

MODIFICATION

AUTHORIZATION TO DISCHARGE UNDER THE  
RHODE ISLAND POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provisions of Chapter 46-12 of the Rhode Island General Laws, as amended, RIPDES Permit No. RI0100293 issued to the City of Newport and Newport Water Services, LLC (previously know as United Water Environmental Services, Inc.) for the Newport Water Pollution Control Plant (WPCP) located at 250 Connell Highway Newport, Rhode Island and its associated Washington Street Combined Sewer Overflow (CSO) Facility, and Wellington Avenue CSO Facility on April 24, 2015, shall be modified as follows:

The Total Residual Chlorine (TRC) limits in Part I.A.2 of the permit shall be deleted and replaced with the Ultraviolet (UV) limits in Part I.A.2 found in *Attachment 1* of this modification.

Part I.A.9.g found in *Attachment 2* of this modification shall be incorporated into the Permit.

The Biomonitoring Requirements and Interpretation of Results requirements from Part I.C.1 and Part I.C.4 of the Permit shall be deleted and replaced with Part I.C.1 and Part I.C.4 found in *Attachment 2* of this modification.

The remaining effluent limitations, monitoring requirements and other conditions in the original permit are unchanged and in effect.

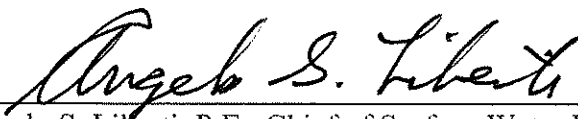
This modification shall become effective on November 1, 2018.

This permit and the authorization to discharge expire at midnight, May 31, 2020.

This change modifies the permit issued on April 24, 2015.

This modification consists of three (3) pages.

Signed this 10<sup>th</sup> day of October 2018.



Angelo S. Liberti, P.E., Chief of Surface Water Protection  
Office of Water Resources  
Rhode Island Department of Environmental Management  
Providence, Rhode Island

ATTACHMENT I

PART I

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

2. During the period beginning on the effective date and lasting through permit expiration, the permittee is authorized to discharge from outfall serial number 001A (Newport WPCP effluent at the end of the UV disinfection). Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations					Monitoring Requirement	
	Quantity - lbs./day		Concentration - specify units			Measurement Frequency	Sample Type
	Average Monthly	Maximum Daily	Average Monthly *(Minimum)	Average Weekly *(Average)	Maximum Daily *(Maximum)		
UV Intensity <sup>4</sup>			(--- mw/cm <sup>2</sup> )	(--- mw/cm <sup>2</sup> )	(--- mw/cm <sup>2</sup> )	Continuous	Recorder
UV Transmittance <sup>4</sup>			(--- %)	(--- %)	(--- %)	Continuous	Recorder
UV Dosage <sup>4</sup>			(---mw-s/cm <sup>2</sup> ) <sup>5</sup>	(---mw-s/cm <sup>2</sup> ) <sup>5</sup>	(---mw-s/cm <sup>2</sup> ) <sup>5</sup>	Continuous	Recorder

<sup>4</sup>UV Intensity, Transmittance, and Dosage readings shall be recorded continuously to provide a record that proper disinfection was achieved at all times.

<sup>5</sup>UV Dosage is defined as the UV Intensity (mW/ cm<sup>2</sup>) multiplied by the Exposure Time (s).

---Signifies a parameter which must be monitored and data must be reported; no limit has been established at this time.

\*Values in parentheses ( ) are to be reported as Minimum/Average/Maximum for the reporting period rather than Average Monthly/Average Weekly/Maximum Daily.

Sampling for Settleable solids, pH, UV Intensity, UV Transmittance, and UV Dosage shall be performed Sunday – Saturday.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location: Outfall 001A (Newport WPCP effluent after UV disinfection)

*ATTACHMENT 2*

PART I

**A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS**

9. g. This permit authorizes the use of chlorine disinfection only for emergency purposes in accordance with the Bypass and Upset provisions from part II of the permit. Any emergency uses of chlorination shall be in accordance with the facility's Operation and Maintenance Manual and shall be reported on the cover letter to the DMRs. The chlorination usage reporting must include the reason why chlorine was used, the duration of its use, and sampling/analytical date.

PART I

**C. BIOMONITORING REQUIREMENTS AND INTERPRETATION OF RESULTS**

1. General

Beginning on the effective date of the permit, the permittee shall perform four (4) acute toxicity tests per year on samples collected from discharge Outfall 001A (Newport WPCP effluent after UV disinfection). The permittee shall conduct the tests during dry weather periods (no rain forty-eight (48) hours prior to or during sampling unless approved by DEM) according to the following test frequency and protocols. Acute data shall be reported as outlined in Part I.C.9. The State may require additional screening, range finding, or definitive acute or chronic bioassays as deemed necessary based on the results of the initial bioassays required herein. Indications of toxicity could result in requiring a Toxicity Reduction Evaluation (TRE) to investigate the causes and to identify corrective actions necessary to eliminate or reduce toxicity to an acceptable level.

PART I

**C. BIOMONITORING REQUIREMENTS AND INTERPRETATION OF RESULTS**

4. Sample Collection

For each sampling event a twenty-four (24) hour flow proportioned composite final effluent sample from the end of the disinfection process after UV disinfection shall be collected during a dry weather period (no rain forty-eight (48) hours prior to or during sampling unless approved by DEM). The composite sample for Cyanide shall be obtained by taking three grab samples, spaced over one (1) day with a minimum of three hours between grabs. The three (3) grab samples shall be preserved immediately upon collection. All three (3) samples shall be composited, then analyzed for available Cyanide. Samples shall be kept cool (at 4°C) and testing shall begin within twenty-four (24) hours after the last sample of the composite is collected. In the laboratory, the twenty-four (24) hour flow proportioned composite final effluent sample shall be split into two (2) subsamples, after thorough mixing, for the following:

- A: Chemical analysis
- B: Acute toxicity testing

All samples held overnight shall be refrigerated at 4°C. Grab samples must be used for pH and temperature.