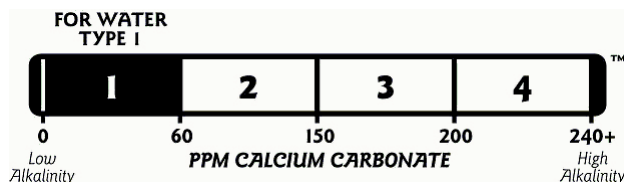




SPECIALIZING IN ANALYSIS OF: SOILLESS MEDIA, TISSUE, WATER, FERTILIZER SOLUTIONS  
 300 Speedway Circle Suite 2, Lincoln, NE 68502 - Phone: 1-877-HORT-LAB (1-877-467-8522) - FAX: 402-476-0302  
[www.everris.us.com](http://www.everris.us.com)

## SOLUTION ANALYSIS



ACCT#	61	DATE RECEIVED	21-Dec-2016
NAME	Custom Hydro	DATE COMPLETE	27-Dec-2016
ADDRESS	customhydronutrients.com customhydronutrients@gmail.com	TURN AROUND	6 Days
CITY/STATE/ZIP		LAB I.D.	
PHONE		SAMPLE I.D.	OSA28
FAX			
E-MAIL			

Date Sampled:	Fertilizer Solution	Fertilizer Solution:
This Sample Is:		Concentration:
Source of Water:		Injector/Ratio:
Water Treated:		
Concerns/Problems:		

TEST			RESULTS			TEST			RESULTS		
Soluble Salts	mmhos/cm		235.90			Copper	Cu	ppm	2.54		
pH			1.0			Zinc	Zn	ppm	1.15		
Alkalinity	ppm		0.20			Molybdenum	Mo	ppm	349.13		
Calcium	Ca	ppm	155.60			Aluminum	Al	ppm	156.91		
Magnesium	Mg	ppm	53.81			Nitrate	NO <sub>3</sub> -N	ppm	0.57		
Sodium	Na	ppm	888.81			Ammonium	NH <sub>4</sub> -N	ppm	138.00		
Chloride	Cl	ppm	32900.00			Total Nitrogen	N	ppm	138.57		
Boron	B	ppm	484.47			Phosphorus	P	ppm	10.50		
Fluoride	F	ppm	0.01			Potassium	K	ppm	6777.67		
Iron	Fe	ppm	14.97								
Manganese	Mn	ppm	0.01								
Sulfur	S	ppm	18.57								

Questions about this report? Call for technical assistance  
 at 1-877-HORT-LAB (1-877-467-8522)

For more information on matching your fertilizer program to your specific water quality, access the  
 Peters® ABC Selection System™ from Everris at <http://everris.us.com/peters-abc-selection-system>

**TABLE 1. ALKALINITY GUIDELINES FOR EVERRIS LAB ANALYSIS. POT DIAMETER/SIZE IMPACTS THE EFFECT OF ALKALINITY.**

INTENDED USE	NORMAL RANGE		LEVEL OF CONCERN U	
	ppm-mg CaCO <sub>3</sub> /L	Milliequivalents CaCO <sub>3</sub> V	ppm=mgCaCO <sub>3</sub> /L	Milliequivalents CaCO <sub>3</sub>
Plugs	60 to 100	1.2 to 2.0	<40. > 120	<0.8. > 2.4
Small pots/shallow flats	80 to 120	1.6 to 2.4	<40. > 140	<0.8. > 2.8
4" to 5" posts/deep flats	100 to 140	2.0 to 2.8	<40. > 160	<0.8. > 3.2
Pots: 6" or more/long term crops	120 to 180	1.6 to 3.6	<60. > 200	<1.2. > 4.0

U Highest level a grower can manage depends on plant type grown, media type, potential acidity of feed program and watering practices. Levels listed in this table are guidelines only!

V Milliequivalents = ppm total alkalinity expressed as milligrams Calcium Carbonate per liter divided by 50.

**LOW ALKALINITY:** Use a low acidifying or basifying feed program, provide for adequate calcium and magnesium and assure that growing medium lime rate is adequate. **Call 1-877-HORT-LAB (1-877-467-8522) for further advice.**

**HIGH ALKALINITY:** Use an acidifying feed program and/or add mineral acids to irrigation water such as phosphoric, sulfuric acids. Exercise appropriate precautions when handling concentrated acids and use acid-safe injectors.

**Call 1-877-HORT-LAB (1-877-467-8522) for further advice.**

**TABLE 2. GENERAL WATER QUALITY GUIDELINES FOR GROWING IN SOILLESS GROWING MEDIA.**

PARAMETER	NORMAL RANGE (Parts per million except where noted)	LOW	HIGH
Soluble Salts (mmhos/cm)	0.3 to 1.0	< 0.2	> 1.3
<b>MAJOR NUTRIENTS w</b>			
Nitrate Nitrogen (NO <sub>3</sub> -N)	-----	-----	> 10
Ammonium Nitrogen (NH <sub>4</sub> -N)	-----	-----	> 10
Phosphorus (P)	-----	-----	> 10
Potassium (K)	-----	-----	> 10
Calcium (Ca)	40 to 75	< 25	> 100
Magnesium (Mg)	30 to 50	< 15	> 50
Sulfur (S)	10 to 80	< 10	> 80
<b>TRACE NUTRIENTS y</b>			
Manganese (Mn)	-----	-----	> 1.50
Iron (Fe)	-----	-----	> 2.00
Copper (Cu)	-----	-----	> 0.20
Boron (B)	-----	-----	> 0.50 z
Zinc (Zn)	-----	-----	> 0.40
Molybdenum (Mo)	-----	-----	> 0.20
<b>OTHER ELEMENTS</b>			
Sodium (Na)	-----	-----	> 50
Chlorides (Cl)	-----	-----	> 70
Fluorides (F)	-----	-----	> 1.0
Aluminum (Al)	-----	-----	> 1.0

w N, P and K levels usually low. Levels greater than 10 to 20 ppm may indicate nutrient runoff into water source.

x Sulfur reported as elemental Sulfur. To calculate sulfur as the sulfate ion, the form in which most sulfur is likely to be present, multiply by 3. Small amounts of sulfur can be added through the addition of epsom salts, magnesium sulfate, to non-calcium fertilizer formulations. One ounce per 100 gallons of water will deliver 7.5 ppm Mg and 30 ppm SO<sub>4</sub>.

y Concern with trace nutrient levels that are two times the level found in a PETERS PEAT-LITE fertilizer solution of 200 ppm N.

z With Boron-sensitive crops (like poinsettia), 0.25 ppm may be considered high.

We hope this information will be helpful. It is based on data and knowledge considered to be accurate and is offered for the user's consideration and verification but we do not warrant the results to be obtained. Please read all recommendations or suggestions which apply to data provided. No recommendation or suggestion is intended for any use which would infringe any patent or copyright.

Submitted By:	<b>6570761</b>
<b>Custom Hydro</b>	

Submitted For:	
<b>CUSTOM HYDRO</b>	

Date Received	Date Reported		Laboratory Sample #'
21-Dec-2016	27-Dec-2016		

## REPORT OF ANALYTICAL RESULTS

### Client Sample Identification

OSA28

### Analysis

Water Silicon

### Result

3,591.68 ppm



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