

KANSAS GEOLOGICAL SURVEY

1930 Constant Ave., Campus West
The University of Kansas
Lawrence, Kansas 66047-3726
phone 785-864-3965
fax 785-864-5317

Proposed Project for Application to the Kansas Department of Health and Environment for the Kansas Public Water Supply Loan fund

Applicant: City of Bogue
Replacement and Upgrading of Potable Water Distribution System

Contact Person: Corina Cox
Address: Economic Development Coordinator
Northwest Kansas Planning & Development Commission
P.O. Box 248
Hill City, KS 67642

Sent to the Kansas Geological Survey for environmental review.

Agency Review Comments:

The project includes the replacement of water lines, which are indicated as cast (iron?) on the project site map. Assuming that the old lines are leaking, the long-term benefits of replacement will not only include decreasing the loss of water from the lines during nearly all periods, but also the possibility of entrance of untreated water into the lines from the subsurface during wet periods if temporary flooding by intense rainstorms produces a higher hydraulic head at some locations than within the lines. These long-term benefits should offset any short-term adverse environmental impacts during construction.

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

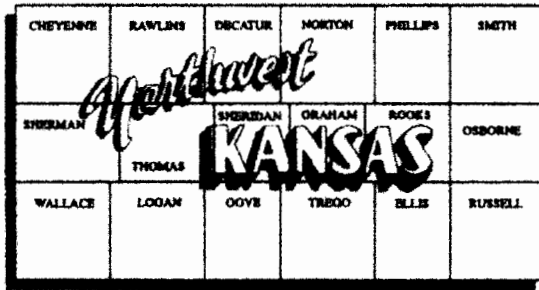
Donald Whittemore
Reviewer's Name

Geohydrology Section, Kansas Geological Survey
Division/Agency

8/21/06
Date

Donald Whittemore
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.



**NORTHWEST KANSAS
PLANNING and DEVELOPMENT
COMMISSION**
319 N. Pomeroy
Box 248
Hill City, Kansas 67642-0248
(785) 421-2151 Fax (785) 421-3496

Kansas Geological Survey
University of Kansas
1930 Constant Avenue, Campus West
Lawrence, KS 66047

July 19, 2006

RE: City of Bogue, Kansas, Project #2460
Kansas Public Water Supply Loan Fund

To Whom It May Concern:

City of Bogue is applying for Kansas Public Water Supply Loan Funds through the Kansas Department of Health & Environment, Bureau of Water. The project will replace and upgrade the existing potable water distribution system throughout the City, where noted on the attached project site map, in order to meet domestic water requirements and eliminate substantial maintenance repair costs. The City of Bogue will be requesting \$176,162 to fund one-half of the total project cost. The City of Bogue will be applying for 2007 CDBG funds for the remainder of the project cost.

Our office is conducting an environmental assessment to identify and access the significance of potential environmental impacts the proposed project may cause. Enclosed is an Environmental Assessment Review form indicating the impact category you are considering for your response.

Please return the review form with comments to my attention by **August 19, 2006**, as indicated on the Environmental Assessment Review form. Should you have any questions or need additional information, please contact me at your earliest convenience.

Sincerely,

A handwritten signature in black ink, appearing to read 'Corina Cox'.

Corina Cox
Economic Development Coordinator

Enclosures

cc: James Thompson, City Treasurer

**NORTHWEST KANSAS PLANNING AND DEVELOPMENT COMMISSION
ENVIRONMENTAL ASSESSMENT REVIEW**

REQUEST FOR ACTION ON GRANT REVIEW

DATE: July 19, 2006

Agency Name:

Kansas Geological Survey
University of Kansas
1930 Constant Avenue, Campus West
Lawrence, KS 66047

Impact Categories:

Geological and other applicable

Applicant's Name and Address:

City of Bogue
P.O. Box 68
Bogue, KS 67625

Project Title:

Water Distribution System Improvements

Project Number:

#2460

Return No Later Than:

August 19, 2006

Return To:

Corina Cox
Economic Development Coordinator
Northwest Kansas Planning & Development Commission
P.O. Box 248
Hill City, KS 67642

Northwest Kansas Planning and Development Commission have 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 to Northwest Kansas Planning and Development Commission no later than the date specified above.

Comments filed on a proposal may include: (1) The extent to which the project is consistent with or contributes to the fulfillment of your agency planning within the state, region or locality; (2) How the proposal relates to state, regional or local objectives; and (3) The effect of the proposal on your agency's activities.

_____ Not Applicable to this project

_____ Project is in Compliance*

_____ Compliance Review Required

_____ Permits Required*

_____ Conditions and/or Mitigation Actions Required*

COMMENTS:

Reviewer's Signature and Title

PRELIMINARY ENGINEER'S ESTIMATE

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PROJECT LOCATION: BOGUE KANSAS

TYPE OF PROJECT: WATER DISTRIBUTION SYSTEM IMPROVEMENTS

ESTIMATE NO.: 2

PROJECT NO.: 05-053

SCOPE: REPLACE AND UPGRADE THE EXISTING POTABLE WATER DISTRIBUTION
SYSTEM THROUGHOUT THE CITY IN ORDER TO MEET DOMESTIC WATER
REQUIREMENTS AND ELIMINATE SUBSTANTIAL MAINTENANCE REPAIR
COSTS.

ITEM NO.	DESCRIPTION	UNIT	QUANTITY	UNIT COST	EXTENSION
1	4" PVC PIPE (SDR/18)	L.F.	5690.0	\$ 9.80	\$ 55762.00
2	6" PVC PIPE (SDR/18)	L.F.	1970.0	14.00	27580.00
3	4"x 4" PVC CROSS	EACH	1.0	540.00	540.00
4	6"x 6" PVC CROSS	EACH	1.0	650.00	650.00
5	4"x 4"x 4" PVC TEE	EACH	7.0	580.00	4060.00
6	6"x 6"x 6" PVC TEE	EACH	4.0	485.00	1940.00
7	4" PVC 90' BEND	EACH	6.0	540.00	3240.00
8	6"x 4" PVC REDUCER	EACH	9.0	220.00	1980.00
9	4" PVC PLUG	EACH	2.0	170.00	340.00
10	4" GATE VALVE & BOX	EACH	7.0	650.00	4550.00
11	6" GATE VALVE & BOX	EACH	4.0	850.00	3400.00
12	BLD CONNECT & METER	EACH	106.0	1170.00	124020.00
13	FIRE HYDRANT ASSEMBLY	EACH	13.0	2480.00	32240.00
14	PAVEMENT REPAIR	S.Y.	730.0	11.40	8322.00

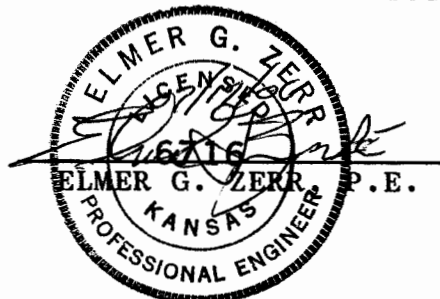
CONSTRUCTION SUBTOTAL = \$ 268624.00

DESIGN ENGINEERING = \$ 22600.00

CONSTRUCTION ENGINEERING = \$ 21200.00

ADMINISTRATION - LEGAL - FEES = \$ 35900.00

TOTAL PROJECT COST = \$ 348324.00



02/12/06

- Fire Hydrants
- Gate Valves
- Water Main

BOGUE
GRAHAM CO. KANSAS

Well 101
Cast 1415

Well #2
* 6" on Main St
* 4" on Street

102-Connections

Black Old Cast Mains & later extensions
* Stab line to Old Cheese Plant (Cast 4") 1972
+ 2" Cast Extension 1975

2" PUE 1975-1990
X Old 1" Gaswired?

Formed

1415



Hydrant



SEE SEPARATE LEGEND FOR
CENSUS BOUNDARY SYMBOLS,
& TYPE STYLES,
AND GEOGRAPHIC AREAS
FIPS State/County codes
201065
1990 Census District Office Number
101000