

Terry E. Branstad, Governor Kim Reynolds, Lt. Governor

October 21, 2013

STATE OF IOWA

DEPARTMENT OF NATURAL RESOURCES CHUCK GIPP, DIRECTOR

City of Garner Randy Lansing 135 West Fifth St. Garner, IA 50438

RE: Earthen Sludge Storage Lagoon Project City of Garner DNR Project No. S2014-0029

Subject: Variance Request from 567 IAC 64.2(9) and Design Standards Section 17.5.3

Dear Mr. Lansing:

After careful and thorough consideration, the Department has <u>approved</u> your October 4, 2013 request for a variance from Iowa Administrative Code Subrule 64.2(9) and Chapter 17.5.3 of the Iowa Wastewater Facilities Design Standards, which requires installation of aeration equipment in sludge holding lagoons to ensure adequate mixing.

Based on the documentation presented by your Engineer, it is the determination of this Department that satisfactory justification has been presented to warrant the granting of a variance for sludge storage without aeration equipment. The requested variance is deemed to be reasonable and necessary pursuant to the Iowa Code section 455B.181.

The facts presented for the project present unique circumstances and the variance is therefore justified to provide the narrowest exception possible to the provisions of the rule in accordance with Rule 561 IAC 10.5. Since the project planning and construction may last more than one year, the variance is considered to be of a permanent nature. The validity of this variance approval shall last for a period of one year from the date of the construction permit in accordance with Rule 561 IAC 10.5.

This decision is based on our review of justification presented to support the request. Our concurrence with the request is based on the Department's finding that the resulting project will provide substantially equivalent effectiveness as would be provided by technical compliance with the design standard on this issue.

This variance approval is subject to the following **conditions and requirements**:

1. Should the Department determine that nuisance odors are occurring, then aeration equipment shall be installed per 17.5.3.

Please feel free to call Laura Knispel at 515-281-7953 or email her at laura.knispel@dnr.iowa.gov if you have any further questions.

Sincerely,

Shelli Grapp Water Quality Bureau Chief

Cc: Tim Moreau - Veenstra & Kimm (Mason City) DNR FO #2 DNR Sewage File 6-41-30-0-01 DNR Legal Services

		VARIANCE	REQUEST		)
		Iowa Department of	Natural Res	sources	roued
	Date:	10/8/13	14.	Decision: Upp Date: 10 - 28 -	- 13
	Reviewer/Engr.:	Laura Knispel		Date: 70 - 28	
3.	Date Received:	10/4/13			
). 1.	Facility Name:	Garner STP			
5.	Facility Number:	6-31-30-0-02		A use a la di	
,. 3.	County Number:	41 (Hancock)	15.		
7. 7.	Program Area:	CP (Wastewater)		Date:	
3.	Facility Type:	C05 (Biological			
		Treatment)			
Э.	Subject Area:	366			
10.	Rule Reference:	567-64.2(9) a			
11.	Design Std. Ref.:	17.3.5.3			
12.	Consulting Engr.:	Veenstra & Kimm			
13	Variance Rule:	567-64.2(9) c			
16	Description of Varia	nce Request:			
the ther The equ Sta The the	sludge in the spring m to land apply the s e City is proposing to ualization basins and andards 17.3.5.3 req e proposed design d sludge storage lago	h. The sludge digester had problems finding la , and determined that sludge during the fall w o construct an open slu d requests a variance f uirements for mixing a loes not include a perr bon as required by the	when landow udge storage from the low and air requir nanently ins Design Sta	e lagoon inside one a Wastewater Faci rements for sludge talled mixing or aer	eeable. of their existing lity Design holding lagoons.
		ting Engineer's Justific			
col	e lagoon will be use mpletely digested in ration and mixing sh udge hauler prior to l	d for storage of treated the aerobic digester b hould not be necessary land application.	d sludge onl before it is tra 7. The sludg	y. The sludge will h ansferred to the hol e will be thoroughly	ave been ding lagoon, so mixed by the
18	3. Department's Just	ification:			
Ap	pproval is recommen	e approval (with con nded based on the stal astruction permit that w 3.5.3 if nuisance odors	/ill require in	generated sludge, b stallation of aeratio	out a condition wil n/mixing
15	9. Precedents Used				

LWB 10/10/13	20. Staff Reviewer:	Date: (0/10/13
	21. Supervisor: John Manuepati	Date: 10/25/12
	22. Authorized by: Shelli Shapp	Date: 10-28-13