

February 18, 2008

Ryan E. Sims, I.E.
Professional Engineering Consultants, P.A.
303 S. Topeka
Wichita, Kansas 67202

Re: N Main St Water Main - City of Newton, KS
PEC Project No. 35-07673-0158

Dear Mr. Sims:

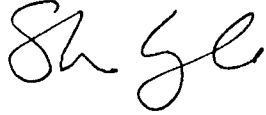
The Kansas Geological Survey (KGS) has received Professional Engineering Consultants (PEC) January 24, 2008, request for comments on behalf of the City of Newton. Newton is preparing a grant application to the Kansas Department of Health and Environment to upgrade the city's water distribution system. The grant will finance, in part, the installation of a 12 in. water main along N Main St between 13th St and the Union Pacific Railroad. The project is located in the SE ¼ of Section 8, T23S, R1E in Newton, KS.

A review of regional geologic information along with the project summary and site maps provided by PEC indicates that there are no unduly adverse geologic conditions that should affect this project. However, WWC-5 water well records indicate that there are two environmental sites along with their associated monitoring wells in the project corridor near 13th and Main and 17th and Main. Depending on the proximity of these sites to the alignment, trenching activity sometimes may either encounter off-site contaminant migration or monitoring wells. Monitoring wells are usually installed in road right-of-way easements or on private property, but exact locations cannot be verified from WWC-5 records. Clearance of the project should not be delayed, but the applicant should be aware of the proximity of the sites and monitoring wells so they can be addressed if they are encountered during construction.

This letter is an assessment based on the regional geologic conditions available at the KGS at the time of writing and cannot be used in substitute of a detailed site characterization. Other geologic conditions, not discussed herein, or for which the KGS has no knowledge, may affect the viability or safe operation of this facility or property. It is the responsibility of the applicant to provide any necessary characterization, geotechnical or environmental testing, or design by a licensed professional geologist or engineer to complete the project.

Ryan E. Sims, I.E.
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N Main St Water Main - City of Newton, KS
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Sincerely,

A handwritten signature in black ink, appearing to read "Sh Lyle". The signature is fluid and cursive, with the first name "Sh" and last name "Lyle" clearly distinguishable.

Shane Lyle, RG
Geology Extension Coordinator

Enclosures

cc: Dan Suchy, KGS Data Resources Library



State of Kansas Geographic Information Systems Policy Board, Data Access and Support Center, and the Kansas Geological Survey

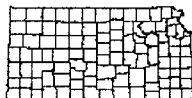


Please email questions and comments to Asif Iqbal

WWC5 Well viewer

Section Township Range Range Direction

Overview Map



Legend

- ☐ Single well
- ☒ Multiple wells
- Yield (in gpm)
 - ☒ between 0.00 and 5.00
 - ☒ between 5.00 and 10.00
 - ☒ between 10.00 and 35.00
 - ☐ unknown Yield
- ☐ Township Boundary
- ☐ PLSS
- ☐ Roads
- ☐ Railroads
- ☐ County Boundary

Remove monitoring/engineering wells ☐

Color wells based on ☒ Estimated yield ☐ Well Depth ☐ Static water level

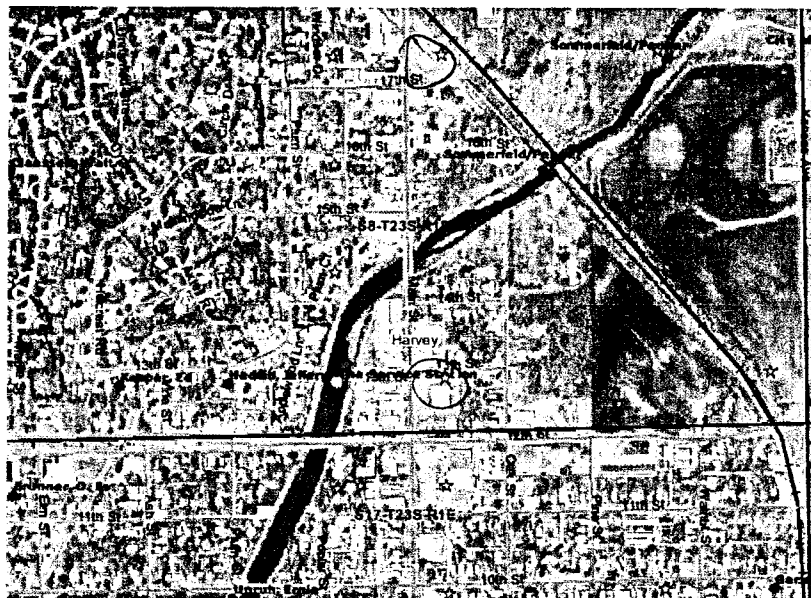
Choose Labelling on zoom-in ☒ Owner Name ☐ Well Depth/Estimated yield ☐ Static water level

Zoom Level: ☒ Zoom In ☐ Zoom Out ☐ Pan ☐ Identify

Table of Contents

Visible

- ☒ Township Boundary
- ☒ PLSS
- ☒ Roads
- ☒ Railroads
- ☐ Zip Code
- ☐ Rivers and Streams
- ☐ Major Streams
- ☐ City Boundary
- ☒ County Boundary
- ☒ View Aerials 2002
- ☐ View Aerials 1991
- ☐ View Topo



The following form may be used by the Review Agency/Commission for comments in response to the request for clearance from the proposed Public Water Supply Loan Fund Project.

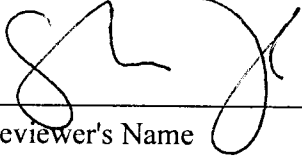
☐ Army Corps of Engineers
☐ Kansas Biological Survey
☐ State Conservation Commission
☐ Kansas Corporation Commission
☐ Division of Water Resources/Kansas Department of Agriculture
☐ Kansas Geological Survey
☐ Kansas State Historical Society, State Historic Preservation Office
☐ Kansas Water Office
☐ Kansas Department of Wildlife and Parks
☐ US Dept. of Agriculture - Natural Resources Conservation Service
☐ Kansas Department of Health and Environment
☐ US Department of the Interior - Fish and Wildlife Service

Agency Review Comments: (to be completed by reviewing agency and returned to applicant contact person at name and address shown below)

Comments: see LDT

Recommended Action: (to be completed by the reviewing agency and returned to applicant contact person at name and address shown below.)

☐ 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.

 KGS 2-18-08
Reviewer's Name Division/Agency/Commission Date

Project Title: Public Water Supply Loan Fund Application

Applicant: City of Newton, KS
Contact Person: Suzanne Loomis, P.E.
Address: 201 E. 6th, P.O. Box 426
City, State: Newton, KS Zip: 67114-2215 Phone: 316-284-6020



Professional Engineering Consultants, P.A.

January 24, 2008

Kansas Geological Survey
University of Kansas
1930 Constant Ave. - Campus West
Lawrence, KS 66047-3724

Reference: City of Newton, Kansas
Newton North Main Street Water Main
Kansas Public Water Supply Loan Fund
KPWSLF No. 2509
PEC Project No. 35-07673-0158

To Whom It May Concern:

The City of Newton is preparing an application to the Kansas Department of Health and Environment for a loan from the Kansas Public Water Supply Loan Fund for the referenced project. These improvements include the design and construction of a 12" water main to replace the existing 6" water main along North Main St., from 13th St. North to the North right-of-way line of the Union Pacific Railroad. The improvements are located in the SE/4 of Section 8, Township 23 S, Range 1 E (see attached map). All improvements will be made within existing easements and/or right-of-way.

The total combined project estimate for these improvements is \$750,000.00.

We would appreciate your review of the project description and location, and any comments you may have, within 30 days. A project review form is enclosed for your use.

Please contact the undersigned at 316.262.2691 if you have any questions.

Very truly yours,

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.

Ryan E. Sims, I.E.
Design Engineer

RES/tac

Encl: As noted

cc: Ms. Suzanne Loomis, P.E., Public Works Director/ City Engineer, City of Newton (w/o encl.)

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■

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■

WICHITA
TOPEKA
TULSA
LAWRENCE
PITTSBURG

Environmental Assessment
For the
Newton North Main Street Water Main
KPWSLF Project No. 2509
PEC Project No. 35-07673-158

1.0 Purpose and Need for Project

1.1 Project Description:

This project includes the design and construction of a new 12” waterline to replace the existing 6” waterline along North Main Street. This project is located in Newton, KS along Main Street, from 13th Street North to the North right-of-way line of the Union Pacific Railroad. (The Southeast Quarter of Section 8, Township 23 South, Range 1 East)

The project consists of over 2,400 linear feet of 12” waterline by directional drill that must be constructed along with the necessary hydrants, valves, and reconnections.

1.2 Purpose and Need of the Project:

The purpose and need for the above referenced project is to improve the reliability as well as ensure adequate pressure of the water supply for the City of Newton and its community. The existing waterline along Main Street, from 13th Street North to the Union Pacific Railroad, is only a 6” waterline, and it needs to be upgraded to a larger size to accommodate the increased flow from future developments and increases in population. The new waterline will ensure the surrounding area has adequate flow and pressures.

2.0 Alternatives to the Project:

There are limited alternatives to providing the City of Newton with adequate water supply. The only alternative would be to open cut the waterline in lieu of directional drilling. This would involve redirecting the route of water thru Sand Creek in order to create an open trench thru the riverbed. This would have to be done simultaneously with the Sand Creek Restoration project to ensure a proper sequence of construction of Sand Creek at the same time. Due to the maintenance and feasibility of construction, the options for providing water are currently limited by the City to the options presented above.

3.0 Affected Environment / Environmental Consequences:

3.1 Land Use / Important Farmland / Formally Classified Lands:

No prime farmland, land use or classified lands would be altered or removed from production of the recommended project.

3.2 Floodplains:

No floodplains would be altered or removed because of the recommended project.

3.3 Wetlands:

No known wetlands would be affected by the recommended project.

3.4 Cultural Resources:

No known cultural resources would be affected by the recommended project.

3.5 Biological Resources:

No known biological resources would be affected by the recommended project.

3.6 Water Quality Issues:

No long-term adverse impacts to local water supply, surface waters, groundwater or aquatic environment are anticipated from implementing the recommended project. Short-term impacts include reduced water pressure to users in the impacted construction area during construction of the water mains. After the construction phases are complete and restoration measures are in place, the water quality would return shortly to pre-construction conditions.

3.7 Endangered or Threatened Species:

No known endangered or threatened species would be affected by the recommended project.

3.8 Air Quality:

The recommended project would have minimal air quality impacts to the Newton community. Short-term impacts would occur during the construction phase of the project and include an increase in emissions by

heavy construction equipment and dust emissions during trenching operations. The prompt re-vegetation of bare soils would reduce air quality concerns and the loss of surface soils.

4.0 Summary:

In summary, the project consists of the design and construction of a new 12" waterline to replace the existing waterline along North Main Street, from 13th Street North to the North right-of-way line of the Union Pacific Railroad. The waterline will be constructed by the directional drill method. The recommended procedures will improve the reliability, as well as ensure adequate pressure of the water supply for the City of Newton and its community.

5.0 Exhibits / Maps

Attached is a map showing the location and alignment of the proposed waterline improvements, as well as a cost estimate.

Engineer's Estimate

[illegible]

north main waterline



LEGEND

- EXISTING 6" WATERLINE
- PROPOSED 12" WATERLINE
- ⋈ EXISTING VALVE
- ⋈ PROPOSED VALVE
- METER VAULT
- FIRE HYDRANT
- ⋈ FIRE HYDRANT



No.	Revision	By	Date
CITY OF NEWTON HARVEY COUNTY, KANSAS KEY MAP AND GENERAL NOTES NORTH MAIN STREET WATER MAIN Professional Engineering Consultants, P.A. 303 S. TOPEKA • WICHITA, KANSAS 67202 316-262-2691 • FAX 316-262-3003			
Designed by	MDK	Job No.	35-07673-0158
Drawn by	RFT	Date	Sht. _ of _