

REFERENCE NO. 45

EPA DI

CITY OF DICKSON

202 S. MAIN STREET
Water Department
DICKSON, TENNESSEE 37055

May 19, 1992

DYNAMAC CORP.
Ms. Charlotte M. Boulind
Peachtree Center Tower
230 Peachtree Street, N. W.
Suite 500
Atlanta, Georgia 30303

RE: Your letter of May 8, 1992 - Work Assignment #C04119
Document Control # C04119-SIP-LC-089

Dear Ms. Boulind:

As per your request, I am returning the two Quad sheets, marked with the pertinent water lines and City of Dickson sources. All water lines were not marked, due to the map scale. We are enclosing our "wall map" on a 1:600 ft. scale which does depict all City of Dickson treated water distribution lines.

In answering your questions, the following information is submitted:

1. The City of Dickson's average raw water pumpage is 1.1 MGD from all raw water sources. Peak pumpage is presently about 1.5 MGD on isolated days. We manage the raw water sources to retain the City Lake at a level not to exceed 2 ft below the spillway overflow. Capacities are as follows:
 - A. Piney River intake:
 - safe yield - 4.4 MGD
 - present pumpage capacity - 2.1 MGD
 - B. DK-17 Well
 - specific yield - 225 GPM.
 - pump design - 160 GPM
 - total depth - 400 ft (below land surface)
 - pump setting - 173 ft (below land surface)
 - C. DK-21 Well
 - specific yield - 350 GPM
 - pump design - 350 GPM
 - total depth - 180 ft (below land surface)
 - pump setting - 131 ft (below land surface)
 - D. City Lake Intake
 - safe continuous yield - 0.7 MGD
 - present pumpage capacity - 2.1 MGD

2. The Piney River source is utilized as a sole source, primarily between June 1 to December 1 of each year. This may vary by 30 days each way, depending on rainfall. From December 1 to June 1, the City Lake is used as a primary source, and supplemented by DK-21 well from April 1 to June 1, (raw water to plant is mixed). When mixed, the Lake supply is approximately 0.90 MGD with DK-21 supplying 0.25 MGD. DK-17 well produces large quantities of sand, which has caused shaft bearing failures. We have not utilized DK-17 for some three (3) years
3. The City of Dickson, by contractual agreement purchase exactly 250,000 gallons per day of treated water from Turnbull Utility District. This contract was established in 1964 to allow a financial base for Turnbull Utility District to borrow funds from the Farmers Home Administration and to establish the utility district. Over the years, the Turnbull source has proven effective as an emergency supply. When needed, Turnbull Utility District can supply as much as 1.0 MGD to the City of Dickson of treated water, on a continuous basis.
4. The number of water connections is 3640, as of April 30, 1992. Primarily, each connection is a household or apartment. There are however, some housing units of varying sizes on a single connection. For approximation, of the above number, 30 connections could possibly serve 300 separate apartments.
5. The City of Dickson sells treated water to the West Piney Utility District to the south of the City (approximately 3.5 million gallons per month, and to the Sylvania-Tennessee City-Pond Utility District to the northwest of the City (approximately 5.0 million gallons per month).
6. Other utilities in Dickson County, other than those mentioned above are: Harpeth Utility District (serving Charlotte and northeast Dickson county area - spring as a source of supply, supplemented with purchased water from Turnbull Utility District); White Bluff Utility District (serving the town of White Bluff and areas north of the town - all water purchased from Turnbull Utility District); Town of Vanleer (serving the town of Vanleer and areas around the town - source is a spring - Distribution lines are linked to the Sylvania-Tennessee City-Pond Utility District for emergency supply.

7. To my knowledge since 1975, there have been no contamination problems in any of the Dickson sources.

If you require any explanation or further information, please contact me at the above address or at (615) 441-9502.

Sincerely,

T. Larry Gardner

T. Larry Gardner
Superintendent

TLG:mbd

cc:Mayor
Maintenance
Water Plant