



CERTIFICATE OF ANALYSIS

Batch No:	19-04755	<i>Page</i>	Page 1 of 3
<i>Final Report</i>	734433	<i>Laboratory</i>	Scoresby Laboratory
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<i>PO No:</i>	Not Available	<i>Date Sampled:</i>	09-Jan-2019 - 11-Jan-2019
<i>Sampler Name:</i>		<i>Date Samples Received:</i>	17-Jan-2019
<i>ALS Program Ref:</i>	VICTORIA-UNI	<i>Date Issued:</i>	21-Jan-2019
<i>Program Description:</i>	Analysis		
<i>Client Ref:</i>	PFAS ANALYSIS		

[The hash \(#\) below indicates methods not covered by NATA accreditation in the performance of this service.](#)

Analysis	Method	Laboratory	Analysis	Method	Laboratory
PFAS	EP231X	Scoresby			

Signatories

Name	Title	Name	Title
Yalin Wei	Analyst		



Accreditation No. 992
Accredited for compliance with
ISO/IEC 17025 - Testing



Samples not collected by ALS and are tested as received.

Soil microbiological testing was commenced within 4 days from the day collected unless otherwise stated.

MM524: Plate count results <10 per mL and >300 per mL are deemed as approximate.

MM526: Plate count results <2,500 per mL and >250,000 per mL are deemed as approximate.

Calculated results are based on raw data.

Legionella species refers to Legionella species other than Legionella pneumophila

Measurement Uncertainties values for your compliance results are available at this link



Sample No	Site Code	Site Description	Sample Type	Sampled Date/Time
5962720	F1		WATER	09/01/19
5962721	S1		WATER	09/01/19
5962722	S2		WATER	09/01/19
5962723	S3		WATER	09/01/19

Sample No. Site Code Units		5962720	5962721	5962722	5962723
Analysis	Analyte				
PFAS	Perfluorobutane sulfonic acid (PFBS)	ug/L	<0.06	<0.05	<0.06
PFAS	Perfluoropentane sulfonic acid (PFPeS)	ug/L	0.05	0.04	0.03
PFAS	Perfluorohexane sulfonic acid (PFHxS)	ug/L	0.38	0.37	0.06
PFAS	Perfluoroheptane sulfonic acid (PFHpS)	ug/L	0.07	0.08	<0.02
PFAS	Perfluorooctane sulfonic acid (PFOS)	ug/L	2.3	2.4	0.30
PFAS	Perfluorodecane sulfonic acid (PFDS)	ug/L	<0.02	<0.02	<0.02
PFAS	Perfluorobutanoic acid (PFBA)	ug/L	<0.1	<0.1	<0.1
PFAS	Perfluoropentanoic acid (PFPeA)	ug/L	0.02	0.02	0.02
PFAS	Perfluorohexanoic acid (PFHxA)	ug/L	0.18	0.14	0.15
PFAS	Perfluoroheptanoic acid (PFHpA)	ug/L	0.04	0.04	0.02
PFAS	Perfluorooctanoic acid (PFOA)	ug/L	0.11	0.10	0.01
PFAS	Perfluorononanoic acid (PFNA)	ug/L	<0.02	<0.02	<0.02
PFAS	Perfluorodecanoic acid (PFDA)	ug/L	<0.02	<0.02	<0.02
PFAS	Perfluoroundecanoic acid (PFUnDA)	ug/L	<0.02	<0.02	<0.02
PFAS	Perfluorododecanoic acid (PFDoDA)	ug/L	<0.02	<0.02	<0.02
PFAS	Perfluorotridecanoic acid (PFTriDA)	ug/L	<0.02	<0.02	<0.02
PFAS	Perfluorotetradecanoic acid (PFTeDA)	ug/L	<0.05	<0.05	<0.05
PFAS	Perfluorooctane sulfonamide (FOSA)	ug/L	<0.02	<0.02	<0.02
PFAS	N-Methyl perfluorooctane sulfonamide (MeFOSA)	ug/L	<0.05	<0.05	<0.05
PFAS	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	ug/L	<0.05	<0.05	<0.05
PFAS	N-Methyl perfluorooctane sulfonamidoethanol	ug/L	<0.05	<0.05	<0.05
PFAS	N-Ethyl perfluorooctane sulfonamidoethanol	ug/L	<0.05	<0.05	<0.05
PFAS	N-Methyl perfluorooctane sulfonamidoacetic acid	ug/L	<0.02	<0.02	<0.02
PFAS	N-Ethyl perfluorooctane sulfonamidoacetic acid	ug/L	<0.02	<0.02	<0.02
PFAS	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	ug/L	<0.05	<0.05	<0.05
PFAS	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	ug/L	<0.05	<0.05	<0.05
PFAS	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	ug/L	<0.05	<0.05	<0.05
PFAS	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	ug/L	<0.05	<0.05	<0.05
PFAS	Sum of PFAS	ug/L	3.15	3.19	0.59
PFAS	Sum of PFHxS and PFOS	ug/L	2.68	3.77	0.36
PFAS	Sum of PFAS (WA DER List)	ug/L	3.03	4.07	0.56
PFAS	PFOS Surrogate	%	110	96	94
PFAS	PFOA Surrogate	%	99	97	98



Sample No	Site Code	Site Description	Sample Type	Sampled Date/Time
5962724		F2	WATER	10/01/19
5962725		S4	WATER	10/01/19
5962726		S5	WATER	11/01/19

Analysis - Analyte		Sample No. Site Code Units	5962724	5962725	5962726
PFAS - Perfluorobutane sulfonic acid (PFBS)		ug/L	<0.05	<0.06	<0.05
PFAS - Perfluoropentane sulfonic acid (PFPeS)		ug/L	0.04	0.05	0.03
PFAS - Perfluorohexane sulfonic acid (PFHxS)		ug/L	0.30	0.40	<0.05
PFAS - Perfluoroheptane sulfonic acid (PFHpS)		ug/L	0.06	0.05	<0.02
PFAS - Perfluorooctane sulfonic acid (PFOS)		ug/L	2.8	2.1	<0.04
PFAS - Perfluorodecane sulfonic acid (PFDS)		ug/L	<0.02	<0.02	<0.02
PFAS - Perfluorobutanoic acid (PFBA)		ug/L	<0.1	<0.1	<0.1
PFAS - Perfluoropentanoic acid (PFPeA)		ug/L	0.02	0.02	<0.02
PFAS - Perfluorohexanoic acid (PFHxA)		ug/L	0.16	0.16	0.14
PFAS - Perfluoroheptanoic acid (PFHpA)		ug/L	0.04	0.04	<0.02
PFAS - Perfluorooctanoic acid (PFOA)		ug/L	0.09	0.10	<0.01
PFAS - Perfluorononanoic acid (PFNA)		ug/L	<0.02	<0.02	<0.02
PFAS - Perfluorodecanoic acid (PFDA)		ug/L	<0.02	<0.02	<0.02
PFAS - Perfluoroundecanoic acid (PFUnDA)		ug/L	<0.02	<0.02	<0.02
PFAS - Perfluorododecanoic acid (PFDoDA)		ug/L	<0.02	<0.02	<0.02
PFAS - Perfluorotridecanoic acid (PFTrDA)		ug/L	<0.02	<0.02	<0.02
PFAS - Perfluorotetradecanoic acid (PFTeDA)		ug/L	<0.05	<0.05	<0.05
PFAS - Perfluorooctane sulfonamide (FOSA)		ug/L	<0.02	<0.02	<0.02
PFAS - N-Methyl perfluorooctane sulfonamide (MeFOSA)		ug/L	<0.05	<0.05	<0.05
PFAS - N-Ethyl perfluorooctane sulfonamide (EtFOSA)		ug/L	<0.05	<0.05	<0.05
PFAS - N-Methyl perfluorooctane sulfonamidoethanol		ug/L	<0.05	<0.05	<0.05
PFAS - N-Ethyl perfluorooctane sulfonamidoethanol		ug/L	<0.05	<0.05	<0.05
PFAS - N-Methyl perfluorooctane sulfonamidoacetic acid		ug/L	<0.02	<0.02	<0.02
PFAS - N-Ethyl perfluorooctane sulfonamidoacetic acid		ug/L	<0.02	<0.02	<0.02
PFAS - 4:2 Fluorotelomer sulfonic acid (4:2 FTS)		ug/L	<0.05	<0.05	<0.05
PFAS - 6:2 Fluorotelomer sulfonic acid (6:2 FTS)		ug/L	<0.05	<0.05	<0.05
PFAS - 8:2 Fluorotelomer sulfonic acid (8:2 FTS)		ug/L	<0.05	<0.05	<0.05
PFAS - 10:2 Fluorotelomer sulfonic acid (10:2 FTS)		ug/L	<0.05	<0.05	<0.05
PFAS - Sum of PFAS		ug/L	3.51	2.92	0.17
PFAS - Sum of PFHxS and PFOS		ug/L	3.10	2.50	<0.01
PFAS - Sum of PFAS (WA DER List)		ug/L	3.41	2.82	0.14
PFAS - PFOS Surrogate		%	91	98	98
PFAS - PFOA Surrogate		%	98	100	99

A blank space indicates no test performed.