

NORTHERN KENTUCKY
WATER DISTRICT

Project
Memorial Parkway Treatment Plant
Advanced Treatment Facility

Campbell County
184-0456

CERTIFIED STATEMENTS

Affidavit

Franchises

Plan Review and Permit Status

Easements and Right-of-Way Status

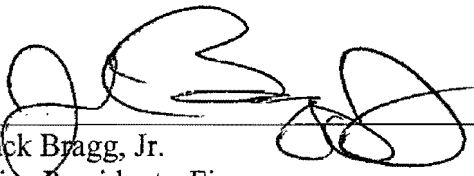
Construction Dates and Proposed Date In Service

Plant Retirements

AFFIDAVIT

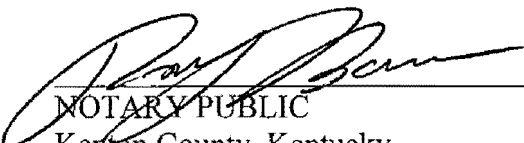
Memorial Parkway Treatment Plant Advanced Treatment Project

Affiant, Jack Bragg, Jr., being the first duly sworn, deposes and says that he is the Vice President of Finance of the Northern Kentucky Water District, which he is the Applicant in the proceeding styled above; that he has read the foregoing "Memorial Parkway Treatment Plant Advanced Treatment Project" Application and knows the contents thereof, and that the same is true of his own knowledge, except as to matters which are therein stated on information or belief, and that as to those matters he believes them to be true.



Jack Bragg, Jr.
Vice President - Finance
Northern Ky. Water District

Subscribed and sworn to before me in said County to be his act and deed by Jack Bragg, Jr., Vice President of Finance of the Northern Kentucky Water District, this 26 day of January 2010.



NOTARY PUBLIC
Kenton County, Kentucky
My commission expires 5/3/2011

Northern Kentucky Water District

Franchises required – None

Plan Review and Permit Status - The District has reviewed and approved the specifications prepared by CH2M Hill and HDR Engineers titled “Advanced Treatment Facility Memorial Parkway Treatment Plant” dated November 2009.

The District received approval from the Division of Water on October 6, 2009 (see attached letter).

Easements and Right-of-Way Status - Easement and Right-of-Way statements are not required.

Start date of construction – May 15, 2010

Proposed date in service – June 1, 2012

Plant retirements – No plant retirements.

Case No. 2010-____
Exhibit _____ B _____

NORTHERN KENTUCKY
WATER DISTRICT

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PLAN REVIEW AND PERMIT STATUS

Approval Letter from Kentucky Division of Water

STEVEN L. BESHEAR
GOVERNOR



LEONARD K. PETERS
SECRETARY

ENERGY AND ENVIRONMENT CABINET
DEPARTMENT FOR ENVIRONMENTAL PROTECTION
DIVISION OF WATER
200 FAIR OAKS LANE, 4TH FLOOR
FRANKFORT, KENTUCKY 40601
www.kentucky.gov

October 6, 2009

Ms. Amy Kramer, PE
Northern KY Water District
700 Alexandria Pike
Fort Thomas, KY 41075

RE: Northern KY Water District
AI # 2485, APE20090010
PWSID # 0590220-09-010
Advanced Treatment Project- FTWTP & MPWTP
Kenton County, KY

Dear Ms. Kramer:

We have reviewed the plans and specifications for the **Memorial Parkway Water Treatment Plant (MPWTP) portion** of the above referenced project. The plans for MPWTP include the construction of a Granular Activated Carbon (GAC) contactor facility and an Ultraviolet Light Treatment facility. These facilities shall include 6 GAC contactor beds (5 functional and 1 empty for future expansion); 4 GAC variable speed feed pumps rated at 7,000 gpm @ 43 ft of TDH; 2 variable speed backwash pumps rated at 11,000 gpm @ 45 ft of TDH, to serve both the GAC and existing sand filters; 2 GAC slurry pumps rated at 120 gpm @ 266.5 ft of TDH; an air blower rated at 1760 scfm for air scour backwash of the GAC contactors; and 2 Medium Pressure High Output UV reactors capable of producing a Validated Dose equal to or greater than 8.5 mJ/cm² at 95% UVT. This is to advise that plans and specifications for the MPTWTP portion of the above referenced project are APPROVED with respect to sanitary features of design, as of this date with the requirements and stipulations below. A separate approval will be issued for the Fort Thomas Water Treatment Plant (FTWTP) portion of the project.

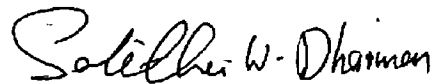
1. Following this project, the rated potable water production and plant classification for MPWTP shall not change.
2. GAC contactors shall comply with all applicable portions of Recommended Standards for Water Works Section 4.2.1.
3. Validation of the UV system is required to receive LT2 credit for Cryptosporidium inactivation. See the US EPA UV Disinfection Guidance Manual, Chapter 5 for details or contact the Division of Water's Compliance and Technical Assistance Branch for further information regarding LT2 credit.
4. Flow rate, UV intensity and lamp status must be routinely monitored.
 - a. Flow to each reactor must be measured either by active flow control with dedicated flow meters and control valves for each reactor or by passive flow distribution where equal flow split is monitored with flow meters (US EPA UV Disinfection Guidance Manual Section 4.1.2).
5. As stated in the DOW letter dated October 30, 2008:
 - a. An SOP regarding the decision to bypass the GAC and UV processes must be developed and implemented;

- b. The Drinking Water Compliance and Technical Assistance Branch (CTAB) must be notified in writing or via e-mail to the DOW Florence Regional office and the CTAB supervisor in Frankfort when these processes are bypassed; and
 - c. The percent of water that bypasses the UV system must be reported monthly. Should this exceed 5%, the UV credit for Cryptosporidium inactivation will not apply.
6. If sanitary features of the approved plans are to be changed during construction, the engineer shall submit the revision to the Division of Water for approval prior to implementation of the modification. Written approval from the Division of Water must be granted prior to on-site work dedicated to the adjustment.
 7. When this project is completed, the owner shall submit a written certification to the Division of Water that the above referenced water facilities have been constructed and tested in accordance with the approved plans.
 8. When this project is completed, the engineer shall submit as-built drawings to the Division of Water which reflect the above construction stipulations as well as any additional changes made during construction.
 9. Unless construction of this project is begun within 1 year from the issuance date of this permit, the permit shall expire. If requested prior to the permit expiration, an official extension from the Division of Water may be granted. If this permit expires, the original plans and specifications may be resubmitted for a new comprehensive review.

Additionally, your application indicates that the MPWTP portion of the project is funded by a Drinking Water State Revolving Fund (SRF) loan. Therefore, this approval is for the technical aspects of this project only. Your application for the SRF loan is currently under review. When it is approved, you will be notified in writing to advertise for bids for construction. Therefore, **you are NOT authorized to advertise for bids at this time.** Should you choose to proceed with the bidding and award a contract prior to DOW approval, this will be at your own risk and payment from the SRF loan is not guaranteed.

If you have any questions concerning this project, please contact Sarah Tucker at (502) 564-3410 ext. 4836.

Sincerely,



Solitha Dharman, PE
Supervisor, Engineering Section
Drinking Water Branch
Division of Water

SWD:SAT

C: HDR/Quest Engineering, Inc.
CH2MHill
Kenton County Health Department
Kentucky Infrastructure Authority
Public Service Commission
Cathy Arnett, SRF & SPAP Section