

KANSAS GEOLOGICAL SURVEY

1930 Constant Ave., Campus West
The University of Kansas
Lawrence, Kansas 66047-3726
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Proposed Project for Application to the Kansas Department of Health and Environment for the Kansas Public Water Supply Loan Fund

Applicant: City of Clay Center
New Water Supply Treatment Facility, Project No. 2479

Contact Person: Terry Haas, Senior Consultant
Address: Ranson Financial L.L.C.
209 E. William St, #401
Wichita, KS 67202-4026

Sent to the Kansas Geological Survey for environmental review.

Agency Review Comments:

It is assumed that the concentrate from the water treatment facility that is to be discharged to the Republican River will meet the water-quality regulations of the Kansas Department of Health and Environment. In general, the long-term benefits of the improvements of the new water supply treatment facility 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

9/22/06
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.

Date: July 25, 2006

To:

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

RE:
Public Utilities Commission
Clay Center, Kansas 67432
Project Number: 2479

The Public Utilities Commission is preparing an application to the Kansas Department of Health and Environment for a loan from the Kansas Water Supply Loan Fund for new water treatment facilities.

The location of the project will be in the City of Clay Center, Kansas, which is located in Clay County. The superintendent of the Public Utilities Commission is Bill Callaway; his telephone number is 785-632-2137

A narrative description of the project is as follows:

The Public Utilities Commission of Clay Center is building new water treatment facilities. These facilities will satisfy water quality and water treatment standards, using nano-filtration reverse osmosis (RO) with green-sand manganese removal bypass stream. There are no known utilities on the proposed plant site. It will be necessary to install transmission mains to connect all of the wells and convey water to the treatment plant and distribution mains to distribute water back to the Public Utilities Commission's water system. Concentrate discharge from the treatment process will be piped to the Republican River via gravity storm water sewer. The storm water sewer will have 3,200 linear feet of 12-14 inch pipe and the sanitary sewer will have 800 linear feet of 8-inch gravity or 4-inch force main. The transmission mains will have 10,552 feet of DIP, Pressure Class 250 pipe and the distribution mains will have 1,580 feet of the same pipe.

Please note that the general location map and proposed sanitary and storm sewers from the treatment plant maps are attached.

The summary of the total cost is as follows:

- | | |
|-----------------------------------|-------------|
| 1. Acquisition | |
| 2. Construction | \$7,297,003 |
| 3. Architectural/Engineering Fees | \$ 760,322 |

4. Inspection	
5. Legal Expenses	\$ 9,125
6. Initial O & M	\$ 300,900
7. Miscellaneous	
8. Administrative Expenses	
9. Subtotal	\$8,066,450
10. Less local cash	
11. Total Loan/Grant Needed	\$8,066,450

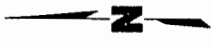
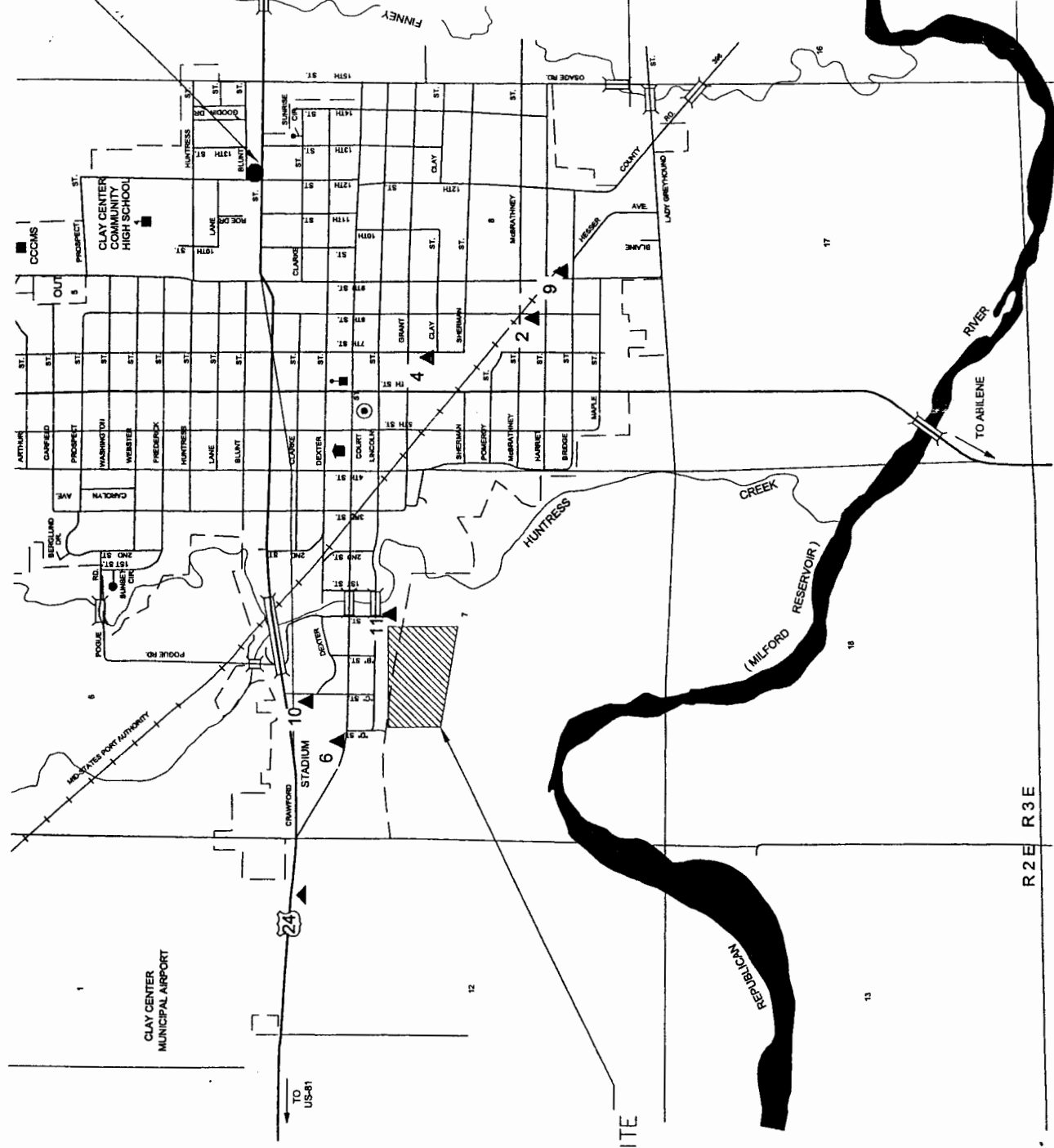
We would appreciate your review of the project description and location, and any comments you may have, within 30 days.

Please contact me, Terry Haas at 316-264-3400, should you have any questions.

Thank you,

Terry Haas
Senior Consultant
Ranson Financial L.L.C.

*209 E. William St., #401
Wichita, KS 67202-4026*



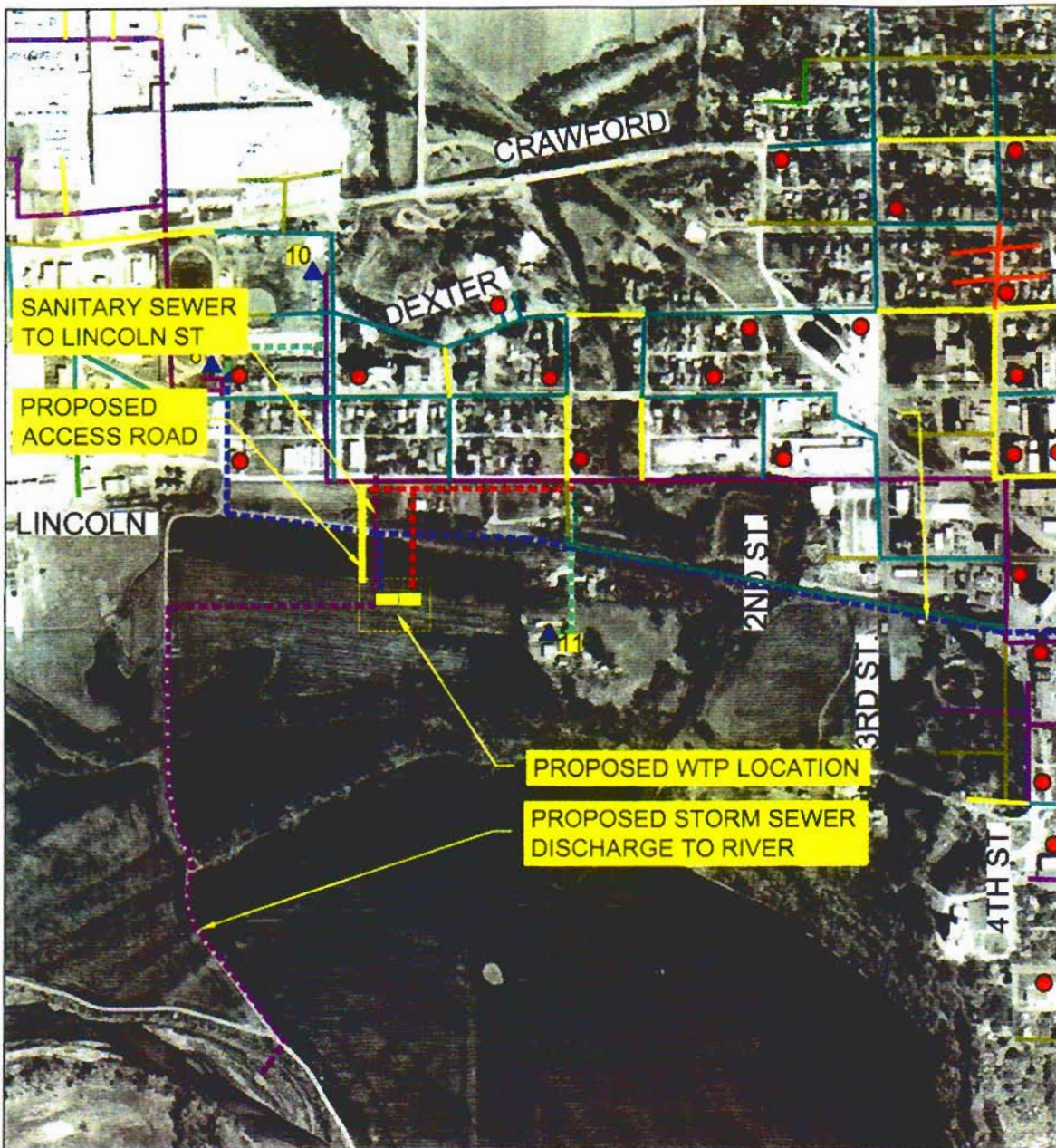
NOT TO SCALE

PROPOSED WATER
TREATMENT PLANT SITE

PROJECT: 2004-1430
DRAWN BY: OMK
DATE: 08/02/05

GENERAL LOCATION MAP CLAY CENTER, KANSAS

BOYLE ENGINEER
consulting engineer



LEGEND

PROPOSED SYSTEM		APPROXIMATE QUANTITY
	16" FROM WELLS TO PROPOSED PLANT	6,200 LF
	10" FROM WELLS TO PROPOSED PLANT	3,900 LF
	8" FROM WELLS TO PROPOSED PLANT	900 LF
	16" FROM PLANT TO DIST. SYSTEM - CATEGORY I	1,400 LF
	12" FROM PLANT TO DIST. SYSTEM - CATEGORY I	300 LF
	ACCESS ROAD	
EXISTING SYSTEM		
	WELL	
	2 INCH PVC	
	<2 INCH CI	
	2 INCH CI	
	4 INCH CI	
	FIRE HYDRANT	
	6 INCH CI	
	8 INCH CI	
	10 INCH CI	
	12 INCH CI	

PROJECT: 2004-1430

DRAWN BY: REE

DATE: 08/09/05

PROPOSED SANITARY & STORM SEWERS
FROM THE TREATMENT PLANT
CLAY CENTER, KS



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BOYLE ENGINEERING CORPORATION
consulting engineers / architects

FIGURE
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