



K A N S A S

RODERICK L. BREMBY, SECRETARY

DEPARTMENT OF HEALTH AND ENVIRONMENT

KATHLEEN SEBELIUS, GOVERNOR

KANSAS WATER POLLUTION CONTROL REVOLVING LOAN FUND PROGRAM FINDING OF NO SIGNIFICANT IMPACT

JUL 28 2005

TO: All Interested Government Agencies and Public Groups

In accordance with procedures for implementing the Kansas Water Pollution Control Revolving Loan Fund Act (K.S.A. 65-3321 to 65-3329, K.A.R. 28-16-110 to 28-16-138 effective May 29, 1989 and 28-16-137 amended December 26, 1989, and the Kansas Environmental Review Procedure for the Kansas Water Pollution Control Revolving Loan Program dated February 1989) an environmental review has been performed on the proposed agency action below:

Project Name: Jefferson Co. Sewer District No. 2

Project No.: C20 1388 01

Estimated Total Project Amount: \$359,000

Estimated Loan Amount: \$347,000

This project includes the replacement of a failing activated sludge mechanical wastewater treatment plant with a new three-cell continuously discharging wastewater stabilization lagoon system, 120 gpm pumping station and 4-inch force main.

Project Description, Location and Purpose

Jefferson County Sewer District Number 2 is located in west central Jefferson County approximately one mile southwest of Ozawkie and serves the Indian Ridge residential subdivision. The Indian Ridge subdivision is presently served by a central collection system and treatment facility. The treatment facility consists of a mechanical treatment plant, including a manufactured "Oxigest" extended aeration activated sludge treatment unit and chlorine contact basin, with a NPDES permit to discharge treated effluent to Perry Lake in the Kansas River Basin. The present treatment facility does not consistently provide adequate treatment and has periodically failed to meet the effluent limitations in the NPDES permit. This project will result in the construction of a new three cell continuously discharging wastewater stabilization lagoon system with a combined water surface area of approximately 2.19 acres, 120 gpm influent pumping station and approximately 5,400 linear feet of 4-inch force main to provide adequate treatment and reserve capacity for future growth. The proposed wastewater lagoons will be located approximately 3/4 mile west of the Indian Ridge Subdivision.

DIVISION OF ENVIRONMENT
Bureau of Water, Municipal Programs
1000 SW Jackson, Suite 420
Fax Number: (785) 296-0086

CURTIS STATE OFFICE BLDG.,
Voice (785) 296-5528

Topeka, KS. 66612-1367
<http://www.kdhe.state.ks.us>

The proposed treatment plant improvements are designed based on an average design flow rate of 16,000 gallons per day and a future 20-year design population equivalent of 180. Proposed treatment system improvements include the construction of three new wastewater lagoon cells, low permeability soil liner construction, force main construction, wastewater transfer structures and piping, erosion protection, sanitary sewer pumping station installation, sanitary sewer manhole and collection system piping rehabilitation, fencing and related site work. The new pumping station and force main will transport flow to the new lagoon system. All aspects of the project are eligible for loan assistance, with the exception of the purchase of land and easements.

The primary environmental impacts of the project include noise of heavy construction, slight erosion of exposed soil, alteration of existing land forms at the construction site and elimination of inadequately treated discharges under present water quality standards. The proposed lagoon site is not located in a sensitive groundwater area as listed in the "Kansas sensitive groundwater areas for wastewater lagoons." The proposed lagoons will be constructed in accordance with KDHE Minimum Standards of Design for Water Pollution Control Facilities. No adverse impacts on groundwater are anticipated as the new lagoon cell liners will be compacted and sealed to provide a maximum seepage of 0.01 inches per day.

The project will have no known adverse impact on rare or endangered species, sensitive ecosystems, unique environmental features, critical archeological or historic sites, parks, wetlands, groundwater quality, open space and recreation opportunities or air quality. No relocation of residences or other buildings will be required.

Steps taken to minimize environmental impacts include implementation of erosion and sediment control measures and proper storage and disposal of construction materials. Land, materials, fuel and other forms of energy utilized in construction and operation of the facility will be irretrievably committed to the project.

Intergovernmental review comments were requested from the Kansas Department of Health and Environment, Kansas State Historical Society, Kansas Geological Survey, Kansas Biological Survey, Kansas Department of Agriculture-Division of Water Resources, Kansas Corporation Commission, Kansas Department of Wildlife and Parks, Kansas Water Office, State Conservation Commission, Kansas Department of Transportation, U.S. Fish and Wildlife Service, Natural Resources Conservation Service and the U.S. Army Corps of Engineers. These agencies provided clearance for the project.

A public meeting and a public hearing were held on May 17, 2004. The Jefferson County Commissioners voted to proceed with the proposed wastewater treatment system improvements. Monthly user charges and special assessments will finance operation, maintenance, replacement costs (OM&R) and debt service. The residential sewer service charge is anticipated to increase to \$35.00 per month for 38 service users plus a special assessment of \$18.00 per lot per month for 74 lots to provide adequate revenue for all costs of OM&R and debt retirement for the loan.

After considering both short-term and long-term effects of the project on the environment, it was determined that any short-term adverse impacts during construction will be offset by the long-term benefits derived from the proposed wastewater treatment system improvements. No known endangered or threatened species were identified in the project area. Consequently a preliminary decision has been made that an EIS will not be prepared.

This action is taken on the basis of a careful review of the facility plan, the environmental information document, environmental assessment and other supporting data, which are on file at the State Office. A copy of the environmental assessment is attached. Other information is available for review on request. This agency will not take any administrative action on this project for at least thirty days from the above date. Persons wishing to comment on this Finding of No Significant Impact may submit comments to the Department of Health and Environment during this period to the attention of Rod Geisler, Chief, Municipal Programs.

Sincerely yours,



*Atty
for*

Ronald F. Hammerschmidt, Director
Division of Environment

Attachments

Map
Distribution List
EAD

EXHIBIT C

ENVIRONMENTAL ASSESSMENT DOCUMENT

A. Project Identification:

Applicant: Jefferson County Sewer District No. 2 Project No.: C20 1388 01
Owner: Jefferson County County: Jefferson State: Kansas
Estimated Project Amount: \$359,000 Estimated SRF Loan: \$347,000

B. Community Description:

Location: Jefferson County Sewer District Number 2 is located in west central Jefferson County approximately one mile southwest of Ozawkie and serves the Indian Ridge residential subdivision

Population, Present and Projected, and Design Year: Jefferson County Sewer District No. 2 serves the Indian Ridge subdivision with a current population of approximately 38 residents and 78 lots according to information provided in the Facility Plan Engineering Report, dated May 3, 2004, and prepared for Jefferson County by Kramer Engineering, P.A. Due to the rural location and proximity to arterial traffic ways and metropolitan areas, the population is projected to grow substantially over the next 20 years. The wastewater treatment facility design will meet the needs of a population of 180 as projected for the year 2025.

Current Methods of Waste Treatment: The existing mechanical wastewater treatment plant consists of a manufactured "Oxigest" extended aeration activated sludge treatment unit and chlorine contact basin. The present wastewater treatment system is unable to consistently meet effluent limitations and must be upgraded to provide effluent disinfection. Additionally, the existing facility was constructed in 1968 and would require significant modifications or maintenance upgrades to comply.

C. Project Description:

Purpose: Improvements to the wastewater treatment system will include construction of a new three cell continuously discharging wastewater stabilization lagoon system with a combined water surface area of approximately 2.19 acres, 120 gpm influent pumping station and 4-inch force main to provide adequate treatment and reserve capacity for future growth. Proposed improvements include lagoon cell excavation, low permeability soil liner construction, force main and transfer piping installation, concrete transfer structure construction, erosion protection, sanitary sewer pumping station installation, sanitary sewer manhole and collection system piping rehabilitation, and fencing and related site work.

Design Factors: Minimum 20-year design life, average design flow at 16,000 gallons per day.

Receiving Stream: Perry Lake via unnamed tributary, Kansas River Basin.

D. Alternatives considered:

1. Upgrading existing package treatment plant with fixed activated sludge treatment system.
2. Installation of new activated sludge treatment process "Aero-Mod" plant.
3. Construction of a continuously discharging wastewater stabilization lagoon system.
4. Pump station and force main installation with wastewater treatment by the City of Ozawie.

Reasons for Selection of Proposed: Option 3 was selected as the most environmentally acceptable and cost effective means to provide suitable wastewater treatment to meet KDHE Minimum Design Standards and effluent limitations.

E. Environmental Impact Summary:

1. Construction: Slight wind and water erosion of exposed soils, dust, traffic and noise from heavy construction equipment and slight disruption of normal traffic patterns.
2. Population Impacts: No significant adverse impact on population change is anticipated due to construction of the lagoon system. The three-cell lagoon system will be designed with reserve capacity to treat increased wastewater load for the projected population increase.
3. Land Use and Trends: Land use patterns will not be significantly affected. The lagoon site is presently agricultural land. The conversion of use from farmland to wastewater treatment will comply with the Farmland Protection Policy Act.
4. Environmental: Alteration of existing landforms and slight odors may be noticed from the lagoons primarily during fall and spring turnover. Any large impoundment may attract migratory waterfowl. However, the proposed lagoons should not greatly affect migratory birds in the area. The project will have no known adverse impact on rare or endangered species, sensitive ecosystems, unique environmental features, critical archeological or historic sites, groundwater, open space and recreation opportunities, floodplains, parks, wetlands, or air quality. The proposed lagoons will be constructed in accordance with KDHE Minimum Standards of Design for Water Pollution Control Facilities. No relocation of residences or other buildings will be required.

5. Monthly user charges and special assessments will finance operation, maintenance, and replacement costs (OM&R) and debt service. The residential sewer charge is anticipated to increase to \$35.00 per month per service user plus a special assessment of \$18.00 per lot per month to provide adequate revenue for all costs of OM&R and debt service.
6. Mitigation measures necessary to eliminate adverse environmental effect: Proper grading, drainage and slope protection to minimize erosion.
7. Irreversible and irretrievable commitment of resources: Materials used in construction of permanent structures, piping, fuel and other forms of energy will be consumed during construction.

F. Measure taken to ensure Environmental Soundness:

1. Public Involvement: A public meeting and a public hearing were held on May 17, 2004 to discuss need for the project, user charges and environmental impacts.
2. Public Opposition or Opinions: No public opposition to the project was voiced during the hearing.
3. Coordination and Documentation with Other Agencies and Special Interest Groups
 - a. Facility Plan Engineering Report, dated May 3, 2004, and Construction Plans, Specifications and Contract Documents dated April 1 2005, prepared by Kramer Engineering, P.A..
 - b. Federal
 1. U.S. Fish and Wildlife Service
 2. U.S. Corps of Engineers
 - c. State
 1. Kansas Department of Health & Environment
 2. Kansas Department of Wildlife and Parks
 3. Kansas Historical Society
 4. Kansas Department of Agriculture/Division of Water Resources
 5. Kansas Water Office
 6. State Conservation Commission
 7. Kansas Corporation Commission

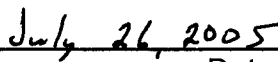
8. Kansas Biological Survey
9. Kansas Geological Survey
10. Natural Resources Conservation Service
11. Kansas Department of Transportation

d. Consulting Engineers: Kramer Engineering, P.A.

- G. Positive Environmental Effects to be realized from the Proposed Project: Improved treatment of wastewater and the elimination of a wastewater discharge that does not consistently meet the present Surface Water Quality Standards.
- H. Reasons for concluding there will be no significant impacts: Population densities and land use patterns will not be adversely affected; no wetlands or other sensitive environmental areas will be affected.



Reviewing Engineer



Date

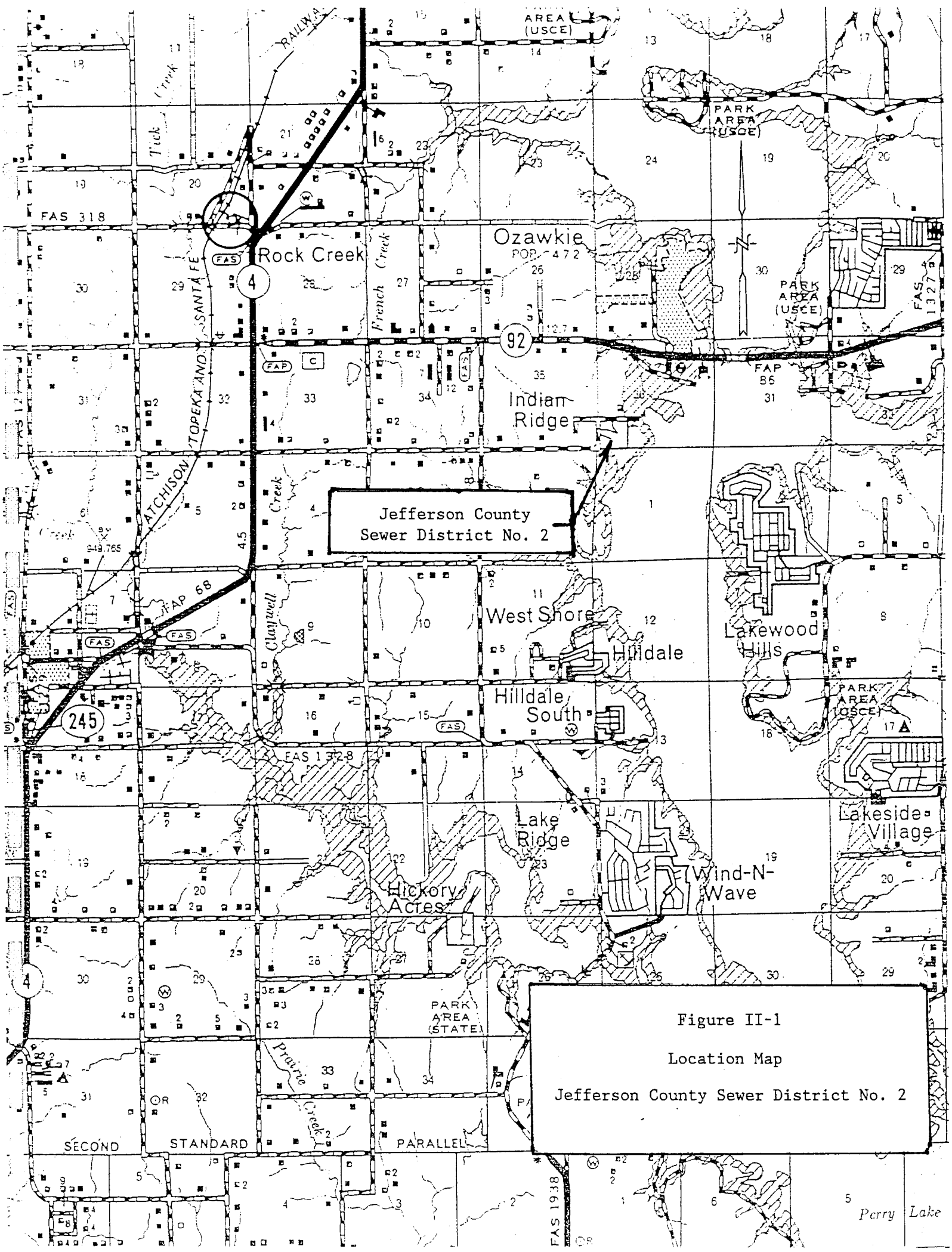


FIGURE VII-2

PROPOSED LAGOON SITE

OZAWKIE

K-92

K-92

PROPOSED
LAGOON
SITE

NEW FORCE
MAIN

NEW PUMP
STATION

INDIAN RIDGE
SUBDIVISION

94TH STREET

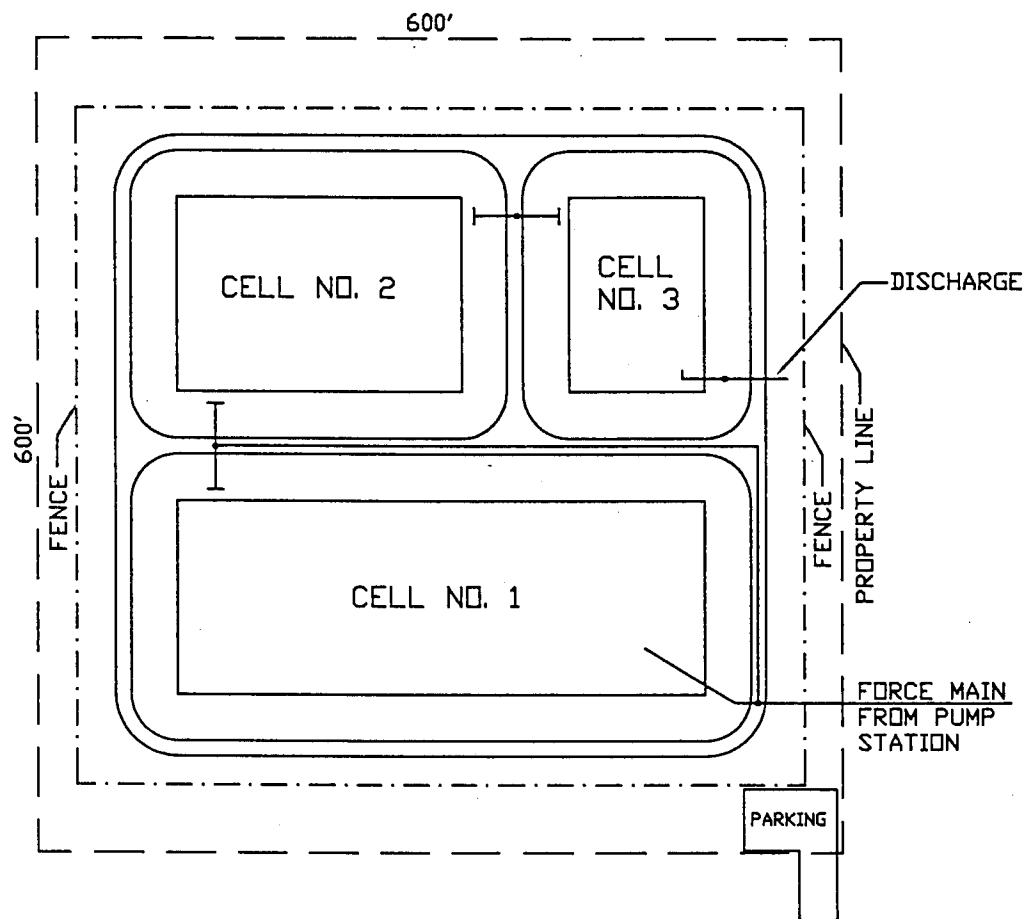
PERRY
RESEVOIR

NO SCALE

NORTH

FIGURE VII-3

DISCHARGING WASTE STABILIZATION PONDS



SURFACE AREAS

CELL NO. 1 = 1.31 ACRES
CELL NO. 2 = 0.56 ACRES
CELL NO. 3 = 0.32 ACRES

DISTRIBUTION LIST
JEFFERSON CO. SD NO. 2,
JEFFERSON CO., KANSAS WASTEWATER IMPROVEMENTS
FINDING OF NO SIGNIFICANT IMPACT

Kansas Dept. of Wildlife & Parks
Environmental Services Section
512 SE 25th Avenue
Pratt, Kansas 67124-8174

State Conservationist
Natural Resources Conservation Service
760 South Broadway
Salina, Kansas 67401

Executive Director
Kansas State Historical Society
6425 SW 6th Ave
Topeka, Kansas 66615

Kansas Geological Survey
Margaret Townsend
University of Kansas
1930 Constant Ave - Campus West
Lawrence, Kansas 66047

Kansas Biological Survey
University of Kansas
2041 Constant Ave
Lawrence, Kansas 66047-2906

U.S. Army Corps of Engineers
700 Federal Building
601 E. 1st Street
Kansas City, Missouri 64106

Environmental Protection Agency
Region VII
NPDES & Facilities Management
901 N. 5th Street
Kansas City, Kansas 66101

Kansas Water Office
901 S. Kansas Avenue
Topeka, Kansas 66612

Kansas Dept. of Agriculture
Division of Water Resources
109 S.W. 9th Street
Topeka, Kansas 66612

State Conservation Commission
109 S.W. 9th Street
Topeka, Kansas 66612

U.S. Dept. of the Interior
Fish & Wildlife Service
Kansas State Office
315 Houston, Suite E
Manhattan, Kansas 66502

Kansas Corporation Commission
130 S. Market - 2nd Floor
Wichita, Kansas 67202

Environmental Protection Agency
Office of Federal Activities
Ariel Rios (2252A)
1200 Pennsylvania Ave. N.W.
Washington, D.C. 20004

Board of County Commissioners
Jefferson County Sewer District No. 2
c/o Jefferson County Health Department
1212 Walnut, US hwy 59
Oskaloosa, Kansas 66066-4200

Kramer Engineering, P.A.
2348 SW Topeka Blvd
Topeka, Kansas 66611

The Oskaloosa Independent
607 Delaware
P.O. Box 278
Oskaloosa, Kansas 66090