

CHEMICAL ANALYSIS REPORT

LOW ECOLOGICAL SERVICES Pty Ltd

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REPORT CODE: NT45075
Report Date: 12/02/2016
Samples Received: 28/01/2016
Number of Samples: 1

Report Distribution:
Jeremy Snowdon-James
Environmental Consultant

Purchase Order: _____
Project: White Range - ADWQG GP + 8 metals 2 **Tel:** 0889555222
Cost Code: _____ **Fax:**

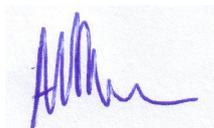
E-mail: jeremy@lowecol.com.au

Report Details: **NATA ACCREDITATION No: 14610**
Test results only apply to samples received
Samples were analysed between 28/01/16 and 12/02/16
Water samples will be discarded one month from date of report

Comments:

Samples with concentrations greater than the linear working range (>LWR) of the ICPMS were reanalysed by ICPOES. These samples were incorrectly preserved for Mercury analysis. Mercury data is indicative only.

Authorisation:



Andrew McKeon



WORLD RECOGNISED
ACCREDITATION

Accredited for compliance with ISO/IEC
17025

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NORTHERN TERRITORY ENVIRONMENTAL LABORATORIES

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Methodology:

Analysis	Analytical Method	Technique	Accuracy/ Precision +/-%	Detection Limit	Data Units
pH	ALK1	EA	10	0.1	units
EC	ALK1	EA	10	1	µS/cm
Alkalinity	ALK1	EA	10	1	mg/L
CO3	ALK1	EA	10	1	mg/L
HCO3	ALK1	EA	10	1	mg/L
OH	ALK1	EA	10	1	mg/L
Turbidity	TURB1	CA	10	1	NTU
True Colour	COLOUR	SA	10	5	units Pt-Co
TSS	TSSTDS	GRAV	10	10	mg/L
TDS	TSSTDS	GRAV	10	10	mg/L
NO2_N	FIAS_4	FIA	10	0.005	mg/L
NO2	FIAS_4	FIA	10	0.02	mg/L
NO3_N	FIAS_4	FIA	10	0.005	mg/L
NO3	FIAS_4	FIA	10	0.02	mg/L
NH3_N	NH3_N	FIA	10	0.005	mg/L
PO4_P	FIAS_4	FIA	10	0.005	mg/L
Cl	FIAS_4	FIA	10	0.1	mg/L
F	FISE1	EA	10	0.1	mg/L
Hardness	TH1	CALC.	10	0.1	mg/L
Ca_F	W108I	ICPOES	10	0.1	mg/L
K_F	W108I	ICPOES	10	0.1	mg/L
Mg_F	W108I	ICPOES	10	0.1	mg/L
Na_F	W108I	ICPOES	10	0.1	mg/L
SiO2	W108I	ICPOES	10	0.2	mg/L
SO4_F	W108I	ICPOES	10	0.1	mg/L
As_T	W200M	ICPMS	10	0.05	µg/L
Cd_T	W200M	ICPMS	10	0.02	µg/L
Cr_T	W200M	ICPMS	10	0.1	µg/L
Cu_T	W200M	ICPMS	10	0.01	µg/L
Cu_T	W200I	ICPOES	10	0.005	mg/L
Hg_T	W200M	ICPMS	10	0.02	µg/L
Ni_T	W200M	ICPMS	10	0.01	µg/L
Pb_T	W200M	ICPMS	10	0.01	µg/L
Zn_T	W200M	ICPMS	10	0.1	µg/L

NORTHERN TERRITORY ENVIRONMENTAL LABORATORIES

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Project: White Range - ADWQG GP + 8 metals 21/01/2016

Element:	pH	EC	Alkalinity	CO3	HCO3	OH	Turbidity	True Colour	TSS
Method:	ALK1	ALK1	ALK1	ALK1	ALK1	ALK1	TURB1	COLOUR	TSSTDS
Units:	units	µS/cm	mg/L	mg/L	mg/L	mg/L	NTU	units Pt-Co	mg/L
Sample ID									
WR-B-DS 21/01/2016	3.8	316	<1	<1	<1	<1	10	<5	40

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Element:	TDS	NO2_N	NO2	NO3_N	NO3	NH3_N	PO4_P	Cl	F
Method:	TSSTDS	FIAS_4	FIAS_4	FIAS_4	FIAS_4	NH3_N	FIAS_4	FIAS_4	FISE1
Units:	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Sample ID									
WR-B-DS 21/01/2016	220	<0.005	<0.02	5.52	24.4	0.080	0.005	4.3	0.4

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Project: White Range - ADWQG GP + 8 metals 21/01/2016

Element:	Hardness	Ca_F	K_F	Mg_F	Na_F	SiO2	SO4_F	As_T	Cd_T
Method:	TH1	W108I	W108I	W108I	W108I	W108I	W108I	W200M	W200M
Units:	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L	µg/L
Sample ID									
WR-B-DS 21/01/2016	65.4	13.0	2.5	8.0	8.3	28.0	88.4	0.15	0.08

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Project: White Range - ADWQG GP + 8 metals 21/01/2016

Element:	Cr_T	Cu_T	Cu_T	Hg_T	Ni_T	Pb_T	Zn_T
Method:	W200M	W200M	W200I	W200M	W200M	W200M	W200M
Units:	µg/L	µg/L	mg/L	µg/L	µg/L	µg/L	µg/L
Sample ID							
WR-B-DS 21/01/2016	1.0	>LWR	7.44	<0.02	12.5	5.78	69.1