

NPDES Permit No. IL0022586

Notice No. GY:20042101.bdf

Public Notice Beginning Date: **January 28, 2021**

Public Notice Ending Date: **March 1, 2021**

National Pollutant Discharge Elimination System (NPDES)  
Permit Program

**PUBLIC NOTICE/FACT SHEET**  
of  
**Draft Reissued NPDES Permit to Discharge into Waters of the State**

Public Notice/Fact Sheet Issued By:

Illinois EPA  
Division of Water Pollution Control  
Permit Section  
1021 North Grand Avenue East  
Post Office Box 19276  
Springfield, Illinois 62794-9276  
217/782-0610

Name and Address of Permittee:

Flagg Creek Water Reclamation District  
7001 Frontage Road  
Burr Ridge, Illinois 60527-5788

Name and Address of Facility:

Flagg Creek WRD - McElwain STP  
6975 Commonwealth Avenue  
Burr Ridge, Illinois  
(Cook County)

The Illinois Environmental Protection Agency (IEPA) has made a tentative determination to issue a NPDES Permit to discharge into the waters of the state and has prepared a draft Permit and associated fact sheet for the above named Permittee. The Public Notice period will begin and end on the dates indicated in the heading of this Public Notice/Fact Sheet. All comments on the draft Permit and requests for hearing must be received by the IEPA by U.S. Mail, carrier mail or hand delivered by the Public Notice Ending Date. Interested persons are invited to submit written comments on the draft Permit to the IEPA at the above address. Commentors shall provide his or her name and address and the nature of the issues proposed to be raised and the evidence proposed to be presented with regards to those issues. Commentors may include a request for public hearing. Persons submitting comments and/or requests for public hearing shall also send a copy of such comments or requests to the Permit applicant. The NPDES Permit and notice numbers must appear on each comment page.

The application, engineer's review notes including load limit calculations, Public Notice/Fact Sheet, draft Permit, comments received, and other documents are available for inspection and may be copied at the IEPA between 9:30 a.m. and 3:30 p.m. Monday through Friday when scheduled by the interested person.

If written comments or requests indicate a significant degree of public interest in the draft Permit, the permitting authority may, at its discretion, hold a public hearing. Public notice will be given 45 days before any public hearing. Response to comments will be provided when the final Permit is issued. For further information, please call Getie Yilma at 217/782-0610.

The following water quality and effluent standards and limitations were applied to the discharge:

Title 35: Environmental Protection, Subtitle C: Water Pollution, Chapter I: Pollution Control Board and the Clean Water Act were applied in determining the applicable standards, limitations and conditions contained in the draft Permit.

The applicant is engaged in treating domestic wastewater for the Flagg Creek WRD serving Hinsdale, Clarendon Hills, Oakbrook Terrace, Oakbrook, Westmont, Burr Ridge, Willowbrook, Villa Park, Lombard, Darien and Elmhurst. The collection system consist of approximately 83% separate sanitary sewer and 17% combined sewer.

The length of the Permit is approximately 5 years.

The main discharge number is 003. The seven day once in ten year low flow (7Q10) of the receiving stream, Flagg Creek is 0 cfs.

The design average flow (DAF) for the facility is 12.0 million gallons per day (MGD) and the design maximum flow (DMF) for the facility is 30.0 MGD. Treatment consists of screening, grit removal, primary clarification, activated sludge, chlorination/dechlorination, anaerobic

digestion, sludge storage and land application of sludge. Treated Combined Sewage (Outfall 002) is diverted prior to the main treatment process.

This Reissued Permit does not increase the facility's DAF, DMF, concentration limits, and/or load limits.

Application is made for the existing discharge(s) which are located in Cook County, Illinois. The following information identifies the discharge point, receiving stream and stream classifications:

Discharge Number	Receiving Stream	Latitude	Longitude	Stream Classification	Integrity Rating
002	Flag Creek	41° 45' 50" North	87° 54' 18" West	General Use	Not Rated
003	Flag Creek	41° 45' 50" North	87° 54' 18" West	General Use	Not Rated

To assist you further in identifying the location of the discharge(s) please see the attached map.

The stream segment(s), GK-03, receiving the discharge from outfall(s) 002, and 003 is on the 303(d) list of impaired waters.

The following parameters have been identified as the pollutants causing impairment:

Potential Causes	Uses Impaired
Arsenic, DDT, Hexachlorobenzene, methoxyehlor, total phosphorus, and alteration in stream-side or littoral vegetative cover	Aquatic life

From the treatment plant to the end of segment GK-03 is a distance of 4.16 stream miles.

Flag Creek is tributary to the Des Plaines River, The Des Plaines River, Waterbody Segment, IL\_G-03, is listed on the draft 2016 Illinois Integrated Water Quality Report and Section 303(d) List as impaired for aquatic life use with potential causes given as aquatic algae, alterations in stream-side or littoral vegetative covers, chloride, other flow regime alterations, pH and phosphorus, fish consumption use with potential causes given as mercury and polychlorinated biphenyls, and primary contact use with potential cause given as fecal coliform. Aesthetic quality use is fully supported. Segment G-03 is 8.41 stream miles in length.

The discharge(s) from the facility is (are) proposed to be monitored and limited at all times as follows:

Discharge Number(s) and Name(s): 003 STP Outfall

Load limits computed based on a design average flow (DAF) of 12.0 MGD (design maximum flow (DMF) of 30.0 MGD).

The effluent of the above discharge(s) shall be monitored and limited at all times as follows:

Parameter	LOAD LIMITS lbs/day			CONCENTRATION LIMITS mg/L			Regulation
	Monthly Average	Weekly Average	Daily Maximum	Monthly Average	Weekly Average	Daily Maximum	
CBOD <sub>5</sub> **	1001 (2502)		2002 (5004)	10		20	35 IAC 304.120 40 CFR 133.102
Suspended Solids**	1201 (3002)		2402 (6005)	12		24	35 IAC 304.120 40 CFR 133.102
pH	Shall be in the range of 6 to 9 Standard Units						35 IAC 304.125
Fecal Coliform	Daily Maximum shall not exceed 400 per 100 mL (May through October)						35 IAC 304.121
Chlorine Residual	0.038						35 IAC 302.208
Ammonia Nitrogen: (as N)							35 IAC 355 and 35 IAC 302
April-May/Sept.-Oct.	130 (325)	---	300 (751)	1.3	---	3.0	
June-August	100 (250)	250 (626)	300 (751)	1.0	2.5	3.0	
Nov.-Feb.	210 (525)	---	661 (1651)	2.1	---	6.6	
March	150 (375)	380 (951)	641 (1601)	1.5	3.8	6.4	
Total Phosphorus (as P)	100 (250)			1.0			35 IAC 309.146
Total Nitrogen (as N)	Monitor Only						35 IAC 309.146
				Monthly	Weekly		

Dissolved Oxygen  
March-July  
August-February

Avg. not  
less than

Avg. not  
less than

Daily  
Minimum

N/A

6.0

5.0 IAC 302.206

5.5

4.0

3.5

PUBLIC NOTICE

\*Load Limits are calculated by using the formula:  $8.34 \times (\text{Design Average and/or Maximum Flow in MGD}) \times (\text{Applicable Concentration in mg/L})$ .

\*\* BOD<sub>5</sub> and Suspended Solids (85% removal required): In accordance with 40 CFR 133, the 30-day average percent removal shall not be less than 85 percent.

This Permit contains an authorization to treat and discharge excess flow as follows:

Influent flows which exceed the DMF of 30 MGD for the secondary treatment process are directed to the combined sewage treatment plant, which provides clarification and disinfection treatment. The combined sewer treatment facility capacity is 42 MGD for a total wet weather treatment capacity of 72 MGD. During smaller storm events the combined sewer treatment facility is utilized as a equalization basin, and wastewater is directed back to the primary treatment plant.

Phosphorus Discharge Optimization annual progress reports are due by March 31 of each year (Special Condition 16)

Discharge Number(s) and Name(s): 002 Treated Combined Sewage Outfall (Flows in excess of 20,820 gpm)

The effluent of the above discharge(s) shall be monitored and limited at all times as follows:

CONCENTRATION  
LIMITS (mg/L)

<u>Parameter</u>	<u>Monthly Average</u>	<u>Regulation</u>
BOD <sub>5</sub>	Monitor Only	40 CFR 133.102
Suspended Solids	Monitor Only	40 CFR 133.102
pH	Shall be in the range of 6 to 9 Standard Units	35 IAC 304.125
Chlorine Residual	0.75	35 IAC 302.208
Fecal Coliform	Daily maximum shall not exceed 400 per 100mL	35 IAC 304.121
Total Phosphorus (as P)	Monitor Only	35 IAC 309.146
Ammonia Nitrogen (as N)	Monitor Only	35 IAC 309.146

This draft Permit also contains the following requirements as special conditions:

1. Reopening of this Permit to include different final effluent limitations.
2. Operation of the facility by or under the supervision of a certified operator.
3. Submission of the operational data in a specified form and at a required frequency at any time during the effective term of this Permit.
4. More frequent monitoring requirement without Public Notice in the event of operational, maintenance or other problems resulting in possible effluent deterioration.
5. Prohibition against causing or contributing to violations of water quality standards.
6. Recording the monitoring results on Discharge Monitoring Report Forms using one such form for each outfall each month and submitting the forms to IEPA each month.
7. The provisions of 40 CFR Section 122.41(m) & (n) are applicable and are hereby incorporated by reference.

8. Effluent sampling point location.
9. Controlling the sources of infiltration and inflow into the sewer system.
10. Seasonal fecal coliform limits.
11. Monitoring for arsenic, barium, cadmium, hexavalent chromium, total chromium, copper, weak acid dissociable cyanide, total cyanide, fluoride, dissolved iron, total iron, lead, manganese, mercury, nickel, oil, phenols, selenium, silver and zinc is required to be conducted semi-annually beginning 3 months from the effective date.
12. Submission of annual fiscal data.
13. Submission of semi annual reports indicating the quantities of sludge generated and disposed.
14. The Permittee is required to perform biomonitoring tests in the 18<sup>th</sup>, 15<sup>th</sup>, 12<sup>th</sup> and 9<sup>th</sup> months prior to the expiration date of the permit, and to submit the results of such tests to the IEPA within one week of receiving the results from the laboratory.
15. Capacity, Management, Operations and Maintenance (CMOM) requirements.
16. Optimization of existing treatment facilities., annual progress reports by March 31 of each year.
17. Subject to future effluent limitations pursuant to an approved Total Maximum Daily Load (TMDL) Study or an approved Des Plaines River Water Quality Study.
18. The Permittee shall maintain and implement a monitoring plan that will demonstrate that the CSO discharge does not cause or contribute to a violation of any applicable water quality standard.
19. A requirement for participation in the Lower Des Plaines Watershed Group.
20. Nutrient Assessment Reduction Plan requirements.
21. Requirement to meet 0.5 mg/L phosphorus limit by January 1, 2030.
22. Monitoring for total phosphorus, dissolved phosphorus, nitrate/nitrite, total kjeldahl nitrogen (TKN), ammonia, total nitrogen (calculated), alkalinity, specific conductivity, chloride and temperature once a month.
23. Schedule for Implementing the POTW Pretreatment Program.

