



Biological Consulting Services

Of North Florida, Inc.

2026-05-27

Paul Bailey
Pure Way Filtration
61 Schinger Ave Unit 104
Ridgeland SC 29936
404-276-9311

Client ID: System #3, System #4
RE: 3-Stage 4.5" x 20" Point of Entry Water Filtration System
BCS ID: 2603151, 2603152

Report Revision#1: Report conclusion was updated to clarify intent of study

Project Name: Pure Way 03172026 Microbial and Microplastics Reduction Efficacy Testing

Dear Paul Bailey,

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:

Water Filtration Efficacy Testing: Microbiological Water Purifier Testing Procedure and Microplastics as Class I Particulate Filtration Efficacy; plumbed in systems and faucet mounted systems (BCS SOP F-1; ISO17025:2017 Accredited).

Report Conclusion: Testing was conducted using ISO17025 accredited laboratory methodologies under conditions requested by the client. Results are intended to demonstrate initial filtration efficacy performance.

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 2603151, 2603152 Revision #1:GL 05/27/2026

Client: Pure Way Filtration

Project: Pure Way 03172026 Microbial and Particulate Reduction Efficacy Testing

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Analysis: MS-2 ATCC 15597-B1 Virus Filtration Efficacy

Test Water: General Test Water

Analysis Method: Plaque Assay (BCS SOP V-10)

Test Point: Filtration Efficacy @ Start-up

Challenge Date: 2026-03-31 Challenge Analysts: Jonathon Nunes

Initial Pres. (PSI): 62.2 Temp(C): 21.5

pH: 7.69 Turbidity (NTU): 0.24 TOC (ppm): 0.45 TDS(ppm): 189.9 Hardness(ppm): N/A

Alkalinity(ppm): N/A Total Chlorine(ppm): <0.01 Polyphosphate (as ppm phosphorus): N/A

Influent Conc: 1.7E+05 pfu/mL Ambient Temp(C): 21.9

Analysis Date: 2026-03-31 Analysts: Jonathon Nunes

Test Notes: Pure Way 3-Stage units' performance achieved >99.9998% reduction of MS-2 virus at the above test point.

BCS Sample ID 1: 2603151	Client ID 1: System #3	Flow Rate: 4.0 gpm
Eff Conc 1: <3.0E-01 pfu/mL	% Reduct 1: >99.9998	Log10 Reduct 1: >5.7
BCS Sample ID 2: 2603152	Client ID 2: System #4	Flow Rate: 4.0 gpm
Eff Conc 2: <3.0E-01 pfu/mL	% Reduct 2: >99.9998	Log10 Reduct 2: >5.7

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Analysis: *R. terrigena* Bacteria Filtration Efficacy

Test Water: General Test Water

Analysis Method: Membrane Filtration (Standard Method 9215D)

Test Point: Filtration Efficacy @ Start-up

Challenge Date: 2026-03-31 Challenge Analysts: Jonathon Nunes

Initial Pres. (PSI): 62.2 Temp(C): 21.5

pH: 7.69 Turbidity (NTU): 0.24 TOC (ppm): 0.45 TDS(ppm): 189.9 Hardness(ppm): N/A

Alkalinity(ppm): N/A Total Chlorine(ppm): <0.01 Polyphosphate (as ppm phosphorus): N/A

Influent Conc: 2.7E+05 cfu/mL Ambient Temp(C): 21.9

Analysis Date: 2026-03-31 Analysts: Jonathon Nunes

Test Notes: Pure Way 3-Stage units' performance achieved >99.9999% reduction of *R. terrigena* bacteria at the above test point.

BCS Sample ID 1: 2603151	Client ID 1: System #3	Flow Rate: 4.0 gpm
Eff Conc 1: <3.3E-01 cfu/mL	% Reduct 1: >99.9999	Log10 Reduct 1: >5.9
BCS Sample ID 2: 2603152	Client ID 2: System #4	Flow Rate: 4.0 gpm
Eff Conc 2: <3.3E-01 cfu/mL	% Reduct 2: >99.9999	Log10 Reduct 2: >5.9

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Analysis: 3.0um Microspheres Filtration Efficacy (Cyst/Cryptosporidium) Test Water: General Test Water

Analysis Method: Fluorescent Microscopic Enumeration (EPA 1623.1)

Test Point: Filtration Efficacy @ Start-up

Challenge Date: 2026-03-31 Challenge Analysts: Jonathon Nunes

Initial Pres. (PSI): 62.2 Temp(C): 21.5

pH: 7.69 Turbidity (NTU): 0.24 TOC (ppm): 0.45 TDS(ppm): 189.9 Hardness(ppm): N/A

Alkalinity(ppm): N/A Total Chlorine(ppm): <0.01 Polyphosphate (as ppm phosphorus): N/A

Influent Conc: 2.4E+04 microspheres/mL Ambient Temp(C): 21.9

Analysis Date: 2026-03-31 Analysts: Jonathon Nunes

Test Notes: Pure Way 3-Stage units' performance achieved >99.997% reduction of Cysts/Cryptosporidium (as 3.0 um Microspheres) at the above test point.

BCS Sample ID 1: 2603151	Client ID 1: System #3	Flow Rate: 4.0 gpm
Eff Conc 1: <6.6E-01 microspheres/mL	% Reduct 1: >99.997	Log10 Reduct 1: >4.6
BCS Sample ID 2: 2603152	Client ID 2: System #4	Flow Rate: 4.0 gpm
Eff Conc 2: <6.6E-01 microspheres/mL	% Reduct 2: >99.997	Log10 Reduct 2: >4.6

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Analysis: *Class I Particulate (Microplastics) Filtration Efficacy*

Test Water: General Test Water

Analysis Method: Coulter MS-4 Particle Counter

Test Point: Filtration Efficacy @ Start-up

Challenge Date: 2026-04-01 Challenge Analysts: Nathaniel Vogler, B.S.

Initial Pres. (PSI): 60.8 Temp(C): 21.0

pH: 7.56 Turbidity (NTU): 0.24 TOC (ppm): N/A TDS(ppm): 215.1 Hardness(ppm): N/A

Alkalinity(ppm): N/A Total Chlorine(ppm): <0.01 Polyphosphate (as ppm phosphorus): N/A

Influent Conc: 3.5E+06 Particles/mL Ambient Temp(C): 21.3

Analysis Date: 2026-04-07 Analysts: Colton Hunt, B.S.

Test Notes: Pure Way 3-Stage units' performance achieved 99.9% reduction of microplastics (as 0.5-1.0 micron particulates) at the above test point.

*Turbidity following test dust addition: 36.8 NTU.

Total particle count from 0-80 um is 6.84E+06 particles/mL.

BCS Sample ID 1: 2603151	Client ID 1: System #3	Flow Rate: 4.0 gpm		
Eff Conc 1: 3.7E+03 Particles/mL	% Reduct 1:	99.9	Log10 Reduct 1:	3.0
BCS Sample ID 2: 2603152	Client ID 2: System #4	Flow Rate: 4.0 gpm		
Eff Conc 2: 4.5E+03 Particles/mL	% Reduct 2:	99.9	Log10 Reduct 2:	2.9

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Project: Pure Way 03172026 Microbial and Particulate Reduction Efficacy Testing

Date Received: 2026-03-17 16:17

Test Start Date: 2026-03-31

Test End Date: 2026-04-07

System Type: Point of Entry 3- Stage System

Est. Capacity: N/A

Performance Indicating Device: N/A

Batch Volume: N/A

Batch, number per day: N/A

Test Cycle (min): N/A

Cycle On/Off (%): N/A

Restricted Flow Rate: Yes

Test Duration (hr/day): N/A

Test Conditioning: Filters flushed with 40 gal. of clean municipal water.

Report Notes:

The referenced units were received from study sponsor, and each assigned the indicated BCS ID number. The units were subjected to single challenge testing based on conditions requested by sponsor. Units were connected to a supply of General Test Water (GTW; carbon block dechlorinated and filtered municipal water) and conditioned as requested. Following, the units were subjected to the microbial challenge as follows: units were connected to a reservoir containing the microbial challenge species in GTW. The challenge water was introduced into the units at the indicated flowrate prior to sample collection. Duplicate samples of each units' effluent were collected following passage of 80 gallons. On Day 2, The units were tested for microplastics reduction using Class I (≥ 0.5 micron to 1 micron) Nominal Particulates. Challenge Test Water was prepared using ISO 12103-1, A2 Fine Test Dust and passed through the units at the indicated flowrate. Study & analysis was conducted as per laboratory's accredited ISO17025:2017 methodology: Bacteria was analyzed as per SM 9215C (APHA 2012) (LOD: 1 cfu/unit volume analyzed), virus as per BCS SOP V-10 (EPA1602) (LOD: 1 pfu/unit volume analyzed), microspheres as per EPA 1623.1 (LOD: 1 microsphere/unit volume analyzed), particles were enumerated using Beckman Coulter MS-4 particle counter (LOD: 1 particle/ unit volume analyzed) turbidity was determined as per SM2130B (LOD: 0.1 NTU), pH as per SM4500HB (LOD: 0.01), TDS as per SM2540 (LOD: 0.1 ppm), chlorine as per SM4500-Cl G (LOD: 0.01 ppm), Total Organic Carbon (TOC) as per SM5310C (LOD: 0.1 ppm). All analysis was conducted using calibrated and/or validated Instruments to traceable standards (NIST). All method QC was within method acceptance limit. No general environmental conditions are specified in the standard or have been identified that could affect the test results or measurements. END OF REPORT NOTES.

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*I certify that I have examined and I am familiar with the information submitted herein. The results pertain only to the sample(s) tested, associated identifier #(s), and condition at receipt. 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 following receipt. 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 17025-2017 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: 2026-04-08

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Pictures:



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*Balance ID: BL-10	Description: Sartorius Practum Precision Balance
Range of Function: 0-3100 g	Instrument Reporting Limit: 0.01g
Last Service Date: 2025-08-08	Service Due Date: 2026-08-08
Service Type: Manufacturer Cal	NIST Validation Instrument: Reference Std/Instrument
*pH Meter ID: PH-09	Description: Orion Versa Star Pro Meter w/pH and Conductivity Modules
Range of Function: 0.001-12.000	Instrument Reporting Limit: 0.001
Last Service Date: 2026-03-31	Service Due Date: 2026-04-07
Service Type: Validation to NIST	NIST Validation Instrument: NIST Standard Solutions
*Conductivity Meter ID: CM-08	Description: Orion Versa Star Pro Meter w/pH and Conductivity Modules
Range of Function: 0.01-2400 ppm	Instrument Reporting Limit: 0.01ppm
Last Service Date: 2026-03-31	Service Due Date: 2026-04-07
Service Type: Validation to NIST	NIST Validation Instrument: NIST Standard Solutions
*Alkalinity Meter ID: N/A	Description:
Range of Function:	Instrument Reporting Limit:
Last Service Date:	Service Due Date:
Service Type:	NIST Validation Instrument:
*Hardness Meter ID: N/A	Description:
Range of Function:	Instrument Reporting Limit:
Last Service Date:	Service Due Date:
Service Type:	NIST Validation Instrument:
*Turbidity Meter ID: TM-06	Description: Hach Turbidimeter
Range of Function: 0 to 4000 NTU	Instrument Reporting Limit: 0.01NTU
Last Service Date: 2026-01-16	Service Due Date: 2027-01-16
Service Type: Yearly Service	NIST Validation Instrument: NIST Standard Solutions
*Spectrophotometer ID: SPEC-02	Description: Hach DR 3900 Spectrophotometer Colorimeter
Range of Function: 320-1000nm	Instrument Reporting Limit: 0.01nm
Last Service Date: 2025-03-17	Service Due Date: 2026-03-31
Service Type: Manufacturer service	NIST Validation Instrument: NIST Standard Solutions
Incubator ID: I-20	Description: Thermo Fisher Forma 29 cu. ft. Reach-In Incubator
Range of Function: 10-65 C	Instrument Reporting Limit: 0.1C
Last Service Date: 2025-09-19	Service Due Date: 2026-09-30
Service Type: Annual Validation	NIST Validation Instrument: TP-30



**Flow Meter ID 1: FM-78		Description: King Instrument 1-10 GPM
Range of Function:	1-10 GPM	Instrument Reporting Limit: 1 gpm
Last Service Date:	2026-03-31	Service Due Date: 2026-04-07
Service Type:	Validation to NIST	NIST Validation Instrument: GC-4L-B
**Flow Meter ID 2: N/A		Description:
Range of Function:		Instrument Reporting Limit:
Last Service Date:		Service Due Date:
Service Type:		NIST Validation Instrument:
**Flow Meter ID 3: N/A		Description:
Range of Function:		Instrument Reporting Limit:
Last Service Date:		Service Due Date:
Service Type:		NIST Validation Instrument:
Microscope ID: MIC-03		Description: Olympus BH-2 Microscope
Range of Function:	40X-400X Magnification	Instrument Reporting Limit: 0.5 micron
Last Service Date:	2024-09-18	Service Due Date: 2025-09-18
Service Type:	Annual Service	NIST Validation Instrument: External Provided
Refrigerator ID: FR-12		Description: Sanyo LabCool Refrigerator
Range of Function:	2-23 degrees C	Instrument Reporting Limit: N/A
Last Service Date:	2025-09-19	Service Due Date: 2026-09-30
Service Type:	Annual Validation	NIST Validation Instrument: TP-30
Centrifuge ID: C-12		Description: Eppendorf centrifuge w/ cell culture package
Range of Function:	0-4400 RPM	Instrument Reporting Limit: 1 RPM
Last Service Date:	2025-09-19	Service Due Date: 2026-09-30
Service Type:	Annual Validation	NIST Validation Instrument: TA-01
Pressure Source Pump ID: Pump-68		Description: Davey Pump HM90-13T/P
Range of Function:	N/A	Instrument Reporting Limit: N/A
Last Service Date:	N/A	Service Due Date: N/A
Service Type:	N/A	NIST Validation Instrument: N/A
Pressure Meter ID: PM-61		Description: Sper Scientific
Range of Function:	0-72.5 PSI	Instrument Reporting Limit: 0.1 PSI
Last Service Date:	2026-01-21	Service Due Date: 2027-01-21
Service Type:	Validation to NIST	NIST Validation Instrument: PM-63 NIST

Client: Pure Way Filtration

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Cert. Pressure Meter ID: PM-63 NIS Description: Sper Scientific Pressure Transducer 145 PSI
Range of Function: 2-10 Bar Instrument Reporting Limit: 0.01 PSI
Last Service Date: 2025-05-12 Service Due Date: 2026-05-12
Service Type: Manufacturer Cal. NIST Validation Instrument: Reference Std./Instrument

TOC Analyzer ID: TOC-01 Description: GE M5310C Lab TOC Analyzer
Range of Function: 40ppb-50ppm Instrument Reporting Limit: 0.01ppb
Last Service Date: 2025-04-28 Service Due Date: 2026-04-28
Service Type: Annual PM NIST Validation Instrument: NIST Standard Solutions

Spectrograph ID: N/A Description:
Range of Function: Instrument Reporting Limit:
Last Service Date: Service Due Date:
Service Type: NIST Validation Instrument:

Thermometer ID: IR-14 NIST Description: VWR Traceable Infrared Thermometer
Range of Function: -60-500C Instrument Reporting Limit: 0.01C
Last Service Date: 2025-11-19 Service Due Date: 2026-11-19
Service Type: Annual Calibration NIST Validation Instrument: Manufactuer calibration

Particle Counter ID: MS-01 Description: Beckman Coulter Multisizer 4
Range of Function: 0.4-500um Instrument Reporting Limit: 0.4
Last Service Date: 2025-12-03 Service Due Date: 2026-12-03
Service Type: Validation to NIST NIST Validation Instrument: NIST Standard Solutions

Timer ID: T-58 NIST Description: VWR NIST Traceable Timer
NIST Expiration Date: 2026-12-19

*Validated at each day of use using NIST traceable standards. Other major equipment validated quarterly.

**Validated at each use using traceable volume and time measurements.

**All above equipment with completed fields were used from Test Start Date to Test End Date unless otherwise noted.
Service Date indicates PM or calibration by accredited service provider. Service Dates reported for latest period. If
Last Service Date occurs during study duration, please contact us for the previous period's validation information.**

END OF REPORT

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