



TEST REPORT

THE REPORTED TEST RESULTS RELATE ONLY TO THE ITEM(S) TESTED



Bulk Reef Supply
6325 Sandburg Rd Ste 400
Minneapolis, MN 55427-3629

Request ID:
Date:

R-20180524-010
06/07/2018
Credit Card

Revised:

Client Description Estimated Results Reported In Both PPM and Percent and Report Comment Added
Calcium Chloride

Page 1 of 31

Sample No.	S-180524-015	Customer ID:		
Tests	Results/Units	Method	Estimated Results	
Acid Insoluble	900 ppm	Insoluble residue after acid digestion*	NA	
Acid Insoluble	0.090 %	Insoluble residue after acid digestion*	NA	
Al	<1 ppm	ICP-MS	0.2 ppm	
Al	<0.0001 %	ICP-MS	0.00002%	
As	<1 ppm	ICP-MS	0.2 ppm	
As	<0.0001 %	ICP-MS	0.00002%	
B	<1 ppm	ICP-MS	0 ppm	

Methods noted with an * fall outside of NSL's ISO 17025 Scope of Accreditation.

Definitions: NC - Nonconforming value, Min - Minimum, Max - Maximum. All quantitative analytical results are subject to variability due to the nature of testing. Estimated Uncertainty data is available upon request

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Reporting Officer :

NSL Analytical Services
4450 Cranwood Parkway
Cleveland, Ohio 44128

Carm D'Agostino, Technical Specialist
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<u>Tests</u>		<u>Results/Units</u>	<u>Method</u>	<u>Estimated Results</u>
B		<0.0001 %	ICP-MS	0%
Ca		283000 ppm	ICP	NA
Ca		28.30 %	ICP	NA
Cu		<1 ppm	ICP-MS	0.2 ppm
Cu		<0.0001 %	ICP-MS	0.00002%
Fe		1000 ppm	ICP-MS	NA
Fe		0.10 %	ICP-MS	NA

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Sample No. S-180524-015

Customer ID:

Tests

Results/Units

Method

Estimated Results

Heavy Metals as Pb

<8 ppm

Calculation

4 ppm

Heavy Metals as Pb

<0.0008 %

Calculation

0.0004%

Hg

<1 ppm

Cold Vapor AA

0 ppm

Hg

<0.0001 %

Cold Vapor AA

0 %

Li

<1 ppm

ICP-MS

0.04 ppm

Li

<0.0001 %

ICP-MS

0.000004%

Mg

160 ppm

ICP-MS

NA

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Sample No.	S-180524-015	Customer ID:		
<u>Tests</u>		<u>Results/Units</u>	<u>Method</u>	<u>Estimated Results</u>
Mg		0.016 %	ICP-MS	NA
P		<10 ppm	ICP-MS	0 ppm
P		<0.001 %	ICP-MS	0%
Pb		<1 ppm	ICP-MS	0.6 ppm
Pb		<0.0001 %	ICP-MS	0.00006%
Si		<10 ppm	ICP-MS	0 ppm
Si		<0.001 %	ICP-MS	0%

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<u>Tests</u>	<u>Results/Units</u>	<u>Method</u>	<u>Estimated Results</u>	
Sn	<1 ppm	ICP-MS	0.1 ppm	
Sn	<0.0001 %	ICP-MS	0.00001%	
Water Insoluble	<100 ppm	Insoluble residue after water digestion*	0 ppm	
Water Insoluble	<0.010 %	Insoluble residue after water digestion*	0%	
Zn	<1 ppm	ICP-MS	0 ppm	
Zn	<0.0001 %	ICP-MS	0%	

Certificate of Analysis

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<u>Tests</u>		<u>Results/Units</u>	<u>Method</u>	<u>Estimated Results</u>
Acid Insoluble		800 ppm	Insoluble residue after acid digestion*	NA
Acid Insoluble		0.080 %	Insoluble residue after acid digestion*	NA
Al		2 ppm	ICP-MS	NA
Al		0.0002 %	ICP-MS	NA
As		<1 ppm	ICP-MS	0.5 ppm
As		<0.0001 %	ICP-MS	0.00005%
B		8 ppm	ICP-MS	NA

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<u>Tests</u>		<u>Results/Units</u>	<u>Method</u>	<u>Estimated Results</u>
B		0.0008 %	ICP-MS	NA
Ca		347000 ppm	ICP	NA
Ca		34.70 %	ICP	NA
Cu		<1 ppm	ICP-MS	0.9 ppm
Cu		<0.0001 %	ICP-MS	0.00009%
Fe		1300 ppm	ICP-MS	NA
Fe		0.13 %	ICP-MS	NA

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<u>Tests</u>		<u>Results/Units</u>	<u>Method</u>	<u>Estimated Results</u>
Heavy Metals as Pb		192 ppm	Calculation	NA
Heavy Metals as Pb		0.0192 %	Calculation	NA
Hg		<1 ppm	Cold Vapor AA	0 ppm
Hg		<0.0001 %	Cold Vapor AA	0 %
Li		<1 ppm	ICP-MS	0.5 ppm
Li		<0.0001 %	ICP-MS	0.00005%
Mg		960 ppm	ICP-MS	NA

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Sample No. S-180524-016

Customer ID:

<u>Tests</u>	<u>Results/Units</u>	<u>Method</u>	<u>Estimated Results</u>
Mg	0.096 %	ICP-MS	NA
P	<10 ppm	ICP-MS	0 ppm
P	<0.0010 %	ICP-MS	0%
Pb	<1 ppm	ICP-MS	0.4 ppm
Pb	<0.0001 %	ICP-MS	0.00004%
Si	10 ppm	ICP-MS	NA
Si	0.001 %	ICP-MS	NA

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<u>Tests</u>		<u>Results/Units</u>	<u>Method</u>	<u>Estimated Results</u>
Sn		<1 ppm	ICP-MS	0.1 ppm
Sn		<0.0001 %	ICP-MS	0.00001%
Water Insoluble		300 ppm	Insoluble residue after water digestion*	NA
Water Insoluble		0.030 %	Insoluble residue after water digestion*	NA
Zn		<1 ppm	ICP-MS	0.6 ppm
Zn		<0.0001 %	ICP-MS	0.00006%

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Sample No.	S-180524-017	Customer ID:		
Tests	Results/Units	Method	Estimated Results	
Acid Insoluble	500 ppm	Insoluble residue after acid digestion*	NA	
Acid Insoluble	0.050 %	Insoluble residue after acid digestion*	NA	
Al	2 ppm	ICP-MS	NA	
Al	0.0002 %	ICP-MS	NA	
As	<1 ppm	ICP-MS	0.6 ppm	
As	<0.0001 %	ICP-MS	0.00006%	
B	76 ppm	ICP-MS	NA	

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<u>Tests</u>		<u>Results/Units</u>	<u>Method</u>	<u>Estimated Results</u>
B		0.0076 %	ICP-MS	NA
Ca		344000 ppm	ICP	NA
Ca		34.40 %	ICP	NA
Cu		<1 ppm	ICP-MS	0.5 ppm
Cu		<0.0001 %	ICP-MS	0.00005%
Fe		1300 ppm	ICP-MS	NA
Fe		0.13 %	ICP-MS	NA

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<u>Tests</u>		<u>Results/Units</u>	<u>Method</u>	<u>Estimated Results</u>
Heavy Metals as Pb		76 ppm	Calculation	NA
Heavy Metals as Pb		0.0076 %	Calculation	NA
Hg		<1 ppm	Cold Vapor AA	0 ppm
Hg		<0.0001 %	Cold Vapor AA	0 %
Li		160 ppm	ICP-MS	NA
Li		0.016 %	ICP-MS	NA
Mg		12300 ppm	ICP	NA

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<u>Tests</u>		<u>Results/Units</u>	<u>Method</u>	<u>Estimated Results</u>
Mg		1.23 %	ICP	NA
P		<10 ppm	ICP-MS	0 ppm
P		<0.001 %	ICP-MS	0%
Pb		<1 ppm	ICP-MS	0.02 ppm
Pb		<0.0001 %	ICP-MS	0.000002%
Si		<10 ppm	ICP-MS	7 ppm
Si		<0.001 %	ICP-MS	0.0007%

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Sn	<1 ppm	ICP-MS	0.2 ppm	
Sn	<0.0001 %	ICP-MS	0.00002%	
Water Insoluble	2000 ppm	Insoluble residue after water digestion*	NA	
Water Insoluble	0.20 %	Insoluble residue after water digestion*	NA	
Zn	<1 ppm	ICP-MS	0.5 ppm	
Zn	<0.0001 %	ICP-MS	0.00005%	

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Acid Insoluble	<100 ppm	Insoluble residue after acid digestion*	0 ppm	
Acid Insoluble	<0.010 %	Insoluble residue after acid digestion*	0%	
Al	<1 ppm	ICP-MS	0.9 ppm	
Al	<0.0001 %	ICP-MS	0.00009%	
As	<1 ppm	ICP-MS	0.4 ppm	
As	<0.0001 %	ICP-MS	0.00004%	
B	<1 ppm	ICP-MS	0.3 ppm	

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Sample No.	S-180524-018	Customer ID:		
<u>Tests</u>		<u>Results/Units</u>	<u>Method</u>	<u>Estimated Results</u>
B		<0.0001 %	ICP-MS	0.00003%
Ca		376000 ppm	ICP	NA
Ca		37.60 %	ICP	NA
Cu		<1 ppm	ICP-MS	0.4 ppm
Cu		<0.0001 %	ICP-MS	0.00004%
Fe		1400 ppm	ICP-MS	NA
Fe		0.14 %	ICP-MS	NA

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TEST REPORT

THE REPORTED TEST RESULTS RELATE ONLY TO THE ITEM(S) TESTED



Bulk Reef Supply
6325 Sandburg Rd Ste 400
Minneapolis, MN 55427-3629

Request ID:
Date:

R-20180524-010
06/07/2018
Credit Card

Revised:

Client Description Estimated Results Reported In Both PPM and Percent and Report Comment Added
Calcium Chloride

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Sample No.	S-180524-018	Customer ID:		
<u>Tests</u>		<u>Results/Units</u>	<u>Method</u>	<u>Estimated Results</u>
Heavy Metals as Pb		17 ppm	Calculation	NA
Heavy Metals as Pb		0.0017 %	Calculation	NA
Hg		<1 ppm	Cold Vapor AA	0 ppm
Hg		<0.0001 %	Cold Vapor AA	0 %
Li		4 ppm	ICP-MS	NA
Li		0.0004 %	ICP-MS	NA
Mg		64 ppm	ICP-MS	NA

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Calcium Chloride

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Sample No.	S-180524-018	Customer ID:		
<u>Tests</u>		<u>Results/Units</u>	<u>Method</u>	<u>Estimated Results</u>
Mg		0.0064 %	ICP-MS	NA
P		<10 ppm	ICP-MS	0 ppm
P		<0.001 %	ICP-MS	0%
Pb		<1 ppm	ICP-MS	0.2 ppm
Pb		<0.0001 %	ICP-MS	0.00002%
Si		<10 ppm	ICP-MS	9 ppm
Si		<0.001 %	ICP-MS	0.0009%

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Sample No.	S-180524-018	Customer ID:		
<u>Tests</u>		<u>Results/Units</u>	<u>Method</u>	<u>Estimated Results</u>
Sn		<1 ppm	ICP-MS	0.07 ppm
Sn		<0.0001 %	ICP-MS	0.000007%
Water Insoluble		800 ppm	Insoluble residue after water digestion*	NA
Water Insoluble		0.080 %	Insoluble residue after water digestion*	NA
Zn		<1 ppm	ICP-MS	0.3 ppm
Zn		<0.0001 %	ICP-MS	0.00003%

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Sample No.	S-180524-019	Customer ID:		
Tests	Results/Units	Method	Estimated Results	
Acid Insoluble	800 ppm	Insoluble residue after acid digestion*	NA	
Acid Insoluble	0.080 %	Insoluble residue after acid digestion*	NA	
Al	<1 ppm	ICP-MS	0.6 ppm	
Al	<0.0001 %	ICP-MS	0.00006%	
As	<1 ppm	ICP-MS	0.5 ppm	
As	<0.0001 %	ICP-MS	0.00005%	
B	70 ppm	ICP-MS	NA	

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Client Description

Estimated Results Reported In Both PPM and Percent and Report Comment Added
Calcium Chloride

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Sample No.	S-180524-019	Customer ID:		
<u>Tests</u>		<u>Results/Units</u>	<u>Method</u>	<u>Estimated Results</u>
B		0.007 %	ICP-MS	NA
Ca		342000 ppm	ICP	NA
Ca		34.20 %	ICP	NA
Cu		<1 ppm	ICP-MS	0.4 ppm
Cu		<0.0001 %	ICP-MS	0.00004%
Fe		1400 ppm	ICP-MS	NA
Fe		0.14 %	ICP-MS	NA

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Sample No.	S-180524-019	Customer ID:		
<u>Tests</u>		<u>Results/Units</u>	<u>Method</u>	<u>Estimated Results</u>
Heavy Metals as Pb		<9 ppm	Calculation	3 ppm
Heavy Metals as Pb		<0.0009 %	Calculation	0.0003%
Hg		<1 ppm	Cold Vapor AA	0 ppm
Hg		<0.0001 %	Cold Vapor AA	0 %
Li		160 ppm	ICP-MS	NA
Li		0.016 %	ICP-MS	NA
Mg		45 ppm	ICP-MS	NA

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Sample No.	S-180524-019	Customer ID:		
<u>Tests</u>		<u>Results/Units</u>	<u>Method</u>	<u>Estimated Results</u>
Mg		0.0045 %	ICP-MS	NA
P		<10 ppm	ICP-MS	0 ppm
P		<0.001 %	ICP-MS	0%
Pb		<1 ppm	ICP-MS	0.09 ppm
Pb		<0.0001 %	ICP-MS	0.000009%
Si		<10 ppm	ICP-MS	0 ppm
Si		<0.001 %	ICP-MS	0%

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Sample No.	S-180524-019	Customer ID:		
<u>Tests</u>		<u>Results/Units</u>	<u>Method</u>	<u>Estimated Results</u>
Sn		<1 ppm	ICP-MS	0 ppm
Sn		<0.0001 %	ICP-MS	0%
Water Insoluble		1500 ppm	Insoluble residue after water digestion*	NA
Water Insoluble		0.15 %	Insoluble residue after water digestion*	NA
Zn		<1 ppm	ICP-MS	0.7 ppm
Zn		<0.0001 %	ICP-MS	0.00007%

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Page 26 of 31

Sample No.	S-180524-020	Customer ID:		
<u>Tests</u>		<u>Results/Units</u>	<u>Method</u>	<u>Estimated Results</u>
Acid Insoluble		800 ppm	Insoluble residue after acid digestion*	NA
Acid Insoluble		0.080 %	Insoluble residue after acid digestion*	NA
Al		1 ppm	ICP-MS	NA
Al		0.0001 %	ICP-MS	NA
As		<1 ppm	ICP-MS	0.4 ppm
As		<0.0001 %	ICP-MS	0.00004%
B		73 ppm	ICP-MS	NA

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Calcium Chloride

Page 27 of 31

Sample No.	S-180524-020	Customer ID:		
<u>Tests</u>		<u>Results/Units</u>	<u>Method</u>	<u>Estimated Results</u>
B		0.0073 %	ICP-MS	NA
Ca		337000 ppm	ICP	NA
Ca		33.70 %	ICP	NA
Cu		<1 ppm	ICP-MS	0.5 ppm
Cu		<0.0001 %	ICP-MS	0.00005%
Fe		1400 ppm	ICP-MS	NA
Fe		0.14 %	ICP-MS	NA

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Page 28 of 31

Sample No.	S-180524-020	Customer ID:		
<u>Tests</u>		<u>Results/Units</u>	<u>Method</u>	<u>Estimated Results</u>
Heavy Metals as Pb		<9 ppm	Calculation	3 ppm
Heavy Metals as Pb		<0.0009 %	Calculation	0.0003%
Hg		<1 ppm	Cold Vapor AA	0 ppm
Hg		<0.0001 %	Cold Vapor AA	0 %
Li		150 ppm	ICP-MS	NA
Li		0.015 %	ICP-MS	NA
Mg		38 ppm	ICP-MS	NA

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Page 29 of 31

Sample No.	S-180524-020	Customer ID:		
<u>Tests</u>		<u>Results/Units</u>	<u>Method</u>	<u>Estimated Results</u>
Mg		0.0038 %	ICP-MS	NA
P		<10 ppm	ICP-MS	0 ppm
P		<0.001 %	ICP-MS	0%
Pb		<1 ppm	ICP-MS	0.04 ppm
Pb		<0.0001 %	ICP-MS	0.000004%
Si		<10 ppm	ICP-MS	0 ppm
Si		<0.001 %	ICP-MS	0%

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Sample No.	S-180524-020	Customer ID:		
<u>Tests</u>		<u>Results/Units</u>	<u>Method</u>	<u>Estimated Results</u>
Sn		<1 ppm	ICP-MS	0.09 ppm
Sn		<0.0001 %	ICP-MS	0.000009%
Water Insoluble		600 ppm	Insoluble residue after water digestion*	NA
Water Insoluble		0.060 %	Insoluble residue after water digestion*	NA
Zn		1 ppm	ICP-MS	NA
Zn		0.0001 %	ICP-MS	NA

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