



COMMONWEALTH of VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY

Permit No. VA0024988
Effective Date: December 21, 2012
Expiration Date: December 20, 2017

AUTHORIZATION TO DISCHARGE UNDER THE
VIRGINIA POLLUTANT DISCHARGE ELIMINATION SYSTEM
AND THE VIRGINIA STATE WATER CONTROL LAW

In compliance with the provisions of the Clean Water Act as amended and pursuant to the State Water Control Law and regulations adopted pursuant thereto, the following owner is authorized to discharge in accordance with the information submitted with the permit application, and with this permit cover page, Part I – Effluent Limitations and Monitoring Requirements, and Part II – Conditions Applicable To All VPDES Permits, as set forth herein.

Owner Name: Upper Occoquan Service Authority
Facility Name: Upper Occoquan Service Authority
County: Fairfax
Facility Location: 14631 Compton Rd, Centreville, VA 20121-2506

The owner is authorized to discharge to the following receiving stream:

Stream Name: Bull Run, UT
River Basin: Potomac
River Subbasin: Potomac
Section: 7a
Class: III
Special Standards: g

A handwritten signature in black ink, appearing to read "Thomas A. Faha", written over a horizontal line.

Thomas A. Faha
Director, Northern Regional Office
Department of Environmental Quality

December 21, 2012
Date

A. Effluent Limitations and Monitoring Requirements

1. Outfall 001 – 54 MGD Facility

- There shall be no discharge of floating solids or visible foam in other than trace amounts.
- This facility has Total Nitrogen and Total Phosphorus calendar year load limits associated with this outfall included in the current Registration List under registration number VAN010019, enforceable under the General VPDES Watershed Permit Regulation for Total Nitrogen and Total Phosphorus Dischargers and Nutrient Trading in the Chesapeake Watershed in Virginia.
- During the period beginning with the permit's effective date and lasting until the expiration date or the issuance of the CTO for the 64 MGD facility, whichever occurs first, the permittee is authorized to discharge from Outfall Number 001. Such discharges shall be limited and monitored by the permittee as specified below.

Parameter	Discharge Limitations				Monitoring Requirement			
	Monthly Average ⁽¹⁾		Weekly Average ⁽¹⁾		Minimum	Maximum ⁽¹⁾	Frequency ⁽⁵⁾	Sample Type
Flow ⁽²⁾ (MGD)	NL		NA		NA	NL	Continuous	TIRE
pH	NA		NA		6.0 S.U.	9.0 S.U.	1/D	Grab
Chemical Oxygen Demand, COD	10 mg/L	2000 kg/day	25 mg/L	5100 kg/day	NA	NA	5D/W	24H-C
Total Suspended Solids, TSS	1.0 mg/L	200 kg/day	2.5 mg/L	510 kg/day	NA	NA	5D/W	24H-C
Total Kjeldahl Nitrogen, TKN	1.0 mg/L		2.5 mg/L		NA	NA	5D/W	24H-C
Methylene Blue Activated Substances, MBAS	0.10 mg/L		0.25 mg/L		NA	NA	1/M	24H-C
Dissolved Oxygen	NA		NA		5.0 mg/L	NA	1/D	Grab
Turbidity (immediately prior to Chlorination)	0.50 NTU		NA		NA	NA	1/D	3G/24H
Total Residual Chlorine (after dechlorination)	0.008 mg/L		0.010 mg/L		NA	NA	1/D	Grab
<i>E. coli</i> (Geometric Mean) ⁽⁴⁾	<2 n/100 mLs		NA		NA	NA	1/D	Grab
Total Phosphorus	0.10 mg/L		0.25 mg/L		NA	NA	5D/W	24H-C
Chronic Toxicity – <i>C. dubia</i> (TU) ⁽³⁾	NA		NA		NA	NL	1/YR	24H-C
Chronic Toxicity – <i>P. promelas</i> (TU) ⁽³⁾	NA		NA		NA	NL	1/YR	24H-C

⁽¹⁾ See Part I.B.

⁽²⁾ The design flow is 54 MGD.

⁽³⁾ See Part I.C. for toxicity monitoring requirements

⁽⁴⁾ *E. coli* samples shall be collected just prior to dechlorination and after chlorine contact. The samples shall be collected in containers prepared with dechlorinating agent.

⁽⁵⁾ See Part I.F.13 for the Effluent Monitoring Reduction special condition.

MGD = Million gallons per day.

NA = Not applicable.

NL = No limit; monitor and report.

S.U. = Standard units.

TIRE = Totalizing, indicating and recording equipment.

NTU = Nephelometric Turbidity Units

1/D = Once every day.

3G/24H = Three grabs per 24 hr period.

5D/W = Five days every week.

1/M = Once every month.

1/YR = Once every year.

24H-C = A flow proportional composite sample collected manually or automatically, and discretely or continuously, for the entire discharge of the monitored 24-hour period. Where discrete sampling is employed, the permittee shall collect a minimum of twenty-four (24) aliquots for compositing. Discrete sampling may be flow proportioned either by varying the time interval between each aliquot or the volume of each aliquot. Time composite samples consisting of a minimum of twenty-four (24) grab sample obtained at hourly or smaller intervals may be collected where the permittee demonstrates that the discharge flow rate (gallons per minute) does not vary by 10% or more during the monitored discharge.

3G/24H = Twenty-four Hour Composite – Consisting of three (3) grab samples collected at 8-hour intervals.

Grab = An individual sample collected over a period of time not to exceed 15-minutes.