

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

David E. Cox, P. E.
Utilities Engineering Manager
City of Olathe
100 East Santa Fe
P.O. Box 768
Olathe, KS 66051-0768

Dear Mr. Cox:

I was asked to comment on the wastewater treatment expansion plans for the City of Olathe. I noticed that the area of the proposed lagoon expansion is situated on silty loam soils. These soils are of moderate permeability and suitable for the lagoons provided that the soil is well compacted or lined. The location of the wastewater lagoon is very near to Cedar Creek. I presume from the limited information provided to me that controls are in place to control overflow from the lagoon to the stream and visa versa. The project is needed and should proceed provided that the question of liners or compaction of the lagoons is addressed and that flooding issues are looked at.

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

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: _____

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.

Margaret A. Townsend KGS 12/21/07
Reviewer's Name Division/Agency/Commission Date

Project Title: Public Water Supply Loan Fund Application

Applicant: City of Olathe, Kansas
Contact Person: David Cox, Utilities Engineering Manager
Address: P.O. Box 768
City, State: Olathe Zip: KS Phone: 66051-0768



November 1, 2007

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

Re: City of Olathe, Kansas
Kansas Water Pollution Control Revolving Loan Fund
City of Olathe Project No. 1-C-004-07
Cedar Creek Wastewater Treatment Plant Expansion

To Whom It May Concern:

The City of Olathe, Kansas is preparing an application to the Kansas Department of Health and Environment for a loan from the Kansas Water Pollution Control Revolving Loan Fund for the above referenced project.

The project includes the following:

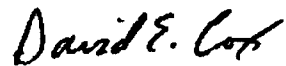
- The project will construct wastewater treatment process trains which will provide for biological nutrient removal. Presently, the treatment plant is capable of complete nitrification, but future permit limits will require both nitrate and phosphorus removal.
- It is the City's intent to have the recommended conceptual design memo completed by spring 2008. The engineering and construction costs for the improvements are estimated to be \$42,000,000.
- All improvements associated with the plant expansion will be located on existing City of Olathe property and within the perimeter of the earthen berm that will protect the structure from 100 year return frequency flood events. The plant and construction project is located at 36169 West 119th Street; NW ¼ Section 20, Township 13S, Range 23E, at latitude 38° 54'40" and longitude 94° 54'40", Johnson County, Kansas.

Site plans reflecting the proposed construction are attached. An environmental investigation was previously completed prior to the construction of the earthen berm, and there were no environmental issues noted at that time.

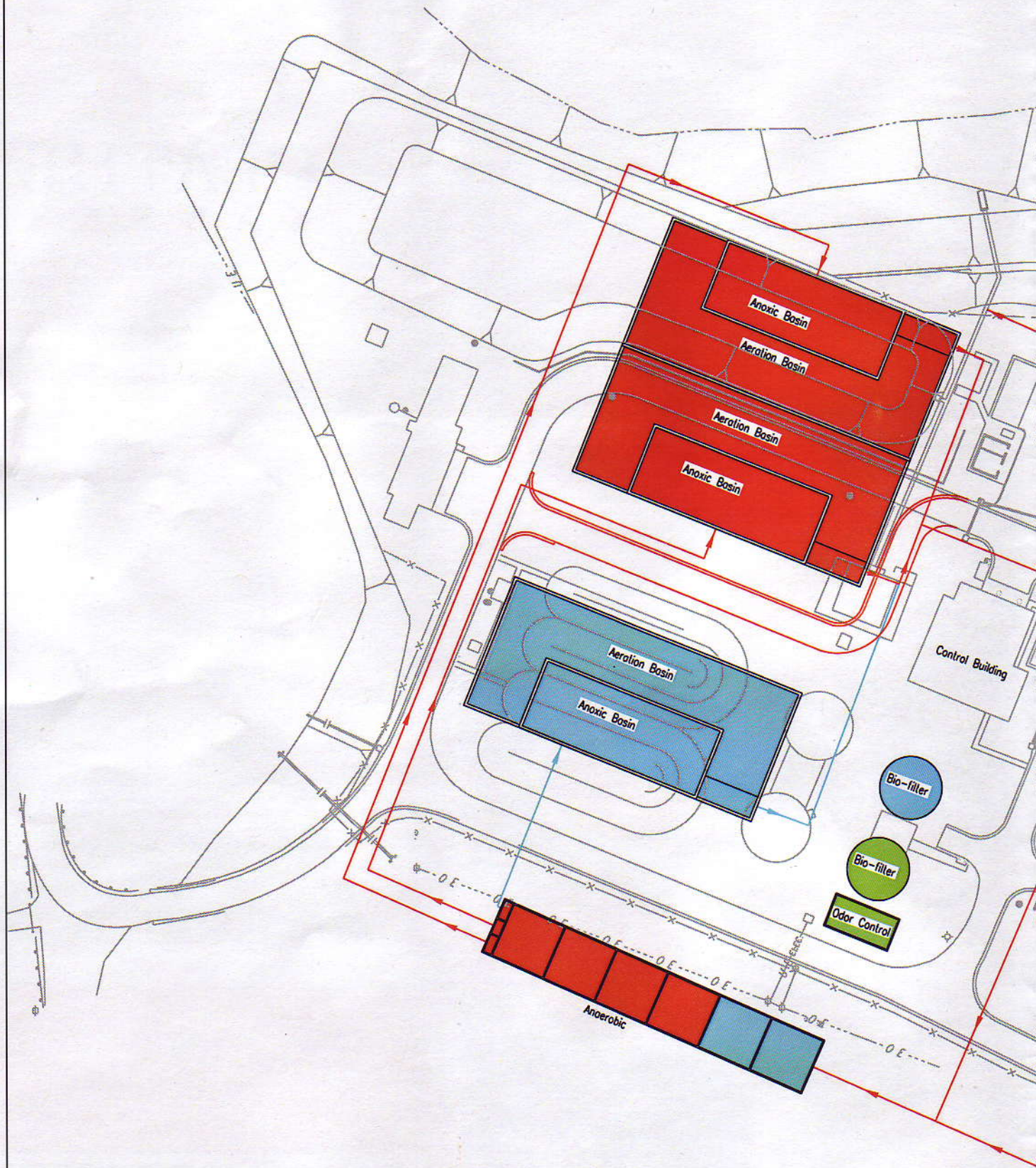
We would appreciate your review of the project description and location, and any comments you may have, within 30 days from the date of this letter.

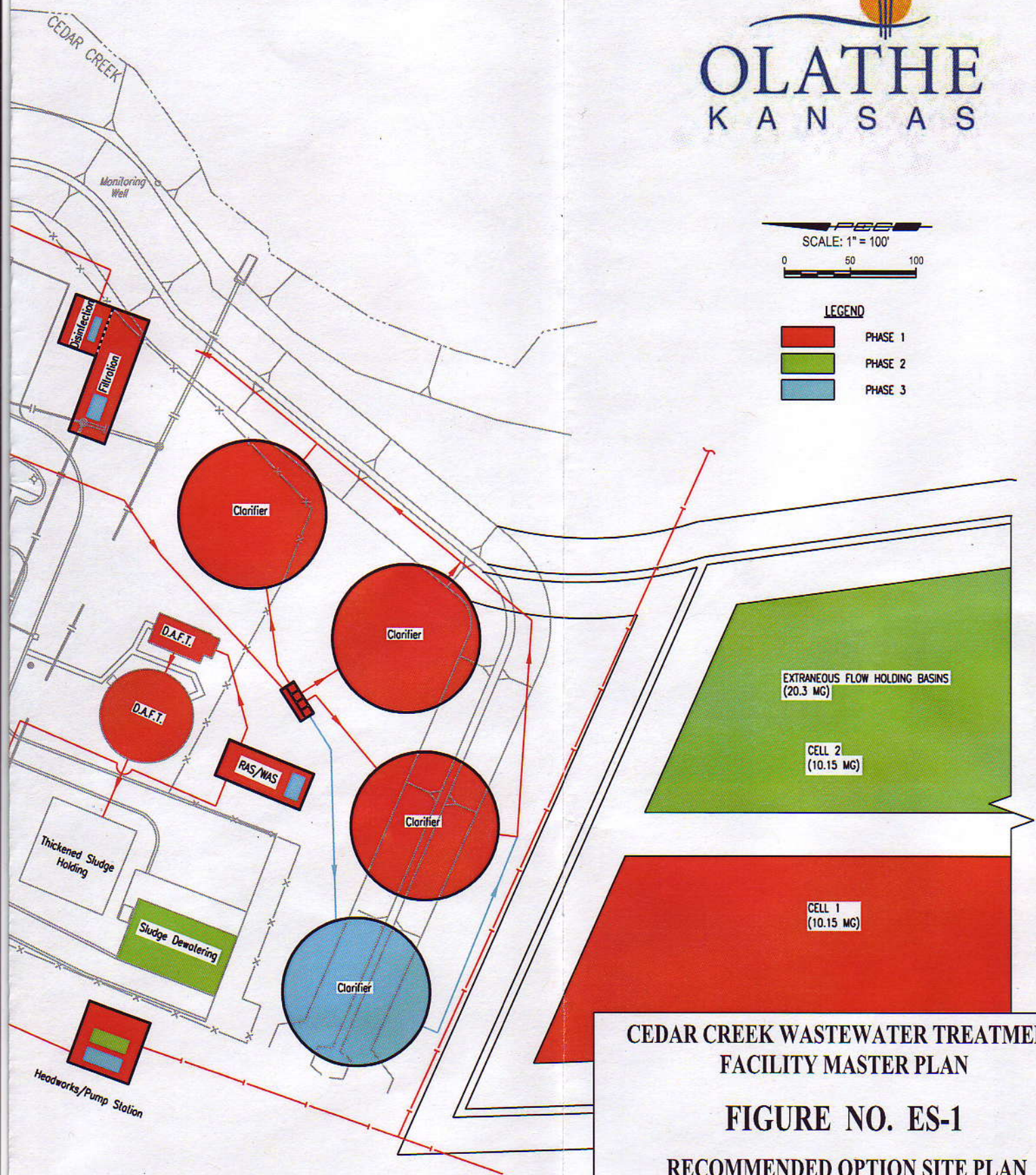
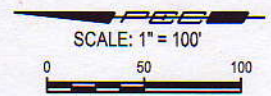
Please contact me at (913) 971-9056 or via email at dcox@olatheks.org should you have any questions.

Sincerely,

A handwritten signature in black ink that reads "David E. Cox". The signature is written in a cursive style with a large, stylized 'D' and 'C'.

David E. Cox, P.E.
Utilities Engineering Manager
City of Olathe





**CEDAR CREEK WASTEWATER TREATMENT
FACILITY MASTER PLAN**

FIGURE NO. ES-1

RECOMMENDED OPTION SITE PLAN