RESULTS OF WATER ANALYSIS

1 sample supplied by JR Richards & Sons Pty Ltd on 18/03/2021. Lab Job No. K4850.
Samples submitted by Indika Kelasekara. Your Job: Leachate Dam - 16/03/2021
15-19 Brickworks Lane SOUTH GRAFTON NSW 2461

Parameter	Methods reference	Sample 1 Leachate Dam - Grafton ORF
	Job No.	*K4850/1*
pH	APHA 4500-H^+-B	7.41
Conductivity (EC) (dS/m)	APHA 2510-B	2.928
Total Dissolved Salts (mg/L)	** Calculation using EC x 680	1,991
Total Suspended Solids (mg/L)	GFC equiv. filter - APHA 2540-D	130
Bicarbonate (Alkalinity) (mg/L $CaCO_3$ equivalent)	** Total Alkalinity - APHA 2320	689
Carbonate (mg/L $CaCO_3$ equivalent)	** Residual Alkalinity - APHA 2320	1378
Biochemical Oxygen Demand$_5$ (mg/L O_2)	APHA 5210-B	557
Total Phosphorus (mg/L P)	In house method W4	17.5
Phosphate (mg/L P)	APHA 4500 P-G	14.3
Total Nitrogen (mg/L N)	In house method W4	81.1
Total Kjeldahl Nitrogen (mg/L N)	** Calculation: TN – NOx	81.0
Nitrate (mg/L N)	APHA 4500 NO_3^--F	<0.05
Nitrite (mg/L N)	APHA 4500 NO_2^--I	0.234
Ammonia (mg/L N)	APHA 4500 NH_3-H	33.3

Notes:

1. 1 mg/L (milligram per litre) = 1 ppm (part per million) = 1000 μg/L (micrograms per litre) = 1000 ppb (part per billion).
2. For conductivity 1 dS/m = 1 mS/cm = 1000 μS/cm.
3. Analysis performed according to APHA (2017) 'Standard Methods for the Examination of Water & Wastewater', 23rd Edition, except where stated otherwise.
4. Analysis conducted between sample arrival date and reporting date.
5. ** NATA accreditation does not cover the performance of this service.
6. .. Denotes not requested.
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9. Results relate only to the samples tested.
10. This report was issued on 24/03/2021.

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checked: .....
Graham Lancaster
Laboratory Manager