

Upper Hunter Shire Council
Attn: Nilakshi Fernando, Simon Walmsley
135 Liverpool St
Scone NSW 2337

23rd July 2024

Dear Nilakshi and Simon,

Please find enclosed the final report for gross alpha and gross beta analyses performed on 7 water samples received 10/05/2024 - 29/5/2024. The ANSTO project code for these samples is 2024em0004. Please quote this number in any further correspondence regarding these results.

Please contact me if you have any queries regarding your results.

Yours sincerely,



Michael Corry
Senior Scientist Environmental Monitoring
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Certificate of Analysis

Client Organisation: Upper Hunter Shire Council
Contact: Nilakshi Fernando
Number of Samples Received: 7
ANSTO Project Number: 2024em0004

Methods

I-4558 Determination of Gross Alpha and Gross Beta Radioactivity in Waters – Thick Source Method

This method is based on the following ISO standards:

9696:2017 Water quality – Gross alpha activity – Test method using thick source

9697:2018 Water quality – Gross beta activity – Test method using thick source

QA/QC:

Determined activities are referenced against americium-241 standards for alpha activity and potassium-40 standards for beta activity. Detector background counts were taken between sample counting.

The ANSTO Environmental Monitoring Laboratory is benchmarked against international standards and regularly participates in relevant national and international proficiency exercises.

Results

RADIOACTIVITY IN WATER (Bq/L)				
Sample Description	ANSTO ID	Date Sampled	Gross Alpha	Gross Beta
McKenzie St	C0992	8/05/2024	0.79 ± 0.06	2.15 ± 0.04
Langley St	C0993	8/05/2024	0.59 ± 0.05	2.08 ± 0.04
Collins St	C0994	8/05/2024	0.68 ± 0.05	1.78 ± 0.04
Cassilis No.1	C0995	8/05/2024	0.28 ± 0.03	0.19 ± 0.01
Cassilis No.2	C0996	8/05/2024	<0.06	<0.05
Aberdeen Intake Works	C0999	21/05/2024	0.03 ± 0.02	<0.03
Brushy Hill Reserve	C1000	28/05/2024	<0.03	0.03 ± 0.01

Report prepared by:



Steph Cowling
23/07/2024

Report checked by:



Michael Corry
23/07/2024