

1930 Constant Avenue
Lawrence, KS 66047-3724
December 21, 2007

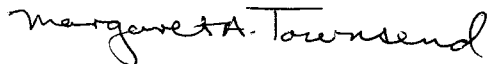
Heather Poore
Osborne Economic Development
130 N. First
Osborne, KS 67473

Dear Ms. Poore:

I was asked to comment on the repair of the defective sanitary sewer main. Based on the information provided to me I see no problem with the project proceeding as described. I presume that the construction materials used for the project follow the acceptable KDHE code and are sufficient to prevent leakage to the alluvial aquifer.

The above comments are based on regional geologic conditions and limited information available to the KGS at the time of writing and cannot be used in substitute for a detailed site characterization. Other geologic conditions, not discussed here, or for which the KGS has no knowledge, may affect the viability or safe operation of this facility or property. Geotechnical engineering and design are outside the purview of the KGS. It is the responsibility of the applicant to produce any detailed site characterizations, geotechnical or environmental testing, or design by a licensed professional geologist or engineer to complete the project.

Sincerely,



Margaret A. Townsend
Hydrogeologist
Geohydrology Section



Osborne Economic Development

130 N. First Osborne, KS 67473 • Phone: 785.346.2670 • Fax: 785.346.2522 • www.discoverosborne.com

November 14, 2007

Kansas Geological Survey
University of Kansas
Attn: Dr. William Harrison
1930 Constant Ave
Campus West
Lawrence, KS 66047

Dear Dr. Harrison.

The City of Osborne, Osborne, Kansas is applying for Revolving Loan Funds through the Kansas Department of Health and Environment Division of Environment, Bureau of Water to repair the defective sanitary sewer main. The problem involves repairing the defective sanitary sewer main using Insituform where possible and with open trench where necessary.

The City is conducting an environmental assessment of the above project. The loan will be used to finance the repairs to the 3,300 ft of defective sanitary sewer mains. Specifically to Osborne, this trunk line begins at Washington Street near the center of town and runs in a southerly direction to a lift station that then pumps material to the City Lagoons. I have enclosed a copy of two maps showing the location of this sanitary sewer main. We request that your agency review the project and advise the City regarding the environmental impact of this project. Enclosed you will find an "Environmental Assessment Review" form for your convenience in issuing your response concerning the impact categories noted.

Please return the review form and any other pertinent information to my attention by November 12, 2007 as indicated on the Environmental Assessment Review form. If you have any questions or need additional information, please contact Heather Poore at (785) 346-2670 or e-mail hpoore@edgrrd.com.

Sincerely,

Heather Poore
Osborne Economic Development

ENVIRONMENTAL ASSESSMENT REVIEW

REQUEST FOR ACTION ON GRANT REVIEW

Agency Name:

Kansas Geological Survey
University of Kansas
Attn: Dr. William Harrison
1930 Constant Ave
Lawrence, KS 66047

Applicant's Name and Address:

City of Osborne
128 N. First
Osborne, KS 67473

Return No Later Than:

November 30, 2007 (see address above)

The City of Osborne has submitted the enclosed proposal for an Environmental Assessment Review. Your review of this proposal as it affects regional or local interest will be appreciated. Your appropriate comments concerning the proposal should be submitted no later than the date specified above.

_____ Not Applicable to this project _____ Project is in Compliance*

_____ Compliance Review Required _____ Permits Required*

_____ Conditions and/or Mitigation Actions Required*

Comments:

Reviewer's Signature /Title

9. **Proposed Work:** It is proposed to repair the defective sanitary sewer main using Insituform where access is restricted and with open trench where access is available. The pipe bursting method of repair requires that a significant area around each manhole be excavated, including the manhole and frequently the street pavement, in order to slide the semi rigid pipe into the existing pipe. Installation of new pipe by open trench will work well in the southern 800 feet of the line where access is not only available, but space exists to stockpile the excavated dirt. From Massachusetts to Washington will use Insituform. Although the manholes are in generally good condition, the proposed work includes replacing approximately half of them.

Osborne, Kansas
 Cost Estimate
 Sanitary Sewer Rehabilitation Project
 April 10, 2007

Work Item	Quantity	Unit	Unit Cost	Extension
12" Insituform Liner (Wall Thickness = 6 mm)	2500	LinFt	\$65.00	\$162,500
12" PVC Gravity Pipe	800	LinFt	\$35.00	\$28,000
48" RC Manholes	7	Each	\$3,000.00	\$21,000
Traffic Control	LSum	LS	\$4,000.00	\$4,000
Total Construction Costs				\$215,500
Engineering				\$12,000
Inspection				\$8,000
Total of Above Items				\$235,500

Prepared by:
 John Cashatt, PE
 Schwab-Eaton, PA

City of Osborne, Kansas

North

