

03-504

WILLETT, HOFMANN & ASSOCIATES, INC.
CONSULTING ENGINEERS

C.K. WILLETT, P.E., P.L.S.
1908-1971

ROBERT HOFMANN, P.E., S.E., P.L.S.
1921-1929

809 EAST SECOND STREET
DIXON, ILLINOIS 61021
815 284-3381 FAX 815 284-3385
EMAIL info@willethofmann.com
WEBSITE www.willethofmann.com

BERNHARD H. KLINGENBERG, P.E., P.L.S.
CHAIRMAN OF THE BOARD
RONALD J. STEENKEN, P.E., S.E.
PRESIDENT
GENERAL MANAGER
DIRECTOR OF ENGINEERING
THOMAS W. HOUCK, P.E., A.I.A.
VICE PRESIDENT
SECRETARY-TREASURER
DIRECTOR OF ARCHITECTURE
JERRY L. HINRICHS, P.E.
VICE PRESIDENT
DIRECTOR OF TRANSPORTATION ENGINEERING
ROBERT M. GASPER, P.E.
VICE PRESIDENT
DIRECTOR OF ENVIRONMENTAL ENGINEERING

October 14, 2003

Illinois Environmental Protection Agency
Bureau of Water
Division of Water Pollution Control
Compliance Assurance Section
P.O. Box 19276
Springfield, Illinois 62794-9276

Re: City of Polo, Illinois
Wastewater Treatment Plant
NPDES Provisional Variance Request

Gentlemen:

On behalf of the City of Polo, we are requesting a provisional variance for their NPDES permit limits at the wastewater treatment plant per the application requirements stated in TITLE 35: Environmental Protection Agency; Part 180: Procedures and Criteria for Reviewing Applications for Provisional Variances; Subpart B: Applications for Provisional Variances; Section 180.202 b). We have addressed below the 13 items in Section 180.202 b) on an item by item basis.

1. The provisional variance requested is to waive the CBOD₅, Suspended Solids and Ammonia Nitrogen discharge limit and allow the City to discharge settled sewage to the Buffalo Creek for a period of 45 days. The provisional variance is needed to allow the City to replace the center column of the rotary distributor mechanism in their secondary trickling filter process. We request a start date for the 45-day provisional variance of October 14, 2003 and an end date for the provisional variance of November 27, 2003.
2. The provisional variance is needed to allow the City to replace the center column of the rotary distributor mechanism in their secondary trickling filter process. The center column allows the four (4) distributor arms to rotate and discharge the wastewater from the primary clarifier evenly over the trickling filter media. Currently the operator has to manually rotate the distributor arms periodically during the day to get a somewhat even distribution over the trickling filter media.

The City of Polo is a small rural community with a population of 2,477 located approximately 13 miles northwest of Dixon, Illinois in southwest Ogle County.

3. The City of Polo wastewater treatment plant processes approximately 0.313 mgd of domestic sewage a day for treatment and discharge to the Buffalo Creek. The City of Polo operates a tertiary treatment plant, which includes fine screening, primary settling, a secondary trickling filter, final settling, a tertiary aerated lagoon, a wet weather flow lagoon, anaerobic digestions and sludge drying beds.

Illinois Environmental Protection Agency
Bureau of Water
Division of Water Pollution Control
Compliance Assurance Section
October 14, 2003
Page 3 of 3

would have to construct additional treatment facilities or haul their wastewater to another treatment plant with reserve capacity to handle the City's wastewater loadings. These other alternatives are neither practical nor economically feasible.

- 10. The provisional variance requested is to waive the CBOD₅, suspended solids and ammonia nitrogen discharge limit requirements of the City's NPDES permit and allow the City to discharge settled sewage to the Buffalo Creek for a period of 45 days.

Provisional Variance Limits

	<u>NPDES Limit</u>	<u>Variance Limit</u>	
	<u>Average Daily</u>	<u>Average Daily</u>	<u>Max. Daily</u>
CBOD ₅	10 mg/l	50 mg/l	75 mg/l
Suspended Solids	12 mg/l	50 mg/l	75 mg/l
Ammonia Nitrogen	1.4 mg/l (Apr - Oct)	6.4 mg/l	8.5 mg/l
	2.2 mg/l (Nov - Mar)	6.4 mg/l	8.5 mg/l

- 11. The City has not applied for a provisional variance within the last year.
- 12. The City operates the wastewater treatment plant in accordance with the requirements of its NPDES Permit No. IL0030449 which expires on October 31, 2004.
- 13. The Water Pollution Control Board does not have any compliance orders in effect against the City of Polo.

Please feel free to call if you have any questions.

Sincerely,

WILLETT, HOFMANN & ASSOCIATES, INC.

BY 
Matt Hansen, P.E.

MH:rv

- cc: Jeff Van Oosten, Mayor
- Susie Corbitt, Clerk
- Richard Jacks, Alderman
- Mike Gauthier, WWTP Operator
- File

03-004



WILLETT, HOFMANN & ASSOCIATES, INC.

Consulting Engineers

809 East Second Street

P.O. Box 367

Dixon, Illinois 61021-0367

Phone: 815/284-3381 Fax: 815/284-3385

e-mail: mhansen@willetthofmann.com

website: www.willetthofmann.com

212 Third Avenue
Sterling, Illinois 61081
815/828-3861
e-mail: whsterling@assex1.com
57 Airport Drive
Rockford, Illinois 61109
815/964-2897
e-mail: wharock@xta.com

Lincolnshire Business Center
701 Essington Road
Joliet, Illinois 60435
815/725-4525

FAX TRANSMITTAL

DATE: October 17, 2003

TO: IEPA

ATTN: Jay Balmer

FROM: Matt Hansen

FAX #: 217.557.1407

NUMBER OF PAGES INCLUDING THIS SHEET 3

REFERENCE: Polo, Illinois

Provisional Varlance Request

We revised the letter to include the start and end date of the provisional varlance and the average daily and maximum daily limits.

Call if you have any questions.

CONFIDENTIALITY NOTICE

This facsimile transmission and the documents attached to it contain proprietary materials which are confidential and privileged. This document and all attachments are intended solely for the use of the recipient identified. Any disclosure, duplication, dissemination or other use of this document and its attachments by anyone other than the identified recipient, or his/her agent, is strictly prohibited. If you are not the identified recipient, these materials have been transmitted to you in error. Please call us immediately to arrange for our retrieval of these documents.