

Certificate Of Analysis

Company: Swift Silliker Pty Ltd T/A Mérieux NutriSciences - Cape Town
Address: 7 Warrington Road
Claremont
Cape Town
7708

Service Request Number: PW-2021-29258
Date of Certificate: 09-June-2021
Date Completed: 09-June-2021
Date of Sampling: 02-June-2021
Date of Reveal at Lab: 04-June-2021

Contact: Tarryn-Lee Benjamin

Sample Identification -OMS-21-02009-Garden Route- Final Effluent GR-O 975 WTP Natures Valley

Sample Number: PW-21-99674 **Sample Condition:** **Remark:**

Physical / Aesthetic Parameters	Method	Unit	Limits - SANS 241 2015	Result	Analysis Date
Colour (True)	M14	Pt-Co-true	<15	<10.0	2021-06-07
Electrical Conductivity @ 25°C	M4	mS/m	<170	24.8	2021-06-07
pH @ 25°C	M6	pH units	5 - 9.7	7.96	2021-06-07
Total Dissolved Solids*	Calc	mg/L	<1 200	166	2021-06-07
Turbidity	M12	NTU	<5	<0.30	2021-06-07

Chemistry (Macro) Parameters	Method	Unit	Limits - SANS 241 2015	Result	Analysis Date
Ammonia (NH3-N)	M44	mg/L	<1.5	<0.10	2021-06-07
Chloride as Cl-	M44	mg/L	<300	26.9	2021-06-07
Fluoride as F-	M44	mg/L	<1.5	<0.05	2021-06-07
Monochloramine*	M69	mg/L	<3	<0.09	2021-06-09
Nitrate as N	M44	mg/L	<11	<0.10	2021-06-07
Nitrate/Nitrite (No3/No2-N)	Calc	Cal	<1	0	2021-06-07
Nitrite as N	M44	mg/L	<0.9	<0.05	2021-06-07
Sodium as Na	M18	mg/L	<200	35.1	2021-06-07
Sulphate as SO4 ²⁻	M44	mg/L	<250	26.7	2021-06-07
Total Chlorine*	M15	mg/L	<5	<0.2	2021-06-08
Zinc as Zn	M16	mg/L	<5	<0.05	2021-06-08

Chemistry (Micro) Parameters	Method	Unit	Limits - SANS 241 2015	Result	Analysis Date
Aluminium as Al	M16	µg/L	<300	149	2021-06-08
Antimony as Sb*	M16	µg/L	<20	<5.00	2021-06-08
Arsenic as As*	M16	µg/L	<10	<3.00	2021-06-08
Barium as Ba	M16	µg/L	<700	<50.0	2021-06-08
Boron as B	M16	µg/L	<2 400	<100	2021-06-08
Cadmium as Cd	M16	µg/L	<3	<1.00	2021-06-08
Chromium as Cr	M16	µg/L	<50	<2.00	2021-06-08
Copper as Cu	M16	µg/L	<2 000	<20.0	2021-06-08
Cyanide as CN ⁻ *	M55	µg/L	<200	<10.0	2021-06-07
Lead as Pb*	M16	µg/L	<10	<2.00	2021-06-08

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Chemistry (Micro) Parameters	Method	Unit	Limits - SANS 241 2015	Result	Analysis Date
Manganese as Mn	M16	µg/L	<100	32.3	2021-06-08
Mercury as Hg*	M16	µg/L	<6	<1.00	2021-06-08
Nickel as Ni	M16	µg/L	<70	<5.00	2021-06-08
Selenium as Se*	M16	µg/L	<40	<20.0	2021-06-08
Uranium as U*	M16	µg/L	<30	<5.00	2021-06-07

Organic Parameters	Method	Unit	Limits - SANS 241 2015	Result	Analysis Date
Microcystins*	M67	µg/L	<1	<1	2021-06-07
Phenols*	M34	µg/L	<10	<10.0	2021-06-08
Total Organic Carbon	M20	mg/L	<10	2.54	2021-06-04
Total THM ratio*	Calc		<1	0.5	2021-06-07
Trihalomethanes as Total THM	Calc	µg/L		<80.0	2021-06-07

Total Organic Halides (TOX)	Method	Unit	Limits - SANS 241 2015	Result	Analysis Date
Bromodichloromethane	M31	µg/L	<60	<20	2021-06-07
Bromoform	M31	µg/L	<100	<20	2021-06-07
Chloroform	M31	µg/L	<300	42	2021-06-07
Dibromochloromethane	M31	µg/L	<100	<20	2021-06-07

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Contact:	Tarryn-Lee Benjamin	Date of Reival at Lab:	04-June-2021

1. Sampling is outside the laboratory's scope of accreditation. Where applicable, free and total chlorine results are supplied by the sampling officer.
2. This report shall not be reproduced except in full, without written approval from the laboratory.
3. Uncertainties of Measurement, Limits of Detection, and Method Descriptions will be provided upon request.
4. The organization reports results at the 95% confidence interval with a coverage factor $k = 2$. The overlying acceptance criteria for method expanded uncertainty is $< 5\%$. Decision Rule - Results reflecting on the Certificate of Analysis are actual results as obtained at the time of testing, and do not include any uncertainty considerations. The Laboratory does not issue any statement of conformity, unless by prior arrangement.
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6. Parameters indicated by an * are not SANAS accredited and are not included in the SANAS Schedule of Accreditation for this laboratory.
7. Parameters indicated by ** are subcontracted and are not included in the SANAS Schedule of Accreditation for this laboratory.
8. The following has reference:
 - Unless otherwise stated, ICP, HPLC, GC, GC-MS and LC-MS samples have been filtered using a $0.45\mu\text{m}$ filter prior to analysis.
9. In the absence of client specified limits, the limits reflected are based on SANS 241-2015 or General Effluent Standards, as applicable.
10. The quality and integrity of samples submitted has a direct correlation to the results reported. As such, results reflected on this report relate only to the samples as received.
11. Opinions and interpretations expressed herein are outside the scope of SANAS accreditation.



Neil van Kooten
Technical Signatory