

## Test Report

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**Client:** Raydian Power Solutions Pty Ltd  
**Address:** 35-14th Street, Marlboro North, Sandton, Johannesburg  
**Report no:** 48926  
**Project:** Raydian Power Solutions Pty Ltd

**Date of certificate:** 31 January 2018  
**Date accepted:** 26 January 2018  
**Date completed:** 31 January 2018  
**Revision:** 0

Lab no:					4624	
Date sampled:					25-Jan-2018	
Sample type:					Water	
Locality description:					Big Water 2	
Analyses			Unit	Method		
A	pH @ 25°C	pH	ALM 20	4.23	5 - 9.7	7.85
A	Electrical conductivity (EC) @ 25°C	mS/m	ALM 20	9.52	< 170	2.06
A	Total dissolved solids (TDS)	mg/l	ALM 26		< 1200	11
A	Total alkalinity	mg CaCO <sub>3</sub> /l	ALM 01	10.41		6.50
A	Chloride (Cl)	mg/l	ALM 02	11.39	< 300	<0.557
A	Sulphate (SO <sub>4</sub> )	mg/l	ALM 03	9.39	< 500	0.143
A	Nitrate (NO <sub>3</sub> ) as N	mg/l	ALM 06	9.85	< 11	0.274
A	Ammonium (NH <sub>4</sub> ) as N	mg/l	ALM 05	8.59	< 1.5	0.394
A	Fluoride (F)	mg/l	ALM 08	10.11	< 1.5	<0.263
A	Calcium (Ca)	mg/l	ALM 30	8.78		0.467
A	Magnesium (Mg)	mg/l	ALM 30	7.54		0.251
A	Sodium (Na)	mg/l	ALM 30	7.96	< 200	0.917
A	Potassium (K)	mg/l	ALM 30	12.05		2.52
A	Aluminium (Al)	mg/l	ALM 31	8.59	< 0.3	<0.002
A	Iron (Fe)	mg/l	ALM 31	7.97	< 0.3	<0.004
A	Manganese (Mn)	mg/l	ALM 31	8	< 0.1	0.005
A	Chromium (Cr)	mg/l	ALM 31	7.61	< 0.05	<0.003
A	Copper (Cu)	mg/l	ALM 31	4.55	< 2	<0.002
A	Nickel (Ni)	mg/l	ALM 31	7.56	< 0.07	0.080
A	Zinc (Zn)	mg/l	ALM 31	9.31	< 5	0.074
A	Cadmium (Cd)	mg/l	ALM 31	7.89	< 0.003	<0.002
A	Lead (Pb)	mg/l	ALM 31	8.85	< 0.01	<0.004
A	E.coli	CFU/100ml	ALM 40	7.74	0	<1
A	Total coliform	CFU/100ml	ALM 40	7.76	< 10	<1
A	Total hardness	mg CaCO <sub>3</sub> /l	ALM 26			2
A	Total organic carbon (TOC)	mg/l	ALM 63	6.46	< 10	1.61
A	Langelier Saturation Index	LSI	ALM 26			-3.46

A = Accredited N = Non accredited O = Outsourced S = Sub-contracted NR = Not requested RTF = Results to follow NATD = Not able to determine ATR = Alternative test report ; The results relates only to the test item tested.

Results reported against the limit of detection.

Results marked 'Not SANAS Accredited' in this report are not included in the SANAS Schedule of Accreditation for this laboratory.

Uncertainty of measurement available on request for all methods included in the SANAS Schedule of Accreditation.