



BIOLOGICAL CONSULTING SERVICES
OF NORTH FLORIDA, INC.

May 19, 2016

Michael M. Barlow
Water One of Southwest Florida, Inc.
4840 Laredo Avenue
Fort Myers, FL 33905
239-425-6100
info@wateroneinc.com
Client ID: Pure2Go Purifier 1, Pure2Go Purifier 2, Pure2Go Purifier 3

BCS ID: 1605099, 1605100, 1605101

Project Name: PURE2GO (Quote #2016411) Filter efficacy testing

Dear Michael M. Barlow,

We have completed the filtration efficacy study on the submitted units as outlined below. The contaminant species, study conditions, and water parameters utilized were based on client's request and adaptation of the guidance documents and protocols listed below:

Validation of Water Purifier Efficacy (Biological): ANSI/NSF protocol 53 and P231 (ISO17025 only accredited)

Following, you will find our report on the results of the study conducted on the referenced samples. Should you have any questions, please do not hesitate to contact me.

Sincerely,

George Lukasik, Ph.D.
Laboratory Director

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Final Report BCS ID 1605099, 1605100, 1605101

Water One of Southwest Florida, Inc.

PURE2GO (Quote #2016411) Filter efficacy testing

BCS LABORATORIES, INC. — GAINESVILLE

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FL DOH #E82924, ISO/IEC 17025:2005 L2422 (L-A-B), PA DEP# 68-03950, EPA# FLO1147
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LABORATORY
ACCREDITATION
BUREAU
a division of A-S-B
ACCREDITED ISO/IEC 17025



Client ID: Pure2Go Purifier 1 Test Water: General Test Water I
 Analysis: 3.0 Microspheres Filtration Efficacy (parasite) BCS Sample ID 1605099
 Test Point: Purifier Initial Test
 Flow rate: 480 mL/min pH: 7.46 NTU: 0.83 TDS: 209 Hardness: 140
 Influent Conc: 5.10E+04 microspheres/mL Effluent Conc: <1.00E+00 microspheres/mL
 Percent Reduction: >99.998 Log10 Reduction: >4.7
 Test Notes: Unit's performance meets and/or exceeds the NSF/ANSI water purifier standards for microbial removal; 6 Log10 or greater (>99.9999%) for bacteria and 4 Log10 or greater (>99.99%) for virus. Analyte was not detected in unit's effluent. (Qualifier:U)

Client ID: Pure2Go Purifier 1 Test Water: General Test Water I
 Analysis: MS-2 Virus Filtration Efficacy BCS Sample ID 1605099
 Test Point: Purifier Initial Test
 Flow rate: 480 mL/min pH: 7.46 NTU: 0.83 TDS: 209 Hardness: 140
 Influent Conc: 3.30E+05 pfu/mL Effluent Conc: 3.90E+00 pfu/mL
 Percent Reduction: 99.999 Log10 Reduction: 4.9
 Test Notes: Unit's performance meets and/or exceeds the NSF/ANSI water purifier standards for microbial removal; 6 Log10 or greater (>99.9999%) for bacteria and 4 Log10 or greater (>99.99%) for virus.

Client ID: Pure2Go Purifier 1 Test Water: General Test Water I
 Analysis: R. terrigena Bacteria Filtration Efficacy BCS Sample ID 1605099
 Test Point: Purifier Initial Test
 Flow rate: 480 mL/min pH: 7.46 NTU: 0.83 TDS: 209 Hardness: 140
 Influent Conc: 5.10E+05 cfu/mL Effluent Conc: <4.50E-01 cfu/mL
 Percent Reduction: >99.99991 Log10 Reduction: >6.1
 Test Notes: Unit's performance meets and/or exceeds the NSF/ANSI water purifier standards for microbial removal; 6 Log10 or greater (>99.9999%) for bacteria and 4 Log10 or greater (>99.99%) for virus. Analyte was not detected in unit's effluent. (Qualifier:U)



Client ID: Pure2Go Purifier 2 Test Water: General Test Water I
Analysis: 3.0 Microspheres Filtration Efficacy (parasite) BCS Sample ID 1605100
Test Point: Purifier Initial Test
Flow rate: 454 mL/min pH: 7.46 NTU: 0.83 TDS: 209 Hardness: 140
Influent Conc: 5.10E+04 microspheres/mL Effluent Conc: <1.00E+00 microspheres/mL
Percent Reduction: >99.998 Log10 Reduction: >4.7
Test Notes: Unit's performance meets and/or exceeds the NSF/ANSI water purifier standards for microbial removal; 6 Log10 or greater (>99.9999%) for bacteria and 4 Log10 or greater (>99.99%) for virus. Analyte was not detected in unit's effluent. (Qualifier:U)

Client ID: Pure2Go Purifier 2 Test Water: General Test Water I
Analysis: MS-2 Virus Filtration Efficacy BCS Sample ID 1605100
Test Point: Purifier Initial Test
Flow rate: 454 mL/min pH: 7.46 NTU: 0.83 TDS: 209 Hardness: 140
Influent Conc: 3.30E+05 pfu/mL Effluent Conc: 1.07E+01 pfu/mL
Percent Reduction: 99.997 Log10 Reduction: 4.5
Test Notes: Unit's performance meets and/or exceeds the NSF/ANSI water purifier standards for microbial removal; 6 Log10 or greater (>99.9999%) for bacteria and 4 Log10 or greater (>99.99%) for virus.

Client ID: Pure2Go Purifier 2 Test Water: General Test Water I
Analysis: R. terrigena Bacteria Filtration Efficacy BCS Sample ID 1605100
Test Point: Purifier Initial Test
Flow rate: 454 mL/min pH: 7.46 NTU: 0.83 TDS: 209 Hardness: 140
Influent Conc: 5.10E+05 cfu/mL Effluent Conc: <4.50E-01 cfu/mL
Percent Reduction: >99.99991 Log10 Reduction: >6.1
Test Notes: Unit's performance meets and/or exceeds the NSF/ANSI water purifier standards for microbial removal; 6 Log10 or greater (>99.9999%) for bacteria and 4 Log10 or greater (>99.99%) for virus. Analyte was not detected in unit's effluent. (Qualifier:U)



Client ID: Pure2Go Purifier 3 Test Water: General Test Water I
Analysis: 3.0 Microspheres Filtration Efficacy (parasite) BCS Sample ID 1605101
Test Point: Purifier Initial Test
Flow rate: 472 mL/min pH: 7.46 NTU: 0.83 TDS: 209 Hardness: 140
Influent Conc: 5.10E+04 microspheres/mL Effluent Conc: <1.00E+00 microspheres/mL
Percent Reduction: >99.998 Log10 Reduction: >4.7
Test Notes: Unit's performance meets and/or exceeds the NSF/ANSI water purifier standards for microbial removal; 6 Log10 or greater (>99.9999%) for bacteria and 4 Log10 or greater (>99.99%) for virus. Analyte was not detected in unit's effluent. (Qualifier:U)

Client ID: Pure2Go Purifier 3 Test Water: General Test Water I
Analysis: MS-2 Virus Filtration Efficacy BCS Sample ID 1605101
Test Point: Purifier Initial Test
Flow rate: 472 mL/min pH: 7.46 NTU: 0.83 TDS: 209 Hardness: 140
Influent Conc: 3.30E+05 pfu/mL Effluent Conc: 5.68E+00 pfu/mL
Percent Reduction: 99.998 Log10 Reduction: 4.8
Test Notes: Unit's performance meets and/or exceeds the NSF/ANSI water purifier standards for microbial removal; 6 Log10 or greater (>99.9999%) for bacteria and 4 Log10 or greater (>99.99%) for virus.

Client ID: Pure2Go Purifier 3 Test Water: General Test Water I
Analysis: R. terrigena Bacteria Filtration Efficacy BCS Sample ID 1605101
Test Point: Purifier Initial Test
Flow rate: 472 mL/min pH: 7.46 NTU: 0.83 TDS: 209 Hardness: 140
Influent Conc: 5.10E+05 cfu/mL Effluent Conc: <4.50E-01 cfu/mL
Percent Reduction: >99.99991 Log10 Reduction: >6.1
Test Notes: Unit's performance meets and/or exceeds the NSF/ANSI water purifier standards for microbial removal; 6 Log10 or greater (>99.9999%) for bacteria and 4 Log10 or greater (>99.99%) for virus. Analyte was not detected in unit's effluent. (Qualifier:U)



Project: PURE2GO (Quote #2016411) Filter efficacy testing
Date Received: May 16, 2016 12:09 Analyst: David Sekora, M.S.
Test Start Date: May 16, 2016 Test End Date: May 17, 2016 Qualifier: U

Report Notes:

Each Filter was conditioned by passing 2.0L of laboratory grade reagent water using 3.2 in Hg vacuum resulting in an average flow rate of 480mL/min. For the Challenge, the indicated contaminant species were added to General Test Water Type 1 (GTW I) as per NSF Protocol 231 guidance. An influent sample was removed at the beginning and end of study. One liter of challenge water was passed through each filter using 3.2 in Hg vacuum. The entire effluent from each of the filter units was collected for analysis. Each filter's Influent (beginning and end) and effluent samples were analyzed as per laboratory accredited methodology: Bacteria was analyzed as per SM 9215C (APHA 2012), MS-2 virus as per EPA 1602 (Lab SOP V-10), and fluorescent microspheres as per EPA 1623.1. Each sample was analyzed in duplicates at the minimum.



*I certify that I have examined I am familiar with the information submitted herein. The results pertain only to the sample(s) analyzed associated identifier #(s). Based on my inquiry of the individuals responsible for the analysis, I believe the data to be true, accurate, and complete. Unit descriptions and names were obtained from the submitted documents. The analysis was authorized and commissioned by the client or client's representative. The resulting data are representative of the analysis conducted on the collected samples and it's/their condition at the time of analysis. The data provided is strictly representative of the study conducted under laboratory conditions using the material/samples/articles provided by the client (or client's representative) and it's (their) condition at the time of test. The data obtained may not be representative or indicative of a real-life process and/or application. The sample(s) were analyzed in accordance with the appropriate method, however due to the inherent limitations of methods, microorganisms may avoid detection. BCS Laboratories offers no express or implied warranties concerning the quality, safety, and/or purity of any sample, batch, source, or the process they are derived from. Quality assurance controls were performed as outlined in the method and as per Good Laboratory Practices. Analyses were performed in accordance with laboratory practices and procedures set-forth by ISO 17025-2005 and NELAP/TNI accreditation standards unless otherwise noted. BCS makes no express or implied warranty regarding the ownership, merchantability, safety or fitness for a particular purpose of any such property or product.

Signature of Laboratory Director/Authorized Rep.  Date: May 19, 2016



DATA QUALIFIER CODES	
SYMBOL	MEANING
D	Measurement was made in the field.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
J1	The sample matrix interfered with the ability to make any accurate determination.
J2	No Quality Control criteria exist for the component.
^	analysis conducted outside the Laboratory's scope of accreditation
L	Off scale high. Actual value is known to be greater than value given.
O	Sampled, but analysis not performed.
Q	Sample held beyond the accepted holding time.
U	Indicates that the compound was analyzed for but not detected. The reported value is the method detection limit.
V	Analyte was detected in both sample and associated method blank. Data may not be accurate.
Y	The laboratory analysis was from an improperly preserved sample. The data may not be accurate.
Z	Too many colonies present (TNTC); the numeric value given represents the upper end of the value that can be determined based on the volume.
?	Data are rejected and should not be used. QC data did not meet acceptance criteria.
**	Analysis of analyte submitted to an accredited sub-contract laboratory.
!	Data deviate from historically established concentration range.
#	BCS Lab specific qualifier. See laboratory analysis notes.

