

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 & Parks
☐ US Dept of Agriculture - Natural Resources Conservation Service
☐ Kansas Department of Health and Environment
☐ US Dept 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: The proposed lining of cell 1 should decrease the seepage into the underlying ground water. Although seepage will occur under cell 2, the net seepage from the two cells should be less than before because cell 2 will only receive the excess flow from cell 1.

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, by the applicant (in the application) address or clarify the questions or concerns indicated above.)

Donald Whittemore
Reviewer's Name

K.S. Geol. Surv.
Division/Agency/Commission

3/31/03
Date

Project Title: Public Water Supply Loan Fund Application

Applicant: City of Englewood

Contact Person: Grant Service Center, LLP

Address: 2710 North Stoney Point

City, State: Wichita, KS **Zip:** 67205 **Phone:** () - -

GRANT SERVICE CENTER, LLP

March 25, 2003

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

Re: City of Englewood
KDHE, Kansas Water Pollution Control Revolving Fund;
Kansas Permit No. M-C105-NO01

Dear Sir or Madam:

The City of Englewood is preparing an application to the Kansas Department of Health and Environment (KDHE) for a loan from the Kansas Water Pollution Control Revolving Fund for the referenced project. The proposed action is to provide a treatment system that meets the needs of the City of Englewood and which will enable the facility to meet the requirements of the current wastewater permit and the minimum standards of design established by KDHE. To further assist in your review of this proposed action, information that specifically addresses the description, cost and exact location of the project has been provided as follows:

☛ **Legal Description:** SE¼, SE¼, SE¼, Section 36, Township 34S, Range 25W Clark County, Kansas

☛ **Site Map:** Please refer to the site map that has been enclosed.

☛ **Project Description:** The recommended treatment facility improvements proposed will include a plastic liner be installed in Cell 1 to prevent the loss of water due to seepage. This will allow the normal biological treatment process to occur and prevent the cause of malodors. The first cell will operate at a constant water depth of five-feet. Any flow in excess of that which evaporates will overflow into Cell 2, where it will be disposed of by evaporation and seepage. Cell 2 will operate between the depths of 0-inch and 20-inches depending on the month of the year. Accordingly, the following data illustrates the operation of the facility with the recommended improvements:

☛ The total retention time in Cell 1 at a daily flow of 5,850 gpd is: $1,285,000 \text{ gal} \div 5850 = 220 \text{ days}$

☛ The treatment area provided is $205 - \text{feet} \times 205 - \text{feet} \div 43,560 \text{ ft}^2/\text{ac} = 0.96 \text{ ac}$

☛ The BOD surface loading rate is: $90 \text{ PE} \times 0.17 \text{ \#BOD/PE} \div 0.96 \text{ ac} = 1.59 \text{ \#BOD/ac}$

March 25, 2003

☛ **Project Cost:** The following cost estimate assumes the lagoon site is cleared and graded by the City.

HDPE Membrane Liner, Gas vent system, In Place	\$30,500.00
Fencing and Gates (1000' @ \$7.50/ft)	<u>\$ 7,500.00</u>
Estimated Construction Cost	\$38,000.00
Engineering/Inspection	\$24,723.00
Admin., Legal, Fiscal, Misc., & Contingencies	<u>\$ 5,277.00</u>
 Estimated Total Cost	 \$68,000.00

Please note: Installation of fencing is recommended around the newly-lined lagoon to discourage the entrance of animals.

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 call Grant Service Center, LLP at 316-773-6019 if you have any questions and/or need further information.

Thank you for your time and attention in this matter.

Sincerely,


Meredith Aldren-Cutler

Target is UTM 14 412567E 4099369N - ENGLEWOOD quad [Quad Info]

