#1}	1.1 ^{#1}	0.20 ^{#1}	-	-	-	8.1	-	<0.01	-	0.30 ^{#1}	-	0.92 ^{#1}
Yerriyong Gully	Source	MW008	0026_MW08_200227	27 Feb 2020	Normal	3.0 ^{#1}	9.88	1.48	0.27	20.2	18.4	-	13.0	-	<0.02	-	0.37	-	1.46
Yerriyong Gully	Source	MW008	0026_MW08_200825	25 Aug 2020	Normal	4.98	19.9	2.46	0.52	38.4	34.4	-	24.5	-	<0.02	-	0.96	-	3.07
Yerriyong Gully	Source	MW008	0026_MW08_210211	11 Feb 2021	Normal	1.77	13.9	1.73	0.28	24.3	21.5	-	15.7	-	<0.02	-	0.54	-	2.33
Yerriyong Gully	Source	MW008	0026_MW08_220210	10 Feb 2022	Normal	12.7	24.3	3.58	0.83	54.2	49.6	-	37.0	-	<0.02	-	1.47	-	3.13
Yerriyong Gully	Source	MW008	0026_MW08_230213	13 Feb 2023	Normal	2.36	15.7	1.26	0.34	25.4	23.2	-	18.1	-	0.03	-	0.40	-	1.78
Yerriyong Gully	Source	MW008	0026_MW08_240214	14 Feb 2024	Normal	0.95	1.74	0.26	0.08	4.20	3.86	-	2.69	-	<0.02	-	0.08	-	0.26
Yerriyong Gully	Source	MW008	0026_MW08_250212	12 Feb 2025	Normal	2.44	6.78	0.65	0.25	13.2	12.0	-	9.22	-	<0.02	-	0.29	-	0.65
Yerriyong Gully	Source	MW008	0026_QC101_250212	12 Feb 2025	Field_D	3.59	10.4	1.00	0.39	20.5	18.5	-	14.0	-	<0.02	-	0.47	-	1.22
Yerriyong Gully	Source	MW008	0026_QC201_25012	12 Feb 2025	Interlab_D	4.2	14	1.3	0.43	25.15	23.06	4.63	18.2	18.63	<0.01	<0.01	0.44	0.35	1.3
Yerriyong Gully	Source	MW009	0026_MW09_161013	13 Oct 2016	Normal	1.0 ^{#1}	0.46 ^{#1}	0.08	0.05 ^{#1}	-	-	-	1.46	-	<0.01	-	-	-	-
Yerriyong Gully	Source	MW009	0026_MW09_161115	15 Nov 2016	Normal	0.66 ^{#1}	0.23 ^{#1}	0.04	0.03 ^{#1}	-	-	-	0.89	-	<0.01	-	-	-	-
Yerriyong Gully	Source	MW009	0026_MW09_170523	23 May 2017	Normal	1.7 ^{#1}	0.31 ^{#1}	0.03 ^{#1}	0.03 ^{#1}	-	-	-	2.01	-	<0.01	-	0.03 ^{#1}	-	0.03 ^{#1}
Yerriyong Gully	Source	MW009	0026_MW09_170620	20 Jun 2017	Normal	1.8 ^{#1}	0.71 ^{#1}	0.16 ^{#1}	0.08 ^{#1}	-	-	-	2.51	-	<0.01	-	0.05 ^{#1}	-	0.15 ^{#1}
Yerriyong Gully	Source	MW009	0026_MW09_200227	27 Feb 2020	Normal	18.4	19.1	7.04	1.58	74.4	67.1	-	37.5	-	0.02	-	1.13	-	6.05
Yerriyong Gully	Source	MW009	0026_MW09_200826	26 Aug 2020	Normal	10.3	17.7	10.2	2.74	88.9	81.3	-	28.0	-	<0.02	-	1.11	-	6.44
Yerriyong Gully	Source	MW009	0026_QC102_200826	26 Aug 2020	Field_D	9.09	16.3	9.23	2.58	82.4	75.3	-	26.2	-	<0.02	-	1.08	-	5.91
Yerriyong Gully	Source	MW009	0026_FFTA_MW09_080920	08 Sep 2020	Normal	2.3 ^{#1}	3.1 ^{#1}	1.1	0.42 ^{#1}	13.99	12.05	2.72	5.4	5.82	<0.01	-	0.10 ^{#1}	0.83	1.0 ^{#1}
Yerriyong Gully	Source	MW009	0026_QC111_080920	08 Sep 2020	Field_D	1.5 ^{#1}	2.3 ^{#1}	0.94	0.28 ^{#1}	10.15	8.75	1.78	3.8	4.08	<0.01	-	0.08 ^{#1}	0.56	0.76 ^{#1}
Yerriyong Gully	Source	MW009	0026_QC210_080920	08 Sep 2020	Field_D	1.0 ^{#1}	1.4 ^{#1}	0.55	0.15 ^{#1}	5.79	5.1	1.15	2.4	2.55	<0.01	-	0.06 ^{#1}	0.21	0.42 ^{#1}
Yerriyong Gully	Source	MW009	0026_FFTA_MW09_041120	04 Nov 2020	Normal	1.4	1.1 ^{#1}	0.26	0.11 ^{#1}	4.18	3.7	1.51	2.5	2.61	<0.01	-	0.08 ^{#1}	0.12	0.28 ^{#1}
Yerriyong Gully	Source	MW009	0026_MW09_210211	11 Feb 2021	Normal	39.9	28.1	6.69	1.94	98.1	89.3	-	58.0	-	0.16	-	1.82	-	6.58
Yerriyong Gully	Source	MW009	0026_MW09_220210	10 Feb 2022	Normal	0.94	1.05	0.26	0.08	3.78	3.54	-	1.99	-	<0.02	-	0.04	-	0.20
Yerriyong Gully	Source	MW009	0026_MW09_230213	13 Feb 2023	Normal	2.05	28.0	3.53	0.96	56.8	51.8	-	30.6	-	<0.02	-	0.22	-	4.79
Yerriyong Gully	Source	MW009	0026_MW09_240214	14 Feb 2024	Normal	14.9	8.05	1.13	1.38	34.0	32.2	-	23.0	-	<0.02	-	0.67	-	1.08
Yerriyong Gully	Source	MW009	0026_MW09_250212	12 Feb 2025	Normal	94.5	46.5	8.60	7.60	209	193	-	141	-	<0.02	-	4.41	-	7.15
Yerriyong Gully	Source	MW015	0026_MW15_161013	13 Oct 2016	Normal	<0.01	0.03 ^{#1}	0.02	<0.01	-	-	-	0.03	-	<0.01	-	-	-	-
Yerriyong Gully	Source	MW015	0026_MW15_161116	15 Nov 2016	Normal	<0.01	0.05 ^{#1}	0.02	<0.01	-	-	-	0.05	-	<0.01	-	-	-	-
Yerriyong Gully	Source	MW015	0026_MW15_170523	23 May 2017	Normal	0.04 ^{#1}	0.47 ^{#1}	0.09 ^{#1}	0.01 ^{#1}	-	-	-	0.51	-	<0.01	-	<0.01 ^{#1}	-	0.06 ^{#1}
Yerriyong Gully	Source	MW015	0026_MW15_170620	20 Jun 2017	Normal	6.4 ^{#1}	21 ^{#1}	3.5 ^{#1}	0.34 ^{#1}	-	-	-	27.4	-	<0.01	-	0.82 ^{#1}	-	2.9 ^{#1}
Yerriyong Gully	Source	MW015	0026_MW15_200227	27 Feb 2020	Normal	3.06	11.1	1.23	0.34	22.9	20.9	-	16.2	-	<0.02	-	0.70	-	1.28
Yerriyong Gully	Source	MW015	0026_MW015_200826	26 Aug 2020	Normal	1.29	3.94	0.54	0.07	7.11	6.37	-	5.23	-	<0.02	-	0.17	-	0.57
Yerriyong Gully	Source	MW015	0026_MW015_210211	11 Feb 2021	Normal	0.06	0.07	<0.02	<0.01	0.13	0.13	-	0.13	-	<0.02	-	<0.02	-	<0.02
Yerriyong Gully	Source	MW015	0026_MW015_220207	07 Feb 2022	Normal	1.17	2.33	0.39	0.05	4.69	4.26	-	3.50	-	<0.02	-	0.08	-	0.35
Yerriyong Gully	Source	MW015	0026_MW015_230213	13 Feb 2023	Normal	1.35	8.26	0.92	0.08	12.4	11.0	-	9.61	-	<0.02	-	0.21	-	1.18
Yerriyong Gully	Source	MW015	0026_MW015_240214	14 Feb 2024	Normal	1.29	4.17	0.91	0.13	8.33	7.29	-	5.46	-	<0.02	-	0.17	-	0.87
Yerriyong Gully	Source	MW015	0026_MW015_250212	12 Feb 2025	Normal	3.36	22.3	3.47	0.48	38.5	32.6	-	25.6	-	<0.02	-	0.70	-	3.23
Yerriyong Gully	Source	MW016	0026_MW16_161013	13 Oct 2016	Normal	<0.01	<0.01	<0.01	<0.01	-	-	-	<0.01	-	<0.01	-	-	-	-
Yerriyong Gully	Source	MW016	0026_MW16_161116	15 Nov 2016	Normal	<0.01	<0.01	<0.01	<0.01	-	-	-	<0.01	-	<0.01	-	-	-	-
Yerriyong Gully	Source	MW016	0026_MW16_170523	23 May 2017	Normal	<0.01	<0.01	<0.01	<0.01	-	-	-	<0.01	-	<0.01	-	<0.01	-	<0.01
Yerriyong Gully	Source	MW016	0026_MW16_170620	20 Jun 2017	Normal	0.01 ^{#1}	<0.01	<0.01	<0.01	-	-	-	0.01	-	<0.01	-	<0.01	-	<0.01
Yerriyong Gully	Source	MW016	0026_MW16_200227	27 Feb 2020	Normal	<0.01	<0.02	<0.02	<0.01	<0.01	<0.01	-	<0.01	-	<0.02	-	<0.02	-	<0.02
Yerriyong Gully	Source	MW016	0026_QC202_200227	27 Feb 2020	Interlab_D	<0.02	<0.01	<0.01	<0.01	-	-	-	<0.02	-	<0.01	-	<0.01	-	<0.01
Yerriyong Gully	Source	MW016	0026_MW016_200826	26 Aug 2020	Normal	0.09	<0.02	<0.02	<0.01	0.09	0.09	-	0.09	-	<0.02	-	<0.02	-	<0.02
Yerriyong Gully	Source	MW016	0026_MW016_210211	11 Feb 2021	Normal	<0.01	<0.02	<0.02	<0.01	<0.01	<0.01	-	<0.01	-	<0.02	-	<0.02	-	<0.02
Yerriyong Gully	Source	MW016	0026_MW016_220207	07 Feb 2022	Normal	<0.01	<0.01	<0.02	<0.01	<0.01	<0.01	-	<0.01	-	<0.02	-	<0.02	-	<0.02
Yerriyong Gully	Source	MW016	0026_QC200_220207	07 Feb 2022	Interlab_D	<0.01	<0.01	<0.01	<0.01	<0.01	-	<0.01	<0.01	-	<0.02	-	<0.01	-	<0.01
Yerriyong Gully	Source	MW016	0026_MW016_230213	13 Feb 2023	Normal	<0.01	<0.01	<0.02	<0.01	<0.01	<0.01	-	<0.01	-	<0.02	-	<0.02	-	<0.02
Yerriyong Gully	Source	MW016	0026_QC101_230213	13 Feb 2023	Field_D	<0.01	<0.01	<0.02	<0.01	<0.01	<0.01	-	<0.01	-	<0.02	-	<0.02	-	<0.02
Yerriyong Gully	Source	MW016	0026_MW016_240214	14 Feb 2024	Normal	<0.01	<0.01	<0.02	<0.01	<0.01	<0.01	-	<0.01	-	<0.02	-	<0.02	-	<0.02
Yerriyong Gully	Source	MW016	0026_MW016_250212	12 Feb 2025	Normal	<0.01	<0.01	<0.02	<0.01	<0.01	<0.01	-	<0.01	-	<0.02	-	<0.02	-	<0.02



Appendix C
Table C3
Historical Groundwater Analytical Results

	PFAS				PFAS - Sums					Perfluorodecanesulfonic acid (PFDS)	Perfluoronane sulfonate (PFNS)	Perfluoroheptane sulfonic acid (PFHPS)	Perfluoropropanesulfonic acid (PFPrS)	Perfluoropentane sulfonic acid (PFPeS)
	Perfluorooctane sulfonic acid (PFOS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluorobutane sulfonic acid (PFBS)	Perfluorooctanoic acid (PFOA)	PFAS (Sum of Total)	PFAS (Sum of Total)(WA DER List)	Sum of US EPA PFAS (PFOS + PFOA)*	Sum of PFHxS and PFOS	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*					
EQL	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
ADWG 2011 Health (v4.0 updated June 2025)	0.008	0.03	1	0.2										
PFAS NEMP 3.0 2025 Freshwater 99%	0.00023			19										
PFAS NEMP 3.0 2025 Recreational water quality	2	2		10				2						

Catchment	SPR	Location	Field ID	Date	Sample Type	Perfluorooctane sulfonic acid (PFOS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluorobutane sulfonic acid (PFBS)	Perfluorooctanoic acid (PFOA)	PFAS (Sum of Total)	PFAS (Sum of Total)(WA DER List)	Sum of US EPA PFAS (PFOS + PFOA)*	Sum of PFHxS and PFOS	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	Perfluorodecanesulfonic acid (PFDS)	Perfluoronane sulfonate (PFNS)	Perfluoroheptane sulfonic acid (PFHPS)	Perfluoropropanesulfonic acid (PFPrS)	Perfluoropentane sulfonic acid (PFPeS)
Yerriyong Gully	Source	MW017	0026_MW17_161013	13 Oct 2016	Normal	<0.01	<0.01	<0.01	<0.01	-	-	-	<0.01	-	<0.01	-	-	-	-
Yerriyong Gully	Source	MW017	0026_MW17_161116	15 Nov 2016	Normal	0.05 ^{#1}	0.27 ^{#1}	0.04	<0.01	-	-	-	0.32	-	<0.01	-	-	-	-
Yerriyong Gully	Source	MW017	0026_MW17_170523	23 May 2017	Normal	<0.01	0.07	0.01	<0.01	-	-	-	0.07	-	<0.01	-	<0.01	-	<0.01
Yerriyong Gully	Source	MW017	0026_MW17_170620	20 Jun 2017	Normal	0.01 ^{#1}	0.07 ^{#1}	0.01	<0.01	-	-	-	0.08	-	<0.01	-	<0.01	-	0.01 ^{#1}
Yerriyong Gully	Source	MW017	0026_MW17_200227	27 Feb 2020	Normal	0.09	0.59	0.07	0.01	0.95	0.88	-	0.68	-	<0.02	-	<0.02	-	0.07
Yerriyong Gully	Source	MW017	0026_MW017_200826	26 Aug 2020	Normal	0.88	10.8	2.01	0.34	21.2	18.8	-	11.7	-	<0.02	-	0.22	-	2.27
Yerriyong Gully	Source	MW017	0026_MW017_210211	11 Feb 2021	Normal	0.81	5.89	0.90	0.21	10.6	9.54	-	6.70	-	<0.02	-	0.16	-	0.88
Yerriyong Gully	Source	MW017	0026_QC102_210211	11 Feb 2021	Field_D	0.81	5.52	0.95	0.21	10.3	9.28	-	6.33	-	<0.02	-	0.15	-	0.83
Yerriyong Gully	Source	MW017	0026_MW017_220207	07 Feb 2022	Normal	0.82	8.74	1.18	0.14	14.6	13.0	-	9.56	-	<0.02	-	0.12	-	1.47
Yerriyong Gully	Source	MW017	0026_MW017_230213	13 Feb 2023	Normal	0.18	1.19	0.18	0.03	2.06	1.90	-	1.37	-	<0.02	-	<0.02	-	0.16
Yerriyong Gully	Source	MW017	0026_QC100_230213	13 Feb 2023	Field_D	0.41	2.53	0.41	0.07	4.65	4.23	-	2.94	-	<0.02	-	0.04	-	0.38
Yerriyong Gully	Source	MW017	0026_MW017_240214	14 Feb 2024	Normal	3.46	12.4	1.26	0.35	22.5	20.6	-	14.8	-	<0.02	-	0.22	-	1.62
Yerriyong Gully	Source	MW017	0026_QC101_240214	14 Feb 2024	Field_D	3.83	17.4	1.78	0.32	29.6	27.0	-	21.0	-	<0.02	-	0.30	-	2.30
Yerriyong Gully	Source	MW017	0026_QC201_240214	14 Feb 2024	Interlab_D	3.3	13	1.3	0.26	22	-	2.5	15	-	<0.02	-	0.25	-	1.6
Yerriyong Gully	Source	MW017	0026_MW017_250212	12 Feb 2025	Normal	4.21	15.6	1.42	0.49	28.2	25.4	-	19.8	-	<0.02	-	0.45	-	1.77
Yerriyong Gully	Source	MW045	0026_MW45_170522	22 May 2017	Normal	0.05 ^{#1}	0.15 ^{#1}	<0.01	<0.01	-	-	-	0.2	-	<0.01	-	<0.01	-	<0.01
Yerriyong Gully	Source	MW045	0026_MW45_170619	19 Jun 2017	Normal	0.04 ^{#1}	0.11 ^{#1}	<0.01	<0.01	-	-	-	0.15	-	<0.01	-	<0.01	-	<0.01
Yerriyong Gully	Source	MW045	0026_MW45_200227	27 Feb 2020	Normal	0.12	0.18	<0.02	<0.01	0.30	0.30	-	0.30	-	<0.02	-	<0.02	-	<0.02
Yerriyong Gully	Source	MW045	0026_MW045_200826	26 Aug 2020	Normal	0.10	0.19	<0.02	<0.01	0.29	0.29	-	0.29	-	<0.02	-	<0.02	-	<0.02
Yerriyong Gully	Source	MW045	0026_MW045_210211	11 Feb 2021	Normal	0.03	0.10	<0.02	<0.01	0.13	0.13	-	0.13	-	<0.02	-	<0.02	-	<0.02
Yerriyong Gully	Source	MW045	0026_QC202_210211	11 Feb 2021	Interlab_D	<0.02	0.091	<0.01	<0.01	-	-	-	0.091	-	<0.01	-	<0.01	-	<0.01
Yerriyong Gully	Source	MW045	0026_MW045_220207	07 Feb 2022	Normal	0.03	0.12	<0.02	<0.01	0.15	0.15	-	0.15	-	<0.02	-	<0.02	-	<0.02
Yerriyong Gully	Source	MW045	0026_MW045_230213	13 Feb 2023	Normal	0.02	0.09	<0.02	<0.01	0.11	0.11	-	0.11	-	<0.02	-	<0.02	-	<0.02
Yerriyong Gully	Source	MW045	0026_MW045_240214	14 Feb 2024	Normal	0.03	0.11	<0.02	<0.01	0.14	0.14	-	0.14	-	<0.02	-	<0.02	-	<0.02
Yerriyong Gully	Source	MW045	0026_MW045_250212	12 Feb 2025	Normal	0.06	0.14	<0.02	<0.01	0.20	0.20	-	0.20	-	<0.02	-	<0.02	-	<0.02
Yerriyong Gully	Source	MW046	0026_MW46_170522	22 May 2017	Normal	0.03 ^{#1}	0.10 ^{#1}	0.02	<0.01	-	-	-	0.13	-	<0.01	-	<0.01	-	0.01 ^{#1}
Yerriyong Gully	Source	MW046	0026_MW46_170619	19 Jun 2017	Normal	<0.01	0.06 ^{#1}	0.02	<0.01	-	-	-	0.06	-	<0.01	-	<0.01	-	0.01 ^{#1}
Yerriyong Gully	Source	MW046	0026_MW046_200826	26 Aug 2020	Normal	0.11	0.10	0.03	<0.01	0.29	0.29	-	0.21	-	<0.02	-	<0.02	-	<0.02
Yerriyong Gully	Source	MW046	0026_MW046_210211	11 Feb 2021	Normal	0.07	0.07	0.03	<0.01	0.21	0.21	-	0.14	-	<0.02	-	<0.02	-	<0.02
Yerriyong Gully	Source	MW046	0026_MW046_220207	07 Feb 2022	Normal	0.03	0.09	0.02	<0.01	0.22	0.22	-	0.12	-	<0.02	-	<0.02	-	<0.02
Yerriyong Gully	Source	MW046	0026_MW046_230213	13 Feb 2023	Normal	<0.01	0.08	0.05	<0.01	0.16	0.13	-	0.08	-	<0.02	-	<0.02	-	0.03
Yerriyong Gully	Pathway	MW039	0026_MW39_170523	23 May 2017	Normal	<0.01	<0.01	<0.01	<0.01	-	-	-	<0.01	-	<0.01	-	<0.01	-	<0.01
Yerriyong Gully	Pathway	MW039	0026_MW39_170621	21 Jun 2017	Normal	<0.01	<0.01	<0.01	<0.01	-	-	-	<0.01	-	<0.01	-	<0.01	-	<0.01
Yerriyong Gully	Pathway	MW039	0026_MW39_200228	28 Feb 2020	Normal	0.01	<0.02	<0.02	<0.01	0.01	0.01	-	0.01	-	<0.02	-	<0.02	-	<0.02
Yerriyong Gully	Pathway	MW039	0026_MW039_200825	25 Aug 2020	Normal	<0.01	<0.02	<0.02	<0.01	<0.01	<0.01	-	<0.01	-	<0.02	-	<0.02	-	<0.02
Yerriyong Gully	Pathway	MW039	0026_MW039_210209	09 Feb 2021	Normal	0.02	<0.02	<0.02	<0.01	0.02	0.02	-	0.02	-	<0.02	-	<0.02	-	<0.02
Yerriyong Gully	Pathway	MW039	0026_MW039_220210	10 Feb 2022	Normal	0.04	0.01	<0.02	<0.01	0.05	0.05	-	0.05	-	<0.02	-	<0.02	-	<0.02
Yerriyong Gully	Pathway	MW039	0026_MW039_230215	15 Feb 2023	Normal	0.01	<0.01	<0.02	<0.01	0.01	0.01	-	0.01	-	<0.02	-	<0.02	-	<0.02
Yerriyong Gully	Pathway	MW039	0026_MW039_240216	16 Feb 2024	Normal	0.01	<0.01	<0.02	<0.01	0.01	0.01	-	0.01	-	<0.02	-	<0.02	-	<0.02
Yerriyong Gully	Pathway	MW039	0026_MW039_250211	11 Feb 2025	Normal	0.05	<0.01	<0.02	<0.01	0.05	0.05	-	0.05	-	<0.02	-	<0.02	-	<0.02
Yerriyong Gully perched	Source	MW009P	0026_MW09_P_161013	13 Oct 2016	Normal	303 ^{#1}	77 ^{#1}	10	10 ^{#1}	-	-	-	377	-	<1.5	-	-	-	-
Yerriyong Gully perched	Source	MW009P	0026_MW09_P_161115	15 Nov 2016	Normal	437 ^{#1}	81 ^{#1}	11	13 ^{#1}	-	-	-	511	-	<0.01	-	-	-	-
Yerriyong Gully perched	Source	MW009P	0026_QC151_161115	15 Nov 2016	Field_D	437 ^{#1}	87 ^{#1}	11	13 ^{#1}	-	-	-	517	-	<0.3	-	-	-	-
Yerriyong Gully perched	Source	MW009P	0026_QC151_161115	15 Nov 2016	Field_D	440 ^{#1}	87 ^{#1}	12	13 ^{#1}	-	-	-	527	-	<0.3	-	-	-	-
Yerriyong Gully perched	Source	MW009P	0026_MW09_P_170523	23 May 2017	Normal	407 ^{#1}	110 ^{#1}	11 ^{#1}	15 ^{#1}	-	-	-	570	-	<0.01	-	9.9 ^{#1}	-	10 ^{#1}
Yerriyong Gully perched	Source	MW009P	0026_MW09_P_170620	20 Jun 2017	Normal	303 ^{#1}	70 ^{#1}	9.0 ^{#1}	11 ^{#1}	-	-	-	420	-	<2	-	4.6 ^{#1}	-	8.2 ^{#1}
Yerriyong Gully perched	Source	MW009P	0026_MW09_P_200227	27 Feb 2020	Normal	333	57.8	7.57	9.79	400	380	-	310	-	0.42	-	7.28	-	10.9
Yerriyong Gully perched	Source	MW009P	0026_MW009_P_200826	26 Aug 2020	Normal	446	120	17.5	23.1	827	784	-	616	-	1.31	-	14.7	-	23.2
Yerriyong Gully perched	Source	MW009P	0026_FFTA_MW09S_0809	08 Sep 2020	Normal	389	75	9.8	9.0	432.11	408.4	269	335	344	<0.01	-	6.0 ^{#1}	4.1	10 ^{#1}
Yerriyong Gully perched	Source	MW009P	0026_FFTA_MW09s_0411	04 Nov 2020	Normal	320 ^{#1}	97 ^{#1}	10	11 ^{#1}	533.02	510.2	331	417	428	<0.01	-	4.5 ^{#1}	4.2	10 ^{#1}
Yerriyong Gully perched	Source	MW009P	0026_MW009_P_210211	11 Feb 2021	Normal	387	85.3	14.6	14.4	611	582	-	472	-	1.55	-	9.36	-	14.8
Yerriyong Gully perched	Source	MW009P	0026_MW009P_220207	07 Feb 2022	Normal	333	66.8	8.47	8.63	495	479	-	400	-	0.38	-	5.08	-	8.22
Yerriyong Gully perched	Source	MW009P	0026_MW009P_230213	13 Feb 2023	Normal	189	43.9	3.64	4.49	276	264	-	233	-	1.26	-	4.83	-	4.39



Appendix C
Table C3
Historical Groundwater Analytical Results

	PFAS				PFAS - Sums					Perfluorodecane sulfonic acid (PFDS)	Perfluoronane sulfonate (PFNS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluoropropanesulfonic acid (PFPrS)	Perfluoropentane sulfonic acid (PFPeS)
	Perfluorooctane sulfonic acid (PFOS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluorobutane sulfonic acid (PFBS)	Perfluorooctanoic acid (PFOA)	PFAS (Sum of Total)	PFAS (Sum of Total)(WA DER List)	Sum of US EPA PFAS (PFOS + PFOA)*	Sum of PFHxS and PFOS	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*					
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
ADWG 2011 Health (v4.0 updated June 2025)	0.008	0.03	1	0.2										
PFAS NEMP 3.0 2025 Freshwater 99%	0.00023			19										
PFAS NEMP 3.0 2025 Recreational water quality	2	2		10				2						

Catchment	SPR	Location	Field ID	Date	Sample Type	PFOS	PFHxS	PFBS	PFOA	PFAS (Sum of Total)	PFAS (Sum of Total)(WA DER List)	Sum of US EPA PFAS (PFOS + PFOA)*	Sum of PFHxS and PFOS	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	PFDS	PFNS	PFHpS	PFPrS	PFPeS
Yerriyong Gully perched	Source	MW009P	0026_MW009P_240214	14 Feb 2024	Normal	07.8	24.1	2.91	3.40	149	142	-	112	-	0.37	-	2.28	-	3.37
Yerriyong Gully perched	Source	MW009P	0026_MW009P_250212	12 Feb 2025	Normal	17.8	40.2	4.66	7.04	282	267	-	213	-	0.62	-	3.14	-	4.57

Statistics	PFOS	PFHxS	PFBS	PFOA	PFAS (Sum of Total)	PFAS (Sum of Total)(WA DER List)	Sum of US EPA PFAS (PFOS + PFOA)*	Sum of PFHxS and PFOS	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	PFDS	PFNS	PFHpS	PFPrS	PFPeS
Number of Results	322	322	322	322	221	210	21	322	10	322	4	275	10	275
Number of Detects	207	204	169	133	169	164	15	228	10	14	0	103	8	138
Minimum Concentration	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	<0.01	<0.01	<0.01	<0.01	0.01
Minimum Detect	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	ND	0.02	0.12	0.01
Maximum Concentration	496	120	17.5	23.1	827	784	331	616	428	<2	<0.01	14.7	4.2	23.2
Maximum Detect	496	120	17.5	23.1	827	784	331	616	428	1.55	ND	14.7	4.2	23.2
Average Concentration *	18	6.6	1.1	0.7	29	29	30	25	82	0.034	0.005	0.42	1.1	1
Geometric Average *	0.13	0.16	0.071	0.027	0.5	0.52	0.25	0.26	4.8	0.0095	0.005	0.032	0.24	0.068
Median Concentration *	0.05	0.07	0.02	0.005	0.33	0.34	0.49	0.13	4.95	0.01	0.005	0.01	0.325	0.01
Standard Deviation *	74	18	2.6	2.6	100	97	90	91	162	0.16	0	1.5	1.6	2.6
Geometric Standard Deviation *	28	26	13	10	36	35	39	35	25	2.4	1	7.2	10	12
95% UCL (Student's-t) *	24.68	8.327	1.312	0.938	40.53	39.85	63.76	32.91	175.4	0.0483	0.005	0.574	2.021	1.281
Number of Env Standard Exceedances	322	186	72	83	0	0	0	115	0	0	0	0	0	0
Number of Env Standard Exceedances (Detects Only)	207	185	72	83	0	0	0	115	0	0	0	0	0	0
% of Detects	64	63	52	41	76	78	71	71	100	4	0	37	80	50
% of Non-Detects	36	37	48	59	24	22	29	29	0	96	100	63	20	50
% of Detects at or above Env Standards	64	57	22	26	0	0	0	36	0	0	0	0	0	0
% of Results Below Env Standards or Non-Detect	36	43	78	74	100	100	100	64	100	100	100	100	100	100

* A Non Detect Multiplier of 0.5 has been applied.

Comments

#1 Quantification of linear and branched isomers has been conducted as a single total response using the relative response factor for the corresponding linear/branched standard.

Environmental Standards

NHMRC, June 2025, ADWG 2011 Health (v4.0 updated June 2025)
HEPA, March 2025, PFAS NEMP 3.0 2025 Freshwater 99%
HEPA, March 2025, PFAS NEMP 3.0 2025 Recreational water quality



Appendix C
Table C3
Historical Groundwater Analytical Results

	Perfluorooctanesulfonic acid (PFOS)	Perfluorobutanoic acid (PFBA)	Perfluorodecanoic acid (PFDA)	Perfluorododecanoic acid (PFDDa)	Perfluoroheptanoic acid (PFHpA)	Perfluorohexanoic acid (PFHxA)	Perfluorononanoic acid (PFNA)	Perfluoropentanoic acid (PFPeA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorotridecanoic acid (PFTriDA)	Perfluoroundecanoic acid (PFUnDA)	Perfluorooctadecanoic acid (PFODA)	Perfluoro-n-hexadecanoic acid (PFHxDA)
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL	0.01	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.05	0.02
ADWG 2011 Health (v4.0 updated June 2025)													
PFAS NEMP 3.0 2025 Freshwater 99%													
PFAS NEMP 3.0 2025 Recreational water quality													

Catchment	SPR	Location	Field ID	Date	Sample Type													
Braidwood Road drain	Pathway	MW018	0026_MW18_161114	08 Feb 2017	Normal	-	0.07	<0.01	<0.01	0.04 ^{#1}	0.47 ^{#1}	<0.01	0.05 ^{#1}	<0.01	<0.01	<0.01	-	-
Braidwood Road drain	Pathway	MW018	0026_MW18_170522	22 May 2017	Normal	-	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	-
Braidwood Road drain	Pathway	MW018	0026_MW18_170619	19 Jun 2017	Normal	-	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	-
Braidwood Road drain	Pathway	MW018	0026_QC157_170619	19 Jun 2017	Field_D	-	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	-
Braidwood Road drain	Pathway	MW018	0026_QC238_170620	20 Jun 2017	Interlab_D	-	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05	<0.02	<0.02	-	-
Braidwood Road drain	Pathway	MW018	0026_MW18_200226	26 Feb 2020	Normal	-	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05	<0.02	<0.02	-	-
Braidwood Road drain	Pathway	MW018	0026_MW018_200824	24 Aug 2020	Normal	-	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05	<0.02	<0.02	-	-
Braidwood Road drain	Pathway	MW018	0026_MW018_210209	09 Feb 2021	Normal	-	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05	<0.02	<0.02	-	-
Braidwood Road drain	Pathway	MW018	0026_MW018_220209	09 Feb 2022	Normal	-	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05	<0.02	<0.02	-	-
Braidwood Road drain	Pathway	MW018	0026_MW018_230214	14 Feb 2023	Normal	-	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05	<0.02	<0.02	-	-
Braidwood Road drain	Pathway	MW018	0026_MW018_240215	15 Feb 2024	Normal	-	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05	<0.02	<0.02	-	-
Braidwood Road drain	Pathway	MW018	0026_MW018_250213	13 Feb 2025	Normal	-	<0.1	<0.02	<0.02	<0.02	0.02	<0.02	0.03	<0.05	<0.02	<0.02	-	-
Braidwood Road drain	Pathway	MW018	0026_QC103_250213	13 Feb 2025	Field_D	-	<0.1	<0.02	<0.02	<0.02	0.02	<0.02	0.02	<0.05	<0.02	<0.02	-	-
Braidwood Road drain	Pathway	MW018	0026_QC203_25013	13 Feb 2025	Interlab_D	-	<0.05	<0.01	<0.01	<0.01	0.03	<0.01	0.03	<0.01	<0.01	<0.01	-	-
Braidwood Road drain	Pathway	MW044	0026_MW44_170522	22 May 2017	Normal	-	0.70	<0.01	<0.01	0.42	4.1 ^{#1}	<0.01	1.2 ^{#1}	<0.01	<0.01	<0.01	-	-
Braidwood Road drain	Pathway	MW044	0026_MW44_170620	20 Jun 2017	Normal	-	0.92	<0.01	<0.01	0.65	6.9	<0.01	1.3	<0.01	<0.01	<0.01	-	-
Braidwood Road drain	Pathway	MW044	0026_MW44_200226	26 Feb 2020	Normal	-	0.7	<0.02	<0.02	0.59	5.81	<0.02	1.08	<0.05	<0.02	<0.02	-	-
Braidwood Road drain	Pathway	MW044	0026_MW044_200824	24 Aug 2020	Normal	-	0.5	<0.02	<0.02	0.50	4.86	<0.02	0.85	<0.05	<0.02	<0.02	-	-
Braidwood Road drain	Pathway	MW044	0026_QC100_200824	24 Aug 2020	Field_D	-	0.6	<0.02	<0.02	0.58	5.80	<0.02	1.02	<0.05	<0.02	<0.02	-	-
Braidwood Road drain	Pathway	MW044	0026_MW044_210209	09 Feb 2021	Normal	-	0.4	<0.02	<0.02	0.53	3.55	<0.02	0.71	<0.05	<0.02	<0.02	-	-
Braidwood Road drain	Pathway	MW044	0026_QC100_210209	09 Feb 2021	Field_D	-	0.4	<0.02	<0.02	0.62	5.46	<0.02	0.84	<0.05	<0.02	<0.02	-	-
Braidwood Road drain	Pathway	MW044	0026_MW044_220209	09 Feb 2022	Normal	-	<0.1	<0.02	<0.02	<0.02	0.10	<0.02	<0.02	<0.05	<0.02	<0.02	-	-
Braidwood Road drain	Pathway	MW044	0026_QC203_220209	09 Feb 2022	Interlab_D	-	<0.02	<0.02	<0.05	<0.01	0.01	<0.01	<0.02	<0.5	<0.1	<0.02	-	-
Braidwood Road drain	Pathway	MW044	0026_MW044_230214	14 Feb 2023	Normal	-	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05	<0.02	<0.02	-	-
Braidwood Road drain	Pathway	MW044	0026_MW044_250213	13 Feb 2025	Normal	-	<0.1	<0.02	<0.02	<0.02	0.02	<0.02	<0.02	<0.05	<0.02	<0.02	-	-
Braidwood Road drain	Receptor	MW024	0026_MW24_161115	15 Nov 2016	Normal	-	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	-
Braidwood Road drain	Receptor	MW024	0026_QC149_161115	15 Nov 2016	Field_D	-	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	-
Braidwood Road drain	Receptor	MW024	0026_QC150_161115	15 Nov 2016	Field_D	-	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	-
Braidwood Road drain	Receptor	MW024	0026_MW24_161213	14 Dec 2016	Normal	-	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	-
Braidwood Road drain	Receptor	MW024	0026_MW24_170525	25 May 2017	Normal	-	<0.05	<0.01	<0.01	0.02 ^{#1}	0.13 ^{#1}	<0.01	0.03 ^{#1}	<0.01	<0.01	<0.01	-	-
Braidwood Road drain	Receptor	MW024	0026_MW24_170621	21 Jun 2017	Normal	-	<0.05	<0.01	<0.01	<0.01	0.06 ^{#1}	<0.01	0.02 ^{#1}	<0.01	<0.01	<0.01	-	-
Braidwood Road drain	Receptor	MW024	0026_MW24_200228	28 Feb 2020	Normal	-	<0.1	<0.02	<0.02	<0.02	0.03	<0.02	<0.02	<0.05	<0.02	<0.02	-	-
Braidwood Road drain	Receptor	MW024	0026_MW024_200825	25 Aug 2020	Normal	-	<0.1	<0.02	<0.02	0.02	0.12	<0.02	0.04	<0.05	<0.02	<0.02	-	-
Braidwood Road drain	Receptor	MW024	0026_MW024_210209	09 Feb 2021	Normal	-	<0.1	<0.02	<0.02	0.03	0.12	<0.02	0.04	<0.05	<0.02	<0.02	-	-
Braidwood Road drain	Receptor	MW024	0026_MW024_220209	09 Feb 2022	Normal	-	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05	<0.02	<0.02	-	-
Braidwood Road drain	Receptor	MW024	0026_MW024_230216	16 Feb 2023	Normal	-	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05	<0.02	<0.02	-	-
Braidwood Road drain	Receptor	MW024	0026_MW024_240215	15 Feb 2024	Normal	-	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05	<0.02	<0.02	-	-
Braidwood Road drain	Receptor	MW024	0026_MW024_250211	11 Feb 2025	Normal	-	<0.1	<0.02	<0.02	<0.02	0.02	<0.02	<0.02	<0.05	<0.02	<0.02	-	-
Braidwood Road drain	Receptor	MW031	0026_MW31_170525	25 May 2017	Normal	-	<0.05	<0.01	<0.01	<0.01	0.02 ^{#1}	<0.01	<0.01	<0.01	<0.01	<0.01	-	-
Braidwood Road drain	Receptor	MW031	0026_MW31_170621	21 Jun 2017	Normal	-	<0.05	<0.01	<0.01	<0.01	0.02 ^{#1}	<0.01	<0.01	<0.01	<0.01	<0.01	-	-
Braidwood Road drain	Receptor	MW031	0026_QC159_170621	21 Jun 2017	Field_D	-	<0.05	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	-	-
Braidwood Road drain	Receptor	MW031	0026_QC239_170621	21 Jun 2017	Interlab_D	-	<0.1	<0.02	<0.02	<0.02	0.02	<0.02	<0.02	<0.05	<0.02	<0.02	-	-
Braidwood Road drain	Receptor	MW031	0026_MW31_200228	28 Feb 2020	Normal	-	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05	<0.02	<0.02	-	-
Braidwood Road drain	Receptor	MW031	0026_MW031_200825	25 Aug 2020	Normal	-	<0.1	<0.02	<0.02	<0.02	0.05	<0.02	<0.02	<0.05	<0.02	<0.02	-	-
Braidwood Road drain	Receptor	MW031	0026_MW031_210209	09 Feb 2021	Normal	-	<0.1	<0.02	<0.02	<0.02	0.03	<0.02	<0.02	<0.05	<0.02	<0.02	-	-
Braidwood Road drain	Receptor	MW031	0026_MW031_220209	09 Feb 2022	Normal	-	<0.1	<0.02	<0.02	<0.02	0.04	<0.02	<0.02	<0.05	<0.02	<0.02	-	-
Braidwood Road drain	Receptor	MW031	0026_MW031_230216	16 Feb 2023	Normal	-	<0.1	<0.02	<0.02	<0.02	0.02	<0.02	<0.02	<0.05	<0.02	<0.02	-	-
Braidwood Road drain	Receptor	MW031	0026_MW031_240216	16 Feb 2024	Normal	-	<0.1	<0.02	<0.02	<0.02	0.05	<0.02	<0.02	<0.05	<0.02	<0.02	-	-
Braidwood Road drain	Receptor	MW031	0026_MW031_250211	11 Feb 2025	Normal	-	<0.1	<0.02	<0.02	<0.02	0.02	<0.02	<0.02	<0.05	<0.02	<0.02	-	-
Braidwood Road drain perched	Source	MW012P	0026_MW12_P_161013	13 Oct 2016	Normal	-	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	-
Braidwood Road drain perched	Source	MW012P	0026_MW12_P_161115	15 Nov 2016	Normal	-	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	-
Braidwood Road drain perched	Source	MW012P	0026_MW12_P_170523	23 May 2017	Normal	-	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	-
Braidwood Road drain perched	Source	MW012P	0026_MW12_P_170620	20 Jun 2017	Normal	-	<0.05	<0.01	<0.01	<0.01	0.02 ^{#1}	<0.01	<0.01	<0.01	<0.01	<0.01	-	-



Appendix C
Table C3
Historical Groundwater Analytical Results

	Perfluoromethanesulfonic acid (PFNS)	Perfluorobutanoic acid (PFBA)	Perfluorodecanoic acid (PFDA)	Perfluorododecanoic acid (PFDDoDA)	Perfluoroheptanoic acid (PFHpA)	Perfluorohexanoic acid (PFHxA)	Perfluorononanoic acid (PFNA)	Perfluoropentanoic acid (PFPeA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorotridecanoic acid (PFTriDA)	Perfluoroundecanoic acid (PFUnDA)	Perfluorooctadecanoic acid (PFODDA)	Perfluoro-n-hexadecanoic acid (PFHxDA)
EQL	0.01	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.05	0.02
ADWG 2011 Health (v4.0 updated June 2025)													
PFAS NEMP 3.0 2025 Freshwater 99%													
PFAS NEMP 3.0 2025 Recreational water quality													

Catchment	SPR	Location	Field ID	Date	Sample Type	Perfluoromethanesulfonic acid (PFNS)	Perfluorobutanoic acid (PFBA)	Perfluorodecanoic acid (PFDA)	Perfluorododecanoic acid (PFDDoDA)	Perfluoroheptanoic acid (PFHpA)	Perfluorohexanoic acid (PFHxA)	Perfluorononanoic acid (PFNA)	Perfluoropentanoic acid (PFPeA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorotridecanoic acid (PFTriDA)	Perfluoroundecanoic acid (PFUnDA)	Perfluorooctadecanoic acid (PFODDA)	Perfluoro-n-hexadecanoic acid (PFHxDA)
Braidwood Road drain perched	Source	MW012P	0026_MW12_P_200227	27 Feb 2020	Normal	-	<0.1	<0.02	<0.02	<0.02	0.18	<0.02	0.06	<0.05	<0.02	<0.02	-	-
Braidwood Road drain perched	Source	MW012P	0026_MW012_P_200826	26 Aug 2020	Normal	-	<0.1	<0.02	<0.02	<0.02	0.05	<0.02	<0.02	<0.05	<0.02	<0.02	-	-
Braidwood Road drain perched	Source	MW012P	0026_MW012_P_210211	11 Feb 2021	Normal	-	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05	<0.02	<0.02	-	-
Braidwood Road drain perched	Source	MW012P	0026_MW012P_220207	07 Feb 2022	Normal	-	<0.1	<0.02	<0.02	<0.02	0.09	<0.02	<0.02	<0.05	<0.02	<0.02	-	-
Braidwood Road drain perched	Source	MW012P	0026_MW012P_230213	13 Feb 2023	Normal	-	<0.1	<0.02	<0.02	<0.02	0.02	<0.02	<0.02	<0.05	<0.02	<0.02	-	-
Braidwood Road drain perched	Source	MW012P	0026_MW012P_240214	14 Feb 2024	Normal	-	<0.1	<0.02	<0.02	<0.02	0.05	<0.02	<0.02	<0.05	<0.02	<0.02	-	-
Braidwood Road drain perched	Source	MW012P	0026_MW012P_250212	12 Feb 2025	Normal	-	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05	<0.02	<0.02	-	-
Cabbage Tree Creek	Receptor	MW072	0026_MW072_200827	27 Aug 2020	Normal	-	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05	<0.02	<0.02	-	-
Cabbage Tree Creek	Receptor	MW072	0026_MW072_210209	09 Feb 2021	Normal	-	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05	<0.02	<0.02	-	-
Cabbage Tree Creek	Receptor	MW072	0026_MW072_220208	08 Feb 2022	Normal	-	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05	<0.02	<0.02	-	-
Cabbage Tree Creek	Receptor	MW072	0026_MW072_230215	15 Feb 2023	Normal	-	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05	<0.02	<0.02	-	-
Cabbage Tree Creek	Receptor	MW072	0026_MW072_240215	15 Feb 2024	Normal	-	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05	<0.02	<0.02	-	-
Cabbage Tree Creek	Receptor	MW072	0026_MW072_250213	13 Feb 2025	Normal	-	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05	<0.02	<0.02	-	-
Cabbage Tree Creek	Receptor	MW073	0026_MW073_200827	27 Aug 2020	Normal	-	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05	<0.02	<0.02	-	-
Cabbage Tree Creek	Receptor	MW073	0026_MW073_210209	09 Feb 2021	Normal	-	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05	<0.02	<0.02	-	-
Cabbage Tree Creek	Receptor	MW073	0026_MW073_220208	08 Feb 2022	Normal	-	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05	<0.02	<0.02	-	-
Cabbage Tree Creek	Receptor	MW073	0026_QC201_220208	08 Feb 2022	Interlab_D	-	<0.02	<0.02	<0.05	<0.01	<0.01	<0.01	<0.02	<0.5	<0.1	<0.02	-	-
Cabbage Tree Creek	Receptor	MW073	0026_MW073_230215	15 Feb 2023	Normal	-	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05	<0.02	<0.02	-	-
Cabbage Tree Creek	Receptor	MW073	0026_MW073_240215	15 Feb 2024	Normal	-	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05	<0.02	<0.02	-	-
Cabbage Tree Creek	Receptor	MW073	0026_MW073_250213	13 Feb 2025	Normal	-	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05	<0.02	<0.02	-	-
Flat Rock Creek	Receptor	MW004	0026_MW04_161014	14 Oct 2016	Normal	-	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	-
Flat Rock Creek	Receptor	MW004	0026_MW04_161114	15 Nov 2016	Normal	-	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	-	-
Flat Rock Creek	Receptor	MW004	0026_MW04_170522	22 May 2017	Normal	-	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	-
Flat Rock Creek	Receptor	MW004	0026_MW04_170619	19 Jun 2017	Normal	-	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	-
Flat Rock Creek	Receptor	MW004	0026_MW004_200827	27 Aug 2020	Normal	-	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05	<0.02	<0.02	-	-
Flat Rock Creek	Receptor	MW004	0026_QC202_200827	27 Aug 2020	Interlab_D	-	<0.02	<0.02	<0.05	<0.01	<0.01	<0.01	<0.02	<0.5	<0.1	<0.02	-	-
Flat Rock Creek	Receptor	MW004	0026_MW004_210210	10 Feb 2021	Normal	-	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05	<0.02	<0.02	-	-
Flat Rock Creek	Receptor	MW004	0026_QC200_210210	10 Feb 2021	Interlab_D	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.01	<0.05	<0.02
Flat Rock Creek	Receptor	MW004	0026_MW004_230214	14 Feb 2023	Normal	-	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05	<0.02	<0.02	-	-
Flat Rock Creek	Receptor	MW004	0026_MW004_240216	16 Feb 2024	Normal	-	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05	<0.02	<0.02	-	-
Flat Rock Creek	Receptor	MW004	0026_MW004_250213	13 Feb 2025	Normal	-	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05	<0.02	<0.02	-	-
Upper Currumbene Creek	Source	MW005	0026_MW05_161014	14 Oct 2016	Normal	-	0.23	<0.01	<0.01	0.32 ^{#1}	2.0 ^{#1}	<0.01	0.43 ^{#1}	<0.01	<0.01	<0.01	-	-
Upper Currumbene Creek	Source	MW005	0026_MW05_161116	15 Nov 2016	Normal	-	0.24	<0.01	<0.01	0.18 ^{#1}	2.0 ^{#1}	<0.01	0.32 ^{#1}	<0.01	<0.01	<0.01	-	-
Upper Currumbene Creek	Source	MW005	0026_MW05_170523	23 May 2017	Normal	-	0.21	<0.01	<0.01	0.27 ^{#1}	1.8 ^{#1}	<0.01	0.40 ^{#1}	<0.01	<0.01	<0.01	-	-
Upper Currumbene Creek	Source	MW005	0026_MW05_170620	20 Jun 2017	Normal	-	0.21	<0.01	<0.01	0.23 ^{#1}	1.9 ^{#1}	<0.01	0.39 ^{#1}	<0.01	<0.01	<0.01	-	-
Upper Currumbene Creek	Source	MW005	0026_MW05_200227	27 Feb 2020	Normal	-	0.2	<0.02	<0.02	0.14	1.13	<0.02	0.25	<0.05	<0.02	<0.02	-	-
Upper Currumbene Creek	Source	MW005	0026_MW005_200825	25 Aug 2020	Normal	-	0.2	<0.02	<0.02	0.32	2.32	<0.02	0.45	<0.05	<0.02	<0.02	-	-
Upper Currumbene Creek	Source	MW005	0026_MW005_210210	10 Feb 2021	Normal	-	0.2	<0.02	<0.02	0.29	1.94	<0.02	0.39	<0.05	<0.02	<0.02	-	-
Upper Currumbene Creek	Source	MW005	0026_MW005_220210	10 Feb 2022	Normal	-	0.2	<0.02	<0.02	0.28	2.54	<0.02	0.41	<0.05	<0.02	<0.02	-	-
Upper Currumbene Creek	Source	MW005	0026_MW005_230214	14 Feb 2023	Normal	-	0.2	<0.02	<0.02	0.27	1.82	<0.02	0.38	<0.05	<0.02	<0.02	-	-
Upper Currumbene Creek	Source	MW005	0026_MW005_240216	16 Feb 2024	Normal	-	0.2	<0.02	<0.02	0.21	1.64	<0.02	0.35	<0.05	<0.02	<0.02	-	-
Upper Currumbene Creek	Source	MW005	0026_MW005_250212	12 Feb 2025	Normal	-	0.2	<0.02	<0.02	0.19	1.43	<0.02	0.34	<0.05	<0.02	<0.02	-	-
Upper Currumbene Creek	Source	MW029	0026_MW29_161115	15 Nov 2016	Normal	-	0.25	<0.01	<0.01	0.13 ^{#1}	2.5 ^{#1}	<0.01	0.38 ^{#1}	<0.01	<0.01	<0.01	-	-
Upper Currumbene Creek	Source	MW029	0026_MW29_161212	12 Dec 2016	Normal	-	0.09	0.02	<0.01	0.08 ^{#1}	0.26 ^{#1}	0.03	0.08 ^{#1}	<0.01	<0.01	<0.01	-	-
Upper Currumbene Creek	Source	MW029	0026_MW29_170524	24 May 2017	Normal	-	0.25	<0.01	<0.01	0.28 ^{#1}	3.0 ^{#1}	<0.01	0.80 ^{#1}	<0.01	<0.01	<0.01	-	-
Upper Currumbene Creek	Source	MW029	0026_MW29_170620	20 Jun 2017	Normal	-	0.14	<0.01	<0.01	0.14 ^{#1}	1.7 ^{#1}	<0.01	0.43 ^{#1}	<0.01	<0.01	<0.01	-	-
Upper Currumbene Creek	Source	MW029	0026_MW29_200227	27 Feb 2020	Normal	-	0.4	<0.02	<0.02	0.42	4.95	<0.02	1.12	<0.05	<0.02	<0.02	-	-
Upper Currumbene Creek	Source	MW029	0026_QC102_200227	27 Feb 2020	Field_D	-	0.4	<0.02	<0.02	0.41	4.90	<0.02	1.09	<0.05	<0.02	<0.02	-	-
Upper Currumbene Creek	Source	MW029	0026_MW029_200825	25 Aug 2020	Normal	-	0.6	<0.02	<0.02	0.79	8.63	<0.02	1.75	<0.05	<0.02	<0.02	-	-
Upper Currumbene Creek	Source	MW029	0026_QC201_200825	25 Aug 2020	Interlab_D	-	0.48	<0.02	<0.05	0.62	6.0	<0.01	1.1	<0.5	<0.1	<0.02	-	-
Upper Currumbene Creek	Source	MW029	0026_MW029_210208	08 Feb 2021	Normal	-	0.3	<0.02	<0.02	0.80	7.51	<0.02	1.33	<0.05	<0.02	<0.02	-	-
Upper Currumbene Creek	Source	MW029	0026_MW029_220208	08 Feb 2022	Normal	-	0.4	<0.02	<0.02	0.65	8.68	<0.02	1.25	<0.05	<0.02	<0.02	-	-
Upper Currumbene Creek	Source	MW029	0026_MW029_230214	14 Feb 2023	Normal	-	0.3	<0.02	<0.02	0.28	2.99	<0.02	0.70	<0.05	<0.02	<0.02	-	-
Upper Currumbene Creek	Source	MW029	0026_MW029_240215	15 Feb 2024	Normal	-	0.1	<0.02	<0.02	0.11	1.29	<0.02	0.31	<0.05	<0.02	<0.02	-	-



Appendix C
Table C3
Historical Groundwater Analytical Results

	Perfluoronanesulfonic acid (PFNS)	Perfluorobutanoic acid (PFBA)	Perfluorodecanoic acid (PFDA)	Perfluorododecanoic acid (PFDDA)	Perfluoroheptanoic acid (PFHpA)	Perfluorohexanoic acid (PFHxA)	Perfluorononanoic acid (PFNA)	Perfluoropentanoic acid (PFPeA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorotridecanoic acid (PFTriDA)	Perfluoroundecanoic acid (PFUnDA)	Perfluorooctadecanoic acid (PFODA)	Perfluoro-n-hexadecanoic acid (PFHxDA)
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL	0.01	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.05	0.02
ADWG 2011 Health (v4.0 updated June 2025)													
PFAS NEMP 3.0 2025 Freshwater 99%													
PFAS NEMP 3.0 2025 Recreational water quality													

Catchment	SPR	Location	Field ID	Date	Sample Type	Perfluoronanesulfonic acid (PFNS)	Perfluorobutanoic acid (PFBA)	Perfluorodecanoic acid (PFDA)	Perfluorododecanoic acid (PFDDA)	Perfluoroheptanoic acid (PFHpA)	Perfluorohexanoic acid (PFHxA)	Perfluorononanoic acid (PFNA)	Perfluoropentanoic acid (PFPeA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorotridecanoic acid (PFTriDA)	Perfluoroundecanoic acid (PFUnDA)	Perfluorooctadecanoic acid (PFODA)	Perfluoro-n-hexadecanoic acid (PFHxDA)
Upper Currumbene Creek	Source	MW029	0026_MW029_250212	12 Feb 2025	Normal	-	<0.1	<0.02	<0.02	0.09	0.86	<0.02	0.18	<0.05	<0.02	<0.02	-	-
Upper Currumbene Creek	Source	MW104	0026_MW104_250212	12 Feb 2025	Normal	-	1.6	<0.02	<0.02	2.71	14.7	0.02	2.94	<0.05	<0.02	<0.02	-	-
Upper Currumbene Creek	Source	MW104	0026_MW104_250526	26 May 2025	Normal	-	1.4	<0.02	<0.02	3.39	14.5	0.02	2.87	<0.05	<0.02	<0.02	-	-
Upper Currumbene Creek	Source	MW117	0026_MW117_250212	12 Feb 2025	Normal	-	<0.1	<0.02	<0.02	<0.02	0.11	<0.02	<0.02	<0.05	<0.02	<0.02	-	-
Upper Currumbene Creek	Source	MW213	0026_MW213_250213	13 Feb 2025	Normal	-	<0.1	<0.02	<0.02	0.10	0.86	<0.02	0.14	<0.05	<0.02	<0.02	-	-
Upper Currumbene Creek	Source	MW213	0026_QC104_250213	13 Feb 2025	Field_D	-	<0.1	<0.02	<0.02	0.10	0.70	<0.02	0.13	<0.05	<0.02	<0.02	-	-
Upper Currumbene Creek	Source	MW213	0026_QC204_25013	13 Feb 2025	Interlab_D	-	0.07	<0.01	<0.01	0.11	0.83	<0.01	0.13	<0.01	<0.01	<0.01	-	-
Upper Currumbene Creek	Pathway	MW030	0026_MW30_161115	15 Nov 2016	Normal	-	<0.05	<0.01	<0.01	<0.01	0.10 ^{#1}	<0.01	0.02 ^{#1}	<0.01	<0.01	<0.01	-	-
Upper Currumbene Creek	Pathway	MW030	0026_MW30_161212	12 Dec 2016	Normal	-	0.19	<0.01	<0.01	0.23 ^{#1}	1.8 ^{#1}	<0.01	0.25 ^{#1}	<0.01	<0.01	<0.01	-	-
Upper Currumbene Creek	Pathway	MW038	0026_MW38_170523	23 May 2017	Normal	-	<0.05	<0.01	<0.01	<0.01	0.03 ^{#1}	<0.01	0.01 ^{#1}	<0.01	<0.01	<0.01	-	-
Upper Currumbene Creek	Pathway	MW038	0026_MW38_170620	20 Jun 2017	Normal	-	<0.05	<0.01	<0.01	<0.01	0.04 ^{#1}	<0.01	0.02	<0.01	<0.01	<0.01	-	-
Upper Currumbene Creek	Pathway	MW038	0026_MW38_200227	27 Feb 2020	Normal	-	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05	<0.02	<0.02	-	-
Upper Currumbene Creek	Pathway	MW038	0026_MW038_200826	26 Aug 2020	Normal	-	<0.1	<0.02	<0.02	<0.02	0.02	<0.02	<0.02	<0.05	<0.02	<0.02	-	-
Upper Currumbene Creek	Pathway	MW038	0026_MW038_210208	08 Feb 2021	Normal	-	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05	<0.02	<0.02	-	-
Upper Currumbene Creek	Pathway	MW038	0026_MW038_220207	07 Feb 2022	Normal	-	<0.1	<0.02	<0.02	<0.02	0.10	<0.02	0.04	<0.05	<0.02	<0.02	-	-
Upper Currumbene Creek	Pathway	MW038	0026_MW038_230214	14 Feb 2023	Normal	-	<0.1	<0.02	<0.02	<0.02	0.04	<0.02	<0.02	<0.05	<0.02	<0.02	-	-
Upper Currumbene Creek	Pathway	MW038	0026_MW038_240214	14 Feb 2024	Normal	-	<0.1	<0.02	<0.02	<0.02	0.06	<0.02	0.02	<0.05	<0.02	<0.02	-	-
Upper Currumbene Creek	Pathway	MW038	0026_MW038_250212	12 Feb 2025	Normal	-	<0.1	<0.02	<0.02	<0.02	0.08	<0.02	0.04	<0.05	<0.02	<0.02	-	-
Upper Currumbene Creek	Receptor	MW003	0026_MW03_161014	14 Oct 2016	Normal	-	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	-
Upper Currumbene Creek	Receptor	MW003	0026_MW03_161115	15 Nov 2016	Normal	-	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	-
Upper Currumbene Creek	Receptor	MW003	0026_MW03_170523	23 May 2017	Normal	-	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	-
Upper Currumbene Creek	Receptor	MW003	0026_MW03_200227	27 Feb 2020	Normal	-	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05	<0.02	<0.02	-	-
Upper Currumbene Creek	Receptor	MW003	0026_MW003_200825	25 Aug 2020	Normal	-	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05	<0.02	<0.02	-	-
Upper Currumbene Creek	Receptor	MW003	0026_QC101_200825	25 Aug 2020	Field_D	-	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05	<0.02	<0.02	-	-
Upper Currumbene Creek	Receptor	MW003	0026_MW003_210208	08 Feb 2021	Normal	-	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05	<0.02	<0.02	-	-
Upper Currumbene Creek	Receptor	MW003	0026_MW003_220208	08 Feb 2022	Normal	-	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05	<0.02	<0.02	-	-
Upper Currumbene Creek	Receptor	MW003	0026_MW003_230214	14 Feb 2023	Normal	-	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05	<0.02	<0.02	-	-
Upper Currumbene Creek	Receptor	MW003	0026_QC201_230214	14 Feb 2023	Interlab_D	-	<0.02	<0.02	<0.05	<0.01	0.01	<0.01	<0.02	<0.5	<0.1	<0.02	-	-
Upper Currumbene Creek	Receptor	MW003	0026_MW003_240215	15 Feb 2024	Normal	-	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05	<0.02	<0.02	-	-
Upper Currumbene Creek	Receptor	MW003	0026_MW003_250212	12 Feb 2025	Normal	-	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05	<0.02	<0.02	-	-
Upper Currumbene Creek	Receptor	MW026	0026_MW26_161116	16 Nov 2016	Normal	-	0.09	<0.01	<0.01	0.04 ^{#1}	0.69 ^{#1}	<0.01	0.07 ^{#1}	<0.01	<0.01	<0.01	-	-
Upper Currumbene Creek	Receptor	MW026	0026_MW26_161213	13 Dec 2016	Normal	-	0.07	<0.01	<0.01	0.06 ^{#1}	0.66 ^{#1}	<0.01	0.08 ^{#1}	<0.01	<0.01	<0.01	-	-
Upper Currumbene Creek	Receptor	MW026	0026_MW26_170523	23 May 2017	Normal	-	0.06	<0.01	<0.01	0.07 ^{#1}	0.49 ^{#1}	<0.01	0.12 ^{#1}	<0.01	<0.01	<0.01	-	-
Upper Currumbene Creek	Receptor	MW026	0026_MW26_170621	21 Jun 2017	Normal	-	0.06	<0.01	<0.01	0.06 ^{#1}	0.49 ^{#1}	<0.01	0.11 ^{#1}	<0.01	<0.01	<0.01	-	-
Upper Currumbene Creek	Receptor	MW026	0026_MW26_200228	28 Feb 2020	Normal	-	0.4	<0.02	<0.02	0.17	2.16	<0.02	0.56	<0.05	<0.02	<0.02	-	-
Upper Currumbene Creek	Receptor	MW026	0026_MW026_200825	25 Aug 2020	Normal	-	0.2	<0.02	<0.02	0.17	1.74	<0.02	0.40	<0.05	<0.02	<0.02	-	-
Upper Currumbene Creek	Receptor	MW026	0026_MW026_210209	09 Feb 2021	Normal	-	0.1	<0.02	<0.02	0.13	0.90	<0.02	0.22	<0.05	<0.02	<0.02	-	-
Upper Currumbene Creek	Receptor	MW026	0026_MW026_220209	09 Feb 2022	Normal	-	<0.1	<0.02	<0.02	0.08	0.68	<0.02	0.16	<0.05	<0.02	<0.02	-	-
Upper Currumbene Creek	Receptor	MW026	0026_MW026_230216	16 Feb 2023	Normal	-	0.1	<0.02	<0.02	0.08	0.65	<0.02	0.16	<0.05	<0.02	<0.02	-	-
Upper Currumbene Creek	Receptor	MW026	0026_MW026_240215	15 Feb 2024	Normal	-	0.1	<0.02	<0.02	0.12	0.64	<0.02	0.18	<0.05	<0.02	<0.02	-	-
Upper Currumbene Creek	Receptor	MW026	0026_MW026_250213	13 Feb 2025	Normal	-	<0.1	<0.02	<0.02	0.07	0.49	<0.02	0.13	<0.05	<0.02	<0.02	-	-
Yerriyong Gully	Source	MW006	0026_MW06_161014	14 Oct 2016	Normal	-	0.15	<0.01	<0.01	0.13 ^{#1}	1.6 ^{#1}	<0.01	0.21 ^{#1}	<0.01	<0.01	<0.01	-	-
Yerriyong Gully	Source	MW006	0026_MW06_161115	15 Nov 2016	Normal	-	0.18	<0.01	<0.01	0.15 ^{#1}	1.7 ^{#1}	<0.01	0.30 ^{#1}	<0.01	<0.01	<0.01	-	-
Yerriyong Gully	Source	MW006	0026_MW06_170523	23 May 2017	Normal	-	0.16	<0.01	<0.01	0.15 ^{#1}	1.2 ^{#1}	0.01	0.32 ^{#1}	<0.01	<0.01	<0.01	-	-
Yerriyong Gully	Source	MW006	0026_MW06_170620	20 Jun 2017	Normal	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	-
Yerriyong Gully	Source	MW006	0026_MW06_200227	27 Feb 2020	Normal	-	0.1	<0.02	<0.02	0.08	0.83	<0.02	0.23	<0.05	<0.02	<0.02	-	-
Yerriyong Gully	Source	MW006	0026_MW006_200826	26 Aug 2020	Normal	-	0.1	<0.02	<0.02	0.08	0.94	<0.02	0.20	<0.05	<0.02	<0.02	-	-
Yerriyong Gully	Source	MW006	0026_MW006_210208	08 Feb 2021	Normal	-	<0.1	<0.02	<0.02	0.10	0.87	<0.02	0.20	<0.05	<0.02	<0.02	-	-
Yerriyong Gully	Source	MW006	0026_MW006_220209	09 Feb 2022	Normal	-	<0.1	<0.02	<0.02	0.05	0.59	<0.02	0.12	<0.05	<0.02	<0.02	-	-
Yerriyong Gully	Source	MW006	0026_MW006_230213	13 Feb 2023	Normal	-	<0.1	<0.02	<0.02	0.07	0.63	<0.02	0.18	<0.05	<0.02	<0.02	-	-
Yerriyong Gully	Source	MW006	0026_MW006_240214	14 Feb 2024	Normal	-	<0.1	<0.02	<0.02	0.06	0.54	<0.02	0.15	<0.05	<0.02	<0.02	-	-
Yerriyong Gully	Source	MW006	0026_MW006_250212	12 Feb 2025	Normal	-	0.1	<0.02	<0.02	0.10	0.82	<0.02	0.22	<0.05	<0.02	<0.02	-	-
Yerriyong Gully	Source	MW008	0026_MW08_161013	13 Oct 2016	Normal	-	0.22	<0.01	<0.01	0.34 ^{#1}	3.1 ^{#1}	<0.01	0.55 ^{#1}	<0.01	<0.01	<0.01	-	-



Appendix C
Table C3
Historical Groundwater Analytical Results

	Perfluoronanesulfonic acid (PFNS)	Perfluorobutanoic acid (PFBA)	Perfluorodecanoic acid (PFDA)	Perfluorododecanoic acid (PFDoDA)	Perfluoroheptanoic acid (PFHpA)	Perfluorohexanoic acid (PFHxA)	Perfluorononanoic acid (PFNA)	Perfluoropentanoic acid (PFPeA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorotridecanoic acid (PFTriDA)	Perfluoroundecanoic acid (PFUnDA)	Perfluorooctadecanoic acid (PFODA)	Perfluoro-n-hexadecanoic acid (PFHxDA)
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL	0.01	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.05	0.02
ADWG 2011 Health (v4.0 updated June 2025)													
PFAS NEMP 3.0 2025 Freshwater 99%													
PFAS NEMP 3.0 2025 Recreational water quality													

Catchment	SPR	Location	Field ID	Date	Sample Type	Perfluoronanesulfonic acid (PFNS)	Perfluorobutanoic acid (PFBA)	Perfluorodecanoic acid (PFDA)	Perfluorododecanoic acid (PFDoDA)	Perfluoroheptanoic acid (PFHpA)	Perfluorohexanoic acid (PFHxA)	Perfluorononanoic acid (PFNA)	Perfluoropentanoic acid (PFPeA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorotridecanoic acid (PFTriDA)	Perfluoroundecanoic acid (PFUnDA)	Perfluorooctadecanoic acid (PFODA)	Perfluoro-n-hexadecanoic acid (PFHxDA)
Yerriyong Gully	Source	MW008	0026_MW08_161115	15 Nov 2016	Normal	-	0.16	<0.01	<0.01	0.15 ^{#1}	2.2 ^{#1}	<0.01	0.27 ^{#1}	<0.01	<0.01	<0.01	-	-
Yerriyong Gully	Source	MW008	0026_MW08_170523	23 May 2017	Normal	-	0.14	<0.01	<0.01	0.23 ^{#1}	2.2 ^{#1}	<0.01	0.40 ^{#1}	<0.01	<0.01	<0.01	-	-
Yerriyong Gully	Source	MW008	0026_MW08_170620	20 Jun 2017	Normal	-	0.13	<0.01	<0.01	0.20 ^{#1}	2.3 ^{#1}	<0.01	0.36 ^{#1}	<0.01	<0.01	<0.01	-	-
Yerriyong Gully	Source	MW008	0026_MW08_200227	27 Feb 2020	Normal	-	0.1	<0.02	<0.02	0.27	2.85	<0.02	0.44	<0.05	<0.02	<0.02	-	-
Yerriyong Gully	Source	MW008	0026_MW08_200825	25 Aug 2020	Normal	-	0.2	<0.02	<0.02	0.56	5.34	<0.02	0.77	<0.05	<0.02	<0.02	-	-
Yerriyong Gully	Source	MW008	0026_MW08_210211	11 Feb 2021	Normal	-	<0.1	<0.02	<0.02	0.35	3.02	<0.02	0.42	<0.05	<0.02	<0.02	-	-
Yerriyong Gully	Source	MW008	0026_MW08_220210	10 Feb 2022	Normal	-	0.2	<0.02	<0.02	0.57	6.64	<0.02	0.74	<0.05	<0.02	<0.02	-	-
Yerriyong Gully	Source	MW008	0026_MW08_230213	13 Feb 2023	Normal	-	0.1	<0.02	<0.02	0.33	2.74	<0.02	0.36	<0.05	<0.02	<0.02	-	-
Yerriyong Gully	Source	MW008	0026_MW08_240214	14 Feb 2024	Normal	-	<0.1	<0.02	<0.02	0.08	0.66	<0.02	0.09	<0.05	<0.02	<0.02	-	-
Yerriyong Gully	Source	MW008	0026_MW08_250212	12 Feb 2025	Normal	-	<0.1	<0.02	<0.02	0.19	1.45	<0.02	0.22	<0.05	<0.02	<0.02	-	-
Yerriyong Gully	Source	MW008	0026_QC101_250212	12 Feb 2025	Field_D	-	0.1	<0.02	<0.02	0.32	2.33	<0.02	0.33	<0.05	<0.02	<0.02	-	-
Yerriyong Gully	Source	MW008	0026_QC201_25012	12 Feb 2025	Interlab_D	-	0.10	<0.01	<0.01	0.32	2.4	<0.01	0.31	<0.01	<0.01	<0.01	-	-
Yerriyong Gully	Source	MW009	0026_MW09_161013	13 Oct 2016	Normal	-	<0.05	<0.01	<0.01	0.03 ^{#1}	0.16 ^{#1}	<0.01	0.04 ^{#1}	<0.01	<0.01	<0.01	-	-
Yerriyong Gully	Source	MW009	0026_MW09_161115	15 Nov 2016	Normal	-	<0.05	<0.01	<0.01	0.02 ^{#1}	0.08 ^{#1}	<0.01	0.01 ^{#1}	<0.01	<0.01	<0.01	-	-
Yerriyong Gully	Source	MW009	0026_MW09_170523	23 May 2017	Normal	-	<0.05	<0.01	<0.01	0.02 ^{#1}	0.07 ^{#1}	<0.01	0.01 ^{#1}	<0.01	<0.01	<0.01	-	-
Yerriyong Gully	Source	MW009	0026_MW09_170620	20 Jun 2017	Normal	-	0.06	<0.01	<0.01	0.05 ^{#1}	0.39 ^{#1}	<0.01	0.08 ^{#1}	<0.01	<0.01	<0.01	-	-
Yerriyong Gully	Source	MW009	0026_MW09_200227	27 Feb 2020	Normal	-	1.7	<0.02	<0.02	1.65	15.0	0.04	2.67	<0.05	<0.02	<0.02	-	-
Yerriyong Gully	Source	MW009	0026_MW09_200826	26 Aug 2020	Normal	-	2.9	<0.02	<0.02	3.09	29.1	0.06	5.18	<0.05	<0.02	<0.02	-	-
Yerriyong Gully	Source	MW009	0026_QC102_200826	26 Aug 2020	Field_D	-	2.8	<0.02	<0.02	3.10	26.6	0.06	4.76	<0.05	<0.02	<0.02	-	-
Yerriyong Gully	Source	MW009	0026_FFTA_MW09_080920	08 Sep 2020	Normal	<0.01	0.58	<0.01	<0.01	0.41 ^{#1}	3.4	0.01	0.64	<0.01	<0.01	<0.01	-	-
Yerriyong Gully	Source	MW009	0026_QC111_080920	08 Sep 2020	Field_D	<0.01	0.44	<0.01	<0.01	0.31	2.6	<0.01	0.31	<0.01	<0.01	<0.01	-	-
Yerriyong Gully	Source	MW009	0026_QC210_080920	08 Sep 2020	Field_D	<0.01	0.20	<0.01	<0.01	0.15 ^{#1}	1.4 ^{#1}	<0.01	0.25	<0.01	<0.01	<0.01	-	-
Yerriyong Gully	Source	MW009	0026_FFTA_MW09_041120	04 Nov 2020	Normal	<0.01	0.11	<0.01	<0.01	0.08 ^{#1}	0.53	<0.01	0.11	<0.01	<0.01	<0.01	-	-
Yerriyong Gully	Source	MW009	0026_MW009_210211	11 Feb 2021	Normal	-	2.0	0.05	<0.02	1.87	15.4	0.11	3.12	<0.05	<0.02	0.02	-	-
Yerriyong Gully	Source	MW009	0026_MW009_220210	10 Feb 2022	Normal	-	0.2	<0.02	<0.02	0.09	0.74	<0.02	0.18	<0.05	<0.02	<0.02	-	-
Yerriyong Gully	Source	MW009	0026_MW009_230213	13 Feb 2023	Normal	-	1.1	<0.02	<0.02	2.07	11.7	<0.02	1.78	<0.05	<0.02	<0.02	-	-
Yerriyong Gully	Source	MW009	0026_MW009_240214	14 Feb 2024	Normal	-	0.7	<0.02	<0.02	0.71	4.35	0.03	0.99	<0.05	<0.02	<0.02	-	-
Yerriyong Gully	Source	MW009	0026_MW009_250212	12 Feb 2025	Normal	-	3.4	<0.02	<0.02	4.16	23.1	0.11	4.66	<0.05	<0.02	<0.02	-	-
Yerriyong Gully	Source	MW015	0026_MW15_161013	13 Oct 2016	Normal	-	<0.05	<0.01	<0.01	<0.01	0.02 ^{#1}	<0.01	<0.01	<0.01	<0.01	<0.01	-	-
Yerriyong Gully	Source	MW015	0026_MW15_161116	15 Nov 2016	Normal	-	<0.05	<0.01	<0.01	<0.01	0.02 ^{#1}	<0.01	<0.01	<0.01	<0.01	<0.01	-	-
Yerriyong Gully	Source	MW015	0026_MW15_170523	23 May 2017	Normal	-	<0.05	<0.01	<0.01	0.01 ^{#1}	0.08 ^{#1}	<0.01	0.02 ^{#1}	<0.01	<0.01	<0.01	-	-
Yerriyong Gully	Source	MW015	0026_MW15_170620	20 Jun 2017	Normal	-	0.10	<0.01	<0.01	0.25 ^{#1}	1.8 ^{#1}	<0.01	0.23 ^{#1}	<0.01	<0.01	<0.01	-	-
Yerriyong Gully	Source	MW015	0026_MW15_200227	27 Feb 2020	Normal	-	0.4	<0.02	<0.02	0.21	2.09	<0.02	0.49	<0.05	<0.02	<0.02	-	-
Yerriyong Gully	Source	MW015	0026_MW015_200826	26 Aug 2020	Normal	-	<0.1	<0.02	<0.02	0.05	0.43	<0.02	0.05	<0.05	<0.02	<0.02	-	-
Yerriyong Gully	Source	MW015	0026_MW015_210211	11 Feb 2021	Normal	-	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05	<0.02	<0.02	-	-
Yerriyong Gully	Source	MW015	0026_MW015_220207	07 Feb 2022	Normal	-	<0.1	<0.02	<0.02	0.03	0.23	<0.02	0.06	<0.05	<0.02	<0.02	-	-
Yerriyong Gully	Source	MW015	0026_MW015_230213	13 Feb 2023	Normal	-	<0.1	<0.02	<0.02	0.05	0.33	<0.02	0.06	<0.05	<0.02	<0.02	-	-
Yerriyong Gully	Source	MW015	0026_MW015_240214	14 Feb 2024	Normal	-	<0.1	<0.02	<0.02	0.09	0.62	<0.02	0.08	<0.05	<0.02	<0.02	-	-
Yerriyong Gully	Source	MW015	0026_MW015_250212	12 Feb 2025	Normal	-	0.2	<0.02	<0.02	0.31	2.12	<0.02	0.36	<0.05	<0.02	<0.02	-	-
Yerriyong Gully	Source	MW016	0026_MW16_161013	13 Oct 2016	Normal	-	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	-
Yerriyong Gully	Source	MW016	0026_MW16_161116	15 Nov 2016	Normal	-	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	-
Yerriyong Gully	Source	MW016	0026_MW16_170523	23 May 2017	Normal	-	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	-
Yerriyong Gully	Source	MW016	0026_MW16_170620	20 Jun 2017	Normal	-	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01 ^{#1}	<0.01	<0.01	<0.01	-	-
Yerriyong Gully	Source	MW016	0026_MW16_200227	27 Feb 2020	Normal	-	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05	<0.02	<0.02	-	-
Yerriyong Gully	Source	MW016	0026_QC202_200227	27 Feb 2020	Interlab_D	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.01	<0.05	<0.02
Yerriyong Gully	Source	MW016	0026_MW016_200826	26 Aug 2020	Normal	-	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05	<0.02	<0.02	-	-
Yerriyong Gully	Source	MW016	0026_MW016_210211	11 Feb 2021	Normal	-	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05	<0.02	<0.02	-	-
Yerriyong Gully	Source	MW016	0026_MW016_220207	07 Feb 2022	Normal	-	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05	<0.02	<0.02	-	-
Yerriyong Gully	Source	MW016	0026_QC200_220207	07 Feb 2022	Interlab_D	-	<0.02	<0.02	<0.05	<0.01	<0.01	<0.01	<0.02	<0.5	<0.1	<0.02	-	-
Yerriyong Gully	Source	MW016	0026_MW016_230213	13 Feb 2023	Normal	-	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05	<0.02	<0.02	-	-
Yerriyong Gully	Source	MW016	0026_QC101_230213	13 Feb 2023	Field_D	-	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05	<0.02	<0.02	-	-
Yerriyong Gully	Source	MW016	0026_MW016_240214	14 Feb 2024	Normal	-	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05	<0.02	<0.02	-	-
Yerriyong Gully	Source	MW016	0026_MW016_250212	12 Feb 2025	Normal	-	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05	<0.02	<0.02	-	-



Appendix C
Table C3
Historical Groundwater Analytical Results

	Perfluoronanesulfonic acid (PFNS)	Perfluorobutanoic acid (PFBA)	Perfluorodecanoic acid (PFDA)	Perfluorododecanoic acid (PFDoDA)	Perfluoroheptanoic acid (PFHpA)	Perfluorohexanoic acid (PFHxA)	Perfluorononanoic acid (PFNA)	Perfluoropentanoic acid (PFPeA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorotridecanoic acid (PFTriDA)	Perfluoroundecanoic acid (PFUnDA)	Perfluorooctadecanoic acid (PFODA)	Perfluoro-n-hexadecanoic acid (PFHxDA)
EQL	0.01	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.05	0.02
ADWG 2011 Health (v4.0 updated June 2025)													
PFAS NEMP 3.0 2025 Freshwater 99%													
PFAS NEMP 3.0 2025 Recreational water quality													

Catchment	SPR	Location	Field ID	Date	Sample Type	Perfluoronanesulfonic acid (PFNS)	Perfluorobutanoic acid (PFBA)	Perfluorodecanoic acid (PFDA)	Perfluorododecanoic acid (PFDoDA)	Perfluoroheptanoic acid (PFHpA)	Perfluorohexanoic acid (PFHxA)	Perfluorononanoic acid (PFNA)	Perfluoropentanoic acid (PFPeA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorotridecanoic acid (PFTriDA)	Perfluoroundecanoic acid (PFUnDA)	Perfluorooctadecanoic acid (PFODA)	Perfluoro-n-hexadecanoic acid (PFHxDA)
Yerriyong Gully	Source	MW017	0026_MW17_161013	13 Oct 2016	Normal	-	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	-
Yerriyong Gully	Source	MW017	0026_MW17_161116	15 Nov 2016	Normal	-	<0.05	<0.01	<0.01	<0.01	0.07 ^{#1}	<0.01	0.01 ^{#1}	<0.01	<0.01	<0.01	-	-
Yerriyong Gully	Source	MW017	0026_MW17_170523	23 May 2017	Normal	-	<0.05	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	-	-
Yerriyong Gully	Source	MW017	0026_MW17_170620	20 Jun 2017	Normal	-	<0.05	<0.01	<0.01	<0.01	0.02 ^{#1}	<0.01	<0.01	<0.01	<0.01	<0.01	-	-
Yerriyong Gully	Source	MW017	0026_MW17_200227	27 Feb 2020	Normal	-	<0.1	<0.02	<0.02	<0.02	0.10	<0.02	0.02	<0.05	<0.02	<0.02	-	-
Yerriyong Gully	Source	MW017	0026_MW017_200826	26 Aug 2020	Normal	-	0.4	<0.02	<0.02	0.39	3.24	<0.02	0.69	<0.05	<0.02	<0.02	-	-
Yerriyong Gully	Source	MW017	0026_MW017_210211	11 Feb 2021	Normal	-	0.1	<0.02	<0.02	0.23	1.19	<0.02	0.21	<0.05	<0.02	<0.02	-	-
Yerriyong Gully	Source	MW017	0026_QC102_210211	11 Feb 2021	Field_D	-	0.1	<0.02	<0.02	0.23	1.25	<0.02	0.21	<0.05	<0.02	<0.02	-	-
Yerriyong Gully	Source	MW017	0026_MW017_220207	07 Feb 2022	Normal	-	0.2	<0.02	<0.02	0.17	1.50	<0.02	0.28	<0.05	<0.02	<0.02	-	-
Yerriyong Gully	Source	MW017	0026_MW017_230213	13 Feb 2023	Normal	-	<0.1	<0.02	<0.02	0.03	0.23	<0.02	0.06	<0.05	<0.02	<0.02	-	-
Yerriyong Gully	Source	MW017	0026_QC100_230213	13 Feb 2023	Field_D	-	0.1	<0.02	<0.02	0.08	0.48	<0.02	0.15	<0.05	<0.02	<0.02	-	-
Yerriyong Gully	Source	MW017	0026_MW017_240214	14 Feb 2024	Normal	-	0.4	<0.02	<0.02	0.41	2.84	<0.02	0.58	<0.05	<0.02	<0.02	-	-
Yerriyong Gully	Source	MW017	0026_QC101_240214	14 Feb 2024	Field_D	-	0.3	<0.02	<0.02	0.37	2.63	<0.02	0.56	<0.05	<0.02	<0.02	-	-
Yerriyong Gully	Source	MW017	0026_QC201_240214	14 Feb 2024	Interlab_D	-	0.33	<0.02	<0.05	0.35	2.3	<0.01	0.48	<0.5	<0.1	<0.02	-	-
Yerriyong Gully	Source	MW017	0026_MW017_250212	12 Feb 2025	Normal	-	0.4	<0.02	<0.02	0.38	2.37	<0.02	0.52	<0.05	<0.02	<0.02	-	-
Yerriyong Gully	Source	MW045	0026_MW45_170522	22 May 2017	Normal	-	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	-
Yerriyong Gully	Source	MW045	0026_MW45_170619	19 Jun 2017	Normal	-	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	-
Yerriyong Gully	Source	MW045	0026_MW45_200227	27 Feb 2020	Normal	-	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05	<0.02	<0.02	-	-
Yerriyong Gully	Source	MW045	0026_MW045_200826	26 Aug 2020	Normal	-	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05	<0.02	<0.02	-	-
Yerriyong Gully	Source	MW045	0026_MW045_210211	11 Feb 2021	Normal	-	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05	<0.02	<0.02	-	-
Yerriyong Gully	Source	MW045	0026_QC202_210211	11 Feb 2021	Interlab_D	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.01	<0.05	<0.02
Yerriyong Gully	Source	MW045	0026_MW045_220207	07 Feb 2022	Normal	-	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05	<0.02	<0.02	-	-
Yerriyong Gully	Source	MW045	0026_MW045_230213	13 Feb 2023	Normal	-	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05	<0.02	<0.02	-	-
Yerriyong Gully	Source	MW045	0026_MW045_240214	14 Feb 2024	Normal	-	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05	<0.02	<0.02	-	-
Yerriyong Gully	Source	MW045	0026_MW045_250212	12 Feb 2025	Normal	-	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05	<0.02	<0.02	-	-
Yerriyong Gully	Source	MW046	0026_MW46_170522	22 May 2017	Normal	-	<0.05	<0.01	<0.01	<0.01	0.09 ^{#1}	<0.01	0.01 ^{#1}	<0.01	<0.01	<0.01	-	-
Yerriyong Gully	Source	MW046	0026_MW46_170619	19 Jun 2017	Normal	-	<0.05	<0.01	<0.01	<0.01	0.06	<0.01	0.01	<0.01	<0.01	<0.01	-	-
Yerriyong Gully	Source	MW046	0026_MW046_200826	26 Aug 2020	Normal	-	<0.1	<0.02	<0.02	<0.02	0.05	<0.02	<0.02	<0.05	<0.02	<0.02	-	-
Yerriyong Gully	Source	MW046	0026_MW046_210211	11 Feb 2021	Normal	-	<0.1	<0.02	<0.02	<0.02	0.04	<0.02	<0.02	<0.05	<0.02	<0.02	-	-
Yerriyong Gully	Source	MW046	0026_MW046_220207	07 Feb 2022	Normal	-	<0.1	<0.02	<0.02	<0.02	0.08	<0.02	<0.02	<0.05	<0.02	<0.02	-	-
Yerriyong Gully	Source	MW046	0026_MW046_230213	13 Feb 2023	Normal	-	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05	<0.02	<0.02	-	-
Yerriyong Gully	Pathway	MW039	0026_MW39_170523	23 May 2017	Normal	-	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	-
Yerriyong Gully	Pathway	MW039	0026_MW39_170621	21 Jun 2017	Normal	-	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	-
Yerriyong Gully	Pathway	MW039	0026_MW39_200228	28 Feb 2020	Normal	-	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05	<0.02	<0.02	-	-
Yerriyong Gully	Pathway	MW039	0026_MW039_200825	25 Aug 2020	Normal	-	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05	<0.02	<0.02	-	-
Yerriyong Gully	Pathway	MW039	0026_MW039_210209	09 Feb 2021	Normal	-	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05	<0.02	<0.02	-	-
Yerriyong Gully	Pathway	MW039	0026_MW039_220210	10 Feb 2022	Normal	-	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05	<0.02	<0.02	-	-
Yerriyong Gully	Pathway	MW039	0026_MW039_230215	15 Feb 2023	Normal	-	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05	<0.02	<0.02	-	-
Yerriyong Gully	Pathway	MW039	0026_MW039_240216	16 Feb 2024	Normal	-	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05	<0.02	<0.02	-	-
Yerriyong Gully	Pathway	MW039	0026_MW039_250211	11 Feb 2025	Normal	-	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05	<0.02	<0.02	-	-
Yerriyong Gully perched	Source	MW009P	0026_MW09_P_161013	13 Oct 2016	Normal	-	<7.5	<1.5	<1.5	6.0 ^{#1}	31 ^{#1}	<1.5	8.1 ^{#1}	<1.5	<1.5	<1.5	-	-
Yerriyong Gully perched	Source	MW009P	0026_MW09_P_161115	15 Nov 2016	Normal	-	5.5	0.48	<0.01	6.6 ^{#1}	46 ^{#1}	0.91	8.8 ^{#1}	0.03	0.02	0.02	-	-
Yerriyong Gully perched	Source	MW009P	0026_QC151_161115	15 Nov 2016	Field_D	-	5.3	<0.3	<0.3	6.5 ^{#1}	44 ^{#1}	0.93	8.9 ^{#1}	<0.3	<0.3	<0.3	-	-
Yerriyong Gully perched	Source	MW009P	0026_QC151_161115	15 Nov 2016	Field_D	-	5.6	<0.3	<0.3	6.7 ^{#1}	46 ^{#1}	0.98	9.1 ^{#1}	<0.3	<0.3	<0.3	-	-
Yerriyong Gully perched	Source	MW009P	0026_MW09_P_170523	23 May 2017	Normal	-	6.2	0.43	<0.01	8.4 ^{#1}	49 ^{#1}	1.1	12 ^{#1}	<0.01	<0.01	<0.01	-	-
Yerriyong Gully perched	Source	MW009P	0026_MW09_P_170620	20 Jun 2017	Normal	-	4.7	<2	<2	6.1 ^{#1}	40 ^{#1}	<2	10 ^{#1}	<2	<2	<2	-	-
Yerriyong Gully perched	Source	MW009P	0026_MW09_P_200227	27 Feb 2020	Normal	-	4.2	0.36	<0.02	4.78	34.9	0.76	7.23	<0.05	<0.02	0.03	-	-
Yerriyong Gully perched	Source	MW009P	0026_MW009_P_200826	26 Aug 2020	Normal	-	8.2	0.74	<0.02	12.5	83.8	2.21	18.1	<0.05	<0.02	0.02	-	-
Yerriyong Gully perched	Source	MW009P	0026_FFTA_MW09S_0809	08 Sep 2020	Normal	1.5 ^{#1}	7.6	0.35	<0.01	9.3 ^{#1}	23	1.6	12	<0.01	<0.01	<0.01	-	-
Yerriyong Gully perched	Source	MW009P	0026_FFTA_MW09s_0411	04 Nov 2020	Normal	0.97	6.4	0.58	0.19	7.6 ^{#1}	45	1.5	9.8	0.19	<0.01	0.21	-	-
Yerriyong Gully perched	Source	MW009P	0026_MW009_P_210211	11 Feb 2021	Normal	-	4.5	0.61	<0.02	7.69	54.4	1.69	11.4	<0.05	<0.02	0.03	-	-
Yerriyong Gully perched	Source	MW009P	0026_MW009P_220207	07 Feb 2022	Normal	-	3.6	0.79	<0.02	5.64	43.2	1.14	6.97	<0.05	<0.02	0.03	-	-
Yerriyong Gully perched	Source	MW009P	0026_MW009P_230213	13 Feb 2023	Normal	-	1.8	0.66	0.21	2.08	13.6	0.52	2.75	0.05	0.05	0.20	-	-



Appendix C
Table C3
Historical Groundwater Analytical Results

	Perfluorononanesulfonic acid (PFNS)	Perfluorobutanoic acid (PFBA)	Perfluorodecanoic acid (PFDA)	Perfluorododecanoic acid (PFDoDA)	Perfluoroheptanoic acid (PFHpA)	Perfluorohexanoic acid (PFHxA)	Perfluorononanoic acid (PFNA)	Perfluoropentanoic acid (PFPeA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorotridecanoic acid (PFTriDA)	Perfluoroundecanoic acid (PFUnDA)	Perfluorooctadecanoic acid (PFODA)	Perfluoro-n-hexadecanoic acid (PFHxDA)
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL	0.01	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.05	0.02
ADWG 2011 Health (v4.0 updated June 2025)													
PFAS NEMP 3.0 2025 Freshwater 99%													
PFAS NEMP 3.0 2025 Recreational water quality													

Catchment	SPR	Location	Field ID	Date	Sample Type													
Yerriyong Gully perched	Source	MW009P	0026_MW009P_240214	14 Feb 2024	Normal	-	2.1	0.30	<0.02	2.55	14.2	0.45	3.98	<0.05	<0.02	0.06	-	-
Yerriyong Gully perched	Source	MW009P	0026_MW009P_250212	12 Feb 2025	Normal	-	3.5	0.44	<0.02	4.11	27.4	0.53	5.31	<0.05	<0.02	0.07	-	-

Statistics																	
Number of Results	10	322	322	322	322	322	322	322	322	322	322	322	322	322	322	4	4
Number of Detects	2	100	13	2	124	176	24	140	3	2	10	0	0				
Minimum Concentration	<0.01	<0.02	<0.01	<0.01	0.01	0.01	0.01	0.01	<0.01	<0.01	<0.01	<0.05	<0.02				
Minimum Detect	0.97	0.03	0.02	0.19	0.01	0.01	0.01	0.01	0.03	0.02	0.02	ND	ND				
Maximum Concentration	1.5	8.2	<2	<2	12.5	83.8	2.21	18.1	<2	<2	<2	<0.05	<0.02				
Maximum Detect	1.5	8.2	0.79	0.21	12.5	83.8	2.21	18.1	0.19	0.05	0.21	ND	ND				
Average Concentration *	0.25	0.37	0.033	0.017	0.45	3	0.059	0.63	0.033	0.017	0.017	0.025	0.01				
Geometric Average *	0.015	0.077	0.0098	0.0089	0.031	0.089	0.01	0.041	0.017	0.009	0.0088	0.025	0.01				
Median Concentration *	0.005	0.05	0.01	0.01	0.01	0.02	0.01	0.01	0.025	0.01	0.01	0.025	0.01				
Standard Deviation *	0.53	1.1	0.12	0.071	1.5	9.5	0.25	2.1	0.081	0.07	0.072	0	0				
Geometric Standard Deviation *	10	3.9	2.5	1.9	7.7	17	3.1	8.8	2.7	1.9	1.9	1	1				
95% UCL (Student's-t) *	0.56	0.47	0.0436	0.0232	0.585	3.856	0.082	0.827	0.0408	0.023	0.0234	0.025	0.01				
Number of Env Standard Exceedances	0	0	0	0	0	0	0	0	0	0	0	0	0				
Number of Env Standard Exceedances (Detects Only)	0	0	0	0	0	0	0	0	0	0	0	0	0				
% of Detects	20	31	4	1	39	55	7	43	1	1	3	0	0				
% of Non-Detects	80	69	96	99	61	45	93	57	99	99	97	100	100				
% of Detects at or above Env Standards	0	0	0	0	0	0	0	0	0	0	0	0	0				
% of Results Below Env Standards or Non-Detect	100	100	100	100	100	100	100	100	100	100	100	100	100				

* A Non Detect Multiplier of 0.5 has been applied.

Comments

#1 Quantification of linear and branched isomers has been conducted as a single total response using the relative response factor for the corresponding linear/branched standard.

Environmental Standards

NHMRC, June 2025, ADWG 2011 Health (v4.0 updated June 2025)
HEPA, March 2025, PFAS NEMP 3.0 2025 Freshwater 99%
HEPA, March 2025, PFAS NEMP 3.0 2025 Recreational water quality



Appendix C
Table C3
Historical Groundwater Analytical Results

	PFAS - Perfluoroalkyl Sulfonamide							PFAS - Fluorotelomer Sulfonic Acids					PFAS					
	N-Ethyl perfluorooctane sulfonamide (EFOSA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EFOSAA)	N-Ethyl perfluorooctane sulfonamidoethanol (EFOSE)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Methyl perfluorooctane sulfonamidoethanol (MEFOSE)	Perfluorooctane sulfonamide (PFOSA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FTS)	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	FOUEA (2H-Perfluoro-2-decenoic acid (8:2))	8:2 Polyfluoroalkyl phosphate diester (8:2 diPAP)					
EQL	0.02	0.01	0.05	0.02	0.01	0.05	0.01	0.01	0.01	0.01	0.01	0.01	0.02					
ADWG 2011 Health (v4.0 updated June 2025)																		
PFAS NEMP 3.0 2025 Freshwater 99%																		
PFAS NEMP 3.0 2025 Recreational water quality																		
Catchment	SPR	Location	Field ID	Date	Sample Type													
Upper Currumbene Creek	Source	MW029	0026_MW029_250212	12 Feb 2025	Normal	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	-	-
Upper Currumbene Creek	Source	MW104	0026_MW104_250212	12 Feb 2025	Normal	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	-	-
Upper Currumbene Creek	Source	MW104	0026_MW104_250526	26 May 2025	Normal	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	-	-
Upper Currumbene Creek	Source	MW117	0026_MW117_250212	12 Feb 2025	Normal	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	-	-
Upper Currumbene Creek	Source	MW213	0026_MW213_250213	13 Feb 2025	Normal	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	-	-
Upper Currumbene Creek	Source	MW213	0026_QC104_250213	13 Feb 2025	Field_D	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	-	-
Upper Currumbene Creek	Source	MW213	0026_QC204_25013	13 Feb 2025	Interlab_D	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	-	-
Upper Currumbene Creek	Pathway	MW030	0026_MW30_161115	15 Nov 2016	Normal	<0.05	-	-	<0.05	-	-	<0.05	<0.01	<0.05	<0.01	-	-	-
Upper Currumbene Creek	Pathway	MW030	0026_MW30_161212	12 Dec 2016	Normal	-	<0.05	-	-	<0.05	-	<0.05	<0.01	<0.05	<0.01	-	-	-
Upper Currumbene Creek	Pathway	MW038	0026_MW38_170523	23 May 2017	Normal	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	-	-
Upper Currumbene Creek	Pathway	MW038	0026_MW38_170620	20 Jun 2017	Normal	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	-	-
Upper Currumbene Creek	Pathway	MW038	0026_MW38_200227	27 Feb 2020	Normal	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	-	-
Upper Currumbene Creek	Pathway	MW038	0026_MW038_200826	26 Aug 2020	Normal	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	-	-
Upper Currumbene Creek	Pathway	MW038	0026_MW038_210208	08 Feb 2021	Normal	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	-	-
Upper Currumbene Creek	Pathway	MW038	0026_MW038_220207	07 Feb 2022	Normal	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	-	-
Upper Currumbene Creek	Pathway	MW038	0026_MW038_230214	14 Feb 2023	Normal	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	-	-
Upper Currumbene Creek	Pathway	MW038	0026_MW038_240214	14 Feb 2024	Normal	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	-	-
Upper Currumbene Creek	Pathway	MW038	0026_MW038_250212	12 Feb 2025	Normal	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	-	-
Upper Currumbene Creek	Receptor	MW003	0026_MW03_161014	14 Oct 2016	Normal	<0.05	-	-	<0.05	-	-	<0.05	<0.01	<0.05	<0.01	-	-	-
Upper Currumbene Creek	Receptor	MW003	0026_MW03_161115	15 Nov 2016	Normal	<0.05	-	-	<0.05	-	-	<0.05	<0.01	<0.05	<0.01	-	-	-
Upper Currumbene Creek	Receptor	MW003	0026_MW03_170523	23 May 2017	Normal	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	-	-
Upper Currumbene Creek	Receptor	MW003	0026_MW03_200227	27 Feb 2020	Normal	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	-	-
Upper Currumbene Creek	Receptor	MW003	0026_MW003_200825	25 Aug 2020	Normal	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	-	-
Upper Currumbene Creek	Receptor	MW003	0026_QC101_200825	25 Aug 2020	Field_D	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	-	-
Upper Currumbene Creek	Receptor	MW003	0026_MW003_210208	08 Feb 2021	Normal	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	-	-
Upper Currumbene Creek	Receptor	MW003	0026_MW003_220208	08 Feb 2022	Normal	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	-	-
Upper Currumbene Creek	Receptor	MW003	0026_MW003_230214	14 Feb 2023	Normal	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	-	-
Upper Currumbene Creek	Receptor	MW003	0026_QC201_230214	14 Feb 2023	Interlab_D	<0.1	<0.02	<0.5	<0.05	<0.02	<0.05	<0.1	<0.01	0.04	<0.02	<0.02	-	-
Upper Currumbene Creek	Receptor	MW003	0026_MW003_240215	15 Feb 2024	Normal	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	-	-
Upper Currumbene Creek	Receptor	MW003	0026_MW003_250212	12 Feb 2025	Normal	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	-	-
Upper Currumbene Creek	Receptor	MW026	0026_MW26_161116	16 Nov 2016	Normal	<0.05	-	-	<0.05	-	-	<0.05	<0.01	<0.05	<0.01	-	-	-
Upper Currumbene Creek	Receptor	MW026	0026_MW26_161213	13 Dec 2016	Normal	<0.05	-	-	<0.05	-	-	<0.05	<0.01	<0.05	<0.01	-	-	-
Upper Currumbene Creek	Receptor	MW026	0026_MW26_170523	23 May 2017	Normal	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	-	-
Upper Currumbene Creek	Receptor	MW026	0026_MW26_170621	21 Jun 2017	Normal	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	-	-
Upper Currumbene Creek	Receptor	MW026	0026_MW26_200228	28 Feb 2020	Normal	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	-	-
Upper Currumbene Creek	Receptor	MW026	0026_MW026_200825	25 Aug 2020	Normal	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	-	-
Upper Currumbene Creek	Receptor	MW026	0026_MW026_210209	09 Feb 2021	Normal	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	-	-
Upper Currumbene Creek	Receptor	MW026	0026_MW026_220209	09 Feb 2022	Normal	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	-	-
Upper Currumbene Creek	Receptor	MW026	0026_MW026_230216	16 Feb 2023	Normal	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	-	-
Upper Currumbene Creek	Receptor	MW026	0026_MW026_240215	15 Feb 2024	Normal	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	-	-
Upper Currumbene Creek	Receptor	MW026	0026_MW026_250213	13 Feb 2025	Normal	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	-	-
Yerriyong Gully	Source	MW006	0026_MW06_161014	14 Oct 2016	Normal	<0.05	-	-	<0.05	-	-	<0.05	<0.01	<0.05	<0.01	-	-	-
Yerriyong Gully	Source	MW006	0026_MW06_161115	15 Nov 2016	Normal	<0.05	-	-	<0.05	-	-	<0.05	<0.01	<0.05	<0.01	-	-	-
Yerriyong Gully	Source	MW006	0026_MW06_170523	23 May 2017	Normal	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	-	-
Yerriyong Gully	Source	MW006	0026_MW06_170620	20 Jun 2017	Normal	<0.2	<0.2	<0.2 ^{PF}	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	-
Yerriyong Gully	Source	MW006	0026_MW06_200227	27 Feb 2020	Normal	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.03	<0.05	<0.05	<0.05	<0.05	-	-
Yerriyong Gully	Source	MW006	0026_MW006_200826	26 Aug 2020	Normal	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.03	<0.05	<0.05	<0.05	<0.05	-	-
Yerriyong Gully	Source	MW006	0026_MW006_210208	08 Feb 2021	Normal	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	-	-
Yerriyong Gully	Source	MW006	0026_MW006_220209	09 Feb 2022	Normal	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	-	-
Yerriyong Gully	Source	MW006	0026_MW006_230213	13 Feb 2023	Normal	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	-	-
Yerriyong Gully	Source	MW006	0026_MW006_240214	14 Feb 2024	Normal	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	-	-
Yerriyong Gully	Source	MW006	0026_MW006_250212	12 Feb 2025	Normal	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.02	<0.05	<0.05	<0.05	<0.05	-	-
Yerriyong Gully	Source	MW008	0026_MW08_161013	13 Oct 2016	Normal	<0.05	-	-	<0.05	-	-	<0.05	<0.01	<0.05	<0.01	-	-	-



Appendix C
Table C3
Historical Groundwater Analytical Results

EQL	PFAS - Perfluoroalkyl Sulfonamide							PFAS - Fluorotelomer Sulfonic Acids					PFAS	
	N-Ethyl perfluorooctane sulfonamide (EFOSA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EFOSAA)	N-Ethyl perfluorooctane sulfonamidoethanol (EFOSE)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Methyl perfluorooctane sulfonamidoethanol (MEFOSE)	Perfluorooctane sulfonamide (PFOSA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FTS)	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	FOJEA (2H-Perfluoro-2-decenoic acid (8:2))	8:2 Polyfluoroalkyl phosphate diester (8:2 diPAP)	
µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L		
0.02	0.01	0.05	0.02	0.01	0.05	0.01	0.01	0.01	0.01	0.01	0.01	0.02		
ADWG 2011 Health (v4.0 updated June 2025)														
PFAS NEMP 3.0 2025 Freshwater 99%														
PFAS NEMP 3.0 2025 Recreational water quality														

Catchment	SPR	Location	Field ID	Date	Sample Type	<0.05	-	-	<0.05	-	-	<0.05	<0.01	<0.05	<0.01	-	-	-
Yerriyong Gully	Source	MW008	0026_MW08_161115	15 Nov 2016	Normal	<0.05	-	-	<0.05	-	-	<0.05	<0.01	<0.05	<0.01	-	-	-
Yerriyong Gully	Source	MW008	0026_MW08_170523	23 May 2017	Normal	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	0.19	<0.01	<0.01	-	-
Yerriyong Gully	Source	MW008	0026_MW08_170620	20 Jun 2017	Normal	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	-	-
Yerriyong Gully	Source	MW008	0026_MW08_200227	27 Feb 2020	Normal	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	-	-
Yerriyong Gully	Source	MW008	0026_MW08_200825	25 Aug 2020	Normal	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	-	-
Yerriyong Gully	Source	MW008	0026_MW08_210211	11 Feb 2021	Normal	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	-	-
Yerriyong Gully	Source	MW008	0026_MW08_220210	10 Feb 2022	Normal	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	-	-
Yerriyong Gully	Source	MW008	0026_MW08_230213	13 Feb 2023	Normal	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	-	-
Yerriyong Gully	Source	MW008	0026_MW08_240214	14 Feb 2024	Normal	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	-	-
Yerriyong Gully	Source	MW008	0026_MW08_250212	12 Feb 2025	Normal	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	-	-
Yerriyong Gully	Source	MW008	0026_QC101_250212	12 Feb 2025	Field_D	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	-	-
Yerriyong Gully	Source	MW008	0026_QC201_25012	12 Feb 2025	Interlab_D	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	-	-
Yerriyong Gully	Source	MW009	0026_MW09_161013	13 Oct 2016	Normal	<0.05	-	-	<0.05	-	-	<0.05	<0.01	<0.05	<0.01	-	-	-
Yerriyong Gully	Source	MW009	0026_MW09_161115	15 Nov 2016	Normal	<0.05	-	-	<0.05	-	-	<0.05	<0.01	<0.05	<0.01	-	-	-
Yerriyong Gully	Source	MW009	0026_MW09_170523	23 May 2017	Normal	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	-	-
Yerriyong Gully	Source	MW009	0026_MW09_170620	20 Jun 2017	Normal	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	-	-
Yerriyong Gully	Source	MW009	0026_MW09_200227	27 Feb 2020	Normal	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	-	-
Yerriyong Gully	Source	MW009	0026_MW09_200826	26 Aug 2020	Normal	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	0.09	<0.05	<0.05	-	-
Yerriyong Gully	Source	MW009	0026_QC102_200826	26 Aug 2020	Field_D	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	0.08	<0.05	<0.05	-	-
Yerriyong Gully	Source	MW009	0026_FFTA_MW09_080920	08 Sep 2020	Normal	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	0.10	<0.01	<0.01	-	-
Yerriyong Gully	Source	MW009	0026_QC111_080920	08 Sep 2020	Field_D	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	0.07	<0.01	<0.01	-	-
Yerriyong Gully	Source	MW009	0026_QC210_080920	08 Sep 2020	Field_D	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	-	-
Yerriyong Gully	Source	MW009	0026_FFTA_MW09_041120	04 Nov 2020	Normal	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	-	-
Yerriyong Gully	Source	MW009	0026_MW009_210211	11 Feb 2021	Normal	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.04	<0.05	0.20	0.06	<0.05	-	-
Yerriyong Gully	Source	MW009	0026_MW009_220210	10 Feb 2022	Normal	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	-	-
Yerriyong Gully	Source	MW009	0026_MW009_230213	13 Feb 2023	Normal	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	-	-
Yerriyong Gully	Source	MW009	0026_MW009_240214	14 Feb 2024	Normal	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	-	-
Yerriyong Gully	Source	MW009	0026_MW009_250212	12 Feb 2025	Normal	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	0.16	0.07	<0.05	-	-
Yerriyong Gully	Source	MW015	0026_MW15_161013	13 Oct 2016	Normal	<0.05	-	-	<0.05	-	-	<0.05	<0.01	<0.05	<0.01	-	-	-
Yerriyong Gully	Source	MW015	0026_MW15_161116	15 Nov 2016	Normal	<0.05	-	-	<0.05	-	-	<0.05	<0.01	<0.05	<0.01	-	-	-
Yerriyong Gully	Source	MW015	0026_MW15_170523	23 May 2017	Normal	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	-	-
Yerriyong Gully	Source	MW015	0026_MW15_170620	20 Jun 2017	Normal	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	-	-
Yerriyong Gully	Source	MW015	0026_MW15_200227	27 Feb 2020	Normal	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	-	-
Yerriyong Gully	Source	MW015	0026_MW015_200826	26 Aug 2020	Normal	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	-	-
Yerriyong Gully	Source	MW015	0026_MW015_210211	11 Feb 2021	Normal	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	-	-
Yerriyong Gully	Source	MW015	0026_MW015_220207	07 Feb 2022	Normal	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	-	-
Yerriyong Gully	Source	MW015	0026_MW015_230213	13 Feb 2023	Normal	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	-	-
Yerriyong Gully	Source	MW015	0026_MW015_240214	14 Feb 2024	Normal	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	-	-
Yerriyong Gully	Source	MW015	0026_MW015_250212	12 Feb 2025	Normal	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	-	-
Yerriyong Gully	Source	MW016	0026_MW16_161013	13 Oct 2016	Normal	<0.05	-	-	<0.05	-	-	<0.05	<0.01	<0.05	<0.01	-	-	-
Yerriyong Gully	Source	MW016	0026_MW16_161116	15 Nov 2016	Normal	<0.05	-	-	<0.05	-	-	<0.05	<0.01	<0.05	<0.01	-	-	-
Yerriyong Gully	Source	MW016	0026_MW16_170523	23 May 2017	Normal	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	-	-
Yerriyong Gully	Source	MW016	0026_MW16_170620	20 Jun 2017	Normal	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	-	-
Yerriyong Gully	Source	MW016	0026_MW16_200227	27 Feb 2020	Normal	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	-	-
Yerriyong Gully	Source	MW016	0026_QC202_200227	27 Feb 2020	Interlab_D	<0.02	<0.01	<0.05	<0.02	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02
Yerriyong Gully	Source	MW016	0026_MW016_200826	26 Aug 2020	Normal	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	-	-
Yerriyong Gully	Source	MW016	0026_MW016_210211	11 Feb 2021	Normal	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	-	-
Yerriyong Gully	Source	MW016	0026_MW016_220207	07 Feb 2022	Normal	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	-	-
Yerriyong Gully	Source	MW016	0026_QC200_220207	07 Feb 2022	Interlab_D	<0.1	<0.02	<0.5	<0.05	<0.02	<0.05	<0.1	<0.01	<0.01	<0.02	<0.02	-	-
Yerriyong Gully	Source	MW016	0026_MW016_230213	13 Feb 2023	Normal	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	-	-
Yerriyong Gully	Source	MW016	0026_QC101_230213	13 Feb 2023	Field_D	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	-	-
Yerriyong Gully	Source	MW016	0026_MW016_240214	14 Feb 2024	Normal	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	-	-
Yerriyong Gully	Source	MW016	0026_MW016_250212	12 Feb 2025	Normal	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	-	-



Appendix C
Table C3
Historical Groundwater Analytical Results

	PFAS - Perfluoroalkyl Sulfonamide										PFAS - Fluorotelomer Sulfonic Acids			PFAS	
	N-Ethyl perfluorooctane sulfonamide (EFOSA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EFOSAA)	N-Ethyl perfluorooctane sulfonamidoethanol (EFOSE)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Methyl perfluorooctane sulfonamidoethanol (MEFOSE)	Perfluorooctane sulfonamide (PFOSA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FTS)	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	FOUEA (2H-Perfluoro- 2-decenoic acid (8:2))	8:2 Polyfluoroalkyl phosphate diester (8:2 diPAP)		
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L		
EQL	0.02	0.01	0.05	0.02	0.01	0.05	0.01	0.01	0.01	0.01	0.01	0.01			
ADWG 2011 Health (v4.0 updated June 2025)															
PFAS NEMP 3.0 2025 Freshwater 99%															
PFAS NEMP 3.0 2025 Recreational water quality															

Catchment	SPR	Location	Field ID	Date	Sample Type	N-Ethyl perfluorooctane sulfonamide (EFOSA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EFOSAA)	N-Ethyl perfluorooctane sulfonamidoethanol (EFOSE)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Methyl perfluorooctane sulfonamidoethanol (MEFOSE)	Perfluorooctane sulfonamide (PFOSA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FTS)	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	FOUEA (2H-Perfluoro- 2-decenoic acid (8:2))	8:2 Polyfluoroalkyl phosphate diester (8:2 diPAP)	
Yerriyong Gully	Source	MW017	0026_MW17_161013	13 Oct 2016	Normal	<0.05	-	-	<0.05	-	-	<0.05	<0.01	<0.05	<0.01	-	-	-	
Yerriyong Gully	Source	MW017	0026_MW17_161116	15 Nov 2016	Normal	<0.05	-	-	<0.05	-	-	<0.05	<0.01	<0.05	<0.01	-	-	-	
Yerriyong Gully	Source	MW017	0026_MW17_170523	23 May 2017	Normal	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	-	-	
Yerriyong Gully	Source	MW017	0026_MW17_170620	20 Jun 2017	Normal	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	-	-	
Yerriyong Gully	Source	MW017	0026_MW17_200227	27 Feb 2020	Normal	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	-	
Yerriyong Gully	Source	MW017	0026_MW017_200826	26 Aug 2020	Normal	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	-	
Yerriyong Gully	Source	MW017	0026_MW017_210211	11 Feb 2021	Normal	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	-	
Yerriyong Gully	Source	MW017	0026_QC102_210211	11 Feb 2021	Field_D	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	-	
Yerriyong Gully	Source	MW017	0026_MW017_220207	07 Feb 2022	Normal	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	-	
Yerriyong Gully	Source	MW017	0026_MW017_230213	13 Feb 2023	Normal	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	-	
Yerriyong Gully	Source	MW017	0026_QC100_230213	13 Feb 2023	Field_D	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	-	
Yerriyong Gully	Source	MW017	0026_MW017_240214	14 Feb 2024	Normal	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	-	
Yerriyong Gully	Source	MW017	0026_QC101_240214	14 Feb 2024	Field_D	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	-	
Yerriyong Gully	Source	MW017	0026_QC201_240214	14 Feb 2024	Interlab_D	<0.1	<0.02	<0.5	<0.05	<0.02	<0.05	<0.1	<0.01	<0.01	<0.02	<0.02	<0.02	-	
Yerriyong Gully	Source	MW017	0026_MW017_250212	12 Feb 2025	Normal	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	-	
Yerriyong Gully	Source	MW045	0026_MW45_170522	22 May 2017	Normal	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	<0.01	-	
Yerriyong Gully	Source	MW045	0026_MW45_170619	19 Jun 2017	Normal	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	<0.01	-	
Yerriyong Gully	Source	MW045	0026_MW45_200227	27 Feb 2020	Normal	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	-	
Yerriyong Gully	Source	MW045	0026_MW045_200826	26 Aug 2020	Normal	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	-	
Yerriyong Gully	Source	MW045	0026_MW045_210211	11 Feb 2021	Normal	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	-	
Yerriyong Gully	Source	MW045	0026_QC202_210211	11 Feb 2021	Interlab_D	<0.02	<0.01	<0.05	<0.02	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02
Yerriyong Gully	Source	MW045	0026_MW045_220207	07 Feb 2022	Normal	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	-	
Yerriyong Gully	Source	MW045	0026_MW045_230213	13 Feb 2023	Normal	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	-	
Yerriyong Gully	Source	MW045	0026_MW045_240214	14 Feb 2024	Normal	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	-	
Yerriyong Gully	Source	MW045	0026_MW045_250212	12 Feb 2025	Normal	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	-	
Yerriyong Gully	Source	MW046	0026_MW46_170522	22 May 2017	Normal	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	<0.01	-	
Yerriyong Gully	Source	MW046	0026_MW46_170619	19 Jun 2017	Normal	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	<0.01	-	
Yerriyong Gully	Source	MW046	0026_MW046_200826	26 Aug 2020	Normal	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	-	
Yerriyong Gully	Source	MW046	0026_MW046_210211	11 Feb 2021	Normal	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	-	
Yerriyong Gully	Source	MW046	0026_MW046_220207	07 Feb 2022	Normal	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	-	
Yerriyong Gully	Source	MW046	0026_MW046_230213	13 Feb 2023	Normal	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	-	
Yerriyong Gully	Pathway	MW039	0026_MW39_170523	23 May 2017	Normal	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	<0.01	-	
Yerriyong Gully	Pathway	MW039	0026_MW39_170621	21 Jun 2017	Normal	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	<0.01	-	
Yerriyong Gully	Pathway	MW039	0026_MW39_200228	28 Feb 2020	Normal	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	-	
Yerriyong Gully	Pathway	MW039	0026_MW039_200825	25 Aug 2020	Normal	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	-	
Yerriyong Gully	Pathway	MW039	0026_MW039_210209	09 Feb 2021	Normal	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	-	
Yerriyong Gully	Pathway	MW039	0026_MW039_220210	10 Feb 2022	Normal	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	-	
Yerriyong Gully	Pathway	MW039	0026_MW039_230215	15 Feb 2023	Normal	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	-	
Yerriyong Gully	Pathway	MW039	0026_MW039_240216	16 Feb 2024	Normal	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	-	
Yerriyong Gully	Pathway	MW039	0026_MW039_250211	11 Feb 2025	Normal	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	-	
Yerriyong Gully perched	Source	MW009P	0026_MW09_P_161013	13 Oct 2016	Normal	<7.5	-	-	<7.5	-	-	<7.5	<1.5	<7.5	2.0	-	-	-	
Yerriyong Gully perched	Source	MW009P	0026_MW09_P_161115	15 Nov 2016	Normal	<0.05	-	-	<0.05	-	-	<0.05	<0.01	1.1	2.0	-	-	-	
Yerriyong Gully perched	Source	MW009P	0026_QC151_161115	15 Nov 2016	Field_D	<1.5	-	-	<1.5	-	-	<1.5	<0.3	<1.5	2.0	-	-	-	
Yerriyong Gully perched	Source	MW009P	0026_QC151_161115	15 Nov 2016	Field_D	<1.5	-	-	<1.5	-	-	<1.5	<0.3	<1.5	2.1	-	-	-	
Yerriyong Gully perched	Source	MW009P	0026_MW09_P_170523	23 May 2017	Normal	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	2.2	2.3	<0.01	-	-	
Yerriyong Gully perched	Source	MW009P	0026_MW09_P_170620	20 Jun 2017	Normal	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	-	-	
Yerriyong Gully perched	Source	MW009P	0026_MW09_P_200227	27 Feb 2020	Normal	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.17	<0.05	0.87	1.13	<0.05	-	-	
Yerriyong Gully perched	Source	MW009P	0026_MW009_P_200826	26 Aug 2020	Normal	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.07	<0.05	2.44	2.77	<0.05	-	-	
Yerriyong Gully perched	Source	MW009P	0026_FFATA_MW09S_0809	08 Sep 2020	Normal	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.16	<0.01	1.3	1.4	<0.01	-	-	
Yerriyong Gully perched	Source	MW009P	0026_FFATA_MW09s_0411	04 Nov 2020	Normal	0.11	<0.05	<0.05	<0.05	0.29	<0.05	0.08	<0.01	1.7	1.7	<0.01	-	-	
Yerriyong Gully perched	Source	MW009P	0026_MW009_P_210211	11 Feb 2021	Normal	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.17	<0.05	1.37	1.78	<0.05	-	-	
Yerriyong Gully perched	Source	MW009P	0026_MW009P_220207	07 Feb 2022	Normal	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.27	<0.05	0.92	2.10	<0.05	-	-	
Yerriyong Gully perched	Source	MW009P	0026_MW009P_230213	13 Feb 2023	Normal	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.55	<0.05	0.25	2.18				



Appendix C
Table C3
Historical Groundwater Analytical Results

	PFAS - Perfluoroalkyl Sulfonamide						PFAS - Fluorotelomer Sulfonic Acids				PFAS		
	N-Ethyl perfluorooctane sulfonamide (EFOSA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EFOSAA)	N-Ethyl perfluorooctane sulfonamidoethanol (EFOSE)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Methyl perfluorooctane sulfonamidoethanol (MEFOSE)	Perfluorooctane sulfonamide (PFOSA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FTS)	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	FOUEA (2H-Perfluoro-2-decenoic acid (8:2))	8:2 Polyfluoroalkyl phosphate diester (8:2 diPAP)
EQI	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
ADWG 2011 Health (v4.0 updated June 2025)	0.02	0.01	0.05	0.02	0.01	0.05	0.01	0.01	0.01	0.01	0.01	0.01	0.02
PFAS NEMP 3.0 2025 Freshwater 99%													
PFAS NEMP 3.0 2025 Recreational water quality													

Catchment	SPR	Location	Field ID	Date	Sample Type	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.08	<0.05	0.29	0.61	<0.05	-	-
Yerriyong Gully perched	Source	MW009P	0026_MW009P_240214	14 Feb 2024	Normal	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.08	<0.05	0.29	0.61	<0.05	-	-
Yerriyong Gully perched	Source	MW009P	0026_MW009P_250212	12 Feb 2025	Normal	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.23	<0.05	0.49	1.35	<0.05	-	-

Statistics	318	279	275	318	279	275	322	322	322	322	275	4	4
Number of Results	318	279	275	318	279	275	322	322	322	322	275	4	4
Number of Detects	1	0	0	0	1	0	15	0	21	16	0	0	0
Minimum Concentration	<0.02	<0.01	<0.05	<0.02	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02
Minimum Detect	0.11	ND	ND	ND	0.29	ND	0.02	ND	0.04	0.06	ND	ND	ND
Maximum Concentration	<7.5	<2	<2	<7.5	<2	<2	<7.5	<2	<7.5	2.77	<2	<0.01	<0.02
Maximum Detect	0.11	ND	ND	ND	0.29	ND	0.55	ND	2.44	2.77	ND	ND	ND
Average Concentration *	0.046	0.017	0.038	0.044	0.018	0.029	0.041	0.024	0.085	0.1	0.024	0.005	0.01
Geometric Average *	0.027	0.012	0.028	0.026	0.013	0.026	0.016	0.014	0.029	0.018	0.017	0.005	0.01
Median Concentration *	0.025	0.01	0.025	0.025	0.01	0.025	0.01	0.025	0.025	0.025	0.025	0.005	0.01
Standard Deviation *	0.22	0.06	0.073	0.22	0.062	0.059	0.23	0.07	0.33	0.39	0.06	0	0
Geometric Standard Deviation *	1.6	1.6	1.7	1.6	1.7	1.3	2.3	2.4	2.5	3.5	2.1	1	1
95% UCL (Student's-t) *	0.0663	0.0231	0.0452	0.0651	0.0242	0.0348	0.0619	0.0304	0.115	0.135	0.0297	0.005	0.01
Number of Env Standard Exceedances	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Env Standard Exceedances (Detects Only)	0	0	0	0	0	0	0	0	0	0	0	0	0
% of Detects	0	0	0	0	0	0	5	0	7	5	0	0	0
% of Non-Detects	100	100	100	100	100	100	95	100	93	95	100	100	100
% of Detects at or above Env Standards	0	0	0	0	0	0	0	0	0	0	0	0	0
% of Results Below Env Standards or Non-Detect	100	100	100	100	100	100	100	100	100	100	100	100	100

* A Non Detect Multiplier of 0.5 has been applied.

Comments

#1 Quantification of linear and branched isomers has been conducted as a single total response using the relative response factor for the corresponding linear/branched standard.

Environmental Standards

NHMRC, June 2025, ADWG 2011 Health (v4.0 updated June 2025)
HEPA, March 2025, PFAS NEMP 3.0 2025 Freshwater 99%
HEPA, March 2025, PFAS NEMP 3.0 2025 Recreational water quality



**Appendix C
Table C4(a)
Surface Water Field Parameters February 2025**

EQL	Field Parameters						
	pH (Field)	Electrical conductivity (field)	Dissolved Oxygen (Field)	DO (%S) (Field)	Redox (Field)	Temperature (Field)	TDS (Field)
	pH units	µS/cm	mg/L	%S	mV	°C	mg/L
	0.01	0.1	0.01	0.01	0.01	0.1	0.01

Location Code	Date	Field ID	Sample Comments	pH	Electrical conductivity	Dissolved Oxygen	DO (%S)	Redox	Temperature	TDS
SW001	11 Feb 2025	0026_SW001_250211	Brown, no odour, no sheen, low turbidity.	7.04	519	4.66	57.5	366	27.1	325
SW002	11 Feb 2025	0026_SW002_250211	Clear, no odour, slight brown colour. Brittle bacterial sheen in near stagnant pool.	6.48	340.6	1.34	15	132.5	21.8	236
SW004B	11 Feb 2025	0026_SW004B_250211	Pale brown, slight tannin tea colour, no odour, no sheen, low turbidity.	6.76	289.1	4.55	54.5	418.9	24.1	191.5
SW005	11 Feb 2025	0026_SW005_250211	Clear, no odour or sheen. Small amount of foam accumulated in racing section above fall.	7.18	305.7	6.54	75	403.8	23.1	206
SW006	13 Feb 2025	0026_SW006_250212	Clear, non-turbid, no sheen, foam and bubbles on surface, no odour.	7.38	460.5	5.58	63.6	365.5	21.6	314.5
SW007	12 Feb 2025	0026_SW007_250212	Pale brown, turbid, brittle sheen, no odour, algae.	6.82	487.5	3.68	38.9	406.7	22.6	332.5
SW008	12 Feb 2025	0026_SW008_250212	Clear, non-turbid, no sheen, no odour, some sediment at base of creek.	7.46	695	6.26	69.4	283.8	20.5	494
SW009	12 Feb 2025	0026_SW009_250212	Pale brown, turbid, feathers and bird droppings on surface of water, no sheen, slight decaying organics odour.	9.21	530	10.69	137	321.5	26.5	338
SW012	12 Feb 2025	0026_SW012_250211	Clear, non-turbid, no sheen, no odour, some sediment at base of creek.	7.97	591	6.25	72.5	350.8	22.7	403
SW013	13 Feb 2025	0026_SW013_250212	Clear, non- turbid, no sheen, no odour.	7.23	567	4.25	47.7	436	22.1	383.5
SW014	13 Feb 2025	0026_SW014_250213	Clear, non-turbid, no odour or sheen. Pale brown tinge.	7.10	256.6	5.10	59.5	424.1	23.0	-
SW018	12 Feb 2025	0026_SW018_250212	Pale brown, turbid, no sheen, no odour.	7.43	420.7	5.14	66.1	392.4	29.3	253.5
SW020	11 Feb 2025	0026_SW020_250211	Clear, no odour or sheen, non-turbid.	7.16	177.7	8.22	94.1	540.1	21.3	122.9
SW049	12 Feb 2025	0026_SW049_250212	Clear, no odour or sheen, slight brown tinge.	6.87	503	2.41	26.2	235.2	19.4	364
SW065	13 Feb 2025	0026_SW065_250213	Clear, pale brown colour, no odour or sheen.	7.23	543	2.78	31.6	187.8	21.2	383.5
SW106	12 Feb 2025	0026_SW106_250212	Brown, low turbidity, some algae, no sheen, no odour.	6.26	578	5.42	58	445	23.9	454
SW123	11 Feb 2025	0026_SW123_250211	Pale brown, low turbidity, wood debris in waterway, no odour or sheen.	6.99	588	2.84	31.4	329.8	21	416
SW124	12 Feb 2025	0026_SW124_250212	Pale brown, turbid, brittle sheen, no odour, algae.	7.04	716	3.82	48.2	428.8	27.5	442

Notes

mV millivolts
mg/L milligrams per Litre
°C degrees Celsius
µS/cm microSiemens per centimetre



**Appendix C
Table C4(b)
Surface Water Field Parameters August 2025**

PFASIMB
HMAS Albatross (0026)
12626622 - Shoalhaven PFAS Lead Consultant

EQL	Field Parameters						
	pH (Field)	Electrical conductivity (field)	Dissolved Oxygen (Field)	DO (%S) (Field)	Redox (Field)	Temperature (Field)	TDS (Field)
	pH units	µS/cm	mg/L	%S	mV	°C	mg/L
EQL	0.01	0.1	0.01	0.01	0.01	0.1	0.01

Location Code	Field ID	Date	Sample Comments	pH	Electrical conductivity	Dissolved Oxygen	DO (%S)	Redox	Temperature	TDS
0026_SW185	0026_SW185_250828	28 Aug 2025	Mostly clear, pale brown tinge, no odour or sheen	7.32	625	9.34	85.6	111.8	11.8	546
0026_SW187	0026_SW187_250828	28 Aug 2025	Pale brown, moderate turbidity, no odour or sheen	6.98	149	8.52	81.1	109	13.4	124.8
0026_SW188	0026_SW188_250828	28 Aug 2025	brown, low-moderate turbidity, no odour or sheen	6.54	164.5	10.27	98.7	106	13.5	137.15
SW002	0026_SW002_250828	28 Aug 2025	Pale brown, low to moderate turbidity, brittle sheen, no odour	6.56	422.2	8.64	77	110.1	12.2	363.35
SW004B	0026_SW004B	29 Aug 2025	Pale brown, moderate turbidity, no odour or sheen	6.59	61.3	10.14	109.38	119.9	11.8	53.3
SW005	0026_SW005_250828	28 Aug 2025	Pale brown, low turbidity, no odour or sheen, some foam formation evident	6.98	289.6	9.58	92.2	101	13.9	239.2
SW006	0026_SW006_250828	28 Aug 2025	pale brown, low turbidity, no odour or sheen, pale foam covering surface of pool	7.48	406.6	12.26	110	92.5	13.5	336.7
SW007	0026_SW007_250828	28 Aug 2025	Brown, low turbidity, no odour, brittle bacteria sheen, suspected algae particles	6.5	283.5	5.82	52.2	49.6	10.9	252.2
SW008	0026_SW008_250828	28 Aug 2025	Pale brown, low to medium turbidity, no sheen or odour	7.5	341.2	8.85	81.7	101	12.1	294.45
SW009	0026_SW009_250828	28 Aug 2025	pale brown, low turbidity, no odour or sheen	7.27	388	9.31	87.9	108.6	12.7	330.85
SW012	0026_SW012_250828	28 Aug 2025	Pale brown, low-moderate turbidity, no odour or sheen	7.6	223.7	13.32	112.6	95	11.8	191.75
SW013	0026_SW013_250828	28 Aug 2025	Pale brown, moderate-high turbidity, no odour or sheen	7.44	336.3	8.4	80.3	106	13.8	278.2
SW014	0026_SW014_250828	28 Aug 2025	clear, no turbidity, sheen or odour	6.52	141.6	10.52	99.6	88.9	13.4	118.3
SW018	0026_SW018_250828	28 Aug 2025	pale brown, moderate turbidity, no odour or sheen	6.73	252.1	9.98	87.8	135.5	9.4	232.05
SW020	0026_SW020_250828	28 Aug 2025	clear, no turbidity, no odour or sheen	7.07	172.2	8.86	83.1	102.4	12.4	147.55
SW049	0026_SW049_250828	28 Aug 2025	pale brown, low turbidity, no odour or sheen	7.39	649	33.5	312.9	109.5	12.1	559
SW106	0026_SW106_250828	28 Aug 2025	Clear, no odour or sheen, non-turbid	7.56	342.2	9.93	88.7	106	10.6	306.8
SW123	0026_SW123_250828	28 Aug 2025	pale brown, low to medium turbidity, no odour or sheen	6.72	196.1	9.43	86.2	116.9	12	169.65
SW124	0026_SW124_250828	28 Aug 2025	brown, low turbidity, no odour or sheen	7.78	989	11.69	114.3	100.2	14	812.5

Statistics

Number of Results	19	19	19	19	19	19	19
Number of Detects	19	19	19	19	19	19	19
Minimum Concentration	6.5	61.3	5.82	52.2	49.6	9.4	53.3
Minimum Detect	6.5	61.3	5.82	52.2	49.6	9.4	53.3
Maximum Concentration	7.78	989	33.5	312.9	135.5	14	812.5
Maximum Detect	7.78	989	33.5	312.9	135.5	14	812.5
Average Concentration *	7.1	339	11	102	104	12	289
Geometric Average *	7.1	282	10	95	102	12	241
Median Concentration *	7.07	289.6	9.58	87.9	106	12.2	252.2
Standard Deviation *	0.43	220	5.7	53	17	1.2	184
Geometric Standard Deviation *	1.1	1.9	1.4	1.4	1.2	1.1	1.9
95% UCL (Student's-t) *	7.253	426.1	13.23	123.3	110.3	12.87	362.3
Number of Env Standard Exceedances	0	0	0	0	0	0	0
Number of Env Standard Exceedances (Detects Only)	0	0	0	0	0	0	0
% of Detects	100	100	100	100	100	100	100
% of Non-Detects	0	0	0	0	0	0	0
% of Detects at or above Env Standards	0	0	0	0	0	0	0
% of Results Below Env Standards or Non-Detect	100	100	100	100	100	100	100

* A Non Detect Multiplier of 0.5 has been applied.

EQL	PFAS				PFAS - Sums								
	Perfluorooctane sulfonic acid (PFOS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluorooctanoic acid (PFOA)	Sum of PFHxS and PFOS	PFAS (Sum of Total)	PFAS (Sum of Total)(WA DER List)	Sum of US EPA PFAS (PFOS + PFOA)*	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	Perfluorobutane sulfonic acid (PFBS)	Perfluorodecane sulfonic acid (PFDS)	Perfluorononane sulfonate (PFNS)	Perfluorohexane sulfonic acid (PFHpS)	Perfluoropropane sulfonic acid (PFPPS)
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PFAS NEMP 3.0 2025 Freshwater 99%	0.00023		19										
PFAS NEMP 3.0 2025 Recreational water quality	2	2	10	2									

Catchment	SPR Type	Location	Field ID	Date	Sample Type	Perfluorooctane sulfonic acid (PFOS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluorooctanoic acid (PFOA)	Sum of PFHxS and PFOS	PFAS (Sum of Total)	PFAS (Sum of Total)(WA DER List)	Sum of US EPA PFAS (PFOS + PFOA)*	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	Perfluorobutane sulfonic acid (PFBS)	Perfluorodecane sulfonic acid (PFDS)	Perfluorononane sulfonate (PFNS)	Perfluorohexane sulfonic acid (PFHpS)	Perfluoropropane sulfonic acid (PFPPS)
Braidwood Road Drain	Source	SW018	0026_SW018_250212	12 Feb 2025	Normal	7.90	6.28	0.50	14.2	19.3	17.9	-	-	0.75	<0.02	-	0.40	-
Braidwood Road Drain	Source	SW018	0026_SW018_250828	28 Aug 2025	Normal	1.82	1.58	0.11	3.40	4.41	4.11	-	-	0.15	<0.02	-	0.07	-
Braidwood Road Drain	Pathway	SW007	0026_SW007_250212	12 Feb 2025	Normal	0.62	0.46	0.02	1.08	1.46	1.40	-	-	0.05	<0.02	-	0.02	-
Braidwood Road Drain	Pathway	SW007	0026_QC100_250828	28 Aug 2025	Field_D	0.71	0.82	0.05	1.53	2.06	1.87	-	-	<0.02	<0.02	-	0.03	-
Braidwood Road Drain	Pathway	SW007	0026_QC200_250828	28 Aug 2025	Interlab_D	1.3#1	0.97#1	0.06#1	2.27	3.1	2.84	-	-	0.16#1	0.01#1	0.01#1	0.04#1	0.05
Braidwood Road Drain	Pathway	SW007	0026_SW007_250828	28 Aug 2025	Normal	0.74	0.77	0.06	1.51	2.28	2.07	-	-	0.14	<0.02	-	0.04	-
Braidwood Road Drain	Pathway	SW020	0026_SW020_250211	11 Feb 2025	Normal	0.97	1.02	0.03	1.99	2.43	2.29	-	-	0.09	<0.02	-	0.03	-
Braidwood Road Drain	Pathway	SW020	0026_SW020_250828	28 Aug 2025	Normal	0.66	0.76	0.02	1.42	1.74	1.62	-	-	0.06	<0.02	-	0.02	-
Braidwood Road Drain	Pathway	SW124	0026_SW124_250212	12 Feb 2025	Normal	2.40	2.20	0.09	4.60	6.13	5.62	-	-	0.29	<0.02	-	0.08	-
Braidwood Road Drain	Pathway	SW124	0026_QC101_250828	28 Aug 2025	Field_D	6.04	9.20	0.43	15.2	22.3	19.8	-	-	1.20	<0.02	-	0.30	-
Braidwood Road Drain	Pathway	SW124	0026_QC201_250828	28 Aug 2025	Interlab_D	8.6#1	10#1	0.40#1	18.6	25	22.97	-	-	1.4#1	<0.01	0.02#1	0.40#1	0.43
Braidwood Road Drain	Pathway	SW124	0026_SW124_250828	28 Aug 2025	Normal	4.68	9.01	0.42	13.7	20.4	18.1	-	-	1.16	<0.02	-	0.26	-
Braidwood Road Drain	Receptor	SW005	0026_SW005_250211	11 Feb 2025	Normal	1.90	1.45	0.07	3.35	4.28	4.03	-	-	0.14	<0.02	-	0.06	-
Braidwood Road Drain	Receptor	SW005	0026_SW005_250828	28 Aug 2025	Normal	1.77	1.46	0.11	3.23	4.25	3.94	-	-	0.15	<0.02	-	0.07	-
Braidwood Road Drain	Receptor	SW006	0026_SW006_250212	12 Feb 2025	Normal	2.70	1.69	0.10	4.39	5.52	5.20	-	-	0.18	<0.02	-	0.08	-
Braidwood Road Drain	Receptor	SW006	0026_SW006_250828	28 Aug 2025	Normal	3.84	3.19	0.24	7.03	9.30	8.64	-	-	0.33	<0.02	-	0.17	-
Cabbage Tree Creek	Receptor	SW001	0026_SW001_250211	11 Feb 2025	Normal	0.02	<0.01	<0.01	0.02	0.02	0.02	-	-	<0.02	<0.02	-	<0.02	-
Cabbage Tree Creek	Receptor	SW187	0026_SW187_250828	28 Aug 2025	Normal	0.16	0.09	<0.01	0.25	0.25	0.25	-	-	<0.02	<0.02	-	<0.02	-
Currambene Creek	Pathway	SW008	0026_SW008_250212	12 Feb 2025	Normal	1.07	1.15	0.05	2.22	2.88	2.69	-	-	0.09	<0.02	-	0.04	-
Currambene Creek	Pathway	SW008	0026_SW008_250828	28 Aug 2025	Normal	0.71	0.52	0.03	1.23	1.50	1.42	-	-	0.05	<0.02	-	0.02	-
Currambene Creek	Receptor	SW065	0026_SW065_250213	13 Feb 2025	Normal	2.42	2.66	0.10	5.08	6.81	6.37	-	-	0.25	<0.02	-	0.10	-
Currambene Creek	Receptor	SW188	0026_SW188_250828	28 Aug 2025	Normal	0.10	0.06	<0.01	0.16	0.16	0.16	-	-	<0.02	<0.02	-	<0.02	-
Flat Rock Creek	Receptor	SW002	0026_SW002_250211	11 Feb 2025	Normal	0.02	<0.01	<0.01	0.02	0.02	0.02	-	-	<0.02	<0.02	-	<0.02	-
Flat Rock Creek	Receptor	SW002	0026_SW002_250828	28 Aug 2025	Normal	0.01	0.02	<0.01	0.03	0.03	0.03	-	-	<0.02	<0.02	-	<0.02	-
Lower Calymea Creek	Receptor	SW004B	0026_SW004B_250211	11 Feb 2025	Normal	0.62	0.59	0.03	1.21	1.55	1.44	-	-	0.06	<0.02	-	0.02	-
Lower Calymea Creek	Receptor	SW004B	0026_SW004B_250828	28 Aug 2025	Normal	0.13	0.09	<0.01	0.22	0.24	0.24	-	-	<0.02	<0.02	-	<0.02	-
Parma Creek	Receptor	SW013	0026_SW013_250213	13 Feb 2025	Normal	2.26	1.51	0.06	3.77	4.62	4.36	-	-	0.13	<0.02	-	0.07	-
Parma Creek	Receptor	SW013	0026_SW013_250828	28 Aug 2025	Normal	1.48	0.80	0.04	2.28	2.66	2.53	-	-	0.06	<0.02	-	0.03	-
Parma Creek	Receptor	SW014	0026_SW014_250213	13 Feb 2025	Normal	0.33	0.29	<0.01	0.62	0.72	0.69	-	-	0.03	<0.02	-	<0.02	-
Parma Creek	Receptor	SW014	0026_SW014_250828	28 Aug 2025	Normal	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	<0.02	<0.02	-	<0.02	-
Upper Currambene Creek	Pathway	SW049	0026_SW049_250212	12 Feb 2025	Normal	0.81	0.46	0.02	1.27	1.58	1.52	-	-	0.06	<0.02	-	<0.02	-
Upper Currambene Creek	Pathway	SW049	0026_SW049_250704	04 Jul 2025	Normal	0.61	0.47	0.02	1.08	1.28	1.23	-	-	0.05	<0.02	-	<0.02	-
Upper Currambene Creek	Pathway	SW049	0026_SW049_250828	28 Aug 2025	Normal	1.45	1.50	0.08	2.95	3.89	3.55	-	-	0.14	<0.02	-	0.06	-
Upper Currambene Creek	Pathway	SW185	0026_SW185_250704	04 Jul 2025	Normal	0.60	0.45	0.03	1.05	1.30	1.22	-	-	0.05	<0.02	-	0.02	-
Upper Currambene Creek	Pathway	SW185	0026_SW185_250828	28 Aug 2025	Normal	1.16	1.50	0.08	2.66	3.62	3.30	-	-	0.16	<0.02	-	0.05	-
Yerriyong Gully	Source	SW009	0026_SW009_250212	12 Feb 2025	Normal	4.50	2.32	0.11	6.82	8.06	7.70	-	-	0.16	<0.02	-	0.10	-
Yerriyong Gully	Source	SW009	0026_SW009_250828	28 Aug 2025	Normal	7.45	3.34	0.19	10.8	12.5	11.9	-	-	0.19	<0.02	-	0.20	-
Yerriyong Gully	Source	SW106	0026_SW106_250212	12 Feb 2025	Normal	5.13	4.40	0.24	9.53	13.0	12.2	-	-	0.44	<0.02	-	0.19	-
Yerriyong Gully	Source	SW106	0026_SW106_250828	28 Aug 2025	Normal	11.4	3.89	0.24	15.3	17.7	16.8	-	-	0.34	<0.02	-	0.24	-
Yerriyong Gully	Pathway	SW012	0026_SW012_250212	12 Feb 2025	Normal	3.76	2.77	0.12	6.53	8.22	7.69	-	-	0.30	<0.02	-	0.12	-
Yerriyong Gully	Pathway	SW012	0026_SW012_250828	28 Aug 2025	Normal	0.85	0.71	0.03	1.56	1.90	1.77	-	-	0.06	<0.02	-	0.03	-
Yerriyong Gully	Pathway	SW123	0026_QC100_250211	11 Feb 2025	Field_D	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	<0.02	<0.02	-	<0.02	-
Yerriyong Gully	Pathway	SW123	0026_QC200_25011	11 Feb 2025	Interlab_D	<0.01	<0.01	<0.01	<0.01	<0.1	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Yerriyong Gully	Pathway	SW123	0026_SW123_250211	11 Feb 2025	Normal	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	<0.02	<0.02	-	<0.02	-
Yerriyong Gully	Pathway	SW123	0026_SW123_250828	28 Aug 2025	Normal	0.01	0.03	<0.01	0.04	0.04	0.04	-	-	<0.02	<0.02	-	<0.02	-

	PFAS				PFAS - Sums								
	Perfluorooctane sulfonic acid (PFOS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluorooctanoic acid (PFOA)	Sum of PFHxS and PFOS	PFAS (Sum of Total)	PFAS (Sum of Total)(WA DER List)	Sum of US EPA PFAS (PFOS + PFOA)*	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	Perfluorobutane sulfonic acid (PFBS)	Perfluorodecane sulfonic acid (PFDS)	Perfluorononane sulfonate (PFNS)	Perfluorheptane sulfonic acid (PFHpS)	Perfluoropropanesulfonic acid (PFPrS)
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PFAS NEMP 3.0 2025 Freshwater 99%	0.00023		19										
PFAS NEMP 3.0 2025 Recreational water quality	2	2	10	2									

Statistics

Number of Results	351	351	351	351	268	258	14	4	351	351	5	289	13
Number of Detects	327	314	253	328	250	240	13	3	256	13	3	187	11
Minimum Concentration	0.01	0.01	0.01	0.01	0.01	0.01	0.01	<0.01	<0.01	0.01	0.01	<0.01	<0.01
Minimum Detect	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.12	0.019	0.01	0.01	0.015	0.02
Maximum Concentration	25.4	10	0.52	34.4	38	37	13	7.1	1.66	0.08	0.03	0.4	0.43
Maximum Detect	25.4	10	0.52	34.4	38	37	13	7.1	1.66	0.08	0.03	0.4	0.43
Average Concentration *	2	1.4	0.072	3.4	4.4	4.1	2.2	2.1	0.15	0.0097	0.014	0.062	0.059
Geometric Average *	0.53	0.41	0.032	0.92	1.1	1.1	0.37	0.27	0.066	0.0088	0.011	0.033	0.029
Median Concentration *	1.03	0.95	0.04	2.2	2.705	2.525	0.74	0.665	0.1	0.01	0.01	0.04	0.03
Standard Deviation *	3.3	1.7	0.097	4.7	5.7	5.4	3.5	3.4	0.21	0.0066	0.011	0.076	0.11
Geometric Standard Deviation *	8.8	8.2	4	9.6	11	11	12	23	4.4	1.5	2.2	3.1	3
95% UCL (Student's-t) *	2.339	1.501	0.081	3.813	4.973	4.694	3.83	6.076	0.173	0.0103	0.0243	0.0691	0.115
Number of Env Standard Exceedances	351	74	0	183	0	0	0	0	0	0	0	0	0
Number of Env Standard Exceedances (Detects Only)	327	74	0	183	0	0	0	0	0	0	0	0	0
% of Detects	93	89	72	93	93	93	93	75	73	4	60	65	85
% of Non-Detects	7	11	28	7	7	7	7	25	27	96	40	35	15
% of Detects at or above Env Standards	93	21	0	52	0	0	0	0	0	0	0	0	0
% of Results Below Env Standards or Non-Detect	7	79	100	48	100	100	100	100	100	100	100	100	100

* A Non Detect Multiplier of 0.5 has been applied.

Comments

- #1 Quantification of linear and branched isomers has been conducted as a single total response using the relative response factor for the corresponding linear/branched standard.
- #2 Quantification of linear and branched isomers has been conducted as a single total response using the relative response factor for the corresponding linear standard.

Environmental Standards

HEPA, March 2025, PFAS NEMP 3.0 2025 Freshwater 99%
HEPA, March 2025, PFAS NEMP 3.0 2025 Recreational water quality

	PFAS - Perfluoroalkyl Carboxylic Acids											
	Perfluoropentane sulfonic acid (PFPeS)	Perfluorobutanoic acid (PFBA)	Perfluorodecanoic acid (PFDA)	Perfluorododecanoic acid (PFDDA)	Perfluorooheptanoic acid (PFHpA)	Perfluorohexanoic acid (PFHxA)	Perfluorononanoic acid (PFNA)	Perfluoropentanoic acid (PFPeA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorotridecanoic acid (PFTrDA)	Perfluoroundecanoic acid (PFUnDA)	Perfluorooctadecanoic acid (PFODA)
EQ	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
PFAS NEMP 3.0 2025 Freshwater 99%	0.01	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.05
PFAS NEMP 3.0 2025 Recreational water quality												

Catchment	SPR Type	Location	Field ID	Date	Sample Type	Perfluoropentane sulfonic acid (PFPeS)	Perfluorobutanoic acid (PFBA)	Perfluorodecanoic acid (PFDA)	Perfluorododecanoic acid (PFDDA)	Perfluorooheptanoic acid (PFHpA)	Perfluorohexanoic acid (PFHxA)	Perfluorononanoic acid (PFNA)	Perfluoropentanoic acid (PFPeA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorotridecanoic acid (PFTrDA)	Perfluoroundecanoic acid (PFUnDA)	Perfluorooctadecanoic acid (PFODA)
Braidwood Road Drain	Source	SW018	0026_SW018_250212	12 Feb 2025	Normal	0.66	0.2	<0.02	<0.02	0.24	1.70	<0.02	0.29	<0.05	<0.02	<0.02	-
Braidwood Road Drain	Source	SW018	0026_SW018_250828	28 Aug 2025	Normal	0.16	<0.1	<0.02	<0.02	0.05	0.32	<0.02	0.08	<0.05	<0.02	<0.02	-
Braidwood Road Drain	Pathway	SW007	0026_SW007_250212	12 Feb 2025	Normal	0.04	<0.1	<0.02	<0.02	0.02	0.15	<0.02	0.08	<0.05	<0.02	<0.02	-
Braidwood Road Drain	Pathway	SW007	0026_QC100_250828	28 Aug 2025	Field_D	0.13	<0.1	<0.02	<0.02	0.03	0.26	<0.02	<0.02	<0.05	<0.02	<0.02	-
Braidwood Road Drain	Pathway	SW007	0026_QC200_250828	28 Aug 2025	Interlab_D	0.12 ^{#1}	<0.05	<0.01	<0.01	0.04 ^{#1}	0.25	<0.01	0.06	<0.01	<0.01	<0.01	-
Braidwood Road Drain	Pathway	SW007	0026_SW007_250828	28 Aug 2025	Normal	0.13	<0.1	<0.02	<0.02	0.04	0.26	<0.02	0.06	<0.05	<0.02	<0.02	-
Braidwood Road Drain	Pathway	SW020	0026_SW020_250211	11 Feb 2025	Normal	0.08	<0.1	<0.02	<0.02	<0.02	0.16	<0.02	0.02	<0.05	<0.02	<0.02	-
Braidwood Road Drain	Pathway	SW020	0026_SW020_250828	28 Aug 2025	Normal	0.08	<0.1	<0.02	<0.02	<0.02	0.10	<0.02	0.02	<0.05	<0.02	<0.02	-
Braidwood Road Drain	Pathway	SW124	0026_SW124_250212	12 Feb 2025	Normal	0.28	<0.1	<0.02	<0.02	0.05	0.52	<0.02	0.07	<0.05	<0.02	<0.02	-
Braidwood Road Drain	Pathway	SW124	0026_QC101_250828	28 Aug 2025	Field_D	1.77	0.1	<0.02	<0.02	0.25	2.25	<0.02	0.32	<0.05	<0.02	<0.02	-
Braidwood Road Drain	Pathway	SW124	0026_QC201_250828	28 Aug 2025	Interlab_D	1.6 ^{#1}	0.13	<0.01	<0.01	0.30 ^{#1}	1.9	<0.01	0.24	<0.01	<0.01	<0.01	-
Braidwood Road Drain	Pathway	SW124	0026_SW124_250828	28 Aug 2025	Normal	1.54	0.1	<0.02	<0.02	0.22	2.23	<0.02	0.28	<0.05	<0.02	<0.02	-
Braidwood Road Drain	Receptor	SW005	0026_SW005_250211	11 Feb 2025	Normal	0.13	<0.1	<0.02	<0.02	0.05	0.32	<0.02	0.10	<0.05	<0.02	<0.02	-
Braidwood Road Drain	Receptor	SW005	0026_SW005_250828	28 Aug 2025	Normal	0.17	<0.1	<0.02	<0.02	0.05	0.33	<0.02	0.07	<0.05	<0.02	<0.02	-
Braidwood Road Drain	Receptor	SW006	0026_SW006_250212	12 Feb 2025	Normal	0.16	<0.1	<0.02	<0.02	0.05	0.40	<0.02	0.08	<0.05	<0.02	<0.02	-
Braidwood Road Drain	Receptor	SW006	0026_SW006_250828	28 Aug 2025	Normal	0.35	<0.1	<0.02	<0.02	0.12	0.78	<0.02	0.14	<0.05	<0.02	<0.02	-
Cabbage Tree Creek	Receptor	SW001	0026_SW001_250211	11 Feb 2025	Normal	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05	<0.02	<0.02	-
Cabbage Tree Creek	Receptor	SW187	0026_SW187_250828	28 Aug 2025	Normal	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05	<0.02	<0.02	-
Currambene Creek	Pathway	SW008	0026_SW008_250212	12 Feb 2025	Normal	0.11	<0.1	<0.02	<0.02	0.03	0.26	<0.02	0.04	<0.05	<0.02	<0.02	-
Currambene Creek	Pathway	SW008	0026_SW008_250828	28 Aug 2025	Normal	0.06	<0.1	<0.02	<0.02	<0.02	0.11	<0.02	<0.02	<0.05	<0.02	<0.02	-
Currambene Creek	Receptor	SW065	0026_SW065_250213	13 Feb 2025	Normal	0.22	0.1	<0.02	<0.02	0.08	0.58	<0.02	0.18	<0.05	<0.02	<0.02	-
Currambene Creek	Receptor	SW188	0026_SW188_250828	28 Aug 2025	Normal	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05	<0.02	<0.02	-
Flat Rock Creek	Receptor	SW002	0026_SW002_250211	11 Feb 2025	Normal	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05	<0.02	<0.02	-
Flat Rock Creek	Receptor	SW002	0026_SW002_250828	28 Aug 2025	Normal	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05	<0.02	<0.02	-
Lower Calymea Creek	Receptor	SW004B	0026_SW004B_250211	11 Feb 2025	Normal	0.06	<0.1	<0.02	<0.02	<0.02	0.12	<0.02	0.02	<0.05	<0.02	<0.02	-
Lower Calymea Creek	Receptor	SW004B	0026_SW004B_250828	28 Aug 2025	Normal	<0.02	<0.1	<0.02	<0.02	<0.02	0.02	<0.02	<0.02	<0.05	<0.02	<0.02	-
Parma Creek	Receptor	SW013	0026_SW013_250213	13 Feb 2025	Normal	0.13	<0.1	<0.02	<0.02	0.04	0.30	<0.02	0.06	<0.05	<0.02	<0.02	-
Parma Creek	Receptor	SW013	0026_SW013_250828	28 Aug 2025	Normal	0.08	<0.1	<0.02	<0.02	<0.02	0.13	<0.02	0.02	<0.05	<0.02	<0.02	-
Parma Creek	Receptor	SW014	0026_SW014_250213	13 Feb 2025	Normal	0.03	<0.1	<0.02	<0.02	<0.02	0.04	<0.02	<0.02	<0.05	<0.02	<0.02	-
Parma Creek	Receptor	SW014	0026_SW014_250828	28 Aug 2025	Normal	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05	<0.02	<0.02	-
Upper Currambene Creek	Pathway	SW049	0026_SW049_250212	12 Feb 2025	Normal	0.04	<0.1	<0.02	<0.02	<0.02	0.12	<0.02	0.05	<0.05	<0.02	<0.02	-
Upper Currambene Creek	Pathway	SW049	0026_SW049_250704	04 Jul 2025	Normal	0.05	<0.1	<0.02	<0.02	<0.02	0.08	<0.02	<0.02	<0.05	<0.02	<0.02	-
Upper Currambene Creek	Pathway	SW049	0026_SW049_250828	28 Aug 2025	Normal	0.22	<0.1	<0.02	<0.02	0.04	0.30	<0.02	0.04	<0.05	<0.02	<0.02	-
Upper Currambene Creek	Pathway	SW185	0026_SW185_250704	04 Jul 2025	Normal	0.06	<0.1	<0.02	<0.02	<0.02	0.09	<0.02	<0.02	<0.05	<0.02	<0.02	-
Upper Currambene Creek	Pathway	SW185	0026_SW185_250828	28 Aug 2025	Normal	0.21	<0.1	<0.02	<0.02	0.04	0.32	<0.02	0.04	<0.05	<0.02	<0.02	-
Yerriyong Gully	Source	SW009	0026_SW009_250212	12 Feb 2025	Normal	0.16	<0.1	<0.02	<0.02	0.05	0.46	<0.02	0.10	<0.05	<0.02	<0.02	-
Yerriyong Gully	Source	SW009	0026_SW009_250828	28 Aug 2025	Normal	0.25	<0.1	<0.02	<0.02	0.07	0.59	<0.02	0.11	<0.05	<0.02	<0.02	-
Yerriyong Gully	Source	SW106	0026_SW106_250212	12 Feb 2025	Normal	0.38	0.2	<0.02	<0.02	0.17	1.16	<0.02	0.44	<0.05	<0.02	<0.02	-
Yerriyong Gully	Source	SW106	0026_SW106_250828	28 Aug 2025	Normal	0.41	<0.1	<0.02	<0.02	0.10	0.70	<0.02	0.15	<0.05	<0.02	<0.02	-
Yerriyong Gully	Pathway	SW012	0026_SW012_250212	12 Feb 2025	Normal	0.26	<0.1	<0.02	<0.02	0.08	0.52	<0.02	0.14	<0.05	<0.02	<0.02	-
Yerriyong Gully	Pathway	SW012	0026_SW012_250828	28 Aug 2025	Normal	0.07	<0.1	<0.02	<0.02	<0.02	0.10	<0.02	0.02	<0.05	<0.02	<0.02	-
Yerriyong Gully	Pathway	SW123	0026_QC100_250211	11 Feb 2025	Field_D	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05	<0.02	<0.02	-
Yerriyong Gully	Pathway	SW123	0026_QC200_25011	11 Feb 2025	Interlab_D	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-
Yerriyong Gully	Pathway	SW123	0026_SW123_250211	11 Feb 2025	Normal	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05	<0.02	<0.02	-
Yerriyong Gully	Pathway	SW123	0026_SW123_250828	28 Aug 2025	Normal	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05	<0.02	<0.02	-

	PFAS - Perfluoroalkyl Carboxylic Acids											
	Perfluoropentane sulfonic acid (PFPeS)	Perfluorobutanoic acid (PFBA)	Perfluorodecanoic acid (PFDA)	Perfluorododecanoic acid (PFDoDA)	Perfluoroheptanoic acid (PFHpA)	Perfluorohexanoic acid (PFHxA)	Perfluorononanoic acid (PFNA)	Perfluoropentanoic acid (PFPeA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorotridecanoic acid (PFTrDA)	Perfluoroundecanoic acid (PFUnDA)	Perfluorooctadecanoic acid (PFODA)
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL	0.01	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.05
PFAS NEMP 3.0 2025 Freshwater 99%												
PFAS NEMP 3.0 2025 Recreational water quality												

Statistics

Number of Results	289	351	351	351	351	351	351	351	351	351	351	9
Number of Detects	211	55	4	1	206	270	10	230	0	0	1	0
Minimum Concentration	<0.01	<0.02	0.01	<0.01	0.01	0.01	0.01	0.01	<0.01	<0.01	<0.01	<0.05
Minimum Detect	0.016	0.04	0.01	0.04	0.01	0.01	0.01	0.01	ND	ND	0.05	ND
Maximum Concentration	1.77	0.4	0.02	<0.05	0.46	6.8	0.05	1.4	<0.5	<0.1	0.05	<0.05
Maximum Detect	1.77	0.4	0.02	0.04	0.46	6.8	0.05	1.4	ND	ND	0.05	ND
Average Concentration *	0.17	0.057	0.0089	0.0093	0.045	0.34	0.0089	0.077	0.026	0.01	0.0089	0.025
Geometric Average *	0.07	0.049	0.0085	0.0087	0.025	0.12	0.0084	0.037	0.018	0.0089	0.0084	0.025
Median Concentration *	0.11	0.05	0.01	0.01	0.02	0.19	0.01	0.04	0.025	0.01	0.01	0.025
Standard Deviation *	0.25	0.045	0.0024	0.0038	0.061	0.56	0.0035	0.12	0.039	0.0072	0.0031	0
Geometric Standard Deviation *	4.4	1.7	1.4	1.4	3	5.7	1.4	3.5	2.3	1.5	1.4	1
95% UCL (Student's-t) *	0.193	0.0608	0.00907	0.0096	0.0508	0.394	0.00924	0.0878	0.0299	0.0106	0.00913	0.025
Number of Env Standard Exceedances	0	0	0	0	0	0	0	0	0	0	0	0
Number of Env Standard Exceedances (Detects Only)	0	0	0	0	0	0	0	0	0	0	0	0
% of Detects	73	16	1	0	59	77	3	66	0	0	0	0
% of Non-Detects	27	84	99	100	41	23	97	34	100	100	100	100
% of Detects at or above Env Standards	0	0	0	0	0	0	0	0	0	0	0	0
% of Results Below Env Standards or Non-Detect	100	100	100	100	100	100	100	100	100	100	100	100

* A Non Detect Multiplier of 0.5 has been applied.

Comments

- #1 Quantification of linear and branched isomers has been conducted as a single total response using the relative response factor for tr
- #2 Quantification of linear and branched isomers has been conducted as a single total response using the relative response factor for tr

Environmental Standards

HEPA, March 2025, PFAS NEMP 3.0 2025 Freshwater 99%
HEPA, March 2025, PFAS NEMP 3.0 2025 Recreational water quality

	PFAS - Perfluoroalkyl Sulfonamide								PFAS - Fluorotelomer Sulfonic Acids			
	Perfluoro-n-hexadecanoic acid (PFHDA)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Methyl perfluorooctane sulfonamidoethanol (MEFOSE)	Perfluorooctane sulfonamide (PFOSA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FTS)	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL	0.02	0.02	0.01	0.05	0.02	0.01	0.05	0.01	0.01	0.01	0.01	0.01
PFAS NEMP 3.0 2025 Freshwater 99%												
PFAS NEMP 3.0 2025 Recreational water quality												

Catchment	SPR Type	Location	Field ID	Date	Sample Type	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05
Braidwood Road Drain	Source	SW018	0026_SW018_250212	12 Feb 2025	Normal	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05
Braidwood Road Drain	Source	SW018	0026_SW018_250828	28 Aug 2025	Normal	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05
Braidwood Road Drain	Pathway	SW007	0026_SW007_250212	12 Feb 2025	Normal	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05
Braidwood Road Drain	Pathway	SW007	0026_QC100_250828	28 Aug 2025	Field_D	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05
Braidwood Road Drain	Pathway	SW007	0026_QC200_250828	28 Aug 2025	Interlab_D	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01
Braidwood Road Drain	Pathway	SW007	0026_SW007_250828	28 Aug 2025	Normal	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05
Braidwood Road Drain	Pathway	SW020	0026_SW020_250211	11 Feb 2025	Normal	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05
Braidwood Road Drain	Pathway	SW020	0026_SW020_250828	28 Aug 2025	Normal	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05
Braidwood Road Drain	Pathway	SW124	0026_SW124_250212	12 Feb 2025	Normal	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05
Braidwood Road Drain	Pathway	SW124	0026_QC101_250828	28 Aug 2025	Field_D	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05
Braidwood Road Drain	Pathway	SW124	0026_QC201_250828	28 Aug 2025	Interlab_D	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01
Braidwood Road Drain	Pathway	SW124	0026_SW124_250828	28 Aug 2025	Normal	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05
Braidwood Road Drain	Receptor	SW005	0026_SW005_250211	11 Feb 2025	Normal	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05
Braidwood Road Drain	Receptor	SW005	0026_SW005_250828	28 Aug 2025	Normal	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05
Braidwood Road Drain	Receptor	SW006	0026_SW006_250212	12 Feb 2025	Normal	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05
Braidwood Road Drain	Receptor	SW006	0026_SW006_250828	28 Aug 2025	Normal	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05
Cabbage Tree Creek	Receptor	SW001	0026_SW001_250211	11 Feb 2025	Normal	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05
Cabbage Tree Creek	Receptor	SW187	0026_SW187_250828	28 Aug 2025	Normal	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05
Currambene Creek	Pathway	SW008	0026_SW008_250212	12 Feb 2025	Normal	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05
Currambene Creek	Pathway	SW008	0026_SW008_250828	28 Aug 2025	Normal	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05
Currambene Creek	Receptor	SW065	0026_SW065_250213	13 Feb 2025	Normal	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05
Currambene Creek	Receptor	SW188	0026_SW188_250828	28 Aug 2025	Normal	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05
Flat Rock Creek	Receptor	SW002	0026_SW002_250211	11 Feb 2025	Normal	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05
Flat Rock Creek	Receptor	SW002	0026_SW002_250828	28 Aug 2025	Normal	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05
Lower Calymea Creek	Receptor	SW004B	0026_SW004B_250211	11 Feb 2025	Normal	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05
Lower Calymea Creek	Receptor	SW004B	0026_SW004B_250828	28 Aug 2025	Normal	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05
Parma Creek	Receptor	SW013	0026_SW013_250213	13 Feb 2025	Normal	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05
Parma Creek	Receptor	SW013	0026_SW013_250828	28 Aug 2025	Normal	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05
Parma Creek	Receptor	SW014	0026_SW014_250213	13 Feb 2025	Normal	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05
Parma Creek	Receptor	SW014	0026_SW014_250828	28 Aug 2025	Normal	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05
Upper Currambene Creek	Pathway	SW049	0026_SW049_250212	12 Feb 2025	Normal	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05
Upper Currambene Creek	Pathway	SW049	0026_SW049_250704	04 Jul 2025	Normal	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05
Upper Currambene Creek	Pathway	SW049	0026_SW049_250828	28 Aug 2025	Normal	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05
Upper Currambene Creek	Pathway	SW185	0026_SW185_250704	04 Jul 2025	Normal	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05
Upper Currambene Creek	Pathway	SW185	0026_SW185_250828	28 Aug 2025	Normal	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05
Yerriyong Gully	Source	SW009	0026_SW009_250212	12 Feb 2025	Normal	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05
Yerriyong Gully	Source	SW009	0026_SW009_250828	28 Aug 2025	Normal	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05
Yerriyong Gully	Source	SW106	0026_SW106_250212	12 Feb 2025	Normal	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05
Yerriyong Gully	Source	SW106	0026_SW106_250828	28 Aug 2025	Normal	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05
Yerriyong Gully	Pathway	SW012	0026_SW012_250212	12 Feb 2025	Normal	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05
Yerriyong Gully	Pathway	SW012	0026_SW012_250828	28 Aug 2025	Normal	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05
Yerriyong Gully	Pathway	SW123	0026_QC100_250211	11 Feb 2025	Field_D	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05
Yerriyong Gully	Pathway	SW123	0026_QC200_25011	11 Feb 2025	Interlab_D	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01
Yerriyong Gully	Pathway	SW123	0026_SW123_250211	11 Feb 2025	Normal	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05
Yerriyong Gully	Pathway	SW123	0026_SW123_250828	28 Aug 2025	Normal	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05

	PFAS - Perfluoroalkyl Sulfonamide								PFAS - Fluorotelomer Sulfonic Acids			
	Perfluoro-n-hexadecanoic acid (PFHxDA)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-Methyl perfluorooctane sulfonamidoethanol (MEFOSE)	Perfluorooctane sulfonamide (PFOSA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FTS)	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL	0.02	0.02	0.01	0.05	0.02	0.01	0.05	0.01	0.01	0.01	0.01	0.01
PFAS NEMP 3.0 2025 Freshwater 99%												
PFAS NEMP 3.0 2025 Recreational water quality												

Statistics

Number of Results	9	331	309	289	331	309	289	351	351	351	351	289
Number of Detects	0	0	0	0	0	0	0	2	0	31	6	0
Minimum Concentration	<0.02	<0.02	<0.01	<0.05	<0.02	<0.01	<0.05	<0.01	<0.01	0.01	0.01	<0.01
Minimum Detect	ND	ND	ND	ND	ND	ND	ND	0.02	ND	0.01	0.01	ND
Maximum Concentration	<0.02	<0.1	<0.05	<0.5	<0.05	<0.05	<0.05	<0.1	<0.05	21	0.08	<0.05
Maximum Detect	ND	ND	ND	ND	ND	ND	ND	0.02	ND	21	0.08	ND
Average Concentration *	0.01	0.025	0.012	0.033	0.025	0.012	0.025	0.014	0.019	0.16	0.02	0.023
Geometric Average *	0.01	0.025	0.011	0.027	0.024	0.011	0.025	0.013	0.016	0.029	0.017	0.021
Median Concentration *	0.01	0.025	0.01	0.025	0.025	0.01	0.025	0.01	0.025	0.025	0.025	0.025
Standard Deviation *	0	0.005	0.0051	0.041	0.0024	0.0051	0	0.0088	0.009	1.3	0.0095	0.0063
Geometric Standard Deviation *	1	1.2	1.4	1.5	1.2	1.4	1	1.6	2.1	2.6	2	1.6
95% UCL (Student's-t) *	0.01	0.0258	0.0122	0.0368	0.0248	0.0122	0.025	0.0153	0.0202	0.277	0.0208	0.0232
Number of Env Standard Exceedances	0	0	0	0	0	0	0	0	0	0	0	0
Number of Env Standard Exceedances (Detects Only)	0	0	0	0	0	0	0	0	0	0	0	0
% of Detects	0	0	0	0	0	0	0	1	0	9	2	0
% of Non-Detects	100	100	100	100	100	100	100	99	100	91	98	100
% of Detects at or above Env Standards	0	0	0	0	0	0	0	0	0	0	0	0
% of Results Below Env Standards or Non-Detect	100	100	100	100	100	100	100	100	100	100	100	100

* A Non Detect Multiplier of 0.5 has been applied.

Comments

- #1 Quantification of linear and branched isomers has been conducted as a single total response using the relative response factor for t_r
- #2 Quantification of linear and branched isomers has been conducted as a single total response using the relative response factor for t_r

Environmental Standards

- HEPA, March 2025, PFAS NEMP 3.0 2025 Freshwater 99%
- HEPA, March 2025, PFAS NEMP 3.0 2025 Recreational water quality

	PFAS - Unsaturated Fluorotelomer Acids	PFAS
	FOUEA (2H-Perfluoro- 2-decenoic acid (8:2))	8:2 Polyfluoroalkyl phosphate diester (8:2 diPAP)
	µg/L	µg/L
EQL	0.01	0.02
PFAS NEMP 3.0 2025 Freshwater 99%		
PFAS NEMP 3.0 2025 Recreational water quality		

Catchment	SPR Type	Location	Field ID	Date	Sample Type		
Braidwood Road Drain	Source	SW018	0026_SW018_250212	12 Feb 2025	Normal	-	-
Braidwood Road Drain	Source	SW018	0026_SW018_250828	28 Aug 2025	Normal	-	-
Braidwood Road Drain	Pathway	SW007	0026_SW007_250212	12 Feb 2025	Normal	-	-
Braidwood Road Drain	Pathway	SW007	0026_QC100_250828	28 Aug 2025	Field_D	-	-
Braidwood Road Drain	Pathway	SW007	0026_QC200_250828	28 Aug 2025	Interlab_D	-	-
Braidwood Road Drain	Pathway	SW007	0026_SW007_250828	28 Aug 2025	Normal	-	-
Braidwood Road Drain	Pathway	SW020	0026_SW020_250211	11 Feb 2025	Normal	-	-
Braidwood Road Drain	Pathway	SW020	0026_SW020_250828	28 Aug 2025	Normal	-	-
Braidwood Road Drain	Pathway	SW124	0026_SW124_250212	12 Feb 2025	Normal	-	-
Braidwood Road Drain	Pathway	SW124	0026_QC101_250828	28 Aug 2025	Field_D	-	-
Braidwood Road Drain	Pathway	SW124	0026_QC201_250828	28 Aug 2025	Interlab_D	-	-
Braidwood Road Drain	Pathway	SW124	0026_SW124_250828	28 Aug 2025	Normal	-	-
Braidwood Road Drain	Receptor	SW005	0026_SW005_250211	11 Feb 2025	Normal	-	-
Braidwood Road Drain	Receptor	SW005	0026_SW005_250828	28 Aug 2025	Normal	-	-
Braidwood Road Drain	Receptor	SW006	0026_SW006_250212	12 Feb 2025	Normal	-	-
Braidwood Road Drain	Receptor	SW006	0026_SW006_250828	28 Aug 2025	Normal	-	-
Cabbage Tree Creek	Receptor	SW001	0026_SW001_250211	11 Feb 2025	Normal	-	-
Cabbage Tree Creek	Receptor	SW187	0026_SW187_250828	28 Aug 2025	Normal	-	-
Currambene Creek	Pathway	SW008	0026_SW008_250212	12 Feb 2025	Normal	-	-
Currambene Creek	Pathway	SW008	0026_SW008_250828	28 Aug 2025	Normal	-	-
Currambene Creek	Receptor	SW065	0026_SW065_250213	13 Feb 2025	Normal	-	-
Currambene Creek	Receptor	SW188	0026_SW188_250828	28 Aug 2025	Normal	-	-
Flat Rock Creek	Receptor	SW002	0026_SW002_250211	11 Feb 2025	Normal	-	-
Flat Rock Creek	Receptor	SW002	0026_SW002_250828	28 Aug 2025	Normal	-	-
Lower Calymea Creek	Receptor	SW004B	0026_SW004B_250211	11 Feb 2025	Normal	-	-
Lower Calymea Creek	Receptor	SW004B	0026_SW004B_250828	28 Aug 2025	Normal	-	-
Parma Creek	Receptor	SW013	0026_SW013_250213	13 Feb 2025	Normal	-	-
Parma Creek	Receptor	SW013	0026_SW013_250828	28 Aug 2025	Normal	-	-
Parma Creek	Receptor	SW014	0026_SW014_250213	13 Feb 2025	Normal	-	-
Parma Creek	Receptor	SW014	0026_SW014_250828	28 Aug 2025	Normal	-	-
Upper Currambene Creek	Pathway	SW049	0026_SW049_250212	12 Feb 2025	Normal	-	-
Upper Currambene Creek	Pathway	SW049	0026_SW049_250704	04 Jul 2025	Normal	-	-
Upper Currambene Creek	Pathway	SW049	0026_SW049_250828	28 Aug 2025	Normal	-	-
Upper Currambene Creek	Pathway	SW185	0026_SW185_250704	04 Jul 2025	Normal	-	-
Upper Currambene Creek	Pathway	SW185	0026_SW185_250828	28 Aug 2025	Normal	-	-
Yerriyong Gully	Source	SW009	0026_SW009_250212	12 Feb 2025	Normal	-	-
Yerriyong Gully	Source	SW009	0026_SW009_250828	28 Aug 2025	Normal	-	-
Yerriyong Gully	Source	SW106	0026_SW106_250212	12 Feb 2025	Normal	-	-
Yerriyong Gully	Source	SW106	0026_SW106_250828	28 Aug 2025	Normal	-	-
Yerriyong Gully	Pathway	SW012	0026_SW012_250212	12 Feb 2025	Normal	-	-
Yerriyong Gully	Pathway	SW012	0026_SW012_250828	28 Aug 2025	Normal	-	-
Yerriyong Gully	Pathway	SW123	0026_QC100_250211	11 Feb 2025	Field_D	-	-
Yerriyong Gully	Pathway	SW123	0026_QC200_25011	11 Feb 2025	Interlab_D	-	-
Yerriyong Gully	Pathway	SW123	0026_SW123_250211	11 Feb 2025	Normal	-	-
Yerriyong Gully	Pathway	SW123	0026_SW123_250828	28 Aug 2025	Normal	-	-

	PFAS - Unsaturated Fluorotelomer Acids	
	FOUEA (2H-Perfluoro- 2-decanoic acid (8:2))	PFAS 8:2 Polyfluoroalkyl phosphate diester (8:2 diPAP)
	µg/L	µg/L
EQL	0.01	0.02
PFAS NEMP 3.0 2025 Freshwater 99%		
PFAS NEMP 3.0 2025 Recreational water quality		

Statistics

Number of Results	9	9
Number of Detects	0	0
Minimum Concentration	<0.01	<0.02
Minimum Detect	ND	ND
Maximum Concentration	<0.01	<0.02
Maximum Detect	ND	ND
Average Concentration *	0.005	0.01
Geometric Average *	0.005	0.01
Median Concentration *	0.005	0.01
Standard Deviation *	0	0
Geometric Standard Deviation *	1	1
95% UCL (Student's-t) *	0.005	0.01
Number of Env Standard Exceedances	0	0
Number of Env Standard Exceedances (Detects Only)	0	0
% of Detects	0	0
% of Non-Detects	100	100
% of Detects at or above Env Standards	0	0
% of Results Below Env Standards or Non-Detect	100	100

* A Non Detect Multiplier of 0.5 has been applied.

Comments

#1 Quantification of linear and branched isomers has been conducted as a single total response using the relative response factor for th
#2 Quantification of linear and branched isomers has been conducted as a single total response using the relative response factor for th

Environmental Standards

HEPA, March 2025, PFAS NEMP 3.0 2025 Freshwater 99%
HEPA, March 2025, PFAS NEMP 3.0 2025 Recreational water quality

	PFAS				PFAS - Sums				PFAS - Individual Compounds											
	Perfluorooctane sulfonic acid (PFOS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluorodecanoic acid (PFDA)	Sum of PFHxS and PFOS	PFAS (Sum of Total)	PFAS (Sum of Total)(WA DER List)	Sum of US EPA PFAS (PFOS + PFOA)*	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	Perfluorobutane sulfonic acid (PFBS)	Perfluorodecane sulfonic acid (PFDS)	Perfluorononane sulfonate (PFNS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorobutanoic acid (PFBA)	Perfluorodecanoic acid (PFDA)	Perfluorododecanoic acid (PFDDA)	Perfluoroheptanoic acid (PFHpA)	Perfluorohexanoic acid (PFHxA)		
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L		
EQL	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.01	0.01	0.01	0.01		
PFAS NEMP 3.0 2025 Freshwater 99%	0.00023		19																	
PFAS NEMP 3.0 2025 Recreational water quality	2	2	10	2																

Catchment	SPR Type	Location	Field ID	Date	Sample Type	Perfluorooctane sulfonic acid (PFOS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluorodecanoic acid (PFDA)	Sum of PFHxS and PFOS	PFAS (Sum of Total)	PFAS (Sum of Total)(WA DER List)	Sum of US EPA PFAS (PFOS + PFOA)*	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	Perfluorobutane sulfonic acid (PFBS)	Perfluorodecane sulfonic acid (PFDS)	Perfluorononane sulfonate (PFNS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorobutanoic acid (PFBA)	Perfluorodecanoic acid (PFDA)	Perfluorododecanoic acid (PFDDA)	Perfluoroheptanoic acid (PFHpA)	Perfluorohexanoic acid (PFHxA)	
Braidwood Road Drain	Source	SW018	0026_SW18_161116	16 Nov 2016	Normal	8.0 ^{#1}	6.1 ^{#1}	0.28 ^{#1}	14.7	-	-	-	-	0.97	<0.01	-	-	-	-	0.12	<0.01	<0.01	0.13 ^{#1}	1.3 ^{#1}
Braidwood Road Drain	Source	SW018	0026_QC173_161216	16 Dec 2016	Field_D	2.5 ^{#1}	1.2 ^{#1}	0.10 ^{#1}	3.7	-	-	-	-	0.16	<0.01	-	-	-	-	0.06	<0.01	<0.01	0.05 ^{#1}	0.43 ^{#1}
Braidwood Road Drain	Source	SW018	0026_SW18_161216	16 Dec 2016	Normal	2.3 ^{#1}	1.1 ^{#1}	0.10 ^{#1}	3.4	-	-	-	-	0.14	<0.01	-	-	-	-	0.07	<0.01	<0.01	0.05 ^{#1}	0.42 ^{#1}
Braidwood Road Drain	Source	SW018	0026_QC177_170208	08 Feb 2017	Field_D	3.7 ^{#1}	0.97 ^{#1}	0.09 ^{#1}	4.67	-	-	-	-	0.12	<0.01	-	-	-	-	0.05	<0.01	<0.01	0.03 ^{#1}	0.32 ^{#1}
Braidwood Road Drain	Source	SW018	0026_SW18_170208	08 Feb 2017	Normal	3.7 ^{#1}	0.93 ^{#1}	0.09 ^{#1}	4.63	-	-	-	-	0.11	<0.01	-	-	-	-	<0.05	<0.01	<0.01	0.02 ^{#1}	0.32 ^{#1}
Braidwood Road Drain	Source	SW018	0026_SW18_200211	11 Feb 2020	Normal	2.28	1.72	0.09	4.00	5.37	5.06	-	-	0.29	<0.02	-	0.08	-	0.23	<0.1	<0.02	<0.02	0.06	0.48
Braidwood Road Drain	Source	SW018	0026_QC201_200226	26 Feb 2020	Interlab_D	1.8	1.7	0.074	3.5	-	-	-	-	0.23	<0.01	-	0.052	-	0.19	0.092	<0.01	<0.01	0.053	0.41
Braidwood Road Drain	Source	SW018	0026_SW18_200226	26 Feb 2020	Normal	2.18	1.54	0.11	3.72	5.06	4.78	-	-	0.26	<0.02	-	0.07	-	0.21	<0.1	<0.02	<0.02	0.09	0.46
Braidwood Road Drain	Source	SW018	0026_SW018_200520	20 May 2020	Normal	7.18	8.29	0.50	15.4	24.3	22.2	-	-	1.66	<0.02	-	0.40	-	1.68	0.4	<0.02	<0.02	0.46	2.99
Braidwood Road Drain	Source	SW018	0026_SW018_200714	14 Jul 2020	Normal	0.71	0.56	0.02	1.27	1.63	1.55	-	-	0.05	<0.02	-	0.02	-	0.06	<0.1	<0.02	<0.02	0.03	0.14
Braidwood Road Drain	Source	SW018	0026_SW018_200826	26 Aug 2020	Normal	0.80	2.16	0.05	2.96	4.10	3.74	-	-	0.23	<0.02	-	0.05	-	0.31	<0.1	<0.02	<0.02	0.07	0.35
Braidwood Road Drain	Source	SW018	0026_SW018_201102	02 Nov 2020	Normal	5.02	5.19	0.29	10.2	14.4	13.5	-	-	0.71	<0.02	-	0.19	-	0.71	0.2	<0.02	<0.02	0.21	1.59
Braidwood Road Drain	Source	SW018	0026_SW018_210211	11 Feb 2021	Normal	8.25	4.72	0.31	13.0	16.5	15.6	-	-	0.63	0.02	-	0.27	-	0.63	0.1	<0.02	<0.02	0.26	1.14
Braidwood Road Drain	Source	SW018	0026_SW018_210811	11 Aug 2021	Normal	0.52	2.15	0.06	2.67	4.23	3.82	-	-	0.32	<0.02	-	0.04	-	0.37	<0.1	<0.02	<0.02	0.09	0.51
Braidwood Road Drain	Source	SW018	0026_SW018_220207	07 Feb 2022	Normal	3.82	3.27	0.19	7.09	9.53	8.94	-	-	0.44	<0.02	-	0.13	-	0.46	0.1	<0.02	<0.02	0.09	0.85
Braidwood Road Drain	Source	SW018	0026_QC100_220815	15 Aug 2022	Field_D	3.09	3.48	0.16	6.57	7.99	7.46	-	-	0.25	<0.02	-	0.14	-	0.39	<0.1	<0.02	<0.02	0.07	0.35
Braidwood Road Drain	Source	SW018	0026_SW018_220815	15 Aug 2022	Normal	3.18	3.23	0.16	6.41	7.84	7.32	-	-	0.26	<0.02	-	0.15	-	0.37	<0.1	<0.02	<0.02	0.08	0.35
Braidwood Road Drain	Source	SW018	0026_SW018_230213	13 Feb 2023	Normal	4.80	4.34	0.28	8.94	12.2	11.4	-	-	0.60	<0.02	-	0.24	-	0.59	0.1	<0.02	<0.02	0.16	1.08
Braidwood Road Drain	Source	SW018	0026_SW018_230816	16 Aug 2023	Normal	3.87	8.35	0.52	12.3	18.4	17.0	-	-	1.03	<0.02	-	0.32	-	0.98	0.4	<0.02	<0.02	0.35	1.94
Braidwood Road Drain	Source	SW018	0026_SW018_240214	14 Feb 2024	Normal	3.27	1.90	0.11	5.17	6.32	6.00	-	-	0.21	<0.02	-	0.11	-	0.21	<0.1	<0.02	<0.02	0.07	0.35
Braidwood Road Drain	Source	SW018	0026_SW018_240822	22 Aug 2024	Normal	1.97	1.78	0.10	3.75	4.95	4.55	-	-	0.18	0.02	-	0.07	-	0.24	<0.1	<0.02	<0.02	0.06	0.37
Braidwood Road Drain	Source	SW018	0026_SW018_250212	12 Feb 2025	Normal	7.90	6.28	0.50	14.2	19.3	17.9	-	-	0.75	<0.02	-	0.40	-	0.66	0.2	<0.02	<0.02	0.24	1.70
Braidwood Road Drain	Source	SW018	0026_SW018_250828	28 Aug 2025	Normal	1.82	1.58	0.11	3.40	4.41	4.11	-	-	0.15	<0.02	-	0.07	-	0.16	<0.1	<0.02	<0.02	0.05	0.32
Braidwood Road Drain	Pathway	SW007	0026_SW07_161214	14 Dec 2016	Normal	3.6 ^{#1}	1.1 ^{#1}	0.12 ^{#1}	4.7	-	-	-	-	0.13	<0.01	-	-	-	0.30	<0.01	<0.01	0.42	1.8	
Braidwood Road Drain	Pathway	SW007	0026_SW07_161216	16 Dec 2016	Normal	0.59 ^{#1}	0.43 ^{#1}	0.02 ^{#1}	1.02	-	-	-	-	0.03	<0.01	-	-	-	-	<0.05	<0.01	<0.01	0.02	0.09 ^{#1}
Braidwood Road Drain	Pathway	SW007	0026_SW07_170208	08 Feb 2017	Normal	2.1 ^{#1}	0.67 ^{#1}	0.06 ^{#1}	3.37	-	-	-	-	0.08	<0.01	-	-	-	-	<0.05	<0.01	<0.01	0.02 ^{#1}	0.26 ^{#1}
Braidwood Road Drain	Pathway	SW007	0026_SW07_200211	11 Feb 2020	Normal	0.36	0.36	0.02	0.72	0.99	0.94	-	-	0.07	<0.02	-	<0.02	-	0.05	<0.1	<0.02	<0.02	<0.02	0.09
Braidwood Road Drain	Pathway	SW007	0026_SW07_200226	26 Feb 2020	Normal	1.11	0.62	0.04	1.73	2.54	2.44	-	-	0.11	<0.02	-	0.02	-	0.08	<0.1	<0.02	<0.02	0.06	0.26
Braidwood Road Drain	Pathway	SW007	0026_SW007_200520	20 May 2020	Normal	1.50	1.97	0.04	3.47	4.29	3.97	-	-	0.18	<0.02	-	0.08	-	0.24	<0.1	<0.02	<0.02	0.02	0.22
Braidwood Road Drain	Pathway	SW007	0026_SW007_200714	14 Jul 2020	Normal	0.39	0.37	0.01	0.76	0.88	0.85	-	-	0.03	<0.02	-	<0.02	-	0.03	<0.1	<0.02	<0.02	<0.02	0.05
Braidwood Road Drain	Pathway	SW007	0026_SW007_200826	26 Aug 2020	Normal	0.94	1.34	0.03	2.28	2.87	2.66	-	-	0.14	<0.02	-	0.05	-	0.16	<0.1	<0.02	<0.02	<0.02	0.19
Braidwood Road Drain	Pathway	SW007	0026_QC100_201102	02 Nov 2020	Field_D	0.62	0.80	0.02	1.42	1.70	1.60	-	-	0.07	<0.02	-	0.02	-	0.08	<0.1	<0.02	<0.02	<0.02	0.09
Braidwood Road Drain	Pathway	SW007	0026_SW007_201102	02 Nov 2020	Normal	0.73	0.84	0.02	1.57	1.90	1.79	-	-	0.08	<0.02	-	0.03	-	0.08	<0.1	<0.02	<0.02	<0.02	0.10
Braidwood Road Drain	Pathway	SW007	0026_SW007_210211	11 Feb 2021	Normal	0.47	0.18	0.01	0.65	0.90	0.88	-	-	0.03	<0.02	-	<0.02	-	0.02	<0.1	<0.02	<0.02	0.03	0.10
Braidwood Road Drain	Pathway	SW007	0026_SW007_210811	11 Aug 2021	Normal	0.25	0.93	0.02	1.18	1.74	1.59	-	-	0.13	<0.02	-	0.02	-	0.13	<0.1	<0.02	<0.02	0.03	0.18
Braidwood Road Drain	Pathway	SW007	0026_SW007_220207	07 Feb 2022	Normal	0.28	0.24	0.01	0.52	0.84	0.81	-	-	0.04	<0.02	-	<0.02	-	0.03	<0.1	<0.02	<0.02	0.02	0.12
Braidwood Road Drain	Pathway	SW007	0026_QC101_220815	15 Aug 2022	Field_D	0.97	0.63	0.05	1.60	2.24	2.09	-	-	0.13	<0.02	-	0.03	-	0.12	<0.1	<0.02	<0.02	0.04	0.19
Braidwood Road Drain	Pathway	SW007	0026_SW007_220815	15 Aug 2022	Normal	1.20	0.70	0.05	1.90	2.53	2.37	-	-	0.12	<0.02	-	0.04	-	0.12	<0.1	<0.02	<0.02	0.04	0.19
Braidwood Road Drain	Pathway	SW007	0026_SW007_230213	13 Feb 2023	Normal	0.74	0.84	0.02	1.58	1.99	1.84	-	-	0.08	<0.02	-	0.06	-	0.09	<0.1	<0.02	<0.02	<0.02	0.13
Braidwood Road Drain	Pathway	SW007	0026_SW007_230816	16 Aug 2023	Normal	0.32	0.32	0.01	0.64	0.94	0.91	-	-	0.04	<0.02	-	<0.02	-	0.03	<0.1	<0.02	<0.02	0.03	0.11
Braidwood Road Drain	Pathway	SW007	0026_SW007_240214	14 Feb 2024	Normal	1.06	0.59	0.04	1.65	2.10	1.99	-	-	0.07	<0.02	-	0.04	-	0.07	<0.1	<0.02	<0.02	0.02	0.14
Braidwood Road Drain	Pathway	SW007	0026_SW007_240822	22 Aug 2024	Normal	0.50	0.52	0.03	1.02	1.47	1													



Appendix C
Table C6
Historical Surface Water Analytical Results

EQL	PFAS				PFAS - Sums				P										
	Perfluorooctane sulfonic acid (PFOS)	Perfluorohexane sulfonic acid (PFHS)	Perfluorodecanoic acid (PFDA)	Sum of PFHxS and PFOS	PFAS (Sum of Total)	PFAS (Sum of Total)(WA DER List)	Sum of US EPA PFAS (PFOS + PFOA)*	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	Perfluorobutane sulfonic acid (PFBS)	Perfluorodecanesulfonic acid (PFDS)	Perfluorononane sulfonate (PFNS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorobutanoic acid (PFBA)	Perfluorodecanoic acid (PFDoDA)	Perfluorooctanoic acid (PFHpA)	Perfluorooctanoic acid (PFHxA)		
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L		
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.01	0.01	0.01		
PFAS NEMP 3.0 2025 Freshwater 99%	0.00023	2	10	2															
PFAS NEMP 3.0 2025 Recreational water quality	2	2	10	2															

Catchment	SPR Type	Location	Field ID	Date	Sample Type	PFOS	PFHS	PFDA	Sum of PFHxS and PFOS	PFAS (Sum of Total)	PFAS (Sum of Total)(WA DER List)	Sum of US EPA PFAS (PFOS + PFOA)*	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	PFBS	PFDS	PFNS	PFHpS	PFPeS	PFBA	PFDoDA	PFHpA	PFHxA	
Braidwood Road Drain	Pathway	SW020	0026_SW020_240822	22 Aug 2024	Normal	2.30	1.34	0.04	3.64	4.28	4.04	-	-	0.11	<0.02	-	0.05	-	0.15	<0.1	<0.02	<0.02	0.19
Braidwood Road Drain	Pathway	SW020	0026_SW020_250211	11 Feb 2025	Normal	0.97	1.02	0.03	1.99	2.43	2.29	-	-	0.09	<0.02	-	0.03	-	0.08	<0.1	<0.02	<0.02	0.16
Braidwood Road Drain	Pathway	SW020	0026_SW020_250828	28 Aug 2025	Normal	0.66	0.76	0.02	1.42	1.74	1.62	-	-	0.06	<0.02	-	0.02	-	0.08	<0.1	<0.02	<0.02	0.10
Braidwood Road Drain	Pathway	SW124	0026_SW124_250212	12 Feb 2025	Normal	2.40	2.20	0.09	4.60	6.13	5.62	-	-	0.29	<0.02	-	0.08	-	0.28	<0.1	<0.02	<0.02	0.52
Braidwood Road Drain	Pathway	SW124	0026_QC101_250828	28 Aug 2025	Field_D	6.04	9.20	0.43	15.2	22.3	19.8	-	-	1.20	<0.02	-	0.30	-	1.77	0.1	<0.02	<0.02	2.25
Braidwood Road Drain	Pathway	SW124	0026_QC201_250828	28 Aug 2025	Interlab_D	8.6 ^{#1}	10 ^{#1}	0.40 ^{#1}	18.6	25	22.97	-	-	1.4 ^{#1}	<0.01	0.02 ^{#1}	0.40 ^{#1}	0.43	1.6 ^{#1}	0.13	<0.01	<0.01	0.30 ^{#1}
Braidwood Road Drain	Pathway	SW124	0026_SW124_250828	28 Aug 2025	Normal	4.88	9.01	0.42	13.7	20.4	18.1	-	-	1.16	<0.02	-	0.26	-	1.54	0.1	<0.02	<0.02	2.23
Braidwood Road Drain	Receptor	SW005	0026_SW05_161114	14 Nov 2016	Normal	3.5 ^{#1}	2.3 ^{#1}	0.20 ^{#1}	5.8	-	-	-	-	0.30	<0.01	-	-	-	0.31	<0.01	<0.01	0.21 ^{#1}	6.8 ^{#1}
Braidwood Road Drain	Receptor	SW005	0026_SW05_161212	12 Dec 2016	Normal	2.6 ^{#1}	1.3 ^{#1}	0.09 ^{#1}	3.9	-	-	-	-	0.15	<0.01	-	-	-	0.07	<0.01	<0.01	0.10 ^{#1}	0.59 ^{#1}
Braidwood Road Drain	Receptor	SW005	0026_SW05_161217	17 Dec 2016	Normal	0.71 ^{#1}	0.22 ^{#1}	0.01 ^{#1}	0.93	-	-	-	-	0.06	<0.01	-	-	-	-	<0.05	<0.01	<0.01	0.05 ^{#1}
Braidwood Road Drain	Receptor	SW005	0026_SW05_170209	09 Feb 2017	Normal	3.4 ^{#1}	1.1 ^{#1}	0.11 ^{#1}	4.5	-	-	-	-	0.15	<0.01	-	-	-	0.10	<0.01	<0.01	0.05 ^{#1}	0.54 ^{#1}
Braidwood Road Drain	Receptor	SW005	0026_SW05_170329	29 Mar 2017	Normal	3.6 ^{#1}	2.8 ^{#1}	0.15	6.4	-	-	-	-	0.25	<0.01	-	0.09 ^{#1}	-	0.2 ^{#1}	0.14	<0.01	<0.01	0.81 ^{#1}
Braidwood Road Drain	Receptor	SW005	0026_SW05_191211	10 Dec 2019	Normal	1.68	2.96	0.06	4.64	6.68	6.28	-	-	0.31	<0.02	-	0.08	-	0.32	0.1	<0.02	<0.02	0.78
Braidwood Road Drain	Receptor	SW005	0026_SW05_200211	11 Feb 2020	Normal	1.64	1.02	0.05	2.66	3.45	3.30	-	-	0.15	<0.02	-	0.03	-	0.12	<0.1	<0.02	<0.02	0.29
Braidwood Road Drain	Receptor	SW005	0026_SW05_200226	26 Feb 2020	Normal	3.86	1.72	0.11	5.58	7.15	6.83	-	-	0.23	0.05	-	0.07	-	0.20	<0.1	<0.02	<0.02	0.56
Braidwood Road Drain	Receptor	SW005	0026_SW005_200520	20 May 2020	Normal	3.95	2.88	0.16	6.53	8.99	8.46	-	-	0.45	<0.02	-	0.13	-	0.40	<0.1	<0.02	<0.02	0.85
Braidwood Road Drain	Receptor	SW005	0026_SW005_200714	14 Jul 2020	Normal	1.95	2.09	0.10	4.04	5.69	5.35	-	-	0.25	<0.02	-	0.08	-	0.26	<0.1	<0.02	<0.02	0.10
Braidwood Road Drain	Receptor	SW005	0026_SW005_200827	27 Aug 2020	Normal	2.43	2.27	0.13	4.70	6.45	6.01	-	-	0.29	<0.02	-	0.10	-	0.34	<0.1	<0.02	<0.02	0.64
Braidwood Road Drain	Receptor	SW005	0026_SW005_201102	02 Nov 2020	Normal	4.23	2.92	0.17	7.15	9.37	8.89	-	-	0.37	<0.02	-	0.13	-	0.35	0.1	<0.02	<0.02	0.81
Braidwood Road Drain	Receptor	SW005	0026_SW005_210209	09 Feb 2021	Normal	2.84	1.65	0.14	4.49	6.10	5.78	-	-	0.32	<0.02	-	0.08	-	0.24	<0.1	<0.02	<0.02	0.58
Braidwood Road Drain	Receptor	SW005	0026_SW005_210811	11 Aug 2021	Normal	6.36	6.52	0.47	12.9	20.1	18.4	-	-	1.29	0.07	-	0.29	-	1.40	0.2	<0.02	<0.02	2.67
Braidwood Road Drain	Receptor	SW005	0026_SW005_220208	08 Feb 2022	Normal	2.81	1.81	0.13	4.42	5.79	5.49	-	-	0.20	<0.02	-	0.08	-	0.22	<0.1	<0.02	<0.02	0.77
Braidwood Road Drain	Receptor	SW005	0026_SW005_220815	15 Aug 2022	Normal	4.22	3.27	0.28	7.49	10.5	9.70	-	-	0.47	<0.02	-	0.18	-	0.58	0.1	<0.02	<0.02	1.02
Braidwood Road Drain	Receptor	SW005	0026_QC103_230215	15 Feb 2023	Field_D	3.20	1.78	0.12	4.98	6.18	5.86	-	-	0.23	<0.02	-	0.09	-	0.23	<0.1	<0.02	<0.02	0.36
Braidwood Road Drain	Receptor	SW005	0026_SW005_230215	15 Feb 2023	Normal	1.95	1.57	0.09	3.52	4.55	4.26	-	-	0.17	<0.02	-	0.09	-	0.20	<0.1	<0.02	<0.02	0.35
Braidwood Road Drain	Receptor	SW005	0026_QC101_230816	16 Aug 2023	Field_D	1.99	1.88	0.09	3.87	4.93	4.68	-	-	0.18	<0.02	-	0.07	-	0.18	<0.1	<0.02	<0.02	0.37
Braidwood Road Drain	Receptor	SW005	0026_QC201_230816	16 Aug 2023	Interlab_D	1.5	1.5	0.07	3.0	4.0	-	1.6	-	0.18	<0.02	-	0.07	-	0.18	0.04	<0.02	<0.05	0.32
Braidwood Road Drain	Receptor	SW005	0026_SW005_230816	16 Aug 2023	Normal	1.92	1.87	0.09	3.79	4.87	4.62	-	-	0.19	<0.02	-	0.07	-	0.18	<0.1	<0.02	<0.02	0.38
Braidwood Road Drain	Receptor	SW005	0026_SW005_240213	13 Feb 2024	Normal	2.38	1.79	0.11	4.17	5.49	5.16	-	-	0.25	<0.02	-	0.09	-	0.24	<0.1	<0.02	<0.02	0.44
Braidwood Road Drain	Receptor	SW005	0026_SW005_240822	22 Aug 2024	Normal	2.21	1.69	0.11	3.90	5.21	4.84	-	-	0.18	<0.02	-	0.08	-	0.22	<0.1	<0.02	<0.02	0.46
Braidwood Road Drain	Receptor	SW005	0026_SW005_250211	11 Feb 2025	Normal	1.90	1.45	0.07	3.35	4.28	4.03	-	-	0.14	<0.02	-	0.06	-	0.13	<0.1	<0.02	<0.02	0.32
Braidwood Road Drain	Receptor	SW005	0026_SW005_250828	28 Aug 2025	Normal	1.77	1.46	0.11	3.23	4.25	3.94	-	-	0.15	<0.02	-	0.07	-	0.17	<0.1	<0.02	<0.02	0.33
Braidwood Road Drain	Receptor	SW006	0026_QC160_160502	02 May 2016	Field_D	0.22 ^{#2}	0.94 ^{#2}	0.05 ^{#2}	1.16	-	-	-	-	0.15 ^{#2}	<0.01	-	-	-	-	<0.05	<0.01	<0.01	0.04 ^{#2}
Braidwood Road Drain	Receptor	SW006	0026_SW06_160502	02 May 2016	Normal	0.33 ^{#2}	0.89 ^{#2}	0.05 ^{#2}	1.22	-	-	-	-	0.15 ^{#2}	<0.01	-	-	-	-	<0.05	<0.01	<0.01	0.04 ^{#2}
Braidwood Road Drain	Receptor	SW006	0026_SW06_161031	31 Oct 2016	Normal	2.7 ^{#1}	1.9 ^{#1}	0.10 ^{#1}	4.6	-	-	-	-	0.23	<0.01	-	-	-	-	0.15	0.02	<0.01	0.10 ^{#1}
Braidwood Road Drain	Receptor	SW006	0026_SW06_161114	14 Nov 2016	Normal	1.3 ^{#1}	2.2 ^{#1}	0.16 ^{#1}	15.2	-	-	-	-	0.16	<0.01	-	-	-	-	0.05	0.02	<0.01	0.05 ^{#1}
Braidwood Road Drain	Receptor	SW006	0026_SW06_161212	12 Dec 2016	Normal	3.7 ^{#1}	2.2 ^{#1}	0.11 ^{#1}	5.9	-	-	-	-	0.23	<0.01	-	-	-	-	0.10	<0.01	<0.01	0.13 ^{#1}
Braidwood Road Drain	Receptor	SW006	0026_SW06_161216	16 Dec 2016	Normal	5.0 ^{#1}	1.2 ^{#1}	0.10 ^{#1}	6.2	-	-	-	-	0.13	<0.01	-	-	-	-	0.06	<0.01	<0.01	0.04 ^{#1}
Braidwood Road Drain	Receptor	SW006	0026_SW06_170209	09 Feb 2017	Normal	6.4 ^{#1}	2.0 ^{#1}	0.20 ^{#1}	8.4	-	-	-	-	0.28	<0.01	-	-	-	-	0.14	<0.01	<0.01	0.07 ^{#1}
Braidwood Road Drain	Receptor	SW006	0026_SW06_191211	10 Dec 2019	Normal	1.10	3.43	0.04	4.53	5.76	5.37	-	-	0.26	<0.02	-	0.08	-	0.31	<0.1	<0.02	<0.02	0.41
Braidwood Road Drain	Receptor	SW006	0026_SW06_200211	11 Feb 2020	Normal	2.10	1.66	0.09	3.76	5.15	4.83	-	-	0.30	<0.02	-	0.08	-	0.24	<0.1	<0.02	<0.02	0.47
Braidwood Road Drain	Receptor	SW006	0026_SW06_200226	26 Feb 2020	Normal	3.98	2.30	0.13	6.28	9.96	9.57	-	-	0.28	0.02	-	0.10	-	0.27	<0.1	<0.02	<0.02	0.56
Braidwood Road Drain	Receptor	SW006	0026_SW006_200520	20 May 2020	Normal	4.35	2.24	0.10	6.59	8.07	7.66	-	-	0.23	<0.02	-	0.13	-	0.26	<0.1	<0.02	<0.02	0.44
Braidwood Road Drain	Receptor	SW006	0026_SW006_200714	14 Jul 2020	Normal	1.53	1.32	0.05	2.85	3.64	3.44	-	-	0.15	<0.02	-	0.04	-	0.16	<0.1	<0.02	<0.02	0.29
Braidwood Road Drain	Receptor	SW006	0026_SW006_200826	26 Aug 2020	Normal	4.04	3.53	0.16	7.57	9.82	9.17	-	-	0.39	<0.02	-	0.18	-	0.47	<0.1	<0.02	<0.02	0.79
Braidwood Road Drain	Receptor	SW006	0026_SW006_201102	02 Nov 2020	Normal	4.19	3.57	0.20	7.76	10.4	9.85	-	-	0.45	<0.02	-	0.15	-	0.45	0.1	<0.02	<0.02	1.00
Braidwood Road Drain	Receptor	SW006	0026_SW006_210209	09 Feb 2021	Normal	13.0	2.30	0.22	15.3	17.2	16.6	-	-	0.31	0.08	-	0.22	-	0.27	<0.1	<0.02	<0.02	0.54
Braidwood Road Drain	Receptor	SW006	0026_QC101_210811	11 Aug 2021	Field_D	5.24	3.20	0.18	8.44	10.3	9.72	-	-	0.30	<0.02	-	0.18	-	0.40	<0.1	<0.02	<0.02	0.59
Braidwood Road Drain	Receptor	SW006	0026_SW006_210811	11 Aug 2021	Normal	4.87	3.48	0.21	8.35	10.6	9.93	-											

EQI	PFAS				PFAS - Sums				P															
	Perfluorooctane sulfonic acid (PFOS)	Perfluorohexane sulfonic acid (PFHS)	Perfluorodecanoic acid (PFDA)	Sum of PFHS and PFOS	PFAS (Sum of Total)	PFAS (Sum of Total)(WA DER List)	Sum of US EPA PFAS (PFOS + PFOA)*	Sum of enHealth PFAS (PFHS + PFOS + PFOA)*	Perfluorobutane sulfonic acid (PFBS)	Perfluorodecanoic acid (PFDS)	Perfluorononane sulfonate (PFNS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluoropentanoic acid (PFPeS)	Perfluorobutanoic acid (PFBA)	Perfluorodecanoic acid (PFDoDA)	Perfluorooctanoic acid (PFHpA)	Perfluorohexanoic acid (PFHxA)							
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L							
PFAS NEMP 3.0 2025 Freshwater 99%	0.00023		19											0.02										
PFAS NEMP 3.0 2025 Recreational water quality	2	2	10	2																				
Catchment	SPR Type	Location	Field ID	Date	Sample Type	Perfluorooctane sulfonic acid (PFOS)	Perfluorohexane sulfonic acid (PFHS)	Perfluorodecanoic acid (PFDA)	Sum of PFHS and PFOS	PFAS (Sum of Total)	PFAS (Sum of Total)(WA DER List)	Sum of US EPA PFAS (PFOS + PFOA)*	Sum of enHealth PFAS (PFHS + PFOS + PFOA)*	Perfluorobutane sulfonic acid (PFBS)	Perfluorodecanoic acid (PFDS)	Perfluorononane sulfonate (PFNS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluoropentanoic acid (PFPeS)	Perfluorobutanoic acid (PFBA)	Perfluorodecanoic acid (PFDoDA)	Perfluorooctanoic acid (PFHpA)	Perfluorohexanoic acid (PFHxA)		
Cabbage Tree Creek	Receptor	SW001	0026_SW001_200520	20 May 2020	Normal	0.03	<0.02	<0.01	0.03	0.03	0.03	-	-	<0.02	<0.02	-	<0.02	-	<0.02	<0.1	<0.02	<0.02	<0.02	
Cabbage Tree Creek	Receptor	SW001	0026_SW001_200714	14 Jul 2020	Normal		<0.02	<0.01	<0.01	<0.01	<0.01	-	-	<0.02	<0.02	-	<0.02	-	<0.02	<0.1	<0.02	<0.02	<0.02	
Cabbage Tree Creek	Receptor	SW001	0026_SW001_200827	27 Aug 2020	Normal	0.06	0.02	<0.01	0.08	0.08	0.08	-	-	<0.02	<0.02	-	<0.02	-	<0.02	<0.1	<0.02	<0.02	<0.02	
Cabbage Tree Creek	Receptor	SW001	0026_SW001_201102	02 Nov 2020	Normal	0.02	<0.02	<0.01	0.02	0.02	0.02	-	-	<0.02	<0.02	-	<0.02	-	<0.02	<0.1	<0.02	<0.02	<0.02	
Cabbage Tree Creek	Receptor	SW001	0026_QC101_210210	10 Feb 2021	Field_D	0.02	<0.02	<0.01	0.02	0.02	0.02	-	-	<0.02	<0.02	-	<0.02	-	<0.02	<0.1	<0.02	<0.02	<0.02	
Cabbage Tree Creek	Receptor	SW001	0026_SW001_210210	10 Feb 2021	Normal	0.02	<0.02	<0.01	0.02	0.02	0.02	-	-	<0.02	<0.02	-	<0.02	-	<0.02	<0.1	<0.02	<0.02	<0.02	
Cabbage Tree Creek	Receptor	SW001	0026_SW001_210811	11 Aug 2021	Normal	0.02	0.03	<0.01	0.05	0.05	0.05	-	-	<0.02	<0.02	-	<0.02	-	<0.02	<0.1	<0.02	<0.02	<0.02	
Cabbage Tree Creek	Receptor	SW001	0026_SW001_220208	08 Feb 2022	Normal	0.05	0.04	<0.01	0.09	0.09	0.09	-	-	<0.02	<0.02	-	<0.02	-	<0.02	<0.1	<0.02	<0.02	<0.02	
Cabbage Tree Creek	Receptor	SW001	0026_SW001_220815	15 Aug 2022	Normal	0.03	0.04	<0.01	0.07	0.07	0.07	-	-	<0.02	<0.02	-	<0.02	-	<0.02	<0.1	<0.02	<0.02	<0.02	
Cabbage Tree Creek	Receptor	SW001	0026_SW001_230215	15 Feb 2023	Normal	0.02	0.01	<0.01	0.03	0.03	0.03	-	-	<0.02	<0.02	-	<0.02	-	<0.02	<0.1	<0.02	<0.02	<0.02	
Cabbage Tree Creek	Receptor	SW001	0026_SW001_230816	16 Aug 2023	Normal	0.01	<0.01	<0.01	0.01	0.01	0.01	-	-	<0.02	<0.02	-	<0.02	-	<0.02	<0.1	<0.02	<0.02	<0.02	
Cabbage Tree Creek	Receptor	SW001	0026_SW001_240213	13 Feb 2024	Normal	0.02	0.01	<0.01	0.03	0.03	0.03	-	-	<0.02	<0.02	-	<0.02	-	<0.02	<0.1	<0.02	<0.02	<0.02	
Cabbage Tree Creek	Receptor	SW001	0026_SW001_240822	22 Aug 2024	Normal	0.03	0.01	<0.01	0.04	0.04	0.04	-	-	<0.02	<0.02	-	<0.02	-	<0.02	<0.1	<0.02	<0.02	<0.02	
Cabbage Tree Creek	Receptor	SW001	0026_SW001_250211	11 Feb 2025	Normal	0.02	<0.01	<0.01	0.02	0.02	0.02	-	-	<0.02	<0.02	-	<0.02	-	<0.02	<0.1	<0.02	<0.02	<0.02	
Cabbage Tree Creek	Receptor	SW187	0026_SW187_250828	28 Aug 2025	Normal	0.16	0.09	<0.01	0.25	0.25	0.25	-	-	<0.02	<0.02	-	<0.02	-	<0.02	<0.1	<0.02	<0.02	<0.02	
Currambene Creek	Pathway	SW008	0026_SW08_160506	06 May 2016	Normal	0.42 ^{#2}	0.61 ^{#2}	0.04 ^{#2}	1.03	-	-	-	-	0.06	<0.01	-	-	-	-	<0.05	<0.01	<0.01	0.03 ^{#2}	0.16 ^{#2}
Currambene Creek	Pathway	SW008	0026_SW08_161116	16 Nov 2016	Normal	2.0 ^{#1}	0.68 ^{#1}	0.04 ^{#1}	2.68	-	-	-	-	0.07	<0.01	-	-	-	-	<0.05	<0.01	<0.01	0.02 ^{#1}	0.22 ^{#1}
Currambene Creek	Pathway	SW008	0026_SW08_161214	14 Dec 2016	Normal	2.5 ^{#1}	1.5 ^{#1}	0.06 ^{#1}	4.3	-	-	-	-	0.16	<0.01	-	-	-	-	0.06	<0.01	<0.01	0.04 ^{#1}	0.42 ^{#1}
Currambene Creek	Pathway	SW008	0026_SW08_161217	17 Dec 2016	Normal	2.0 ^{#1}	0.56 ^{#1}	0.03 ^{#1}	2.56	-	-	-	-	0.05	<0.01	-	-	-	-	<0.05	<0.01	<0.01	0.01 ^{#1}	0.14 ^{#1}
Currambene Creek	Pathway	SW008	0026_SW08_170209	09 Feb 2017	Normal	1.6 ^{#1}	0.52 ^{#1}	0.04 ^{#1}	2.12	-	-	-	-	0.05	<0.01	-	-	-	-	<0.05	<0.01	<0.01	0.01 ^{#1}	0.15 ^{#1}
Currambene Creek	Pathway	SW008	0026_SW08_191210	10 Dec 2019	Normal	0.77	4.53	0.10	5.30	7.93	7.59	-	-	0.35	<0.02	-	0.07	-	0.27	<0.1	<0.02	<0.02	0.07	1.55
Currambene Creek	Pathway	SW008	0026_SW08_200211	11 Feb 2020	Normal	1.11	0.76	0.02	1.87	2.23	2.14	-	-	0.08	<0.02	-	0.03	-	0.06	<0.1	<0.02	<0.02	<0.02	0.14
Currambene Creek	Pathway	SW008	0026_SW08_200226	26 Feb 2020	Normal	0.92	0.92	0.04	1.84	2.39	2.28	-	-	0.10	<0.02	-	0.02	-	0.09	<0.1	<0.02	<0.02	0.02	0.24
Currambene Creek	Pathway	SW008	0026_SW08_200520	20 May 2020	Normal	1.90	1.74	0.07	3.64	4.66	4.42	-	-	0.14	<0.02	-	0.06	-	0.18	<0.1	<0.02	<0.02	0.05	0.44
Currambene Creek	Pathway	SW008	0026_SW08_200714	14 Jul 2020	Normal	0.82	0.35	0.02	1.17	1.33	1.30	-	-	0.02	<0.02	-	<0.02	-	0.03	<0.1	<0.02	<0.02	<0.02	0.09
Currambene Creek	Pathway	SW008	0026_SW08_200826	26 Aug 2020	Normal	0.80	0.90	0.03	1.70	2.23	2.08	-	-	0.10	<0.02	-	0.03	-	0.12	<0.1	<0.02	<0.02	<0.02	0.22
Currambene Creek	Pathway	SW008	0026_SW08_201102	02 Nov 2020	Normal	1.06	0.72	0.03	1.78	2.10	2.00	-	-	0.07	<0.02	-	0.03	-	0.07	<0.1	<0.02	<0.02	<0.02	0.12
Currambene Creek	Pathway	SW008	0026_SW08_210208	08 Feb 2021	Normal	2.4 ^{#1}	0.88	0.05	3.37	3.94	3.81	-	-	0.11	<0.02	-	0.04	-	0.09	<0.1	<0.02	<0.02	0.03	0.22
Currambene Creek	Pathway	SW008	0026_SW08_210811	11 Aug 2021	Normal	0.51	0.70	0.04	1.21	1.92	1.79	-	-	0.13	<0.02	-	<0.02	-	0.13	<0.1	<0.02	<0.02	0.03	0.24
Currambene Creek	Pathway	SW008	0026_SW08_220210	10 Feb 2022	Normal	2.21	2.05	0.10	4.26	5.55	5.24	-	-	0.19	<0.02	-	0.07	-	0.24	<0.1	<0.02	<0.02	0.05	0.55
Currambene Creek	Pathway	SW008	0026_SW08_220815	15 Aug 2022	Normal	1.28	1.89	0.11	3.17	4.52	4.15	-	-	0.24	<0.02	-	0.06	-	0.31	<0.1	<0.02	<0.02	0.06	0.49
Currambene Creek	Pathway	SW008	0026_QC102_230214	14 Feb 2023	Field_D	1.42	1.11	0.07	2.53	3.23	3.05	-	-	0.13	<0.02	-	0.04	-	0.14	<0.1	<0.02	<0.02	0.03	0.24
Currambene Creek	Pathway	SW008	0026_SW08_230214	14 Feb 2023	Normal	1.52	1.01	0.05	2.53	3.16	2.97	-	-	0.09	<0.02	-	0.06	-	0.13	<0.1	<0.02	<0.02	0.02	0.24
Currambene Creek	Pathway	SW008	0026_SW08_230816	16 Aug 2023	Normal	0.97	0.89	0.04	1.86	2.42	2.33	-	-	0.05	<0.02	-	0.03	-	0.06	<0.1	<0.02	<0.02	0.03	0.30
Currambene Creek	Pathway	SW008	0026_SW08_240214	14 Feb 2024	Normal	1.27	1.16	0.05	2.43	3.21	3.04	-	-	0.12	<0.02	-	0.04	-	0.13	<0.1	<0.02	<0.02	0.04	0.33
Currambene Creek	Pathway	SW008	0026_SW08_240822	22 Aug 2024	Normal	1.02	1.35	0.08	2.37	3.37	3.08	-	-	0.14	<0.02	-	0.04	-	0.20	<0.1	<0.02	<0.02	0.05	0.36
Currambene Creek	Pathway	SW008	0026_SW08_250212	12 Feb 2025	Normal	1.07	1.15	0.05	2.22	2.88	2.69	-	-	0.09	<0.02	-	0.04	-	0.11	<0.1	<0.02	<0.02	0.03	0.26
Currambene Creek	Pathway	SW008	0026_SW08_250828	28 Aug 2025	Normal	0.71	0.52	0.03	1.23	1.50	1.42	-	-	0.05	<0.02	-	0.02	-	0.06	<0.1	<0.02	<0.02	<0.02	0.11
Currambene Creek	Receptor	SW065	0026_SW65_021120	02 Nov 2020	Normal	0.66 ^{#1}	0.53 ^{#1}	0.02 ^{#1}	1.19	1.45	1.34	0.68	1.21	0.05	<0.01	-	0.02 ^{#1}	0.03	0.06 ^{#1}	<0.05	<0.01	<0.01	<0.01	0.07
Currambene Creek	Receptor	SW065	0026_SW65_271120	27 Nov 2020	Normal	1.6 ^{#2}	1.1 ^{#2}	0.08 ^{#2}	2.7	-	-	-	-	0.09 ^{#2}	<0.01	-	0.03 ^{#2}	0.03	0.10 ^{#2}	0.07	<0.01	<0.01	0.03 ^{#2}	0.36 ^{#2}
Currambene Creek	Receptor	SW065	0026_SW65_271120_F	27 Nov 2020	Normal	1.4	0.95	0.06	2.35	-	-	-	-	0.08	<0.01	-	0.05	0.02	0.08	0.07	<0.01	<0.01	0.03	0.29
Currambene Creek	Receptor	SW065	0026_SW65_151220	15 Dec 2020	Normal	2.1 ^{#2}	1.7 ^{#2}	0.07 ^{#2}	3.8	-	-	-	-	0.10	<0.01	-	0.06 ^{#2}	0.05	0.12 ^{#2}	0.07	<0.01	<0.01	0.04	0.39
Currambene Creek	Receptor	SW065	0026_SW65_110121	11 Jan 2021	Normal	1.3 ^{#2}	0.61 ^{#2}	0.03 ^{#2}	1.91	-	-	-	-	0.06	<0.01	-	0.02 ^{#2}	0.02	0.05 ^{#2}	<0.05	<0.01	<0.01	0.01 ^{#2}	0.10 ^{#2}
Currambene Creek	Receptor	SW065	0026_SW65_080221	08 Feb 2021	Normal	1.2 ^{#2}	1.0 ^{#2}	0.03 ^{#2}	2.2	-	-	-	-	0.09	<0.01	-	0.04 ^{#2}	0.03	0.10	<0.05	<0.01	<0.01	0.02	0.17
Currambene Creek	Receptor	SW065	0026_SW65_080221_F	08 Feb 2021	Normal	1.4 ^{#2}	1.1 ^{#2}	0.03 ^{#2}	2.5	-	-	-	-	0.09	<0.01	-	0.05 ^{#2}	0.03	0.12 ^{#2}	<0.05	<0.01	<0.01	0.02 ^{#2}	0.17
Currambene Creek	Receptor	SW065	0026_SW65_170621	17 Jun 2021	Normal	1.5 ^{#2}	0.82 ^{#2}	0.03 ^{#2}	2.32	-	-	-	-	0.06 ^{#2}	<0.01	-	0.03 ^{#2}	0.02	0.07 ^{#2}	<0.2	<0.01	<0.01	0.02 ^{#2}	0.18 ^{#2}
Currambene Creek	Receptor	SW065	0026_SW065_250213	13 Feb 2025	Normal	2.4 ^{#2}	2.66	0.10	5.08	6.81	6.37	-	-	0.25	<0.02	-	0.10	-	0.22	0.1	<0.02	<0.02	0.08	0.58
Currambene Creek	Receptor	SW188	0026_SW188_250828	28 Aug 2025	Normal	0.																		



Appendix C
Table C6
Historical Surface Water Analytical Results

EQL	PFAS				PFAS - Sums				PFAS										
	Perfluorooctane sulfonic acid (PFOS)	Perfluorohexane sulfonic acid (PFHS)	Perfluorodecanoic acid (PFDA)	Sum of PFHxS and PFOS	PFAS (Sum of Total)	PFAS (Sum of Total)(WA DER List)	Sum of US EPA PFAS (PFOS + PFOA)*	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	Perfluorobutane sulfonic acid (PFBS)	Perfluorodecanoic acid (PFDS)	Perfluorononane sulfonate (PFNS)	Perfluorohexane sulfonic acid (PFHpS)	Perfluoropentanoic acid (PFPeS)	Perfluorobutanoic acid (PFBA)	Perfluorodecanoic acid (PFDoDA)	Perfluorooctanoic acid (PFHpA)	Perfluorodecanoic acid (PFDoDA)	Perfluorooctanoic acid (PFHpA)	Perfluorooctanoic acid (PFHxA)
µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
0.00023	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
PFAS NEMP 3.0 2025 Freshwater 99%	2	2	10	2															
PFAS NEMP 3.0 2025 Recreational water quality																			

Catchment	SPR Type	Location	Field ID	Date	Sample Type	Perfluorooctane sulfonic acid (PFOS)	Perfluorohexane sulfonic acid (PFHS)	Perfluorodecanoic acid (PFDA)	Sum of PFHxS and PFOS	PFAS (Sum of Total)	PFAS (Sum of Total)(WA DER List)	Sum of US EPA PFAS (PFOS + PFOA)*	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	Perfluorobutane sulfonic acid (PFBS)	Perfluorodecanoic acid (PFDS)	Perfluorononane sulfonate (PFNS)	Perfluorohexane sulfonic acid (PFHpS)	Perfluoropentanoic acid (PFPeS)	Perfluorobutanoic acid (PFBA)	Perfluorodecanoic acid (PFDoDA)	Perfluorooctanoic acid (PFHpA)	Perfluorodecanoic acid (PFDoDA)	Perfluorooctanoic acid (PFHpA)	Perfluorooctanoic acid (PFHxA)
Flat Rock Creek	Receptor	SW002	0026_SW002_201102	02 Nov 2020	Normal	0.01	0.02	<0.01	0.03	0.03	0.03	-	-	<0.02	<0.02	-	<0.02	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02
Flat Rock Creek	Receptor	SW002	0026_QC201_210210	10 Feb 2021	Interlab_D		0.015	<0.01	0.015	-	-	-	-	<0.01	<0.01	-	<0.01	-	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01
Flat Rock Creek	Receptor	SW002	0026_SW002_210210	10 Feb 2021	Normal	0.01	<0.02	<0.01	0.01	0.01	0.01	-	-	<0.02	<0.02	-	<0.02	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02
Flat Rock Creek	Receptor	SW002	0026_SW002_210811	11 Aug 2021	Normal		<0.02	<0.01	<0.01	<0.01	<0.01	-	-	<0.02	<0.02	-	<0.02	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02
Flat Rock Creek	Receptor	SW002	0026_QC202_220208	08 Feb 2022	Interlab_D	0.01	0.03	<0.01	0.04	0.04	-	0.01	-	<0.01	<0.02	-	<0.01	-	<0.01	<0.02	<0.02	<0.05	<0.01	<0.01
Flat Rock Creek	Receptor	SW002	0026_SW002_220208	08 Feb 2022	Normal	0.02	0.04	<0.01	0.06	0.06	0.06	-	-	<0.02	<0.02	-	<0.02	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02
Flat Rock Creek	Receptor	SW002	0026_SW002_220815	15 Aug 2022	Normal	0.01	0.02	<0.01	0.03	0.03	0.03	-	-	<0.02	<0.02	-	<0.02	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02
Flat Rock Creek	Receptor	SW002	0026_QC203_230215	15 Feb 2023	Interlab_D	0.03	0.03	<0.01	0.06	0.06	-	0.03	-	<0.01	<0.02	-	<0.01	-	<0.01	<0.02	<0.05	<0.01	<0.01	<0.01
Flat Rock Creek	Receptor	SW002	0026_SW002_230215	15 Feb 2023	Normal	0.02	0.02	<0.01	0.04	0.04	0.04	-	-	<0.02	<0.02	-	<0.02	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02
Flat Rock Creek	Receptor	SW002	0026_SW002_230816	16 Aug 2023	Normal	0.03	0.06	<0.01	0.09	0.09	0.09	-	-	<0.02	<0.02	-	<0.02	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02
Flat Rock Creek	Receptor	SW002	0026_SW002_240213	13 Feb 2024	Normal	0.03	0.04	<0.01	0.07	0.07	0.07	-	-	<0.02	<0.02	-	<0.02	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02
Flat Rock Creek	Receptor	SW002	0026_SW002_240822	22 Aug 2024	Normal	0.01	0.01	<0.01	0.02	0.02	0.02	-	-	<0.02	<0.02	-	<0.02	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02
Flat Rock Creek	Receptor	SW002	0026_SW002_250211	11 Feb 2025	Normal	0.02	<0.01	<0.01	0.02	0.02	0.02	-	-	<0.02	<0.02	-	<0.02	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02
Flat Rock Creek	Receptor	SW002	0026_SW002_250828	28 Aug 2025	Normal	0.01	0.02	<0.01	0.03	0.03	0.03	-	-	<0.02	<0.02	-	<0.02	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02
Lower Calymea Creek	Receptor	SW004B	0026_SW04B_191211	10 Dec 2019	Normal	0.05	0.08	<0.01	0.13	0.16	0.16	-	-	<0.02	<0.02	-	<0.02	-	<0.02	<0.1	<0.02	<0.02	<0.02	0.03
Lower Calymea Creek	Receptor	SW004B	0026_SW04B_200211	11 Feb 2020	Normal	0.38	0.31	0.02	0.69	0.93	0.89	-	-	0.05	<0.02	-	<0.02	-	0.04	<0.1	<0.02	<0.02	<0.02	0.09
Lower Calymea Creek	Receptor	SW004B	0026_SW04B_200226	26 Feb 2020	Normal	0.31	0.22	0.01	0.53	0.69	0.67	-	-	0.03	<0.02	-	<0.02	-	0.02	<0.1	<0.02	<0.02	<0.02	0.07
Lower Calymea Creek	Receptor	SW004B	0026_SW04B_200520	20 May 2020	Normal	0.86	0.59	0.03	1.45	1.94	1.84	-	-	0.10	<0.02	-	0.02	-	0.08	<0.1	<0.02	<0.02	0.03	0.16
Lower Calymea Creek	Receptor	SW004B	0026_SW04B_200714	14 Jul 2020	Normal	0.36	0.44	0.02	0.80	1.11	1.06	-	-	0.06	<0.02	-	<0.02	-	0.05	<0.1	<0.02	<0.02	0.02	0.12
Lower Calymea Creek	Receptor	SW004B	0026_QC204_200827	27 Aug 2020	Interlab_D	0.30	0.14	<0.01	0.44	0.51	-	0.30	-	0.02	<0.02	-	<0.01	-	0.02	<0.02	<0.05	<0.01	<0.01	0.03
Lower Calymea Creek	Receptor	SW004B	0026_SW04B_200827	27 Aug 2020	Normal	0.46	0.15	<0.01	0.61	0.67	0.67	-	-	0.02	<0.02	-	<0.02	-	<0.02	<0.1	<0.02	<0.02	<0.02	0.04
Lower Calymea Creek	Receptor	SW004B	0026_SW04B_201102	02 Nov 2020	Normal	0.35	0.44	0.02	0.79	1.09	1.03	-	-	0.06	<0.02	-	<0.02	-	0.06	<0.1	<0.02	<0.02	<0.02	0.13
Lower Calymea Creek	Receptor	SW004B	0026_SW04B_210210	10 Feb 2021	Normal	0.41	0.24	0.02	0.65	0.84	0.81	-	-	0.04	<0.02	-	<0.02	-	0.03	<0.1	<0.02	<0.02	<0.02	0.08
Lower Calymea Creek	Receptor	SW004B	0026_QC200_210811	11 Aug 2021	Interlab_D		<0.01	<0.01	<0.01	<0.02	-	-	-	<0.01	<0.01	-	<0.01	-	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01
Lower Calymea Creek	Receptor	SW004B	0026_SW04B_210811	11 Aug 2021	Normal	0.20	0.18	<0.01	0.38	0.46	0.44	-	-	0.02	<0.02	-	<0.02	-	0.02	<0.1	<0.02	<0.02	<0.02	0.04
Lower Calymea Creek	Receptor	SW004B	0026_SW04B_220208	08 Feb 2022	Normal	0.19	0.14	<0.01	0.33	0.37	0.37	-	-	<0.02	<0.02	-	<0.02	-	<0.02	<0.1	<0.02	<0.02	<0.02	0.04
Lower Calymea Creek	Receptor	SW004B	0026_SW04B_220815	15 Aug 2022	Normal	0.14	0.11	<0.01	0.25	0.28	0.28	-	-	<0.02	<0.02	-	<0.02	-	<0.02	<0.1	<0.02	<0.02	<0.02	0.03
Lower Calymea Creek	Receptor	SW004B	0026_SW04B_230215	15 Feb 2023	Normal	0.20	0.18	0.01	0.38	0.47	0.45	-	-	0.02	<0.02	-	<0.02	-	0.02	<0.1	<0.02	<0.02	<0.02	0.04
Lower Calymea Creek	Receptor	SW004B	0026_SW04B_230816	16 Aug 2023	Normal	0.62	0.81	0.04	1.43	1.95	1.83	-	-	0.10	<0.02	-	0.03	-	0.09	<0.1	<0.02	<0.02	0.03	0.18
Lower Calymea Creek	Receptor	SW004B	0026_SW04B_240213	13 Feb 2024	Normal	0.26	0.17	<0.01	0.43	0.49	0.47	-	-	<0.02	<0.02	-	<0.02	-	0.02	<0.1	<0.02	<0.02	<0.02	0.04
Lower Calymea Creek	Receptor	SW004B	0026_SW04B_240822	26 Aug 2024	Normal	0.09	0.05	<0.01	0.14	0.14	0.14	-	-	<0.02	<0.02	-	<0.02	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02
Lower Calymea Creek	Receptor	SW004B	0026_SW04B_250211	11 Feb 2025	Normal	0.62	0.59	0.03	1.21	1.55	1.44	-	-	0.06	<0.02	-	0.02	-	0.06	<0.1	<0.02	<0.02	<0.02	0.12
Lower Calymea Creek	Receptor	SW004B	0026_SW04B_250828	28 Aug 2025	Normal	0.13	0.09	<0.01	0.22	0.24	0.24	-	-	<0.02	<0.02	-	<0.02	-	<0.02	<0.1	<0.02	<0.02	<0.02	0.02
Parma Creek	Receptor	SW013	0026_SW13_161114	14 Nov 2016	Normal	2.7 ^{#1}	1.7 ^{#1}	0.07 ^{#1}	4.4	-	-	-	-	0.27	<0.01	-	-	-	0.06	<0.01	<0.01	<0.01	0.04 ^{#1}	0.42 ^{#1}
Parma Creek	Receptor	SW013	0026_SW13_161213	13 Dec 2016	Normal		<0.01	<0.01	<0.01	-	-	-	-	<0.01	<0.01	-	-	-	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01
Parma Creek	Receptor	SW013	0026_SW13_161216	16 Dec 2016	Normal	2.3 ^{#1}	1.0 ^{#1}	0.05 ^{#1}	3.3	-	-	-	-	0.12	<0.01	-	-	-	<0.05	<0.01	<0.01	0.02 ^{#1}	0.23 ^{#1}	
Parma Creek	Receptor	SW013	0026_SW13_170208	08 Feb 2017	Normal	0.64 ^{#1}	0.29 ^{#1}	0.02 ^{#1}	0.93	-	-	-	-	0.03	<0.01	-	-	-	<0.05	<0.01	<0.01	<0.01	0.07 ^{#1}	0.17 ^{#1}
Parma Creek	Receptor	SW013	0026_SW13_170328	28 Mar 2017	Normal	2.2 ^{#1}	1.5 ^{#1}	0.06 ^{#1}	3.7	-	-	-	-	0.12	<0.01	-	0.05 ^{#1}	-	0.11 ^{#1}	<0.05	<0.01	<0.01	0.03 ^{#1}	0.27 ^{#1}
Parma Creek	Receptor	SW013	0026_QC200_191211	12 Nov 2019	Interlab_D	0.83	1.8	0.064	2.63	-	-	-	-	0.27	<0.01	-	0.034	-	0.22	0.086	<0.01	<0.01	0.067	0.46
Parma Creek	Receptor	SW013	0026_SW13_191211	10 Dec 2019	Normal	0.78	0.06	0.06	3.62	5.34	4.99	-	-	0.36	<0.02	-	0.05	-	0.30	<0.02	<0.02	0.07	0.76	0.76
Parma Creek	Receptor	SW013	0026_QC200_200211	11 Feb 2020	Interlab_D	0.61	0.57	0.019	1.18	-	-	-	-	0.064	<0.01	-	0.016	-	0.059	<0.05	<0.01	<0.01	0.014	0.10
Parma Creek	Receptor	SW013	0026_SW13_200211	11 Feb 2020	Normal	0.82	0.71	0.03	1.53	1.89	1.80	-	-	0.08	<0.02	-	0.02	-	0.07	<0.1	<0.02	<0.02	<0.02	0.13
Parma Creek	Receptor	SW013	0026_QC101_200226	26 Feb 2020	Field_D	1.55	1.55	0.08	3.10	4.07	3.87	-	-	0.16	<0.02	-	0.05	-	0.15	<0.1	<0.02	<0.02	0.04	0.38
Parma Creek	Receptor	SW013	0026_SW13_200226	26 Feb 2020	Normal	1.41	1.54	0.08	2.95	3.95	3.75	-	-	0.17	<0.02	-	0.05	-	0.15	<0.1	<0.02	<0.02	0.05	0.39
Parma Creek	Receptor	SW013	0026_QC100_200520	20 May 2020	Field_D	1.47	1.74	0.08	3.21	4.32	4.02	-	-	0.22	<0.02									

EQL	PFAS				PFAS - Sums								PFAS							
	Perfluorooctane sulfonic acid (PFOS)	Perfluorohexane sulfonic acid (PFHS)	Perfluorodecanoic acid (PFDA)	Sum of PFHxS and PFOS	PFAS (Sum of Total)	PFAS (Sum of Total)(WA DER List)	Sum of US EPA PFAS (PFOS + PFOA)*	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	Perfluorobutane sulfonic acid (PFBS)	Perfluorodecane sulfonic acid (PFDS)	Perfluorononane sulfonate (PFNS)	Perfluorohexane sulfonic acid (PFHpS)	Perfluoropentanoic acid (PFPeS)	Perfluorobutanoic acid (PFBA)	Perfluorodecanoic acid (PFDA)	Perfluorodecanoic acid (PFDoDA)	Perfluorooctanoic acid (PFHpA)	Perfluorooctanoic acid (PFHxA)		
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L		
0.00023	2	2	10	2										0.02						

Catchment	SPR Type	Location	Field ID	Date	Sample Type	Perfluorooctane sulfonic acid (PFOS)	Perfluorohexane sulfonic acid (PFHS)	Perfluorodecanoic acid (PFDA)	Sum of PFHxS and PFOS	PFAS (Sum of Total)	PFAS (Sum of Total)(WA DER List)	Sum of US EPA PFAS (PFOS + PFOA)*	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	Perfluorobutane sulfonic acid (PFBS)	Perfluorodecane sulfonic acid (PFDS)	Perfluorononane sulfonate (PFNS)	Perfluorohexane sulfonic acid (PFHpS)	Perfluoropentanoic acid (PFPeS)	Perfluorobutanoic acid (PFBA)	Perfluorodecanoic acid (PFDA)	Perfluorodecanoic acid (PFDoDA)	Perfluorooctanoic acid (PFHpA)	Perfluorooctanoic acid (PFHxA)	
Parma Creek	Receptor	SW014	0026_SW14_170208	08 Feb 2017	Normal	0.57 ^{#1}	0.21 ^{#1}	0.02 ^{#1}	0.78	-	-	-	-	0.02	<0.01	-	-	-	-	<0.05	<0.01	<0.01	<0.01	0.06 ^{#1}
Parma Creek	Receptor	SW014	0026_SW14_170328	28 Mar 2017	Normal	0.25 ^{#1}	0.21 ^{#1}	0.01 ^{#1}	0.46	-	-	-	-	0.02	<0.01	-	<0.01	-	0.02 ^{#1}	<0.05	<0.01	<0.01	<0.01	0.04 ^{#1}
Parma Creek	Receptor	SW014	0026_SW14_191211	10 Dec 2019	Normal	0.78	2.02	0.04	2.80	3.88	3.62	-	-	0.24	<0.02	-	0.05	-	0.21	<0.1	<0.02	<0.02	0.04	0.43
Parma Creek	Receptor	SW014	0026_SW14_200211	11 Feb 2020	Normal	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	<0.02	<0.02	-	<0.02	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02
Parma Creek	Receptor	SW014	0026_SW14_200226	26 Feb 2020	Normal	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	<0.02	<0.02	-	<0.02	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02
Parma Creek	Receptor	SW014	0026_SW014_200520	20 May 2020	Normal	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	<0.02	<0.02	-	<0.02	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02
Parma Creek	Receptor	SW014	0026_QC200_140720	14 Jul 2020	Interlab_D	<0.01	<0.01	<0.01	<0.02	-	-	-	-	<0.01	<0.01	-	<0.01	-	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01
Parma Creek	Receptor	SW014	0026_SW014_200714	14 Jul 2020	Normal	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	<0.02	<0.02	-	<0.02	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02
Parma Creek	Receptor	SW014	0026_QC203_200826	26 Aug 2020	Interlab_D	0.03	0.03	<0.01	0.06	0.06	-	0.03	-	<0.01	<0.02	-	<0.01	-	<0.01	<0.02	<0.02	<0.05	<0.01	<0.01
Parma Creek	Receptor	SW014	0026_SW014_200826	26 Aug 2020	Normal	0.03	0.04	<0.01	0.07	0.07	0.07	-	-	<0.02	<0.02	-	<0.02	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02
Parma Creek	Receptor	SW014	0026_SW014_201102	02 Nov 2020	Normal	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	<0.02	<0.02	-	<0.02	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02
Parma Creek	Receptor	SW014	0026_SW014_210208	08 Feb 2021	Normal	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	<0.02	<0.02	-	<0.02	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02
Parma Creek	Receptor	SW014	0026_QC201_210811	11 Aug 2021	Interlab_D	0.14	0.14	<0.01	0.28	-	-	-	-	0.019	<0.01	-	<0.01	-	0.016	<0.05	<0.01	<0.01	<0.01	0.028
Parma Creek	Receptor	SW014	0026_SW014_210811	11 Aug 2021	Normal	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	<0.02	<0.02	-	<0.02	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02
Parma Creek	Receptor	SW014	0026_SW014_220208	08 Feb 2022	Normal	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	<0.02	<0.02	-	<0.02	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02
Parma Creek	Receptor	SW014	0026_SW014_220815	15 Aug 2022	Normal	<0.01	<0.01	<0.01	0.01	0.01	0.01	-	-	<0.02	<0.02	-	<0.02	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02
Parma Creek	Receptor	SW014	0026_SW014_230215	15 Feb 2023	Normal	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	<0.02	<0.02	-	<0.02	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02
Parma Creek	Receptor	SW014	0026_SW014_230816	16 Aug 2023	Normal	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	<0.02	<0.02	-	<0.02	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02
Parma Creek	Receptor	SW014	0026_SW014_240213	13 Feb 2024	Normal	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	<0.02	<0.02	-	<0.02	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02
Parma Creek	Receptor	SW014	0026_QC101_240822	26 Aug 2024	Field_D	0.06	0.04	<0.01	0.10	0.10	0.10	-	-	<0.02	<0.02	-	<0.02	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02
Parma Creek	Receptor	SW014	0026_QC201_240826	26 Aug 2024	Interlab_D	0.06	0.06	<0.01	0.12	0.13	0.13	0.06	0.12	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	0.01
Parma Creek	Receptor	SW014	0026_SW014_240822	26 Aug 2024	Normal	0.06	0.05	<0.01	0.11	0.11	0.11	-	-	<0.02	<0.02	-	<0.02	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02
Parma Creek	Receptor	SW014	0026_SW014_250213	13 Feb 2025	Normal	0.33	0.29	<0.01	0.62	0.72	0.69	-	-	0.03	<0.02	-	<0.02	-	0.03	<0.1	<0.02	<0.02	<0.02	0.04
Parma Creek	Receptor	SW014	0026_SW014_250828	28 Aug 2025	Normal	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	<0.02	<0.02	-	<0.02	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02
Upper Currumbene Creek	Pathway	SW049	0026_SW49_160506	06 May 2016	Normal	0.07 ^{#2}	0.06 ^{#2}	0.02 ^{#2}	0.13	-	-	-	-	<0.01	<0.01	-	-	-	-	<0.05	<0.01	<0.01	0.01	0.03 ^{#2}
Upper Currumbene Creek	Pathway	SW049	0026_SW049_250212	12 Feb 2025	Normal	0.81	0.46	0.02	1.27	1.58	1.52	-	-	0.06	<0.02	-	<0.02	-	0.04	<0.1	<0.02	<0.02	<0.02	0.12
Upper Currumbene Creek	Pathway	SW049	0026_SW049_250704	04 Jul 2025	Normal	0.61	0.47	0.02	1.08	1.28	1.23	-	-	0.05	<0.02	-	<0.02	-	0.05	<0.1	<0.02	<0.02	<0.02	0.08
Upper Currumbene Creek	Pathway	SW049	0026_SW049_250828	28 Aug 2025	Normal	1.45	1.50	0.08	2.95	3.89	3.55	-	-	0.14	<0.02	-	0.06	-	0.22	<0.1	<0.02	<0.02	0.04	0.30
Upper Currumbene Creek	Pathway	SW185	0026_SW185_250704	04 Jul 2025	Normal	0.60	0.45	0.03	1.05	1.30	1.22	-	-	0.05	<0.02	-	0.02	-	0.06	<0.1	<0.02	<0.02	<0.02	0.09
Upper Currumbene Creek	Pathway	SW185	0026_SW185_250828	28 Aug 2025	Normal	1.16	1.50	0.08	2.66	3.62	3.30	-	-	0.16	<0.02	-	0.05	-	0.21	<0.1	<0.02	<0.02	0.04	0.32
Yerriyong Gully	Source	SW009	0026_SW09_161115	15 Nov 2016	Normal	3.5 ^{#1}	0.95 ^{#1}	0.06 ^{#1}	4.75	-	-	-	-	0.09	<0.01	-	-	-	-	<0.05	<0.01	<0.01	0.02 ^{#1}	0.29 ^{#1}
Yerriyong Gully	Source	SW009	0026_SW09_161116	16 Nov 2016	Normal	3.7 ^{#1}	1.0 ^{#1}	0.07 ^{#1}	4.7	-	-	-	-	0.10	<0.01	-	-	-	-	<0.05	<0.01	<0.01	0.03 ^{#1}	0.29 ^{#1}
Yerriyong Gully	Source	SW009	0026_SW09_161212	12 Dec 2016	Normal	3.2 ^{#1}	0.73 ^{#1}	0.05 ^{#1}	3.93	-	-	-	-	0.06	<0.01	-	-	-	-	<0.05	<0.01	<0.01	0.02 ^{#1}	0.17 ^{#1}
Yerriyong Gully	Source	SW009	0026_SW09_161216	16 Dec 2016	Normal	25 ^{#1}	5.3 ^{#1}	0.52 ^{#1}	30.3	-	-	-	-	0.84	<0.01	-	-	-	-	0.27	<0.01	<0.01	0.16 ^{#1}	2.0 ^{#1}
Yerriyong Gully	Source	SW009	0026_SW09_170209	09 Feb 2017	Normal	23 ^{#1}	5.1 ^{#1}	0.51 ^{#1}	28.1	-	-	-	-	0.63	<0.01	-	-	-	-	0.29	<0.01	<0.01	0.12 ^{#1}	2.1 ^{#1}
Yerriyong Gully	Source	SW009	0026_SW09_191211	10 Dec 2019	Normal	1.34	1.00	0.03	2.34	2.92	2.81	-	-	0.15	<0.02	-	0.04	-	0.07	<0.1	<0.02	<0.02	0.02	0.24
Yerriyong Gully	Source	SW009	0026_SW09_200211	11 Feb 2020	Normal	25.4	8.95	0.35	34.4	38.0	37.0	-	-	0.42	0.04	-	0.36	-	0.57	0.1	<0.02	<0.02	0.13	1.39
Yerriyong Gully	Source	SW009	0026_SW09_200226	26 Feb 2020	Normal	16.9	7.07	0.30	24.0	27.2	26.4	-	-	0.41	<0.02	-	0.29	-	0.51	<0.1	<0.02	<0.02	0.13	1.28
Yerriyong Gully	Source	SW009	0026_SW09_200520	20 May 2020	Normal	7.94	2.33	0.42	9.37	11.2	10.9	-	-	0.25	<0.02	-	0.14	-	0.18	<0.1	0.02	<0.02	0.09	0.54
Yerriyong Gully	Source	SW009	0026_SW09_200714	14 Jul 2020	Normal	2.56	1.33	0.07	3.89	5.12	4.94	-	-	0.12	<0.02	-	0.07	-	0.11	<0.1	<0.02	<0.02	0.06	0.41
Yerriyong Gully	Source	SW009	0026_SW09_200826	26 Aug 2020	Normal	15.8	7.60	0.28	23.4	26.9	25.9	-	-	0.42	<0.02	-	0.35	-	0.66	0.1	<0.02	<0.02	0.13	1.31
Yerriyong Gully	Source	SW009	0026_SW09_201102	02 Nov 2020	Normal	12.7	4.57	0.19	17.3	19.4	18.9	-	-	0.33	0.02	-	0.19	-	0.29	<0.1	<0.02	<0.02	0.09	0.87
Yerriyong Gully	Source	SW009	0026_SW09_210208	08 Feb 2021	Normal	6.96	2.08	0.16	8.74	10.5	10.2	-	-	0.27	<0.02	-	0.12	-	0.26	<0.1	<0.02	<0.02	0.12	0.73
Yerriyong Gully	Source	SW009	0026_QC100_210811	11 Aug 2021	Field_D	1.92	1.56	0.07	3.48	4.42	4.19	-	-	0.17	<0.02	-	0.07	-	0.16	<0.1	<0.02	<0.02	0.05	0.35
Yerriyong Gully	Source	SW009	0026_SW09_210811	11 Aug 2021	Normal	2.03	1.61	0.07	3.64	4.57	4.35	-	-	0.17	<0.02	-	0.06	-	0.16	<0.1	<0.02	<0.02	0.04	0.35
Yerriyong Gully	Source	SW009	0026_SW09_220209	09 Feb 2022	Normal	11.8	4.78	0.19	16.6	20.5	19.8	-	-	0.32	0.03	-	0.22	-	0.41	0.1	<0.02			

	PFAS				PFAS - Sums														P
	Perfluorooctane sulfonic acid (PFOS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluorodecanoic acid (PFDA)	Sum of PFHxS and PFOS	PFAS (Sum of Total)	PFAS (Sum of Total)(WA DER List)	Sum of US EPA PFAS (PFOS + PFOA)*	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	Perfluorobutane sulfonic acid (PFBS)	Perfluorodecane sulfonic acid (PFDS)	Perfluorononane sulfonate (PFNS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorobutanoic acid (PFBA)	Perfluorodecanoic acid (PFDA)	Perfluorododecanoic acid (PFDDA)	Perfluoroheptanoic acid (PFHpA)	Perfluorohexanoic acid (PFHxA)	
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	
EQL	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.01	0.01	0.01	
PFAS NEMP 3.0 2025 Freshwater 99%	0.00023		19											0.02					
PFAS NEMP 3.0 2025 Recreational water quality	2	2	10	2															

Catchment	SPR Type	Location	Field ID	Date	Sample Type	PFOS	PFHxS	PFDA	Sum of PFHxS and PFOS	PFAS (Sum of Total)	PFAS (Sum of Total)(WA DER List)	Sum of US EPA PFAS (PFOS + PFOA)*	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	PFBS	PFDS	PFNS	PFHpS	PFPeS	PFBA	PFDA	PFDDA	PFHpA	PFHxA	
Yerriyong Gully	Pathway	SW012	0026_SW12_191210	10 Dec 2019	Normal	0.84	0.30	0.01	1.14	1.20	1.18	-	-	<0.02	<0.02	-	0.02	-	<0.02	<0.1	<0.02	<0.02	<0.02	0.03
Yerriyong Gully	Pathway	SW012	0026_QC100_200211	11 Feb 2020	Field_D	0.20	0.23	<0.01	0.43	0.47	0.45	-	-	0.02	<0.02	-	<0.02	-	0.02	<0.1	<0.02	<0.02	<0.02	<0.02
Yerriyong Gully	Pathway	SW012	0026_SW12_200211	11 Feb 2020	Normal	0.13	0.21	<0.01	0.34	0.36	0.36	-	-	0.02	<0.02	-	<0.02	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02
Yerriyong Gully	Pathway	SW012	0026_SW12_200226	26 Feb 2020	Normal	0.08	0.22	<0.01	0.30	0.36	0.36	-	-	0.03	<0.02	-	<0.02	-	<0.02	<0.1	<0.02	<0.02	<0.02	0.03
Yerriyong Gully	Pathway	SW012	0026_SW012_200714	14 Jul 2020	Normal	0.02	<0.02	<0.01	0.02	0.02	0.02	-	-	<0.02	<0.02	-	<0.02	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02
Yerriyong Gully	Pathway	SW012	0026_SW012_200826	26 Aug 2020	Normal	0.10	0.19	<0.01	0.29	0.34	0.31	-	-	0.02	<0.02	-	<0.02	-	0.03	<0.1	<0.02	<0.02	<0.02	<0.02
Yerriyong Gully	Pathway	SW012	0026_SW012_210208	08 Feb 2021	Normal	0.03	<0.02	<0.01	0.03	0.03	0.03	-	-	<0.02	<0.02	-	<0.02	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02
Yerriyong Gully	Pathway	SW012	0026_SW012_210811	11 Aug 2021	Normal	0.03	0.02	<0.01	0.05	0.05	0.05	-	-	<0.02	<0.02	-	<0.02	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02
Yerriyong Gully	Pathway	SW012	0026_SW012_220210	10 Feb 2022	Normal	1.18	1.43	0.06	2.61	3.44	3.21	-	-	0.18	<0.02	-	0.05	-	0.18	<0.1	<0.02	<0.02	0.04	0.26
Yerriyong Gully	Pathway	SW012	0026_SW012_220815	15 Aug 2022	Normal	3.25	3.15	0.13	6.40	8.13	7.60	-	-	0.35	<0.02	-	0.11	-	0.42	<0.1	<0.02	<0.02	0.08	0.54
Yerriyong Gully	Pathway	SW012	0026_QC202_230214	14 Feb 2023	Interlab_D	2.8	2.4	0.09	5.2	6.4	-	2.9	-	0.23	<0.02	-	0.11	-	0.24	0.05	<0.02	<0.05	0.07	0.36
Yerriyong Gully	Pathway	SW012	0026_SW012_230214	14 Feb 2023	Normal	2.70	1.74	0.07	4.44	5.46	5.16	-	-	0.20	<0.02	-	0.10	-	0.20	<0.1	<0.02	<0.02	0.05	0.31
Yerriyong Gully	Pathway	SW012	0026_SW012_230816	16 Aug 2023	Normal	3.79	3.87	0.17	7.66	9.60	9.09	-	-	0.37	<0.02	-	0.17	-	0.34	<0.1	<0.02	<0.02	0.11	0.60
Yerriyong Gully	Pathway	SW012	0026_QC100_240214	14 Feb 2024	Field_D	4.66	3.20	0.14	8.06	9.78	9.35	-	-	0.31	<0.02	-	0.13	-	0.30	<0.1	<0.02	<0.02	0.11	0.54
Yerriyong Gully	Pathway	SW012	0026_QC200_240214	14 Feb 2024	Interlab_D	3.9	3.1	0.12	6.9	8.6	-	4.0	-	0.25	<0.02	-	0.12	-	0.27	0.09	<0.02	<0.05	0.11	0.52
Yerriyong Gully	Pathway	SW012	0026_SW012_240214	14 Feb 2024	Normal	4.92	3.00	0.13	7.92	9.67	9.21	-	-	0.32	<0.02	-	0.15	-	0.31	<0.1	<0.02	<0.02	0.10	0.54
Yerriyong Gully	Pathway	SW012	0026_SW012_240822	22 Aug 2024	Normal	0.83	1.01	0.04	1.84	2.52	2.28	-	-	0.14	<0.02	-	0.04	-	0.14	<0.1	<0.02	<0.02	0.03	0.18
Yerriyong Gully	Pathway	SW012	0026_SW012_250212	12 Feb 2025	Normal	3.76	2.77	0.12	6.53	8.22	7.69	-	-	0.30	<0.02	-	0.12	-	0.26	<0.1	<0.02	<0.02	0.08	0.52
Yerriyong Gully	Pathway	SW012	0026_SW012_250828	28 Aug 2025	Normal	0.85	0.71	0.03	1.56	1.90	1.77	-	-	0.06	<0.02	-	0.03	-	0.07	<0.1	<0.02	<0.02	<0.02	0.10
Yerriyong Gully	Pathway	SW123	0026_QC100_250211	11 Feb 2025	Field_D	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	<0.02	<0.02	-	<0.02	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02
Yerriyong Gully	Pathway	SW123	0026_QC200_250111	11 Feb 2025	Interlab_D	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01
Yerriyong Gully	Pathway	SW123	0026_SW123_250211	11 Feb 2025	Normal	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	<0.02	<0.02	-	<0.02	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02
Yerriyong Gully	Pathway	SW123	0026_SW123_250828	28 Aug 2025	Normal	0.01	0.03	<0.01	0.04	0.04	0.04	-	-	<0.02	<0.02	-	<0.02	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02

Statistics	PFOS	PFHxS	PFDA	Sum of PFHxS and PFOS	PFAS (Sum of Total)	PFAS (Sum of Total)(WA DER List)	Sum of US EPA PFAS (PFOS + PFOA)*	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	PFBS	PFDS	PFNS	PFHpS	PFPeS	PFBA	PFDA	PFDDA	PFHpA	PFHxA
Number of Results	351	351	351	351	268	258	14	4	351	351	5	289	13	289	351	351	351	351
Number of Detects	327	314	253	328	250	240	13	3	256	13	3	187	11	211	55	4	1	206
Minimum Concentration	0.01	0.01	0.01	0.01	0.01	0.01	0.01	<0.01	<0.01	0.01	0.01	<0.01	<0.01	<0.01	<0.02	0.01	<0.01	0.01
Minimum Detect	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.12	0.019	0.01	0.01	0.015	0.02	0.016	0.04	0.01	0.04	0.01
Maximum Concentration	25.4	10	0.52	34.4	38	37	13	7.1	1.66	0.08	0.03	0.4	0.43	1.77	0.4	0.02	<0.05	0.46
Maximum Detect	25.4	10	0.52	34.4	38	37	13	7.1	1.66	0.08	0.03	0.4	0.43	1.77	0.4	0.02	0.04	0.46
Average Concentration *	2	1.4	0.072	3.4	4.4	4.1	2.2	2.1	0.15	0.0097	0.014	0.062	0.059	0.17	0.057	0.0089	0.0093	0.045
Geometric Average *	0.53	0.41	0.032	0.92	1.1	1.1	0.37	0.27	0.066	0.0088	0.011	0.033	0.029	0.07	0.049	0.0085	0.0087	0.025
Median Concentration *	1.03	0.95	0.04	2.2	2.705	2.525	0.74	0.665	0.1	0.01	0.01	0.04	0.03	0.11	0.05	0.01	0.01	0.02
Standard Deviation *	3.3	1.7	0.097	4.7	5.7	5.4	3.5	3.4	0.21	0.0066	0.011	0.076	0.11	0.25	0.045	0.0024	0.0038	0.061
Geometric Standard Deviation *	8.8	8.2	4	9.6	11	11	12	23	4.4	1.5	2.2	3.1	3	4.4	1.7	1.4	1.4	3
95% UCL (Student's-t) *	2.339	1.501	0.081	3.813	4.973	4.694	3.83	6.076	0.173	0.0103	0.0243	0.0691	0.115	0.193	0.0608	0.00907	0.0096	0.0508
Number of Env Standard Exceedances	351	74	0	183	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Env Standard Exceedances (Detects Only)	327	74	0	183	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% of Detects	93	89	72	93	93	93	93	75	73	4	60	65	85	73	16	1	0	59
% of Non-Detects	7	11	28	7	7	7	7	25	27	96	40	35	15	27	84	99	100	41
% of Detects at or above Env Standards	93	21	0	52	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% of Results Below Env Standards or Non-Detect	7	79	100	48	100	100	100	100	100	100	100	100	100	100	100	100	100	100

* A Non Detect Multiplier of 0.5 has been applied.

Comments
#1 Quantification of linear and branched isomers has been conducted as a single total response using the relative response factor for the corresponding linear/branched standard.
#2 Quantification of linear and branched isomers has been conducted as a single total response using the relative response factor for the corresponding linear standard.

Environmental Standards
HEPA, March 2025, PFAS NEMP 3.0 2025 Freshwater 99%
HEPA, March 2025, PFAS NEMP 3.0 2025 Recreational water quality

						FAS - Perfluoroalkyl Carboxylic Acids							PFAS - Perfluoroalkyl Sulfonamide							PFAS - Fluorotelomer Sulfonic Acids											
						Perfluorononanoic acid (PFNA)	Perfluorodecanoic acid (PFDA)	Perfluoroundecanoic acid (PFUdA)	Perfluorododecanoic acid (PFDDA)	Perfluorotridecanoic acid (PFTeDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluoropentadecanoic acid (PFPeA)	Perfluorohexadecanoic acid (PFHxDA)	N-Ethylperfluorooctane sulfonamide (EFOA)	N-Ethylperfluorodecane sulfonamide (EFOA)	N-Ethylperfluorododecane sulfonamide (EFOA)	N-Ethylperfluorotetradecane sulfonamide (EFOA)	N-Ethylperfluorohexadecane sulfonamide (EFOA)	N-Ethylperfluorooctadecane sulfonamide (EFOA)	N-Methylperfluorooctane sulfonamide (MeFOA)	N-Methylperfluorodecane sulfonamide (MeFOA)	N-Methylperfluorododecane sulfonamide (MeFOA)	N-Methylperfluorotetradecane sulfonamide (MeFOA)	N-Methylperfluorohexadecane sulfonamide (MeFOA)	N-Methylperfluorooctadecane sulfonamide (MeFOA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer sulfonate (6:2 FTS)	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)		
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	
EQL						0.01	0.01	0.01	0.01	0.01	0.05	0.02	0.02	0.01	0.05	0.02	0.01	0.05	0.01	0.05	0.01	0.05	0.01	0.05	0.01	0.01	0.01	0.01	0.01	0.01	
PFAS NEMP 3.0 2025 Freshwater 99%																															
PFAS NEMP 3.0 2025 Recreational water quality																															
Catchment	SPR Type	Location	Field ID	Date	Sample Type	Perfluorononanoic acid (PFNA)	Perfluorodecanoic acid (PFDA)	Perfluoroundecanoic acid (PFUdA)	Perfluorododecanoic acid (PFDDA)	Perfluorotridecanoic acid (PFTeDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluoropentadecanoic acid (PFPeA)	Perfluorohexadecanoic acid (PFHxDA)	N-Ethylperfluorooctane sulfonamide (EFOA)	N-Ethylperfluorodecane sulfonamide (EFOA)	N-Ethylperfluorododecane sulfonamide (EFOA)	N-Ethylperfluorotetradecane sulfonamide (EFOA)	N-Ethylperfluorohexadecane sulfonamide (EFOA)	N-Ethylperfluorooctadecane sulfonamide (EFOA)	N-Methylperfluorooctane sulfonamide (MeFOA)	N-Methylperfluorodecane sulfonamide (MeFOA)	N-Methylperfluorododecane sulfonamide (MeFOA)	N-Methylperfluorotetradecane sulfonamide (MeFOA)	N-Methylperfluorohexadecane sulfonamide (MeFOA)	N-Methylperfluorooctadecane sulfonamide (MeFOA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer sulfonate (6:2 FTS)	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)		
Braidwood Road Drain	Source	SW018	0026_SW18_161116	16 Nov 2016	Normal	<0.01	0.18 ^{#1}	<0.01	<0.01	<0.01	<0.01	-	-	<0.05	-	-	<0.05	-	-	<0.05	-	-	<0.05	-	<0.05	<0.01	<0.05	<0.01	-	-	
Braidwood Road Drain	Source	SW018	0026_QC173_161216	16 Dec 2016	Field_D	<0.01	0.06	<0.01	<0.01	<0.01	<0.01	-	-	<0.05	-	-	<0.05	-	-	<0.05	-	-	<0.05	-	<0.05	<0.01	0.89	<0.01	-	-	
Braidwood Road Drain	Source	SW018	0026_SW18_161216	16 Dec 2016	Normal	<0.01	0.06	<0.01	<0.01	<0.01	<0.01	-	-	<0.05	-	-	<0.05	-	-	<0.05	-	-	<0.05	-	<0.05	<0.01	0.90	<0.01	-	-	
Braidwood Road Drain	Source	SW018	0026_QC177_170208	08 Feb 2017	Field_D	<0.01	0.05 ^{#1}	<0.01	<0.01	<0.01	<0.01	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	0.05	<0.01	-	-	
Braidwood Road Drain	Source	SW018	0026_SW18_170208	08 Feb 2017	Normal	<0.01	0.04 ^{#1}	<0.01	<0.01	<0.01	<0.01	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	0.05	<0.01	-	-	
Braidwood Road Drain	Source	SW018	0026_SW18_200211	11 Feb 2020	Normal	<0.02	0.14	<0.05	<0.02	<0.02	<0.02	-	-	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Braidwood Road Drain	Source	SW018	0026_QC201_200226	26 Feb 2020	Interlab_D	<0.01	0.12	<0.02	<0.02	<0.02	<0.01	<0.05	<0.02	<0.02	<0.01	<0.05	<0.02	<0.05	<0.02	<0.01	<0.05	<0.05	<0.02	<0.05	<0.01	<0.01	0.015	<0.01	<0.01	<0.01	
Braidwood Road Drain	Source	SW018	0026_SW18_200226	26 Feb 2020	Normal	<0.02	0.14	<0.05	<0.02	<0.02	<0.02	-	-	<0.05	<0.02	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	
Braidwood Road Drain	Source	SW018	0026_SW018_200520	20 May 2020	Normal	0.03	0.69	<0.05	<0.02	<0.02	<0.02	-	-	<0.05	<0.02	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	
Braidwood Road Drain	Source	SW018	0026_SW018_200714	14 Jul 2020	Normal	<0.02	0.04	<0.05	<0.02	<0.02	<0.02	-	-	<0.05	<0.02	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	
Braidwood Road Drain	Source	SW018	0026_SW018_200826	26 Aug 2020	Normal	<0.02	0.08	<0.05	<0.02	<0.02	<0.02	-	-	<0.05	<0.02	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	
Braidwood Road Drain	Source	SW018	0026_SW018_201102	02 Nov 2020	Normal	<0.02	0.30	<0.05	<0.02	<0.02	<0.02	-	-	<0.05	<0.02	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	
Braidwood Road Drain	Source	SW018	0026_SW018_210211	11 Feb 2021	Normal	<0.02	0.21	<0.05	<0.02	<0.02	<0.02	-	-	<0.05	<0.02	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	
Braidwood Road Drain	Source	SW018	0026_SW018_210811	11 Aug 2021	Normal	<0.02	0.12	<0.05	<0.02	<0.02	<0.02	-	-	<0.05	<0.02	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	
Braidwood Road Drain	Source	SW018	0026_SW018_220207	07 Feb 2022	Normal	<0.02	0.18	<0.05	<0.02	<0.02	<0.02	-	-	<0.05	<0.02	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	
Braidwood Road Drain	Source	SW018	0026_QC100_220815	15 Aug 2022	Field_D	<0.02	0.06	<0.05	<0.02	<0.02	<0.02	-	-	<0.05	<0.02	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	
Braidwood Road Drain	Source	SW018	0026_SW018_220815	15 Aug 2022	Normal	<0.02	0.06	<0.05	<0.02	<0.02	<0.02	-	-	<0.05	<0.02	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	
Braidwood Road Drain	Source	SW018	0026_SW018_230213	13 Feb 2023	Normal	<0.02	0.22	<0.05	<0.02	<0.02	<0.02	-	-	<0.05	<0.02	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	
Braidwood Road Drain	Source	SW018	0026_SW018_230816	16 Aug 2023	Normal	<0.02	0.49	<0.05	<0.02	<0.02	<0.02	-	-	<0.05	<0.02	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	
Braidwood Road Drain	Source	SW018	0026_SW018_240214	14 Feb 2024	Normal	<0.02	0.09	<0.05	<0.02	<0.02	<0.02	-	-	<0.05	<0.02	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	
Braidwood Road Drain	Source	SW018	0026_SW018_240822	22 Aug 2024	Normal	<0.02	0.09	<0.05	<0.02	<0.02	<0.02	-	-	<0.05	<0.02	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	
Braidwood Road Drain	Source	SW018	0026_SW018_250212	12 Feb 2025	Normal	<0.02	0.29	<0.05	<0.02	<0.02	<0.02	-	-	<0.05	<0.02	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	
Braidwood Road Drain	Source	SW018	0026_SW018_250828	28 Aug 2025	Normal	<0.02	0.08	<0.05	<0.02	<0.02	<0.02	-	-	<0.05	<0.02	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	
Braidwood Road Drain	Pathway	SW007	0026_SW07_161214	14 Dec 2016	Normal	0.02	1.4	<0.01	<0.01	<0.01	<0.01	-	-	-	<0.05	-	-	-	<0.05	-	<0.05	-	-	<0.05	<0.01	2.3	<0.01	-	-	-	
Braidwood Road Drain	Pathway	SW007	0026_SW07_161216	16 Dec 2016	Normal	<0.01	0.03	<0.01	<0.01	<0.01	<0.01	-	-	<0.05	-	-	-	<0.05	-	<0.05	-	<0.05	-	-	<0.05	<0.01	0.12	<0.01	-	-	
Braidwood Road Drain	Pathway	SW007	0026_SW07_170208	08 Feb 2017	Normal	<0.01	0.05 ^{#1}	<0.01	<0.01	<0.01	<0.01	-	-	-	<0.05	-	-	-	<0.05	-	<0.05	-	-	<0.05	<0.01	0.14	<0.01	-	-	-	
Braidwood Road Drain	Pathway	SW007	0026_SW07_200211	11 Feb 2020	Normal	<0.02	0.04	<0.05	<0.02	<0.02	<0.02	-	-	<0.05	<0.02	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	
Braidwood Road Drain	Pathway	SW007	0026_SW07_200226	26 Feb 2020	Normal	<0.02	0.17	<0.05	<0.02	<0.02	<0.02	-	-	<0.05	<0.02	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	
Braidwood Road Drain	Pathway	SW007	0026_SW007_200520	20 May 2020	Normal	<0.02	0.04	<0.05	<0.02	<0.02	<0.02	-	-	<0.05	<0.02	<0.05	<0.05	<0.05	<0.02	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05	
Braidwood Road																															

		FAS - Perfluoroalkyl Carboxylic Acids								PFAS - Perfluoroalkyl Sulfonamide							PFAS - Fluorotelomer Sulfonic Acids				
		Perfluoronanoic acid (PFNA)	Perfluorodecanoic acid (PFPeA)	Perfluorotridecanoic acid (PFTeDA)	Perfluoroundecanoic acid (PFUnDA)	Perfluorododecanoic acid (PFODAA)	Perfluoro-n-hexadecanoic acid (PFHxDA)	N-Ethylperfluorooctane sulfonamide (EiFOA)	N-Ethylperfluorodecane sulfonamide (EiFOA)	N-Ethylperfluorododecane sulfonamide (EiFOA)	N-Ethylperfluorotetradecane sulfonamide (EiFOA)	N-Methylperfluorooctane sulfonamide (MeiFOA)	N-Methylperfluorodecane sulfonamide (MeiFOA)	N-Methylperfluorododecane sulfonamide (MeiFOA)	N-Methylperfluorotetradecane sulfonamide (MeiFOA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer sulfonate (6:2 FTS)	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)		
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L		
EQL		0.01	0.01	0.01	0.01	0.05	0.02	0.02	0.01	0.05	0.02	0.05	0.01	0.05	0.01	0.01	0.01	0.01	0.01		
PFAS NEMP 3.0 2025 Freshwater 99%																					
PFAS NEMP 3.0 2025 Recreational water quality																					

Catchment	SPR Type	Location	Field ID	Date	Sample Type	Perfluoronanoic acid (PFNA)	Perfluorodecanoic acid (PFPeA)	Perfluorotridecanoic acid (PFTeDA)	Perfluoroundecanoic acid (PFUnDA)	Perfluorododecanoic acid (PFODAA)	Perfluoro-n-hexadecanoic acid (PFHxDA)	N-Ethylperfluorooctane sulfonamide (EiFOA)	N-Ethylperfluorodecane sulfonamide (EiFOA)	N-Ethylperfluorododecane sulfonamide (EiFOA)	N-Ethylperfluorotetradecane sulfonamide (EiFOA)	N-Methylperfluorooctane sulfonamide (MeiFOA)	N-Methylperfluorodecane sulfonamide (MeiFOA)	N-Methylperfluorododecane sulfonamide (MeiFOA)	N-Methylperfluorotetradecane sulfonamide (MeiFOA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer sulfonate (6:2 FTS)	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)
Braidwood Road Drain	Pathway	SW020	0026_SW020_240822	22 Aug 2024	Normal	<0.02	0.04	<0.05	<0.02	<0.02	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05
Braidwood Road Drain	Pathway	SW020	0026_SW020_250211	11 Feb 2025	Normal	<0.02	0.02	<0.05	<0.02	<0.02	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05
Braidwood Road Drain	Pathway	SW020	0026_SW020_250828	28 Aug 2025	Normal	<0.02	0.02	<0.05	<0.02	<0.02	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05
Braidwood Road Drain	Pathway	SW124	0026_SW124_250212	12 Feb 2025	Normal	<0.02	0.07	<0.05	<0.02	<0.02	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05
Braidwood Road Drain	Pathway	SW124	0026_QC101_250828	28 Aug 2025	Field_D	<0.02	0.32	<0.05	<0.02	<0.02	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05
Braidwood Road Drain	Pathway	SW124	0026_QC201_250828	28 Aug 2025	Interlab_D	<0.01	0.24	<0.01	<0.01	<0.01	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01
Braidwood Road Drain	Pathway	SW124	0026_SW124_250828	28 Aug 2025	Normal	<0.02	0.28	<0.05	<0.02	<0.02	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05
Braidwood Road Drain	Receptor	SW005	0026_SW05_161114	14 Nov 2016	Normal	0.01	0.89	<0.01	<0.01	<0.01	-	<0.05	-	-	<0.05	-	-	<0.05	<0.01	21	0.02	-	-
Braidwood Road Drain	Receptor	SW005	0026_SW05_161212	12 Dec 2016	Normal	<0.01	0.24	<0.01	<0.01	<0.01	-	<0.05	-	-	<0.05	-	-	<0.05	<0.01	1.2	<0.01	-	-
Braidwood Road Drain	Receptor	SW005	0026_SW05_161217	17 Dec 2016	Normal	<0.01	<0.01	<0.01	<0.01	<0.01	-	<0.05	-	-	<0.05	-	-	<0.05	<0.01	<0.05	<0.01	-	-
Braidwood Road Drain	Receptor	SW005	0026_SW05_170209	09 Feb 2017	Normal	<0.01	0.11 ^{#1}	<0.01	<0.01	<0.01	-	-	<0.05	-	-	<0.05	-	-	<0.05	<0.01	0.17	<0.01	-
Braidwood Road Drain	Receptor	SW005	0026_SW05_170329	29 Mar 2017	Normal	<0.01	0.22 ^{#1}	<0.01	<0.01	<0.01	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	0.36	<0.01	<0.01
Braidwood Road Drain	Receptor	SW005	0026_SW05_191211	10 Dec 2019	Normal	<0.02	0.22	<0.05	<0.02	<0.02	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	0.09	<0.05	<0.05
Braidwood Road Drain	Receptor	SW005	0026_SW05_200211	11 Feb 2020	Normal	<0.02	0.12	<0.05	<0.02	<0.02	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05
Braidwood Road Drain	Receptor	SW005	0026_SW05_200226	26 Feb 2020	Normal	<0.02	0.26	<0.05	<0.02	<0.02	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05
Braidwood Road Drain	Receptor	SW005	0026_SW005_200520	20 May 2020	Normal	<0.02	0.31	<0.05	<0.02	<0.02	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05
Braidwood Road Drain	Receptor	SW005	0026_SW005_200714	14 Jul 2020	Normal	<0.02	0.19	<0.05	<0.02	<0.02	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05
Braidwood Road Drain	Receptor	SW005	0026_SW005_200827	27 Aug 2020	Normal	<0.02	0.16	<0.05	<0.02	<0.02	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05
Braidwood Road Drain	Receptor	SW005	0026_SW005_201102	02 Nov 2020	Normal	<0.02	0.18	<0.05	<0.02	<0.02	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05
Braidwood Road Drain	Receptor	SW005	0026_SW005_210209	09 Feb 2021	Normal	<0.02	0.13	<0.05	<0.02	<0.02	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05
Braidwood Road Drain	Receptor	SW005	0026_SW005_210811	11 Aug 2021	Normal	<0.02	0.47	<0.05	<0.02	<0.02	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05
Braidwood Road Drain	Receptor	SW005	0026_SW005_220208	08 Feb 2022	Normal	<0.02	0.12	<0.05	<0.02	<0.02	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05
Braidwood Road Drain	Receptor	SW005	0026_SW005_220815	15 Aug 2022	Normal	<0.02	0.18	<0.05	<0.02	<0.02	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05
Braidwood Road Drain	Receptor	SW005	0026_QC103_230215	15 Feb 2023	Field_D	<0.02	0.11	<0.05	<0.02	<0.02	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05
Braidwood Road Drain	Receptor	SW005	0026_SW005_230215	15 Feb 2023	Normal	<0.02	0.08	<0.05	<0.02	<0.02	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05
Braidwood Road Drain	Receptor	SW005	0026_QC101_230816	16 Aug 2023	Field_D	<0.02	0.11	<0.05	<0.02	<0.02	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05
Braidwood Road Drain	Receptor	SW005	0026_QC201_230816	16 Aug 2023	Interlab_D	<0.01	0.1	<0.5	<0.1	<0.02	-	<0.1	<0.02	<0.5	<0.05	<0.02	<0.05	<0.02	<0.05	<0.1	<0.01	<0.02	<0.02
Braidwood Road Drain	Receptor	SW005	0026_SW005_230816	16 Aug 2023	Normal	<0.02	0.11	<0.05	<0.02	<0.02	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05
Braidwood Road Drain	Receptor	SW005	0026_SW005_240213	13 Feb 2024	Normal	<0.02	0.13	<0.05	<0.02	<0.02	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05
Braidwood Road Drain	Receptor	SW005	0026_SW005_240822	22 Aug 2024	Normal	<0.02	0.12	<0.05	<0.02	<0.02	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05
Braidwood Road Drain	Receptor	SW005	0026_SW005_250211	11 Feb 2025	Normal	<0.02	0.10	<0.05	<0.02	<0.02	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05
Braidwood Road Drain	Receptor	SW005	0026_SW005_250828	28 Aug 2025	Normal	<0.02	0.07	<0.05	<0.02	<0.02	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05
Braidwood Road Drain	Receptor	SW006	0026_QC160_160502	02 May 2016	Field_D	<0.01	0.06 ^{#2}	<0.01	<0.01	<0.01	-	<0.05	-	-	<0.05	-	-	<0.05	<0.01	<0.05	<0.01	-	-
Braidwood Road Drain	Receptor	SW006	0026_SW06_160502	02 May 2016	Normal	<0.01	0.06 ^{#2}	<0.01	<0.01	<0.01	-	<0.05	-	-	<0.05	-	-	<0.05	<0.01	<0.05	0.01	-	-
Braidwood Road Drain	Receptor	SW006	0026_SW06_161031	31 Oct 2016	Normal	<0.01	0.31	<0.01	<0.01	<0.01	-	<0.05	-	-	<0.05	-	-	<0.05	<0.01	12	0.06	-	-
Braidwood Road Drain	Receptor	SW006	0026_SW06_161114	14 Nov 2016	Normal	<0.01	0.10	<0.01	<0.01	<0.01	-	<0.05	-	-	<0.05	-	-	<0.05	<0.01	3.1	0.08	-	-
Braidwood Road Drain	Receptor	SW006	0026_SW06_161212	12 Dec 2016	Normal	<0.01	0.33	<0.01	<0.01	<0.01	-	<0.05	-	-	<0.05	-	-	<0.05	<0.01	1.2	0.02	-	-
Braidwood Road Drain	Receptor	SW006	0026_SW06_161216	16 Dec 2016	Normal	<0.01	0.07	<0.01	<0.01	<0.01	-	<0.05	-	-	<0.05	-	-	<0.05	<0.01	0.80	0.01	-	-
Braidwood Road Drain	Receptor	SW006	0026_SW06_170209	09 Feb 2017	Normal	<0.01	0.13 ^{#1}	<0.01	<0.01	<0.01	-	-	<0.05	-	-	<0.05	-	-	<0.05	<0.01	0.19	<0.01	-
Braidwood Road Drain	Receptor	SW006	0026_SW06_191211	10 Dec 2019	Normal	<0.02	0.09	<0.05	<0.02	<0.02	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05
Braidwood Road Drain	Receptor	SW006	0026_SW06_200211	11 Feb 2020	Normal	<0.02	0.16	<0.05	<0.02	<0.02	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.05
Braidwood Road Drain	Receptor	SW006	0026_SW06_200226	26 Feb 2020	Normal	<0.02	0.18	<0.05	<0.02	<0.02	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	0.06	<0.05	<0.05	<0.05
Braidwood Road Drain	Receptor	SW006	0026_SW006_200520	20 May 2020	Normal	<0.02	0.16	<0.05	<0.02	<0.02													

						FAS - Perfluoroalkyl Carboxylic Acids							PFAS - Perfluoroalkyl Sulfonamide							PFAS - Fluorotelomer Sulfonic Acids			
						Perfluorooctanoic acid (PFNA)	Perfluoropentanoic acid (PFPeA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorodecanoic acid (PFTrDA)	Perfluoroundecanoic acid (PFUnDA)	Perfluorooctadecanoic acid (PFODA)	Perfluoro-n-hexadecanoic acid (PFHxDA)	N-Ethyl perfluorooctane sulfonamide (EiFOSA)	N-Ethyl perfluorodecane sulfonamide (EiFOSEA)	N-Ethyl perfluorododecane sulfonamide (EiFOSE)	N-Methyl perfluorooctane sulfonamide (MeiFOSA)	N-Methyl perfluorodecane sulfonamide (MeiFOSEA)	N-Methyl perfluorododecane sulfonamide (MeiFOSE)	Perfluorooctane sulfonamide (PFOSA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer Sulfonate (6:2 FTS)	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)
						µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL						0.01	0.01	0.01	0.01	0.01	0.05	0.02	0.01	0.05	0.02	0.01	0.05	0.01	0.01	0.01	0.01	0.01	
PFAS NEMP 3.0 2025 Freshwater 99%																							
PFAS NEMP 3.0 2025 Recreational water quality																							
Catchment	SPR Type	Location	Field ID	Date	Sample Type	<0.02	<0.02	<0.05	<0.02	<0.02	-	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05
Flat Rock Creek	Receptor	SW002	0026_SW002_201102	02 Nov 2020	Normal	<0.02	<0.02	<0.05	<0.02	<0.02	-	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05
Flat Rock Creek	Receptor	SW002	0026_QC201_210210	10 Feb 2021	Interlab_D	<0.01	<0.02	<0.02	<0.02	<0.01	<0.05	<0.02	<0.05	<0.01	<0.05	<0.02	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01
Flat Rock Creek	Receptor	SW002	0026_SW002_210210	10 Feb 2021	Normal	<0.02	<0.02	<0.05	<0.02	<0.02	-	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05
Flat Rock Creek	Receptor	SW002	0026_SW002_210811	11 Aug 2021	Normal	<0.02	<0.02	<0.05	<0.02	<0.02	-	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05
Flat Rock Creek	Receptor	SW002	0026_QC202_220208	08 Feb 2022	Interlab_D	<0.01	<0.02	<0.5	<0.1	<0.02	-	-	<0.1	<0.02	<0.5	<0.05	<0.02	<0.05	<0.1	<0.01	<0.01	<0.02	<0.02
Flat Rock Creek	Receptor	SW002	0026_SW002_220208	08 Feb 2022	Normal	<0.02	<0.02	<0.05	<0.02	<0.02	-	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05
Flat Rock Creek	Receptor	SW002	0026_SW002_220815	15 Aug 2022	Normal	<0.02	<0.02	<0.05	<0.02	<0.02	-	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05
Flat Rock Creek	Receptor	SW002	0026_QC203_230215	15 Feb 2023	Interlab_D	<0.01	<0.02	<0.5	<0.1	<0.02	-	-	<0.1	<0.02	<0.5	<0.05	<0.02	<0.05	<0.1	<0.01	<0.01	<0.02	<0.02
Flat Rock Creek	Receptor	SW002	0026_SW002_230215	15 Feb 2023	Normal	<0.02	<0.02	<0.05	<0.02	<0.02	-	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05
Flat Rock Creek	Receptor	SW002	0026_SW002_230816	16 Aug 2023	Normal	<0.02	<0.02	<0.05	<0.02	<0.02	-	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05
Flat Rock Creek	Receptor	SW002	0026_SW002_240213	13 Feb 2024	Normal	<0.02	<0.02	<0.05	<0.02	<0.02	-	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05
Flat Rock Creek	Receptor	SW002	0026_SW002_240822	22 Aug 2024	Normal	<0.02	<0.02	<0.05	<0.02	<0.02	-	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05
Flat Rock Creek	Receptor	SW002	0026_SW002_250211	11 Feb 2025	Normal	<0.02	<0.02	<0.05	<0.02	<0.02	-	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05
Flat Rock Creek	Receptor	SW002	0026_SW002_250828	28 Aug 2025	Normal	<0.02	<0.02	<0.05	<0.02	<0.02	-	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05
Lower Calymea Creek	Receptor	SW004B	0026_SW04B_191211	10 Dec 2019	Normal	<0.02	<0.02	<0.05	<0.02	<0.02	-	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05
Lower Calymea Creek	Receptor	SW004B	0026_SW04B_200211	11 Feb 2020	Normal	<0.02	0.04	<0.05	<0.02	<0.02	-	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05
Lower Calymea Creek	Receptor	SW004B	0026_SW04B_200226	26 Feb 2020	Normal	<0.02	0.03	<0.05	<0.02	<0.02	-	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05
Lower Calymea Creek	Receptor	SW004B	0026_SW04B_200520	20 May 2020	Normal	<0.02	0.07	<0.05	<0.02	<0.02	-	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05
Lower Calymea Creek	Receptor	SW004B	0026_SW004B_200714	14 Jul 2020	Normal	<0.02	0.04	<0.05	<0.02	<0.02	-	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05
Lower Calymea Creek	Receptor	SW004B	0026_QC204_200827	27 Aug 2020	Interlab_D	<0.01	<0.02	<0.5	<0.1	<0.02	-	-	<0.1	<0.02	<0.5	<0.05	<0.02	<0.05	<0.1	<0.01	<0.01	<0.02	<0.02
Lower Calymea Creek	Receptor	SW004B	0026_SW04B_200827	27 Aug 2020	Normal	<0.02	<0.02	<0.05	<0.02	<0.02	-	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05
Lower Calymea Creek	Receptor	SW004B	0026_SW004B_201102	02 Nov 2020	Normal	<0.02	0.03	<0.05	<0.02	<0.02	-	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05
Lower Calymea Creek	Receptor	SW004B	0026_SW004B_210210	10 Feb 2021	Normal	<0.02	0.02	<0.05	<0.02	<0.02	-	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05
Lower Calymea Creek	Receptor	SW004B	0026_QC200_210811	11 Aug 2021	Interlab_D	<0.01	<0.02	<0.02	<0.02	<0.01	<0.05	<0.02	<0.01	<0.05	<0.02	<0.01	<0.05	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01
Lower Calymea Creek	Receptor	SW004B	0026_SW004B_210811	11 Aug 2021	Normal	<0.02	<0.02	<0.05	<0.02	<0.02	-	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05
Lower Calymea Creek	Receptor	SW004B	0026_SW004B_220208	08 Feb 2022	Normal	<0.02	<0.02	<0.05	<0.02	<0.02	-	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05
Lower Calymea Creek	Receptor	SW004B	0026_SW004B_220815	15 Aug 2022	Normal	<0.02	<0.02	<0.05	<0.02	<0.02	-	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05
Lower Calymea Creek	Receptor	SW004B	0026_SW004B_230215	15 Feb 2023	Normal	<0.02	<0.02	<0.05	<0.02	<0.02	-	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05
Lower Calymea Creek	Receptor	SW004B	0026_SW004B_230816	16 Aug 2023	Normal	<0.02	0.05	<0.05	<0.02	<0.02	-	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05
Lower Calymea Creek	Receptor	SW004B	0026_SW004B_240213	13 Feb 2024	Normal	<0.02	<0.02	<0.05	<0.02	<0.02	-	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05
Lower Calymea Creek	Receptor	SW004B	0026_SW004B_240822	26 Aug 2024	Normal	<0.02	<0.02	<0.05	<0.02	<0.02	-	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05
Lower Calymea Creek	Receptor	SW004B	0026_SW004B_250211	11 Feb 2025	Normal	<0.02	0.02	<0.05	<0.02	<0.02	-	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05
Lower Calymea Creek	Receptor	SW004B	0026_SW004B_250828	28 Aug 2025	Normal	<0.02	<0.02	<0.05	<0.02	<0.02	-	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05
Parma Creek	Receptor	SW013	0026_SW13_161114	14 Nov 2016	Normal	<0.01	0.06 ^{#1}	<0.01	<0.01	<0.01	-	-	<0.05	-	-	<0.05	-	<0.05	<0.01	<0.05	<0.01	<0.05	<0.01
Parma Creek	Receptor	SW013	0026_SW13_161213	13 Dec 2016	Normal	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	-	<0.05	-	-	<0.05	-	<0.05	<0.01	<0.05	<0.01	-
Parma Creek	Receptor	SW013	0026_SW13_161216	16 Dec 2016	Normal	<0.01	0.04	<0.01	<0.01	<0.01	-	-	<0.05	-	-	<0.05	-	<0.05	<0.01	<0.05	<0.01	<0.05	<0.01
Parma Creek	Receptor	SW013	0026_SW13_170208	08 Feb 2017	Normal	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	-	<0.05	-	-	<0.05	-	<0.05	<0.01	<0.05	<0.01	-
Parma Creek	Receptor	SW013	0026_SW13_170328	28 Mar 2017	Normal	<0.01	0.07 ^{#1}	<0.01	<0.01	<0.01	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01
Parma Creek	Receptor	SW013	0026_QC200_191211	12 Nov 2019	Interlab_D	<0.01	0.13	<0.02	<0.02	<0.01	<0.05	<0.02	<0.01	<0.05	<0.02	<0.01	<0.05	<0.01	&				

EQL	FAS - Perfluoroalkyl Carboxylic Acids							PFAS - Perfluoroalkyl Sulfonamide							PFAS - Fluorotelomer Sulfonic Acids								
	Perfluoronanoic acid (PFNA)	Perfluorodecanoic acid (PFDA)	Perfluoroundecanoic acid (PFUnDA)	Perfluorododecanoic acid (PFDDA)	Perfluorotridecanoic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluoropentadecanoic acid (PFPeA)	Perfluorohexadecanoic acid (PFHxDA)	N-Ethylperfluorooctane sulfonamide (EFOA)	N-Ethylperfluorodecane sulfonamide (EFOSA)	N-Ethylperfluorododecane sulfonamide (EFDOSA)	N-Ethylperfluorotetradecane sulfonamide (EFTeOSA)	N-Ethylperfluorohexadecane sulfonamide (EFHxOSA)	N-Ethylperfluorooctadecane sulfonamide (EFOA)	Perfluorooctane sulfonamide (MeFOA)	Perfluorodecane sulfonamide (MeFOA)	Perfluorododecane sulfonamide (MeFOA)	Perfluorotetradecane sulfonamide (MeFOA)	Perfluorohexadecane sulfonamide (MeFOA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer sulfonate (6:2 FTS)	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
0.01	0.01	0.01	0.01	0.01	0.01	0.05	0.02	0.02	0.01	0.05	0.02	0.01	0.05	0.01	0.05	0.01	0.05	0.01	0.05	0.01	0.01	0.01	0.01
PFAS NEMP 3.0 2025 Freshwater 99%																							
PFAS NEMP 3.0 2025 Recreational water quality																							

Catchment	SPR Type	Location	Field ID	Date	Sample Type	Perfluoronanoic acid (PFNA)	Perfluorodecanoic acid (PFDA)	Perfluoroundecanoic acid (PFUnDA)	Perfluorododecanoic acid (PFDDA)	Perfluorotridecanoic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluoropentadecanoic acid (PFPeA)	Perfluorohexadecanoic acid (PFHxDA)	N-Ethylperfluorooctane sulfonamide (EFOA)	N-Ethylperfluorodecane sulfonamide (EFOSA)	N-Ethylperfluorododecane sulfonamide (EFDOSA)	N-Ethylperfluorotetradecane sulfonamide (EFTeOSA)	N-Ethylperfluorohexadecane sulfonamide (EFHxOSA)	N-Ethylperfluorooctadecane sulfonamide (EFOA)	Perfluorooctane sulfonamide (MeFOA)	Perfluorodecane sulfonamide (MeFOA)	Perfluorododecane sulfonamide (MeFOA)	Perfluorotetradecane sulfonamide (MeFOA)	Perfluorohexadecane sulfonamide (MeFOA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer sulfonate (6:2 FTS)	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	
Parma Creek	Receptor	SW014	0026_SW14_170208	08 Feb 2017	Normal	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	-	<0.05	-	-	<0.05	-	<0.05	<0.01	<0.05	<0.01	-	<0.01	<0.05	<0.01	<0.01	
Parma Creek	Receptor	SW014	0026_SW14_170328	28 Mar 2017	Normal	<0.01	0.01#1	<0.01	<0.01	<0.01	<0.01	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	
Parma Creek	Receptor	SW014	0026_SW14_191211	10 Dec 2019	Normal	<0.02	0.07	<0.05	<0.02	<0.02	<0.02	-	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	
Parma Creek	Receptor	SW014	0026_SW14_200211	11 Feb 2020	Normal	<0.02	<0.02	<0.05	<0.02	<0.02	<0.02	-	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	
Parma Creek	Receptor	SW014	0026_SW14_200226	26 Feb 2020	Normal	<0.02	<0.02	<0.05	<0.02	<0.02	<0.02	-	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	
Parma Creek	Receptor	SW014	0026_SW014_200520	20 May 2020	Normal	<0.02	<0.02	<0.05	<0.02	<0.02	<0.02	-	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	
Parma Creek	Receptor	SW014	0026_QC200_140720	14 Jul 2020	Interlab_D	<0.01	<0.02	<0.02	<0.02	<0.01	<0.05	<0.02	<0.02	<0.02	<0.01	<0.05	<0.02	<0.01	<0.05	<0.02	<0.01	<0.05	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	
Parma Creek	Receptor	SW014	0026_SW014_200714	14 Jul 2020	Normal	<0.02	<0.02	<0.05	<0.02	<0.02	<0.02	-	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	
Parma Creek	Receptor	SW014	0026_QC203_200826	26 Aug 2020	Interlab_D	<0.01	<0.02	<0.5	<0.1	<0.02	<0.02	-	-	<0.1	<0.02	<0.5	<0.05	<0.02	<0.05	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	
Parma Creek	Receptor	SW014	0026_SW014_200826	26 Aug 2020	Normal	<0.02	<0.02	<0.05	<0.02	<0.02	<0.02	-	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	
Parma Creek	Receptor	SW014	0026_SW014_201102	02 Nov 2020	Normal	<0.02	<0.02	<0.05	<0.02	<0.02	<0.02	-	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	
Parma Creek	Receptor	SW014	0026_SW014_210208	08 Feb 2021	Normal	<0.02	<0.02	<0.05	<0.02	<0.02	<0.02	-	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	
Parma Creek	Receptor	SW014	0026_QC201_210811	11 Aug 2021	Interlab_D	<0.01	<0.02	<0.02	<0.02	<0.01	<0.05	<0.02	<0.02	<0.02	<0.01	<0.05	<0.02	<0.01	<0.05	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Parma Creek	Receptor	SW014	0026_SW014_210811	11 Aug 2021	Normal	<0.02	<0.02	<0.05	<0.02	<0.02	<0.02	-	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	
Parma Creek	Receptor	SW014	0026_SW014_220208	08 Feb 2022	Normal	<0.02	<0.02	<0.05	<0.02	<0.02	<0.02	-	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	
Parma Creek	Receptor	SW014	0026_SW014_220815	15 Aug 2022	Normal	<0.02	<0.02	<0.05	<0.02	<0.02	<0.02	-	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	
Parma Creek	Receptor	SW014	0026_SW014_230215	15 Feb 2023	Normal	<0.02	<0.02	<0.05	<0.02	<0.02	<0.02	-	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	
Parma Creek	Receptor	SW014	0026_SW014_230816	16 Aug 2023	Normal	<0.02	<0.02	<0.05	<0.02	<0.02	<0.02	-	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	
Parma Creek	Receptor	SW014	0026_SW014_240213	13 Feb 2024	Normal	<0.02	<0.02	<0.05	<0.02	<0.02	<0.02	-	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	
Parma Creek	Receptor	SW014	0026_QC101_240822	26 Aug 2024	Field_D	<0.02	<0.02	<0.05	<0.02	<0.02	<0.02	-	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	
Parma Creek	Receptor	SW014	0026_QC201_240826	26 Aug 2024	Interlab_D	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	
Parma Creek	Receptor	SW014	0026_SW014_240822	26 Aug 2024	Normal	<0.02	<0.02	<0.05	<0.02	<0.02	<0.02	-	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	
Parma Creek	Receptor	SW014	0026_SW014_250213	13 Feb 2025	Normal	<0.02	<0.02	<0.05	<0.02	<0.02	<0.02	-	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	
Parma Creek	Receptor	SW014	0026_SW014_250828	28 Aug 2025	Normal	<0.02	<0.02	<0.05	<0.02	<0.02	<0.02	-	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	
Upper Currumbene Creek	Pathway	SW049	0026_SW49_160506	06 May 2016	Normal	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	-	-	<0.05	-	-	<0.05	-	<0.05	<0.01	<0.05	<0.01	<0.05	<0.01	<0.05	<0.01	<0.01	-	
Upper Currumbene Creek	Pathway	SW049	0026_SW049_250212	12 Feb 2025	Normal	<0.02	0.05	<0.05	<0.02	<0.02	<0.02	-	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	
Upper Currumbene Creek	Pathway	SW049	0026_SW049_250704	04 Jul 2025	Normal	<0.02	<0.02	<0.05	<0.02	<0.02	<0.02	-	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	
Upper Currumbene Creek	Pathway	SW049	0026_SW049_250828	28 Aug 2025	Normal	<0.02	0.04	<0.05	<0.02	<0.02	<0.02	-	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	
Upper Currumbene Creek	Pathway	SW185	0026_SW185_250704	04 Jul 2025	Normal	<0.02	<0.02	<0.05	<0.02	<0.02	<0.02	-	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	
Upper Currumbene Creek	Pathway	SW185	0026_SW185_250828	28 Aug 2025	Normal	<0.02	0.04	<0.05	<0.02	<0.02	<0.02	-	-	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	
Yerriyong Gully	Source	SW009	0026_SW09_161115	15 Nov 2016	Normal	<0.01	0.04#1</																						

Table with columns for PFAS - Perfluoroalkyl Carboxylic Acids, PFAS - Perfluoroalkyl Sulfonamide, and PFAS - Fluorotelomer Sulfonic Acids. Rows include EQI, PFAS NEMP 3.0 2025 Freshwater 99%, and PFAS NEMP 3.0 2025 Recreational water quality.

Main data table with columns: Catchment, SPR Type, Location, Field ID, Date, Sample Type, and 20 PFAS analytes. Rows list various sampling events at Yerrilyong Gully from Dec 2019 to Aug 2025.

Statistics table with 20 columns corresponding to PFAS analytes. Rows include summary statistics: Number of Results, Number of Detects, Minimum Concentration, Maximum Concentration, Average Concentration, Median Concentration, Standard Deviation, 95% UCL, and exceedance percentages.

* A Non Detect Multiplier of 0.5 has been applied.

Comments
#1 Quantification of linear and branched isomers has been conducted as a single total response using the relative response factor f
#2 Quantification of linear and branched isomers has been conducted as a single total response using the relative response factor f

Environmental Standards
HEPA, March 2025, PFAS NEMP 3.0 2025 Freshwater 99%
HEPA, March 2025, PFAS NEMP 3.0 2025 Recreational water quality

	PFAS - Unsaturated Fluorotelomer Acids	PFAS
	FOUEA (2H-Perfluoro- 2-decanoic acid (8:2))	8:2 Polyfluoroalkyl phosphate diester (6:2 dFPAP)
	µg/L	µg/L
EQL	0.01	0.02
PFAS NEMP 3.0 2025 Freshwater 99%		
PFAS NEMP 3.0 2025 Recreational water quality		

Catchment	SPR Type	Location	Field ID	Date	Sample Type		
Braidwood Road Drain	Source	SW018	0026_SW18_161116	16 Nov 2016	Normal	-	-
Braidwood Road Drain	Source	SW018	0026_QC173_161216	16 Dec 2016	Field_D	-	-
Braidwood Road Drain	Source	SW018	0026_SW18_161216	16 Dec 2016	Normal	-	-
Braidwood Road Drain	Source	SW018	0026_QC177_170208	08 Feb 2017	Field_D	-	-
Braidwood Road Drain	Source	SW018	0026_SW18_170208	08 Feb 2017	Normal	-	-
Braidwood Road Drain	Source	SW018	0026_SW18_200211	11 Feb 2020	Normal	-	-
Braidwood Road Drain	Source	SW018	0026_QC201_200226	26 Feb 2020	Interlab_D	<0.01	<0.02
Braidwood Road Drain	Source	SW018	0026_SW18_200226	26 Feb 2020	Normal	-	-
Braidwood Road Drain	Source	SW018	0026_SW018_200520	20 May 2020	Normal	-	-
Braidwood Road Drain	Source	SW018	0026_SW018_200714	14 Jul 2020	Normal	-	-
Braidwood Road Drain	Source	SW018	0026_SW018_200826	26 Aug 2020	Normal	-	-
Braidwood Road Drain	Source	SW018	0026_SW018_201102	02 Nov 2020	Normal	-	-
Braidwood Road Drain	Source	SW018	0026_SW018_210211	11 Feb 2021	Normal	-	-
Braidwood Road Drain	Source	SW018	0026_SW018_210811	11 Aug 2021	Normal	-	-
Braidwood Road Drain	Source	SW018	0026_SW018_220207	07 Feb 2022	Normal	-	-
Braidwood Road Drain	Source	SW018	0026_QC100_220815	15 Aug 2022	Field_D	-	-
Braidwood Road Drain	Source	SW018	0026_SW018_220815	15 Aug 2022	Normal	-	-
Braidwood Road Drain	Source	SW018	0026_SW018_230213	13 Feb 2023	Normal	-	-
Braidwood Road Drain	Source	SW018	0026_SW018_230816	16 Aug 2023	Normal	-	-
Braidwood Road Drain	Source	SW018	0026_SW018_240214	14 Feb 2024	Normal	-	-
Braidwood Road Drain	Source	SW018	0026_SW018_240822	22 Aug 2024	Normal	-	-
Braidwood Road Drain	Source	SW018	0026_SW018_250212	12 Feb 2025	Normal	-	-
Braidwood Road Drain	Source	SW018	0026_SW018_250828	28 Aug 2025	Normal	-	-
Braidwood Road Drain	Pathway	SW007	0026_SW07_161214	14 Dec 2016	Normal	-	-
Braidwood Road Drain	Pathway	SW007	0026_SW07_161216	16 Dec 2016	Normal	-	-
Braidwood Road Drain	Pathway	SW007	0026_SW07_170208	08 Feb 2017	Normal	-	-
Braidwood Road Drain	Pathway	SW007	0026_SW07_200211	11 Feb 2020	Normal	-	-
Braidwood Road Drain	Pathway	SW007	0026_SW07_200226	26 Feb 2020	Normal	-	-
Braidwood Road Drain	Pathway	SW007	0026_SW007_200520	20 May 2020	Normal	-	-
Braidwood Road Drain	Pathway	SW007	0026_SW007_200714	14 Jul 2020	Normal	-	-
Braidwood Road Drain	Pathway	SW007	0026_SW007_200826	26 Aug 2020	Normal	-	-
Braidwood Road Drain	Pathway	SW007	0026_QC100_201102	02 Nov 2020	Field_D	-	-
Braidwood Road Drain	Pathway	SW007	0026_SW007_201102	02 Nov 2020	Normal	-	-
Braidwood Road Drain	Pathway	SW007	0026_SW007_210211	11 Feb 2021	Normal	-	-
Braidwood Road Drain	Pathway	SW007	0026_SW007_210811	11 Aug 2021	Normal	-	-
Braidwood Road Drain	Pathway	SW007	0026_SW007_220207	07 Feb 2022	Normal	-	-
Braidwood Road Drain	Pathway	SW007	0026_QC101_220815	15 Aug 2022	Field_D	-	-
Braidwood Road Drain	Pathway	SW007	0026_SW007_220815	15 Aug 2022	Normal	-	-
Braidwood Road Drain	Pathway	SW007	0026_SW007_230213	13 Feb 2023	Normal	-	-
Braidwood Road Drain	Pathway	SW007	0026_SW007_230816	16 Aug 2023	Normal	-	-
Braidwood Road Drain	Pathway	SW007	0026_SW007_240214	14 Feb 2024	Normal	-	-
Braidwood Road Drain	Pathway	SW007	0026_SW007_240822	22 Aug 2024	Normal	-	-
Braidwood Road Drain	Pathway	SW007	0026_SW007_250212	12 Feb 2025	Normal	-	-
Braidwood Road Drain	Pathway	SW007	0026_QC100_250828	28 Aug 2025	Field_D	-	-
Braidwood Road Drain	Pathway	SW007	0026_QC200_250828	28 Aug 2025	Interlab_D	-	-
Braidwood Road Drain	Pathway	SW007	0026_SW007_250828	28 Aug 2025	Normal	-	-
Braidwood Road Drain	Pathway	SW020	0026_QC166_161212	12 Dec 2016	Field_D	-	-
Braidwood Road Drain	Pathway	SW020	0026_QC166_161212	12 Dec 2016	Field_D	-	-
Braidwood Road Drain	Pathway	SW020	0026_SW20_161212	12 Dec 2016	Normal	-	-
Braidwood Road Drain	Pathway	SW020	0026_SW20_161216	16 Dec 2016	Normal	-	-
Braidwood Road Drain	Pathway	SW020	0026_SW20_170209	09 Feb 2017	Normal	-	-
Braidwood Road Drain	Pathway	SW020	0026_SW20_200211	11 Feb 2020	Normal	-	-
Braidwood Road Drain	Pathway	SW020	0026_SW20_200226	26 Feb 2020	Normal	-	-
Braidwood Road Drain	Pathway	SW020	0026_QC200_200520	20 May 2020	Interlab_D	<0.01	<0.02
Braidwood Road Drain	Pathway	SW020	0026_SW020_200520	20 May 2020	Normal	-	-
Braidwood Road Drain	Pathway	SW020	0026_SW020_200714	14 Jul 2020	Normal	-	-
Braidwood Road Drain	Pathway	SW020	0026_SW020_200826	26 Aug 2020	Normal	-	-
Braidwood Road Drain	Pathway	SW020	0026_SW020_201102	02 Nov 2020	Normal	-	-
Braidwood Road Drain	Pathway	SW020	0026_SW020_210209	09 Feb 2021	Normal	-	-
Braidwood Road Drain	Pathway	SW020	0026_SW020_210811	11 Aug 2021	Normal	-	-
Braidwood Road Drain	Pathway	SW020	0026_SW020_220208	08 Feb 2022	Normal	-	-
Braidwood Road Drain	Pathway	SW020	0026_QC200_220815	15 Aug 2022	Interlab_D	-	-
Braidwood Road Drain	Pathway	SW020	0026_SW020_220815	15 Aug 2022	Normal	-	-
Braidwood Road Drain	Pathway	SW020	0026_SW020_230214	14 Feb 2023	Normal	-	-
Braidwood Road Drain	Pathway	SW020	0026_SW020_230816	16 Aug 2023	Normal	-	-
Braidwood Road Drain	Pathway	SW020	0026_SW020_240213	13 Feb 2024	Normal	-	-

	PFAS - Unsaturated Fluorotelomer Acids	PFAS
	FOUEA (2H-Perfluoro- 2-decanoic acid (8:2))	8:2 Polyfluoroalkyl phosphate diester (6:2 dFPAP)
	µg/L	µg/L
EQL	0.01	0.02
PFAS NEMP 3.0 2025 Freshwater 99%		
PFAS NEMP 3.0 2025 Recreational water quality		

Catchment	SPR Type	Location	Field ID	Date	Sample Type		
Braidwood Road Drain	Pathway	SW020	0026_SW020_240822	22 Aug 2024	Normal	-	-
Braidwood Road Drain	Pathway	SW020	0026_SW020_250211	11 Feb 2025	Normal	-	-
Braidwood Road Drain	Pathway	SW020	0026_SW020_250828	28 Aug 2025	Normal	-	-
Braidwood Road Drain	Pathway	SW124	0026_SW124_250212	12 Feb 2025	Normal	-	-
Braidwood Road Drain	Pathway	SW124	0026_QC101_250828	28 Aug 2025	Field_D	-	-
Braidwood Road Drain	Pathway	SW124	0026_QC201_250828	28 Aug 2025	Interlab_D	-	-
Braidwood Road Drain	Pathway	SW124	0026_SW124_250828	28 Aug 2025	Normal	-	-
Braidwood Road Drain	Receptor	SW005	0026_SW05_161114	14 Nov 2016	Normal	-	-
Braidwood Road Drain	Receptor	SW005	0026_SW05_161212	12 Dec 2016	Normal	-	-
Braidwood Road Drain	Receptor	SW005	0026_SW05_161217	17 Dec 2016	Normal	-	-
Braidwood Road Drain	Receptor	SW005	0026_SW05_170209	09 Feb 2017	Normal	-	-
Braidwood Road Drain	Receptor	SW005	0026_SW05_170329	29 Mar 2017	Normal	-	-
Braidwood Road Drain	Receptor	SW005	0026_SW05_191211	10 Dec 2019	Normal	-	-
Braidwood Road Drain	Receptor	SW005	0026_SW05_200211	11 Feb 2020	Normal	-	-
Braidwood Road Drain	Receptor	SW005	0026_SW05_200226	26 Feb 2020	Normal	-	-
Braidwood Road Drain	Receptor	SW005	0026_SW005_200520	20 May 2020	Normal	-	-
Braidwood Road Drain	Receptor	SW005	0026_SW005_200714	14 Jul 2020	Normal	-	-
Braidwood Road Drain	Receptor	SW005	0026_SW005_200827	27 Aug 2020	Normal	-	-
Braidwood Road Drain	Receptor	SW005	0026_SW005_201102	02 Nov 2020	Normal	-	-
Braidwood Road Drain	Receptor	SW005	0026_SW005_210209	09 Feb 2021	Normal	-	-
Braidwood Road Drain	Receptor	SW005	0026_SW005_210811	11 Aug 2021	Normal	-	-
Braidwood Road Drain	Receptor	SW005	0026_SW005_220208	08 Feb 2022	Normal	-	-
Braidwood Road Drain	Receptor	SW005	0026_SW005_220815	15 Aug 2022	Normal	-	-
Braidwood Road Drain	Receptor	SW005	0026_QC103_230215	15 Feb 2023	Field_D	-	-
Braidwood Road Drain	Receptor	SW005	0026_SW005_230215	15 Feb 2023	Normal	-	-
Braidwood Road Drain	Receptor	SW005	0026_QC101_230816	16 Aug 2023	Field_D	-	-
Braidwood Road Drain	Receptor	SW005	0026_QC201_230816	16 Aug 2023	Interlab_D	-	-
Braidwood Road Drain	Receptor	SW005	0026_SW005_230816	16 Aug 2023	Normal	-	-
Braidwood Road Drain	Receptor	SW005	0026_SW005_240213	13 Feb 2024	Normal	-	-
Braidwood Road Drain	Receptor	SW005	0026_SW005_240822	22 Aug 2024	Normal	-	-
Braidwood Road Drain	Receptor	SW005	0026_SW005_250211	11 Feb 2025	Normal	-	-
Braidwood Road Drain	Receptor	SW005	0026_SW005_250828	28 Aug 2025	Normal	-	-
Braidwood Road Drain	Receptor	SW006	0026_QC160_160502	02 May 2016	Field_D	-	-
Braidwood Road Drain	Receptor	SW006	0026_SW06_160502	02 May 2016	Normal	-	-
Braidwood Road Drain	Receptor	SW006	0026_SW06_161031	31 Oct 2016	Normal	-	-
Braidwood Road Drain	Receptor	SW006	0026_SW06_161114	14 Nov 2016	Normal	-	-
Braidwood Road Drain	Receptor	SW006	0026_SW06_161212	12 Dec 2016	Normal	-	-
Braidwood Road Drain	Receptor	SW006	0026_SW06_161216	16 Dec 2016	Normal	-	-
Braidwood Road Drain	Receptor	SW006	0026_SW06_170209	09 Feb 2017	Normal	-	-
Braidwood Road Drain	Receptor	SW006	0026_SW06_191211	10 Dec 2019	Normal	-	-
Braidwood Road Drain	Receptor	SW006	0026_SW06_200211	11 Feb 2020	Normal	-	-
Braidwood Road Drain	Receptor	SW006	0026_SW06_200226	26 Feb 2020	Normal	-	-
Braidwood Road Drain	Receptor	SW006	0026_SW006_200520	20 May 2020	Normal	-	-
Braidwood Road Drain	Receptor	SW006	0026_SW006_200714	14 Jul 2020	Normal	-	-
Braidwood Road Drain	Receptor	SW006	0026_SW006_200826	26 Aug 2020	Normal	-	-
Braidwood Road Drain	Receptor	SW006	0026_SW006_201102	02 Nov 2020	Normal	-	-
Braidwood Road Drain	Receptor	SW006	0026_SW006_210209	09 Feb 2021	Normal	-	-
Braidwood Road Drain	Receptor	SW006	0026_QC101_210811	11 Aug 2021	Field_D	-	-
Braidwood Road Drain	Receptor	SW006	0026_SW006_210811	11 Aug 2021	Normal	-	-
Braidwood Road Drain	Receptor	SW006	0026_SW006_220208	08 Feb 2022	Normal	-	-
Braidwood Road Drain	Receptor	SW006	0026_QC201_220815	15 Aug 2022	Interlab_D	-	-
Braidwood Road Drain	Receptor	SW006	0026_SW006_220815	15 Aug 2022	Normal	-	-
Braidwood Road Drain	Receptor	SW006	0026_SW006_230214	14 Feb 2023	Normal	-	-
Braidwood Road Drain	Receptor	SW006	0026_SW006_230816	16 Aug 2023	Normal	-	-
Braidwood Road Drain	Receptor	SW006	0026_SW006_240213	13 Feb 2024	Normal	-	-
Braidwood Road Drain	Receptor	SW006	0026_SW006_240822	22 Aug 2024	Normal	-	-
Braidwood Road Drain	Receptor	SW006	0026_SW006_250212	12 Feb 2025	Normal	-	-
Braidwood Road Drain	Receptor	SW006	0026_SW006_250828	28 Aug 2025	Normal	-	-
Cabbage Tree Creek	Receptor	SW001	0026_SW01_161115	15 Nov 2016	Normal	-	-
Cabbage Tree Creek	Receptor	SW001	0026_SW01_161213	13 Dec 2016	Normal	-	-
Cabbage Tree Creek	Receptor	SW001	0026_SW01_161217	17 Dec 2016	Normal	-	-
Cabbage Tree Creek	Receptor	SW001	0026_SW01_170209	09 Feb 2017	Normal	-	-
Cabbage Tree Creek	Receptor	SW001	0026_SW01_170330	30 Mar 2017	Normal	-	-
Cabbage Tree Creek	Receptor	SW001	0026_SW01_200211	11 Feb 2020	Normal	-	-
Cabbage Tree Creek	Receptor	SW001	0026_SW01_200226	26 Feb 2020	Normal	-	-

	PFAS - Unsaturated Fluorotelomer Acids	PFAS
	FOUEA (2H-Perfluoro- 2-decanoic acid (8:2))	8:2 Polyfluoroalkyl phosphate diester (6:2 dFPAP)
EQL	µg/L	µg/L
PFAS NEMP 3.0 2025 Freshwater 99%	0.01	0.02
PFAS NEMP 3.0 2025 Recreational water quality		

Catchment	SPR Type	Location	Field ID	Date	Sample Type		
Cabbage Tree Creek	Receptor	SW001	0026_SW001_200520	20 May 2020	Normal	-	-
Cabbage Tree Creek	Receptor	SW001	0026_SW001_200714	14 Jul 2020	Normal	-	-
Cabbage Tree Creek	Receptor	SW001	0026_SW001_200827	27 Aug 2020	Normal	-	-
Cabbage Tree Creek	Receptor	SW001	0026_SW001_201102	02 Nov 2020	Normal	-	-
Cabbage Tree Creek	Receptor	SW001	0026_QC101_210210	10 Feb 2021	Field_D	-	-
Cabbage Tree Creek	Receptor	SW001	0026_SW001_210210	10 Feb 2021	Normal	-	-
Cabbage Tree Creek	Receptor	SW001	0026_SW001_210811	11 Aug 2021	Normal	-	-
Cabbage Tree Creek	Receptor	SW001	0026_SW001_220208	08 Feb 2022	Normal	-	-
Cabbage Tree Creek	Receptor	SW001	0026_SW001_220815	15 Aug 2022	Normal	-	-
Cabbage Tree Creek	Receptor	SW001	0026_SW001_230215	15 Feb 2023	Normal	-	-
Cabbage Tree Creek	Receptor	SW001	0026_SW001_230816	16 Aug 2023	Normal	-	-
Cabbage Tree Creek	Receptor	SW001	0026_SW001_240213	13 Feb 2024	Normal	-	-
Cabbage Tree Creek	Receptor	SW001	0026_SW001_240822	22 Aug 2024	Normal	-	-
Cabbage Tree Creek	Receptor	SW001	0026_SW001_250211	11 Feb 2025	Normal	-	-
Cabbage Tree Creek	Receptor	SW187	0026_SW187_250828	28 Aug 2025	Normal	-	-
Currambene Creek	Pathway	SW008	0026_SW08_160506	06 May 2016	Normal	-	-
Currambene Creek	Pathway	SW008	0026_SW08_161116	16 Nov 2016	Normal	-	-
Currambene Creek	Pathway	SW008	0026_SW08_161214	14 Dec 2016	Normal	-	-
Currambene Creek	Pathway	SW008	0026_SW08_161217	17 Dec 2016	Normal	-	-
Currambene Creek	Pathway	SW008	0026_SW08_170209	09 Feb 2017	Normal	-	-
Currambene Creek	Pathway	SW008	0026_SW08_191210	10 Dec 2019	Normal	-	-
Currambene Creek	Pathway	SW008	0026_SW08_200211	11 Feb 2020	Normal	-	-
Currambene Creek	Pathway	SW008	0026_SW08_200226	26 Feb 2020	Normal	-	-
Currambene Creek	Pathway	SW008	0026_SW008_200520	20 May 2020	Normal	-	-
Currambene Creek	Pathway	SW008	0026_SW008_200714	14 Jul 2020	Normal	-	-
Currambene Creek	Pathway	SW008	0026_SW008_200826	26 Aug 2020	Normal	-	-
Currambene Creek	Pathway	SW008	0026_SW008_201102	02 Nov 2020	Normal	-	-
Currambene Creek	Pathway	SW008	0026_SW008_210208	08 Feb 2021	Normal	-	-
Currambene Creek	Pathway	SW008	0026_SW008_210811	11 Aug 2021	Normal	-	-
Currambene Creek	Pathway	SW008	0026_SW008_220210	10 Feb 2022	Normal	-	-
Currambene Creek	Pathway	SW008	0026_SW008_220815	15 Aug 2022	Normal	-	-
Currambene Creek	Pathway	SW008	0026_QC102_230214	14 Feb 2023	Field_D	-	-
Currambene Creek	Pathway	SW008	0026_SW008_230214	14 Feb 2023	Normal	-	-
Currambene Creek	Pathway	SW008	0026_SW008_230816	16 Aug 2023	Normal	-	-
Currambene Creek	Pathway	SW008	0026_SW008_240214	14 Feb 2024	Normal	-	-
Currambene Creek	Pathway	SW008	0026_SW008_240822	22 Aug 2024	Normal	-	-
Currambene Creek	Pathway	SW008	0026_SW008_250212	12 Feb 2025	Normal	-	-
Currambene Creek	Pathway	SW008	0026_SW008_250828	28 Aug 2025	Normal	-	-
Currambene Creek	Receptor	SW065	0026_SW65_021120	02 Nov 2020	Normal	-	-
Currambene Creek	Receptor	SW065	0026_SW65_271120	27 Nov 2020	Normal	-	-
Currambene Creek	Receptor	SW065	0026_SW65_271120_F	27 Nov 2020	Normal	-	-
Currambene Creek	Receptor	SW065	0026_SW65_151220	15 Dec 2020	Normal	-	-
Currambene Creek	Receptor	SW065	0026_SW65_110121	11 Jan 2021	Normal	-	-
Currambene Creek	Receptor	SW065	0026_SW65_080221	08 Feb 2021	Normal	-	-
Currambene Creek	Receptor	SW065	0026_SW65_080221_F	08 Feb 2021	Normal	-	-
Currambene Creek	Receptor	SW065	0026_SW65_170621	17 Jun 2021	Normal	-	-
Currambene Creek	Receptor	SW065	0026_SW65_250213	13 Feb 2025	Normal	-	-
Currambene Creek	Receptor	SW188	0026_SW188_250828	28 Aug 2025	Normal	-	-
Flat Rock Creek	Receptor	SW002	0026_QC164_161114	15 Nov 2016	Field_D	-	-
Flat Rock Creek	Receptor	SW002	0026_QC164_161114	15 Nov 2016	Field_D	-	-
Flat Rock Creek	Receptor	SW002	0026_QC244_161114	15 Nov 2016	Field_D	-	-
Flat Rock Creek	Receptor	SW002	0026_SW02_161115	15 Nov 2016	Normal	-	-
Flat Rock Creek	Receptor	SW002	0026_SW02_161213	13 Dec 2016	Normal	-	-
Flat Rock Creek	Receptor	SW002	0026_QC174_161217	17 Dec 2016	Field_D	-	-
Flat Rock Creek	Receptor	SW002	0026_QC248_161217	17 Dec 2016	Interlab_D	-	-
Flat Rock Creek	Receptor	SW002	0026_SW02_161217	17 Dec 2016	Normal	-	-
Flat Rock Creek	Receptor	SW002	0026_QC179_170209	09 Feb 2017	Field_D	-	-
Flat Rock Creek	Receptor	SW002	0026_SW02_170209	09 Feb 2017	Normal	-	-
Flat Rock Creek	Receptor	SW002	0026_SW02_170403	31 Mar 2017	Normal	-	-
Flat Rock Creek	Receptor	SW002	0026_SW02_200211	11 Feb 2020	Normal	-	-
Flat Rock Creek	Receptor	SW002	0026_SW02_200226	26 Feb 2020	Normal	-	-
Flat Rock Creek	Receptor	SW002	0026_SW002_200520	20 May 2020	Normal	-	-
Flat Rock Creek	Receptor	SW002	0026_SW002_200714	14 Jul 2020	Normal	-	-
Flat Rock Creek	Receptor	SW002	0026_QC104_200827	27 Aug 2020	Field_D	-	-
Flat Rock Creek	Receptor	SW002	0026_SW002_200827	27 Aug 2020	Normal	-	-

	PFAS - Unsaturated Fluorotelomer Acids	PFAS
	FOUEA (2H-Perfluoro- 2-decanoic acid (8:2))	8:2 Polyfluoroalkyl phosphate diester (6:2 dFPAP)
EQL	µg/L	µg/L
	0.01	0.02
PFAS NEMP 3.0 2025 Freshwater 99%		
PFAS NEMP 3.0 2025 Recreational water quality		

Catchment	SPR Type	Location	Field ID	Date	Sample Type		
Flat Rock Creek	Receptor	SW002	0026_SW002_201102	02 Nov 2020	Normal	-	-
Flat Rock Creek	Receptor	SW002	0026_QC201_210210	10 Feb 2021	Interlab_D	<0.01	<0.02
Flat Rock Creek	Receptor	SW002	0026_SW002_210210	10 Feb 2021	Normal	-	-
Flat Rock Creek	Receptor	SW002	0026_SW002_210811	11 Aug 2021	Normal	-	-
Flat Rock Creek	Receptor	SW002	0026_QC202_220208	08 Feb 2022	Interlab_D	-	-
Flat Rock Creek	Receptor	SW002	0026_SW002_220208	08 Feb 2022	Normal	-	-
Flat Rock Creek	Receptor	SW002	0026_SW002_220815	15 Aug 2022	Normal	-	-
Flat Rock Creek	Receptor	SW002	0026_QC203_230215	15 Feb 2023	Interlab_D	-	-
Flat Rock Creek	Receptor	SW002	0026_SW002_230215	15 Feb 2023	Normal	-	-
Flat Rock Creek	Receptor	SW002	0026_SW002_230816	16 Aug 2023	Normal	-	-
Flat Rock Creek	Receptor	SW002	0026_SW002_240213	13 Feb 2024	Normal	-	-
Flat Rock Creek	Receptor	SW002	0026_SW002_240822	22 Aug 2024	Normal	-	-
Flat Rock Creek	Receptor	SW002	0026_SW002_250211	11 Feb 2025	Normal	-	-
Flat Rock Creek	Receptor	SW002	0026_SW002_250828	28 Aug 2025	Normal	-	-
Lower Calymea Creek	Receptor	SW004B	0026_SW04B_191211	10 Dec 2019	Normal	-	-
Lower Calymea Creek	Receptor	SW004B	0026_SW04B_200211	11 Feb 2020	Normal	-	-
Lower Calymea Creek	Receptor	SW004B	0026_SW04B_200226	26 Feb 2020	Normal	-	-
Lower Calymea Creek	Receptor	SW004B	0026_SW04B_200520	20 May 2020	Normal	-	-
Lower Calymea Creek	Receptor	SW004B	0026_SW04B_200714	14 Jul 2020	Normal	-	-
Lower Calymea Creek	Receptor	SW004B	0026_QC204_200827	27 Aug 2020	Interlab_D	-	-
Lower Calymea Creek	Receptor	SW004B	0026_SW04B_200827	27 Aug 2020	Normal	-	-
Lower Calymea Creek	Receptor	SW004B	0026_SW004B_201102	02 Nov 2020	Normal	-	-
Lower Calymea Creek	Receptor	SW004B	0026_SW004B_210210	10 Feb 2021	Normal	-	-
Lower Calymea Creek	Receptor	SW004B	0026_QC200_210811	11 Aug 2021	Interlab_D	<0.01	<0.02
Lower Calymea Creek	Receptor	SW004B	0026_SW004B_210811	11 Aug 2021	Normal	-	-
Lower Calymea Creek	Receptor	SW004B	0026_SW004B_220208	08 Feb 2022	Normal	-	-
Lower Calymea Creek	Receptor	SW004B	0026_SW004B_220815	15 Aug 2022	Normal	-	-
Lower Calymea Creek	Receptor	SW004B	0026_SW004B_230215	15 Feb 2023	Normal	-	-
Lower Calymea Creek	Receptor	SW004B	0026_SW004B_230816	16 Aug 2023	Normal	-	-
Lower Calymea Creek	Receptor	SW004B	0026_SW004B_240213	13 Feb 2024	Normal	-	-
Lower Calymea Creek	Receptor	SW004B	0026_SW004B_240822	26 Aug 2024	Normal	-	-
Lower Calymea Creek	Receptor	SW004B	0026_SW004B_250211	11 Feb 2025	Normal	-	-
Lower Calymea Creek	Receptor	SW004B	0026_SW004B_250828	28 Aug 2025	Normal	-	-
Parma Creek	Receptor	SW013	0026_SW13_161114	14 Nov 2016	Normal	-	-
Parma Creek	Receptor	SW013	0026_SW13_161213	13 Dec 2016	Normal	-	-
Parma Creek	Receptor	SW013	0026_SW13_161216	16 Dec 2016	Normal	-	-
Parma Creek	Receptor	SW013	0026_SW13_170208	08 Feb 2017	Normal	-	-
Parma Creek	Receptor	SW013	0026_SW13_170328	28 Mar 2017	Normal	-	-
Parma Creek	Receptor	SW013	0026_QC200_191211	12 Nov 2019	Interlab_D	<0.01	<0.02
Parma Creek	Receptor	SW013	0026_SW13_191211	10 Dec 2019	Normal	-	-
Parma Creek	Receptor	SW013	0026_QC200_200211	11 Feb 2020	Interlab_D	<0.01	<0.02
Parma Creek	Receptor	SW013	0026_SW13_200211	11 Feb 2020	Normal	-	-
Parma Creek	Receptor	SW013	0026_QC101_200226	26 Feb 2020	Field_D	-	-
Parma Creek	Receptor	SW013	0026_SW13_200226	26 Feb 2020	Normal	-	-
Parma Creek	Receptor	SW013	0026_QC100_200520	20 May 2020	Field_D	-	-
Parma Creek	Receptor	SW013	0026_SW013_200520	20 May 2020	Normal	-	-
Parma Creek	Receptor	SW013	0026_QC100_200714	14 Jul 2020	Field_D	-	-
Parma Creek	Receptor	SW013	0026_SW013_200714	14 Jul 2020	Normal	-	-
Parma Creek	Receptor	SW013	0026_QC103_200826	26 Aug 2020	Field_D	-	-
Parma Creek	Receptor	SW013	0026_SW013_200826	26 Aug 2020	Normal	-	-
Parma Creek	Receptor	SW013	0026_QC200_201102	02 Nov 2020	Interlab_D	<0.01	<0.02
Parma Creek	Receptor	SW013	0026_SW013_201102	02 Nov 2020	Normal	-	-
Parma Creek	Receptor	SW013	0026_SW013_210208	08 Feb 2021	Normal	-	-
Parma Creek	Receptor	SW013	0026_SW013_210811	11 Aug 2021	Normal	-	-
Parma Creek	Receptor	SW013	0026_QC102_220208	08 Feb 2022	Field_D	-	-
Parma Creek	Receptor	SW013	0026_SW013_220208	08 Feb 2022	Normal	-	-
Parma Creek	Receptor	SW013	0026_SW013_220815	15 Aug 2022	Normal	-	-
Parma Creek	Receptor	SW013	0026_SW013_230215	15 Feb 2023	Normal	-	-
Parma Creek	Receptor	SW013	0026_SW013_230816	16 Aug 2023	Normal	-	-
Parma Creek	Receptor	SW013	0026_SW013_240213	13 Feb 2024	Normal	-	-
Parma Creek	Receptor	SW013	0026_SW013_240822	26 Aug 2024	Normal	-	-
Parma Creek	Receptor	SW013	0026_SW013_250213	13 Feb 2025	Normal	-	-
Parma Creek	Receptor	SW013	0026_SW013_250828	28 Aug 2025	Normal	-	-
Parma Creek	Receptor	SW014	0026_SW14_161114	14 Nov 2016	Normal	-	-
Parma Creek	Receptor	SW014	0026_SW14_161213	13 Dec 2016	Normal	-	-
Parma Creek	Receptor	SW014	0026_SW14_161216	16 Dec 2016	Normal	-	-

	PFAS - Unsaturated Fluorotelomer Acids	PFAS
	FOUEA (2H-Perfluoro- 2-decanoic acid (8:2))	8:2 Polyfluoroalkyl phosphate diester (6:2 dFPAP)
	µg/L	µg/L
EQL	0.01	0.02
PFAS NEMP 3.0 2025 Freshwater 99%		
PFAS NEMP 3.0 2025 Recreational water quality		

Catchment	SPR Type	Location	Field ID	Date	Sample Type		
Parma Creek	Receptor	SW014	0026_SW14_170208	08 Feb 2017	Normal	-	-
Parma Creek	Receptor	SW014	0026_SW14_170328	28 Mar 2017	Normal	-	-
Parma Creek	Receptor	SW014	0026_SW14_191211	10 Dec 2019	Normal	-	-
Parma Creek	Receptor	SW014	0026_SW14_200211	11 Feb 2020	Normal	-	-
Parma Creek	Receptor	SW014	0026_SW14_200226	26 Feb 2020	Normal	-	-
Parma Creek	Receptor	SW014	0026_SW014_200520	20 May 2020	Normal	-	-
Parma Creek	Receptor	SW014	0026_QC200_140720	14 Jul 2020	Interlab_D	<0.01	<0.02
Parma Creek	Receptor	SW014	0026_SW014_200714	14 Jul 2020	Normal	-	-
Parma Creek	Receptor	SW014	0026_QC203_200826	26 Aug 2020	Interlab_D	-	-
Parma Creek	Receptor	SW014	0026_SW014_200826	26 Aug 2020	Normal	-	-
Parma Creek	Receptor	SW014	0026_SW014_201102	02 Nov 2020	Normal	-	-
Parma Creek	Receptor	SW014	0026_SW014_210208	08 Feb 2021	Normal	-	-
Parma Creek	Receptor	SW014	0026_QC201_210811	11 Aug 2021	Interlab_D	<0.01	<0.02
Parma Creek	Receptor	SW014	0026_SW014_210811	11 Aug 2021	Normal	-	-
Parma Creek	Receptor	SW014	0026_SW014_220208	08 Feb 2022	Normal	-	-
Parma Creek	Receptor	SW014	0026_SW014_220815	15 Aug 2022	Normal	-	-
Parma Creek	Receptor	SW014	0026_SW014_230215	15 Feb 2023	Normal	-	-
Parma Creek	Receptor	SW014	0026_SW014_230816	16 Aug 2023	Normal	-	-
Parma Creek	Receptor	SW014	0026_SW014_240213	13 Feb 2024	Normal	-	-
Parma Creek	Receptor	SW014	0026_QC101_240822	26 Aug 2024	Field_D	-	-
Parma Creek	Receptor	SW014	0026_QC201_240826	26 Aug 2024	Interlab_D	-	-
Parma Creek	Receptor	SW014	0026_SW014_240822	26 Aug 2024	Normal	-	-
Parma Creek	Receptor	SW014	0026_SW014_250213	13 Feb 2025	Normal	-	-
Parma Creek	Receptor	SW014	0026_SW014_250828	28 Aug 2025	Normal	-	-
Upper Currumbene Creek	Pathway	SW049	0026_SW49_160506	06 May 2016	Normal	-	-
Upper Currumbene Creek	Pathway	SW049	0026_SW049_250212	12 Feb 2025	Normal	-	-
Upper Currumbene Creek	Pathway	SW049	0026_SW049_250704	04 Jul 2025	Normal	-	-
Upper Currumbene Creek	Pathway	SW049	0026_SW049_250828	28 Aug 2025	Normal	-	-
Upper Currumbene Creek	Pathway	SW185	0026_SW185_250704	04 Jul 2025	Normal	-	-
Upper Currumbene Creek	Pathway	SW185	0026_SW185_250828	28 Aug 2025	Normal	-	-
Yerriyong Gully	Source	SW009	0026_SW09_161115	15 Nov 2016	Normal	-	-
Yerriyong Gully	Source	SW009	0026_SW09_161116	16 Nov 2016	Normal	-	-
Yerriyong Gully	Source	SW009	0026_SW09_161212	12 Dec 2016	Normal	-	-
Yerriyong Gully	Source	SW009	0026_SW09_161216	16 Dec 2016	Normal	-	-
Yerriyong Gully	Source	SW009	0026_SW09_170209	09 Feb 2017	Normal	-	-
Yerriyong Gully	Source	SW009	0026_SW09_191211	10 Dec 2019	Normal	-	-
Yerriyong Gully	Source	SW009	0026_SW09_200211	11 Feb 2020	Normal	-	-
Yerriyong Gully	Source	SW009	0026_SW09_200226	26 Feb 2020	Normal	-	-
Yerriyong Gully	Source	SW009	0026_SW09_200520	20 May 2020	Normal	-	-
Yerriyong Gully	Source	SW009	0026_SW09_200714	14 Jul 2020	Normal	-	-
Yerriyong Gully	Source	SW009	0026_SW09_200826	26 Aug 2020	Normal	-	-
Yerriyong Gully	Source	SW009	0026_SW09_201102	02 Nov 2020	Normal	-	-
Yerriyong Gully	Source	SW009	0026_SW09_210208	08 Feb 2021	Normal	-	-
Yerriyong Gully	Source	SW009	0026_QC100_210811	11 Aug 2021	Field_D	-	-
Yerriyong Gully	Source	SW009	0026_SW09_210811	11 Aug 2021	Normal	-	-
Yerriyong Gully	Source	SW009	0026_SW09_220209	09 Feb 2022	Normal	-	-
Yerriyong Gully	Source	SW009	0026_SW09_220815	15 Aug 2022	Normal	-	-
Yerriyong Gully	Source	SW009	0026_SW09_230213	13 Feb 2023	Normal	-	-
Yerriyong Gully	Source	SW009	0026_QC100_230816	16 Aug 2023	Field_D	-	-
Yerriyong Gully	Source	SW009	0026_QC200_230816	16 Aug 2023	Interlab_D	-	-
Yerriyong Gully	Source	SW009	0026_SW09_230816	16 Aug 2023	Normal	-	-
Yerriyong Gully	Source	SW009	0026_SW09_240214	14 Feb 2024	Normal	-	-
Yerriyong Gully	Source	SW009	0026_QC100_240822	22 Aug 2024	Field_D	-	-
Yerriyong Gully	Source	SW009	0026_SW09_240822	22 Aug 2024	Normal	-	-
Yerriyong Gully	Source	SW009	0026_QC200_240822	26 Aug 2024	Interlab_D	-	-
Yerriyong Gully	Source	SW009	0026_SW09_250212	12 Feb 2025	Normal	-	-
Yerriyong Gully	Source	SW009	0026_SW09_250828	28 Aug 2025	Normal	-	-
Yerriyong Gully	Source	SW106	0026_SW106_250212	12 Feb 2025	Normal	-	-
Yerriyong Gully	Source	SW106	0026_SW106_250828	28 Aug 2025	Normal	-	-
Yerriyong Gully	Pathway	SW012	0026_SW12_160506	06 May 2016	Normal	-	-
Yerriyong Gully	Pathway	SW012	0026_SW12_161116	16 Nov 2016	Normal	-	-
Yerriyong Gully	Pathway	SW012	0026_QC171_161214	14 Dec 2016	Field_D	-	-
Yerriyong Gully	Pathway	SW012	0026_SW12_161214	14 Dec 2016	Normal	-	-
Yerriyong Gully	Pathway	SW012	0026_SW12_161217	17 Dec 2016	Normal	-	-
Yerriyong Gully	Pathway	SW012	0026_SW12_170209	09 Feb 2017	Normal	-	-
Yerriyong Gully	Pathway	SW012	0026_QC100_191210	10 Dec 2019	Field_D	-	-

	PFAS - Unsaturated Fluorotelomer Acids	PFAS
	FOUEA (2H-Perfluoro- 2-decanoic acid (8:2))	8:2 Polyfluoroalkyl phosphate diester (6:2 dFPAP)
	µg/L	µg/L
EQL	0.01	0.02
PFAS NEMP 3.0 2025 Freshwater 99%		
PFAS NEMP 3.0 2025 Recreational water quality		

Catchment	SPR Type	Location	Field ID	Date	Sample Type		
Yerriyong Gully	Pathway	SW012	0026_SW12_191210	10 Dec 2019	Normal	-	-
Yerriyong Gully	Pathway	SW012	0026_QC100_200211	11 Feb 2020	Field_D	-	-
Yerriyong Gully	Pathway	SW012	0026_SW12_200211	11 Feb 2020	Normal	-	-
Yerriyong Gully	Pathway	SW012	0026_SW12_200226	26 Feb 2020	Normal	-	-
Yerriyong Gully	Pathway	SW012	0026_SW012_200714	14 Jul 2020	Normal	-	-
Yerriyong Gully	Pathway	SW012	0026_SW012_200826	26 Aug 2020	Normal	-	-
Yerriyong Gully	Pathway	SW012	0026_SW012_210208	08 Feb 2021	Normal	-	-
Yerriyong Gully	Pathway	SW012	0026_SW012_210811	11 Aug 2021	Normal	-	-
Yerriyong Gully	Pathway	SW012	0026_SW012_220210	10 Feb 2022	Normal	-	-
Yerriyong Gully	Pathway	SW012	0026_SW012_220815	15 Aug 2022	Normal	-	-
Yerriyong Gully	Pathway	SW012	0026_QC202_230214	14 Feb 2023	Interlab_D	-	-
Yerriyong Gully	Pathway	SW012	0026_SW012_230214	14 Feb 2023	Normal	-	-
Yerriyong Gully	Pathway	SW012	0026_SW012_230816	16 Aug 2023	Normal	-	-
Yerriyong Gully	Pathway	SW012	0026_QC100_240214	14 Feb 2024	Field_D	-	-
Yerriyong Gully	Pathway	SW012	0026_QC200_240214	14 Feb 2024	Interlab_D	-	-
Yerriyong Gully	Pathway	SW012	0026_SW012_240214	14 Feb 2024	Normal	-	-
Yerriyong Gully	Pathway	SW012	0026_SW012_240822	22 Aug 2024	Normal	-	-
Yerriyong Gully	Pathway	SW012	0026_SW012_250212	12 Feb 2025	Normal	-	-
Yerriyong Gully	Pathway	SW012	0026_SW012_250828	28 Aug 2025	Normal	-	-
Yerriyong Gully	Pathway	SW123	0026_QC100_250211	11 Feb 2025	Field_D	-	-
Yerriyong Gully	Pathway	SW123	0026_QC200_25011	11 Feb 2025	Interlab_D	-	-
Yerriyong Gully	Pathway	SW123	0026_SW123_250211	11 Feb 2025	Normal	-	-
Yerriyong Gully	Pathway	SW123	0026_SW123_250828	28 Aug 2025	Normal	-	-

Statistics		
Number of Results	9	9
Number of Detects	0	0
Minimum Concentration	<0.01	<0.02
Minimum Detect	ND	ND
Maximum Concentration	<0.01	<0.02
Maximum Detect	ND	ND
Average Concentration *	0.005	0.01
Geometric Average *	0.005	0.01
Median Concentration *	0.005	0.01
Standard Deviation *	0	0
Geometric Standard Deviation *	1	1
95% UCL (Student's-t) *	0.005	0.01
Number of Env Standard Exceedances	0	0
Number of Env Standard Exceedances (Detects Only)	0	0
% of Detects	0	0
% of Non-Detects	100	100
% of Detects at or above Env Standards	0	0
% of Results Below Env Standards or Non-Detect	100	100

* A Non Detect Multiplier of 0.5 has been applied.

Comments

- #1 Quantification of linear and branched isomers has been conducted as a single total response using the relative response factor f
- #2 Quantification of linear and branched isomers has been conducted as a single total response using the relative response factor f

Environmental Standards

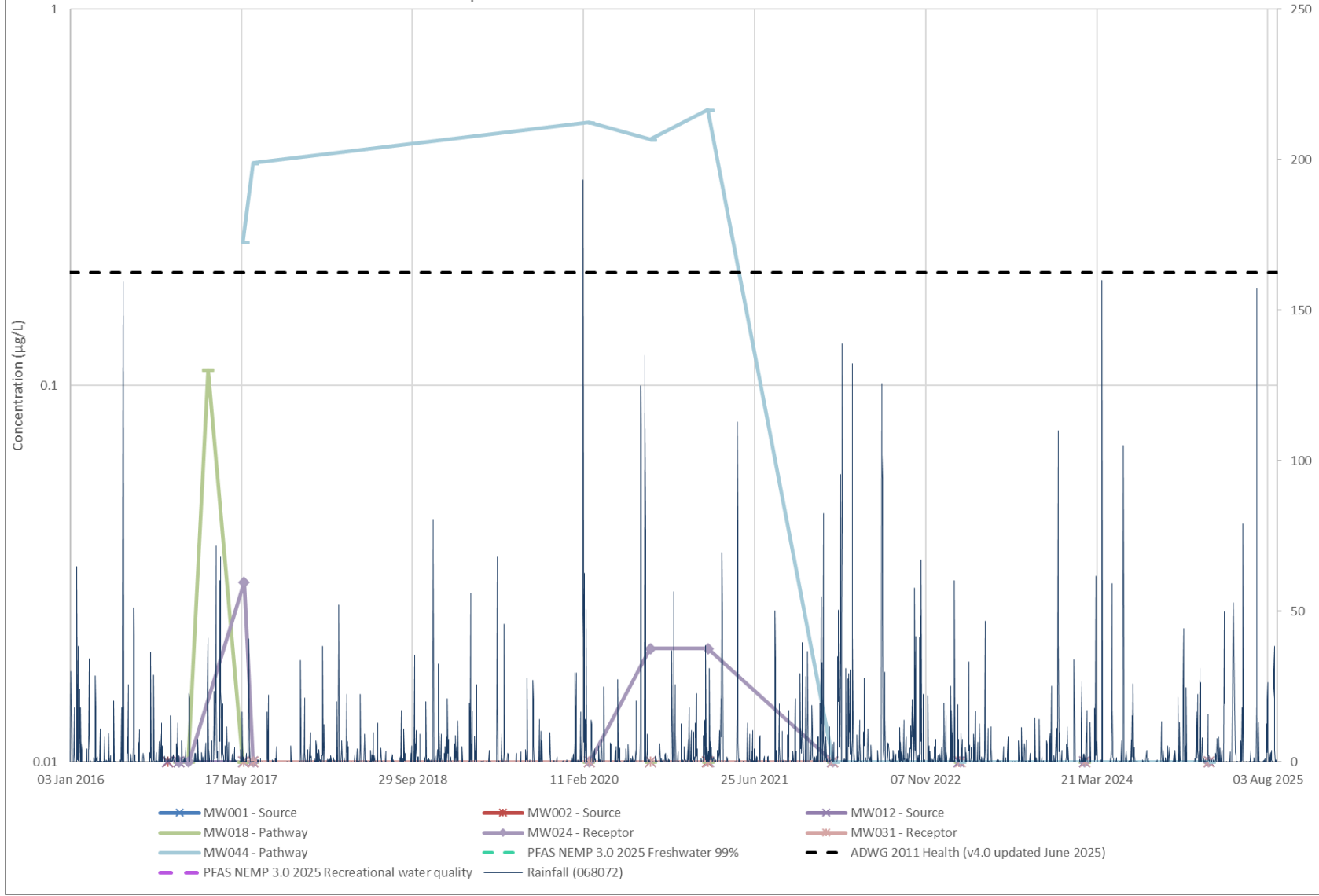
HEPA, March 2025, PFAS NEMP 3.0 2025 Freshwater 99%
HEPA, March 2025, PFAS NEMP 3.0 2025 Recreational water quality

Appendix D

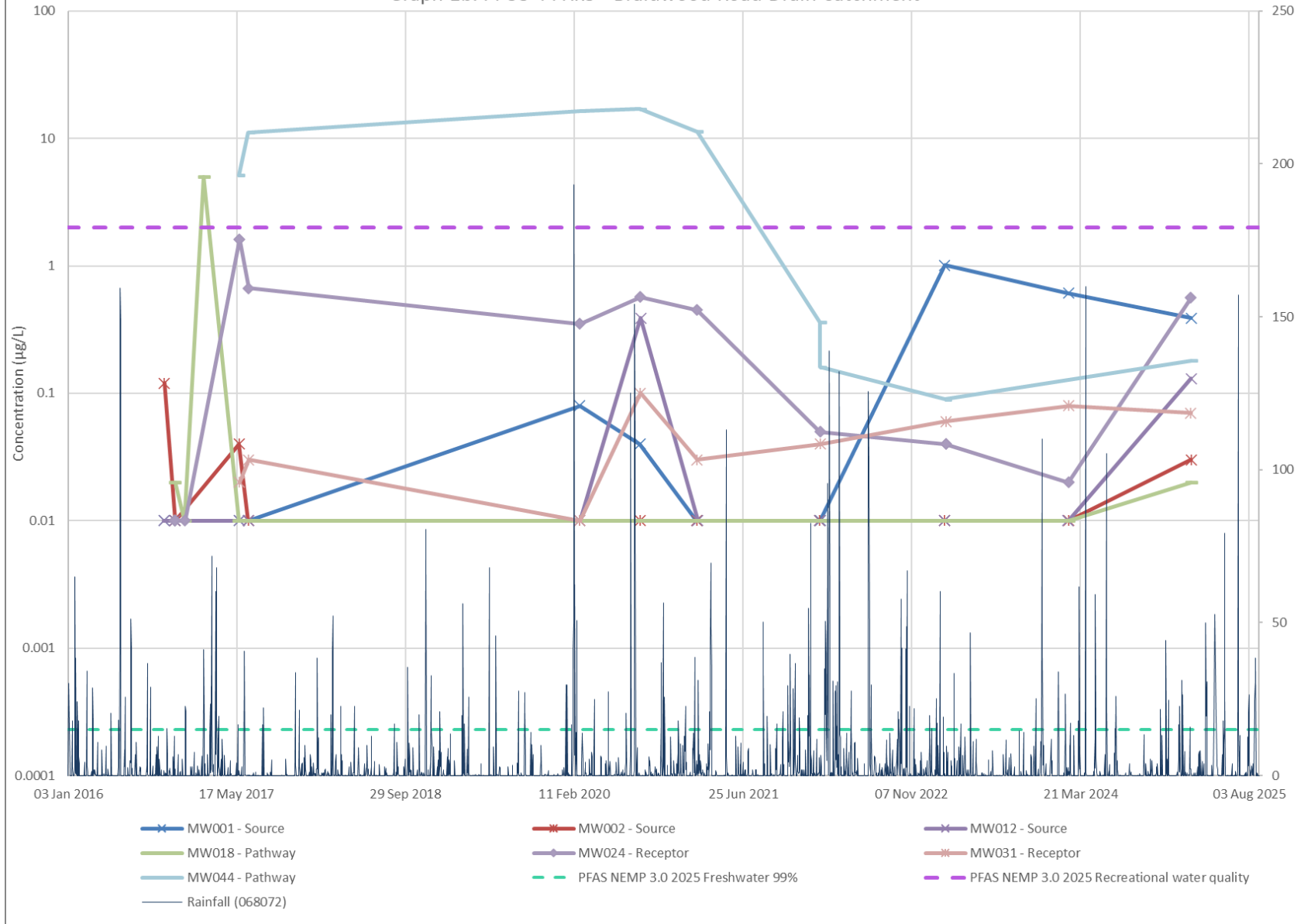
Historical concentration graphs

Groundwater

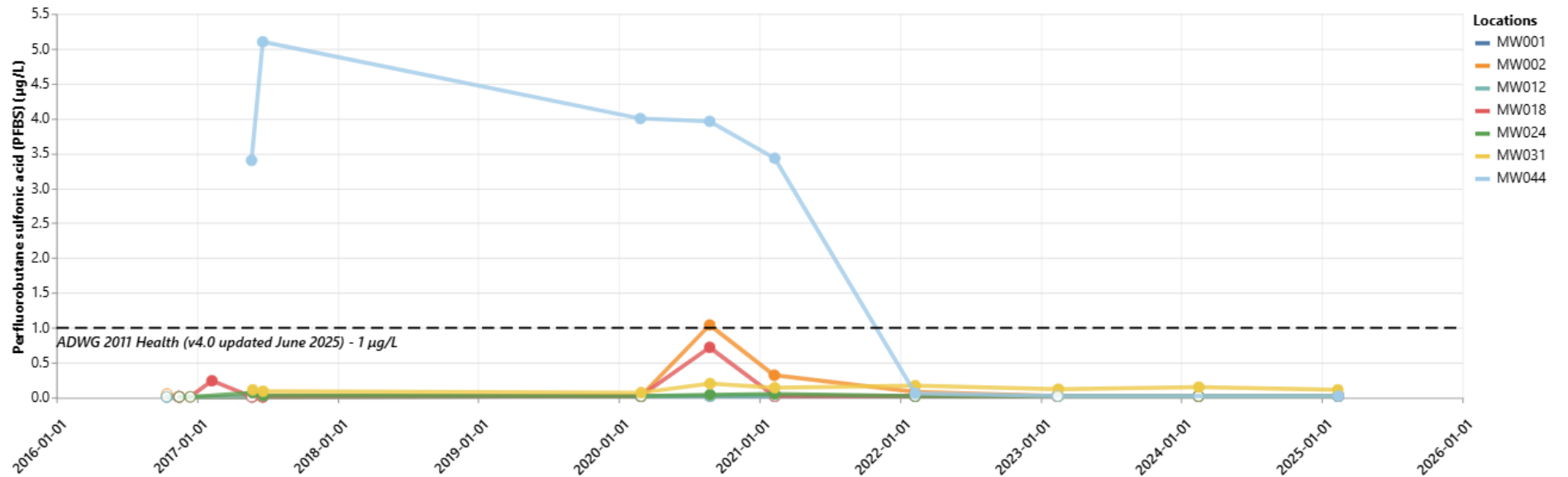
Graph 1a. PFOA - Braidwood Road Drain Catchment

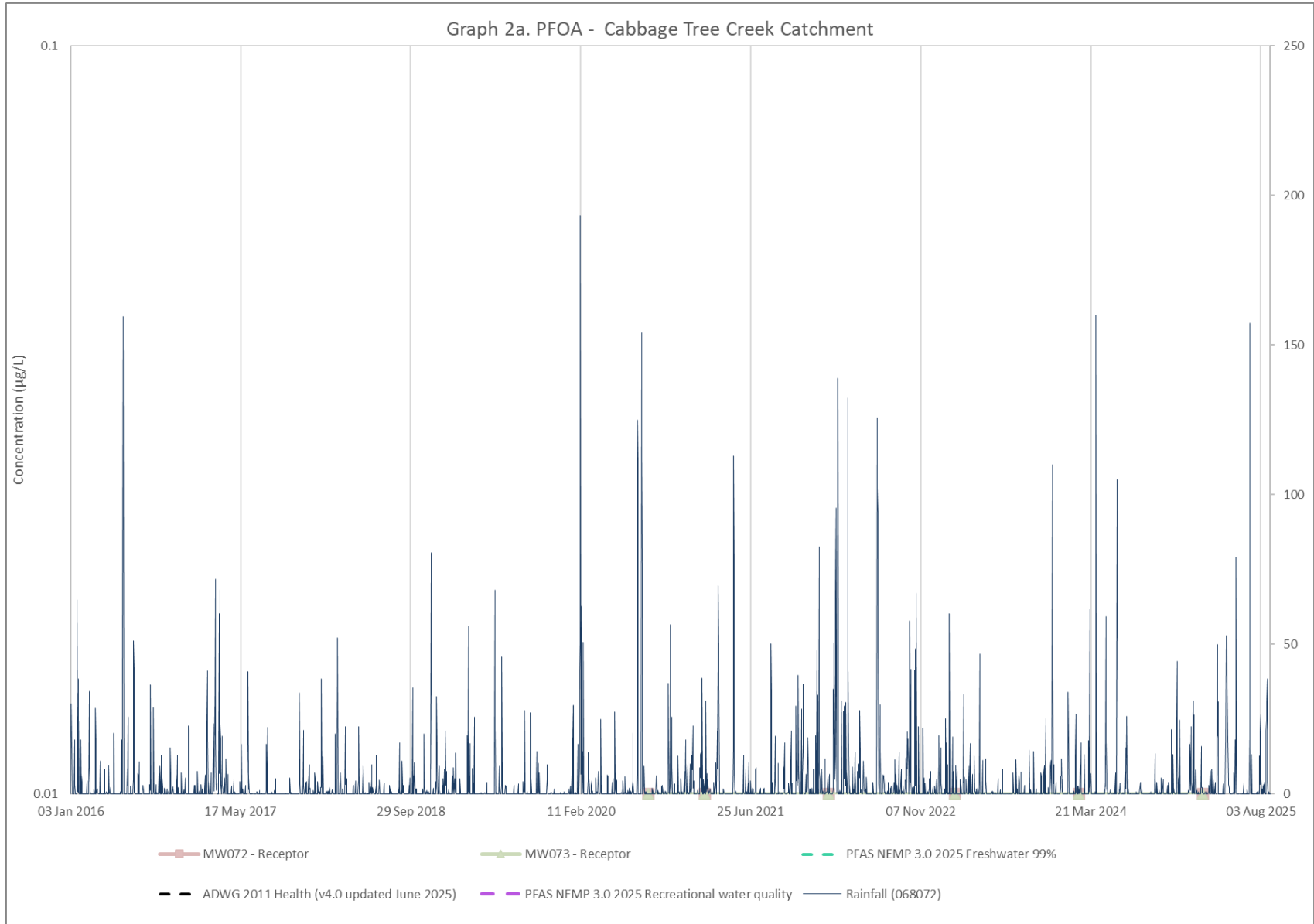


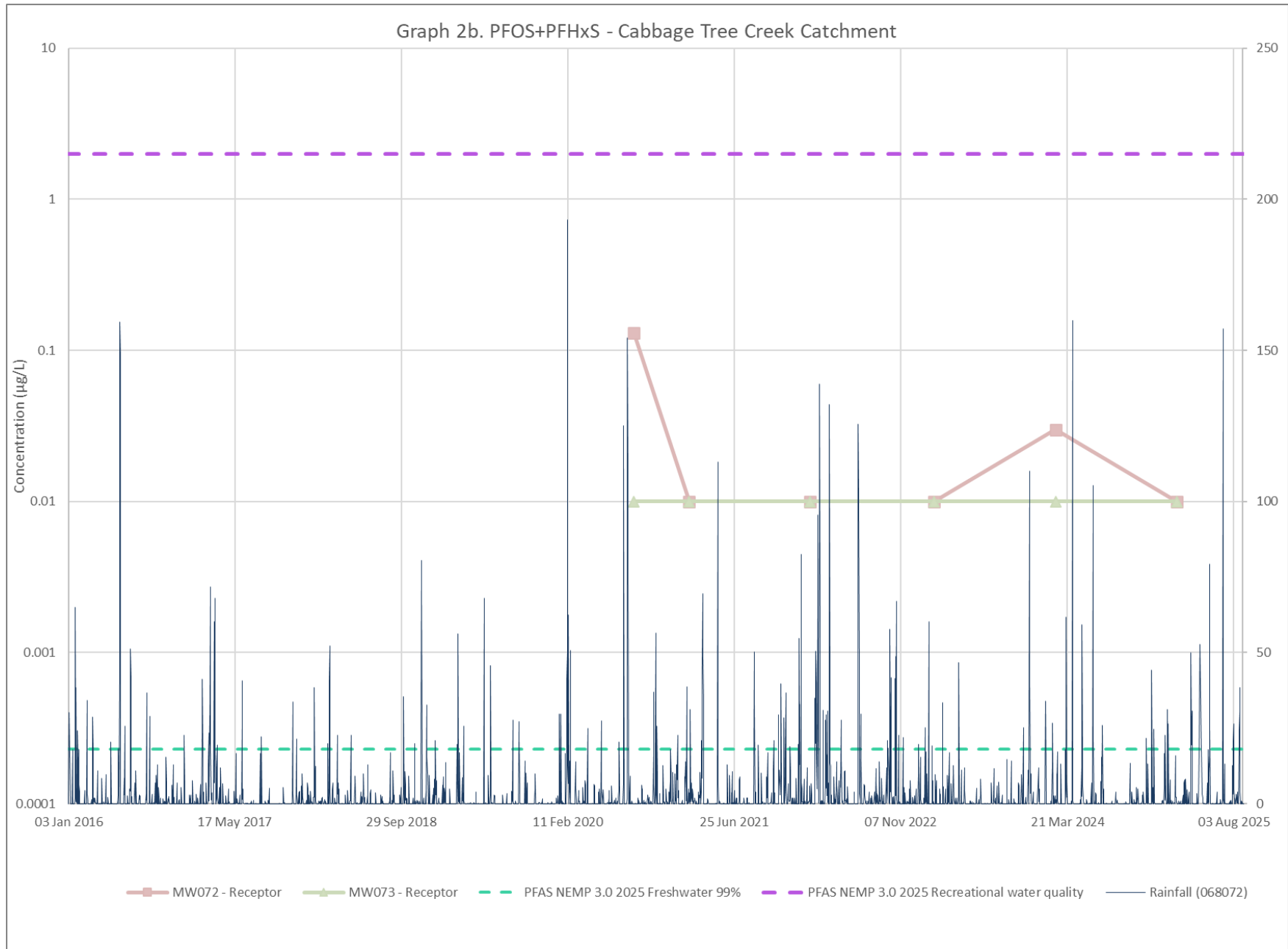
Graph 1b. PFOS+PFHxS - Braidwood Road Drain Catchment



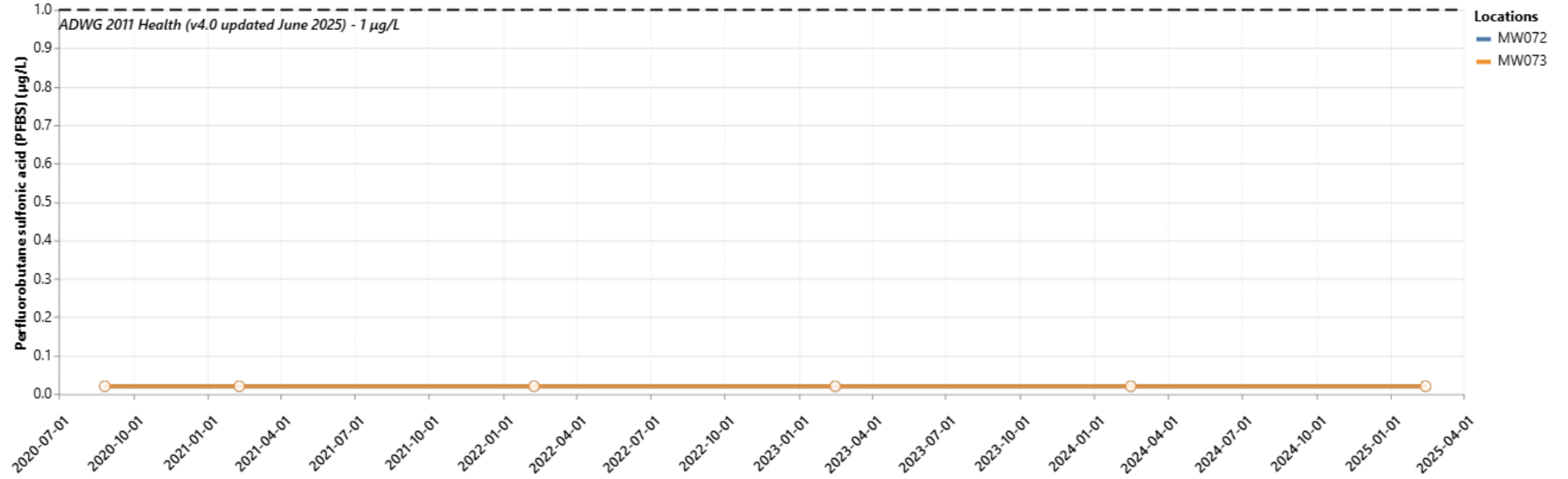
Graph 1c. PFBS – Braidwood Road Drain Catchment

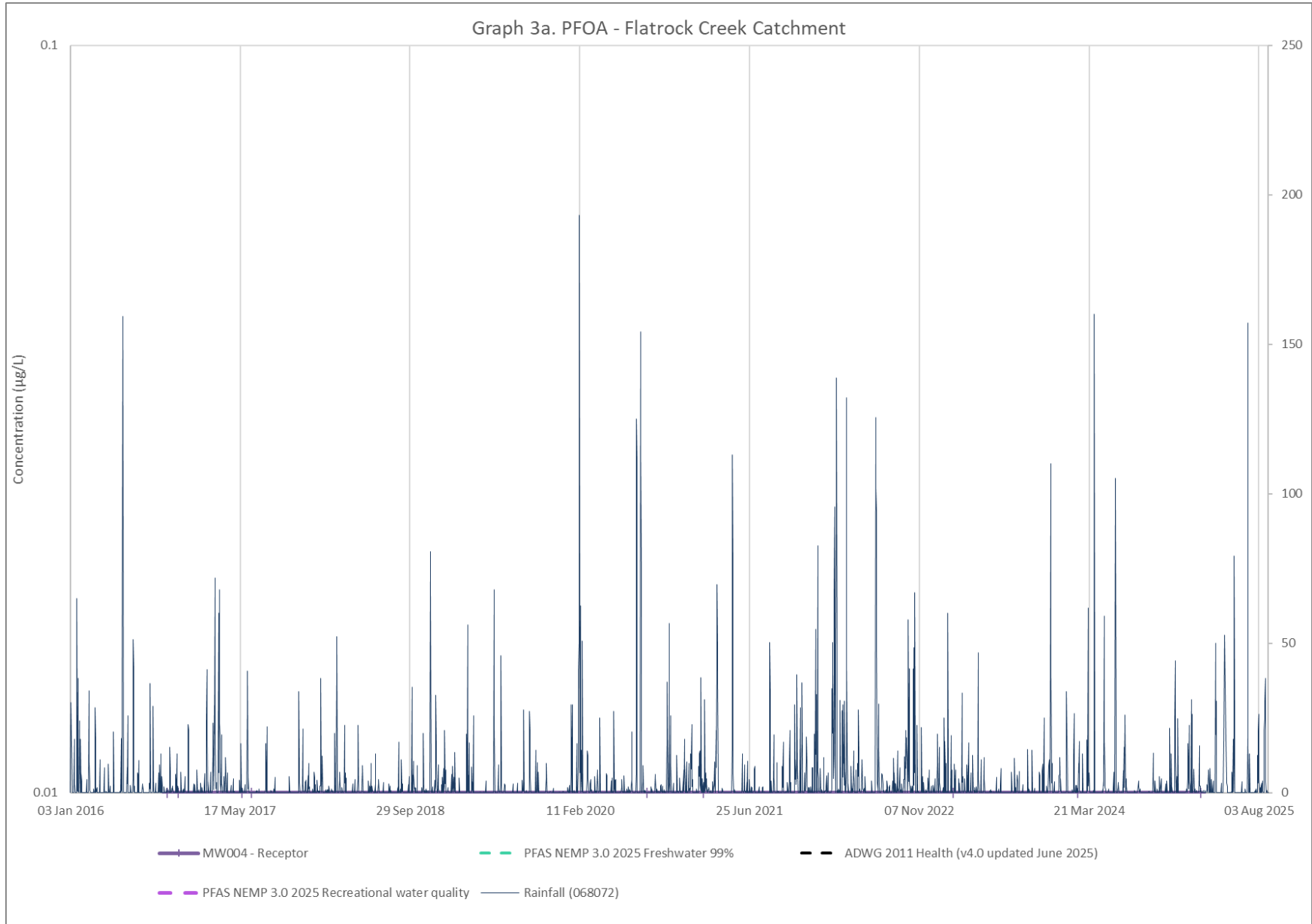


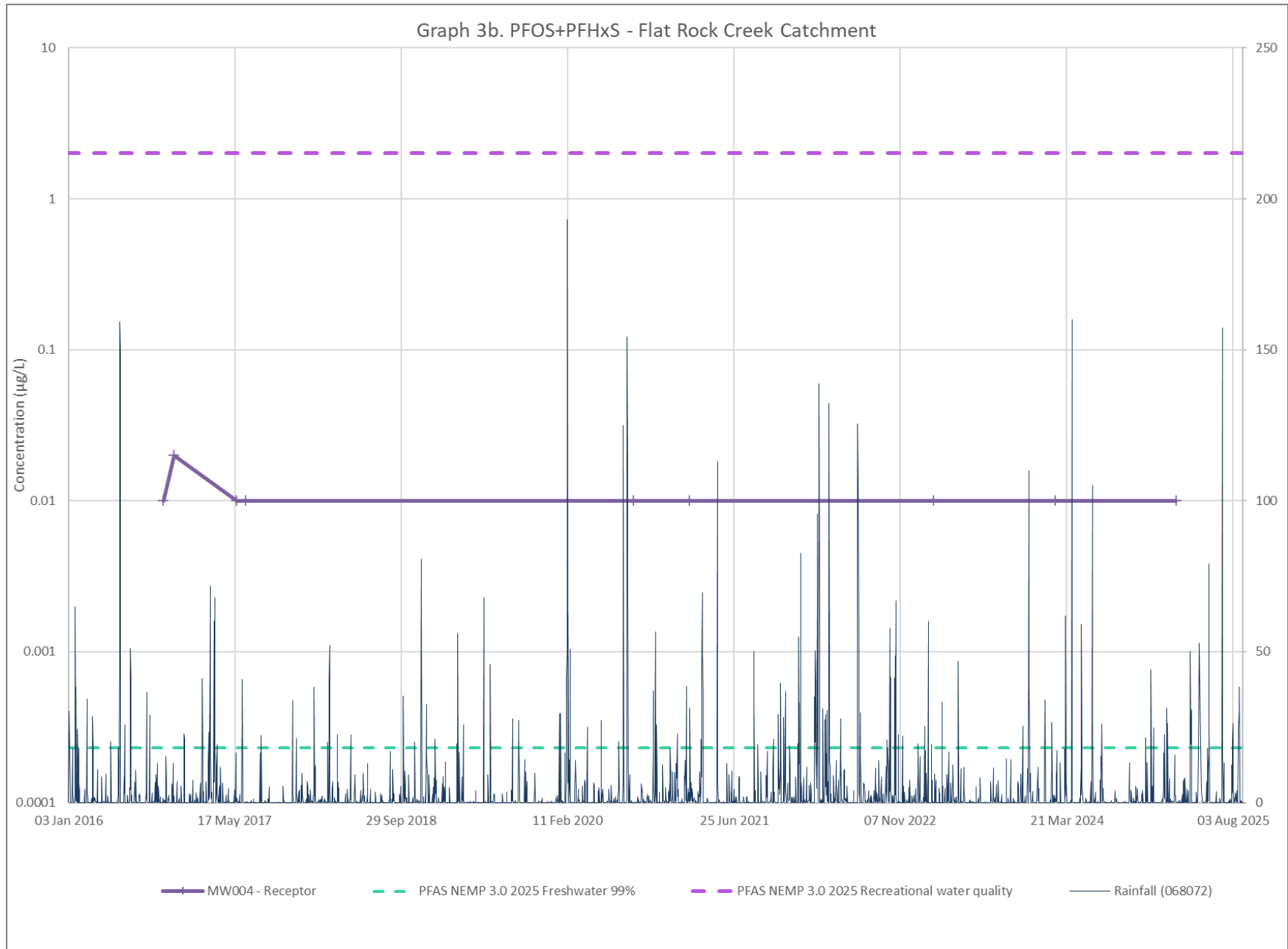




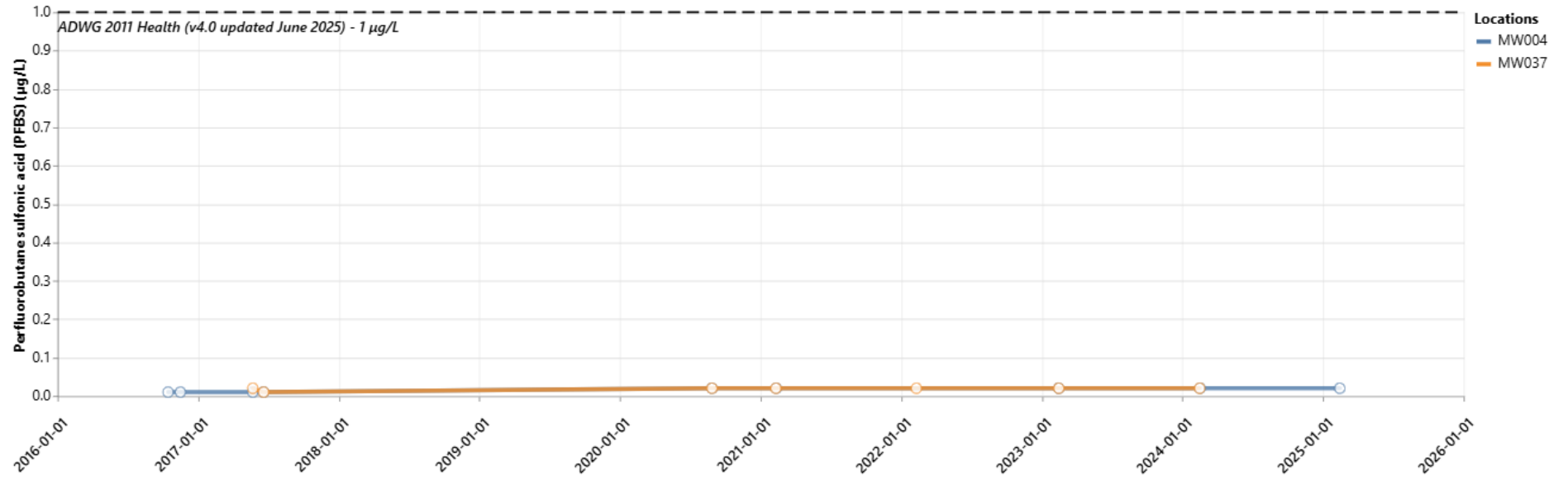
Graph 2c. PFBS – Cabbage Tree Creek Catchment



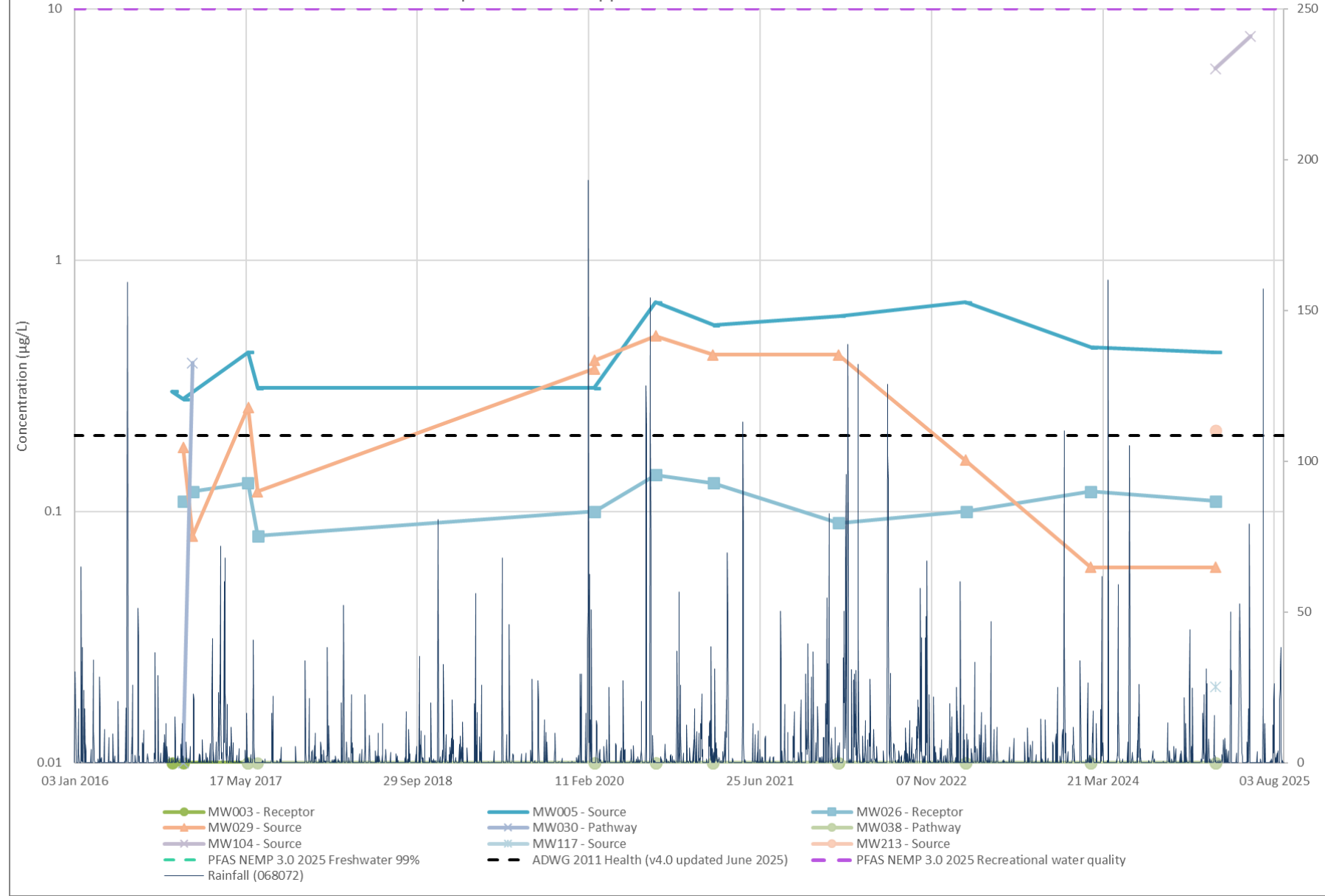




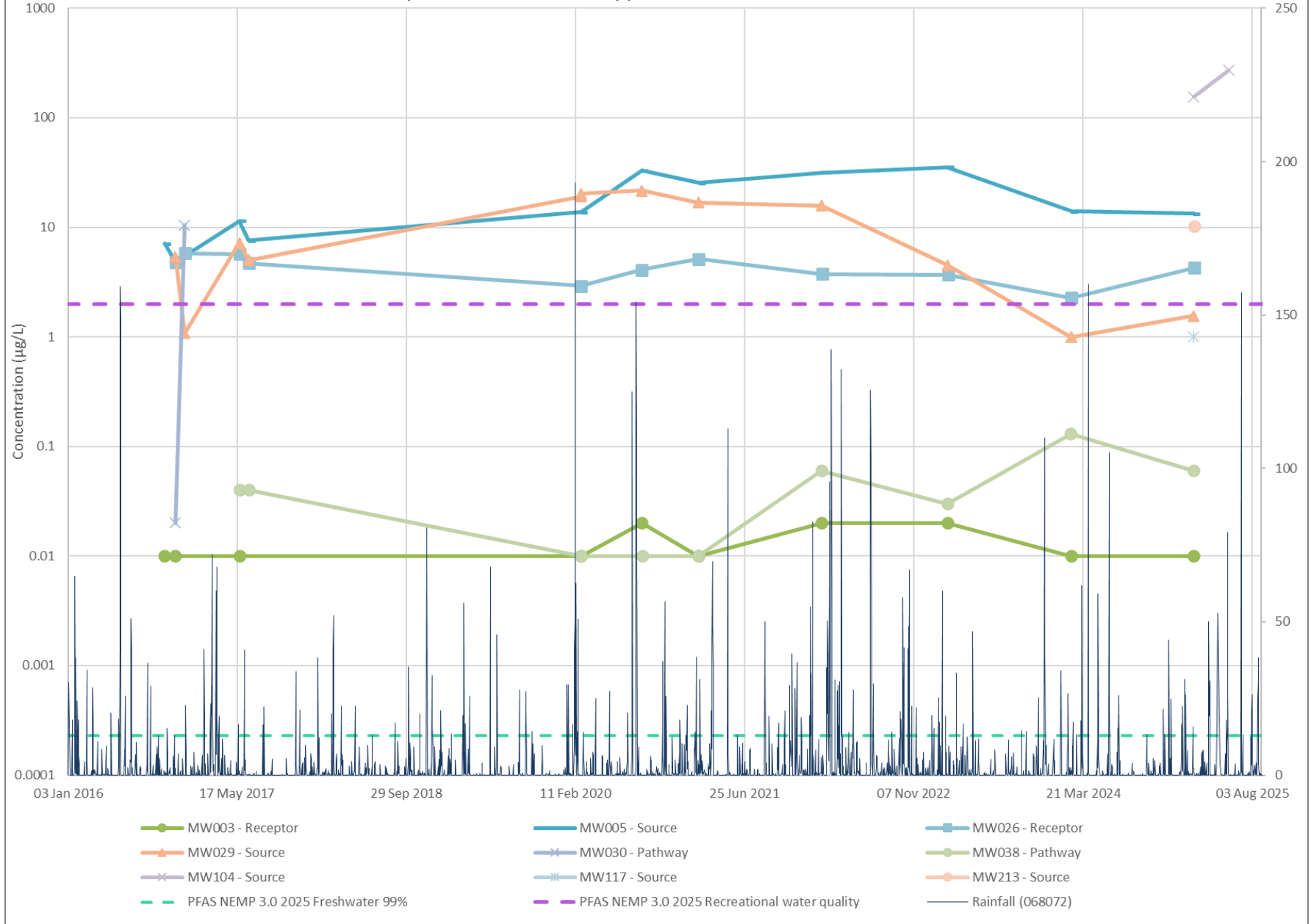
Graph 3c. PFBS – Flatrock Creek Catchment



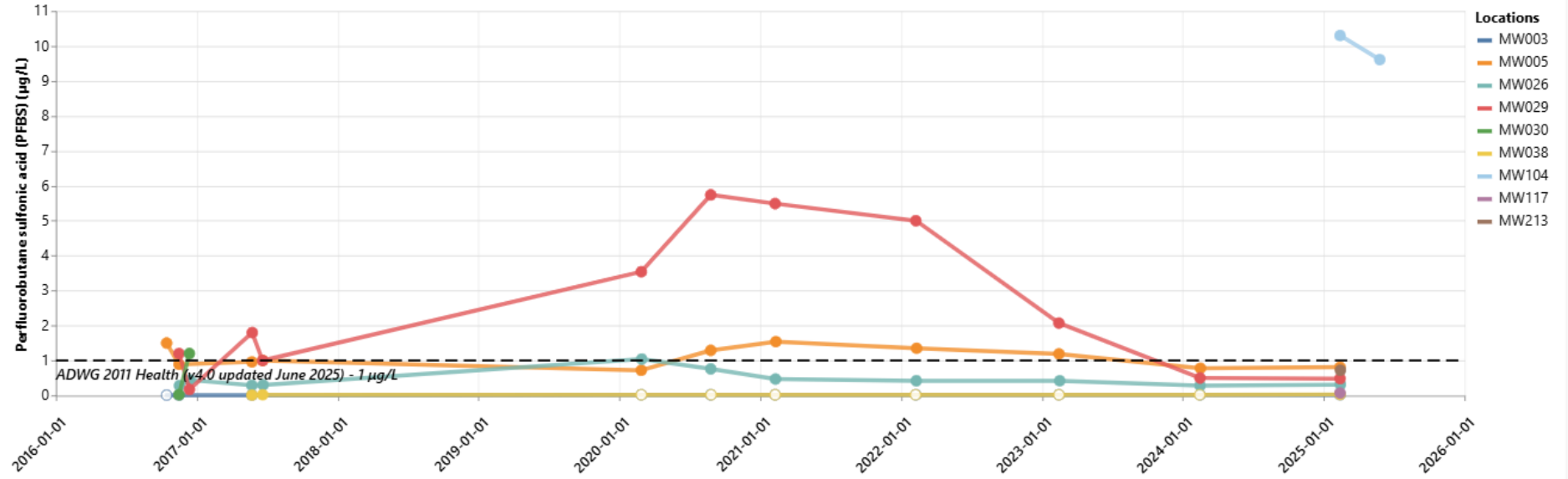
Graph 4a. PFOA - Upper Currumbene Creek Catchment



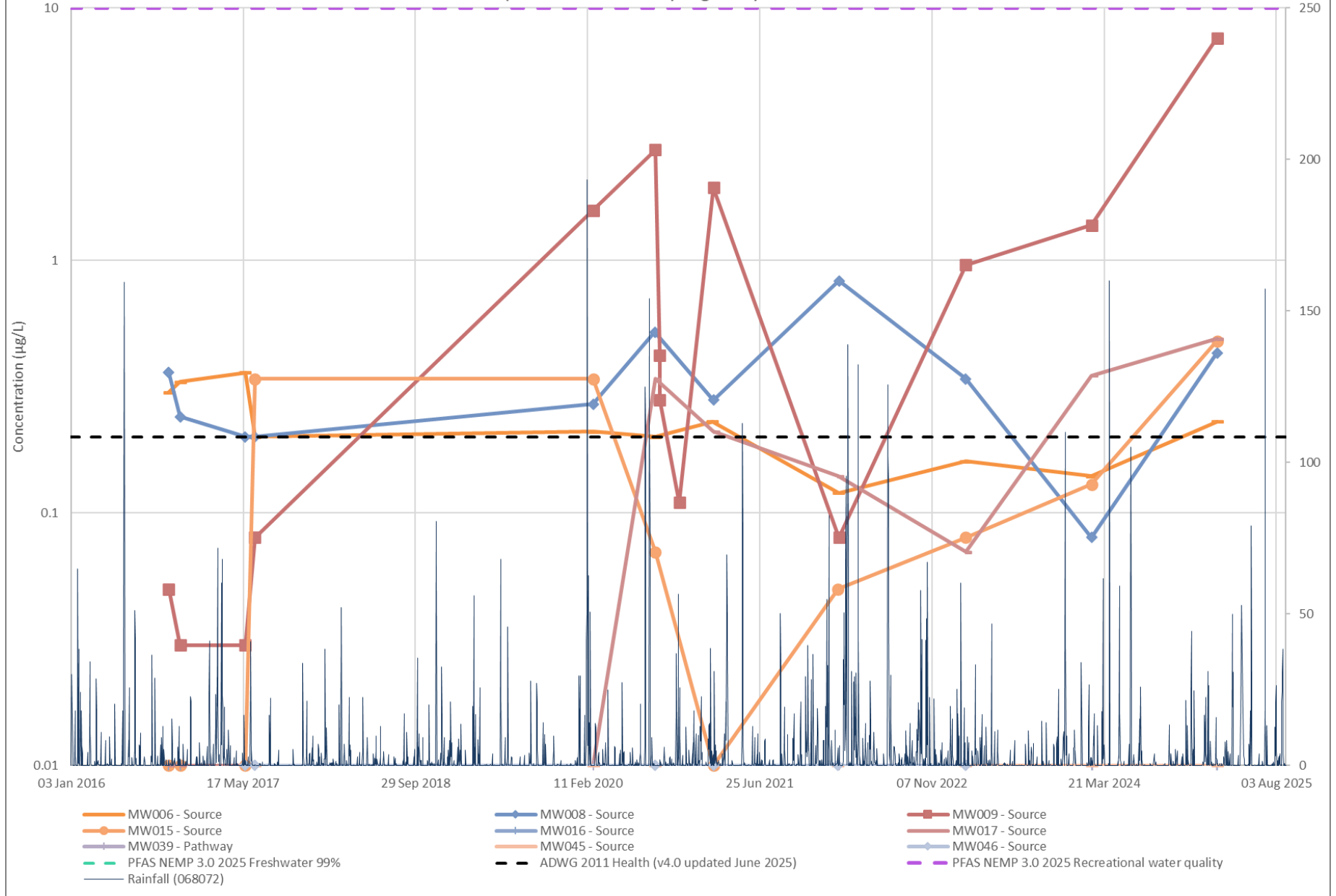
Graph 4b. PFOS+PFHxS - Upper Currumbene Creek Catchment



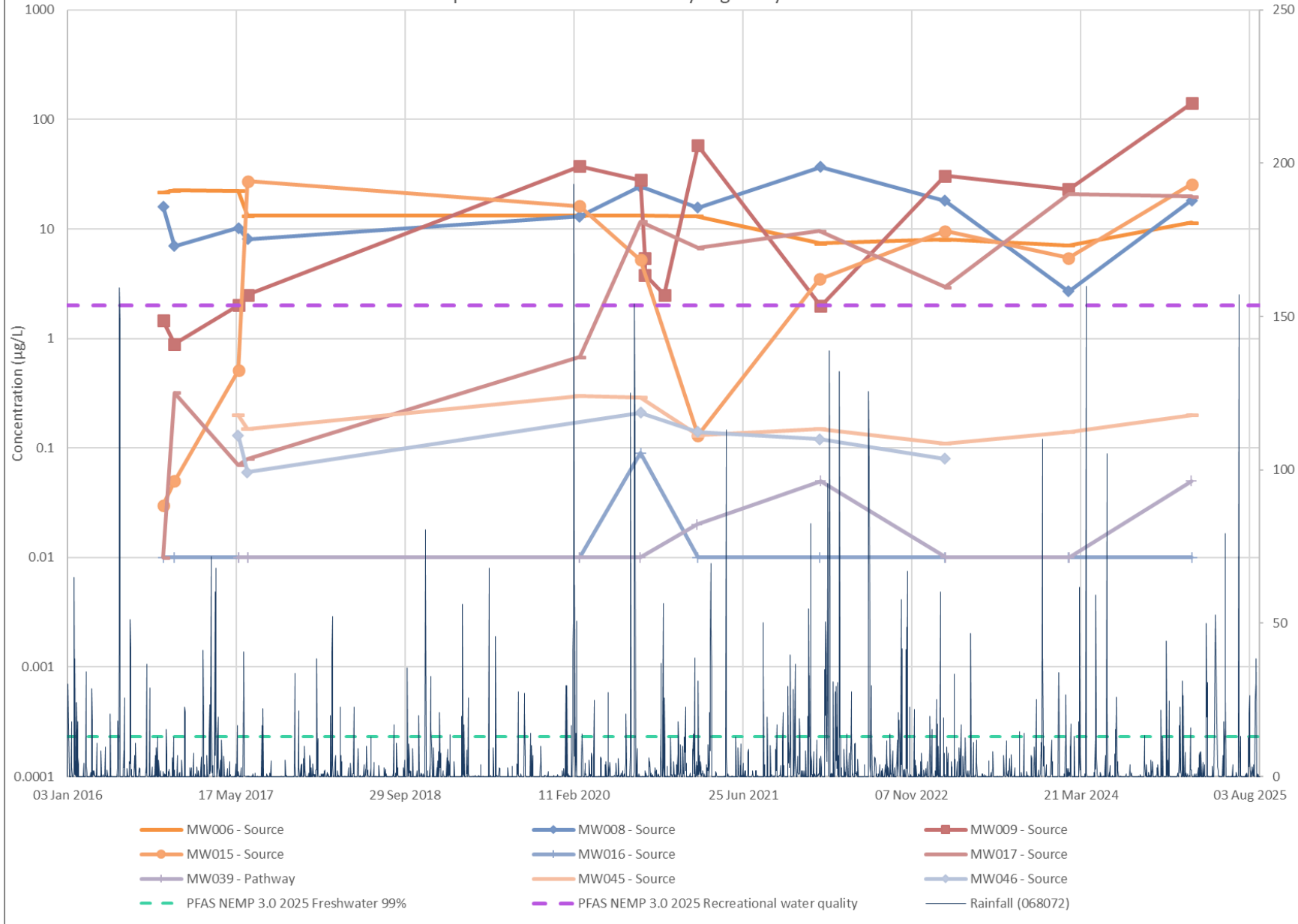
Graph 4c. PFBS – Upper Currumbene Creek Catchment



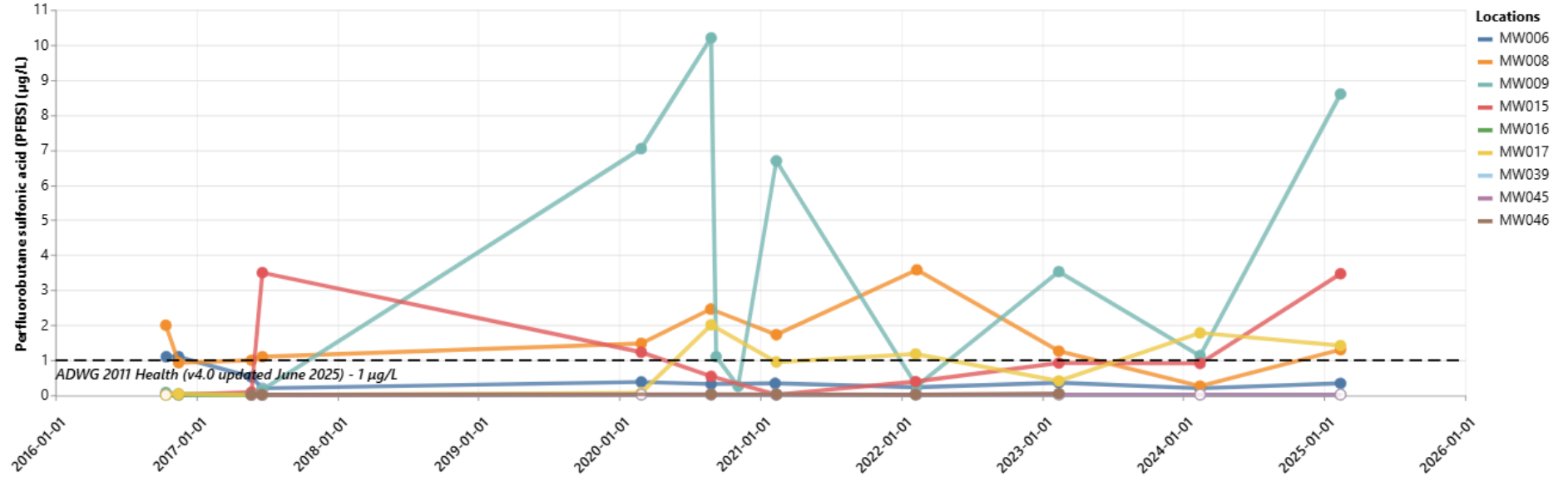
Graph 5a. PFOA - Yerriyong Gully Catchment

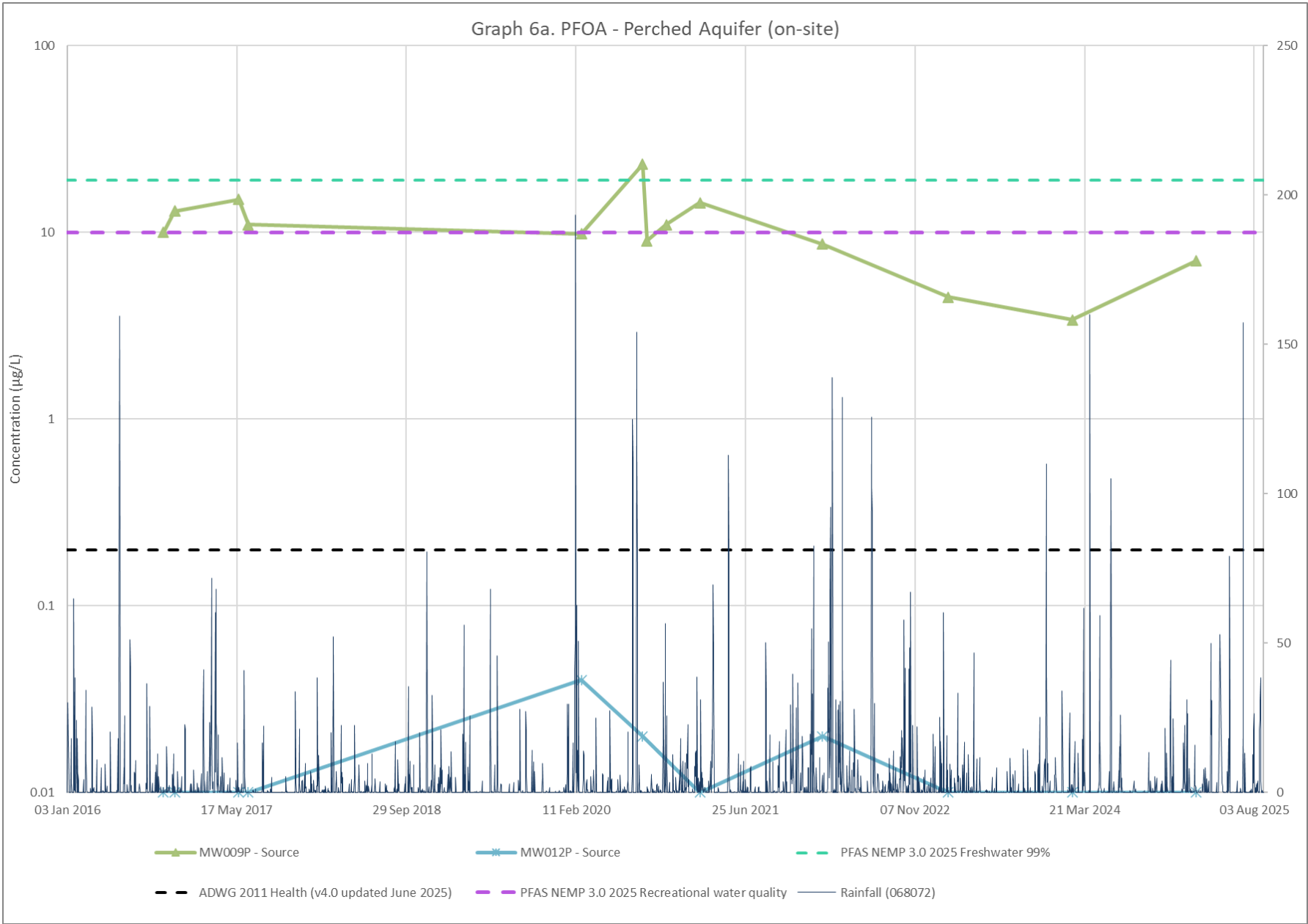


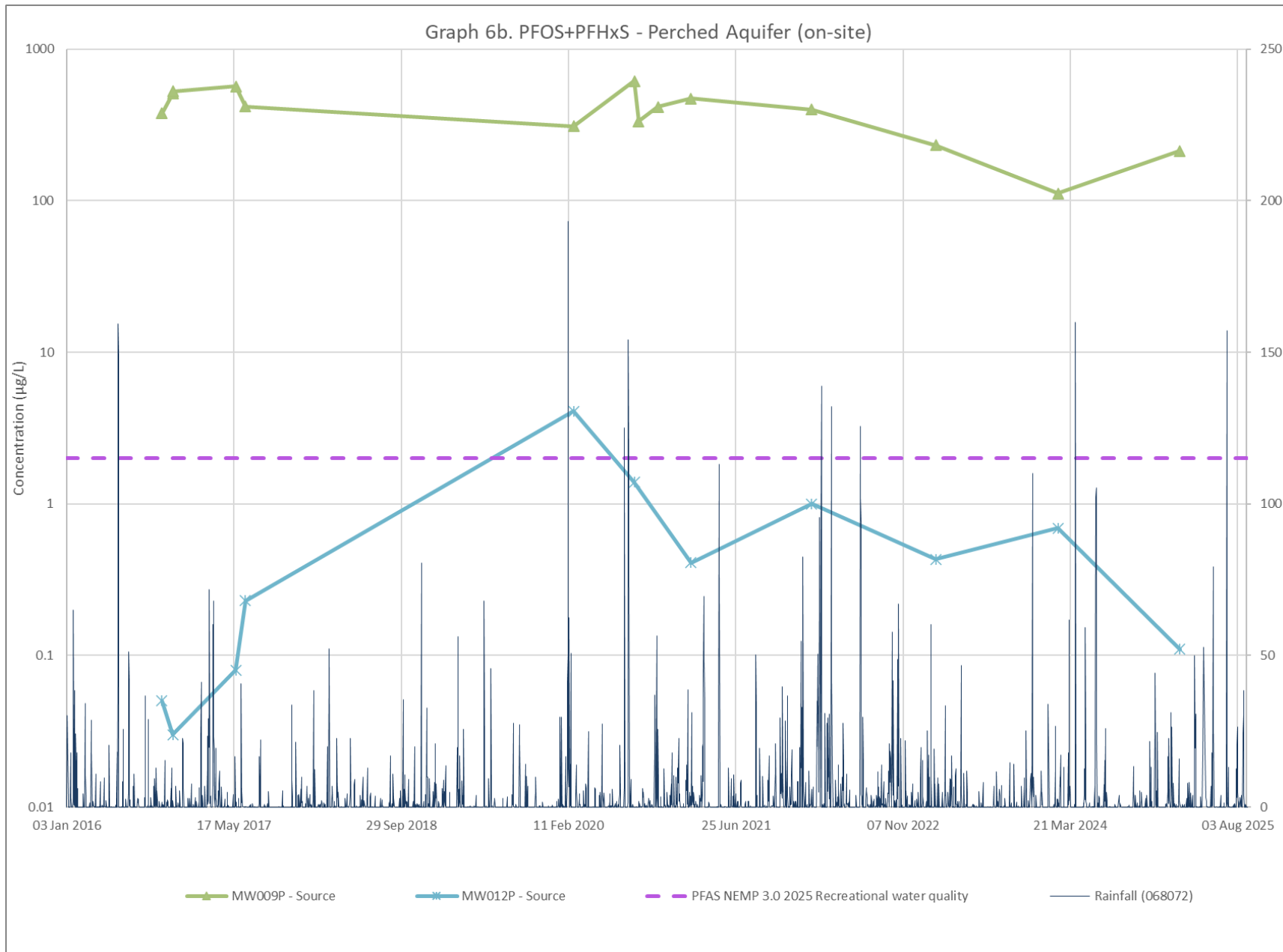
Graph 5b. PFOS+PFHxS - Yerriyong Gully Catchment



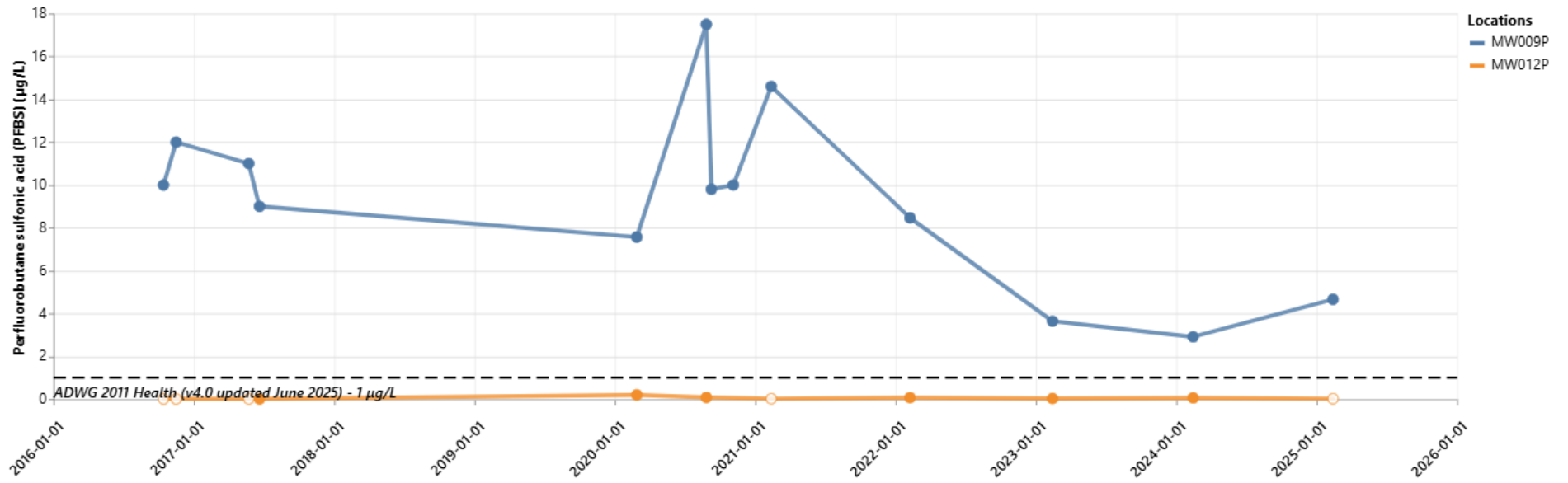
Graph 5c. PFBS – Yerriyong Gully Catchment





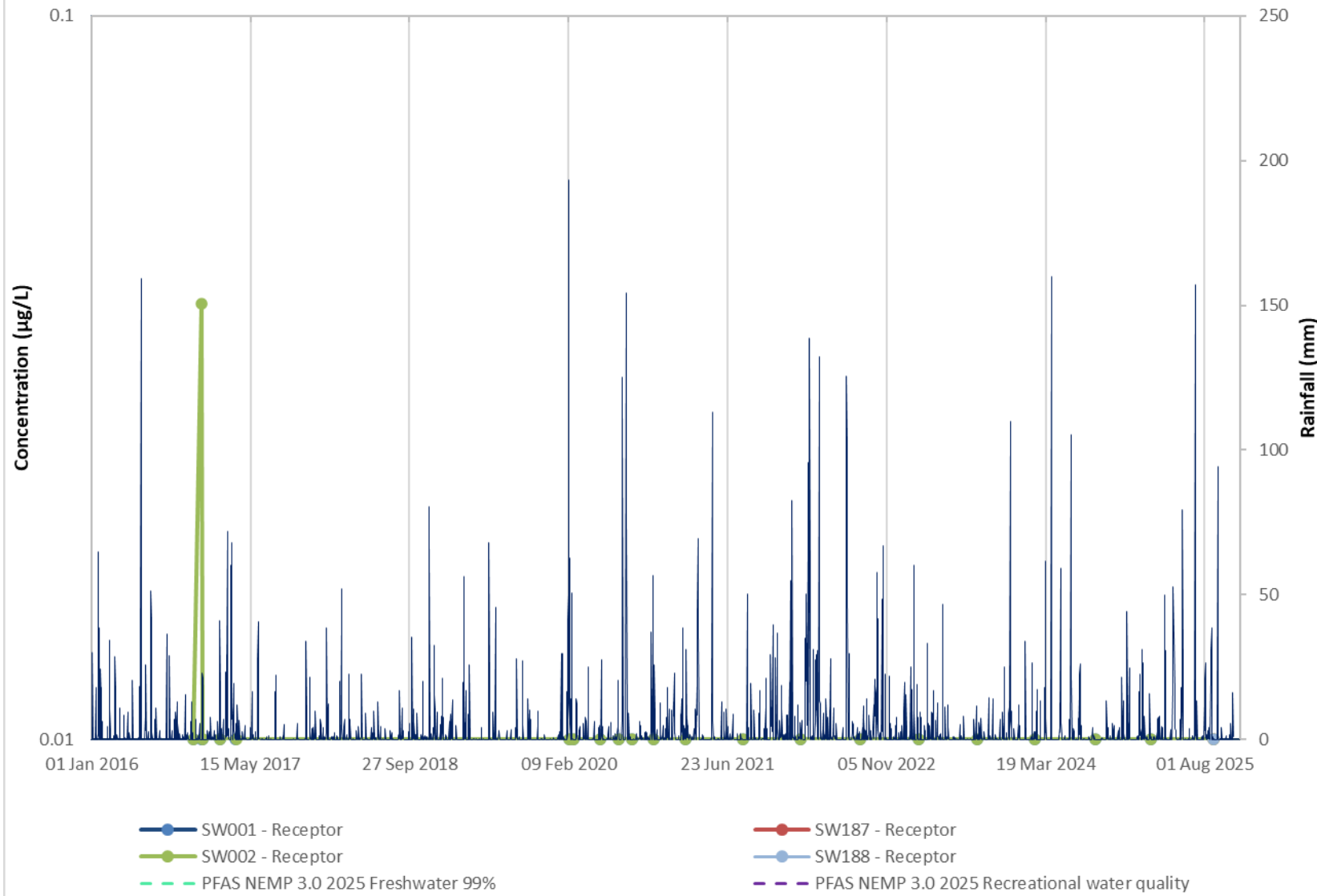


Graph 6c. PFBS – Perched Aquifer (on-site)

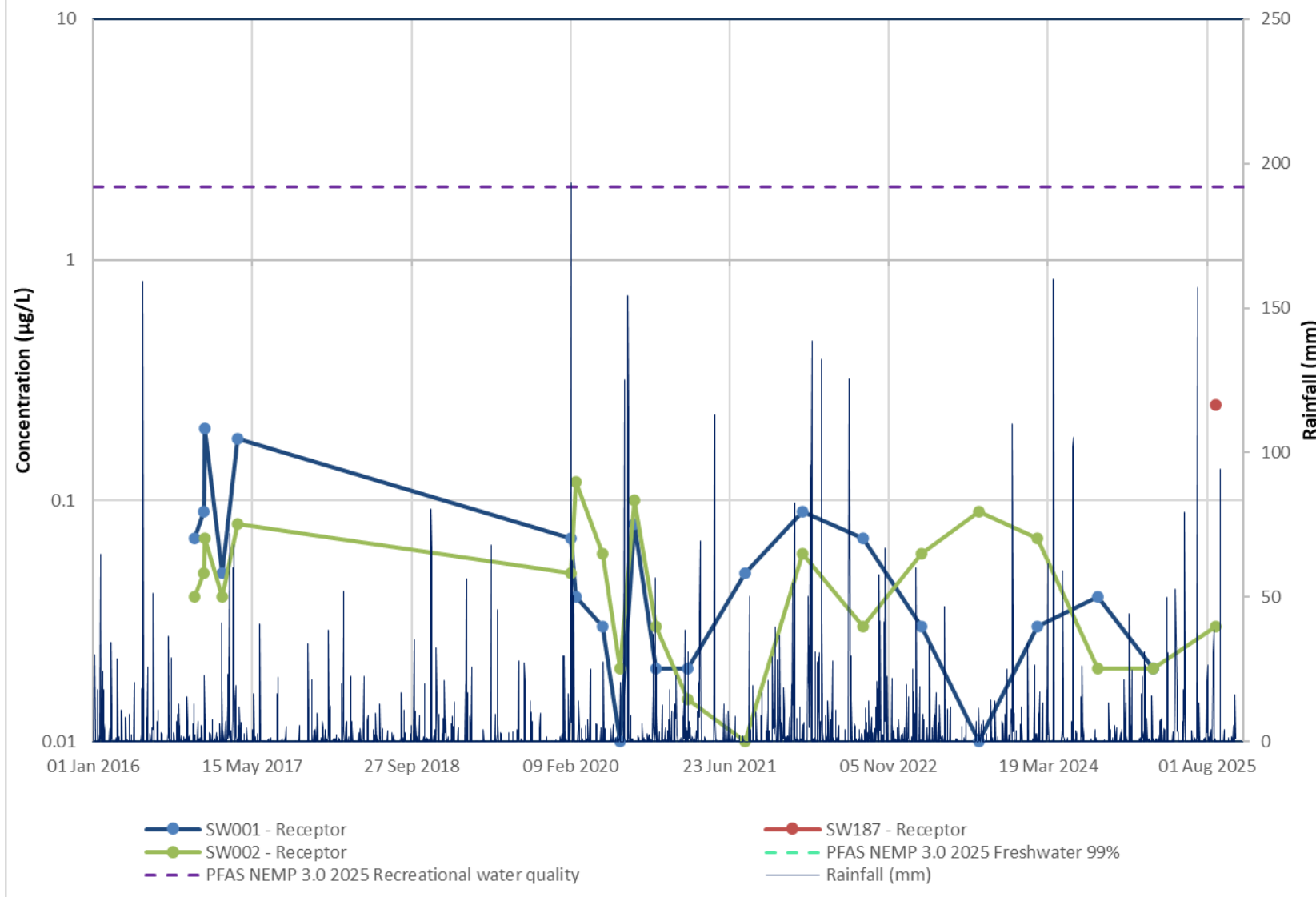


Surface Water

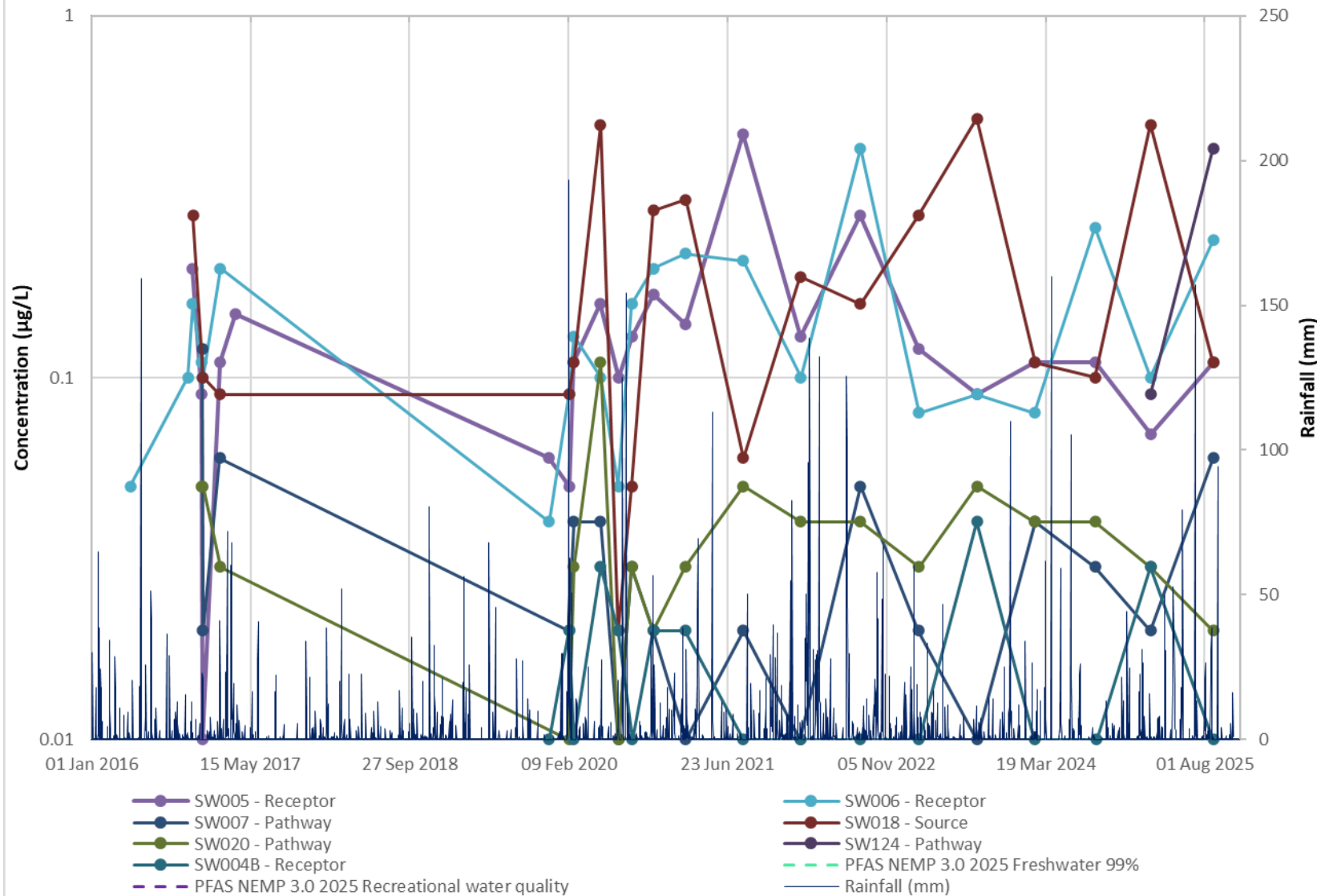
Graph 7a. PFOA - Cabbage Tree Creek and Flat Rock Creek Catchment



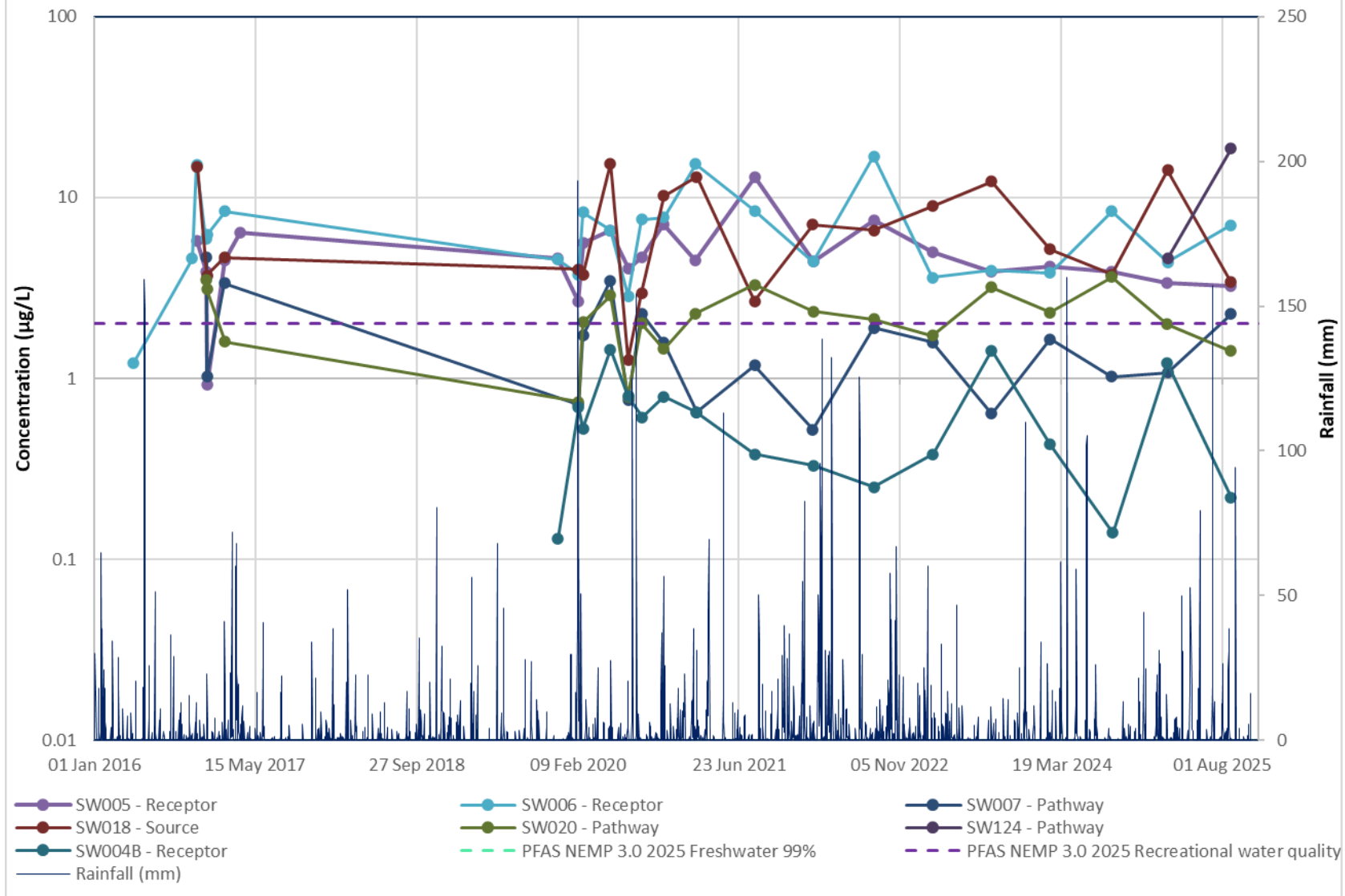
Graph 7b. PFOS+PFHxS - Cabbage Tree Creek and Flat Rock Creek Catchment



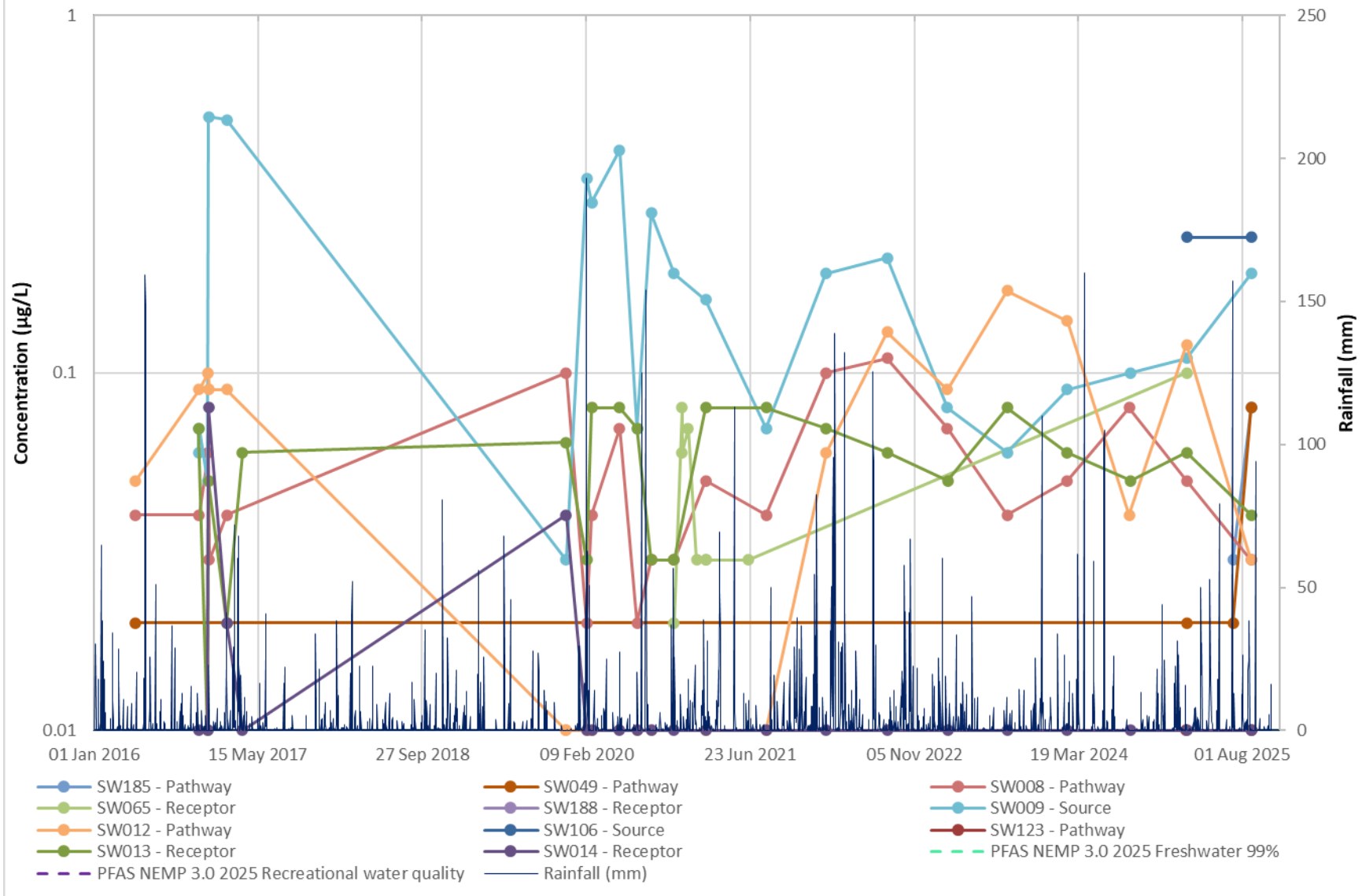
Graph 8a. PFOA - Braidwood Road Brain and Lower Calymea Creek



Graph 8b. PFOS+PFHxS - Braidwood Road Drain and Lower Calymea Creek



Graph 9a. PFOA - Currambene Creek, Yerriyong Gully, and Parma Creek Catchment



Graph 9b. PFOS+PFHxS - Currumbene Creek, Yerriyong Gully, and Parma Creek Catchment

