



John R. Kasich, Governor
Mary Taylor, Lt. Governor
Craig W. Butler, Director

March 2, 2017

Mr. Michael A. Frommer, P.E., Executive Director
Delaware County Regional Sewer District
PO Box 8006
Delaware, OH 43015-8006

Re: Preliminary Winter Effluent Limitations to Little Walnut Creek for the Delaware County – Northstar Water Reclamation Facility

Dear Mr. Frommer:

Ohio EPA Central District Office, Division of Surface Water (CDO/DSW) has reviewed your letter dated January 21, 2017 requesting seasonal effluent limitations for the existing Delaware County - Northstar water reclamation facility (WRF). Based upon the information presented in your January 21st letter, along with the information provided in subsequent e-mails with Delaware County staff, I offer the following response:

Delaware County is proposing to have a seasonal, direct discharge from the existing Northstar WRF to Little Walnut Creek, a tributary to Hoover Reservoir, at approximately river mile (RM) 7.20. The Northstar facility was approved by Ohio EPA in March 2006 under Ohio EPA permit to install (PTI) No. 01-11670 as a land application-based treatment system with an average daily design flow of 0.400 MGD, a maximum daily flow of 1.3 MGD and a peak hourly flow of 1.3 MGD.

Based upon current water quality information and those requirements contained in the Ohio Antidegradation rule found in Ohio Administrative Code (OAC) Section 3745-1-05, CDO/DSW has developed preliminary effluent limitations for the proposed seasonal discharge. These preliminary effluent limitations are consistent with the Ohio's Antidegradation requirements and are considered protective of Ohio's current aquatic life-based water quality standards (WQS), as well as the downstream uses of the Little Walnut Creek and Hoover Reservoir. The table contained in Attachment 1 to this letter contains those preliminary effluent limitations.

Please note that an outfall sign would need to be installed at the outfall location.

Additionally, the proposed discharge from treatment facility meets the applicability requirements of Ohio's Antidegradation Rule found in OAC 3745-1-05(B). While the rule does not require a public hearing in this situation, the Agency's receipt of a NPDES permit application, must be public noticed for 30 days. Given that application would involve a seasonal discharge from a land application system, such an application would meet an exclusion from portions of the application and review requirements within the antidegradation rule as outlined in OAC 3745-1-05(D)(1)(e).

Michael A. Frommer
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Should you have any questions, please feel free to contact me at (614) 728-3849.

Sincerely,



John R. Owen, P.E., BCEE
Environmental Specialist II
Division of Surface Water
Central District Office

c: Tiffany Maag, P.E., Assist. Director, Delaware County Sanitary Engineers Office
Mike Gallaway, Manager, CDO/DSW
Ashley Ward, NPDES Supervisor, DSW-Central Office

JO/cf MFrommer-NorthstarWRFLimits

ATTACHMENT 1

PRELIMINARY SEASONAL DISCHARGE LIMITATIONS FOR THE NORTHSTAR WATER RECLAMATION FACILITY					
Pollutant		Concentrations		Loadings (kg/day)*	
		30-Day Average	7-Day Average	30-Day Average	7-Day Average
Total Suspended Solids	(mg/l)	12	18	18.2	27.3
Ammonia-Nitrogen Winter	(mg/l)	3.0	4.5	4.54	6.81
CBOD ₅	(mg/l)	10	15	15.1	22.7
Nitrogen, Total Inorganic	(mg/l)	---	10 (max)	---	15.1
E. Coli	(#/100 ml)	126	284	---	---
Oil & Grease, Total	(mg/l)	---	10 (max)	---	---
pH	(s.u.)	6.5 to 9.0		6.5 to 9.0	
Phosphorus, Total	(mg/l)	1.0	1.5	1.51	2.27
Dissolved Oxygen	(mg/l)	6.0 (min)	---	---	---

* Based on a ADDF of 0.400 MGD