

**SEAAGRI SOLUTIONS LLC  
MICHAEL SILECK  
10150 CEDAR RIDGE DR  
ALPHARETTA GA 30004**

**REPORT OF ANALYSIS**

For: (27137) SEAAGRI SOLUTIONS LLC  
Sea-90 Liquid Mineralizer Concentrate  
Ocean Water Concentrate

Analysis	Level Found	Reporting			Analyst- Date	Verified- Date
	As Received	Units	Limit	Method		
Sample ID: <b>Sea-90 Liquid Concentrate</b>	Lab Number: <b>70123020</b>	Date Sampled: <b>2022-05-27</b>				
Total dissolved solids	335000	mg/L	10	SM 2540 C-(1997)	Mmg9-2022/06/02	mgn8-2022/06/02
Nitrogen (total)	0.37	%	0.01	WC 055	jmr5-2022/06/07	eas2-2022/06/07
Phosphate (P2O5)	n.d.	%	0.10	MWL ME PROC 26	Auto-2022/06/07	eas2-2022/06/07
Potash (K2O)	0.12	%	0.05	MWL ME PROC 26	Auto-2022/06/07	eas2-2022/06/07
Boron (total)	n.d.	ppm	100	MWL ME PROC 26	jdg9-2022/06/07	eas2-2022/06/07
Sulfur (total)	0.20	%	0.05	MWL ME PROC 26	jdg9-2022/06/07	eas2-2022/06/07
Magnesium (total)	0.24	%	0.01	MWL ME PROC 26	jdg9-2022/06/07	eas2-2022/06/07
Sodium (total)	9.55	%	0.01	MWL ME PROC 26	jdg9-2022/06/07	eas2-2022/06/07
Iron (total)	n.d.	ppm	50.0	MWL ME PROC 26	jdg9-2022/06/07	eas2-2022/06/07
Calcium (total)	0.11	%	0.01	MWL ME PROC 26	jdg9-2022/06/07	eas2-2022/06/07
Manganese (total)	n.d.	ppm	20.0	MWL ME PROC 26	jdg9-2022/06/07	eas2-2022/06/07
Zinc (total)	n.d.	ppm	20.0	MWL ME PROC 26	jdg9-2022/06/07	eas2-2022/06/07
Copper (total)	n.d.	ppm	20.0	MWL ME PROC 26	jdg9-2022/06/07	eas2-2022/06/07
Chloride	15.4	%	0.01	Soil Sci. & Plant Anal. 1970	gmb3-2022/06/08	eas2-2022/06/08
pH	8.20	S.U.	0.10	SM 4500-H+ B-(2011)	Mmg9-2022/06/15	mgn8-2022/06/15

The result(s) issued on this report only reflect the analysis of the sample(s) submitted.

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REPORT NUMBER

**22-153-4114 v2**

REPORT DATE  
**Jun 15, 2022**

SEND TO  
**27137**

RECEIVED DATE  
**May 31, 2022**



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ISSUE DATE  
**Jun 15, 2022**

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	As Received	Units	Limit	Method		

This report was reissued on 2022-06-15 16:57:10 by mgn8 for the following reason:

pH added on.,.

All results are reported on an AS RECEIVED basis., n.d. = not detected , ppm = parts per million, ppm = mg/kg

For questions please contact:

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Account Manager  
cparsons@midwestlabs.com (402)829-9850

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**Detailed Method Description(s)****Total dissolved solids (TDS)**

Sample analysis follows MWL EN 015 which is based on Standard Methods (SM) 2540 C. A known volume of an aqueous sample is poured through a pre-weighed filter with a known pore-size. The aqueous sample is evaporated and heated to obtain a solid. The amount of solid material passing through the filter is reported as total dissolved solids (TDS)

**Elemental combustion of Nitrogen and Carbon**

Analysis follows WC 055 where samples are ground to a fine, homogenous consistency and a small amount weighed and introduced into the instrument. The sample is burned in the presence of oxygen to release gases such as carbon dioxide and nitrogen, and the levels of a specific gas determined and reported. Several matrices are analyzed for nitrogen and carbon using this method. Methods are further broken down into:

WC 111, 112 and 114 following AOAC 993.13 (mod) - Nitrogen (total) in Fertilizers

WC 113, 116, and 117 following ASA #9 Chapter 29 and 31 (mod)

WC 115 following TMECC 04.02 (mod)

**ICP Analysis Fertilizers AOAC 985.01 (mod)**

Analysis follows MWL ME 026 which is based on AOAC 985.01. Samples have been prepared using MWL WC 056. Total minerals in fertilizers have been prepared by AOAC 957.02 using mineral acids and heat. Water soluble manganese is prepared by AOAC 972.03 and the other water soluble by AOAC 977.01. Sample analysis involves moving the sample extract into the ICP where it is nebulized and introduced into the high temperature plasma which energizes the electrons of the dissolved minerals/metals. As the energized electrons of the minerals/metals return to ground state, energy is released as light. The emitted wavelength(s) and light intensities are used to identify and quantitate the minerals/metals in the sample

**Chloride by Soil Sci. & Plant Anal. 1970**

Sample analysis follows MWL WC 054 which is based on a method published in the 1970 volume of Soil Science and Plant Analysis pp 1-6. The sample is extracted with dilute sodium hydroxide and a silver nitrate solution is used to titrate the extract to a potentiometric end point.

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**pH**

Sample analysis follows MWL EN 003 which is based on Standard Methods (SM) 4500-H B. Aqueous samples (>20% volume) are allowed to equilibrate at room temperature. A pH meter and probe is calibrated and used to measure the hydronium concentration (pH) of the solution.

**AOAC 957.02 (P2O5 preparation)**

Samples are treated with hydrochloric acid and nitric acid on a hot plate to destroy organic material and dissolve phosphate.

**Fertilizer Prep AOAC 957.02**

Samples are prepared using a combination of nitric acid and heat. The heating takes place in a block digester

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