



TERRY E. BRANSTAD, GOVERNOR

DEPARTMENT OF NATURAL RESOURCES

LARRY J. WILSON, DIRECTOR

December 18, 1990

Schlotfeldt Engineering, Inc.
1440 Second Street
Webster City, IA 50595

ATTENTION: Curtis L. Martin, P.E.

SUBJECT: Variance Requests
Wastewater Collection and Treatment
New Providence, Iowa

Gentlemen:

The Iowa Department of Natural Resources, in accordance with subrule 567--64.2(9) of the Iowa Administrative Code has denied the request for a variance from Iowa Wastewater Facilities Design Standards sections 12.3.1.1 and 18C.4.1.1. These sections of the standards require that the hydraulic design of controlled discharge lagoons be based upon the average flow for the wettest 180 consecutive days of record, and that 100 gpcd shall be used in design calculations as the minimum average dry weather flow.

The engineering justification submitted does not substantially demonstrate that the requested variance from our minimum per capita flow allowance would provide for equivalent or improved effectiveness. Our own analysis of recently constructed municipal collection systems does not justify altering our position on requiring a minimum flow value of 100 gpd. Flows from such systems are commonly as great as 100 gpcd and often are actually as much as two times that figure as a result of excessive infiltration/inflow gaining access into the collection sewers and service lines.

It is not necessary to obtain variances as requested under items 2, 3, 4 and 5 of your letter of November 7, 1990, since Chapter 12 of our design standards was amended May 20, 1987, to permit unsewered communities to design collection systems in accordance with the proposals contained in our Technical Information Memorandum dated December 1986. A copy of this most recent amendment of Chapter 12 is enclosed for your further information.

If you have any questions, please feel free to contact Fred M. Evans at 515/281-8995.

Sincerely,

DARRELL MCALLISTER
BUREAU CHIEF
SURFACE AND GROUNDWATER PROTECTION BUREAU

DM:bkp/S&GWW351P10.01

cc: City of New Providence
Field Office 2

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