

VARIANCE REQUEST

Iowa Department of Natural Resources

1. Date: January 30, 2001
 2. Review Engineer: Larry Bryant
 3. Date Received: January 23, 2001
 4. Facility Name: McGregor WWTP
 5. County Number: 22, Clayton
 6. Program Area: CP (Wastewater Construction)
 7. Facility Type: C01 (Collection/Transport)
 8. Subject Area: 305
 9. Rule Reference: 567-64.2(9)a
 10. Design Stds Ref: 12.5.1
 11. Consulting Engr: Vierbicher Associates/Prairie Du Chien, WI
 12. Variance Rule: 567-64.2(9)c

13. Decision: *Approved*
 Date: *2/6/01*

14. Appeal:
 Date:

15. Description of Variance Request:

Use a 150' length of 6" sewer @ 1.0% to service two residential lots.

16. Consulting Engineer's Justifications

- The line is not subject to further extensions.
- A 6" line will have adequate capacity for the peak flows.

17. Department's Justifications

Recommend variance approval:

This is a dead end with a cleanout provided. There are no capacity concerns as there is more than enough capacity for two households. The arrangement meets exception criteria for unsewered communities.

18. Precedents Used

City of McGregor – Approved 5/7/93
 City of Clermont – Approved 8/1/97
 City of Clermont – Approved 7/20/94
 City of Cherokee – Approved 8/19/97
 City of Fairfield – Approved 10/10/89
 City of Leon – Approved 9/25/91

City of Lisbon – Approved 1/11/89
 City of Albia – Approved 8/3/87
 City of Keokuk – Approved 6/3/87
 City of Libertyville – Approved 9/3/93
 City of Corning – Approved 6/27/97

19. Staff Reviewer: *[Signature]*

Date: *1/30/01*

20. Supervisor: *[Signature]*

Date: *1/30/01*

21. Authorized by: *[Signature]*

Date: *2/6/01*

VIERBICHER
ASSOCIATES

January 11, 2001

Larry Bryant
Iowa DNR, Environmental Protection Division
Henry A. Wallace Building
502 East 9th Street
Des Moines, IA 50319-0034

Re: McGregor, IA - Ridgewood West II

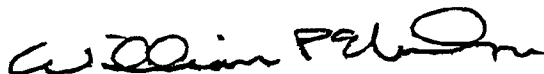
Dear Mr. Bryant:

On behalf of the City of McGregor, we are requesting a variance from Chapter 1 of Design Standards to allow the city to install and continue to own and maintain a grinder pump station to potentially serve a maximum of three single family homes. Three single-family lots cannot be served by gravity sewer, and are located near the top of a ridge, so no other nearby property requires a lift station. The city is the developer, and prefers to retain ownership of the proposed grinder pump station rather than turning it over to the eventual lot owners. This is the most cost-effective means of serving these lots, and the city will install a pump that is the same brand and horsepower as several other grinder pump stations (duplex and simplex) owned by the city. This way, the city has spare pumps that can be switched in the event of pump failure.

The average daily flow to the station will be 900 GPD (9 persons x 100 gpcd) or 37.5 gal/hour. The station will be equipped with a high-water alarm, but also has a capacity of about 300 gallons before overflowing, which will allow ample time to repair or switch pumps, if necessary.

Please contact me if you have any questions.

Sincerely,
Vierbicher Associates, Inc



WILLIAM P. VIERBICHER, DE

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