

TERRY E. BRANSTAD, GOVERNOR KIM REYNOLDS, LT. GOVERNOR

STATE OF IOWA

DEPARTMENT OF NATURAL RESOURCES ROGER L. LANDE, DIRECTOR

June 17, 2011

Mr. Steve Kendall City Administrator City of Oelwein 20 Second Avenue SW Oelwein, IA 50662

> Subject: Variance Request from Design Standards Section 13.4.2 First Avenue Lift Station Improvements City of Oelwein, Iowa IDNR Project No. S2010-0150

Dear Mr. Kendall:

After careful and thorough consideration, the Department has <u>denied</u> your June 15, 2011 request for a variance from Section 13.4.2 of the Iowa Wastewater Facilities Design Standards which requires protection from clogging to be provided for the pumps installed in wastewater pump stations. The above variance is denied due to the fact that the justification presented does not substantially demonstrate that the project resulting from the proposed variance provides equivalent or improved effectiveness. The requested variance is not deemed to be necessary and appropriate pursuant to the Iowa Code Section 455B.181.

Pursuant to Iowa Code Section 455B.181, and 561 Iowa Administrative Code (IAC) 7.4(1), as adopted by reference by 567 IAC Chapter 7, a written notice of appeal to the Environmental Protection Commission may be filed within 30 days of receipt of this letter. The notice of appeal is required to be filed with the Director of the Department, and must identify the specific portion or portions of the variance denial that are being appealed and include a short and plain statement of the reasons for appeal. A contested case hearing will then be commenced pursuant to Iowa Code Chapter 17A, 561 IAC Chapter 7, and 567 IAC Chapter 7.

If you have any questions, please call Marty Jacobs at 515-242-6148 or Emy Liu at 515-281-8509.

Sincerely,

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Satya P. Chennupati, P.E. Wastewater Engineering Section Supervisor

 cc: Steve Van Dyke, P.E., Fox Engineering Associates, Inc. DNR Field Office # 1
 DNR Sewage File # 6-33-53-0-01
 DNR Legal Services - Diana Hansen

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VARIANCE REQUEST Iowa Department of Natural Resources				
1 Data:				
	lune 17, 2011	14.	Decision: Rened	
	Aarty Jacobs		Date: 6/21/11	
	lune 15, 2011			
	City of Oelwein			
,	3-33-53-0-01	15	Anne ele di	
	33 (Fayette)	15.	Appealed: Date:	
-	CP (Wastewater)		Date	10
	C05 (collection/transport) 344 (pump clogging protection)			
				2
	567-64.2(9)a 3.4.2			
0	OX			
00	567-64.2(9)c			
16. Description of Variance				
		lowa h	Vastewater Facilities Design	
The City of Oelwein is requesting variance from the Iowa Wastewater Facilities Design Standards Chapter 13 – Wastewater Pump Stations and Force Mains – 13.4.2 (Protection				
Against Clogging) for installation of a wastewater lift station without a trash basket or				
screens.				
17. Applicant's/Consulting Engineer's Justification:				-
	ire frequent maintenance and	d can r	esult in sewer backups if not	
cleaned routinely.		a oan i		1 N
 Collected screenings are messy, difficult to deal with and may present an infection risk 				
	ff if not handled properly. The			
with at the treatment plant, which includes automated screenings collection, washing				
and compaction.				
3. Oelwein collection system staff members do not want the trash baskets for this lift				
station for the reasons listed above.				
4. In our experience, a large proportion of installed trash baskets are not utilized at				
similar pump stations in Iowa. They are often removed by collection system staff after				
construction due to the maintenance issues, and cities have not experienced				
significant increases in pump plugging.				
18. Department's Justification:				
Recommend variance <u>denial</u> .				
This variance has not been approved on previous projects and does not appear to provide				
equivalent effectiveness. Although the manufacturer's literature provided states that this				
pump design is resistant to clogging, it does not state the pumps are recommended for				
use without trash baske	ets or screens.			-
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	mise City, 10/27/08; Boyden,	3/6/90); New London, 8/23/99; Halbur	
12/21/99;				
				_
20. Staff Reviewer: UM	interfacte		Date: 6-17-11	TUL
21. Supervisor: Tex King Date: 6-17-11				
22. Authorized by: Marin Lattinen Date: 6/27/11				
	Shiter Md Burg	anu	ueo	

Aspen Business Park 414 South 17th Street, Suite 107 Ames, Iowa 50010



June 15, 2011

Marty Jacobs Iowa Department of Natural Resources - Wastewater Engineering Section Wallace Building 502 East 9th Street Des Moines, Iowa 50319-0034

RE: Trash Basket Variance Request Oelwein 1st Avenue Lift Station Improvements PROJECT No. 2003-09B

Dear Marty:

The current version of IDNR Design Standard 13.4.2 requires trash baskets for all collection system pump stations. We hereby request a variance from this Standard for this project based on the following:

- 1. Trash baskets require frequent maintenance and can result in sewer backups if not cleaned routinely.
- 2. Collected screenings are messy, difficult to deal with and may present an infection risk to maintenance staff if not handled properly. These materials are much better dealt with at the treatment plant, which includes automated screenings collection, washing and compaction.
- 3. Oelwein collection system staff members do not want the trash baskets for this lift station for the reasons listed above.
- 4. In our experience, a large proportion of installed trash baskets are not utilized at similar pump stations in Iowa. They are often removed by collection system staff after construction due to the maintenance issues, and cities have not experienced significant increases in pump plugging.
- 5. In response to these issues, the IDNR is proposing to remove the trash basket requirement for small lift stations in their draft version of IDNR Design Standard Chapter 13.
- 6. We are limiting the pumps allowed for this project to three models that have an exceptional reputation for handling solids, especially rags and stringy materials which are the cause of the majority of pump plugging issues.
- 7. We received a similar variance for a recent project in Humbolt (May Street Pump Station constructed in 2004).

I trust that this information will be sufficient to justify a variance for this project. If you have any questions or concerns, please do not hesitate to contact me or Lance Aldrich.

Sincerely, FOX Engineering Associates, Inc.

Steve Van Dyke

Steve Van Dyke, P.E. Principal