



FDEP Final Test Report

Eco Spring Lake WWTP Pilot

ECO Doc#: Y1-25-005A

Prepared by:	Date:
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Eco World Water Corp Proprietary Information

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Revision History

Rev	Description		Date	Approval
A	Initial Release	SC	January 23, 2026	SS

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1 Summary

Eco World Water (Eco) completed an eight-week performance demonstration of its advanced wastewater treatment system at the Spring Lake Improvement District Wastewater Treatment Plant (Spring Lake WWTP). The evaluation included a structured testing program comprising of four (4) weeks of internal testing followed by four (4) weeks of certified official testing. During the certified testing period, the system was operated under representative conditions, and composite effluent samples were collected three (3) times per week at multiple stages of Eco's treatment process.

The primary objective of the evaluation was to assess the performance of the base Eco World Water treatment system configuration for irrigation-grade reuse and Advanced Wastewater Treatment (AWT) applications. The base system configuration evaluated under this program includes separation, media filtration, ultrafiltration (UF), ultraviolet (UV) disinfection, and reverse osmosis (RO).

Results from the certified testing period demonstrate that the base Eco System achieved effluent quality consistent with applicable regulatory requirements for irrigation-grade reclaimed water and AWT reuse applications. The system demonstrated treatment performance exceeding applicable EPA primary and secondary drinking water standards and achieved non-detect levels for PFAS compounds.

Performance results confirmed consistent achievement of required treatment thresholds for key parameters, including Total Suspended Solids (TSS), Total Dissolved Solids (TDS), Total Nitrogen (TN), Total Phosphorus (TP), Carbonaceous Biochemical Oxygen Demand (CBOD), Total Kjeldahl Nitrogen (TKN), Nitrates as N, Nitrites as N, pH, and Fecal Coliform (*F. coli*), supporting the suitability of the base Eco System for high-grade reuse and AWT certification.

Total Nitrogen (TN) criteria for surface water discharge in Florida vary by receiving water body and designated use, with applicable limits generally ranging from approximately 0.5 mg/L to 3.0 mg/L. While the primary test protocol focused on certification of the base Eco System configuration for irrigation and AWT reuse, supplemental testing was conducted to evaluate enhanced nutrient reduction capability for applications requiring more stringent TN limits.

Supplemental testing demonstrated that, when configured with an optional post-RO polishing media filter designed to target ammonia and residual nitrogen species, the Eco System is capable of reducing the TN concentration to non-detect levels, achieving TN concentrations below the most stringent applicable criteria. This optional post-RO polishing configuration is not part of the base system certification scope but is available to support site-specific requirements for select surface water discharge and other nutrient-sensitive applications.

Overall, the results of this evaluation demonstrate that the base Eco System configuration is suitable for irrigation-grade reuse and AWT applications, and that the Eco System platform may be configured with optional post-RO polishing to provide enhanced nutrient reduction capability for applications requiring more stringent TN performance. This report requests evaluations for the following applications:

1. Deep well injection or absorption fields such as drain fields or spray fields.
2. Irrigation grade re-use.
3. Advanced Wastewater Treatment (AWT).

2 Introduction

2.1 Eco System

The base Eco System consists of multiple stages, each stage designed to target specific classes of contaminants. The first stage is Eco's patented Separation Module which efficiently and reliably reduces the Total Suspended Solids, TSS, below 20 mg/L. Additionally, by reducing the TSS, the Separation Module also reduces more than 70% of the Carbonaceous Biochemical Oxygen Demand, CBOD, more than 95% of the Fecal Coliform, and a significant reduction in Total Phosphorus, TP. It is this reduction in TSS and CBOD/Fecal Coliform that makes it possible to use the following stages of filtration systems without clogging or fouling, achieving the quality of product water that only the Eco System can achieve in a sustainable process without intensive maintenance and high operating expenses. The Separation Module also utilizes a sand/grit remover that greatly reduces the abrasive settleable solids that may damage filtration systems.

The product water from the Separation Module is then processed by a Media Filtration System which further reduces the TSS, TP, and Fecal Coliform, providing a layer of protection and serving as a pre-filter for the following filtration systems. The product water from the Media Filtration System is then processed by an Ultrafiltration (UF) Module which further decreases the TSS from approximately 10 mg/L to non-detect levels. It is this combination of Separation Module, Media Filtration System, and UF Module that produces water with UV Transmittance (UVT) above 99% and makes it possible to obtain full UV light penetration, effectively killing all pathogens and obtaining 4-log removal of pathogens by the Ultraviolet Light (UV) Reactor that follows the UF Module without the need of residual chlorination, which may have a harmful effect on the environment upon irrigation onto land or in reuse applications.

The disinfected water from the UV system is then sent to and processed by a Reverse Osmosis (RO) Module which greatly reduces the Total Dissolved Solids (TDS) and all of the other contaminants regulated under the EPA Primary and Secondary Drinking Water standards to below their Maximum Contaminant Levels (MCLs). The RO membranes also provide an additional redundant barrier achieving another 4-log pathogen removal while significantly reducing nutrients, PFAS compounds, and other trace chemicals, exceeding the quality in the drinking water standards to near distilled water quality.

During portions of the pilot, the RO feed water pH was deliberately adjusted using acid dosing to optimize nitrogen removal performance. Following RO treatment, the product water pH was subsequently readjusted to reflect finished water conditions. This pH control and stabilization strategy was implemented to demonstrate optimized nitrogen removal capability and reflects optional operational configurations of the Eco platform.

Optional post-RO polishing and finished water conditioning processes may be added where more stringent nutrient or constituent limits are required.

2.2 Final Eco System Integration into Spring Lake WWTP (As Tested)

The Eco System pumped raw wastewater from the Spring Lake WWTP Surge Basin (SB), processed the wastewater and discharged the RO product water into the Spring Lake WWTP final settling tank, zone 3, and discharged the sludge into the Aerobic Digester (SD) per Figure 2.

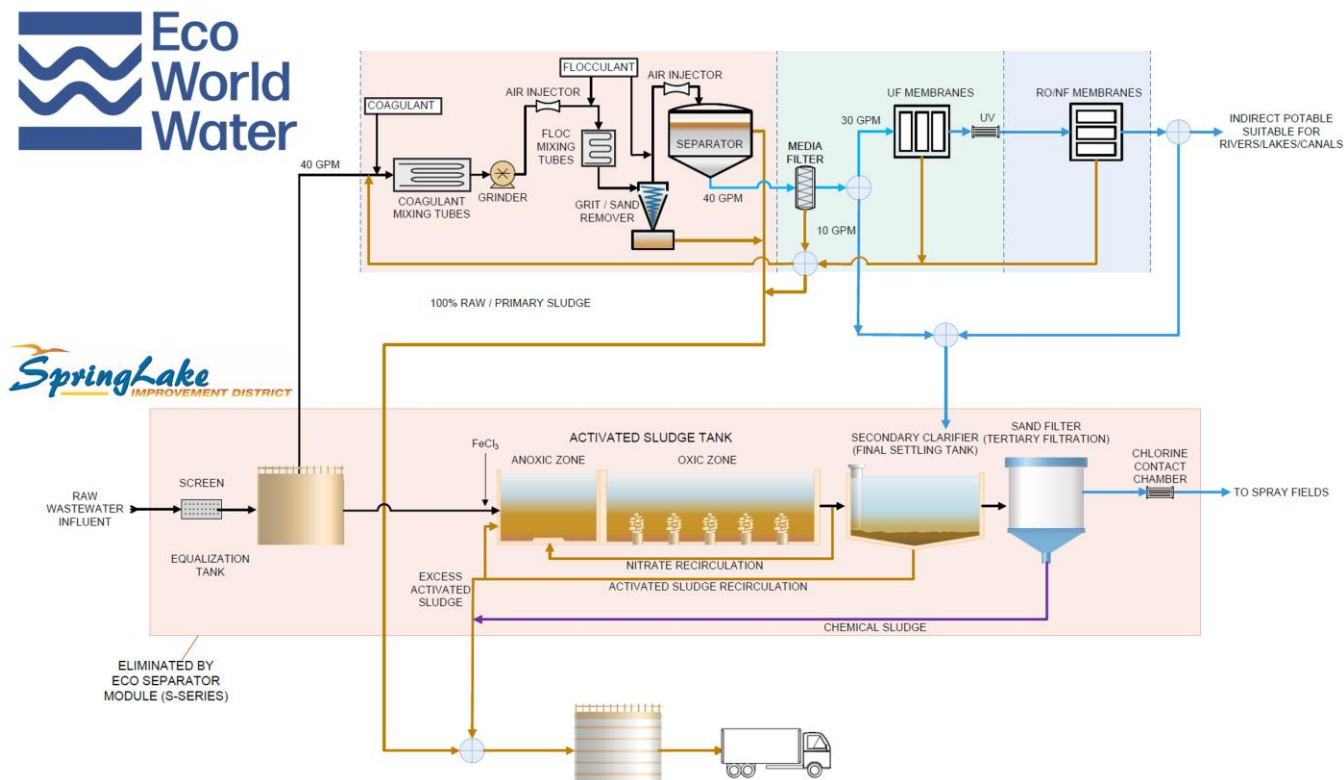


Figure 1: Integrated Flow Diagram (As Tested)

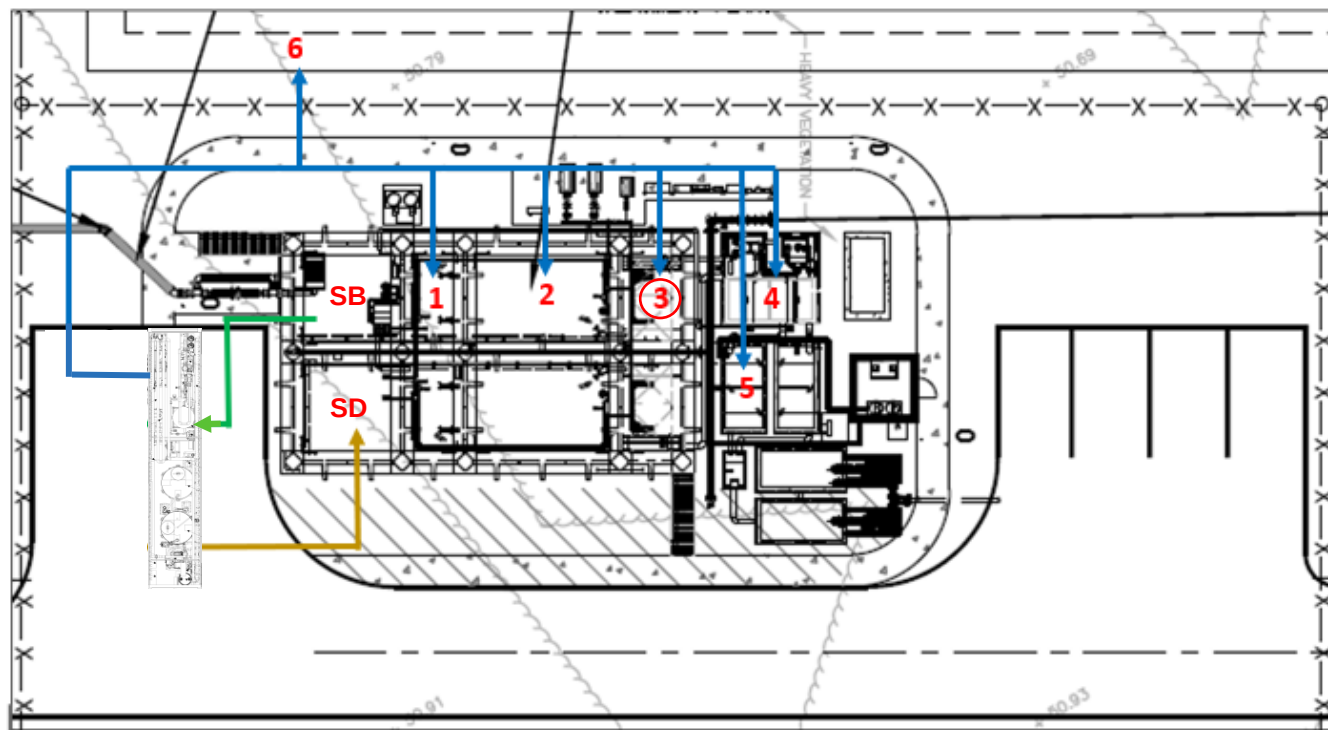


Figure 2: Eco System integrated into Spring Lake WWTP (As Tested)

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2.3 Final Testing Configuration and Setup (As Tested)

2.3.1 Test Port Locations (As Tested)

The following five (5) test port locations have been selected to collect data on the four (4) stages of purification of the Eco System and compare their results to the raw wastewater source. The five (5) test port locations are:

1. Raw Wastewater Source
2. After the Separator Module (Stage 1)
3. After the Media Filtration Module (Stage 2)
4. After the UV (Stage 4)
5. After the RO Module (Stage 5)

Figure 3 below shows the locations on the flow diagram.

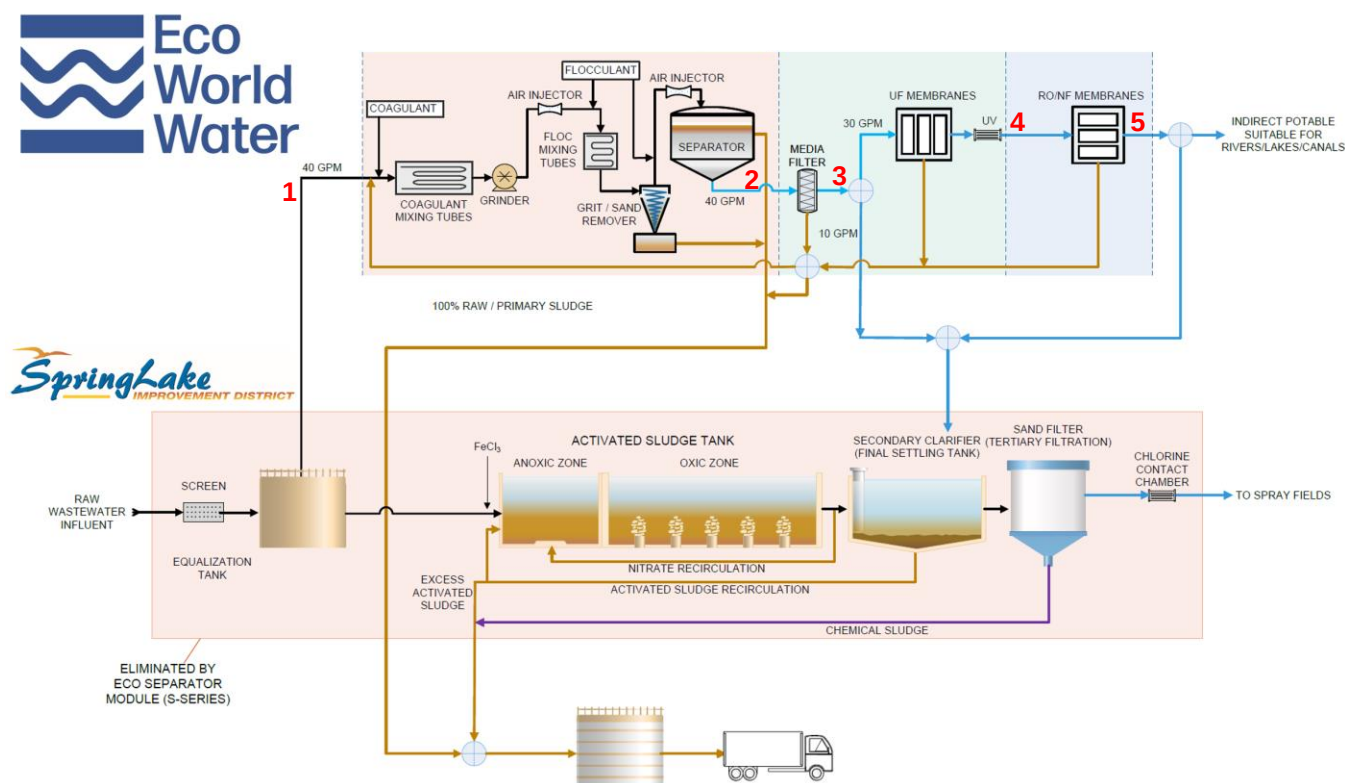


Figure 3: Test Port Locations (As Tested)

2.3.2 Contaminants/Parameters Tested

The following main parameters were tested three (3) times per week for the entire duration of the program at each of the five (5) port locations: Total Suspended Solids (TSS), Total Dissolved Solids (TDS), Total Nitrogen (TN), Total Phosphorus (TP), CBOD₅, TKN, Nitrites, Nitrates, pH and Fecal Coliform. Full drinking water tests per the EPA primary and secondary drinking water standards were performed one (1) time per week at the raw

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wastewater influent port (Port 1) and at the RO product water port (Port 5). Additionally, PFAS chemicals were added to these, one (1) time per week, drinking water tests.

2.3.3 Sampling

Composite samples were obtained by collecting four (4) grab samples directly from the test ports into the individual containers for each parameter every 30 minutes. Samples were collected directly from the test ports to the containers to prevent contamination of the samples.

2.3.4 Test Performed

Table 1 below reflects the tests performed during the entire test plan.

Week	Day	Test #	Parameters Tested	Port Location
1	We	1	Full Drinking Water Test	1 – Raw Wastewater
1	We	2	TSS, TDS, TN, TP, CBOD5, Nitrites, Nitrates, pH, F. Coli	2 – Separator Module
1	We	3	TSS, TDS, TN, TP, CBOD5, Nitrites, Nitrates, pH, F. Coli	3 – Media Filter
1	We	4	TSS, TDS, TN, TP, CBOD5, Nitrites, Nitrates, pH, Pathogens	4 – Irrigation Module
1	We	5	Full Drinking Water Test	5 – Indirect Potable Module
1	Th	6	TSS, TDS, TN, TP, CBOD5, Nitrites, Nitrates, pH, F. Coli	1 – Raw Wastewater
1	Th	7	TSS, TDS, TN, TP, CBOD5, Nitrites, Nitrates, pH, F. Coli	2 – Separator Module
1	Th	8	TSS, TDS, TN, TP, CBOD5, Nitrites, Nitrates, pH, F. Coli	3 – Media Filter
1	Th	9	TSS, TDS, TN, TP, CBOD5, Nitrites, Nitrates, pH, F. Coli	4 – Irrigation Module
1	Th	10	TSS, TDS, TN, TP, CBOD5, Nitrites, Nitrates, pH, F. Coli	5 – Indirect Potable Module
1	Fr	11	TSS, TDS, TN, TP, CBOD5, Nitrites, Nitrates, pH, F. Coli	1 – Raw Wastewater
1	Fr	12	TSS, TDS, TN, TP, CBOD5, Nitrites, Nitrates, pH, F. Coli	2 – Separator Module
1	Fr	13	TSS, TDS, TN, TP, CBOD5, Nitrites, Nitrates, pH, F. Coli	3 – Media Filter
1	Fr	14	TSS, TDS, TN, TP, CBOD5, Nitrites, Nitrates, pH, F. Coli	4 – Irrigation Module
1	Fr	15	TSS, TDS, TN, TP, CBOD5, Nitrites, Nitrates, pH, F. Coli	5 – Indirect Potable Module
2	Tu	16	Full Drinking Water Test	1 – Raw Wastewater
2	Tu	17	TSS, TDS, TN, TP, CBOD5, Nitrites, Nitrates, pH, F. Coli	2 – Separator Module
2	Tu	18	TSS, TDS, TN, TP, CBOD5, Nitrites, Nitrates, pH, F. Coli	3 – Media Filter
2	Tu	19	TSS, TDS, TN, TP, CBOD5, Nitrites, Nitrates, pH, Pathogens	4 – Irrigation Module
2	Tu	20	Full Drinking Water Test	5 – Indirect Potable Module
2	Th	21	TSS, TDS, TN, TP, CBOD5, Nitrites, Nitrates, pH, F. Coli	1 – Raw Wastewater
2	Th	22	TSS, TDS, TN, TP, CBOD5, Nitrites, Nitrates, pH, F. Coli	2 – Separator Module
2	Th	23	TSS, TDS, TN, TP, CBOD5, Nitrites, Nitrates, pH, F. Coli	3 – Media Filter
2	Th	24	TSS, TDS, TN, TP, CBOD5, Nitrites, Nitrates, pH, F. Coli	4 – Irrigation Module
2	Th	25	TSS, TDS, TN, TP, CBOD5, Nitrites, Nitrates, pH, F. Coli	5 – Indirect Potable Module
2	Fr	26	TSS, TDS, TN, TP, CBOD5, Nitrites, Nitrates, pH, F. Coli	1 – Raw Wastewater
2	Fr	27	TSS, TDS, TN, TP, CBOD5, Nitrites, Nitrates, pH, F. Coli	2 – Separator Module
2	Fr	28	TSS, TDS, TN, TP, CBOD5, Nitrites, Nitrates, pH, F. Coli	3 – Media Filter
2	Fr	29	TSS, TDS, TN, TP, CBOD5, Nitrites, Nitrates, pH, F. Coli	4 – Irrigation Module
2	Fr	30	TSS, TDS, TN, TP, CBOD5, Nitrites, Nitrates, pH, F. Coli	5 – Indirect Potable Module
3	Tu	31	Full Drinking Water Test	1 – Raw Wastewater
3	Tu	32	TSS, TDS, TN, TP, CBOD5, Nitrites, Nitrates, pH, F. Coli	2 – Separator Module
3	Tu	33	TSS, TDS, TN, TP, CBOD5, Nitrites, Nitrates, pH, F. Coli	3 – Media Filter
3	Tu	34	TSS, TDS, TN, TP, CBOD5, Nitrites, Nitrates, pH, Pathogens	4 – Irrigation Module

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Week	Day	Test #	Parameters Tested	Port Location
3	Tu	35	Full Drinking Water Test	5 – Indirect Potable Module
3	We	36	TSS, TDS, TN, TP, CBOD5, Nitrites, Nitrates, pH, F. Coli	1 – Raw Wastewater
3	We	37	TSS, TDS, TN, TP, CBOD5, Nitrites, Nitrates, pH, F. Coli	2 – Separator Module
3	We	38	TSS, TDS, TN, TP, CBOD5, Nitrites, Nitrates, pH, F. Coli	3 – Media Filter
3	We	39	TSS, TDS, TN, TP, CBOD5, Nitrites, Nitrates, pH, F. Coli	4 – Irrigation Module
3	We	40	TSS, TDS, TN, TP, CBOD5, Nitrites, Nitrates, pH, F. Coli	5 – Indirect Potable Module
3	Th	41	TSS, TDS, TN, TP, CBOD5, Nitrites, Nitrates, pH, F. Coli	1 – Raw Wastewater
3	Th	42	TSS, TDS, TN, TP, CBOD5, Nitrites, Nitrates, pH, F. Coli	2 – Separator Module
3	Th	43	TSS, TDS, TN, TP, CBOD5, Nitrites, Nitrates, pH, F. Coli	3 – Media Filter
3	Th	44	TSS, TDS, TN, TP, CBOD5, Nitrites, Nitrates, pH, F. Coli	4 – Irrigation Module
3	Th	45	TSS, TDS, TN, TP, CBOD5, Nitrites, Nitrates, pH, F. Coli	5 – Indirect Potable Module
4	We	46	Full Drinking Water Test	1 – Raw Wastewater
4	We	47	TSS, TDS, TN, TP, CBOD5, Nitrites, Nitrates, pH, F. Coli	2 – Separator Module
4	We	48	TSS, TDS, TN, TP, CBOD5, Nitrites, Nitrates, pH, F. Coli	3 – Media Filter
4	We	49	TSS, TDS, TN, TP, CBOD5, Nitrites, Nitrates, pH, Pathogens	4 – Irrigation Module
4	We	50	Full Drinking Water Test	5 – Indirect Potable Module
4	Th	51	TSS, TDS, TN, TP, CBOD5, Nitrites, Nitrates, pH, F. Coli	1 – Raw Wastewater
4	Th	52	TSS, TDS, TN, TP, CBOD5, Nitrites, Nitrates, pH, F. Coli	2 – Separator Module
4	Th	53	TSS, TDS, TN, TP, CBOD5, Nitrites, Nitrates, pH, F. Coli	3 – Media Filter
4	Th	54	TSS, TDS, TN, TP, CBOD5, Nitrites, Nitrates, pH, F. Coli	4 – Irrigation Module
4	Th	55	TSS, TDS, TN, TP, CBOD5, Nitrites, Nitrates, pH, F. Coli	5 – Indirect Potable Module
4	Fr	56	TSS, TDS, TN, TP, CBOD5, Nitrites, Nitrates, pH, F. Coli	1 – Raw Wastewater
4	Fr	57	TSS, TDS, TN, TP, CBOD5, Nitrites, Nitrates, pH, F. Coli	2 – Separator Module
4	Fr	58	TSS, TDS, TN, TP, CBOD5, Nitrites, Nitrates, pH, F. Coli	3 – Media Filter
4	Fr	59	TSS, TDS, TN, TP, CBOD5, Nitrites, Nitrates, pH, F. Coli	4 – Irrigation Module
4	Fr	60	TSS, TDS, TN, TP, CBOD5, Nitrites, Nitrates, pH, F. Coli	5 – Indirect Potable Module

Table 1: Test Matrix

2.3.5 Testing Facility and Courier

The testing facility selected and used for the entire testing program was:

Eurofins – Orlando
(Formerly Flowers Chemical Laboratories, Inc.)

481 Newburyport Avenue
Altamonte Springs, FL 32701
(407) 339-5984

Eurofins is a world leader in testing with over 65,000 employees and over 950 laboratories worldwide in 60 countries. They were the best lab in the US to comply with all of the test requirements and the only lab in Florida capable of testing for all of the parameters in the full EPA primary and secondary drinking standards.

The Eurofins Lab provided Eco with sampling kits in advance of each test date with prelabeled bottles specific for the EPA testing method for each of the parameters in large coolers. Additionally, a courier service picked up the samples in the coolers at 12:00 pm on each of the test dates from the Spring Lake WWTP Pilot location and transported them directly to the Eurofins Lab where it would arrive at approximately 3:00 pm.

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The lab used for the testing performed on January 6, 2026 and January 8, 2026, to demonstrate the system's capabilities to lower the Total Nitrogen (TN) even further to non-detect levels was:

Advanced Environmental Laboratories, Inc

125 Tower Street
Lake Placid, FL 33852
(863) 655-4022

3 Results

3.1 Main Parameters

The main parameters (TSS, TDS, TN, TP, CBOD5, TKN, Nitrites, Nitrates, pH, and Fecal Coliform) were tested on every test date from all of the ports.

Total Suspended Solids (mg/L)																
Module	MCL				11/5	11/6	11/7	11/11	11/13	11/14	11/18	11/19	11/20	12/3	12/4	12/5
	Class 3	Irrig	AWT	DW												
1 - Raw Wastewater	20	20	5.0	-	51	35	43	62	26	31	31	23	22	25	28	39
2 - Separator Module	20	20	5.0	-	8.4	8.5	14.0	12.0	10.0	13.0	6.6	15.0	8.0	11.0	11.0	9.0
3 - Media Filter	20	20	5.0	-	8.0	6.6	7.5	8.3	8.3	8.2	8.8	11.0	7.7	7.0	9.5	4.2
4 - Irrigation Module	20	20	5.0	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
5 - Indirect Potable Module	20	20	5.0	-	3.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

Table 2: Total Suspended Solids (TSS) Results

Total Dissolved Solids - TDS (mg/L)																
Module	MCL				11/5	11/6	11/7	11/11	11/13	11/14	11/18	11/19	11/20	12/3	12/4	12/5
	Class 3	Irrig	AWT	DW												
1 - Raw Wastewater	500	500	500	500	370	390	380	340	390	370	370	380	370	350	380	380
2 - Separator Module	500	500	500	500	350	350	330	320	350	340	140	330	340	360	350	340
3 - Media Filter	500	500	500	500	350	340	340	320	360	330	340	330	320	350	330	320
4 - Irrigation Module	500	500	500	500	330	340	330	320	370	330	320	320	330	290	340	330
5 - Indirect Potable Module	500	500	500	500	18	36	42	46	42	72	44	88	44	18	110	90

Table 3: Total Dissolved Solids (TDS) Results

Total Nitrogen - TN (mg/L)																
Module	MCL				11/5	11/6	11/7	11/11	11/13	11/14	11/18	11/19	11/20	12/3	12/4	12/5
	Class 3	Irrig	AWT	DW												
1 - Raw Wastewater	10	5.0	3.0	-	73	64	74	66	67	68	69	76	46	67	100	58
2 - Separator Module	10	5.0	3.0	-	66	46	70	58	61	69	85	74	48	69	100	51
3 - Media Filter	10	5.0	3.0	-	63	59	67	58	56	64	84	75	140	70	95	63
4 - Irrigation Module	10	5.0	3.0	-	61	55	63	55	56	63	82	64	94	71	97	54
5 - Indirect Potable Module	10	5.0	3.0	-	2.9	2.7	2.6	2.1	2.1	1.9	2.4	2.3	2.2	2.0	1.7	3.1

Table 4: Total Nitrogen (TN) Results

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Total Phosphorus (mg/L)																
Module	MCL				11/5	11/6	11/7	11/11	11/13	11/14	11/18	11/19	11/20	12/3	12/4	12/5
	Class 3	Irrig	AWT	DW												
1 - Raw Wastewater	6.0	1.0	1.0	-	7.2	7	6.9	6.2	6	9.1	8.7	6.9	6.9	6.3	6.2	6.5
2 - Separator Module	6.0	1.0	1.0	-	5.8	5.1	4.2	3.1	2.8	5.1	6.6	4.3	4.7	4.4	4.0	4.2
3 - Media Filter	6.0	1.0	1.0	-	3.0	4.3	3.2	1.2	1.6	3.7	6.2	4.1	5.1	1.8	2.6	7.5
4 - Irrigation Module	6.0	1.0	1.0	-	3.7	4.1	4.0	1.9	2.5	4.7	6.2	4.7	4.6	2.2	4.1	5.0
5 - Indirect Potable Module	6.0	1.0	1.0	-	0.010	0.040	0.094	0.040	0.040	0.040	1.000	0.056	0.081	0.040	0.040	0.066

Table 5: Total Phosphorus (TP) Results

CBOD (mg/L)																
Module	MCL				11/5	11/6	11/7	11/11	11/13	11/14	11/18	11/19	11/20	12/3	12/4	12/5
	Class 3	Irrig	AWT	DW												
1 - Raw Wastewater	20	20	5.0	-	60	33	24	21	25	27	26	35	30	17	29	29
2 - Separator Module	20	20	5.0	-	8.1	6.8	5.8	5.8	7.3	6.9	6.6	7.5	5.7	6.6	6.4	6.0
3 - Media Filter	20	20	5.0	-	7.2	6.9	5.2	5.2	6.2	6.6	6.2	6.8	6.7	6.4	5.0	4.8
4 - Irrigation Module	20	20	5.0	-	8.0	5.5	3.8	2.8	5.0	3.5	4.5	7.1	7.6	4.9	4.0	4.0
5 - Indirect Potable Module	20	20	5.0	-	4.6	2.8	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U

Table 6: CBOD Results

TKN (mg/L)																
Module	MCL				11/5	11/6	11/7	11/11	11/13	11/14	11/18	11/19	11/20	12/3	12/4	12/5
	Class 3	Irrig	AWT	DW												
1 - Raw Wastewater	10	5.0	3.0	-	73	64	74	66	64	68	69	76	75	67	100	58
2 - Separator Module	10	5.0	3.0	-	66.0	46.0	70.0	58.0	58.0	68.0	85.0	74.0	76.0	69.0	100.0	51.0
3 - Media Filter	10	5.0	3.0	-	62.0	59.0	66.0	57.0	53.0	63.0	84.0	75.0	140.0	69.0	94.0	63.0
4 - Irrigation Module	10	5.0	3.0	-	60.0	55.0	63.0	55.0	53.0	62.0	82.0	64.0	94.0	70.0	96.0	54.0
5 - Indirect Potable Module	10	5.0	3.0	-	2.9	2.7	2.6	2.1	2.0	1.9	2.4	2.3	2.2	2.0	1.7	3.1

Table 7: TKN Results

Nitrite as N (mg/L)																
Module	MCL				11/5	11/6	11/7	11/11	11/13	11/14	11/18	11/19	11/20	12/3	12/4	12/5
	Class 3	Irrig	AWT	DW												
1 - Raw Wastewater	-	5.0	3.0	1.0	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.38	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
2 - Separator Module	-	5.0	3.0	1.0	0.10 U	0.10 U	0.14	0.10 U	0.10 U	0.40	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
3 - Media Filter	-	5.0	3.0	1.0	0.17	0.10 U	0.15	0.10 U	0.10 U	0.40	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
4 - Irrigation Module	-	5.0	3.0	1.0	0.16	0.20	0.15	0.10 U	0.10 U	0.38	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
5 - Indirect Potable Module	-	5.0	3.0	1.0	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U

Table 8: Nitrite as N Results

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Nitrate as N (mg/L)																
Module	MCL				11/5	11/6	11/7	11/11	11/13	11/14	11/18	11/19	11/20	12/3	12/4	12/5
	Class 3	Irrig	AWT	DW												
1 - Raw Wastewater	12	5.0	3.0	10	0.10 U	0.10 U	0.10 U	0.10 U	2.6	0.10 U	0.10 U	0.10 U	0.10 U	0.23	0.64	0.10 U
2 - Separator Module	12	5.0	3.0	10	0.10 U	0.16	0.26	0.18	2.9	0.29	0.10 U	0.17	0.15	0.27	1.0	0.30
3 - Media Filter	12	5.0	3.0	10	0.61	0.24	0.38	0.59	3.0	0.36	0.29	0.19	0.15	0.72	1.2	0.26
4 - Irrigation Module	12	5.0	3.0	10	0.40	0.20	0.26	0.28	2.6	0.27	0.10 U	0.13	0.14	0.56	0.96	0.19
5 - Indirect Potable Module	12	5.0	3.0	10	0.10 U	0.10 U	0.10 U	0.10 U	0.14 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U

Table 9: Nitrate as N Results

pH																
Module	MCL				11/5	11/6	11/7	11/11	11/13	11/14	11/18	11/19	11/20	12/3	12/4	12/5
	Class 3	Irrig	AWT	DW												
1 - Raw Wastewater	6.0-8.5	6.0-8.5	6.0-8.5	6.5-8.0	7	7.3	7	7.5	6.7	7.1	7.3	7.5	6.9	7.5	7.4	7.1
2 - Separator Module	6.0-8.5	6.0-8.5	6.0-8.5	6.5-8.0	7.7	7.8	7.7	7.7	7.8	7.7	7.4	7.8	7.2	8.1	7.9	7.4
3 - Media Filter	6.0-8.5	6.0-8.5	6.0-8.5	6.5-8.0	7.7	6.8	7.8	7.8	7.5	7.7	7.8	7.7	7.3	8.1	7.8	7.5
4 - Irrigation Module	6.0-8.5	6.0-8.5	6.0-8.5	6.5-8.0	7.7	7.7	7.8	7.8	7.4	7.7	7.8	7.5	7.2	8.0	7.8	7.4
5 - Indirect Potable Module	6.0-8.5	6.0-8.5	6.0-8.5	6.5-8.0	5.4	6.4	6.6	6.7	6.5	7.6	6.4	7.7	6.9	7.0	6.7	6.7

Table 10: pH Results

Total Fecal Coliform (MPN/100mL)																
Module	MCL				11/5	11/6	11/7	11/11	11/13	11/14	11/18	11/19	11/20	12/3	12/4	12/5
	Class 3	Irrig	AWT	DW												
1 - Raw Wastewater	200	0	0	0	154020	92220	310620	28420	483920	483920	66080	693160	108120	418480	693160	229920
2 - Separator Module	200	0	0	0	172.3	435.2	1046.2	727.0	>2419.6	2419.6	165.2	>2419.6	>2419.6	>2419.6	>2419.6	613.1
3 - Media Filter	200	0	0	0	186.0	307.6	248.1	261.3	435.2	579.4	165.2	1986.3	>2419.6	435.2	1732.9	298.7
4 - Irrigation Module	200	0	0	0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
5 - Indirect Potable Module	200	0	0	0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

Table 11: Fecal Coliform Results

3.2 EPA Primary and Secondary Drinking Water Standard Parameters

Contaminant	MCL/TT (mg/L)	11/5/25	11/11/25	11/18/25	12/3/25
Primary Standard					
Acrylamide*	N/A*				
Alachlor	0.002	0.19 U ug/L	0.20 U ug/L	0.20 U ug/L	0.20 U ug/L
Alpha/Photon Emitters	15 pCi/L	0.0516 U pCi/L	-0.417 U pCi/L	-0.288 U pCi/L	0.651 pCi/L

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Contaminant	MCL/TT (mg/L)	11/5/25	11/11/25	11/18/25	12/3/25
Antimony	0.006	0.00041 U	0.00041 U	0.00041 U	0.00041 U
Arsenic	0.01	0.00039 U	0.00039 U	0.00039 U	0.00039 U
Asbestos (fibers > 10 micrometers)	7 MFL	<0.136 U	<0.137 U	<0.144 U	<0.172 U
Atrazine	0.003	0.097 U ug/L	0.098 U ug/L	0.099 U ug/L	0.098 U ug/L
Barium	2	0.00057	0.00037 U	0.00037 U	0.00037 U
Benzene	0.005	0.17 U ug/L	0.17 U ug/L	0.17 U ug/L	0.17 U ug/L
Benzo(a)pyrene (PAHs)	0.0002	0.019 U ug/L	0.020 U ug/L	0.020 U ug/L	0.020 U ug/L
Beryllium	0.004	0.00032 U	0.00032 U	0.00032 U	0.00032 U
Beta Photon Emitters	15 pCi/L	0.451 U	0.509 U	0.511 pCi/L	0.759 pCi/L
Bromate*	0.01				
Cadmium	0.005	0.00025 U	0.00025 U	0.00025 U	0.00025 U
Carbofuran	0.04	0.40 U ug/L	0.40 U ug/L	0.40 U ug/L	0.40 U ug/L
Carbon Tetrachloride	0.005	0.28 U ug/L	0.28 U ug/L	0.28 U ug/L	0.28 U ug/L
Chloramines*	MRDL=4.0				
Chlordane	0.002	0.010 U ug/L	0.010 U ug/L	0.010 U ug/L	0.010 U ug/L
Chlorine (Cl ₂) *	MRDL=4.0				
Chlorine Dioxide (ClO ₂)*	MRDL=0.8				
Chlorite*	1				
Chlorobenzene	0.1	0.30 U ug/L	0.30 U ug/L	0.30 U ug/L	0.30 U ug/L
Chromium (total)	0.1	0.0013	0.0019	0.0011	0.0012
Copper	TT, Action Level 1.3	0.00064 U	0.00064 U	0.00064 U	0.00064 U
Cryptosporidium***	99% removal	U	U	U	U
Cyanide	0.2	0.0050 U	0.0050 U	0.0069	0.0050 U
2,4-D	0.07	0.022 U ug/L	0.022 U ug/L	0.022 U ug/L	0.022 U ug/L
Dalapon	0.2	0.022 U ug/L	0.022 U ug/L	0.022 U ug/L	0.022 U ug/L
1,2-Dibromo-3-chloropropane (DBCP)	0.0002	0.020 U ug/L	0.020 U ug/L	0.020 U ug/L	0.020 U ug/L
o-Dichlorobenzene	0.6	0.32 U ug/L	0.32 U ug/L	0.32 U ug/L	0.32 U ug/L
1,2-Dichloroethane	0.005	0.23 U ug/L	0.23 U ug/L	0.23 U ug/L	0.23 U ug/L
1,1-Dichloroethylene	0.007	0.39 U ug/L	0.39 U ug/L	0.39 U ug/L	0.39 U ug/L
cis-1,2-Dichloroethylene	0.07	0.19 U ug/L	0.19 U ug/L	0.19 U ug/L	0.19 U ug/L
trans-1,2-Dichloroethylene	0.1	0.33 U ug/L	0.33 U ug/L	0.33 U ug/L	0.33 U ug/L
Dichloromethane	0.005	0.50 U ug/L	0.50 U ug/L	0.50 U ug/L	0.50 U ug/L
1,2-Dichloropropane	0.005	0.43 U ug/L	0.43 U ug/L	0.43 U ug/L	0.43 U ug/L
Di(2-ethylhexyl)adipate	0.4	0.58 U ug/L	0.59 U ug/L	0.59 U ug/L	0.59 U ug/L
Di(2-ethylhexyl)phthalate	0.006	0.58 U ug/L	0.59 U ug/L	0.59 U ug/L	0.59 U ug/L
Dinoseb	0.007	0.028 U ug/L	0.028 U ug/L	0.028 U ug/L	0.028 U ug/L
Dioxin (2,3,7,8-TCDD)	0.00000003	1.9 U pg/L	1.9 U pg/L	1.9 U pg/L	1.9 U pg/L
Diquat	0.02	0.40 U ug/L	0.40 U ug/L	0.40 U ug/L	0.40 U ug/L

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Contaminant	MCL/TT (mg/L)	11/5/25	11/11/25	11/18/25	12/3/25
Endothall	0.1	9.0 U ug/L	9.0 U ug/L	9.0 U ug/L	9.0 U ug/L
Endrin	0.002	0.010 U ug/L	0.010 U ug/L	0.010 U ug/L	0.010 U ug/L
Epichlorohydrin	n/a*	3.0 U ug/L	3.0 U ug/L	3.0 U ug/L	3.0 U ug/L
Ethylbenzene	0.7	0.24 U ug/L	0.24 U ug/L	0.24 U ug/L	0.24 U ug/L
Fecal Coliform and E. Coli	MCL6	Fecal Coliform 1.0 U MPN/100mL; E. Coli 1.0 U MPN/100mL	Fecal Coliform 1.0 U MPN/100mL; E. Coli 1.0 U MPN/100mL	Fecal Coliform 1.0 U MPN/100mL; E. Coli 1.0 U MPN/100mL	Fecal Coliform 1.0 U MPN/100mL; E. Coli 1.0 U MPN/100mL
Fluoride	4	0.10 U	0.10 U	0.10 U	0.10 U
Giardia Lamblia***	99.9 % removal	U	U	U	U
Glyphosate	0.7	6.0 U ug/L	6.0 U ug/L	6.0 U ug/L	6.0 U ug/L
Haloacetic Acids (HAA5)	0.06	All components U	All components U	1.60 ug/L	1.51 ug/L
Heptachlor	0.0004	0.010 U ug/L	0.010 U ug/L	0.010 U ug/L	0.010 U ug/L
Heptachlor Epoxide	0.0002	0.010 U ug/L	0.010 U ug/L	0.010 U ug/L	0.010 U ug/L
Heterotrophic Plate Count (HPC)	<500	23	13 CFU/mL	10 CFU/mL	0.5 U CFU/mL
Hexachlorobenzene	0.001	0.10 U ug/L	0.10 U ug/L	0.10 U ug/L	0.10 U ug/L
Hexachlorocyclopentadiene	0.05	0.10 U ug/L	0.10 U ug/L	0.10 U ug/L	0.10 U ug/L
Lead	TT, Action Level 0.015	0.00024 U	0.00024 U	0.00024 U	0.00024 U
Legionella	No limit*	100 U MPN/100mL	100 U MPN/100mL	100 U MPN/100mL	1.0 U MPN/100mL
Lindane	0.0002	0.010 U ug/L	0.010 U ug/L	0.010 U ug/L	0.010 U ug/L
Mercury (inorganic)	0.002	0.00020 U	0.00020 U	0.00020 U	0.00020 U
Methoxychlor	0.04	0.050 U ug/L	0.050 U ug/L	0.050 U ug/L	0.050 U ug/L
Nitrate	10	0.10 U	0.10 U	0.10 U	0.10 U
Nitrite	1	0.10 U	0.10 U	0.10 U	0.10 U
Oxamyl (Vydate)	0.2	0.40 U ug/L	0.40 U ug/L	0.40 U ug/L	0.40 U ug/L
Pentachlorophenol	0.001	0.017 U ug/L	0.017 U ug/L	0.017 U ug/L	0.017 U ug/L
Picloram	0.5	0.019 U ug/L	0.019 U ug/L	0.019 U ug/L	0.019 U ug/L
Polychlorinated Biphenyls (PCBs)	0.0005	0.10 U ug/L	0.10 U ug/L	0.10 U ug/L	0.10 U ug/L
Radium 226/Radium 228 (Combined)	5 pCi/L	0.057 U pCi/L	-0.411 U pCi/L	-0.0523 U pCi/L	0.361 pCi/L
Selenium	0.05	0.0010 U	0.0010 U	0.0010 U	0.0010 U
Simazine	0.004	0.068 U ug/L	0.069 U ug/L	0.069 U ug/L	0.068 U ug/L
Styrene	0.1	0.24 U ug/L	0.24 U ug/L	0.24 U ug/L	0.24 U ug/L
Tetrachloroethylene	0.005	0.37 U ug/L	0.37 U ug/L	0.37 U ug/L	0.37 U ug/L
Thallium	0.002	0.00035 U	0.00035 U	0.00035 U	0.00035 U
Toluene	1	0.23 U ug/L	0.23 U ug/L	0.23 U ug/L	0.23 U ug/L
Total Coliforms	5%	1.0 U	1.0 U MPN/100 mL	1.0 U MPN/100 mL	1.0 U
Total Trihalomethanes (TTHMs)	0.08	4.8 ug/L	7.6 ug/L	12 ug/L	15 ug/L

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Contaminant	MCL/TT (mg/L)	11/5/25	11/11/25	11/18/25	12/3/25
Toxaphene	0.003	0.50 U ug/L	0.50 U ug/L	0.50 U ug/L	0.50 U ug/L
2,4,5-TP (Silvex)	0.05	0.035 U ug/L	0.035 U ug/L	0.035 U ug/L	0.035 U ug/L
1,2,4-Trichlorobenzene	0.07	0.29 U ug/L	0.29 U ug/L	0.29 U ug/L	0.29 U ug/L
1,1,1-Trichloroethane	0.2	0.16 U ug/L	0.16 U ug/L	0.16 U ug/L	0.16 U ug/L
1,1,2-Trichloroethane	0.005	0.39 U ug/L	0.39 U ug/L	0.39 U ug/L	0.39 U ug/L
Trichloroethylene	0.005	0.34 U ug/L	0.34 U ug/L	0.34 U ug/L	0.34 U ug/L
Turbidity	1 NTU	0.6	0.3 NTU	0.30 NTU	0.5
Uranium	30 µg/L	0.15 U ug/L	0.15 U ug/L	0.15 U ug/L	0.15 U ug/L
Vinyl Chloride	0.002	0.40 U ug/L	0.40 U ug/L	0.40 U ug/L	0.40 U ug/L
Viruses	99.9% removal	U	U	U	U
Xylenes (total)	10	0.50 U ug/L	0.50 U ug/L	0.50 U ug/L	0.50 U ug/L
Secondary Standard					
Aluminum	0.05-0.2	0.0034 U	0.0034 U	0.0034 U	0.0034 U
Chloride	250	0.86	0.35	0.74	0.27
Color	15	5	5.0	5.0	5.0
Copper	1	0.00064 U	0.00064 U	0.00064 U	0.00064 U
Corrosivity	Noncorrosive	-8	-4.3	-8	-2.9
Fluoride	2	0.10 U	0.10 U	0.10 U	0.10 U
Foaming Agents**	0.5				
Iron	0.3	0.060 U	0.060 U	0.060 U	0.060 U
Manganese	0.05	0.0084 U	0.0084 U	0.0084 U	0.0084 U
Odor	3	5	10	1.0	20
Silver	0.1	0.000037 U	0.000037 U	0.000037 U	0.000037 U
Sulfate	250	0.50 U	0.50 U	0.50 U	0.50 U
Total Dissolved Solids	500	18	46	44	18
Zinc	5	0.0039	0.0013 U	0.0013 U	0.0013 U
PFAS					
Perfluorooctanoic Acid (PFOA)	4.00E-06	0.40 U ng/L	0.41 U ng/L	0.39 U ng/L	0.40 U ng/L
Perfluorooctane Sulfonate (PFOS)	4.00E-06	0.40 U ng/L	0.41 U ng/L	0.39 U ng/L	0.40 U ng/L
Perfluorohexane Sulfonic Acid (PFHxS)	4.00E-06	0.40 U ng/L	0.41 U ng/L	0.39 U ng/L	0.40 U ng/L
Perfluorononanoic Acid (PFNA)	4.00E-06	0.40 U ng/L	0.41 U ng/L	0.39 U ng/L	0.40 U ng/L
Perfluorodecanoic Acid (PFDA)	4.00E-06	0.40 U ng/L	0.41 U ng/L	0.39 U ng/L	0.40 U ng/L
Perfluorobutane Sulfonic Acid (PFBS)	4.00E-06	0.40 U ng/L	0.41 U ng/L	0.39 U ng/L	0.40 U ng/L
Perfluoroundecanoic Acid (PFUnA)	4.00E-06	0.40 U ng/L	0.41 U ng/L	0.39 U ng/L	0.40 U ng/L
Perfluorododecanoic Acid (PFDoA)	4.00E-06	0.40 U ng/L	0.41 U ng/L	0.39 U ng/L	0.40 U ng/L
Perfluorohexanoic Acid (PFHxA)	4.00E-06	0.40 U ng/L	0.41 U ng/L	0.39 U ng/L	0.40 U ng/L

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Contaminant	MCL/TT (mg/L)	11/5/25	11/11/25	11/18/25	12/3/25
Perfluorobutanoic Acid (PFBA)	4.00E-06	0.80 U ng/L	0.81 U ng/L	0.78 U ng/L	0.79 U ng/L
Perfluoropentanoic Acid (PFPeA)	4.00E-06	0.40 U ng/L	0.41 U ng/L	0.39 U ng/L	0.40 U ng/L

* Parameters with one asterisk are not being tested for due since that chemical is not used during our system's treatment process.

** Parameters with two asterisks are the name of a group of parameters that are being tested separately through the report.

*** Parameters with three asterisks are being tested under a different group name.

U – Undetected

TNTC – Too Numerous to Count

Table 12: Drinking Water Test Results

3.3 Additional Total Nitrogen Testing with Post RO Media Filter with Cation Resin

These results reflect performance with an added post-RO cation resin polishing filter, which is not part of the base Eco System configuration and was implemented to demonstrate capability to achieve ultra-low total nitrogen levels for more stringent surface water and sensitive receiving water requirements.

Total Nitrogen - TN (mg/L)		
Port	1/6/26	1/8/26
1 - Raw Wastewater	70.3	66.9
2 - RO	1.45	1.56
3 - Post RO Media Filter	0.12 U	0.12 U

Table 13: Additional TN Testing to Non-detect Levels.

TKN (mg/L)		
Port	1/6/26	1/8/26
1 - Raw Wastewater	68.8	66.4
2 - RO	1.45	1.56
3 - Post RO Media Filter	0.080 U	0.080 U

Table 14: Additional TKN Testing to Non-detect Levels.

Ammonia (mg/L)		
Port	1/6/26	1/8/26
1 - Raw Wastewater	73	57
2 - RO	1.5	1.6
3 - Post RO Media Filter	0.012 I	0.050 U

Table 15: Additional Ammonia Testing to Non-detect Levels.

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Nitrates + Nitrites (mg/L)		
Port	1/6/26	1/8/26
1 - Raw Wastewater	1.48	0.488
2 - RO	0.24	0.24 U
3 - Post RO Media Filter	0.24 U	0.24 U

Table 16: Additional Nitrates + Nitrites Testing to Non-detect Levels.

4 Analysis

4.1 Main Parameters

The **Eco Separation Module** exceeded the target goal of reducing the TSS to below 20 mg/L by consistently and reliably reducing the TSS to 15 mg/L or less during the entire testing program with an average of 10.5 mg/L. Additionally, the Eco Separation Module reduced the Fecal Coliform by an average of 99.3% exceeding the target of 95% reduction and reduced the CBOD by an average of 76% exceeding the target of 75% reduction. The Eco Separation Module also reduced the TP by an average of 35.6% and the TDS by an average of 12.7%.

The **Media Filtration System** also exceeded the target goal of reducing the TSS to below 10 mg/L by reducing the TSS to an average of 7.93 mg/L and 21.6% reduction. Additionally, it reduced the Fecal Coliform by an average of 41.6%, the CBOD by an average of 7.7%, and TP by an average of 19.8%.

The **Ultrafiltration (UF) Module** also met its target goal of consistently eliminating the remaining TSS by an average of 86.7% to non-detect levels and fully disinfecting the water by reducing the Fecal Coliform by an average of 99.7% to non-detect levels throughout the entire testing program. It also reduced the CBOD by an average of 18.2% to 5 mg/L.

The **Reverse Osmosis (RO) Module** achieved substantial removal of dissolved and nutrient-related constituents, supporting production of high-quality reclaimed water suitable for irrigation-grade reuse and Advanced Wastewater Treatment (AWT) applications.

The RO Module reduced the Total Dissolved Solids (TDS) by an average of 83.6% to an average effluent concentration of 54.2 mg/L, significantly exceeding the EPA secondary drinking water standard Maximum Contaminant Level (MCL) of 500 mg/L for TDS. This level of dissolved solids reduction supports production of high-quality reclaimed water suitable for advanced reuse applications.

The RO Module also achieved substantial reduction of Total Nitrogen (TN) and Total Kjeldahl Nitrogen (TKN), with an average reduction of 96.4% and an average post-RO TN concentration of 2.3 mg/L across representative steady-state operating conditions. These results are consistent with applicable TN criteria for irrigation-grade reuse and AWT applications.

One datapoint (12/5/25) exhibited an elevated post-RO TN concentration of 3.1 mg/L relative to the established operating envelope. As documented in Appendix B, this observation is classified as a special-cause, non-representative datapoint based on statistical process control (SPC) analysis and process behavior, and is excluded from steady-state performance characterization.

Supplemental testing further demonstrated that ammonia constituted a majority of the residual TN following RO treatment. For applications requiring more stringent nutrient limits, an optional post-RO polishing media filter with cation exchange capability was evaluated to provide enhanced ammonia and residual nitrogen removal. Results from January 6, 2026 and January 8, 2026 demonstrated that, when configured with this optional post-RO polishing step, the Eco System is capable of reducing the TN concentration to non-detect levels, achieving TN concentrations below the most stringent applicable criteria. This optional post-RO polishing configuration is not

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part of the base Eco System configuration for irrigation-grade reuse and AWT certification, but is available to support site-specific requirements for select surface water discharge and other nutrient-sensitive applications.

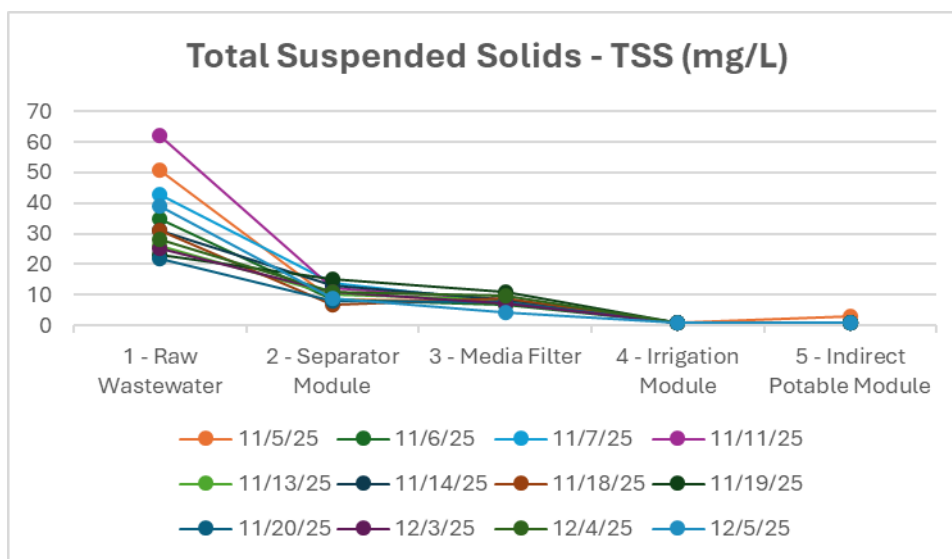
The RO Module also achieved substantial removal of additional regulated parameters. Total Phosphorus (TP) was reduced by an average of 97.4% to non-detect levels, and Carbonaceous Biochemical Oxygen Demand (CBOD) was reduced by an average of 52.6% to non-detect levels, exceeding applicable irrigation-grade reuse and AWT performance criteria. The RO Module also reduced nitrites and nitrates to non-detect levels across the certified testing period, supporting compliance with applicable reuse and AWT requirements for these parameters.

Total Nitrogen in wastewater is composed primarily of ammonia ($\text{NH}_3/\text{NH}_4^+$) and organic nitrogen. To enhance removal of the ammonium ion fraction, Eco implemented a pre-RO acid dosing process to adjust RO feed pH into the optimal operating range of approximately 6.0 to 6.5, where RO membranes exhibit improved rejection of ammonium ions and enhanced overall TN reduction. This operational enhancement was implemented prior to November 5, 2025.

Following implementation of pre-RO pH adjustment, post-RO permeate pH was monitored and, where necessary, corrected to maintain compliance with applicable irrigation and AWT pH criteria. A post-RO sodium bicarbonate dosing system was implemented to stabilize permeate pH above the minimum required value of 6.0. This post-RO pH correction process remained in operation for the duration of the pilot test program and consistently maintained permeate pH within the required regulatory range of pH 6.0 to 8.5 for irrigation-grade reuse and AWT applications. In addition, permeate pH remained within the applicable drinking water guideline range for the duration of the testing program.

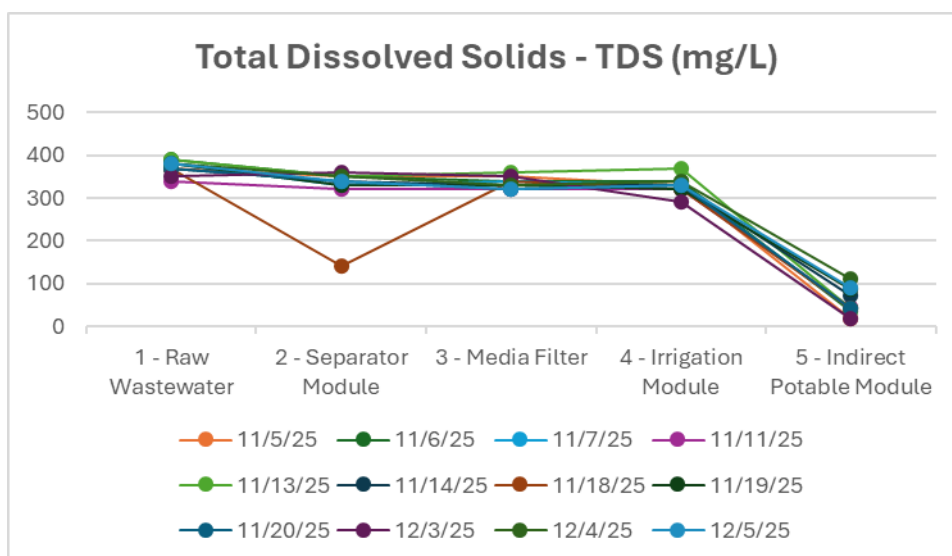
The graphs below demonstrate how the main parameters were eliminated as the water made its way through the entire Eco System. Section 4.1.1 shows all of the data points from all 12 of the test dates, and section 4.1.2 provides average values of all of the data from the entire testing program.

4.1.1 Graphs of Main Parameters

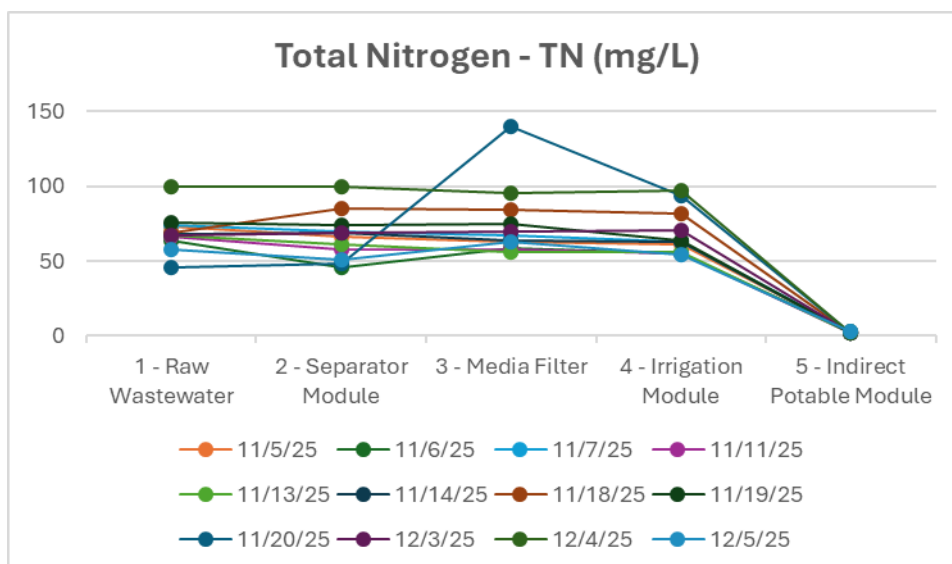


Graph 1: TSS Test Results

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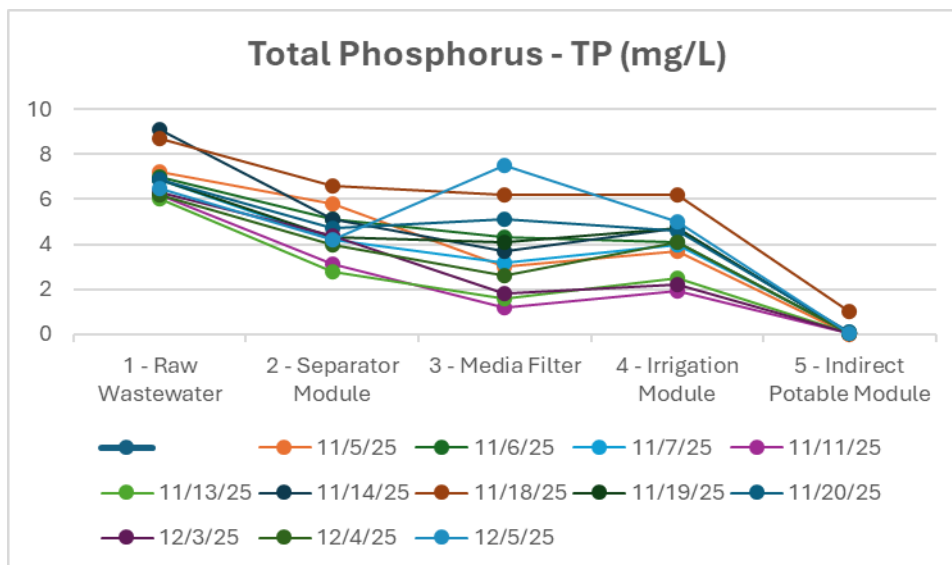


Graph 2: TDS Test Results

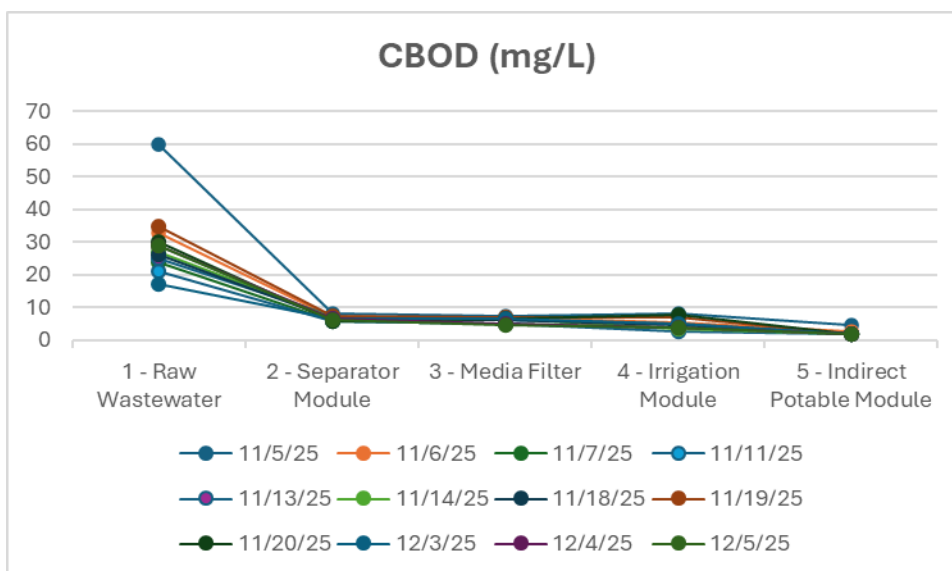


Graph 3: TN Test Results

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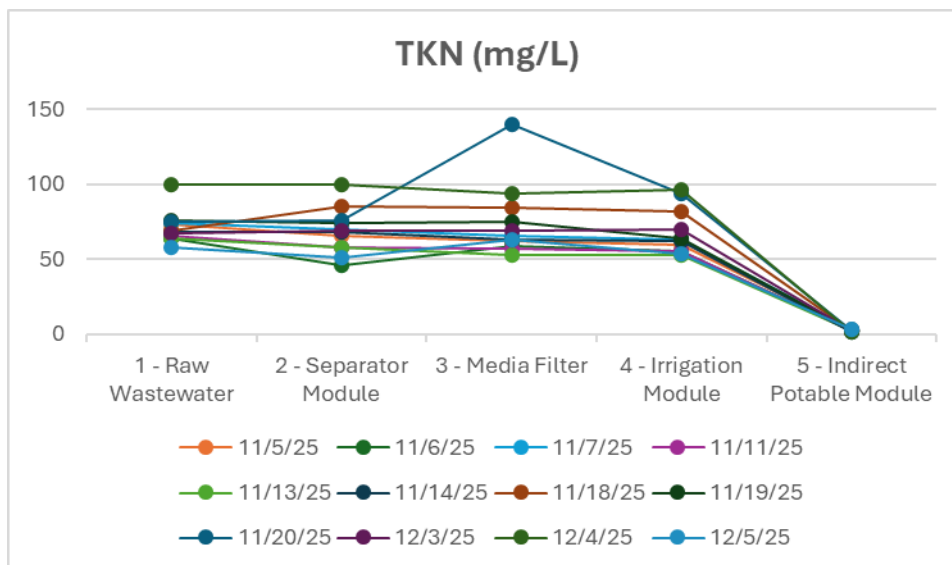


Graph 4: TP Test Results

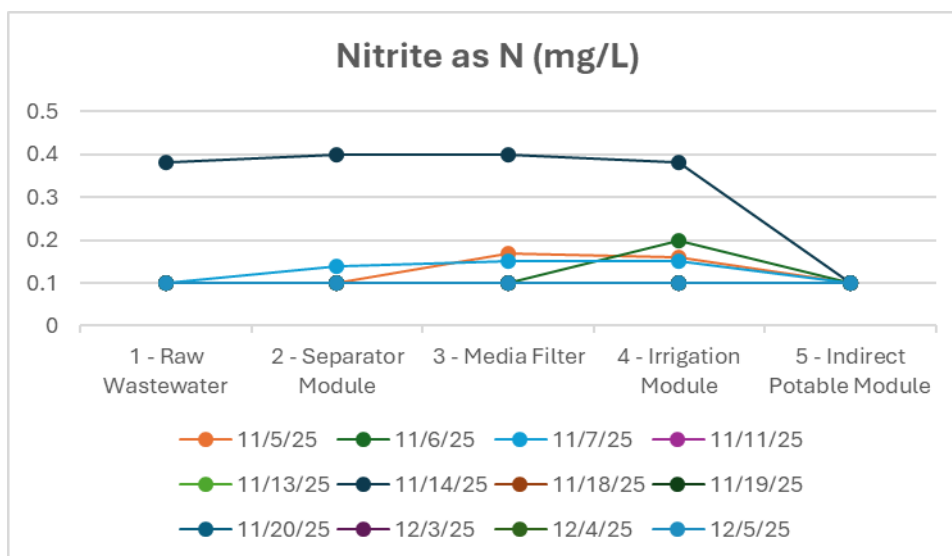


Graph 5: CBOD Test Results

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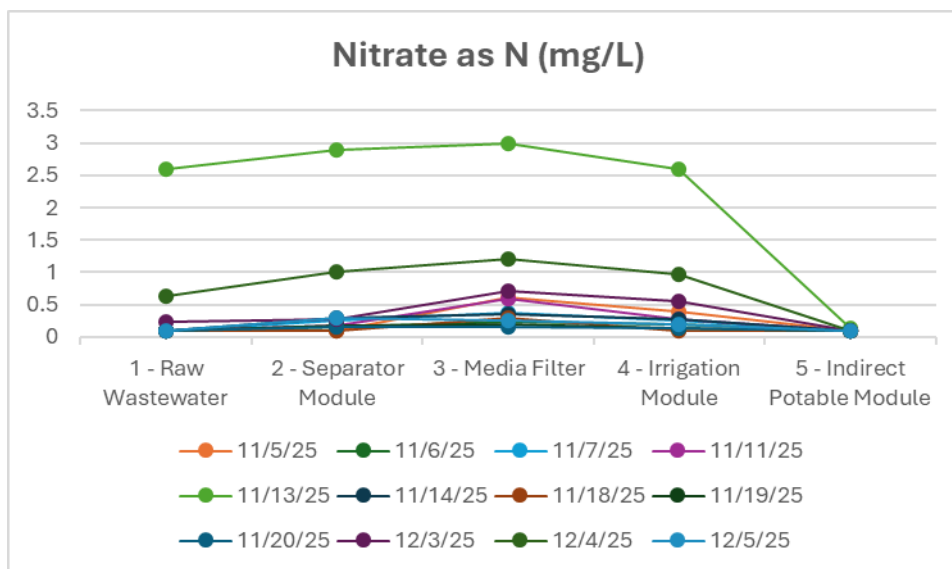


Graph 6: TKN Test Results

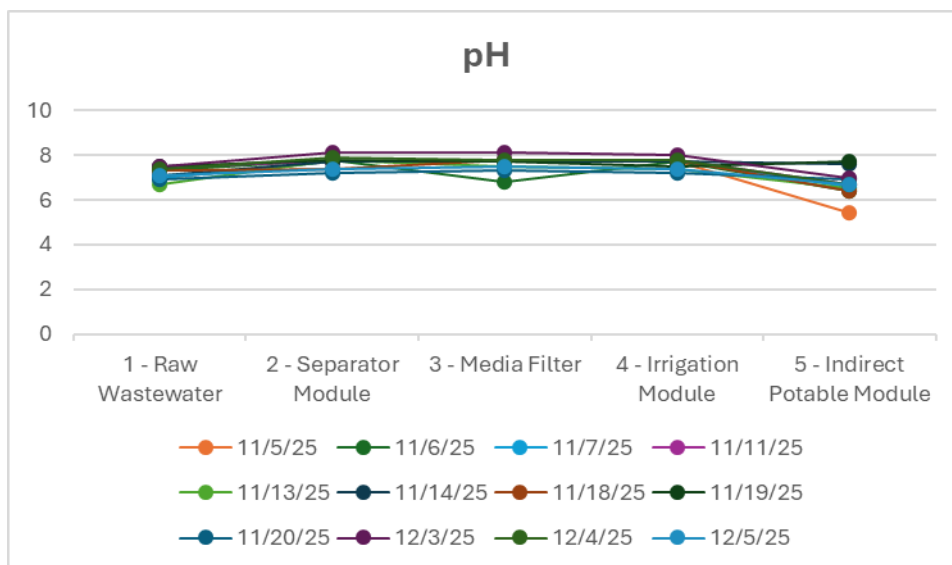


Graph 7: Nitrite as N Test Results

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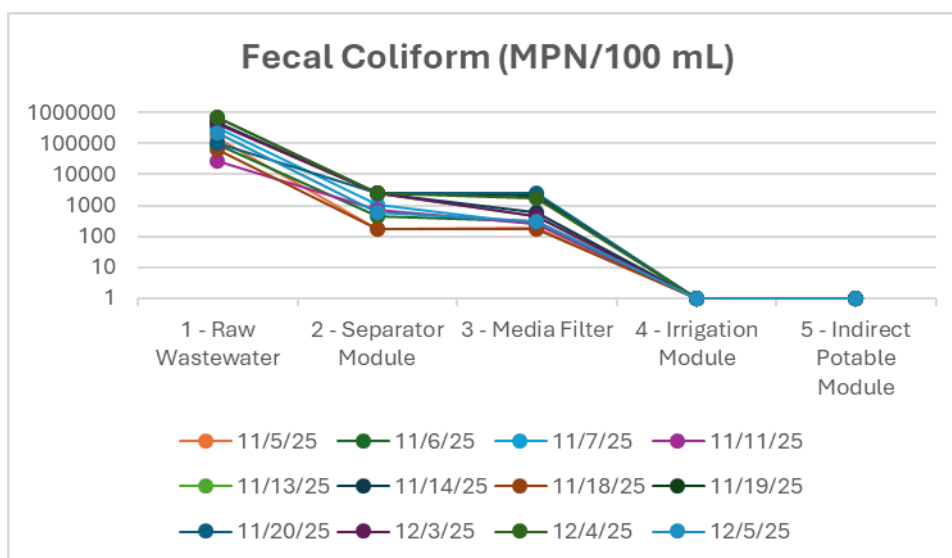


Graph 8: Nitrate as N Test Results



Graph 9: pH Test Results

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Graph 10: Fecal Coliform Test Results (Logarithmic Scale)

4.1.2 Average Results of Main Parameters

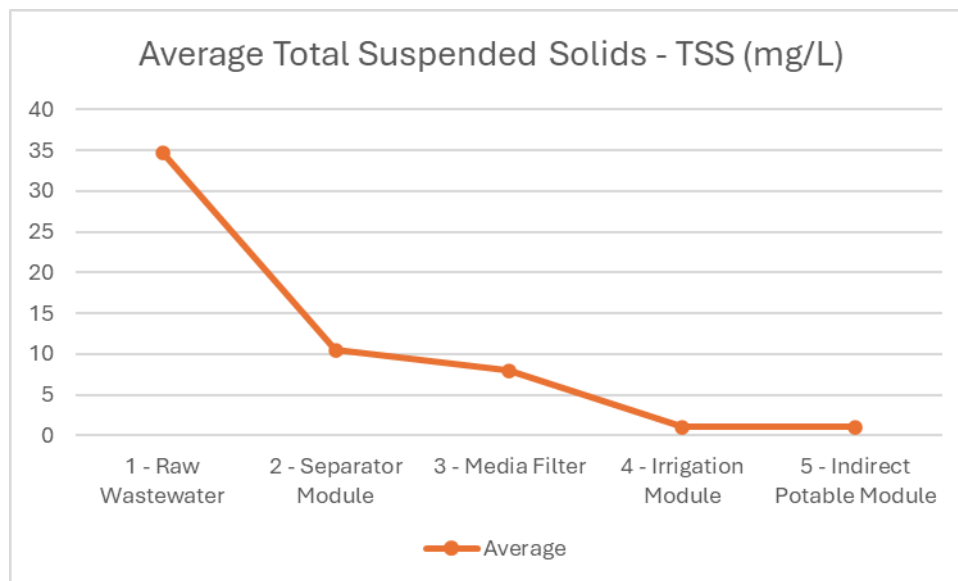
Parameter	MCL				Average Results				
	Class 3	Irrig	AWT	DW	1 - Raw Wastewater	2 - Separator Module	3 - Media Filter	4 - Irrigation Module	5 - Indirect Potable Module
Total Suspended Solids - TSS (mg/L)	20	20	5.0	-	34.7	10.5	7.93	1.0 U	1.17 U
Total Dissolved Solids - TDS (mg/L)	500	500	500	500	373	325	336	329	54.2
Total Nitrogen - TN (mg/L)	10.0	5.0	3.0	-	69	66	75	68	2.3
Total Phosphorus - TP (mg/L)	6.0	1.0	1.0	-	6.99	4.53	3.69	3.98	0.129 U
CBOD (mg/L)	20	20	5.0	-	29.7	6.63	6.10	5.05	2.28 U
TKN (mg/L)	10	5.0	3.0	-	71	68	74	67	2.3
Nitrite as N (mg/L)	-	5.0	3.0	1.0	0.12	0.13	0.14	0.14	0.10 U
Nitrate as N (mg/L)	12	5.0	3.0	10	0.36	0.49	0.67	0.51	0.10 U
pH	6.0-8.5	6.0-8.5	6.0-8.5	6.5-8.0	7.19	7.68	7.63	7.65	6.72
Fecal Coliform (MPN/100 mL)	200	0	0	0	313503	1473.1	754.6	1.0 U	1.0 U

Table 17: Average Test Results

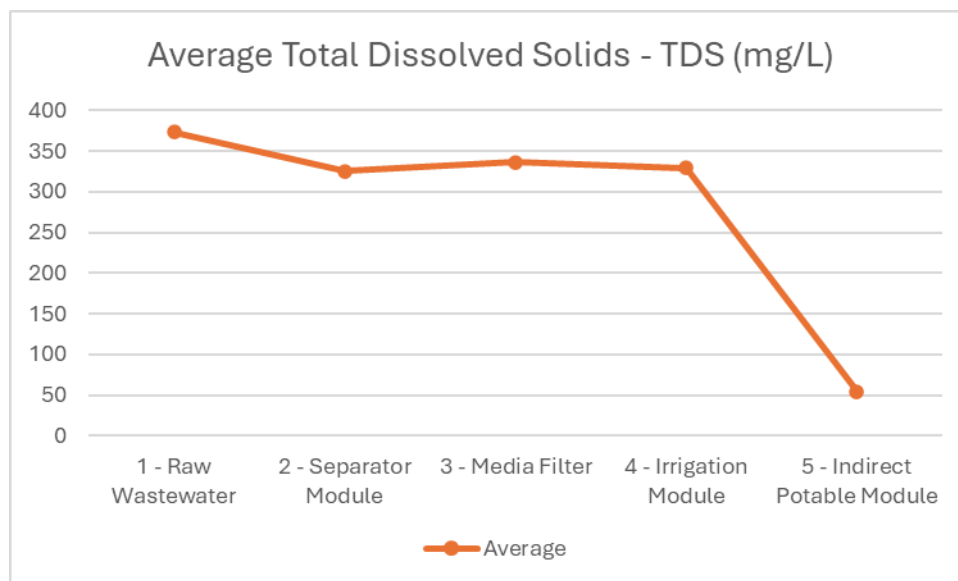
Average Percent Reduction by Stage				
Parameter	2 - Separator Module	3 - Media Filter	4 - Irrigation Module	5 - Indirect Potable Module
Total Suspended Solids - TSS (mg/L)	66.5%	21.6%	86.7% U	U
Total Dissolved Solids - TDS (mg/L)	12.7%	0.0%	1.9%	83.6%
Total Nitrogen - TN (mg/L)	0.0%	0.0%	0.0%	96.4%
Total Phosphorus - TP (mg/L)	35.6%	19.8%	0.0%	97.4% U
CBOD (mg/L)	76.0%	7.7%	18.2%	52.6% U
TKN (mg/L)	0.0%	0.0%	0.0%	96.4%
Fecal Coliform (MPN/100 mL)	99.3%	41.6%	99.7% U	U

Table 18: Average Percent Reduction by Stage

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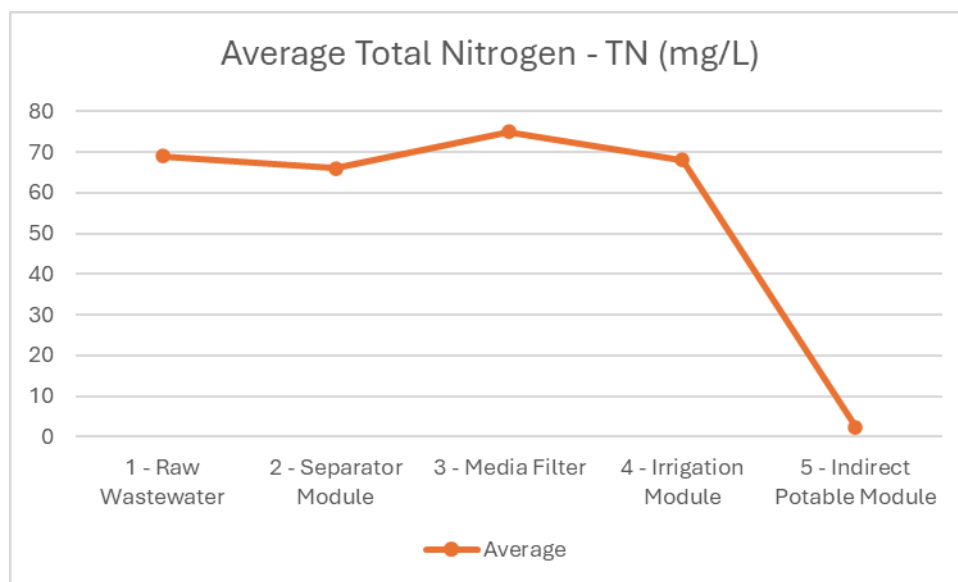


Graph 11: Average TSS Test Results

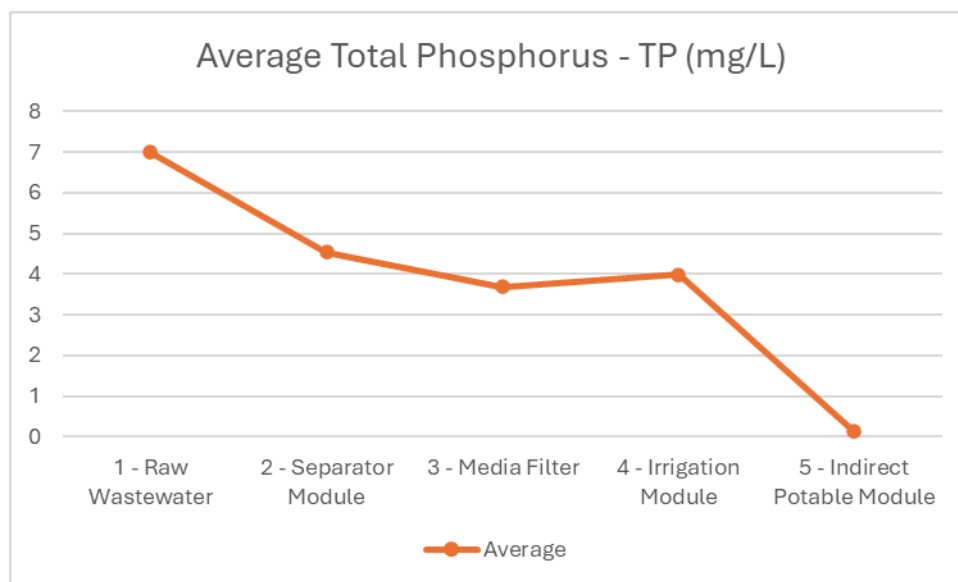


Graph 12: Average TDS Test Results

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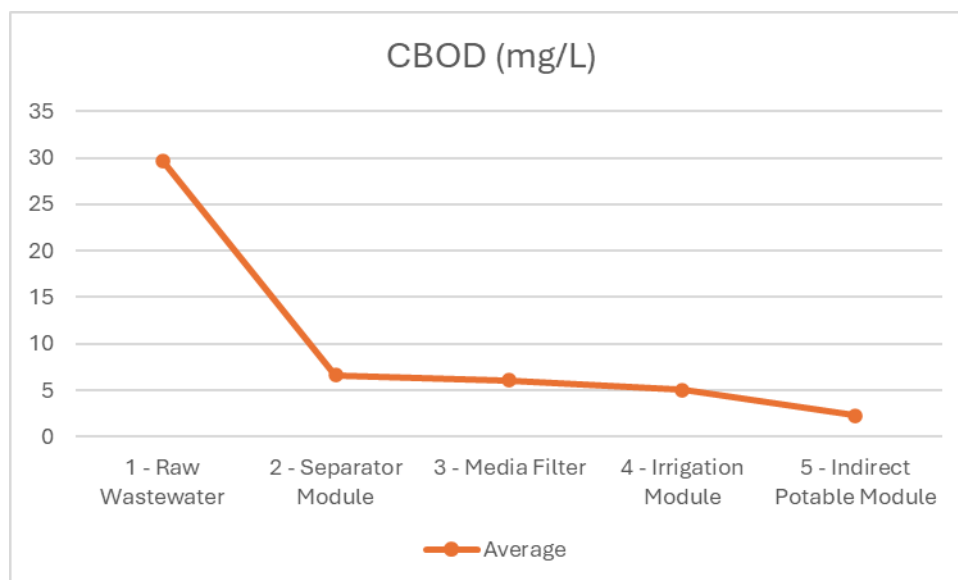


Graph 13: Average TN Test Results

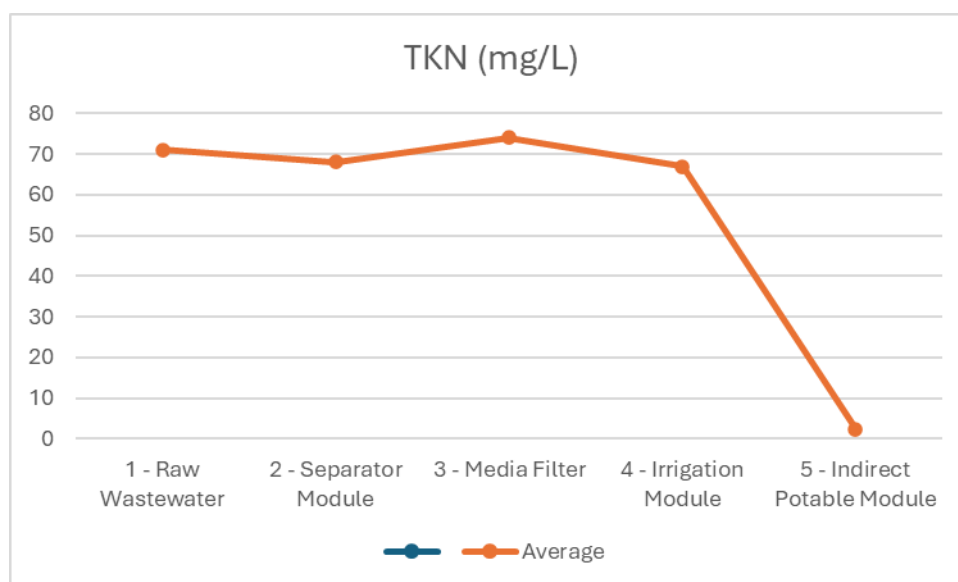


Graph 14: Average TP Test Results

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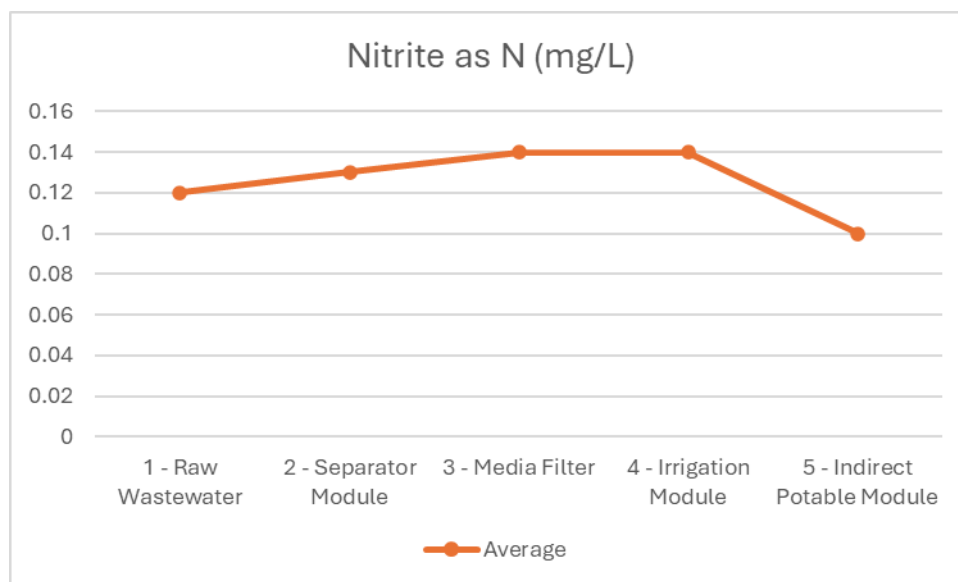


Graph 15: Average CBOD Test Results

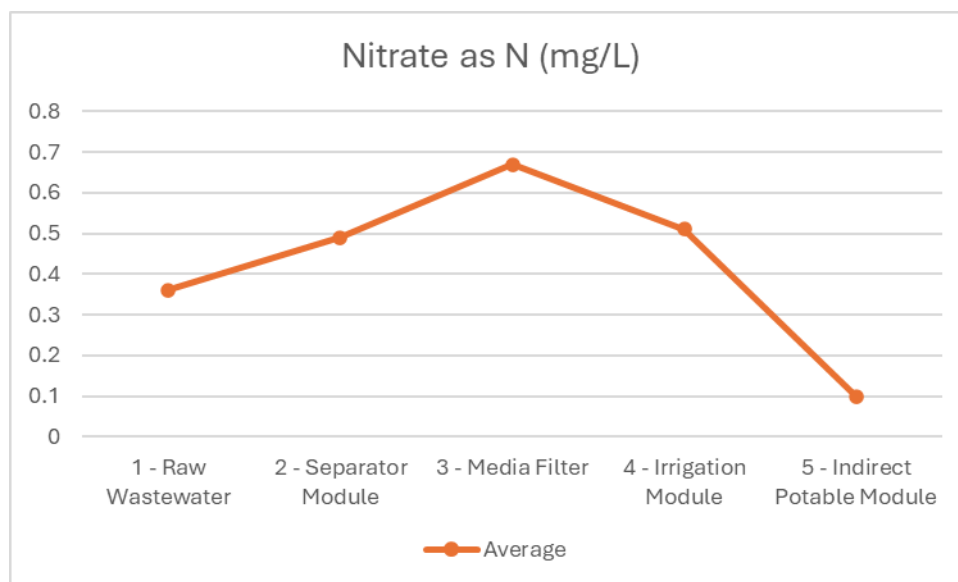


Graph 16: Average TKN Test Results

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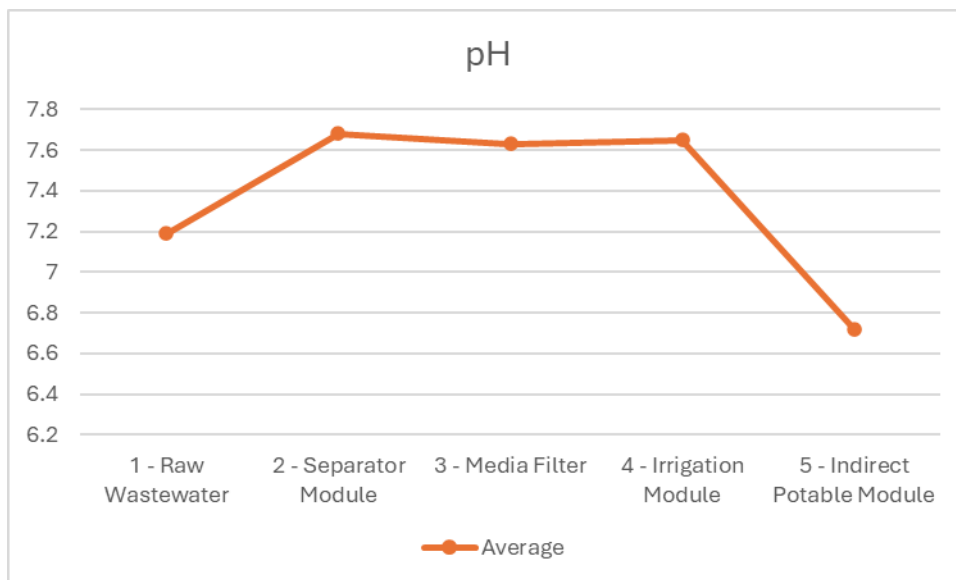


Graph 17: Average Nitrite as N Test Results

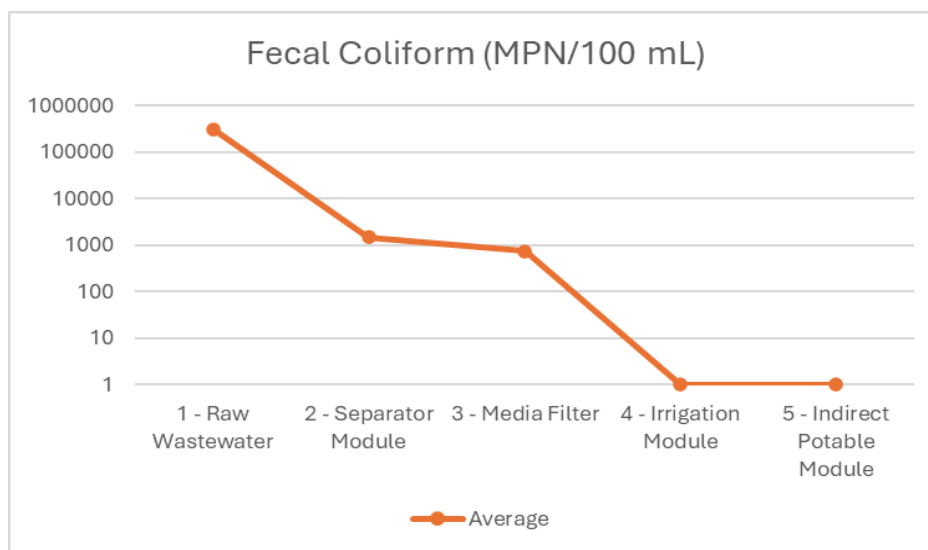


Graph 18: Average Nitrate as N Test Results

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Graph 19: Average pH Test Results



Graph 20: Average Fecal Coliform Test Results (Logarithmic Scale)

4.2 Drinking Water Standard Parameters

The RO Module exceeded the MCL requirements for all of the EPA primary and secondary drinking water standard parameters during the entire testing program, producing water that meets drinking water quality.

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4.3 PFAS Parameters

The RO Module consistently and reliably eliminated all PFAS chemicals and compounds to non-detect levels during the entire testing program.

5 Conclusion

Based on the results of this evaluation, the Eco World Water advanced wastewater treatment system (Eco System) demonstrated treatment performance consistent with, and supportive of, permitting and certification requirements for irrigation-grade reuse and Advanced Wastewater Treatment (AWT) applications in its base system configuration.

The base Eco System demonstrated effluent quality exceeding applicable EPA primary and secondary drinking water standards for the parameters evaluated and achieved non-detect levels for PFAS compounds, supporting its suitability for high-grade reuse and AWT certification.

Total Nitrogen (TN) criteria for surface water discharge in Florida vary by receiving water body and designated use, with applicable limits generally ranging from approximately 0.5 mg/L to 3.0 mg/L. While the primary test protocol focused on certification of the base Eco System configuration, supplemental testing demonstrated that, when configured with an optional post-RO polishing media filter, the Eco System is capable of reducing the TN concentration to non-detect levels, achieving TN concentrations below the most stringent applicable criteria.

Accordingly, the base Eco System configuration is suitable for irrigation-grade reuse and AWT applications. For applications requiring more stringent nutrient limits, including select surface water discharge scenarios, the Eco System may be configured with the post-RO polishing media filter to provide enhanced TN reduction capability.

In addition to meeting applicable treatment performance criteria, the demonstrated effluent quality supports potential application of the Eco System for a range of priority water management and reuse scenarios in Florida, including for deep well injection and absorption fields such as drain fields and spray fields, high-grade reclaimed water for irrigation, nutrient load reduction in sensitive watersheds, springs and aquifer protection/rejuvenation initiatives, alternative water supply development, and industrial and municipal water reuse projects.

6 Appendix A – Lab Reports

To access the lab test reports, please scan the QR Code below.

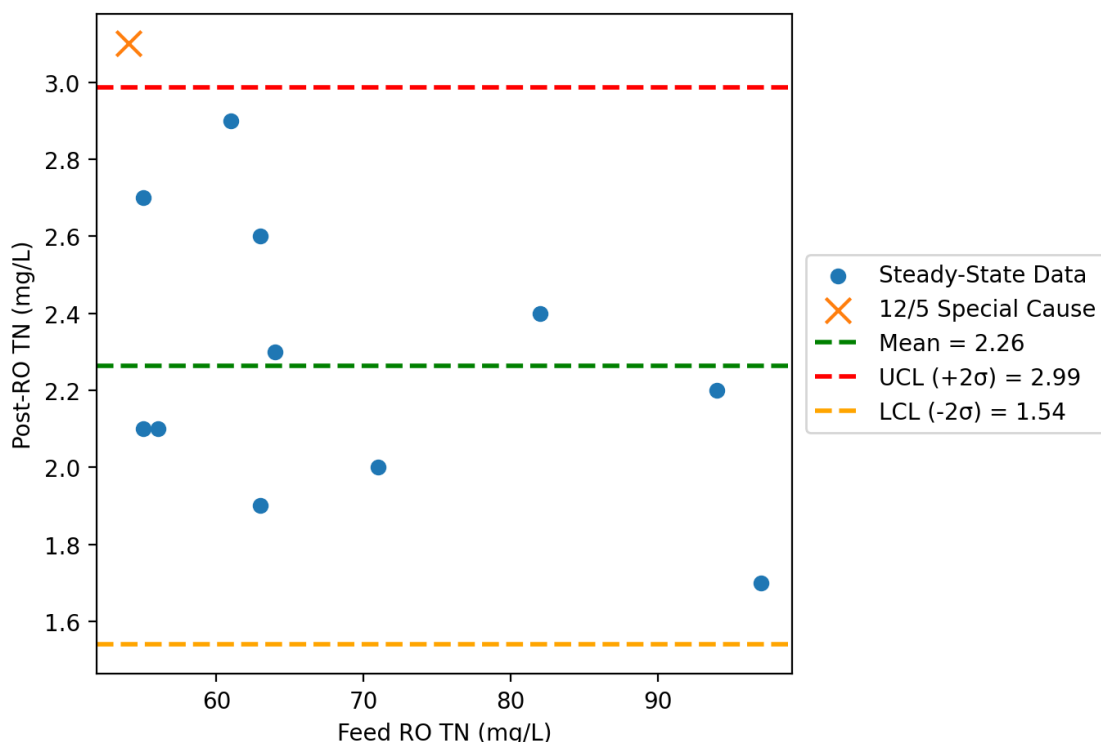


The following reports are available:

1. Eurofins Lab Test Report for November 5, 2025
2. Eurofins Lab Test Report for November 6, 2025
3. Eurofins Lab Test Report for November 7, 2025
4. Eurofins Lab Test Report for November 11, 2025
5. Eurofins Lab Test Report for November 13, 2025
6. Eurofins Lab Test Report for November 14, 2025
7. Eurofins Lab Test Report for November 18, 2025
8. Eurofins Lab Test Report for November 19, 2025
9. Eurofins Lab Test Report for November 20, 2025
10. Eurofins Lab Test Report for December 3, 2025
11. Eurofins Lab Test Report for December 4, 2025
12. Eurofins Lab Test Report for December 5, 2025
13. AEL Test Report for January 6, 2026
14. AEL Test Report for January 8, 2026

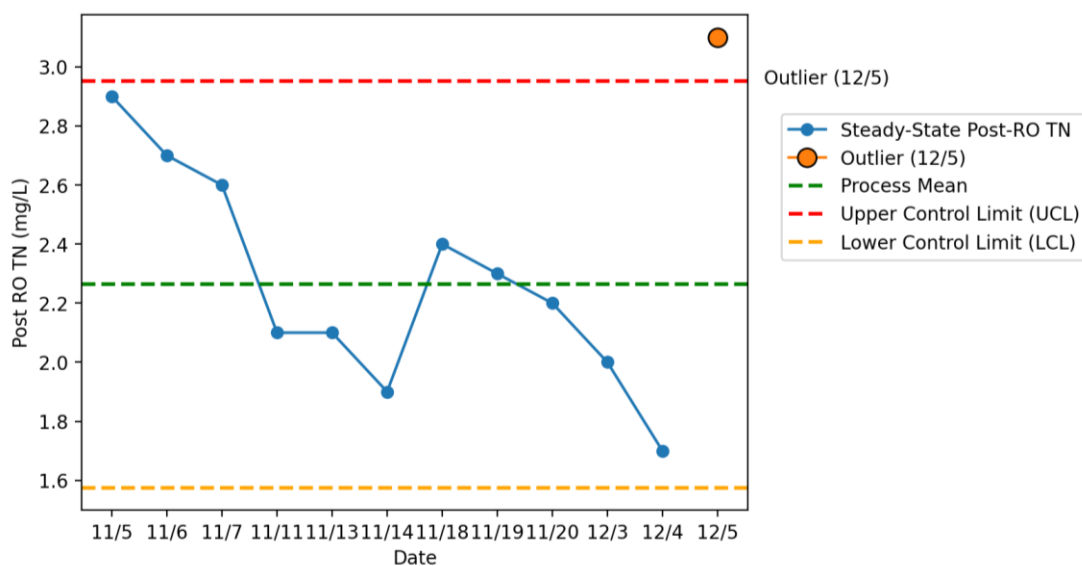
7 Appendix B – Post-RO TN Steady State Performance and Statistical Process Control Evaluation

This appendix presents graphical and statistical analyses of Post-RO Total Nitrogen (TN) performance and provides formal justification for classification of the 12/5 datapoint as a non-representative outlier. The analyses apply statistical process control (SPC) principles and engineering judgment consistent with Florida Department of Environmental Protection (FDEP) performance evaluation practices for treatment systems.



Graph 21: Feed RO TB vs. Post-RO TN with Control Limits.

Graph 21 shows the relationship between Feed RO TN and Post-RO TN. Eleven of twelve datapoints form a coherent, physically consistent population reflecting steady-state RO operation. The 12/5 datapoint (Feed = 54 mg/L; Post = 3.1 mg/L) is visually and statistically distinct from the primary dataset and is inconsistent with established system response under comparable influent conditions.



Graph 22: Post-RO TN Time Series with Statistical Control Limits.

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Graph 22 presents a control-chart-style time series using statistical control limits derived from representative, steady-state operating data (excluding the anomalous 12/5 observation). The process mean and ± 2 standard deviation control limits define the expected common-cause operating envelope consistent with FDEP performance assessment practice. Post-RO TN demonstrates stable, in-control behavior throughout the monitoring period, with a single special-cause excursion observed on 12/5.

7.1 FDEP-Aligned Statistical and Process-Based Outlier Justification

The 12/5 datapoint (Feed RO TN = 54 mg/L; Post-RO TN = 3.1 mg/L) is classified as a non-representative outlier based on both statistical and engineering criteria consistent with FDEP expectations for treatment system performance evaluation:

- The observation exceeds the Upper Control Limit (UCL), indicating special-cause variation rather than common-cause process variability under SPC methodology.
- The result is outside the statistically defined operating envelope used to characterize steady-state treatment performance.
- Comparable influent TN concentrations on adjacent monitoring dates produced materially lower Post-RO TN values, demonstrating that the 12/5 result is not representative of normal system response.
- The datapoint exhibits high statistical leverage and disproportionate influence on regression and correlation metrics, consistent with a high-influence observation in a limited dataset.
- From a treatment process perspective, the result is inconsistent with expected RO nitrogen rejection performance.

Consistent with FDEP performance evaluation practices and standard statistical process control (SPC) principles, special-cause observations are excluded from steady-state performance characterization. Accordingly, the 12/5 datapoint is excluded from correlation analyses, trend evaluations, and steady-state performance summaries. All reported performance metrics and conclusions are based on representative, in-control operating data suitable for regulatory and technical review.

8 Appendix C – EPA & Eurofins Lab Test Methods for Each Parameter

EPA Test Parameter	Eurofins Equivalent Test Parameter	Method Number and Name
Total Suspended Solids (TSS)	Total Suspended Solids	General Chemistry (SM 2540D)
Total Dissolved Solids (TDS)	Total Dissolved Solids	General Chemistry (SM 2540C)
Total Nitrogen	Total Nitrogen (EPA Total Nitrogen)	General Chemistry
Total Phosphorus	Total Phosphorus as P	General Chemistry (EPA 365.4)
CBOD5	Carbonaceous Biochemical Oxygen Demand	General Chemistry (SM5210B CBOD)
Nitrites	Nitrite as N	EPA 300.0 - Anions, Ion Chromatography
Nitrates	Nitrate as N	EPA 300.0 - Anions, Ion Chromatography
pH	pH	General Chemistry (SM 4500 H+B)
Fecal Coliform	Coliform, Fecal	IDEXX Colilert-18 - Fecal Coliforms

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EPA Test Parameter	Eurofins Equivalent Test Parameter	Method Number and Name
Acrylamide	N/A	N/A
Alachlor	Alachlor	EPA 525.2 - Semivolatile Organic Compounds
Alpha/Photon Emitters	Gross Alpha	EPA 900.0 - Gross Alpha and Gross Beta Radioactivity
Antimony	Antimony	EPA 200.8 - Metals (ICP/MS) - Total Recoverable
Arsenic	Arsenic	EPA 200.8 - Metals (ICP/MS) - Total Recoverable
Asbestos (fibers > 10 micrometers)	Asbestos	EPA 100.2
Atrazine	Atrazine	EPA 525.2 - Semivolatile Organic Compounds
Barium	Barium	EPA 200.8 - Metals (ICP/MS) - Total Recoverable
Benzene	Benzene	EPA-DW 524.2 Volatile Organic Compounds
Benzo(a)pyrene (PAHs)	Benzo[a]pyrene	EPA 525.2 - Semivolatile Organic Compounds
Beryllium	Beryllium	EPA 200.8 - Metals (ICP/MS) - Total Recoverable
Beta Photon Emitters	Gross beta	EPA 900.0 - Gross Alpha and Gross Beta Radioactivity
Bromate	N/A	N/A
Cadmium	Cadmium	EPA 200.8 - Metals (ICP/MS) - Total Recoverable
Carbofuran	Carbofuran	Carbamate Pesticides (HPLC)
Carbon Tetrachloride	Carbon Tetrachloride	EPA-DW 524.2 Volatile Organic Compounds
Chloramines	N/A	N/A
Chlordane	Chlordane	EPA 505 - Organochlorine Pesticides/PCBs (GC)
Chlorine (Cl ₂)	N/A	N/A
Chlorine Dioxide (ClO ₂)	N/A	N/A
Chlorite	N/A	N/A
Chlorobenzene	Chlorobenzene	EPA-DW 524.2 Volatile Organic Compounds
Chromium (total)	Chromium	EPA 200.8 - Metals (ICP/MS) - Total Recoverable
Copper	Copper	EPA 200.8 - Metals (ICP/MS) - Total Recoverable

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EPA Test Parameter	Eurofins Equivalent Test Parameter	Method Number and Name
Cryptosporidium	Cryptosporidium	Viruses
Cyanide	Cyanide, Total	General Chemistry (SM 4500 CN E)
2,4-D	2,4-D	EPA-DW 515.4 - Herbicides (GC)
Dalapon	Dalapon	EPA-DW 515.4 - Herbicides (GC)
1,2-Dibromo-3-chloropropane (DBCP)	1,2-Dibromo-3-Chloropropane	EPA-DW2 504.1 - EDB, DBCP and 1,2,3-TCP (GC)
o-Dichlorobenzene	o-Dichlorobenzene	EPA-DW 524.2 Volatile Organic Compounds
1,2-Dichloroethane	1,2-Dichloroethane	EPA-DW 524.2 Volatile Organic Compounds
1,1-Dichloroethylene	1,1-Dichloroethylene	EPA-DW 524.2 Volatile Organic Compounds
cis-1,2-Dichloroethylene	cis-1,2-Dichloroethylene	EPA-DW 524.2 Volatile Organic Compounds
trans-1,2-Dichloroethylene	1,2-trans-Dichloroethylene	EPA-DW 524.2 Volatile Organic Compounds
Dichloromethane	Dichloromethane	EPA-DW 524.2 Volatile Organic Compounds
1,2-Dichloropropane	1,2-Dichloropropane	EPA-DW 524.2 Volatile Organic Compounds
Di(2-ethylhexyl)adipate	Bis(2-ethylhexyl) adipate	EPA 525.2 - Semivolatile Organic Compounds (GC/MS)
Di(2-ethylhexyl)phthalate	Bis(2-ethylhexyl) phthalate	EPA 525.2 - Semivolatile Organic Compounds (GC/MS)
Dinoseb	Dinoseb	EPA-DW 515.4 - Herbicides (GC)
Dioxin (2,3,7,8-TCDD)	2,3,7,8-TCDD	EPA 1613B - Tetra Chlorinated Dioxin in Drinking Water
Diquat	Diquat	EPA 549.2 - Diquat and Paraquat (HPLC)
Endothall	Endothall	EPA-DW 548.1 - Endothall (GC/MS)
Endrin	Endrin	EPA 505 - Organochlorine Pesticides/PCBs (GC)
Epichlorohydrin	Epichlorohydrin	EPA-DW 524.2 Volatile Organic Compounds - DL
Ethylbenzene	Ethylbenzene	EPA-DW 524.2 Volatile Organic Compounds
E. Coli	Escherichia coli	SM 9223 B-2016 - Coliforms, Total, and E.Coli (Colilert 18 - Quanti Tray)
Fecal Coliform	Coliform, Fecal	IDEXX Colilert-18 - Fecal Coliforms
Fluoride	Fluoride	EPA 300.0 - Anions, Ion Chromatography
Giardia Lamblia	Giardia Lamblia	Viruses
Glyphosate	Glyphosate	EPA 547 - Glyphosate (DAI HPLC)

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EPA Test Parameter	Eurofins Equivalent Test Parameter	Method Number and Name
Haloacetic Acids (HAA5)	Bromoacetic Acid, Chloroacetic Acid, Dibromoacetic Acid, Dichloroacetic Acid, Trichloroacetic Acid	Haloacetic Acids (HAAs) (GC)
Heptachlor	Heptachlor	EPA 505 - Organochlorine Pesticides/PCBs (GC)
Heptachlor Epoxide	Heptachlor epoxide	EPA 505 - Organochlorine Pesticides/PCBs (GC)
Heterotrophic Plate Count (HPC)	Heterotrophic Plate Count	SM 9215B - Heterotrophic Plate Count
Hexachlorobenzene	Hexachlorobenzene	EPA 505 - Organochlorine Pesticides/PCBs (GC)
Hexachlorocyclopentadiene	Hexachlorocyclopentadiene	EPA 505 - Organochlorine Pesticides/PCBs (GC)
Lead	Lead	EPA 200.8 - Metals (ICP/MS) - Total Recoverable
Legionella	Legionella	IDEXX Legiolert - Legiolert-Elite
Lindane	gamma-BHC (Lindane)	EPA 505 - Organochlorine Pesticides/PCBs (GC)
Mercury (inorganic)	Mercury	EPA 245.1 - Mercury (CVAA)
Methoxychlor	Methoxychlor	EPA 505 - Organochlorine Pesticides/PCBs (GC)
Nitrate	Nitrate as N	EPA 300.0 - Anions, Ion Chromatography
Nitrite	Nitrite as N	EPA 300.0 - Anions, Ion Chromatography
Oxamyl (Vydate)	Oxamyl	EPA 531.1 - Carbamate Pesticides (HPLC)
Pentachlorophenol	Pentachlorophenol	EPA-DW 515.4 - Herbicides (GC)
Picloram	Picloram	EPA-DW 515.4 - Herbicides (GC)
Polychlorinated Biphenyls (PCBs)	Polychlorinated biphenyls, Total	EPA 505 - Organochlorine Pesticides/PCBs (GC)
Radium 226/Radium 228 (Combined)	Combined Radium 226 + 228	TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228
Selenium	Selenium	EPA 200.8 - Metals (ICP/MS) - Total Recoverable
Simazine	Simazine	EPA 525.2 - Semivolatile Organic Compounds
Styrene	Styrene	EPA-DW 524.2 Volatile Organic Compounds
Tetrachloroethylene	Ethylene, tetrachloro	EPA-DW 524.2 Volatile Organic Compounds
Thallium	Thallium	EPA 200.8 - Metals (ICP/MS) - Total Recoverable
Toluene	Toluene	EPA-DW 524.2 Volatile Organic Compounds
Total Coliforms	Coliform, Total	SM 9223 B-2016 - Coliforms, Total, and E.Coli (Colilert 18 - Quanti Tray)
Total Trihalomethanes (TTHMs)	Trihalomethanes, Total	EPA-DW 524.2 Volatile Organic

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EPA Test Parameter	Eurofins Equivalent Test Parameter	Method Number and Name
		Compounds
Toxaphene	Toxaphene	EPA 505 - Organochlorine Pesticides/PCBs (GC)
2,4,5-TP (Silvex)	2,4,5-TP (Silvex)	EPA-DW 515.4 - Herbicides (GC)
1,2,4-Trichlorobenzene	1,2,4-Trichlorobenzene	EPA-DW 524.2 Volatile Organic Compounds
1,1,1-Trichloroethane	1,1,1-Trichloroethane	EPA-DW 524.2 Volatile Organic Compounds
1,1,2-Trichloroethane	1,1,2-Trichloroethane	EPA-DW 524.2 Volatile Organic Compounds
Trichloroethylene	Ethene, trichloro-	EPA-DW 524.2 Volatile Organic Compounds
Turbidity	Turbidity	General Chemistry (EPA 180.1)
Uranium	Uranium	EPA 200.8 - Metals (ICP/MS)
Vinyl Chloride	Vinyl chloride	EPA-DW 524.2 Volatile Organic Compounds
Xylenes (total)	Xylenes, Total	EPA-DW 524.2 Volatile Organic Compounds
Aluminum	Aluminum	EPA 200.8 - Metals (ICP/MS) - Total Recoverable
Chloride	Chloride	EPA 300.0 - Anions, Ion Chromatography
Color	Color	General Chemistry (SM 2120B)
Copper	Copper	EPA 200.8 - Metals (ICP/MS) - Total Recoverable
Corrosivity	Langelier Index	General Chemistry (SM 2330B)
Fluoride	Fluoride	EPA 300.0 - Anions, Ion Chromatography
Foaming Agents	Tested with other chemicals present in report	EPA-DW 524.2 Volatile Organic Compounds
Iron	Iron	EPA 200.7 - Metals (ICP) - Total Recoverable
Manganese	Manganese	EPA 200.7 - Metals (ICP) - Total Recoverable
Odor	Odor	General Chemistry (SM 2150B)
pH	pH	General Chemistry (SM 4500 H+B)
Silver	Silver	EPA 200.8 - Metals (ICP/MS) - Total Recoverable
Sulfate	Sulfate	EPA 300.0 - Anions, Ion Chromatography
Total Dissolved Solids	Total Dissolved Solids	General Chemistry (SM 2540C)
Zinc	Zinc	EPA 200.8 - Metals (ICP/MS) - Total Recoverable
Nickel	Nickel	EPA 200.8 - Metals (ICP/MS) - Total Recoverable

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EPA Test Parameter	Eurofins Equivalent Test Parameter	Method Number and Name
NO3+NO2 (as N)	Nitrate Nitrite as N	EPA 300.0 - Anions, Ion Chromatography
Total Aroclors	Combination of other PCBs tested throughout Eurofins report	EPA 505 - Organochlorine Pesticides/PCBs (GC)
1,2-Dibromoethane (EDB)	1,2-Dibromoethane (EDB)	EPA-DW2 504.1 - EDB, DBCP and 1,2,3-TCP (GC) PQL
Sodium	Sodium	EPA 200.7 - Metals (ICP) - Total Recoverable
TOC	Total Organic Carbon	General Chemistry (SM 5310C)
TKN	Nitrogen, Kjeldahl	General Chemistry (EPA 351.2)
Acid Base Extraction	This is a sample preparation technique	EPA 525.2 - Semivolatile Organic Compounds (GC/MS)
Perfluorooctanoic Acid (PFOA)	Perfluorooctanoic acid (PFOA)	EPA 537.1 V2 - EPA 537.1, Ver 2.0 Mar 2020
Perfluorooctane Sulfonate (PFOS)	Perfluorooctanesulfonic acid (PFOS)	EPA 537.1 V2 - EPA 537.1, Ver 2.0 Mar 2020
Perfluorohexane Sulfonic Acid (PFHxS)	Perfluorohexanesulfonic acid (PFHxS)	EPA 537.1 V2 - EPA 537.1, Ver 2.0 Mar 2020
Perfluorononanoic Acid (PFNA)	Perfluorononanoic acid (PFNA)	EPA 537.1 V2 - EPA 537.1, Ver 2.0 Mar 2020
Perfluorodecanoic Acid (PFDA)	Perfluorodecanoic acid (PFDA)	EPA 537.1 V2 - EPA 537.1, Ver 2.0 Mar 2020
Perfluorobutane Sulfonic Acid (PFBS)	Perfluorobutanesulfonic acid (PFBS)	EPA 537.1 V2 - EPA 537.1, Ver 2.0 Mar 2020
Perfluoroundecanoic Acid (PFUnA)	Perfluoroundecanoic acid (PFUnA)	EPA 537.1 V2 - EPA 537.1, Ver 2.0 Mar 2020
Perfluorododecanoic Acid (PFDoA)	Perfluorododecanoic acid (PFDoA)	EPA 537.1 V2 - EPA 537.1, Ver 2.0 Mar 2020
Perfluorohexanoic Acid (PFHxA)	Perfluorohexanoic acid (PFHxA)	EPA 537.1 V2 - EPA 537.1, Ver 2.0 Mar 2020
Perfluorobutanoic Acid (PFBA)	Perfluorobutanoic acid (PFBA)	EPA 533 - EPA 533 Nov 2019
Perfluoropentanoic Acid (PFPeA)	Perfluoropentanoic acid (PFPeA)	EPA 533 - EPA 533 Nov 2019

Table 19: EPA & Eurofins Lab Test Methods for Each Parameter

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[END OF REPORT]

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