McGlynn Labs Inc
ENVIRONMENTAL LABORATORIES

For: Raw Living Spiulina
Greenwater Labs
Attn: Mark Aubel
205 Zeagler Dr., Suite 302

From: McGlynn Laboratories Inc
MLI Laboratory Manager: Dr. Sean E. McGlynn
568 Beverly Court
Tallahassee, Fl. 32301
Phone: (850) 570-1476
Email: mcglynnlabs@gmail.com
NELAC ID# E81676

Data Set ID:	GWL051920-C
Report Date:	06/01/20
Sampled by:	client
Analyzed by:	McGlynn Laboratories, according to MLI SOP ver. 15
Sample Received:	05/28/20

Seán E. McGlynn
Laboratory Director
Phone: (850) 570-1476

The analytical results contained within this report meet all NELAP requirements for parameters for which NELAP accredation is required or available. Any deviations from NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval from McGlynn Laboratories

The quality of reagents and media used by MLI is appropriate for the test concerned.

The results in this report relate only to the samples in this report.

Chlorophylls, *McGlynn Laboratories Inc, 568 Beverly Ct., Tallahassee, Florida*

Task: Raw Living Spiulina
Client: Greenwater Labs
DataSetID: GWL051920-C

	Lab ID #	Field Identification Information: Station	Collection: Date	Collection: Time	Repitition		Container	Date received at Laboratory	Purity (chl a; 0.42 =MDL; 2.10 =PQL)	Data Qualifiers
		SSStd							Pass	
		CC 1							Pass	
		Lab Blk 1							0.0	U
		PQL Std							N/A	
1	20-1160C	Kyanos Farms	05/19/20	8:30	NA	1	live wet sample	05/28/20	**20.3%**	
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
		CC 2							Pass	
12										
13										
14										
15										
16										
17										
18										
19										
20	Matrix Sprike	n/a								
21	Matrix Duplicat									
		CC 3							N/A	
		Lab Blk 2							0.0	U

Do not: burn, spindle or mutilate!

Analyst SEM
Date 05/31/20

*The data qualifiers below are used in chemical reports to address issues that might arise concerning the validity of this data. They are placed next to the data in the report as additional information pertaining to the test results they report nonstandard conditions that may compromise the test results.
*The uncertainty, unless otherwise indicated by a disclaimer meets or exceeds the NELAC standards for these analytical methods, 80% to 120% accuracy (%Rec) and +/-20% precision (%RSD)
*Physical conditions in the laboratory during the running of these tests in no way compromised these test results

Data Qualifiers
A: value reported is a mean of two or more samples
B: source method is modified to enhance accuracy
J: estimated value, questionable QA/QC
K: off scale low
L: off scale high
M: Rain event preceding sampling by less than 3 days
N: this analysis is not NELAC certified
O: sampled but analysis lost or not performed
P: results not reported due to matrix interference
Q: sample held beyond the accepted holding time
R: reported value is between the MDL and the PQL
T: reported value is less than the laboratory MDL
U: compound analyzed for but not detected
V: analyte was detected in both the sample and the blank
W: reported value failed some acceptance criteria but passed most QA/QC tests
Y: laboratory analysis was from an improperly preserved sample

FDEP TMDL Data Qualifiers
A: value reported is a mean of two or more samples
B: results based upon colony outside the acceptable range.
F: when reporting species: F indicates the female sex
H: value based on field kit determinations; results may not be accurate
I: reported value is between the MDL and the PQL
J: estimated value
K: off-scale low
L: off-scale high
M: presence of material is verified but not quantified; the actual value is less than the value given.
N: presumptive evidence of presence of material.
O: sampled, but analysis lost or not performed
Q: sample held beyond the accepted holding time
T: value reported is less than the laboratory MDL
U: compound was analyzed for but not detected
V: analyte was detected in both the sample and the associated method blank
Y: laboratory analysis was from an improperly preserved sample
Z: too many colonies were present
?: Data are rejected and should not be used
*: not reported due to interference

FDEP TMDL Field Data Codes
D: measurement was made in the field
E: extra samples were taken at composite stations
R: significant rain in the past 48 hours
!: data deviate from historically established concentration ranges

Data Quality
QA/QC Summary
McGlynn Laboratories Inc, Tallahassee, Florida

Chlorophyll - QA/QC

The Ultimate Quality Assurance and Quality Control Documentation
Quality control for Chlorophyll- Standard Method 10200-H
All testing must meet acceptance criteria or the data will be flagged as questionable in our Report.
This test is run on an Oceanoptics Spectrometer, USB2000, Serial No. USB2E6742

Data Set Id.: **GWL051920-C**

	Volume Filtered (ml)	Abs. 750 nm	Abs. 630 nm	Abs. 647 nm	Abs. 664 nm	chl a tri Exp. Conc (ug/L)	% Rec	
								B
								C
SSStd	10	0.000	0.067	0.399	0.925	10341.4	103.4%	A
Ver Std	10	0.001	0.049	0.109	0.445	5091.2	101.8%	
CC1	10	0.000	0.066	0.384	0.941	10554.2	105.5%	
CC2	10	0.000	0.061	0.388	0.935	10477.4	104.8%	
CC3								
LCSD 1	10	0.000	0.066	0.384	0.941	10554.2		
LCSD 2	10	0.000	0.061	0.388	0.935	10477.4	**MDL**	
LBlk 1	350	0.000	0.000	0.000	0.000	0.0	0.283	
LBlk 2	350	0.000	0.000	0.000	0.000	0.0	0.283	

first sample	% RSD
LCSD 1	
LCSD 2	0.5%

	Lot #	Conc. (ug/L)
SSStd	R101533J	10000
Ver Std	R101533K	5000
CC	R101533J	10000
LCSD	R101533J	10000

Reagents
90% Acetone: R101533K
Saturated Magnesium Carbonate: R191517D

Analyst:	client
Date Filtered:	client
Time Filtered:	client

yes/no	
yes	Holding Time for filtration must be less than 48 hours
yes	Holding Time for extraction, after filtration must be less than 21 days
yes	Magnesium Chloride sprayed on filter
yes	SSStd recovery must be between 80% and 120%
yes	CC recovery must be between 90% and 110%
yes	VerStd recoveries 80% and 120%
yes	LBlk 1 must be run before the samples in this set
yes	LBlk 2 must be run after the samples in this set
yes	Blks, all must be less than MDL (except equipment blank)
yes	Duplicates must have a %RSD between +/- 20%

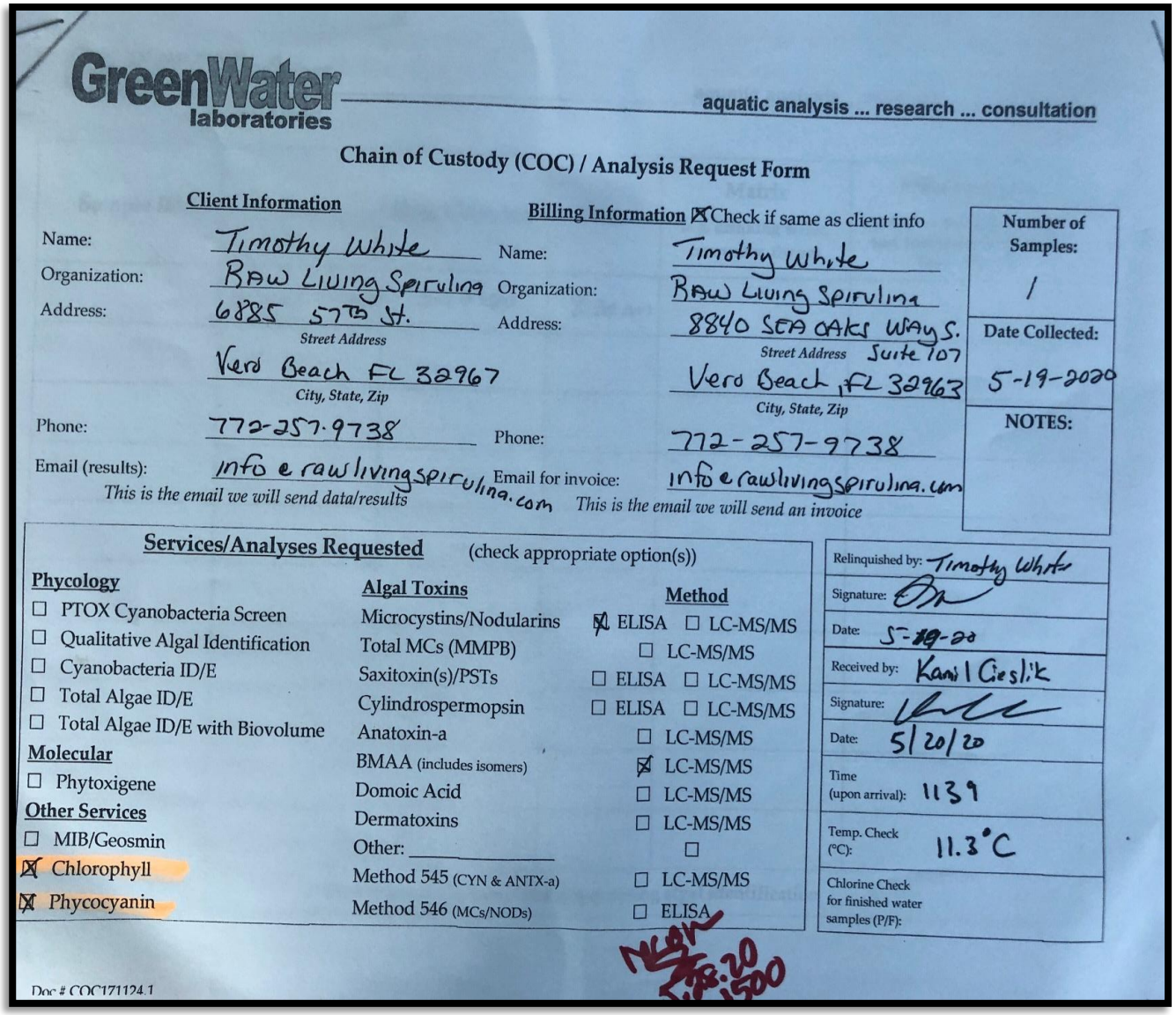
Analyst:	SEM
Date Extracted:	05/30/20
Time Extracted:	14:30

Analyst:	SEM
Date Analyzed:	05/31/20
Time Analyzed:	15:30

All QA/QC samples (listed above) were analyzed consecutively within this sample set between the beginning, end times and date listed on the laboratory bench sheet.

McGlynn Labs Inc.
568 Beverly Ct.
Tallahassee, FL 32301

MLI



GreenWater laboratories

aquatic analysis ... research ... consultation

Chain of Custody (COC) / Analysis Request Form

Client Information

Name: Timothy White
Organization: Raw Living Spirulina
Address: 6885 57th St.
Street Address
Vero Beach FL 32967
City, State, Zip
Phone: 772-257-9738
Email (results): info@rawlivingspirulina.com
This is the email we will send data/results

Billing Information ☒ Check if same as client info

Name: Timothy White
Organization: Raw Living Spirulina
Address: 8840 SEA OATS WAY S. Suite 107
Street Address
Vero Beach, FL 32963
City, State, Zip
Phone: 772-257-9738
Email for invoice: info@rawlivingspirulina.com
This is the email we will send an invoice

Number of Samples:	1
Date Collected:	5-19-2020
NOTES:	

Services/Analyses Requested (check appropriate option(s))

Phycology	**Algal Toxins**	**Method**
☐ PTOX Cyanobacteria Screen	Microcystins/Nodularins	☒ ELISA ☐ LC-MS/MS
☐ Qualitative Algal Identification	Total MCs (MMPB)	☐ LC-MS/MS
☐ Cyanobacteria ID/E	Saxitoxin(s)/PSTs	☐ ELISA ☐ LC-MS/MS
☐ Total Algae ID/E	Cylindrospermopsin	☐ ELISA ☐ LC-MS/MS
☐ Total Algae ID/E with Biovolume	Anatoxin-a	☐ LC-MS/MS
Molecular	BMAA (includes isomers)	☒ LC-MS/MS
☐ Phytoxigene	Domoic Acid	☐ LC-MS/MS
Other Services	Dermatoxins	☐ LC-MS/MS
☐ MIB/Geosmin	Other: _____	☐
☒ Chlorophyll	Method 545 (CYN & ANTX-a)	☐ LC-MS/MS
☒ Phycocyanin	Method 546 (MCs/NODs)	☐ ELISA

Relinquished by:	Timothy White
Signature:	
Date:	5-19-20
Received by:	Kamil Cieslik
Signature:	
Date:	5/20/20
Time (upon arrival):	1139
Temp. Check (°C):	11.3°C
Chlorine Check for finished water samples (P/F):	

NEW 5.18.20 1500

Doc # COC171124.1

Chain of Custody Form (COC)

Chain of Custody Form
(COC)

GreenWater laboratories — aquatic analysis ... research ... consultation

Sample ID	Site	Date Collected	Time	Matrix (e.g. drinking water, raw water, tissue)	**Preservation (e.g. Sodium Thiosulfate, Ascorbic Acid, Sodium bisulfate, Lugol's, frozen, filtered)
	Kyanos Farms	5-19-20	8:30 am		

**Do not freeze the sample(s) if requesting algal identification

Doc # COC171124.1

MLI