

NPDES Permit No. IL0030872

Notice No. kar05222014

Public Notice Beginning Date: **June 10, 2014**

Public Notice Ending Date: **July 10, 2014**

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 Discharger:

City of St. Elmo
411 North Main Street
St. Elmo, Illinois 62458

Name and Address of Facility:

City of St. Elmo
1.2 mile west of city on U.S. Route 40
St. Elmo, Illinois
(Fayette 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 discharger. 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 Keith Runge 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 City of St. Elmo.

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, Brickyard Branch of the South Fork of Sugar Creek is 0 cfs.

The existing facility design average flow (DAF) for the facility is 0.343 million gallons per day (MGD) and the design maximum flow (DMF) for the facility is 1.31 MGD. Treatment consists of bar screen, aerated lagoons, and stabilization lagoons.

The proposed facility design average flow (DAF) for the facility is 0.40 million gallons per day (MGD) and the design maximum flow (DMF) for the facility is 1.367 MGD. Treatment consists of bar screen, aerated lagoons, and polishing reactor.

This Permit increases the facility's DAF and DMF limit, but does not increase the load limits.

Pursuant to the waiver provisions authorized by 40 CFR § 123.24, this draft permit is within the class, type, and size for which the Regional Administrator, Region V, has waived his right to review, object, or comment on this draft permit action.

This Permit recognizes and continues the year-round disinfection exemption approved by the IEPA on 5-9-90 and included in past NPDES permit actions since that date. It is the IEPA's tentative decision that under Illinois Pollution Control Board regulations, the following reach of waterbody is not classified for primary contact use activities and is not subject to the fecal coliform water quality standard of 35 Ill. Adm. Code 302.209.

This draft permit does not contain requirements for disinfection of the discharge from discharge numbers(s) 001. Brickyard Branch of the South Fork of Sugar Creek has been determined to be unsuited to support primary contact activities (swimming) due to physical, hydrologic or geographic configuration. Anyone knowing of primary contact activities occurring within this water segment is invited to submit comments to the IEPA. Comments should give the nature of the activities (i.e swimming, fishing, canoeing, etc.), the location and months of the year when these activities have been observed. The IEPA is also interested in obtaining information on the proximity of residential dwellings and the accessibility of the public to this water segment. Anyone with such information is asked to submit comments to the IEPA on this draft permit action. Instructions for submitting comments are contained earlier in this document.

Application is made for the existing discharge(s) which is located in Fayette 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	Brickyard Branch of the South Fork of Sugar Creek	39° 01' 00" North	88° 52' 00" 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) receiving the discharge from outfall(s) 001 is not on the draft 2014 303 (d) list of impaired waters.

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): 001(Existing STP Outfall)

Load limits computed based on a design average flow (DAF) of 0.343 MGD (design maximum flow (DMF) of 1.31 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>DAF (DMF)*</u>			<u>CONCENTRATION</u> <u>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 ₅	72 (272)	114 (437)		25	40		35 IAC 304.120 40 CFR 133.102			
Suspended Solids	106 (404)	129 (492)		37	45		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	Monitor Only (May through October)							35 IAC 304.121		
Ammonia Nitrogen as (N)	Monitor Only							35 IAC 302.212		
Phosphorus	Monitor Only							35 IAC 302.205		
Chlorine Residual							0.05	35 IAC 302.208		
				<u>Monthly Avg. not less than</u>	<u>Weekly Avg. not less than</u>	<u>Daily Minimum</u>				
Dissolved Oxygen										
March-July							N/A	6.0	5.0	35 IAC 302.206
August-February							5.5	4.0	3.5	

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

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): 001(Proposed STP Outfall)

Load limits computed based on a design average flow (DAF) of 0.40 MGD (design maximum flow (DMF) of 1.367 MGD).

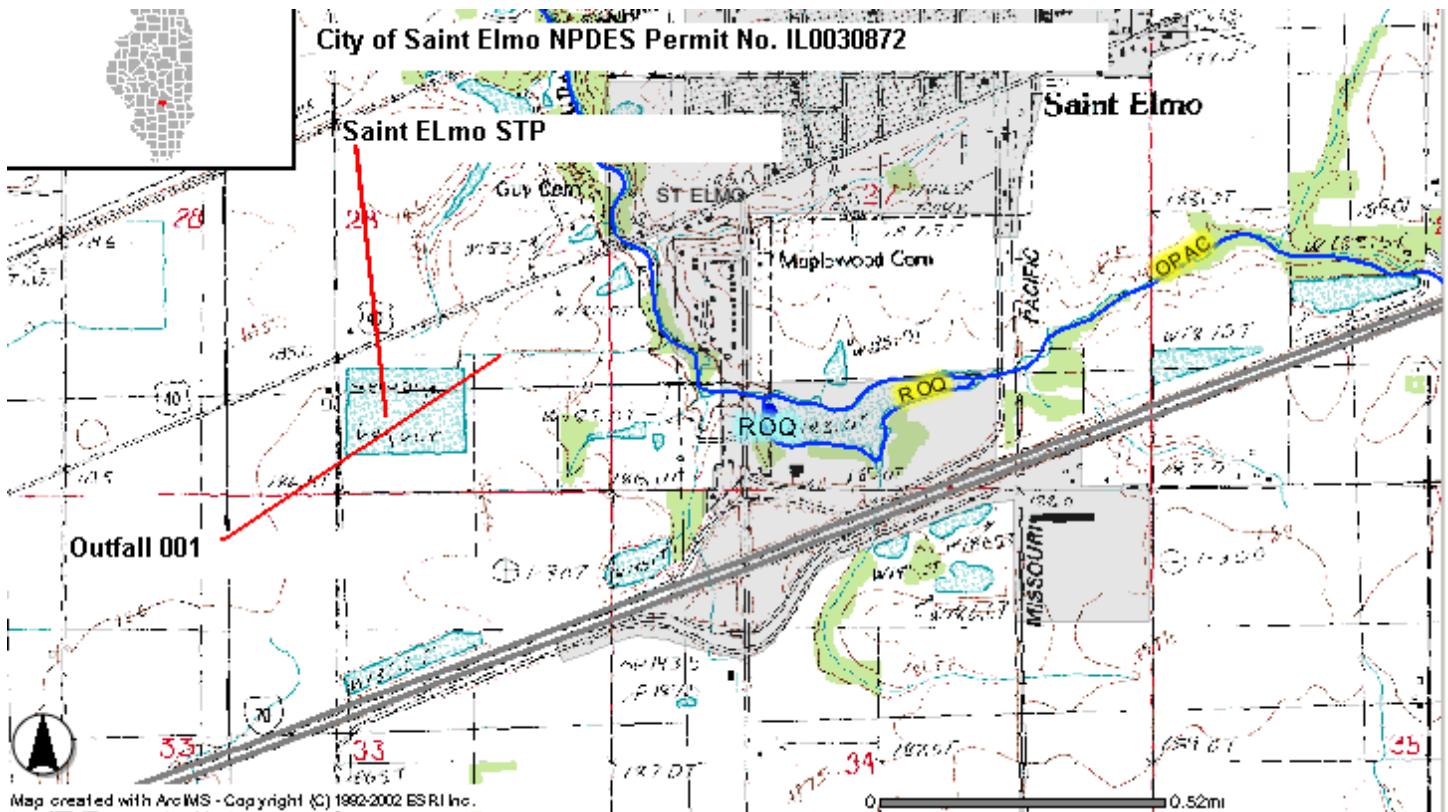
The effluent of the above discharge(s) shall be monitored and limited at all times as follows:

<u>Parameter</u>	<u>LOAD LIMITS lbs/day</u>			<u>CONCENTRATION</u>			<u>Regulation</u>
	<u>DAF (DMF)*</u>	<u>DAF (DMF)*</u>	<u>DAF (DMF)*</u>	<u>LIMITS mg/L</u>	<u>LIMITS mg/L</u>	<u>LIMITS mg/L</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 ₅	72 (272)	114 (437)		25	40		35 IAC 304.120 40 CFR 133.102
Suspended Solids	106 (404)	129 (492)		37	45		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	Monitor Only (May through October)						35 IAC 304.121
Chlorine Residual							0.05 35 IAC 302.208
Ammonia Nitrogen:							35 IAC 355 and 35 IAC 302
March-May/Sept.-Oct.	6.7(23)	17(57)	33(112)	2.0	5.0	9.8	
June-August	5.0(17)	13(43)	30(101)	1.5	3.8	8.9	
Nov.-Feb.	13(46)		23(79)	4.0		6.9	
Phosphorus	Monitor Only						35 IAC 302.205
				<u>Monthly Avg. not less than</u>	<u>Weekly Avg. not less than</u>	<u>Daily Minimum</u>	
Dissolved Oxygen							
March-July							N/A 6.0 5.0 35 IAC 302.206
August-February							5.5 4.0 3.5

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

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 incorporated herein by reference.
8. Effluent sampling point location.
9. At minimum of 85% removal of CBOD₅ and suspended solids.
10. A requirement to monitor and a limit of 0.05 mg/L for residual chlorine when it is used.
11. Submission of annual fiscal data.
12. Notify the Agency once the plant expansion is complete.



NPDES Permit No. IL0030872

Illinois Environmental Protection Agency

Division of Water Pollution Control

1021 North Grand Avenue East

Post Office Box 19276

Springfield, Illinois 62794-9276

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

Reissued (NPDES) Permit

Expiration Date:

Issue Date:

Effective Date:

Name and Address of Permittee:

City of St. Elmo
411 North Main Street
St. Elmo, Illinois 62458

Facility Name and Address:

City of St. Elmo
1.2 mile west of city on U.S. Route 40
St. Elmo, Illinois
(Fayette County)

Receiving Waters: Brickyard Branch of the South Fork of Sugar Creek

In compliance with the provisions of the Illinois Environmental Protection Act, Title 35 of the Ill. Adm. Code, Subtitle C, Chapter I, and the Clean Water Act (CWA), the above-named Permittee is hereby authorized to discharge at the above location to the above-named receiving stream in accordance with the standard conditions and attachments herein.

Permittee is not authorized to discharge after the above expiration date. In order to receive authorization to discharge beyond the expiration date, the Permittee shall submit the proper application as required by the Illinois Environmental Protection Agency (IEPA) not later than 180 days prior to the expiration date.

Alan Keller, P.E.
Manager, Permit Section
Division of Water Pollution Control

SAK:kar05222014

NPDES Permit No. IL0030872

Effluent Limitations, Monitoring, and Reporting

FINAL

Discharge Number(s) and Name(s): 001 Existing STP Outfall

Load limits computed based on a design average flow (DAF) of 0.343 MGD (design maximum flow (DMF) of 1.31 MGD).

From the effective date of this Permit until attainment of operation of the proposed facilities, the effluent of the above discharge(s) shall be monitored and limited at all times as follows:

Parameter	LOAD LIMITS lbs/day DAF (DMF)*			CONCENTRATION LIMITS mg/L			Sample Frequency	Sample Type
	Monthly Average	Weekly Average	Daily Maximum	Monthly Average	Weekly Average	Daily Maximum		
Flow (MGD)							Continuous	
CBOD ₅ **	72 (272)	114 (437)		25	40		2days/Month	Grab
Suspended Solids	106 (404)	129 (492)		37	45		2days/Month	Grab
pH	Shall be in the range of 6 to 9 Standard Units						2days/Month	Grab
Fecal Coliform ***	Monitor Only (May through October)						1day/Month	Grab
Chlorine Residual						0.05	****	Grab
Ammonia Nitrogen as (N)	Monitor Only						1day/Month	Grab
Phosphorus as (P)	Monitor Only						1day/Month	Grab
				Monthly Average not less than	Weekly Average not less than	Daily Minimum		
Dissolved Oxygen March-July				N/A	6.0	5.0	2days/Month	Grab
August-February				5.5	4.0	3.5	2days/Month	Grab

*Load limits based on design maximum flow shall apply only when flow exceeds design average flow.

**Carbonaceous BOD₅ (CBOD₅) testing shall be in accordance with 40 CFR 136.

***Fecal Coliform shall be monitored May thru October with sample results reported as a daily maximum value on the DMR.

****See Special Condition 10.

Flow shall be reported on the Discharge Monitoring Report (DMR) as monthly average and daily maximum.

pH shall be reported on the DMR as minimum and maximum value.

Chlorine Residual shall be reported on DMR as daily maximum value.

Dissolved oxygen shall be reported on the DMR as a minimum value.

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Effluent Limitations, Monitoring, and Reporting

FINAL

Discharge Number(s) and Name(s): 001Proposed STP Outfall

Load limits computed based on a design average flow (DAF) of 0.40 MGD (design maximum flow (DMF) of 1.367 MGD).

From attainment of operation of the proposed facilities until the expiration date, the effluent of the above discharge(s) shall be monitored and limited at all times as follows:

Parameter	LOAD LIMITS lbs/day DAF (DMF)*			CONCENTRATION LIMITS mg/L			Sample Frequency	Sample Type	
	Monthly Average	Weekly Average	Daily Maximum	Monthly Average	Weekly Average	Daily Maximum			
Flow (MGD)							Continuous		
CBOD ₅ **	72 (272)	114 (437)		25	40		2days/Month	Grab	
Suspended Solids	106 (404)	129 (492)		37	45		2days/Month	Grab	
pH	Shall be in the range of 6 to 9 Standard Units							2days/Month	Grab
Fecal Coliform ***	Monitor Only (May through October)							1day/Month	Grab
Chlorine Residual						0.05	****	Grab	
Ammonia Nitrogen: As (N) March-May/Sept.-Oct.	6.7(23)	17(57)	33(112)	2.0	5.0	9.8	2days/Month	Grab	
June-August	5.0(17)	13(43)	30(101)	1.5	3.8	8.9	2days/Month	Grab	
Nov.-Feb.	13(46)		23(79)	4.0		6.9	2days/Month	Grab	
Phosphorus as (P)	Monitor Only							1day/Month	Grab
				Monthly Average not less than	Weekly Average not less than	Daily Minimum			
Dissolved Oxygen March-July				N/A	6.0	5.0	2days/Month	Grab	
August-February				5.5	4.0	3.5	2days/Month	Grab	

*Load limits based on design maximum flow shall apply only when flow exceeds design average flow.

**Carbonaceous BOD₅ (CBOD₅) testing shall be in accordance with 40 CFR 136.

***Fecal Coliform shall be monitored May thru October with sample results reported as a daily maximum value on the DMR.

****See Special Condition 10.

Flow shall be reported on the Discharge Monitoring Report (DMR) as monthly average and daily maximum.

pH shall be reported on the DMR as minimum and maximum value.

Chlorine Residual shall be reported on DMR as daily maximum value.

Dissolved oxygen shall be reported on the DMR as a minimum value.

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Influent Monitoring, and Reporting

The influent to the plant shall be monitored as follows:

<u>Parameter</u>	<u>Sample Frequency</u>	<u>Sample Type</u>
Flow (MGD)	Continuous	
BOD ₅	2 days/month	Composite
Suspended Solids	2 days/month	Composite

Influent samples shall be taken at a point representative of the influent.

Flow (MGD) shall be reported on the Discharge Monitoring Report (DMR) as monthly average and daily maximum.

BOD₅ and Suspended Solids shall be reported on the DMR as a monthly average concentration.

Special Conditions

SPECIAL CONDITION 1. This Permit may be modified to include different final effluent limitations or requirements which are consistent with applicable laws, regulations, or judicial orders. The IEPA will public notice the permit modification.

SPECIAL CONDITION 2. The use or operation of this facility shall be by or under the supervision of a Certified Class 4 operator.

SPECIAL CONDITION 3. The IEPA may request in writing submittal of operational information in a specified form and at a required frequency at any time during the effective period of this Permit.

SPECIAL CONDITION 4. The IEPA may request more frequent monitoring by permit modification pursuant to 40 CFR § 122.63 and Without Public Notice in the event of operational, maintenance or other problems resulting in possible effluent deterioration.

SPECIAL CONDITION 5. The effluent, alone or in combination with other sources, shall not cause a violation of any applicable water quality standard outlined in 35 Ill. Adm. Code 302.

SPECIAL CONDITION 6. The Permittee shall record monitoring results on Discharge Monitoring Report (DMR) Forms using one such form for each outfall each month.

In the event that an outfall does not discharge during a monthly reporting period, the DMR Form shall be submitted with no discharge indicated.

The Permittee may choose to submit electronic DMRs (eDMRs) instead of mailing paper DMRs to the IEPA. More information, including registration information for the eDMR program, can be obtained on the IEPA website, <http://www.epa.state.il.us/water/edmr/index.html>.

The completed Discharge Monitoring Report forms shall be submitted to IEPA no later than the 25th day of the following month, unless otherwise specified by the permitting authority.

Permittees not using eDMRs shall mail Discharge Monitoring Reports with an original signature to the IEPA at the following address:

Illinois Environmental Protection Agency
Division of Water Pollution Control
Attention: Compliance Assurance Section, Mail Code # 19
1021 North Grand Avenue East
Post Office Box 19276
Springfield, Illinois 62794-9276

SPECIAL CONDITION 7. The provisions of 40 CFR Section 122.41(m) & (n) are applicable and are hereby incorporated by reference.

SPECIAL CONDITION 8. Samples taken in compliance with the effluent monitoring requirements shall be taken at a point representative of the discharge, but prior to entry into the receiving stream.

SPECIAL CONDITION 9. Final Conditions - For Discharge No. 001 BOD₅ and Suspended Solids (85% removal required): The arithmetic mean of the values for effluent samples collected in a period of one calendar month shall not exceed 15 percent of the arithmetic mean of the values for influent samples collected at approximately the same time during the same period, except during those periods when the influent is diluted because of high flows if the tributary sewer system is combined. The percent removal need not be reported to the IEPA on DMR's but influent and effluent data must be available, as required elsewhere in this Permit, for IEPA inspection and review. For measuring compliance with this requirement, 5 mg/L shall be added to the effluent CBOD₅ concentration to determine the effluent BOD₅ concentration.

SPECIAL CONDITION 10. For Discharge No. 001, any use of chlorine to control slime growths, odors or as an operational control, etc. shall not exceed the limit of 0.05 mg/L (daily maximum) total residual chlorine in the effluent. Sampling is required on a daily grab basis during the chlorination process. Reporting shall be submitted on the DMR's on a monthly basis.

SPECIAL CONDITION 11. During January of each year the Permittee shall submit annual fiscal data regarding sewerage system operations to the Illinois Environmental Protection Agency/Division of Water Pollution Control/Compliance Assurance Section. The Permittee may use any fiscal year period provided the period ends within twelve (12) months of the submission date.

Submission shall be on forms provided by IEPA titled "Fiscal Report Form For NPDES Permittees".

Special Conditions

SPECIAL CONDITION 12. The Permittee shall notify the IEPA in writing once the treatment plant expansion has been completed. A letter stating the date that the expansion was completed shall be sent to the following address within fourteen (14) days of the expansion becoming operational:

Illinois Environmental Protection Agency
Bureau of Water
Compliance Assurance Section, Mail Code #19
1021 North Grand Avenue East
Post Office Box 19276
Springfield, Illinois 62794-9276