

BEFORE THE ILLINOIS POLLUTION CONTROL BOARD

IN THE MATTER OF:

CITY OF GALVA SITE SPECIFIC)
WATER QUALITY STANDARD FOR) PCB No. 2009-0011
BORON DISCHARGES TO EDWARDS) (Rulemaking-Water)
RIVER AND MUD CREEK)
35 Ill. ADM. Code 303.447 and 303.448)
)

NOTICE OF FILING

John Theirrault, Assistant Clerk
Illinois Pollution Control Board
James R. Thompson Center
100 W. Randolph, Suite 11-500
Chicago, Illinois 60601

Marie Tipsord
Hearing Officer
James R. Thompson Center
100 W. Randolph, Suite 11-500
Chicago, Illinois 60601

Bill Richardson, Chief Legal Counsel
Illinois Department of Natural Resources
One Natural Resources Way
Springfield, Illinois 62702-1271

Claire A. Manning
Brown, Hay & Stephens, LLP
205 S. Fifth Street
Springfield, Illinois 62705

Alison Hayden
Brown, Hay & Stephens
205 S. Fifth Street
Springfield, Illinois 62705

Matt Dunn, Chief
Environmental Bureau
Office of the Attorney General
100 W. Randolph, 12th Floor
Chicago, Illinois 60601

PLEASE TAKE NOTICE that I have filed today with the Illinois Pollution Control Board the POST-HEARING DOCUMENT SUBMITTAL, a copy of which is herewith served upon you.

ILLINOIS ENVIRONMENTAL
PROTECTION AGENCY

By: Vera Herst
Vera Herst
Assistant Counsel
Division of Legal Counsel

Dated: April 29, 2009
1021 North Grand Ave. East
P.O. Box 19276
Springfield, Illinois 62794-9276
(217) 782-5544

THIS FILING PRINTED ON RECYCLED PAPER

BEFORE THE ILLINOIS POLLUTION CONTROL BOARD

IN THE MATTER OF:

| | | |
|---------------------------------|---|--------------------|
| PROPOSED SITE SPECIFIC RULE |) | |
| FOR CITY OF GALVA SITE SPECIFIC |) | |
| SITE SPECIFIC WATER QUALITY |) | |
| STANDARD FOR BORON DISCHARGES |) | |
| TO EDWARDS RIVER AND MUDD |) | PCB No. 2009-0011 |
| CREEK |) | (Rulemaking-Water) |
| 35 ILL. ADM. CODE 303.347 |) | |
| |) | |

ILLINOIS EPA'S POST-HEARING DOCUMENT SUBMITTAL

NOW COMES the ILLINOIS ENVIRONMENTAL PROTECTION AGENCY ("Illinois EPA"), by and through one of its attorneys, Vera Herst , and pursuant to the Illinois Pollution Control Board's ("Board") requests for information during the March 31, 2009, hearing, and in response to the April 6, 2009 Hearing Officer Order, provides the following:

1. The receiving waters for the Northeast Sewage Treatment Plant ("Northeast STP") and Southwest Sewage Treatment Plant ("Southwest STP") are zero 7Q10 low flow streams and, as with most small streams, are not part of the Illinois EPA Ambient Water Quality Monitoring Network (AWQMN). Likewise, in part due to the small size of these receiving waters, Illinois EPA has not monitored these streams through the Intensive Basin Survey program. A Facility-Related Stream Survey for

each stream was conducted in 1983 but a metals analysis was not conducted. Thus, Illinois EPA does not have any record of boron concentrations in either receiving water.

2. In lieu of this data deficiency, boron data from an AWQMN Station on Indian Creek, near Wyoming, Illinois, was provided to the petitioner for use in updating the mass-balance calculations for each site-specific standard. This data will be included in the addendum to testimony of Stephen M. Bruner. It should be noted that this data may not be representative of the background conditions of the receiving waters associated with the proposed rulemaking, as three STPs are located upstream of the AWQMN Station on Indian Creek. The City of Toulon, the nearest upstream discharger, utilizes groundwater as a water source and discharges STP effluent at a point approximately 5 miles upstream of the AWQMN Station on Indian Creek. According to the Illinois State Water Survey (ISWS) 7-Day 10-year Low Flow Map for the Spoon River Region, the Toulon STP discharges 0.17 cfs of during a 7-day low flow period. Discharge Monitoring Reports ("DMRs") for the facility verify that discharge from the lagoon occurs during summer months, despite drought conditions. The 7Q10 low flow of Indian Creek near the AWQMN Station is estimated at 0.20 cfs, which takes into consideration the 0.17 cfs of effluent from Toulon. Thus, during drought conditions Indian Creek is an effluent-dominated stream and ambient boron

concentrations may be influenced by the Toulon STP discharge. As expected, AWQMN data from Indian Creek showed higher boron concentrations during summer months, with the highest concentration being 0.14 mg/L. Nevertheless, by implementing the highest ambient boron concentration of 0.14 mg/L into the mass-balance equations, the boundaries of the proposed site-specific boron standards need not be modified, as water bodies outside of these boundaries would still meet the General Use boron standard of 1 mg/L. Updated mass-balance calculations reflecting the background boron concentrations of Indian Creek will be included in the addendum to testimony of Stephen M. Bruner.

3. There are no other NPDES facilities that discharge effluent to the receiving waters of the Northeast STP and Southwest STP. However, the Village of Altona STP discharges into Walnut Creek prior to its confluence with Mud Run. Boron contributions from the Altona STP were not considered in the initial mass-balance calculations for the receiving waters of the Galva Southwest STP discharge. The Altona STP is a lagoon system and is listed by the ISWS 7-Day 10-year Low Flow Map for the Spoon River Region as having a discharge of approximately 0.01 cfs during a 7-day low flow period. However, based on the last 8 years of DMR data, the facility typically does not discharge during summer months, therefore the Altona STP may not be contributing boron

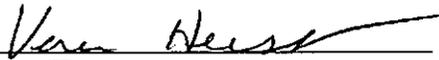
to Walnut Creek during the drought conditions used in mass-balance calculations for the site-specific standards. Illinois EPA does not have boron monitoring data from the Altona STP discharge and is therefore unaware of any exceedance of the boron standard upon outfall. Nevertheless, by assuming a maximum discharge of 3 mg/L boron in 0.01 cfs of effluent during drought conditions, it is evident that this boron source would not be significant enough to alter the water quality in Walnut Creek. An updated mass-balance calculation which accounts for the Altona STP discharge will be included in the addendum to testimony of Stephen M. Bruner.

4. The NPDES permits for the Galva Northeast STP and Southwest STP expire on August 31, 2009. Thus far Illinois EPA has only received a permit renewal application for the Northeast STP. If the Board adopts the proposed site specific rule, the Agency would review each NPDES permit renewal application and would modify the permits to reflect the proposed site-specific boron standards within the receiving waters. A daily maximum limit of 3 mg/L boron would be required in each permit to assure that the proposed site-specific boron standards are attained within the receiving waters. The United States Environmental Protection Agency ("USEPA") has the right to review minor NPDES permits such as the Galva Northeast STP and Southwest STP, but their permit reviews are typically reserved for selected major facilities. If USEPA chooses to

review these permits, it is unknown what the timeline for this review would be.

Respectfully submitted,

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

By: 
Vera Herst

Dated: April 29, 2009

Illinois Environmental Protection Agency
1021 North Grand Avenue East
Post Office Box 19276
Springfield, Illinois 62794-9276
(217) 782-5544

THIS FILING PRINTED ON RECYCLED PAPER

STATE OF ILLINOIS)
) SS
COUNTY OF SANGAMON)
)

CERTIFICATE OF SERVICE

I, the undersigned, an attorney, state that I have served electronically the attached

POST-HEARING DOCUMENT SUBMITTAL, upon the following person:

John Therriault
Assistant Clerk
Illinois Pollution Control Board
James R. Thompson Center
100 West Randolph St., Suite 11-500
Chicago, IL 60601

and mailing it by first-class mail from Springfield, Illinois, with sufficient postage affixed to the following persons:

Bill Richardson, Chief Legal Counsel
Illinois Department of Natural Resources
One Natural Resources Way
Springfield, Illinois 62702-1271

Claire A. Manning
Brown, Hay & Stephens, LLP
205 S. Fifth Street
Springfield, Illinois 62705

Alison Hayden
Brown, Hay & Stephens
205 S. Fifth Street
Springfield, Illinois 62705

Matt Dunn, Chief
Environmental Bureau
Office of the Attorney General
100 W. Randolph, 12th Floor
Chicago, Illinois 60601

Kathleen M. Crowley
Hearing Officer
James R. Thompson Center
100 W. Randolph, Suite 11-500
Chicago, Illinois 60601

ILLINOIS ENVIRONMENTAL
PROTECTION AGENCY,



Vera Herst
Assistant Counsel
Division of Legal Counsel

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Springfield, Illinois 62794-9276
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