

KANSAS GEOLOGICAL SURVEY

1930 Constant Ave., Campus West
The University of Kansas
Lawrence, Kansas 66047-3726
phone 785-864-3965
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Proposed Project for Application to the Kansas Department of Health and Environment for the Kansas Water Pollution Control Revolving Loan Fund

Applicant: City of Iola
Wastewater Treatment Plant Upgrade

Contact Person: Steven D. Sandberg, P.E.
Address: Professional Engineering Consultants, P.A.
1263 S.W. Topeka Blvd.
Topeka, KS 66612

Sent to the Kansas Geological Survey for environmental review.

Agency Review Comments:

The project involves upgrading the existing wastewater treatment lagoon system. The lagoon system is located in the floodplain of the Neosho River at the confluence of Elm Creek and the river. The long-term benefits of the improved wastewater treatment, which should improve the quality of the treated effluent entering the Neosho River, should offset any short-term adverse environmental impacts during construction. However, the location of the lagoons in the floodplain adjacent to the Neosho River and Elm Creek raises questions of the impact of erosion of the lagoon walls during high flows of the river and the creek, as well as contamination of flood waters during potential flooding of the lagoon area. The project information does not indicate whether there is a levee around the lagoons to protect from erosion and flooding, whether the lagoon improvements will include inspection of lagoon berms for erosion, and whether there will be any strengthening or increase in height of the berms or levees.

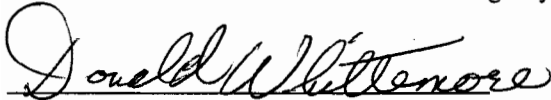
Recommended Action:

- ☒ Clearance of project should be granted
- ☐ Clearance of project should not be granted
- ☐ Clearance of project should be delayed until the issues or questions have been clarified
- ☐ Clearance of project should not be delayed, but the applicant (in the application) should address or clarify the questions or concerns indicated above

Donald Whittemore
Reviewer's Name

Geohydrology Section, Kansas Geological Survey
Division/Agency

9/28/06
Date


Reviewer's Signature

The above discussion represents our best assessment based on the information that the Kansas Geological Survey has about this locality and/or proposed project at the time of this writing. Other geologic conditions, not discussed herein, or for which the Kansas Geological Survey has no knowledge, may affect the viability or safe operation of this facility or property. The information provided in this letter is from regional or county-wide studies and should not be used as a substitute for detailed site characterization by a licensed geologist or engineer. It is the responsibility of the applicant to provide any required site characterizations.

Additional note: The letter from Professional Engineering Consultants to the Kansas Geological Survey was addressed to Dr. Lee Allison. Please note that Dr. Allison has not been the Director of the Kansas Geological Survey since the middle of August 2004. The current Director is Dr. William Harrison.



Professional Engineering Consultants, P.A.

August 25, 2006

Dr. Lee Allison
Kansas Geological Survey
KU-1930 Constant Ave. – Campus West
Lawrence, Kansas 66047

RE: Intergovernmental Review Process for KDHE/RLF
Request for Environmental Review and Clearance
Iola Wastewater Lagoons Upgrade
KDHE RLF No. C20-1618-01
PEC Project No. 05A70-001-3704

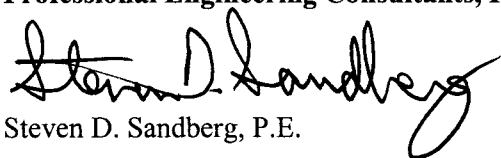
Dear Dr. Allison:

The City of Iola, Kansas is proposing to upgrade the existing Wastewater Treatment Lagoon System. Their intent is to request state funds through the Kansas Water Pollution Control Revolving Loan Fund program. One of the requirements of the Kansas Department of Health and Environment (KDHE) is that applicants prepare an environmental clearance document to be sent to a number of state and federal agencies. Your agency is one of those listed by KDHE.

The attached information includes a preliminary copy of the KWPCRLF application form, a narrative description of the project and a site map. Please review the information at your earliest convenience, and provide project "clearance" or comments as appropriate. We respectfully request your response by September 29, 2006. Comments should be returned to this office.

Please contact me if you have any questions regarding the project or information contained within the application package. Your prompt consideration of the review request is greatly appreciated.

Sincerely,
Professional Engineering Consultants, P.A.


Steven D. Sandberg, P.E.

SDS/pkr
Attachments

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WICHITA

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Kansas Department of Health and Environment

APPLICATION FOR SRF LOAN ASSISTANCE		New	Amendment
Project Number	C 20- - 1618-01	Application Type	X
1. Legal Applicant / Recipient		2. Type of Applicant / Recipient	
Applicant Name	City of Iola	A. City	
Organization Unit	Water and Wastewater Treatment Dept.	B. County	
Street / PO Box	2 W. Jackson St., P.O. Box 308	C. Other (Specify)	
City	Iola	Enter Appropriate Letter	A
County	Allen		
State / Zip code	KS 66749		
Contact Person Name	Judy Brigham, City Administrator		
Telephone Number	620-365-4902		
3. Title of applicants project Iola WWTP Upgrade			
4. Type of Project WWTP and Plant PS Upgrade, including pre-aeration			
5. Employer Identification Number		48-6039801	
6. Area of project impact (Names of cities, counties, etc)		Iola, KS	
7a. Congressional District / Applicant		2	
7b. Congressional District / Project		2	
8. Type of change		Increase dollars	\$ -
		Decrease dollars	\$ -
9. Proposed Funding			
SRF Loan 9a.	\$ 2,785,000	10. Project Start Date Jan. 07	(Estimated)
Applicant 9b.	\$ 200,000		
CDBG 9c.	\$ 400,000	11. Project Duration 12	(Months)
EPA 9d.	\$ -		
EDA 9e.	\$ -	12. Date Submitted Spet. 06	(To KDHE)
Other 9f.	\$ -		
Total	\$ 3,385,000		
13. Requested Loan Repayment Period (Must not be over 20 years)		20	
14. The applicant certifies that: To the best of my knowledge and belief, data in this pre-application / application is true and correct, the document has been duly authorized by the governing body of the applicant and the applicant will comply with the attached assurances if the assistance is approved		This notice of intent / preapplication / application was made available to the state executive order 12372 process for review on: Date	
		Signature	
15. Certifying Representative			
Name	John McRae		
Title	Mayor		
Mail completed application to:		If you need assistance please contact:	
Kansas Department of Health and Environment		Bill Mondy	
Bureau of Water / Attn: Rod Geisler		Administrative / Finance Section, Suite 420	
Municipal Programs Section, Suite 420		1000 SW Jackson Street	
1000 SW Jackson Street		Topeka, KS 66612-1367	
Topeka, KS 66612-1367		785-296-4049	

PROJECT INFORMATION
IOLA, KANSAS
IOLA WASTEWATER TREATMENT PLANT UPGRADE

1. Project Narrative Description: The City of Iola, Kansas is proposing to upgrade the existing wastewater treatment lagoon system. The existing lagoon system was constructed in 1962. Proposed improvements will include the replacement of 40+ year old major mechanical and electrical components of the Plant Pump Station, influent pre-aeration for initial biological treatment of the raw influent that has a strength greater than typical domestic wastewater, modifications to structures and transfer piping to optimize the use of the lagoon volume and surface area, modification of the fourth cell for multi-level draw-off capabilities for better algal solids control, and a new outfall line to the Neosho River that will also maximize the use of the existing lagoons' volumes. The facility has an estimated maximum loading potential of 3,400 pounds per day of biochemical oxygen demand (BOD), or an equivalent of a contributing population of approximately 20,000 persons. Due to the industrial contribution to the BOD strength of the wastewater, the hydraulic capacity will not be the equivalent of 20,000 persons. Current average daily flow is about 650,000 gallons per day with an average BOD loading of 1,550 pounds per day. The receiving body is the Neosho River, which is tributary to the Arkansas River. Discharge limits for the facility are standard for a discharging lagoon system and include 30 mg/l Biochemical Oxygen Demand (BOD5) and 80 mg/l Total Suspended Solids (TSS).
2. Site Map: A site map of the project area is attached.
3. Legal Description: The project is located in the N 1/2 of Section 3, T25S, R18E, of the 6th P.M. in Allen County, Kansas. The present land use is the existing 100 acre wastewater treatment lagoon facility. The predominant vegetation at the plant site is located along the lagoon embankments and is grass.
4. Environmental Information: The project is not known to be in close proximity to any sensitive fish or wildlife habitats. The Contractor will, however, be required to comply with all EPA and KDHE requirements for preventing runoff pollution due to construction activities. The project will improve water quality in the receiving stream by providing improved treatment for reducing discharge concentrations of BOD5 and TSS.

