

CERTIFICATE NO.: 421124
ISSUE DATE: 27/01/16

REVISION NO.: 01
 This certificate supersedes any previous revisions

CLIENT DETAILS: Nick Tokovic
 Sea Minerals Ocean Nutrients Pty Ltd
 GPO Box 5243
 Brisbane 4000

CLIENT REF: **ORDER No:**
DATE RECEIVED: 19/01/2016
DATE SAMPLED:
TEST DATE: Sample tested between date received and reported.

CONDITIONS OF SAMPLE: Receipt Temperature: Room Temperature
 Storage Temperature: Ambient

RESULTS OF ANALYSIS:

Test	Method Code	Sample Description Sample Time Unit	421124-1 Edge Electrolytes
Sodium (Na)	IND041	mg/kg	3,600
Potassium (K)	IND041	mg/kg	3,750
Calcium (Ca)	IND041	mg/kg	150
Magnesium (Mg)	IND041	mg/kg	7,930
Sulphur (S)	IND041	mg/kg	3,020
Sulphur as SO ₄ #	IND041	mg/kg	9,060
Lithium (Li)*	IND041	mg/kg	<2.0
Boron (B)	IND041	mg/kg	26.9
Chloride	ES045	mg/kg	25,000
Silver (Ag)*	IND042	mg/kg	<0.1
Aluminium (Al)*	IND042	mg/kg	19.0
Arsenic (As)*	IND042	mg/kg	<0.5
Beryllium (Be)*	IND042	mg/kg	<0.10
Barium (Ba)*	IND042	mg/kg	1.6
Cadmium (Cd)*	IND042	mg/kg	<0.1
Cobalt (Co)*	IND042	mg/kg	<0.1
Chromium (Cr)*	IND042	mg/kg	0.76
Copper (Cu)*	IND042	mg/kg	<0.5
Mercury (Hg)*	IND042	mg/kg	<0.10
Molybdenum (Mo)*	IND042	mg/kg	<0.1
Nickel (Ni)*	IND042	mg/kg	0.30
Lead (Pb)*	IND042	mg/kg	<0.1
Scandium (Sc)*	IND042	mg/kg	<0.050
Selenium (Se)*	IND042	mg/kg	<0.5
Tin (Sn)*	IND042	mg/kg	<0.5
Zinc (Zn)*	IND042	mg/kg	1.5
Titanium (Ti)*	IND042	mg/kg	0.92
Vanadium (V)*	IND042	mg/kg	<0.10
Gallium(Ga) ICP-MS*	IND042	mg/kg	0.42
Rubidium (Rb)*	IND042	mg/kg	1.8

CERTIFICATE NO.: 421124

Test	Method Code	Sample Description Sample Time Unit	421124-1 Edge Electrolytes
Strontium (Sr)*	IND042	mg/kg	2.4
Yttrium (Y)*	IND042	mg/kg	<0.050
Zirconium (Zr)*	IND042	mg/kg	0.27
Niobium (Nb)*	IND042	mg/kg	<0.050
Rhodium (Rh)*	IND042	mg/kg	<0.050
Palladium (Pd)*	IND042	mg/kg	<0.050
Indium (In)*	IND042	mg/kg	<0.050
Antimony (Sb)*	IND042	mg/kg	<0.1
Tellurium (Te)*	IND042	mg/kg	<0.050
Caesium (Cs)*	IND042	mg/kg	<0.050
Lanthanum (La)*	IND042	mg/kg	<0.050
Cerium (Ce)*	IND042	mg/kg	<0.050
Praseodymium (Pr)*	IND042	mg/kg	<0.050
Neodymium (Nd)*	IND042	mg/kg	<0.050
Samarium (Sm)*	IND042	mg/kg	<0.050
Europium (Eu)*	IND042	mg/kg	<0.050
Gadolinium (Gd)*	IND042	mg/kg	<0.050
Terbium (Tb)*	IND042	mg/kg	<0.050
Dysprosium (Dy)*	IND042	mg/kg	<0.050
Holmium (Ho)*	IND042	mg/kg	<0.050
Erbium (Er)*	IND042	mg/kg	<0.050
Thulium (Tm)*	IND042	mg/kg	<0.050
Ytterbium (Yb)*	IND042	mg/kg	<0.050
Lutetium (Lu)*	IND042	mg/kg	<0.050
Hafnium (Hf)*	IND042	mg/kg	<0.10
Tantalum (Ta)*	IND042	mg/kg	<0.050
Tungsten (W)*	IND042	mg/kg	<0.050
Platinum (Pt)*	IND042	mg/kg	<0.050
Thallium (Tl)*	IND042	mg/kg	<0.050
Bismuth (Bi)*	IND042	mg/kg	<0.10
Thorium (Th)*	IND042	mg/kg	<0.050
Uranium (U)*	IND042	mg/kg	<0.050
Iron (Fe)	IND041	mg/kg	25.2
Manganese (Mn)	IND041	mg/kg	1.1
Phosphorus (P)	IND041	mg/kg	92.6
Silicon (Acid Soluble)	IND041	mg/kg	202
Fluoride (1:5)	ENV221	mg/kg	2.40
Indium (In)*	IND042	mg/kg	<0.050
Rubidium (Rb)*	IND042	mg/kg	1.8
Gold (Au)	IND042	mg/kg	<1.0
Germanium (Ge)	IND042	mg/kg	<0.050
Iodine	IND042	mg/kg	0.34
Rhenium (Re)	IND042	mg/kg	<0.050
Ruthenium (Ru)	IND042	mg/kg	<0.05

DEFINITIONS: < : Less than, > : Greater than, - : Not Tested, DWB : Dry Weight Basis.

* Test not covered by NATA scope of accreditation.

Result derived from calculation.

Results were reported on an "as received" basis unless otherwise indicated.
Sampling was conducted by the customer and results reported pertain only to the samples submitted.
Responsibility for representative sampling rests with the customer.



Zhen Guo, Chemist
(Brisbane)