

VARIANCE REQUEST

Iowa Department of Natural Resources

1. Date: 8/6/02
2. Review Engineer: Suresh Kumar
3. Date Received: 8/2/02
4. County Number: 86, Tama
5. Facility Name: Lincoln WW Collection System
6. Program Area: CP (Wastewater)
7. Facility Type: CO1 (Collection & Transport)
8. Subject Area: 344, LS Trash Basket
9. Rule Reference: 567-64.2(9)a
10. Design Stds Ref: 13.4.2
11. Consulting Engr: Garden & Associates
12. Variance Rule: 567-64.2(9)c

13. Decision: *Approved*
Date: 8/12/02

14. Appeal:
Date:

15. Description of Variance Request:

The unincorporated city of Lincoln and Central Iowa Water Association, which will be the owner and operator of Lincoln wastewater collection and transport system, are requesting a variance from the design standard that requires trash baskets for all lift stations handling raw wastewater to protect them from clogging. The proposed lift station will have two submersible grinder pumps.

16. Consulting Engineer's Justifications:

The grinder pumps provide substantially equivalent and effectiveness to trash baskets.

17. Department's Justifications:

Recommend variance approval. Trash baskets are generally exempted where grinder pumps are in operation.

18. Precedents Used

City of Logan 4/16/2001, Clear Lake SD 4/98

19. Reviewer: *Suresh Kumar*

Date: 8/8/02

20. Supervisor: *Gordon Jensen*

Date: 8/8/02

21. Authorized by: *J. Riessen*

Date: 8/12/02



✓ 9-19-06

STATE OF IOWA

THOMAS J. VILSACK, GOVERNOR
SALLY J. PEDERSON, LT. GOVERNOR

DEPARTMENT OF NATURAL RESOURCES
JEFFREY R. VONK, DIRECTOR

August 8, 2002

Mr. Mark Schoborg
Central Iowa Water Association
3801 S. E. Beltline Road
Newton, Iowa 50208

Re: Design Variances, Lincoln Wastewater Collection & Conveyance Project

Dear Mr. Schoborg:

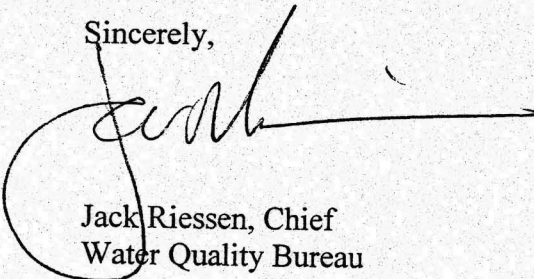
The Iowa Department of Natural Resources (IDNR) has reviewed the variance requests for your wastewater collection and conveyance system. Four variances were requested and are approved as follows:

1. Your request for a variance from Design Standard 12.5.1, to allow six-inch diameter sewer where sufficient hydraulic capacity exists instead of the eight-inch minimum size required. Your request is approved.
2. Your request for a variance from Design Standard 12.5.7.1, to allow maximum manhole spacing of up to 600 feet on gravity sewer of six-inch and eight-inch pipes instead of the required maximum 400 feet spacing. Your request is approved.
3. Your request for a variance from Design Standard 12. 6, which requires trench excavation to grade for the installation of gravity sewer. Your request is approved on the basis that the required minimum sewer slopes of 0.4% for 8 inch and 0.6% for 6 inch pipes will be maintained.
4. Your request for a variance from Design Standard 13.4.2, that requires trash baskets for all lift stations handling raw wastewater to protect them from clogging. Your request is approved on the condition that the proposed lift station will have two submersible grinder pumps.

The approval of these variances is based on our review of justifications presented to support your requests and the project's participation in the small community pilot program.

If you have any questions or comments contact Suresh Kumar of the IDNR at (515) 281-4527 or e-mail him at suresh.kumar@dnr.state.ia.us.

Sincerely,



Jack Riessen, Chief
Water Quality Bureau

cc: Garden & Associates, Ltd.
Iowa DNR Field Office 5