



CERTIFICATE OF ANALYSIS

ATTENTION: Seal Water Tech – East London

DATE: 28 February 2019

1. **GENERAL:** Seal – Amalinda – Treated Council – UF & RO Product – Sampled 4 Feb 2019

DETERMINANTS CONSTITUENTS		Results expressed in mg/l unless specifically stated.		
		Treated Council		WHO - QC Standard (Supply Goals)
		UF Product	RO Product	
Conductivity	(μ S/cm)	525	15	< 750
Total Dissolved Solids (TDS @ 105 °C)		339	11	20 to 500
Total Suspended Solids (TSS)		BDL	BDL	Must be Absent
Turbidity (NTU)		0.12	0.09	< 0.50 (Target < 0.20)
Colour (Pt/Co Units)		10	9	< 30 (Target < 20)
Odour – Instrumentation (TON)		3.8	3.1	< 5.0 (Target < 4.0)
pH		7.82	7.69	6.50 to 9.00
Total-Alkalinity		96.6	3.80	20 to 200
Total Hardness (TDH as CaCO ₃)		79.48	0.73	20 to 200
Calcium (as Ca)		14.38	0.21	5 to 80
Magnesium (as Mg)		10.60	0.05	3 to 30
Aluminium (Al)	(μ g/l)	8	BDL	< 150 (Target < 50)
Copper (Cu)	(μ g/l)	14	BDL	< 200
Iron (Fe) Total	(μ g/l)	BDL	BDL	< 200 (Target < 20)
Iron (Fe – Dissolved)	(μ g/l)	BDL	BDL	(Target < 20)
Iron (Fe – Organometallic)	(μ g/l)	BDL	BDL	Problematic Iron
Manganese (Mn – Total)	(μ g/l)	BDL	BDL	< 50 (Target < 10)
Total Heavy Metal Content (As + Cd + Cr + Hg + Pb + Sb + U)	(μ g/l)	BDL	BDL	< 20 (Target = 0)
Potassium (K)		2.53	BDL	\leq 10
Sodium (Na)		78.7	3.16	5 to 100
Chloride (Cl)		86.2	0.30	5 to 100
Fluoride (F)		0.14	BDL	< 0.50
Free & Saline Ammonia (NH _x as N)	(μ g/l)	BDL	BDL	\leq 200 (Target < 20)
Nitrate (NO ₃) + Nitrite (NO ₂) as N		0.36	BDL	< 10 (Target < 5.0)
Sulphate (SO ₄)		37.7	BDL	< 250
Sulphide (R-S-R)	(μ g/l)	BDL	BDL	< 2.0 (Target = 0)
Total Organic Carbon (TOC)		4.92	0.91	Eliminate suspended C
Dissolved Organic Carbon (DOC)		4.92	0.91	< 10 (Target < 5.0)
Tannoids (Tannic Acids) (Total)		BDL	BDL	NS Contribute to DOC

As = Arsenic	Cd = Cadmium	Cr = Chromium	Hg = Mercury	Pb = Lead	Sb = Antimony
TON = Threshold Odour Number		WHO = World Health Organisation		U = Uranium	
BDL = Below Detection Limit		μ g/l = Micrograms per litre (Parts per billion)		mg/l = Milligrams per litre (Parts per million)	
Please Note: This report only relates to the actual water sample supplied and analysed. No responsibility can be accepted, related to the use of these results and recommendations provided.					