

NPDES Permit No. IL0028517

Notice No. JDS:20113001.bdf

Public Notice Beginning Date: **February 23, 2021**

Public Notice Ending Date: **March 29, 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:

City of DuQuoin  
302 East Poplar St., P.O. Box 466  
DuQuoin, Illinois 62832

Name and Address of Facility:

City of DuQuoin-STP  
896 East Cole Street  
DuQuoin, Illinois 62832  
(Perry 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 Jonathan Smith 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 and industrial wastewater for the City of DuQuoin.

The length of the Permit is approximately 5 years.

The main discharge number is 001. The seven day once in ten year low flow (7Q10) of the receiving stream, Phil's Creek is 0 cfs.

The design average flow (DAF) for the facility is 2.4 million gallons per day (MGD) and the design maximum flow (DMF) for the facility is 6 MGD. Treatment consists of screening, equalization, extended aeration, rapid sand filtration, final sedimentation (settling), and discharge to surface water. Sludge treatment consists of aerobic digestion, belt filtration, and land application.

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

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

<u>Discharge Number</u>	<u>Receiving Stream</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Stream Classification</u>	<u>Integrity Rating</u>
001	Phil's Creek	38° 1' 12" North	89° 13' 7" 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) NEBB-DQ-C1A, receiving the discharge from outfall(s) 001 is on the draft 2016 303(d) list of impaired waters.

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

<u>Potential Causes</u>	<u>Uses Impaired</u>
Dissolved Oxygen	Aquatic life

The agency has performed a risk assessment study for eutrophication using monitoring results of sestonic chlorophyll-a concentration, pH and dissolved-oxygen saturation from monitoring station, NE-05, approximately 15 miles downstream of STP Outfall 001. The data was collected during the months of May through October from 2014 through 2018. The Agency's data from monitoring station NE-05 shows the median sestonic chlorophyll-a did not exceed 26 ug/L, the daily maximum pH is less than 9.0. and the maximum pH and daily maximum dissolved-oxygen saturation did not exceed 8.35 and 110% respectively.

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): STP Outfall 001

Load limits computed based on a design average flow (DAF) of 2.4 MGD (design maximum flow (DMF) of 6 MGD).

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

<u>Parameter</u>	<u>LOAD LIMITS lbs/day</u>			<u>CONCENTRATION LIMITS mg/L</u>			<u>Regulation</u>	
	<u>Monthly Average</u>	<u>Weekly Average</u>	<u>Daily Maximum</u>	<u>Monthly Average</u>	<u>Weekly Average</u>	<u>Daily Maximum</u>		
CBOD <sub>5</sub> **	200 (500)		400 (1,001)	10		20	35 IAC 304.120 40 CFR 133.102	
Suspended Solids**	240 (600)		480 (1,201)	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 309.146	
Chlorine Residual							0.038	35 IAC 302.208
Ammonia Nitrogen: (as N)								
March	52 (130)	128 (320)	300 (751)	2.6	6.4	15	35 IAC 355 and	
April-May/Sep.-Oct.	30 (75)	128 (320)	300 (751)	1.5	6.4	15	35 IAC 302	
June-August	30 (75)	78 (195)	230 (575)	1.5	3.9	11.5		
November-February	80 (200)		202 (505)	4.0		10.1		
Total Phosphorus (as P)	20 (50)			1.0			35 IAC 304.123	
Total Nitrogen (as n)	Monitor Only						35 IAC 309.146	
Zinc	0.73 (1.8)		2.8 (7.1)	0.0367		0.1416	35 IAC 302.208	
				Monthly Avg. not less than	Weekly Avg. not less than	Daily Minimum		
Dissolved Oxygen								
March-July				NA	6.0	5.0	35 IAC 302.206	
August-February				5.5	4.0	3.5		

**DRAFT**

\*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.

\*\*\*Compliance schedules to provide the facility additional time to comply with fecal coliform effluent limits have been included in this draft permit.

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Public Notice

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. Effluent sampling point location.
8. Provisions of 40 CFR Section 122.41 (m) & (n).
9. Controlling the sources of infiltration and inflow into the sewer system.
10. A requirement to monitor and a limit of 0.038 mg/L for residual chlorine when it is used.
11. Monitoring for arsenic, barium, cadmium, hexavalent chromium, total chromium, copper, cyanide (amenable to chlorination), 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. The Permittee is required to perform biomonitoring tests in the 18th, 15th, 12th and 9th 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.
14. Submission of semi-annual reports indicating the quantities of sludge generated and disposed.
15. Maintain Phosphorus Discharge Optimization Plan.
16. Submission of Capacity, Management, Operations, and Maintenance (CMOM) plan.
17. Compliance Schedule for fecal coliform.
18. Requirement to meet 0.5 mg/L phosphorus limit by January 1, 2030.
19. 10-month monitoring for Phenols and Copper.

