V&M Analytical Toxicology Laboratory Services (Pty) Ltd

83 Victoria Street, George, 6529 ● PostNet Suite 254, P. Bag X6590, George, 6530
Tel: +27 (0) 44 874 8484/ 873 4153 ● Fax: +27 (0) 86 725 8919
Mobile: +27 (0) 82 520 2210/ +27 (0) 82 775 6932
Accurate ●Reproducible ●Cost effective ●**RESULTS** ●On time-Every time

TEST REPORT			
Date	02 September 2021	**Report No.**	210902 VM24719 m
To	Marine & Estuarine Research (MER)	**Sample(s) received**	20 August 2021
Contact Person	Nicolette Forbes Managing Director & Senior Scientist	**Tel. No.**	031 572 2705
Email	nicolette@mer.co.za		

Description of samples received: **Purchase Order:** (awaiting)

VM no.	Date	Project Code	Site Code	Type
24719/01	18/8/2021	UL21/21	B2N	Water
24719/02	18/8/2021	UL21/21	B2N	Sediment
24719/03	17/8/2021	UL21/21	B3N	Water
24719/04	17/8/2021	UL21/21	B3N	Sediment
24719/05	17/8/2021	UL21/21	B4N	Water
24719/06	17/8/2021	UL21/21	B4N	Sediment
24719/07	17/8/2021	UL21/21	B5N	Water
24719/08	17/8/2021	UL21/21	B5N	Sediment
24719/09	17/8/2021	UL21/21	B6N	Water
24719/10	17/8/2021	UL21/21	B6N	Sediment
24719/11	17/8/2021	UL21/21	B7N	Water
24719/12	17/8/2021	UL21/21	B7N	Sediment
24719/13	17/8/2021	UL21/21	B8N	Water
24719/14	17/8/2021	UL21/21	B8N	Sediment
24719/15	17/8/2021	UL21/21	B9N	Water
24719/16	17/8/2021	UL21/21	B9N	Sediment
24719/17	18/8/2021	UL21/21	B1S	Water
24719/18	18/8/2021	UL21/21	B1S	Sediment
24719/19	18/8/2021	UL21/21	B2S	Water
24719/20	18/8/2021	UL21/21	B2S	Sediment
24719/21	17/8/2021	UL21/21	B3S	Water
24719/22	17/8/2021	UL21/21	B3S	Sediment
24719/23	17/8/2021	UL21/21	B4S	Water
24719/24	17/8/2021	UL21/21	B4S	Sediment
24719/25	17/8/2021	UL21/21	B5S	Water
24719/26	17/8/2021	UL21/21	B5S	Sediment
24719/27	17/8/2021	UL21/21	B6S	Water
24719/28	17/8/2021	UL21/21	B6S	Sediment
24719/29	17/8/2021	UL21/21	B7S	Water
24719/30	17/8/2021	UL21/21	B7S	Sediment
24719/31	18/8/2021	UL21/21	UE1	Water
24719/32	18/8/2021	UL21/21	UE1	Sediment
24719/33	18/8/2021	UL21/21	UE5	Water
24719/34	18/8/2021	UL21/21	UE5	Sediment
24719/35	18/8/2021	UL21/21	UE1/CS	Sediment

Analysis requested: Quantitative determination of selected elements by ICP-MS

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Water samples

Analysis results: **Date Tested:** 2021-09-01 **Test Method:** WIN-VM-085

V&M No.	Date	Project Code	Site Code	Mn (ng/ml)	Cu (ng/ml)	Zn (ng/ml)	As (ng/ml)
24719/01	18/8/2021	UL21/21	B2N	<LOQ	<LOQ	ND	2,0
24719/03	17/8/2021	UL21/21	B3N	1,7	1,2	ND	2,1
24719/05	17/8/2021	UL21/21	B4N	<LOQ	<LOQ	ND	2,0
24719/07	17/8/2021	UL21/21	B5N	1,4	<LOQ	ND	2,0
24719/09	17/8/2021	UL21/21	B6N	<LOQ	<LOQ	ND	1,9
24719/11	17/8/2021	UL21/21	B7N	1,3	<LOQ	ND	1,9
24719/13	17/8/2021	UL21/21	B8N	<LOQ	<LOQ	ND	1,9
24719/15	17/8/2021	UL21/21	B9N	<LOQ	<LOQ	ND	1,8
24719/17	18/8/2021	UL21/21	B1S	2,4	<LOQ	ND	2,0
24719/19	18/8/2021	UL21/21	B2S	1,0	<LOQ	ND	2,0
24719/21	17/8/2021	UL21/21	B3S	1,9	1,3	ND	2,2
24719/23	17/8/2021	UL21/21	B4S	2,4	<LOQ	ND	2,1
24719/25	17/8/2021	UL21/21	B5S	1,5	<LOQ	ND	2,1
24719/27	17/8/2021	UL21/21	B6S	1,0	<LOQ	ND	1,9
24719/29	17/8/2021	UL21/21	B7S	3,0	<LOQ	ND	1,8
24719/31	18/8/2021	UL21/21	UE1	393,4	1,2	ND	14,0
24719/33	18/8/2021	UL21/21	UE5	452,9	9,0	29,3	15,1

LOD – Limit of detection, **LOQ** – Limit of quantification

Note:

- A reading of between LOQ and LOD is reported as **<LOQ**

Limit of quantification (ng/ml)

Matrix	Mn	Cu	Zn	As
Water	1,0 ng/ml	1,0 ng/ml	1,0 ng/ml	1,0 ng/ml

Sediment samples

Analysis results: **Date Tested:** 2021-09-01 **Test Method:** WIN-VM-085

V&M No.	Date	Project Code	Site Code	Mn (µg/g)	Cu (µg/g)	Zn (µg/g)	As (µg/g)
24719/02	18/8/2021	UL21/21	B2N	17,74	0,14	0,50	0,21
24719/04	17/8/2021	UL21/21	B3N	9,11	0,03	0,49	0,22
24719/06	17/8/2021	UL21/21	B4N	11,00	0,07	0,78	0,34
24719/08	17/8/2021	UL21/21	B5N	13,67	0,07	0,68	0,35
24719/10	17/8/2021	UL21/21	B6N	11,84	0,06	0,68	0,32
24719/12	17/8/2021	UL21/21	B7N	4,84	0,04	0,40	0,23
24719/14	17/8/2021	UL21/21	B8N	5,09	0,03	0,53	0,25
24719/16	17/8/2021	UL21/21	B9N	3,86	0,05	0,58	0,31
24719/18	18/8/2021	UL21/21	B1S	19,74	0,05	0,88	0,38
24719/20	18/8/2021	UL21/21	B2S	19,87	ND	0,02	ND

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V&M No.	Date	Project Code	Site Code	Mn (µg/g)	Cu (µg/g)	Zn (µg/g)	As (µg/g)
24719/22	17/8/2021	UL21/21	B3S	18,40	0,06	0,81	0,50
24719/24	17/8/2021	UL21/21	B4S	7,85	0,18	0,74	0,21
24719/26	17/8/2021	UL21/21	B5S	14,23	0,09	0,83	0,32
24719/28	17/8/2021	UL21/21	B6S	21,82	0,07	1,26	0,62
24719/30	17/8/2021	UL21/21	B7S	23,62	0,08	1,15	0,48
24719/32	18/8/2021	UL21/21	UE1	19,29	0,06	0,74	0,32
24719/34	18/8/2021	UL21/21	UE5	80,11	1,47	12,00	0,16
24719/35	18/8/2021	UL21/21	UE1/CS	56,45	0,14	1,25	0,42

LOD – Limit of detection, **LOQ** – Limit of quantification

Note:

- A reading of between LOQ and LOD is reported as **<LOQ**

Limit of quantification (µg/g)

Matrix	Mn	Cu	Zn	As
Sediment	0,01 µg/g	0,01 µg/g	0,01 µg/g	0,01 µg/g

Should you have any queries about the test results, please contact V&M-ATLS.

Kind regards

Mauritz Wentzel (Ph. D.) Pr. Sci. Nat.