



State Revolving Fund Loan Programs Drinking Water, Wastewater, Nonpoint Source

ENVIRONMENTAL ASSESSMENT AND FINDING OF NO SIGNIFICANT IMPACT

CATARACT LAKE WATER CORPORATION NEW TANK; NEW WELL #3; REHABILITATE WELL #2 STATE REVOLVING FUND PROJECT #09 42 67 01

DATE: April 30, 2010

TARGET PROJECT APPROVAL DATE: May 31, 2010

I. INTRODUCTION

The above entity has applied to the Drinking Water State Revolving Fund (DWSRF) Loan Program for a loan to finance all or part of the drinking water project described in the accompanying Environmental Assessment (EA). As part of facilities planning requirements, an environmental review has been completed which addresses the project's impacts on the natural and human environment. This review is summarized in the attached EA, which can also be viewed at <http://www.in.gov/ifa/srf/>.

II. PRELIMINARY FINDING OF NO SIGNIFICANT IMPACT (FNSI)

The DWSRF has evaluated all pertinent environmental information regarding the proposed project and determined that an Environmental Impact Statement is not necessary. Subject to responses received during the 30-day public comment period, and pursuant to Indiana Code 4-4-11, it is our preliminary finding that the construction and operation of the proposed facilities will result in no significant adverse environmental impact. In the absence of significant comments, the attached EA shall serve as the final environmental document.

III. COMMENTS

All interested parties may comment upon the EA/FNSI. Comments must be received at the address below by the deadline date above. Significant comments may prompt a reevaluation of the preliminary FNSI; if appropriate, a new FNSI will be issued for another 30-day public comment period. A final decision to proceed, or not to proceed, with the proposed project shall be effected by finalizing, or not finalizing, the FNSI as appropriate. Comments regarding this document should be sent within 30 days to:

Max Henschen
Senior Environmental Manager
State Revolving Fund
100 N. Senate Ave. IGCN 1275
Indianapolis, IN 46204
317-232-8623; mhensche at ifa.in.gov

ENVIRONMENTAL ASSESSMENT

I. PROJECT IDENTIFICATION

Project Name and Address:	New Storage Tank; New Well #3; & Rehabilitate Well #2 Cataract Lake Water Corporation P.O. Box 624 Cloverdale, IN 46120
SRF Project Number:	DW 09 42 67 01
Authorized Representative:	Roy Booher, Vice President

II. PROJECT LOCATION

The Cataract Lake Water Corporation is a not-for-profit utility serving southern Putnam County, northern Owen County and eastern Clay County. The site of the new elevated water tank is in Putnam County in the NE ¼ of Section 5, Township 12 North, Range 4 West in the Cloverdale USGS quadrangle; see Figure 1. The new well will be sited at the existing well field in Owen County in the SW ¼ of Section 30, Township 12, Range 4 West in the Poland USGS quadrangle; see Figure 2.

III. PROJECT NEED AND PURPOSE

Storage: The existing 50,000 gallon water storage tank was built in 1938 and is in poor condition. Based on current water demands and “Recommended Standards for Water Works”, the tank needs to be replaced because it is undersized and has exceeded its useful life.

Supply: Well #2 has a current pumping capacity of 260 gpm. This well needs to be rehabilitated so that the Water Corporation can meet its current water demand without running the wells 24 hours a day. A new third well needs to be installed as a back-up well to meet the water demand if one or both of the two main wells become inoperable.

IV. PROJECT DESCRIPTION

The project includes: (1) Rehabilitating Well #2 with a new 400 gallon per minute (GPM) Vertical Turbine Pump with new motor and electrical components; (2) Installing new Well #3 with a 600 GPM Vertical Turbine Pump & well house at the existing well field; and (3)

Constructing a 150,000 gallon elevated storage tank and removal of the old 50,000 gallon elevated tank.

V. ESTIMATED PROJECT COSTS, AFFORDABILITY AND FUNDING

A. Selected Plan Estimated Cost Summary

Construction Costs:

Well #3 Drilling and Development	\$	40,000
Two Vertical Turbine Pumps		15,000
New Well house		30,000
Piping Valves and Meters		22,000
Electrical Improvements		25,000
Site Grading, Seeding, Access Drive		8,000
SCADA (Supervisory Control & Data Acquisition)		15,000
Elevated Tank Site Work		10,000
New Elevated Tank		530,000
Tank Supply Piping, Valves		15,000
Existing Tank Demolition		<u>25,000</u>
Construction subtotal	\$	735,000
Contingency		<u>44,500</u>
Construction Cost	\$	779,500

Non-Construction Costs

Bond, Legal, and Rate Consultants	\$	57,000
Design and Construction Engineering		61,500
Land and Rights-of-Way Acquisition		<u>2,000</u>
Non-Construction Cost	\$	120,500

Total Estimated Project Cost \$ 900,000

- B. The Cataract Lake Water Corporation will borrow approximately \$900,000 from the State Revolving Fund (SRF) Loan Program at an interest rate to be determined at loan closing. Monthly user rates and charges may need to be analyzed to determine if adjustments are required for loan repayment.

VI. DESCRIPTION OF EVALUATED ALTERNATIVES

The no-action alternative would not address the water tank or water supply needs and was rejected in favor of the selected plan to build a new water tank, install a new well and rehabilitate an existing well.

VII. ENVIRONMENTAL IMPACTS OF THE FEASIBLE ALTERNATIVES

A. Direct Impacts of Construction and Operation

Undisturbed/Disturbed Land: Well #3 construction will take place in the existing well field on land which has been significantly disturbed by previous well, water main and structure construction. The new tank will be sited on row-crop farmland. An archaeological survey of the tank site did not find sites or artifacts.

Structural Resources (see figures 3 & 4): The projects will not affect historic sites or districts. If any visual or audible impacts to historic sites occur, they will be temporary and will not alter the characteristics that qualify historic properties for inclusion in or eligibility for the State or National registers. The SRF's finding pursuant to Section 106 of the National Historic Preservation Act is: "no historic properties affected."

Surface Waters, Wetlands, 100-Year Floodplain: The projects will not affect wetlands or surface waters and are not in a 100-year floodplain.

Groundwater: The proposed projects will not affect a sole source aquifer or other groundwater resources.

Plants and Animals: The proposed projects will not affect endangered plants or animals or wooded areas.

Prime Farmland: The new tank will convert prime farmland.

Air Quality: Air quality will be temporarily impacted by construction activities, including vehicle exhaust and dust.

Open Space and Recreational Opportunities: The proposed projects will neither create nor destroy open space and recreational opportunities.

The proposed projects will not affect National Natural Landmarks.

B. Indirect Impacts

The Corporation's Preliminary Engineering Report (PER) states: *The Cataract lake Water Corporation will ensure, through local zoning laws or other means that future development, as well as future supply, storage and distribution or treatment works projects connecting to SRF-funded facilities will not adversely impact wetlands, archaeological/, historic/structural resources, or other sensitive environmental resources. The Corporation will require new development and treatment works projects be constructed within the guidelines of the US Fish and Wildlife service, IDNR, IDEM and other environmental review authorities.*

C. Comments from Environmental Review Authorities

This document is the first notice to the U.S. Fish and Wildlife Service and the IDNR Environmental Unit.

The Natural Resources Conservation Service, in correspondence dated January 28, 2010, noted that the new tank construction will convert 1.3 acres of prime/unique farmland; the new well and well house will not affect prime/unique farmland.

The State Historic Preservation Office, in correspondence dated April 16 2010, stated: *Based on our analysis, it has been determined that no historic properties will be altered, demolished, or removed by the proposed project. We concur with the archaeological report that no currently known archeological resources eligible for including the National Register of Historic Places have been recorded within the proposed project area. No further archeological investigations appear necessary. If any archaeological artifacts, features, or human remains are uncovered during construction, state law (Indiana Code 14-21-1-27 & 29) requires that the discovery must be reported to the Department of Natural Resources within two (2) business days.*

VIII. MITIGATION MEASURES

The Corporation's PER states: *The design plans and construction will implement various mitigation measures to minimize or eliminate environmental impacts such as siltation, erosion, air quality, or disturbance of wetlands or wooded areas. Such measures will include the use of silt fence and seed blankets for erosion control, the use of fast drying paint to minimize the release of airborne particles, and restricting construction operation to normal business hours to recue noise pollution. Upon completion of construction operations, no long term mitigation measures will be necessary.*

IX. PUBLIC PARTICIPATION

A properly noticed Public Hearing was held on March 26, 2009 at 7:00 pm at the Cunot Community Center, 5530 SR 42. No written comments were received during the 5-day comment period following the public hearing.

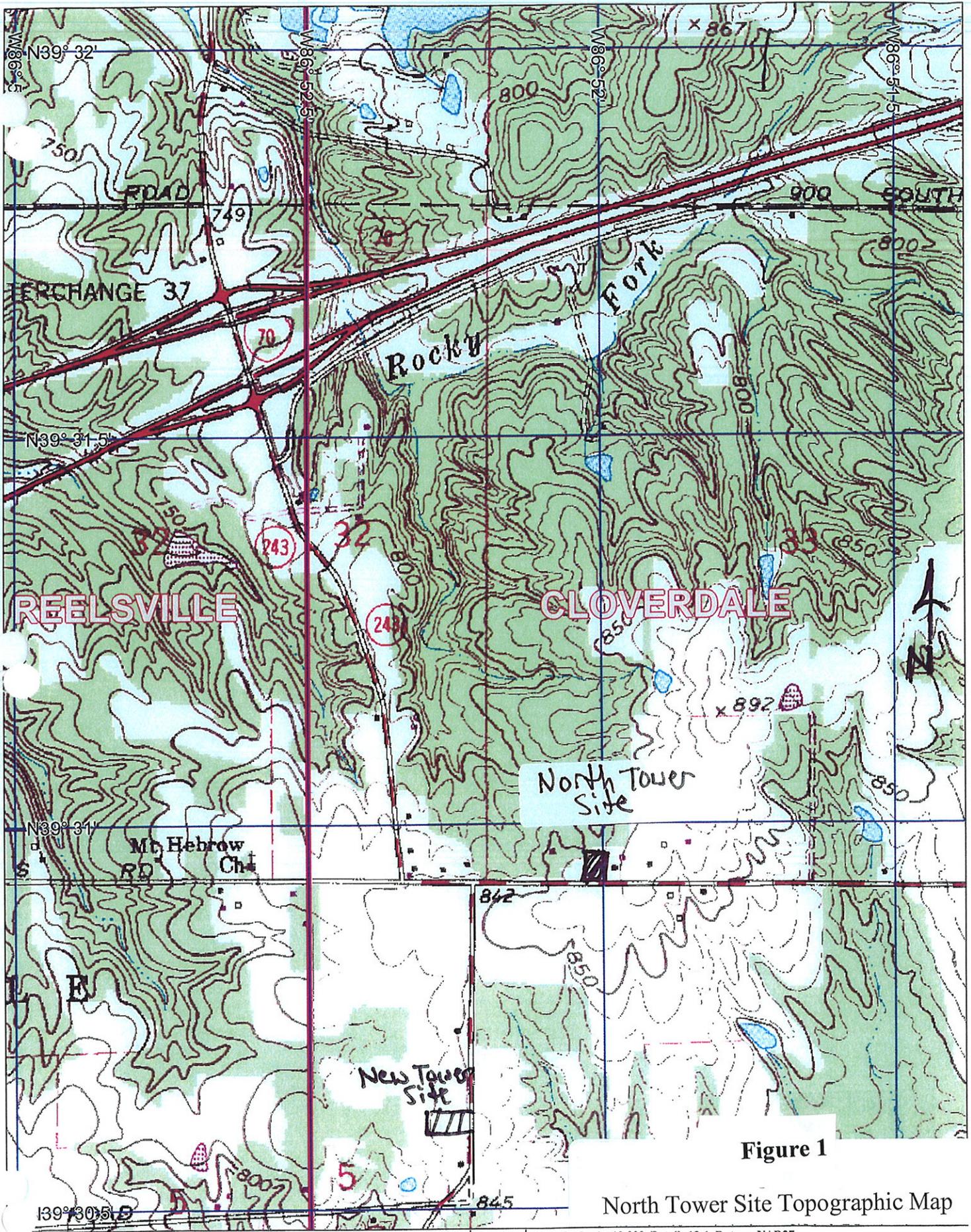
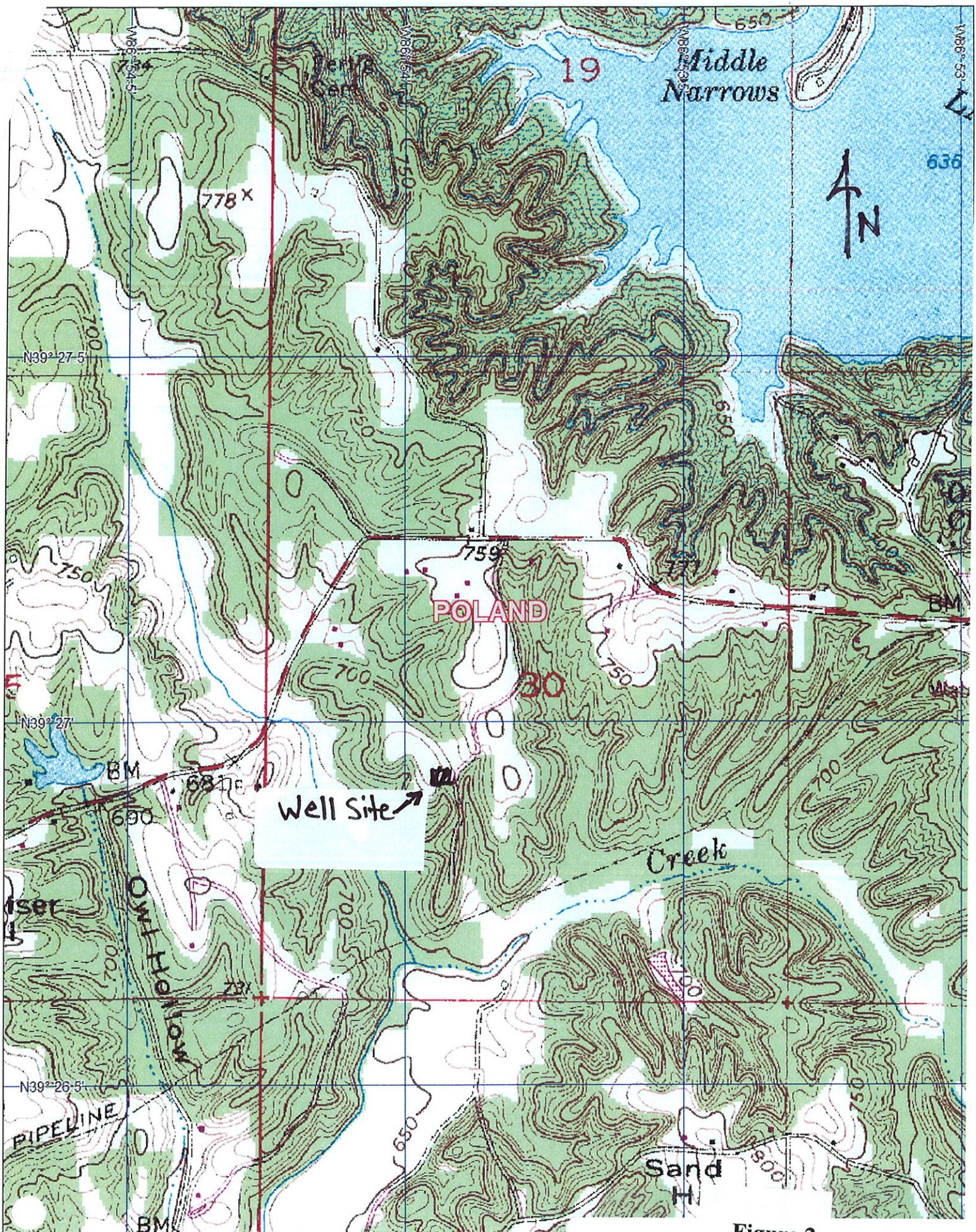


Figure 1

North Tower Site Topographic Map

revised Feb 2010



3-D TopoQuads Copyright © 1999 DeLorme Yarmouth, ME 04096 Source Data: USGS 350 ft Scale: 1:12,800

revised Feb 2010

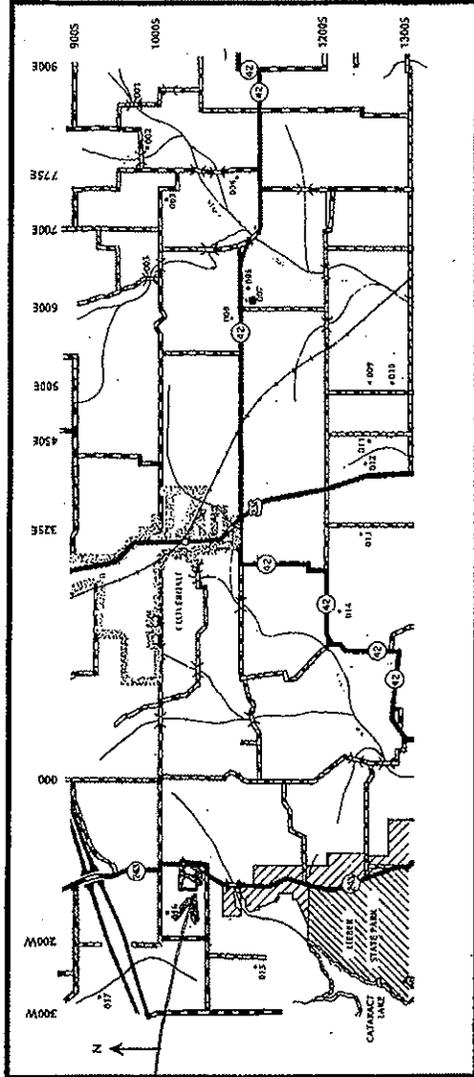
Figure 2

Well Site Topographic Map

CLOVERDALE TOWNSHIP [60001-017]

New Elevated
Tank Site

- 001 O IRON BRIDGE, 875 E; Warren Through Truss, c.1900; Engineering, Transportation (189)
- 002 N HOUSE, 975 S; Gothic Revival/Italianate, c.1870; Architecture (189)
- 003 N HOUSE, 1000 S; Greek Revival/Eastlake, c.1860; Architecture (189)
- 004 N HOUSE, 775 E; Greek Revival, c.1850; Architecture (189)
- 005 C IRON BRIDGE, 1000 S; Pratt Pony Truss, c.1900; Engineering, Transportation (189)
- 006 C C. JOB LOG HOUSE, 1100 S; Pioneer, c.1870; Architecture, Settlement, Vernacular/Construction (526)
- 007 N SMYRNA CHURCH, 600 E; Carpenter-Builder, c.1880; Architecture, Religion (526)
- 008 C LOG HOUSE, 1100 S; Pioneer, c.1880; Architecture, Vernacular/Construction (189)
- 009 C LOG HOUSE, 500 E; Pioneer, c.1840; Architecture, Vernacular/Construction (101)
- 010 C HOUSE, 500 E; Carpenter-Builder, c.1870; Architecture (101)



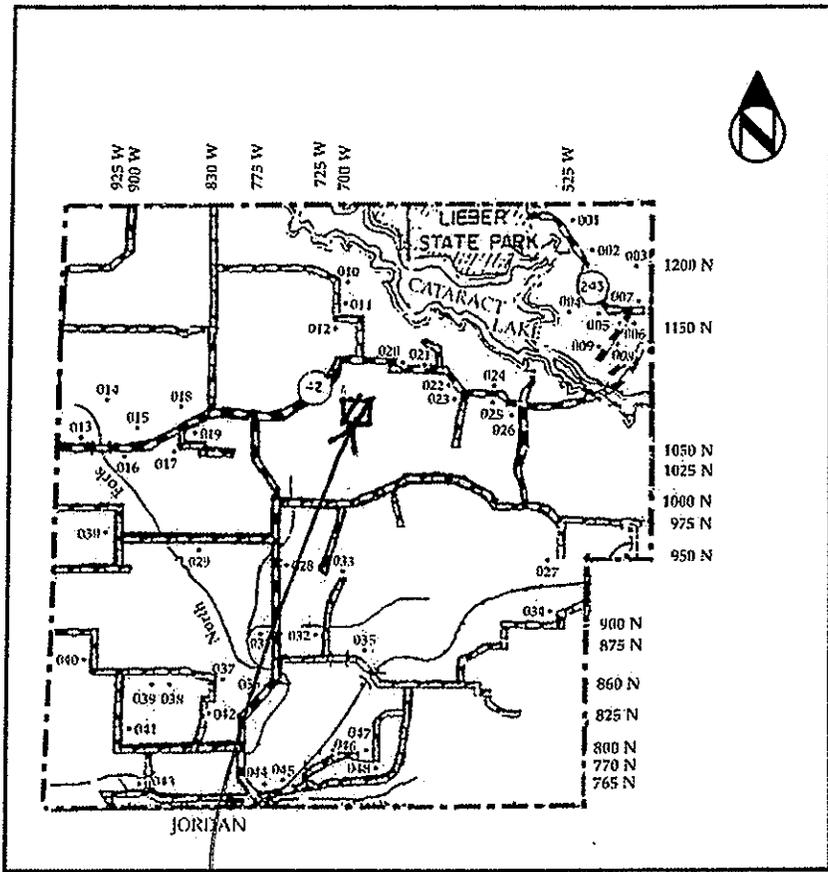
- 011 C HOUSE, 450 E; Carpenter-Builder, c.1880; Architecture (101)
- 012 O ISAAC SINCLAIR HOUSE, State Road 43; Federal/Creek Revival, 1841; Architecture, Exploration/Settlement (101)
- 013 C H. MCCOY HOUSE, 325 E; Carpenter-Builder, c.1870; Architecture (101)
- 014 C HOUSE, 1200 S; Carpenter-Builder/Eastlake, c.1880; Architecture (101)
- 015 N B. KUNKEL LOG HOUSE, 225W; Pioneer, c.1840; Architecture, Exploration/Settlement, Vernacular/Construction (530)
- 016 N SCHOOLHOUSE NO. 6, 1000 S; Carpenter-Builder, c.1870; Architecture, Education (530)
- 017 N O. ALBRIGHT LOG HOUSE, 200 W; Pioneer, c.1830; Architecture, Exploration/Settlement, Vernacular/Construction (530)



012

Figure 3 from Putnam Co. Interim Report
Historic Sites & Structures Inventory

Owen County Interim Report Jackson Township (15001-048)



Well Site

Figure 4 from Owen Co. Interim Report
Historic Sites & Structures Inventory

Jackson Township is located in the northwest corner of Owen County. It was formed in 1842 from a section of neighboring Jefferson Township. The township's terrain is rugged and heavily forested, limiting its agricultural and industrial development.

Valentine Croy came to the northeast corner of the township in 1846 and erected a flour mill two years later. Croy is also credited with building the township's first frame house in 1841 as well as being the first burial in the Cunot Cemetery (15004). Croy's mill was in operation until 1852 when it was replaced by John Croy's four-story mill. The mill was a local landmark and was patronized by settlers from Owen, Clay and Putnam counties.

Because the township's terrain was not conducive for agriculture, settlement was slow and few villages were established. Cunot, located in the northeast corner of the township is its only remaining village. Originally known as Needmore, the town developed as a commercial center, midway between Poland in Clay County and Cloverdale in Putnam County. The name was changed to Cunot when the town applied for a post office. Today, a cemetery (15004) and the Christian Union Church (15005) serve as reminders of this early community.

Because of the area's abundant supply of timber, a number of early hewn log structures remain. A rare example of a hewn log single-crib barn is found on State Road 243 (15003). The Chambers House (15007) and the Spelbring House (15013) are typical examples of the single-pen house. The house on State Road 243 (15002) illustrates the hall-and-parlor house and the house on 700 West (15011) is a good example of the double-pen house. All these structures are of hewn log construction and date from the township's settlement period.

The establishment of the Lieber State Recreation Area has had a dramatic impact on Jackson