

## Per- and polyfluoroalkyl substances (PFAS) testing

Characteristic	Current ADWG value*	Proposed ADWG value*	Result	Meeting current ADWG value (%)
Perfluorooctanoic acid (PFOA)	0.560 µg/L 560 ng/L	0.2 µg/L 200 ng/L	µg/L ng/L	
Perfluorooctane sulfonic acid (PFOS)	Sum of PFOS and PFHxS 0.07 µg/L 70 ng/L	0.004 µg/L 4 ng/L	µg/L ng/L	
Perfluorohexane sulfonic acid (PFHxS)		0.03 µg/L 30 ng/L	µg/L ng/L	
Perfluorobutane sulfonic acid (PFBS)	No current guideline value	1 µg/L 1000 ng/L	µg/L ng/L	

\*Units: microgram per litre (µg/L), nanogram per litre (ng/L)

PFAS chemicals - or per-and polyfluoroalkyl substances - are synthetic chemicals found in many everyday products. They have been widely used in many industrial and consumer applications as they are effective at resisting heat, stains, grease and water. The guideline values show the amount of PFAS in drinking water that a person can consume on a daily basis over a lifetime without any appreciable risk to health

The National Health and Medical Research Council (NHRMC) has stated that drinking water supplies that comply with the current [Australian Drinking Water Guidelines](#) (ADWG) are safe to drink.

The proposed drinking water guideline values are a draft and will not be considered final until they are published by the NHRMC, which is anticipated for April 2025. The existing PFAS guideline values remain current until the updated values are finalised and published.

Client Reference: Walgett Shire Council WG03

PFAS in Water LOW LEVEL Short		
Our Reference		366241-1
Your Reference	UNITS	Lightning Ridge
Barcode		A24WG0300001
Sample Site Code		787
Date Sampled		5/11/2024
Type of sample		Water
Date prepared	-	18/11/2024
Date analysed	-	18/11/2024
Perfluorobutanesulfonic acid	µg/L	<0.001
Perfluorohexanesulfonic acid - PFHxS	µg/L	<0.001
Perfluorooctanesulfonic acid PFOS	µg/L	<0.001
Perfluorooctanoic acid PFOA	µg/L	<0.001
6:2 FTS	µg/L	<0.001
8:2 FTS	µg/L	<0.002
Surrogate <sup>13</sup> C <sub>8</sub> PFOS	%	87
Surrogate <sup>13</sup> C <sub>2</sub> PFOA	%	105
Extracted ISTD <sup>13</sup> C <sub>3</sub> PFBS	%	91
Extracted ISTD <sup>18</sup> O <sub>2</sub> PFHxS	%	101
Extracted ISTD <sup>13</sup> C <sub>4</sub> PFOS	%	93
Extracted ISTD <sup>13</sup> C <sub>4</sub> PFOA	%	93
Extracted ISTD <sup>13</sup> C <sub>2</sub> 6:2FTS	%	99
Extracted ISTD <sup>13</sup> C <sub>2</sub> 8:2FTS	%	102
Total Positive PFHxS & PFOS	µg/L	<0.001
Total Positive PFOA & PFOS	µg/L	<0.001
Total Positive PFAS	µg/L	<0.001

Client Reference: Walgett Shire Council WG02

PFAS in Water LOW LEVEL Short		
Our Reference		366240-1
Your Reference	UNITS	Collarenebri
Barcode		A24WG0200001
Sample Site Code		M44
Date Sampled		6/11/2024
Type of sample		Water
Date prepared	-	15/11/2024
Date analysed	-	15/11/2024
Perfluorobutanesulfonic acid	µg/L	<0.001
Perfluorohexanesulfonic acid - PFHxS	µg/L	<0.001
Perfluorooctanesulfonic acid PFOS	µg/L	<0.001
Perfluorooctanoic acid PFOA	µg/L	<0.001
6:2 FTS	µg/L	<0.001
8:2 FTS	µg/L	<0.002
Surrogate <sup>13</sup> C <sub>8</sub> PFOS	%	67
Surrogate <sup>13</sup> C <sub>2</sub> PFOA	%	101
Extracted ISTD <sup>13</sup> C <sub>3</sub> PFBS	%	78
Extracted ISTD <sup>18</sup> O <sub>2</sub> PFHxS	%	101
Extracted ISTD <sup>13</sup> C <sub>4</sub> PFOS	%	85
Extracted ISTD <sup>13</sup> C <sub>4</sub> PFOA	%	76
Extracted ISTD <sup>13</sup> C <sub>2</sub> 6:2FTS	%	83
Extracted ISTD <sup>13</sup> C <sub>2</sub> 8:2FTS	%	85
Total Positive PFHxS & PFOS	µg/L	<0.001
Total Positive PFOA & PFOS	µg/L	<0.001
Total Positive PFAS	µg/L	<0.001

PFAS in Water LOW LEVEL Short		
Our Reference		366242-1
Your Reference	UNITS	Cumborah
Barcode		A24WG0700001
Sample Site Code		1
Date Sampled		5/11/2024
Type of sample		Water
Date prepared	-	15/11/2024
Date analysed	-	15/11/2024
Perfluorobutanesulfonic acid	µg/L	<0.001
Perfluorohexanesulfonic acid - PFHxS	µg/L	<0.001
Perfluorooctanesulfonic acid PFOS	µg/L	<0.001
Perfluorooctanoic acid PFOA	µg/L	<0.001
6:2 FTS	µg/L	<0.001
8:2 FTS	µg/L	<0.002
Surrogate <sup>13</sup> C <sub>8</sub> PFOS	%	69
Surrogate <sup>13</sup> C <sub>2</sub> PFOA	%	99
Extracted ISTD <sup>13</sup> C <sub>3</sub> PFBS	%	76
Extracted ISTD <sup>18</sup> O <sub>2</sub> PFHxS	%	96
Extracted ISTD <sup>13</sup> C <sub>4</sub> PFOS	%	91
Extracted ISTD <sup>13</sup> C <sub>4</sub> PFOA	%	85
Extracted ISTD <sup>13</sup> C <sub>2</sub> 6:2FTS	%	104
Extracted ISTD <sup>13</sup> C <sub>2</sub> 8:2FTS	%	106
Total Positive PFHxS & PFOS	µg/L	<0.001
Total Positive PFOA & PFOS	µg/L	<0.001
Total Positive PFAS	µg/L	<0.001

PFAS in Water LOW LEVEL Short		
Our Reference		366235-1
Your Reference	UNITS	Walgett
Barcode		A24WG0100001
Sample Site Code		M43
Date Sampled		5/11/2024
Type of sample		Water
Date prepared	-	18/11/2024
Date analysed	-	18/11/2024
Perfluorobutanesulfonic acid	µg/L	<0.001
Perfluorohexanesulfonic acid - PFHxS	µg/L	<0.001
Perfluorooctanesulfonic acid PFOS	µg/L	<0.001
Perfluorooctanoic acid PFOA	µg/L	<0.001
6:2 FTS	µg/L	<0.001
8:2 FTS	µg/L	<0.002
Surrogate <sup>13</sup> C <sub>8</sub> PFOS	%	86
Surrogate <sup>13</sup> C <sub>2</sub> PFOA	%	102
Extracted ISTD <sup>13</sup> C <sub>3</sub> PFBS	%	77
Extracted ISTD <sup>18</sup> O <sub>2</sub> PFHxS	%	99
Extracted ISTD <sup>13</sup> C <sub>4</sub> PFOS	%	98
Extracted ISTD <sup>13</sup> C <sub>4</sub> PFOA	%	92
Extracted ISTD <sup>13</sup> C <sub>2</sub> 6:2FTS	%	93
Extracted ISTD <sup>13</sup> C <sub>2</sub> 8:2FTS	%	97
Total Positive PFHxS & PFOS	µg/L	<0.001
Total Positive PFOA & PFOS	µg/L	<0.001
Total Positive PFAS	µg/L	<0.001

Client Reference: Walgett Shire Council WG06

PFAS in Water LOW LEVEL Short				
Our Reference		366237-1	366237-2	366237-3
Your Reference	UNITS	Gingie	Gingie Duplicate	Gingie Field Blank
Barcode		A24WG0600001	-	-
Sample Site Code		2	-	-
Date Sampled		5/11/2024	5/11/2024	5/11/2024
Type of sample		Water	Water	Water
Date prepared	-	18/11/2024	18/11/2024	18/11/2024
Date analysed	-	18/11/2024	18/11/2024	18/11/2024
Perfluorobutanesulfonic acid	µg/L	<0.001	<0.001	<0.001
Perfluorohexanesulfonic acid - PFHxS	µg/L	<0.001	<0.001	<0.001
Perfluorooctanesulfonic acid PFOS	µg/L	<0.001	<0.001	<0.001
Perfluorooctanoic acid PFOA	µg/L	<0.001	<0.001	<0.001
6:2 FTS	µg/L	<0.001	<0.001	<0.001
8:2 FTS	µg/L	<0.002	<0.002	<0.002
Surrogate <sup>13</sup> C <sub>8</sub> PFOS	%	72	81	80
Surrogate <sup>13</sup> C <sub>2</sub> PFOA	%	100	102	104
Extracted ISTD <sup>13</sup> C <sub>3</sub> PFBS	%	75	71	70
Extracted ISTD <sup>18</sup> O <sub>2</sub> PFHxS	%	95	87	79
Extracted ISTD <sup>13</sup> C <sub>4</sub> PFOS	%	110	94	96
Extracted ISTD <sup>13</sup> C <sub>4</sub> PFOA	%	97	86	84
Extracted ISTD <sup>13</sup> C <sub>2</sub> 6:2FTS	%	103	94	89
Extracted ISTD <sup>13</sup> C <sub>2</sub> 8:2FTS	%	100	94	93
Total Positive PFHxS & PFOS	µg/L	<0.001	<0.001	<0.001
Total Positive PFOA & PFOS	µg/L	<0.001	<0.001	<0.001
Total Positive PFAS	µg/L	<0.001	<0.001	<0.001

Client Reference: Walgett Shire Council WG05

PFAS in Water LOW LEVEL Short		
Our Reference		366239-1
Your Reference	UNITS	Rowena
Barcode		A24WG0500001
Sample Site Code		7
Date Sampled		6/11/2024
Type of sample		Water
Date prepared	-	18/11/2024
Date analysed	-	18/11/2024
Perfluorobutanesulfonic acid	µg/L	<0.001
Perfluorohexanesulfonic acid - PFHxS	µg/L	<0.001
Perfluorooctanesulfonic acid PFOS	µg/L	<0.001
Perfluorooctanoic acid PFOA	µg/L	<0.001
6:2 FTS	µg/L	<0.001
8:2 FTS	µg/L	<0.002
Surrogate <sup>13</sup> C <sub>8</sub> PFOS	%	83
Surrogate <sup>13</sup> C <sub>2</sub> PFOA	%	103
Extracted ISTD <sup>13</sup> C <sub>3</sub> PFBS	%	74
Extracted ISTD <sup>18</sup> O <sub>2</sub> PFHxS	%	83
Extracted ISTD <sup>13</sup> C <sub>4</sub> PFOS	%	97
Extracted ISTD <sup>13</sup> C <sub>4</sub> PFOA	%	90
Extracted ISTD <sup>13</sup> C <sub>2</sub> 6:2FTS	%	92
Extracted ISTD <sup>13</sup> C <sub>2</sub> 8:2FTS	%	94
Total Positive PFHxS & PFOS	µg/L	<0.001
Total Positive PFOA & PFOS	µg/L	<0.001
Total Positive PFAS	µg/L	<0.001

Client Reference: Walgett Shire Council WG04

PFAS in Water LOW LEVEL Short				
Our Reference		366236-1	366236-2	366236-3
Your Reference	UNITS	Carinda	Carinda Duplicate	Carinda Field Blank
Barcode		A24WG0400001	-	-
Sample Site Code		888	-	-
Date Sampled		6/11/2024	6/11/2024	6/11/2024
Type of sample		Water	Water	Water
Date prepared	-	18/11/2024	18/11/2024	18/11/2024
Date analysed	-	18/11/2024	18/11/2024	18/11/2024
Perfluorobutanesulfonic acid	µg/L	<0.001	<0.001	<0.001
Perfluorohexanesulfonic acid - PFHxS	µg/L	<0.001	<0.001	<0.001
Perfluorooctanesulfonic acid PFOS	µg/L	<0.001	<0.001	<0.001
Perfluorooctanoic acid PFOA	µg/L	<0.001	<0.001	<0.001
6:2 FTS	µg/L	<0.001	<0.001	<0.001
8:2 FTS	µg/L	<0.002	<0.002	<0.002
Surrogate <sup>13</sup> C <sub>8</sub> PFOS	%	88	88	85
Surrogate <sup>13</sup> C <sub>2</sub> PFOA	%	107	102	100
Extracted ISTD <sup>13</sup> C <sub>3</sub> PFBS	%	87	87	85
Extracted ISTD <sup>18</sup> O <sub>2</sub> PFHxS	%	89	93	87
Extracted ISTD <sup>13</sup> C <sub>4</sub> PFOS	%	93	87	82
Extracted ISTD <sup>13</sup> C <sub>4</sub> PFOA	%	86	85	81
Extracted ISTD <sup>13</sup> C <sub>2</sub> 6:2FTS	%	87	85	77
Extracted ISTD <sup>13</sup> C <sub>2</sub> 8:2FTS	%	106	97	87
Total Positive PFHxS & PFOS	µg/L	<0.001	<0.001	<0.001
Total Positive PFOA & PFOS	µg/L	<0.001	<0.001	<0.001
Total Positive PFAS	µg/L	<0.001	<0.001	<0.001