

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

STATE OF IOWA

DEPARTMENT OF NATURAL RESOURCES JEFFREY R. VONK, DIRECTOR

April 11, 2002

The Honorable John Mardis Mayor of Evansdale 123 N. Evans Road Evansdale, Iowa 50707-1199

SUBJECT: Variance from IA 17.3.5.3

Evansdale, Iowa 6-07-23-0-01

Dear Mayor Mardis:

The Iowa Department of Natural Resources in accordance with Subrule 567—64.2 (9) c of the Iowa Administrative Code has approved your request for a variance from the Department Rule 567—64.2 (9) b, I.A.C. and Chapter 17.3.5.3 of the Iowa Wastewater Facilities Design Standards, which requires a minimum of 1.0 horsepower per 1,000 ft³ aeration for a sludge storage lagoons, if mechanical aerators are utilized. Based on the documentation presented by the designing engineer, it is the determination of this Department that satisfactory justification has been presented to warrant the granting of a variance to the City of Evansdale for using the new sludge storage lagoon without aeration and mixing. In the future, however, if the Department determines that the proposed facility is causing any odor or other operational problems due to the absence of aeration and mixing, the City shall obtain a construction permit and install aeration equipment as required by paragraph 17.3.5.3 of the Iowa Design Standards within 18 months of written notification.

This approval does not relieve the city from any responsibilities to insure that the proposed sludge storage lagoons are properly designed, constructed, operated and maintained to meet Iowa Wastewater Facilities Design Standards and to minimize any adverse environmental impacts.

Sincerely,

Jack Riessen Bureau Chief Water Quality Bureau

cc: Shive-Hattery, Inc., Iowa City Field Office #1

> WALLACE STATE OFFICE BUILDING / 502 EAST 9th STREET / DES MOINES, IOWA 50319 515-281-5918 TDD 515-242-5967 FAX 515-281-6794 www.state.ia.us/dnr

VARIANCE REQUEST Iowa Department of Natural Resources		
 Date: April 11, 2002 Review Engineer: Emy W. Liu Date Received: January 23, 2002 Facility Name: City of Evansdale Wastewater Treatments County Number: 07, Black Hawk Program Area: CP (Wastewater) Facility Type : C05 Subject Area : 320 Rule Reference: 567-64.2(9)a Design Stds Ref: 17.3.5.3 Consulting Engr: Shive Hattery, Iowa City, Iowa Variance Rule: 567-64.2(9)c 	13.Decision: Approved Date: Ulizioz ment 14.Appeal: Date:	
 15. <u>Description of Variance Request:</u> The City of Evansdale is requesting that the mixing and ae A 17.3.5.3 not be required for their digested sludge storage 6. <u>Consulting Engineer's Justifications:</u> The primary purpose of the sludge holding lagoon is the should not be necessary. 3. The consulting engineers have provided adequate electric installation of mechanical aerators if in the future odor lagoon. 4. One of the objectives of this project is to reduce odor provided adequate plan for odor reduction includes a). Represented the sludge digestion tank; c) Better stabilize the sludge aeration, aeration tank detention time (size), sludge comprise to the digester. 	ge lagoon. The storage of digested sludge. This is transferred to this basin and further aeration ric service as part of this project to allow for the becomes a problem in the sludge holding problem the WWTP used to have. A move the primary clarifier, which is a major obic digestion tank; b). Provide adequate air to entering the digester through increasing	
 <u>Department's Justifications:</u> The lagoon meets the minimum separation distance critication 	teria, i.e. 400 feet separation from lakes and ill dissipate before reaching the residential	

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City of Carroll, IA Approved 5/8/84 (Anaerobic sludge)	
19. Staff Reviewer: Englemendin 20. Supervisor: 21. Authorized by:	Date: $\frac{1}{102}$ Date: $\frac{4}{1202}$