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PUBLIC SERVICE  
COMMISSION

COMMONWEALTH OF KENTUCKY

BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

APPLICATION OF NORTHERN KENTUCKY )  
WATER DISTRICT FOR A CERTIFICATE OF )  
CONVENIENCE AND NECESSITY FOR THE )  
CONSTRUCTION OF SUB DISTRICT H WATER MAIN )  
EXTENSIONS, FINANCING AND SURCHARGE )

CASE NO. 2010- 00434

PETITION

Northern Kentucky Water District (Northern), by counsel, petitions the Commission for an order authorizing the construction of various water main extensions in an area to be known as Sub District H, financing of the project, approval of a surcharge for the customers to be served by these extensions and approval of the creation of the sub district. The following information is filed in accordance with the Commission's regulations.

1. Northern's office address is 2835 Crescent Spring Rd., Box 18640, Erlanger, KY 41018-0640. Its principal officers are listed in its current Annual Report, which is filed with the Commission as are its prior years Reports.

2. Northern is a non-profit water district organized under Chapter 74 and has no separate articles of incorporation or by-laws.

3. A description of Northern's water system and its property stated at original cost by accounts is contained in its Annual Report, Exhibit E. All required financial schedules and other data are in that exhibit and Exhibits F and G.

4. Northern serves retail customers in Kenton, Campbell and Boone Counties and sells water at wholesale to non-affiliated water distribution systems in Pendleton, Boone and Grant Counties.

5. The proposed project is necessary to provide service to unincorporated areas of Campbell County and to maintain quality water service to the general area of Campbell County. The District seeks an order allowing the formation of the sub district associated with the construction approved in the order. The purpose of the sub district is to aggregate sufficient customers to make the extension of facilities to the residents of the affected areas feasible. There are limited areas in Northern's service area that are unserved. Those areas are widely separated and sparsely populated. The estimated 1,200 households in Campbell County without access to a potable water distribution system are widely dispersed. By combining the proposed areas into sub district H, the District is able to provide water service to high density areas which helps spread the cost among sufficient customers to make the project financially feasible for the District and affordable to the residents. This is the same methodology the District has used for other sub district projects.

The District has always used household density as the primary criterion for the establishment of a sub district. See Exhibit I. In order to maximize the number of customers served with the limited dollars available from all funding sources, the District determines where the highest number of households per mile can be feasibly served. The cost per mile of any extension dictates that the District maximize the number of customers served along each extension. Because of the limited resources available to extend service, the District attempts to get the most value from each dollar spent.

6. The construction is in the public interest and is required to allow Northern to continue to provide adequate service to its customers. The areas included in sub district H are all rural, remote from existing water distribution facilities and have no access to potable water other than cisterns and wells. Given the need to develop financially and technically feasible projects, location of

these residents, the distance between the properties, the sparse number of residents in the affected areas and the demand for safe, affordable, piped water supplies, all of the residents of the proposed sub district are in a similar situation as to geographic characteristics, water supply inadequacy, and need for affordable service. This project will extend 6 inch, 8 inch, and 12 inch water mains to make public water available to 255 residences in rural areas that currently have no access to public water supply. These areas were chosen based on population density. The estimated cost of the total project is \$4,555,860.00. All areas included in the project have similar characteristics of rural location, sparse population density, lack of potable water supply and inability to connect to a water distribution system without the extension of these water lines.

The funds obtained in a number of prior sub districts were predicated on the economic status of the affected areas' residents. The funds in this case are not so encumbered. There is no low/moderate income requirements for the financing of this project, therefore, income levels are not a factor in the selection of geographic areas. There is no low/moderate income funding associated with this project. No customers or areas have been designated a part of this sub district based on income criteria.

7. The project will be financed with a grant approved by the 2010 State of Kentucky Budget in the Infrastructure for Economic Development Fund for Non-coal Producing Counties (HB608) in the amount of \$2,950,000.00. Campbell County Fiscal Court has contributed \$25,000.00 to this project. The remainder of the project cost will be funded by the Northern Kentucky Water District Contribution of \$250,000.00, a hydraulic contribution of \$391,887.00 and a customer contribution of \$933,842.00. See Exhibit D. The customer contribution will be paid back through a maximum monthly surcharge of \$30.00 on the customers' water bills. The Northern Kentucky Water District's contribution, the hydraulic contribution and the customer surcharge will be funded through a Bond Anticipation Note in the year 2010. This project has a total budget of \$4,555,860.00, which includes construction cost,

engineering, materials, and contingencies. See Exhibits A and D. All project costs will be included in NARUC Account 331- Transmission and Distribution Mains. Bidding for the project was advertised September 23, 2010 and bids were opened on October 12, 2010. The bids will expire on January 10, 2011.

8. Easements are being obtained and finalized for the facilities;

9. This service will not compete with any other utility in the area;

10. Based on these facts, Northern believes that it is in the public interest that this certificate be granted.

11. General rates to Northern's customers are not affected by this project. No adjustment of rates is being requested. If approved, the customers in the areas designated as sub district H would pay the District's tariffed rate, plus \$30.00 per month for water service. This \$30.00 surcharge is the same as is typically applied to the District's other sub districts. Because many of these customers are served by wells or cisterns, the \$30.00 per month surcharge is generally less than the cost of water deliveries per month.

In contrast to the relatively inexpensive cost of water service to customers based on the proposed sub district, there is a very large and often prohibitive cost to those residents if the sub district is not approved. The alternative to extending facilities to these residents by virtue of the sub district financing, is the extension of facilities pursuant to the District's main line extension tariff. That tariff allows the District to initiate the extension of mains, but only if the customer pays for 100 feet of the main extension based on the cost of an eight inch main. The cost each customer in the proposed sub district H would be forced to pay is approximately \$5,200. That payment is a lump sum required to be made at the time of application for service. The District believes that such payments are prohibitive for most residents and discourage the extension of potable water service, which has a direct impact on the

public health by depriving unserved rural areas of safe, clean, readily accessible potable water. The general rate customers benefit from the revenue generated by the sub district customers and from the lower debt cost that results from grants and government subsidized loans.

12. The following information is provided in response to 807 KAR 5:001 (8):

a. Articles of Incorporation - None, Northern is a statutorily created water district under KRS Chapter 74.

13. The following information is supplied pursuant to 807 KAR 5:001(9):

a. Facts relied upon to show that the application is in the public interest: see Exhibits A, B, and C.

b. No new franchises are required. Copies of permits, including the DOW permit are attached as Exhibit B;

c. Diagrams of the proposed construction and construction specifications, description of the location, route, description of facilities, manner of construction are all included in the preliminary and final engineering reports attached as Exhibit A.

d. Maps of the area showing the location of the proposed facilities are in Exhibits A and H.

e. The construction costs will be funded from several sources as detailed in Exhibits B and D.

f. Additional operating costs for operation and maintenance are minimal due to the relative size of the project and the type of facilities constructed.

g. Description the facilities and operation of the system is in Exhibit A. A current hydraulic analysis is included in Exhibit A.

14. The following information is provided as required by 807 KAR 5:001 (11):

a. A general description of the property is contained in the Annual Report, Exhibit E.

b. Financing and sources of funds for the project are described in Exhibit D.

c. All funds are to be used for the construction of the proposed water main extensions as described in Exhibits A and D.

d. The property to be constructed is described in Exhibits A and D.

e. The funds are not for refunding or refinancing existing debt.

f. There are no trust deeds or mortgages.

g. No property is to be acquired.

h. No stock has been or will be issued.

i. All existing bonds are listed in Exhibits F and G.

j. All existing notes are listed in Exhibits F and G.

k. All other indebtedness is listed in Exhibits F and G.

l. No dividends have been paid or accrued.

m. A balance sheet and income statement are included in Exhibits F and G.

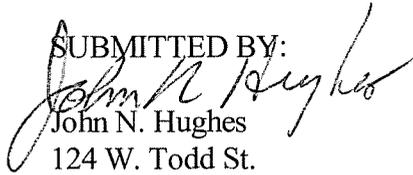
15. Customer notice of the proposed project, proposed tariff and surcharge are attached as Exhibit H.

16. A copy of this petition has been served on the Attorney General.

17. Northern requests that it be granted a deviation under 807 KAR 5:001(14), if necessary to accommodate any situation where inflexible compliance with a regulation would be impracticable, onerous or which would hinder the District's daily operations, including the filing of financial data less than 90 days old. The December 31, 2009 information is representative of the District's current operations. Updated financial information has been provided in Case 2010-0094, which is incorporated by reference.

For these reasons, Northern requests that it be granted an order prior to January 10, 2011 authorizing creation and construction of the sub district H facilities, financing as proposed and an imposition of a surcharge on sub district H customers.

SUBMITTED BY:

  
John N. Hughes  
124 W. Todd St.  
Frankfort, KY 40601

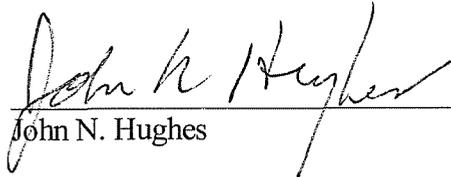
ATTORNEY FOR NORTHERN  
KENTUCKY WATER DISTRICT

Affidavit of Jack Bragg, Vice President Finance - See Exhibit B

CERTIFICATE OF SERVICE:

I certify that a copy of this Petition was served on the parties listed below by First Class mail the 4<sup>th</sup> day of November, 2010.

David Spenard  
Assistant Attorney General  
1024 Capital Center Drive  
Frankfort, KY 40601

  
\_\_\_\_\_  
John N. Hughes

**NORTHERN KENTUCKY WATER DISTRICT  
Sub-district H Water Main Extension Project**

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A	ENGINEERING REPORTS AND INFORMATION (1) Project map  (2) Engineer's opinion of probable total construction cost  (3) System Hydraulic Model  (4) Viox and Viox Engineers plans titled "Sub-district H Water Main Extension Project" dated October 2010, sealed by a P.E.  (5) Viox and Viox Engineers Specifications titled "Sub-district H Water Main Extension Project" dated October 2010, sealed by a P.E.
B	Certified statement from an authorized utility Official confirming:  (1) Affidavit  (2) Franchises  (3) Plan review and permit status  (4) Easements and Right-Of-Way status  (5) Construction dates and proposed date in service  (6) Plant retirements
C	BID INFORMATION AND BOARD MEETING MINUTES Bid tabulation, Engineer's recommendation of award, Board Meeting Minutes.
D	PROJECT FINANCE INFORMATION Customers added and revenue effect, Debt issuance and source of debt, Additional costs and operating and maintenance, USoA plant account, Depreciation cost and debt service after construction.
E	PSC ANNUAL REPORT - 2009
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H	CUSTOMER NOTICE, RATE SCHEDULE, PROPOSED TARIFF
I	STREET DENSITY TABLE. SUB DISTRICT MAP

# NORTHERN KENTUCKY WATER DISTRICT

Sub-district H Water Main Extension Project

Campbell County, Kentucky

Project 184-654

## Project Description

**Sub-District H Water Main Extension Project**

**Campbell County, Kentucky**

**Project 184-654**

**Project Description:**

**Proposed Project:**

This project will be broken into 4 phases for bidding and construction purposes.

- Phase 1 will include the installation of approximately 6012 feet of 8" ductile iron pipe, 1611 feet of 8" PVC, and 427 feet of 6" PVC on Rifle Range Road, Enzweiler Road, Orlando Drive, and Bars Branch Road.

- Phase 2 will include the installation of approximately 1025 feet of 6" ductile iron pipe, 11,359 feet of 8" ductile iron pipe, and 12,152 feet of 12" ductile iron pipe on Creek Trace Road, John Miller Road, Indian Trace Road, Joann Lane and Lauren Lane.

- Phase 3 will include the installation of approximately 4590 feet of 8" ductile iron pipe, and 13,610 feet of 8" PVC, on Wesley Chapel Road, and Schababerle Hill Road.

- Phase 4 will include the installation of approximately 1980 feet of 8" ductile iron pipe, 450 feet of 6" PVC, and 5430 feet of 8" PVC on Maddox Road, Cody Lane, and Pleasant Ridge Road.

This project will extend 6 inch, 8 inch, and 12 inch water mains to make public water available to 255 residences in rural areas that currently have no access to public water supply. These areas were chosen based on population density. The estimated cost of the total project is \$4,555,860.00. There is no low/moderate income requirements for the financing of this project, therefore, income levels are not a factor in the selection of geographic areas. All areas included in the project have similar characteristics of rural location, sparse population density, lack of potable water supply and inability to connect to a water distribution system without the extension of these water lines.

<b>Street Name</b>	<b>Total Residents</b>	<b>Total Signups</b>	<b>% Signups</b>
Rifle Range Road (from Licking Pike to #539)	22	7	32%
Creektrace Road (from Licking Pike to Pond Creek Road)	36	18	50%
Indian Trace Road (from Creektrace to the end of the road)	33	13	43%
JoAnn Lane (from Indian Trace to the dead end)	19	15	79%
Lauren Lane (from Creek Trace to the dead end)	19	14	74%
Schababerle Hill (from Wesley Chapel to Daniels Road)	16	7	44%
Wesley Chapel Road (from California Cross Road to address #12635)	46	23	50%

Maddox Road (From Madonna to the dead end)	9	4	44%
Cory Lane (Maddox to the dead end)	13	9	69%
John Miller Road (from Creektrace to address #9807)	4	1	25%
Bars Branch Road (from end of line on Bars Branch to address #9677)	8	3	38%
Pleasant Ridge Road (from Visalia Road to address #11138)	12	7	58%
Enzweiler Rd. (from end of the existing water main at 51 Enzweiler Rd. to last house)	12	4	33%
Orlando Drive (from U.S. 27 to the end of the public street)	6	6	100%
<b>Totals</b>	<b>255</b>	<b>131</b>	<b>51%</b>

Bidding for the project was advertised September 23, 2010 and bids were opened on October 12, 2010. The bids will expire on January 10, 2011.



# NORTHERN KENTUCKY WATER DISTRICT

## Sub-district H Water Main Extension Project

Campbell County, Kentucky

Project 184-654

## ENGINEERING REPORTS AND INFORMATION

Project Map

System Hydraulic Model

Engineer's Opinion of Probable Total Construction Cost

Plans prepared by Cardinal Engineering  
(See Attached)

Specifications prepared by Cardinal Engineering  
(See Attached)

Case No. 2010-\_\_\_\_  
Exhibit \_\_\_\_\_A\_\_\_\_\_

# NORTHERN KENTUCKY WATER DISTRICT

Sub-district H Water Main Extension Project

Campbell County, Kentucky

Project 184-654

## Project Map



Case No. 2010-\_\_\_\_  
Exhibit     A    

# NORTHERN KENTUCKY WATER DISTRICT

Sub-district H Water Main Extension Project

Campbell County, Kentucky

Project 184-654

## System Hydraulic Model



## FIRE FLOW CERTIFICATION

### Sub-District H Phase I Campbell County, KY March 2<sup>nd</sup>, 2010

I certify that the proposed improvements meet the 807 KAR 5:066, Section 10b regulation for fire flow protection relating to KRS Chapter 278. I am certifying that "the system can provide a minimum fire flow of 250 gallons per minute; and the water system supporting this flow has the capability of providing this flow for a period of not less than two (2) hours plus consumption at the maximum daily rate". This certification is based on the information available and is not a guarantee of any precise results.

This certification is based on hydraulic modeling performed using InfoWater, the program available from MWHSoft. Supporting documentation and operating conditions are attached and are the basis for this certification.

It should be noted that input data used for modeling is based on available data. Results can change and are dependent on the demand conditions, which can vary at any given time. These values will impact the final results when adjusted. The certification is based on estimated conditions and contains many assumptions based on historical data.

With this certification, the Northern Kentucky Water District will permit the construction of fire hydrants within this development.

Fire flow analyses were made using a hydrant within the subdivision that would provide a representative result that should simulate the results at other hydrants within the system. Minor variations at different hydrants would still provide a flow rate that meets the minimum standard.





## HYDRAULIC AND FLUSHING VELOCITY CERTIFICATION

### Sub-District H Phase I Campbell County, KY March 2<sup>nd</sup>, 2010

I certify that the proposed improvements will meet the American Water Works Association Standard C651 standard for flushing velocity in the main meeting 2.5 feet per second while maintaining at least 20 psi pressure in accordance with 401 KAR 8:100.

The maximum flow rate that can reliably be supplied to the main on Rifle Range Road and meet 20 psi in the system under maximum hour conditions is 2,000 gpm. At least 30 psi can be maintained under the peak domestic demand for the 26 potential customers. The peak domestic demand using the D.R. Taylor formula for 26 potential customers is 51 gpm.

The maximum flow rate that can reliably be supplied to the main on Enzweiler Road and meet 20 psi in the system under maximum hour conditions is 1,300 gpm. At least 30 psi can be maintained under the peak domestic demand for the 12 potential customers. The peak domestic demand using the D.R. Taylor formula for 12 potential customers is 35 gpm.

The maximum flow rate that can reliably be supplied to the main on Orlando Drive and meet 20 psi in the system under maximum hour conditions is 1,600 gpm. At least 30 psi can be maintained under the peak domestic demand for the 6 potential customers. The peak domestic demand using the D.R. Taylor formula for 6 potential customers is 25 gpm.

The maximum flow rate that can reliably be supplied to the main on Barrs Branch Road and meet 20 psi in the system under maximum hour conditions is 1,200 gpm. At least 30 psi can be maintained under the peak domestic demand for the 29 potential customers. The peak domestic demand using the D.R. Taylor formula for 29 potential customers is 54 gpm.

This certification is based on the information available and is not a guarantee of any precise results. Results are based on hydraulic modeling performed using InfoWater, the program available from MWHSoft. Supporting documentation and operating conditions are attached and are the basis for this certification.

It should be noted that input data used for modeling is based on available data. Results can change and are dependent on the demand conditions, which can vary at any given time. These values will impact the final results when adjusted. The certification is based on estimated conditions for maximum hour demand conditions and contains many assumptions based on historical data.

With this certification, the Northern Kentucky Water District will permit the construction of the proposed development.

The assumed Hazen-Williams roughness coefficient for all new pipe was 120, which is suitable for ductile iron or PVC. The water levels in the Main Street Tank and Old State Tank were one-half full.



Sub-District H Phase I  
 Rifle Range Road, Enzweiler Road  
 Orlando Drive, Barrs Branch Road  
 Campbell County, Kentucky  
 Output from InfoWater model - copied to Excel  
 March 2nd, 2010



## Maximum Hour Run for Potential Customers

### Rifle Range Road

Maximum Hour Run, 26 potential Customers = 51 GPM				
ID	Demand, gpm	Elevation, ft	Grade, ft	Pressure, psi
11271	17.0	508	1004.7	215.2
J190	17.0	528	1004.6	206.5
J192	17.0	587	1004.6	181.0

### Enzweiler Road

Maximum Hour Run, 12 potential Customers = 35 GPM				
ID	Demand, gpm	Elevation, ft	Grade, ft	Pressure, psi
7432	17.5	793	999.1	89.3
J194	17.5	819	999.1	78.0

### Orlando Drive

Maximum Hour Run, 6 potential Customers = 25 GPM				
ID	Demand, gpm	Elevation, ft	Grade, ft	Pressure, psi
J196	12.5	858	999.1	61.1
J198	12.5	827	999.1	74.6

### Barrs Branch Road

Maximum Hour Run, 29 potential Customers = 54 GPM				
ID	Demand, gpm	Elevation, ft	Grade, ft	Pressure, psi
8768	27.0	688	1,003.4	136.6
J200	27.0	641	1,003.3	157.0

## Flushing Velocities Under Maximum Hour

### Rifle Range Road

Flushing velocity 2.5 fps for new 8" pipe (under max hour)				
ID	Demand, gpm	Elevation, ft	Grade, ft	Pressure, psi
11271	17.0	508	998.7	212.6
J190	392.0	528	986.0	198.5
J192	17.0	587	990.1	174.7

Pipe Information for flushing velocity at 2.5 fps for new 8" pipe					
Pipe ID	Length, ft	Diam, inch	Flow, gpm	Velocity, fps	Roughness
P319	2,123	8	409.01	2.6	120
P321	1,100	8	392	2.5	120

### Enzweiler Road

Flushing velocity 2.5 fps for new 8" pipe (under max hour)				
ID	Demand, gpm	Elevation, ft	Grade, ft	Pressure, psi
7432	17.5	793	986.4	83.8
J194	392.0	819	981.5	70.4

Pipe Information for flushing velocity at 2.5 fps for new 8" pipe					
Pipe ID	Length, ft	Diam, inch	Flow, gpm	Velocity, fps	Roughness
P323	1,307.52	8	392	2.5	120

**Orlando Drive**

Flushing velocity 2.5 fps for new 8" pipe (under max hour)				
ID	Demand, gpm	Elevation, ft	Grade, ft	Pressure, psi
J196	12.5	858	988.7	56.6
J198	392.0	827	986.0	68.9

Pipe Information for flushing velocity at 2.5 fps for new 8" pipe					
Pipe ID	Length, ft	Diam, inch	Flow, gpm	Velocity, fps	Roughness
P327	711	8	392	2.5	120

**Barrs Branch Road**

Flushing velocity 2.5 fps for new 8" pipe (under max hour)				
ID	Demand, gpm	Elevation, ft	Grade, ft	Pressure, psi
8768	27.0	688	972.1	123.1
J200	392.0	641	962.0	139.1

Pipe Information for flushing velocity at 2.5 fps for new 8" pipe					
Pipe ID	Length, ft	Diam, inch	Flow, gpm	Velocity, fps	Roughness
P329	2,702	8	392	2.5	120

**Maximum Available Flow Under Maximum Hour**

**Rifle Range Road**

Maximum Hour Run, Maximum Available Flow				
ID	Demand, gpm	Elevation, ft	Grade, ft	Pressure, psi
11271	17.0	508	917.9	177.6
J190	2000.0	528	668.8	61.0
J192	17.0	587	753.0	71.9

**Enzweiler Road**

Maximum Hour Run, Maximum Available Flow				
ID	Demand, gpm	Elevation, ft	Grade, ft	Pressure, psi
7432	17.5	793	924.6	57.0
J194	1300.0	819	879.6	26.3

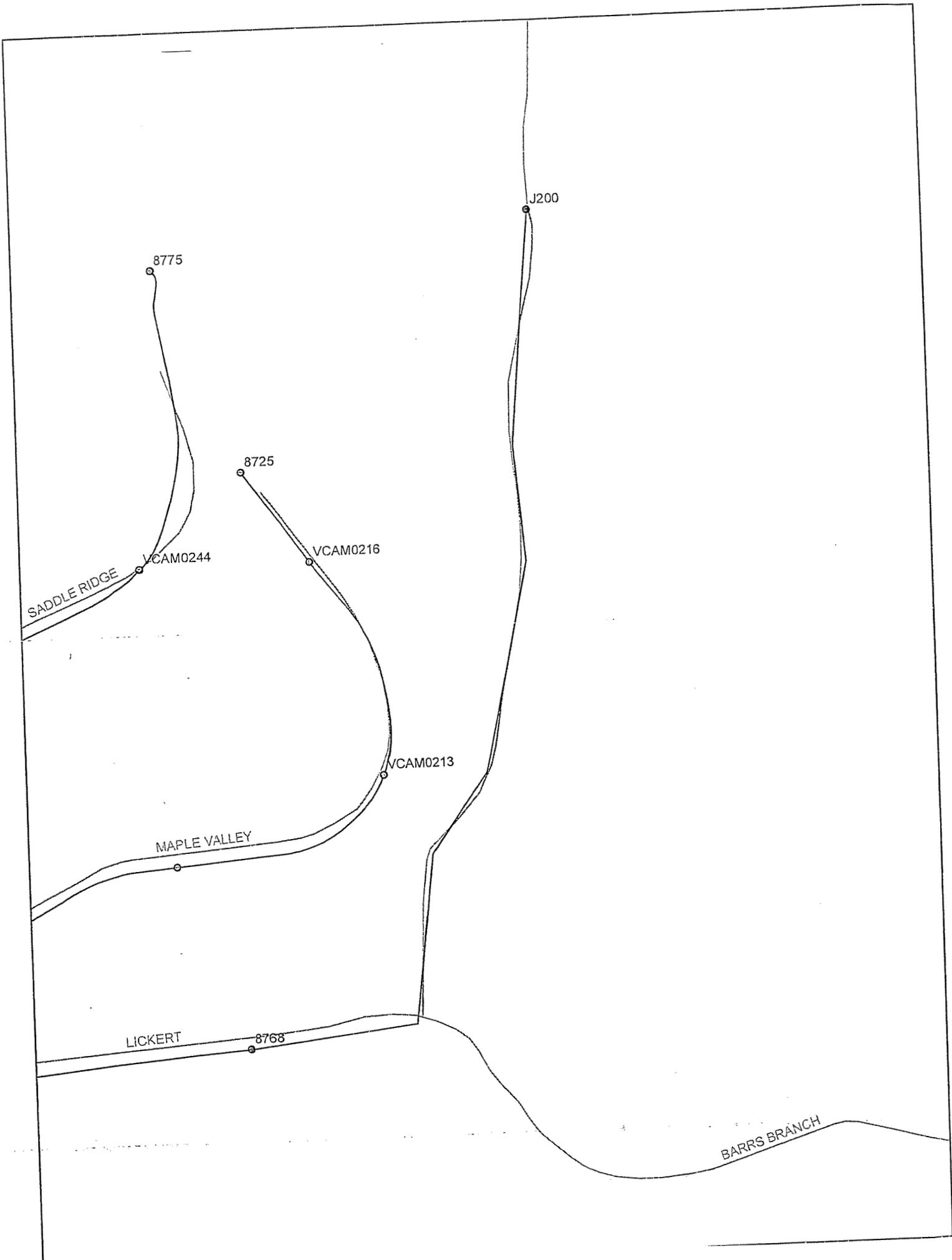
**Orlando Drive**

Maximum Hour Run, Maximum Available Flow				
ID	Demand, gpm	Elevation, ft	Grade, ft	Pressure, psi
J196	12.5	858	927.5	30.1
J198	1600.0	827	891.5	27.9

**Barrs Branch Road**

Maximum Hour Run, Maximum Available Flow				
ID	Demand, gpm	Elevation, ft	Grade, ft	Pressure, psi
8768	27.0	688	794.9	46.3
J200	1200.0	641	714.7	31.9

Pipe ID	From Node	To Node
P319	11271	J192
P321	J192	J190
P323	7432	J194
P327	J196	J198
P329	8768	J200



8775

J200

8725

VCAM0244

VCAM0216

SADDLE RIDGE

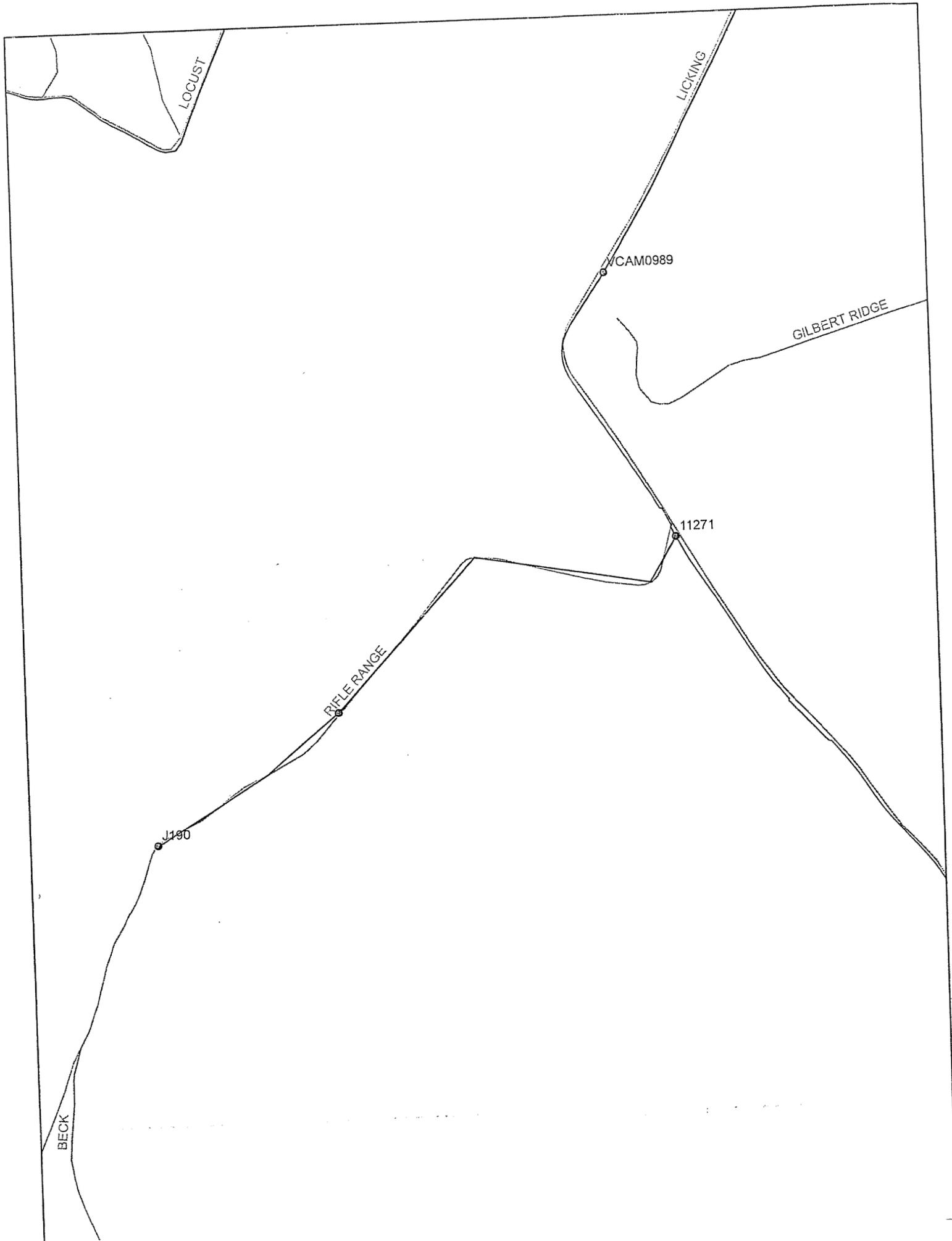
VCAM0213

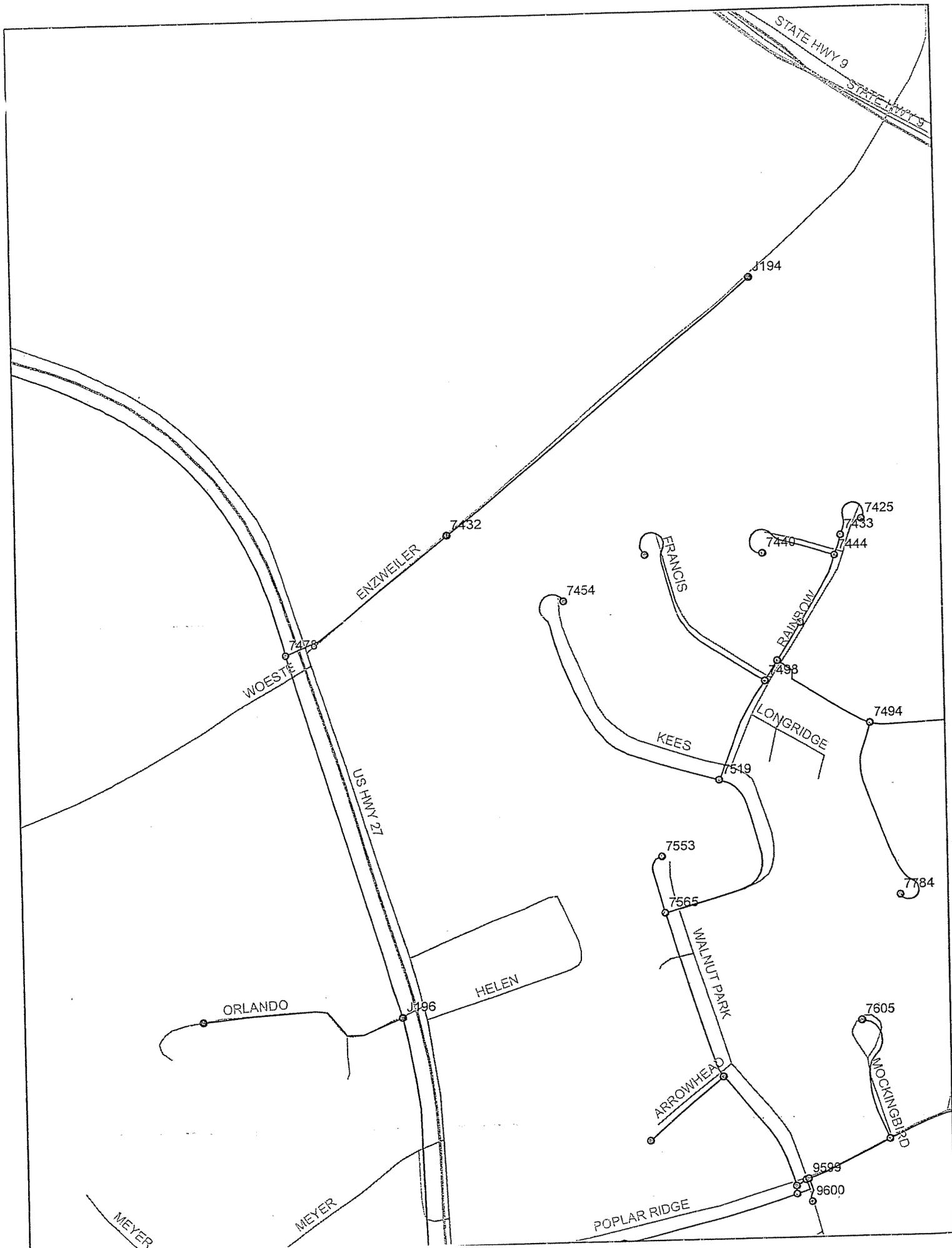
MAPLE VALLEY

LICKERT

8768

BARRS BRANCH







## FIRE FLOW CERTIFICATION

### **Sub-District H Phase II Campbell County, KY March 2<sup>nd</sup>, 2010**

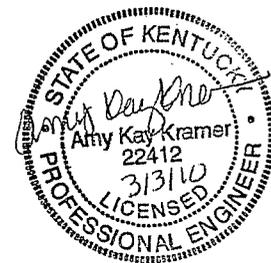
I certify that the proposed improvements meet the 807 KAR 5:066, Section 10b regulation for fire flow protection relating to KRS Chapter 278. I am certifying that "the system can provide a minimum fire flow of 250 gallons per minute; and the water system supporting this flow has the capability of providing this flow for a period of not less than two (2) hours plus consumption at the maximum daily rate". This certification is based on the information available and is not a guarantee of any precise results.

This certification is based on hydraulic modeling performed using InfoWater, the program available from MWHSoft. Supporting documentation and operating conditions are attached and are the basis for this certification.

It should be noted that input data used for modeling is based on available data. Results can change and are dependent on the demand conditions, which can vary at any given time. These values will impact the final results when adjusted. The certification is based on estimated conditions and contains many assumptions based on historical data.

With this certification, the Northern Kentucky Water District will permit the construction of fire hydrants within this development.

Fire flow analyses were made using a hydrant within the subdivision that would provide a representative result that should simulate the results at other hydrants within the system. Minor variations at different hydrants would still provide a flow rate that meets the minimum standard.





## HYDRAULIC AND FLUSHING VELOCITY CERTIFICATION

### Sub-District H Phase II Campbell County, KY March 2<sup>nd</sup>, 2010

I certify that the proposed improvements will meet the American Water Works Association Standard C651 standard for flushing velocity in the main meeting 2.5 feet per second while maintaining at least 20 psi pressure in accordance with 401 KAR 8:100.

At least 30 psi can be maintained under the peak domestic demand for the 112 potential customers. The peak domestic demand using the D.R. Taylor formula for 112 potential customers is 106 gpm.

The maximum flow rate that can reliably be supplied to the main on Creektrace Road and meet 20 psi in the system under maximum hour conditions is 1,800 gpm.

The maximum flow rate that can reliably be supplied to the main on Indian Trace Road and meet 20 psi in the system under maximum hour conditions is 1,200 gpm.

The maximum flow rate that can reliably be supplied to the main on JoAnn Lane and meet 20 psi in the system under maximum hour conditions is 1,200 gpm.

The maximum flow rate that can reliably be supplied to the main on Lauren Lane and meet 20 psi in the system under maximum hour conditions is 1,500 gpm.

The maximum flow rate that can reliably be supplied to the main on John Miller Road and meet 20 psi in the system under maximum hour conditions is 1,700 gpm.

This certification is based on the information available and is not a guarantee of any precise results. Results are based on hydraulic modeling performed using InfoWater, the program available from MWHSoft. Supporting documentation and operating conditions are attached and are the basis for this certification.

It should be noted that input data used for modeling is based on available data. Results can change and are dependent on the demand conditions, which can vary at any given time. These values will impact the final results when adjusted. The certification is based on estimated conditions for maximum hour demand conditions and contains many assumptions based on historical data.

With this certification, the Northern Kentucky Water District will permit the construction of the proposed development.

The assumed Hazen-Williams roughness coefficient for all new pipe was 120, which is suitable for ductile iron or PVC. The water level in the Main Street Tank was one-half full.



Sub-District H Phase II  
 Creektrace Road, John Miller Road, Indian Trace Road  
 JoAnn Lane, Lauren Lane  
 Campbell County, Kentucky  
 Output from InfoWater model - copied to Excel  
 March 2nd, 2010



**Maximum Hour Run for Potential Customers**

Maximum Hour Run, 112 potential Customers = 106 GPM				
ID	Demand, gpm	Elevation, ft	Grade, ft	Pressure, psi
J190	6.8	665	1,002.8	146.4
J192	6.8	513	1,002.5	212.1
J194	6.8	526	1,002.4	206.4
J196	6.8	525	1,002.4	206.9
J198	6.8	551	1,002.4	195.6
J200	5.7	563	1,002.5	190.4
J202	15.6	487	1,002.2	223.2
J204	15.6	520	1,002.1	208.9
J206	18.0	582	1,002.1	182.0
J208	8.5	529	1,002.4	205.1
J210	8.5	554	1,002.4	194.3
Total=	106.0			

**Flushing Velocities Under Maximum Hour**

**Creektrace Road**

Flushing velocity 2.5 fps for new 12" pipe (under max hour)				
ID	Demand, gpm	Elevation, ft	Grade, ft	Pressure, psi
J190	6.8	665	924.2	112.3
J192	6.8	513	901.6	168.4
J194	6.8	526	897.8	161.1
J196	6.8	525	895.9	160.7
J198	881.0	551	891.5	147.6
J200	5.7	563	901.6	146.7
J202	15.6	487	897.5	177.9
J204	15.6	520	897.5	163.6
J206	18.0	582	897.5	136.7
J208	8.5	529	895.9	159.0
J210	8.5	554	895.9	148.1

Pipe Information for flushing velocity at 2.5 fps for new 12" pipe					
Pipe ID	Length, ft	Diam, inch	Flow, gpm	Velocity, fps	Roughness
P321	8,080	12	973	2.8	120
P323	1,397	12	961	2.7	120
P325	777	12	905	2.6	120
P327	1,870	12	881	2.5	120

**Indian Trace Road**

Flushing velocity 2.5 fps for new 8" pipe (under max hour)				
ID	Demand, gpm	Elevation, ft	Grade, ft	Pressure, psi
J190	6.8	665	981.4	137.1
J192	6.8	513	975.4	200.4
J194	6.8	526	974.4	194.3
J196	6.8	525	974.4	194.7
J198	6.8	551	974.4	183.5
J200	5.7	563	975.4	178.7
J202	15.6	487	961.0	205.4
J204	392.0	520	943.7	183.6
J206	18.0	582	961.0	164.2
J208	8.5	529	974.4	193.0
J210	8.5	554	974.4	182.2

Information for flushing velocity at 2.5 fps for new 8" pipe

Pipe ID	Length, ft	Diam, inch	Flow, gpm	Velocity, fps	Roughness
P331	3,077	8	426	2.7	120
P333	4,616	8	392	2.5	120

\*demonstrates ability to flush 8" and 6" mains off 12" main

## Maximum Available Flow Under Maximum Hour

### Creektrace Road

Maximum Hour Run, Maximum Available Flow off 12" main				
ID	Demand, gpm	Elevation, ft	Grade, ft	Pressure, psi
J190	6.8	665	739.8	32.4
J192	6.8	513	662.4	64.7
J194	6.8	526	649.1	53.4
J196	6.8	525	642.2	50.8
J198	1800.0	551	625.9	32.4
J200	5.7	563	662.4	43.1
J202	15.6	487	648.9	70.2
J204	15.6	520	648.9	55.8
J206	18.0	582	648.9	29.0
J208	8.5	529	642.2	49.0
J210	8.5	554	642.2	38.2

### Indian Trace Road

Maximum Hour Run, Maximum Available Flow				
ID	Demand, gpm	Elevation, ft	Grade, ft	Pressure, psi
J194	6.8	526	828.8	131.2
J202	15.6	487	732.7	106.5
J204	1200.0	520	595.6	32.8
J206	18.0	582	732.7	65.3

### JoAnn Lane

Maximum Hour Run, Maximum Available Flow				
ID	Demand, gpm	Elevation, ft	Grade, ft	Pressure, psi
J194	6.8	526	829.4	131.5
J202	15.6	487	733.6	106.9
J204	15.6	520	733.6	92.5
J206	1200.0	582	674.7	40.2

### Lauren Lane

Maximum Hour Run, Maximum Available Flow				
ID	Demand, gpm	Elevation, ft	Grade, ft	Pressure, psi
J196	6.8	525	740.4	93.3
J208	1500.0	529	600.8	31.1
J210	8.5	554	678.8	54.1

### John Miller Road

Maximum Hour Run, Maximum Available Flow				
ID	Demand, gpm	Elevation, ft	Grade, ft	Pressure, psi
J192	6.8	513	694.2	78.5
J200	1700.0	563	649.3	37.4

Pipe ID	From Node	To Node
P321	J190	J192
P323	J192	J194
P325	J194	J196
P327	J196	J198
P329	J192	J200
P331	J194	J202
P333	J202	J204
P335	J202	J206
P337	J196	J210
P339	J210	J208





FIRE FLOW CERTIFICATION

**Sub-District H Phase III  
Campbell County, KY  
May 3<sup>rd</sup>, 2010**

I certify that the proposed improvements meet the 807 KAR 5:066, Section 10b regulation for fire flow protection relating to KRS Chapter 278. I am certifying that "the system can provide a minimum fire flow of 250 gallons per minute; and the water system supporting this flow has the capability of providing this flow for a period of not less than two (2) hours plus consumption at the maximum daily rate". This certification is based on the information available and is not a guarantee of any precise results.

This certification is based on hydraulic modeling performed using InfoWater, the program available from MWHSoft. Supporting documentation and operating conditions are attached and are the basis for this certification.

It should be noted that input data used for modeling is based on available data. Results can change and are dependent on the demand conditions, which can vary at any given time. These values will impact the final results when adjusted. The certification is based on estimated conditions and contains many assumptions based on historical data.

With this certification, the Northern Kentucky Water District will permit the construction of fire hydrants within this development.

Fire flow analyses were made using a hydrant within the subdivision that would provide a representative result that should simulate the results at other hydrants within the system. Minor variations at different hydrants would still provide a flow rate that meets the minimum standard.





## HYDRAULIC AND FLUSHING VELOCITY CERTIFICATION

### Sub-District H Phase III Campbell County, KY May 3<sup>rd</sup>, 2010

The proposed 8" improvements will **not** meet the American Water Works Association Standard C651 standard for flushing velocity in the main meeting 2.5 feet per second while maintaining as least 20 psi pressure in accordance with 401 KAR 8:100 and would be considered "underserved". The maximum flow rate that can be supplied to the main on Wesley Chapel Road to get unidirectional flushing is 275 gpm at 1.8 fps under average day conditions. The maximum flow rate that can be supplied to the main on Shababele Hill Road to get unidirectional flushing is 310 gpm at 2.0 fps under average day conditions. Approval from the Division of Water to allow the underserved main will be required. Improvements that are currently under design will improve the flushing velocity on Wesley Chapel to 1.9 fps and on Shababele Hill to 2.2 fps.

The maximum flow rate that can reliably be supplied to the main and meet 20 psi in the system under maximum hour conditions is 250 gpm. At least 30 psi can be maintained under the peak domestic demand for the 63 potential customers. The peak domestic demand using the D.R. Taylor formula for 63 potential customers is 80 gpm.

This certification is based on the information available and is not a guarantee of any precise results. Results are based on hydraulic modeling performed using InfoWater, the program available from MWHSoft. Supporting documentation and operating conditions are attached and are the basis for this certification.

It should be noted that input data used for modeling is based on available data. Results can change and are dependent on the demand conditions, which can vary at any given time. These values will impact the final results when adjusted. The certification is based on estimated conditions for maximum hour demand conditions and contains many assumptions based on historical data.

With this certification, the Northern Kentucky Water District will permit the construction of the proposed development.

The assumed Hazen-Williams roughness coefficient for all new pipe was 130, which is suitable for ductile iron or PVC. The water level in the South County Tank was one-half full.



Sub-District H Phase III  
 Wesley Chapel Road and Schababerle Hill Road  
 Campbell County, Kentucky  
 Output from InfoWater model - copied to Excel  
 May 3rd, 2010



Without Stonehouse and Washington Trace improvements in  
**Maximum Hour Run for Potential Customers**

Maximum Hour Run, 63 potential Customers = 80 GPM				
ID	Demand, gpm	Elevation, ft	Grade, ft	Pressure, psi
9108	20.0	626	994.7	159.8
J190	20.0	872	994.1	52.9
J194	20.0	900	994.0	40.7
J196	10.0	805	994.1	81.9
J198	10.0	680	994.1	136.1

**Flushing Velocities Under Average Day**

Wesley Chapel Road

Flushing velocity 2.5 fps for new 8" pipe (under avg day)				
ID	Demand, gpm	Elevation, ft	Grade, ft	Pressure, psi
9108	20.0	626	971.4	149.6
J190	20.0	872	958.7	37.5
J194	275.0	900	947.1	20.4
J196	10.0	805	958.6	66.6
J198	10.0	680	958.6	120.7

Pipe Information for flushing velocity at 2.5 fps for new 8" pipe					
Pipe ID	Length, ft	Diam, inch	Flow, gpm	Velocity, fps	Roughness
P319	5,910	8	315.0	2.0	130
P321	6,938	8	275.0	1.8	130

Shababele Hill Road

Flushing velocity 2.5 fps for new 8" pipe (under avg day)				
ID	Demand, gpm	Elevation, ft	Grade, ft	Pressure, psi
9108	20.0	626	963.8	146.4
J190	20.0	872	947.5	32.7
J194	20.0	900	947.4	20.5
J196	310.0	805	940.3	58.6
J198	10.0	680	942.8	113.9

Pipe Information for flushing velocity at 2.5 fps for new 8" pipe					
Pipe ID	Length, ft	Diam, inch	Flow, gpm	Velocity, fps	Roughness
P325	2,107	8	320.0	2.0	130
P327	1,218	8	310.0	2.0	130

**Fire Flow Under Maximum Day**

Maximum Day Run, Fire Flow = 250 gpm				
ID	Demand, gpm	Elevation, ft	Grade, ft	Pressure, psi
9108	20.0	626	971.8	149.9
J190	20.0	872	960.9	38.5
J194	250.0	900	951.2	22.2
J196	10.0	805	960.9	67.6
J198	10.0	680	960.9	121.7

Pipe ID	From Node	To Node
P319	9108	J190
P321	J190	J194
P325	J190	J198
P327	J198	J196

Sub-District H Phase III  
 Wesley Chapel Road and Schababerle Hill Road  
 Campbell County, Kentucky  
 Output from InfoWater model - copied to Excel  
 May 3rd, 2010  
 With Stonehouse and Washington Trace improvements in



### Maximum Hour Run for Potential Customers

Maximum Hour Run, 63 potential Customers = 80 GPM				
ID	Demand, gpm	Elevation, ft	Grade, ft	Pressure, psi
9108	20.0	626	995.5	160.1
J190	20.0	872	994.9	53.3
J194	20.0	900	994.8	41.1
J196	10.0	805	994.9	82.3
J198	10.0	680	994.9	136.4

### Flushing Velocities Under Average Day

#### Wesley Chapel Road

Flushing velocity 2.5 fps for new 8" pipe (under avg day)				
ID	Demand, gpm	Elevation, ft	Grade, ft	Pressure, psi
9108	20.0	626	975.9	151.6
J190	20.0	872	961.3	38.7
J194	300.0	900	947.6	20.6
J196	10.0	805	961.2	67.7
J198	10.0	680	961.2	121.9

Pipe Information for flushing velocity at 2.5 fps for new 8" pipe					
Pipe ID	Length, ft	Diam, inch	Flow, gpm	Velocity, fps	Roughness
P319	5,910	8	340.0	2.2	130
P321	6,938	8	300.0	1.9	130

#### Shababele Hill Road

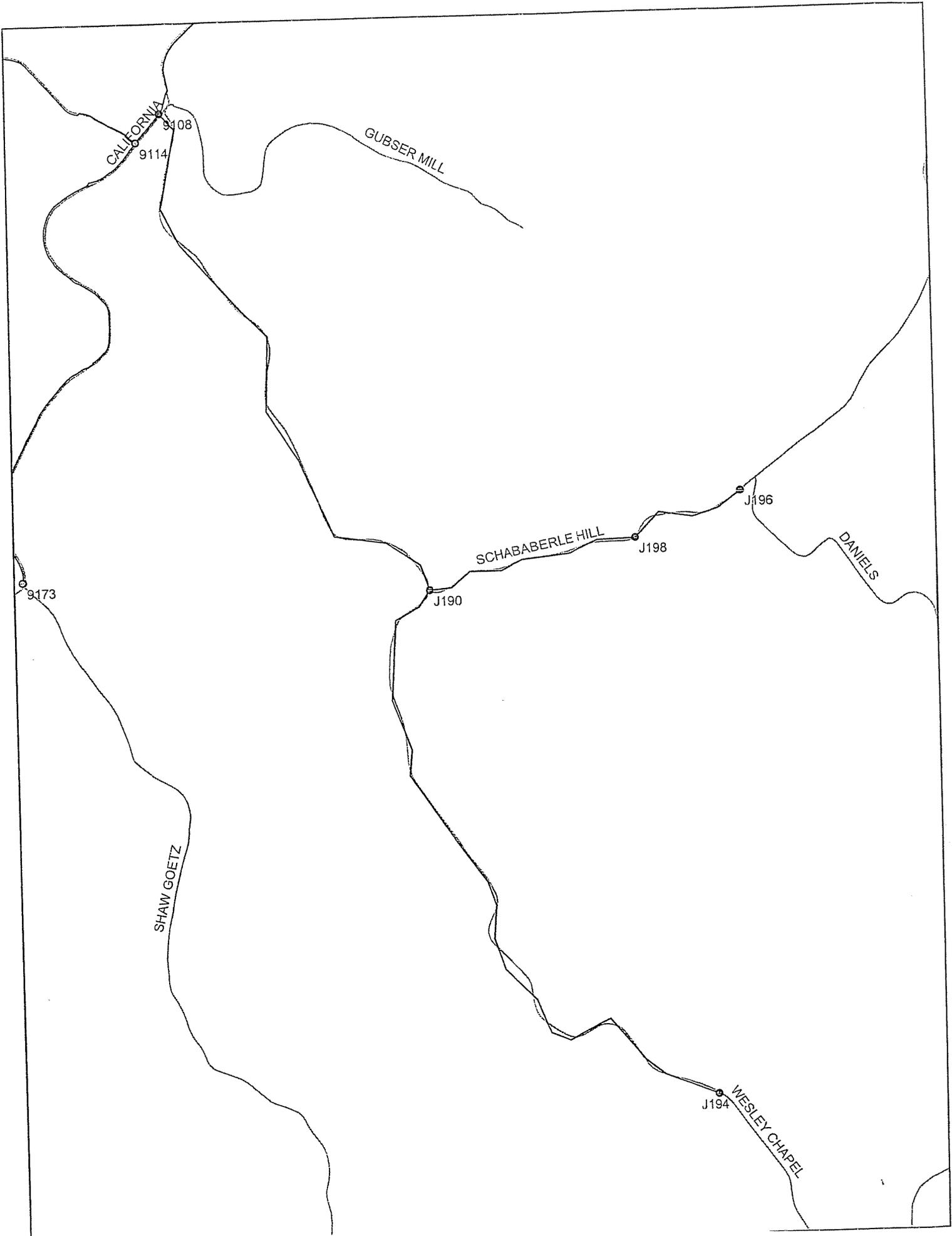
Flushing velocity 2.5 fps for new 8" pipe (under avg day)				
ID	Demand, gpm	Elevation, ft	Grade, ft	Pressure, psi
9108	20.0	626	967.6	148.0
J190	20.0	872	947.9	32.9
J194	20.0	900	947.8	20.7
J196	350.0	805	938.9	58.0
J198	10.0	680	942.1	113.5

Pipe Information for flushing velocity at 2.5 fps for new 8" pipe					
Pipe ID	Length, ft	Diam, inch	Flow, gpm	Velocity, fps	Roughness
P325	2,107	8	360.0	2.3	130
P327	1,218	8	350.0	2.2	130

### Fire Flow Under Maximum Day

Maximum Day Run, Fire Flow = 250 gpm				
ID	Demand, gpm	Elevation, ft	Grade, ft	Pressure, psi
9108	20.0	626	978.9	152.9
J190	20.0	872	968.0	41.6
J194	250.0	900	958.3	25.3
J196	10.0	805	968.0	70.6
J198	10.0	680	968.0	124.8

<u>Pipe ID</u>	<u>From Node</u>	<u>To Node</u>
P319	9108	J190
P321	J190	J194
P325	J190	J198
P327	J198	J196





## FIRE FLOW CERTIFICATION

Sub-District H Phase IV  
Campbell County, KY  
March 2<sup>nd</sup>, 2010

I certify that the proposed improvements meet the 807 KAR 5:066, Section 10b regulation for fire flow protection relating to KRS Chapter 278. I am certifying that "the system can provide a minimum fire flow of 250 gallons per minute; and the water system supporting this flow has the capability of providing this flow for a period of not less than two (2) hours plus consumption at the maximum daily rate". This certification is based on the information available and is not a guarantee of any precise results.

This certification is based on hydraulic modeling performed using InfoWater, the program available from MWHSoft. Supporting documentation and operating conditions are attached and are the basis for this certification.

It should be noted that input data used for modeling is based on available data. Results can change and are dependent on the demand conditions, which can vary at any given time. These values will impact the final results when adjusted. The certification is based on estimated conditions and contains many assumptions based on historical data.

With this certification, the Northern Kentucky Water District will permit the construction of fire hydrants within this development.

Fire flow analyses were made using a hydrant within the subdivision that would provide a representative result that should simulate the results at other hydrants within the system. Minor variations at different hydrants would still provide a flow rate that meets the minimum standard.





## HYDRAULIC AND FLUSHING VELOCITY CERTIFICATION

### Sub-District H Phase IV Campbell County, KY March 2<sup>nd</sup>, 2010

I certify that the proposed improvements will meet the American Water Works Association Standard C651 standard for flushing velocity in the main meeting 2.5 feet per second while maintaining at least 20 psi pressure in accordance with 401 KAR 8:100.

The maximum flow rate that can reliably be supplied to the main on Maddox Road and Cory Lane and meet 20 psi in the system under maximum hour conditions is 400 gpm. At least 30 psi can be maintained under the peak domestic demand for the 23 potential customers. The peak domestic demand using the D.R. Taylor formula for 23 potential customers is 48 gpm.

The maximum flow rate that can reliably be supplied to the main on Pleasant Ridge Road and meet 20 psi in the system under maximum hour conditions is 400 gpm. At least 30 psi can be maintained under the peak domestic demand for the 11 potential customers. The peak domestic demand using the D.R. Taylor formula for 11 potential customers is 34 gpm.

This certification is based on the information available and is not a guarantee of any precise results. Results are based on hydraulic modeling performed using InfoWater, the program available from MWHSoft. Supporting documentation and operating conditions are attached and are the basis for this certification.

It should be noted that input data used for modeling is based on available data. Results can change and are dependent on the demand conditions, which can vary at any given time. These values will impact the final results when adjusted. The certification is based on estimated conditions for maximum hour demand conditions and contains many assumptions based on historical data.

With this certification, the Northern Kentucky Water District will permit the construction of the proposed development.

The assumed Hazen-Williams roughness coefficient for all new pipe was 120, which is suitable for ductile iron or PVC. The water level in the Main Street Tank was one-half full.



Sub-District H Phase IV  
 Maddox Road, Cory Lane, Pleasant Ridge Road  
 Campbell County, Kentucky  
 Output from InfoWater model - copied to Excel  
 March 2nd, 2010



## Maximum Hour Run for Potential Customers

### Maddox Road and Cory Lane

Maximum Hour Run, 23 potential Customers = 48 GPM				
ID	Demand, gpm	Elevation, ft	Grade, ft	Pressure, psi
J190	12.0	755	996.1	104.5
J192	12.0	846	995.9	65.0
J194	12.0	843	995.9	66.3
J196	12.0	835	995.9	69.7

### Pleasant Ridge Road

Maximum Hour Run, 11 potential Customers = 34 GPM				
ID	Demand, gpm	Elevation, ft	Grade, ft	Pressure, psi
VCAM0430	11.3	831	996.1	71.6
J198	11.3	732	996.1	114.4
J200	11.3	828	996.1	72.9

## Flushing Velocities Under Maximum Hour

### Maddox Road and Cory Lane

Flushing velocity 2.5 fps for new 8" and 6" pipe (under max hour)				
ID	Demand, gpm	Elevation, ft	Grade, ft	Pressure, psi
J190	12.0	755	929.8	75.7
J192	12.0	846	914.6	29.7
J194	392.0	843	900.4	24.9
J196	12.0	835	911.1	33.0

Pipe Information for flushing velocity at 2.5 fps for new 8" and 6" pipe					
Pipe ID	Length, ft	Diam, inch	Flow, gpm	Velocity, fps	Roughness
P321	3,637	8	416	2.7	120
P323	883	8	404	2.6	120
P325	707	6	392	4.5	120

### Pleasant Ridge Road

Flushing velocity 2.5 fps for new 8" pipe (under max hour)				
ID	Demand, gpm	Elevation, ft	Grade, ft	Pressure, psi
VCAM0430	11.3	831	891.4	26.2
J198	392.0	732	882.2	65.1
J200	11.3	828	889.2	26.5

Pipe Information for flushing velocity at 2.5 fps for new 8" pipe					
Pipe ID	Length, ft	Diam, inch	Flow, gpm	Velocity, fps	Roughness
P327	560	8	403	2.6	120
P329	1,884	8	392	2.5	120

## Maximum Available Flow Under Maximum Hour

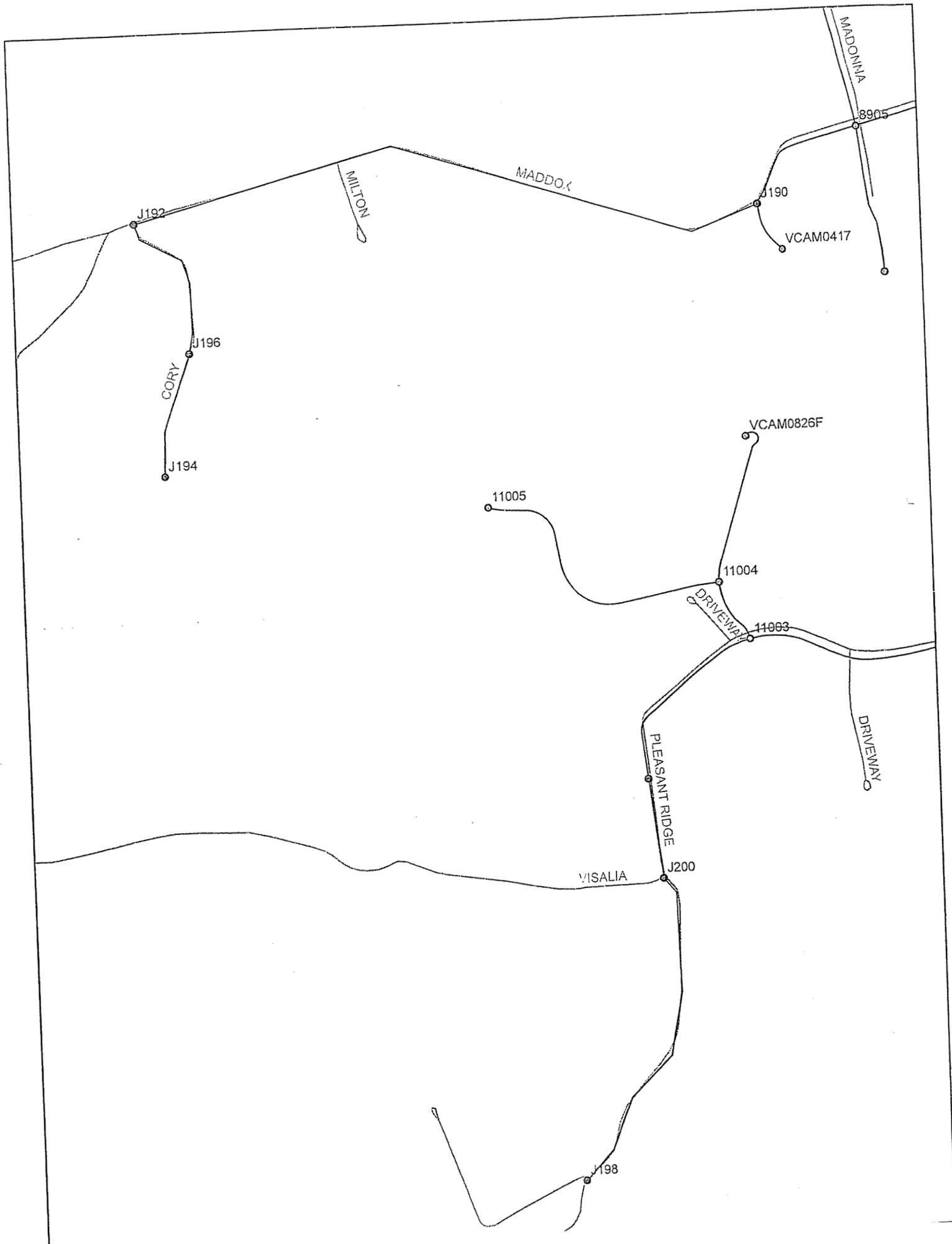
### Maddox Road and Cory Lane

Maximum Hour Run, Maximum Available Flow				
ID	Demand, gpm	Elevation, ft	Grade, ft	Pressure, psi
J190	12.0	755	927.5	74.8
J192	12.0	846	911.8	28.5
J194	400.0	843	897.0	23.4
J196	12.0	835	908.2	31.7

### Pleasant Ridge Road

Maximum Hour Run, Maximum Available Flow				
ID	Demand, gpm	Elevation, ft	Grade, ft	Pressure, psi
VCAM0430	11.3	831	887.7	24.6
J198	400.0	732	878.1	63.3
J200	11.3	828	885.4	24.9

<u>Pipe ID</u>	<u>From Node</u>	<u>To Node</u>
P321	J190	J192
P323	J192	J196
P325	J196	J194
P327	VCAM0430	J200
P329	J200	J198



Case No. 2010-\_\_\_\_  
Exhibit     A    

# NORTHERN KENTUCKY WATER DISTRICT

Sub-district H Water Main Extension Project

Campbell County, Kentucky

Project 184-654

Engineer's Opinion  
Of Probable  
Construction Cost



# VIOX & VIOX

Civil Engineers, Surveyors, and Landscape Architects

466 Erlanger Road  
Erlanger, Kentucky 41018

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## PRELIMINARY ENGINEER'S ESTIMATE SUB-DISTRICT H - PHASE 1 RIFLE RANGE ROAD, ENZWEILER ROAD, ORLANDO DRIVE & BARRS BRANCH ROAD

9/15/10

ESTIMATE IS BASED ON 2009-2010 BID PRICES					
ITEM No.	DESCRIPTION	UNIT OF MEASURE	ESTIMATED QUANTITY	UNIT COST TOTAL	TOTAL COST
1	6.01 8" CLASS 50 DUCTILE IRON PIPE (Detail 103, 103a, 104, 104a, 110)	LF	5605	\$45.00	\$252,225.00
2	6.02 B 8" CLASS 50 DUCTILE IRON PIPE-RESTRAINED JOINT (Detail 103, 103a, 104, 104a, 110)	LF	500	\$49.00	\$24,500.00
3	6.03 6" C-900 POLYVINYL CHLORIDE (PVC). (Detail 103, 103a, 104, 104a, 110)	LF	10	\$50.00	\$500.00
4	6.03 8" C-900 POLYVINYL CHLORIDE (PVC). (Detail 103, 103a, 104, 104a, 110)	LF	1946	\$42.00	\$81,732.00
5	7.01 CONNECT TO EXISTING 6" MAIN	EA	2	\$500.00	\$1,000.00
6	7.01 CONNECT TO EXISTING 8" MAIN	EA	1	\$1,000.00	\$1,000.00
7	7.02 12"-8" TAPPING SLEEVE & VALVE	EA	1	\$1,000.00	\$1,000.00
8	8.01 INSTALL FIRE HYDRANT ASSEMBLY	EA	4	\$3,500.00	\$14,000.00
9	8.01HP INSTALL FIRE HYDRANT ASSEMBLY {HIGH PRESSURE}	EA	8	\$3,700.00	\$29,600.00
10	9.01 6" DUCTILE IRON RESILIENT SEATED GATE VALVE	EA	2	\$800.00	\$1,600.00
11	9.01 8" DUCTILE IRON RESILIENT SEATED GATE VALVE	EA	6	\$1,200.00	\$7,200.00
12	11.01 CONCRETE ENCASEMENT	LF	120	\$60.00	\$7,200.00
13	11.04 8" PLUG AND BLOCK	EA	4	\$500.00	\$2,000.00
14	11.05 AIR RELEASE VALVE {MATERIALS SUPPLIED BY NKWD}	EA	6	\$1,500.00	\$9,000.00
15	11.06 8"x8"x6" ANCHORING TEES AND BLOCKS	EA	12	\$600.00	\$7,200.00
16	11.09 8"-6" REDUCER	EA	2	\$400.00	\$800.00
17	11.11 TEST TAP	EA	2	\$950.00	\$1,900.00
18	12.05 ASPHALTIC CONCRETE MILLING AND PAVING	SY	4775	\$20.00	\$95,500.00
19	12.06 ASPHALTIC CONCRETE	SY	1200	\$55.00	\$66,000.00
20	12.07 ASPHALTIC DRIVEWAY	SY	45	\$55.00	\$2,475.00
21	12.10 CONCRETE DRIVEWAY	SY	175	\$70.00	\$12,250.00
22	12.11 CONCRETE CURBING	SY	200	\$65.00	\$13,000.00
23	12.12 CONCRETE SIDEWALK	SY	10	\$65.00	\$650.00
24	12.12 GRAVEL DRIVEWAY/PARKING AREA	SY	240	\$15.00	\$3,600.00
25	12.14 BEST MANAGEMENT PRACTICE {SWPPP}	LS	1	\$16,000.00	\$16,000.00
<b>TOTAL ESTIMATED COST</b>					<b>\$651,932.00</b>



# VIOX & VIOX

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## ENGINEER'S ESTIMATE SUB-DISTRICT H - PHASE 2 CREEKTRACE ROAD, JOHN MILLER ROAD, INDIAN TRACE ROAD, JOANN LANE & LAUREN LANE 9/15/10

ESTIMATE IS BASED ON 2009-2010 BID PRICES					
ITEM No.	DESCRIPTION	UNIT OF MEASURE	ESTIMATED QUANTITY	UNIT COST TOTAL	TOTAL COST
1	6.01 6" CLASS 50 DUCTILE IRON PIPE (Detail 103, 103a, 104, 104a, 110)	LF	1061	\$35.00	\$37,135.00
2	6.01 8" CLASS 50 DUCTILE IRON PIPE (Detail 103, 103a, 104, 104a, 110)	LF	11207	\$45.00	\$504,315.00
3	6.01 12" CLASS 50 DUCTILE IRON PIPE (Detail 103, 103a, 104, 104a, 110)	LF	11660	\$56.00	\$652,960.00
4	6.02.B 8" CLASS 50 DUCTILE IRON PIPE-RESTRAINED JOINT (Detail 103, 103a, 104, 104a, 110)	LF	227	\$49.00	\$11,123.00
5	6.02.B 12" CLASS 50 DUCTILE IRON PIPE-RESTRAINED JOINT (Detail 103, 103a, 104, 104a, 110)	LF	480	\$61.00	\$29,280.00
6	6.04 16" I.D. STEEL CASING PIPE BY BORE & JACK {0.282 Min. Wall Thickness- KDOT Spec's}	LF	50	\$260.00	\$13,000.00
7	6.04 24" I.D. STEEL CASING PIPE BY BORE & JACK {0.407 Min. Wall Thickness-KDOT Spec's}	LF	50	\$400.00	\$20,000.00
8	8.01 INSTALL FIRE HYDRANT ASSEMBLY {HIGH PRESSURE}	EA	36	\$3,700.00	\$133,200.00
9	9.01 6" DUCTILE IRON RESILIENT SEATED GATE VALVE	EA	1	\$800.00	\$800.00
10	9.01 8" DUCTILE IRON RESILIENT SEATED GATE VALVE {Restrained}	EA	1	\$1,400.00	\$1,400.00
11	9.01 8" DUCTILE IRON RESILIENT SEATED GATE VALVE	EA	7	\$1,200.00	\$8,400.00
12	9.01 12" DUCTILE IRON RESILIENT SEATED GATE VALVE {Restrained}	EA	2	\$2,200.00	\$4,400.00
13	9.01 12" DUCTILE IRON RESILIENT SEATED GATE VALVE	EA	11	\$2,000.00	\$22,000.00
14	11.01 CONCRETE ENCASEMENT	LF	375	\$60.00	\$22,500.00
15	11.04 6" PLUG AND BLOCK	EA	2	\$500.00	\$1,000.00
16	11.04 8" PLUG AND BLOCK	EA	2	\$750.00	\$1,500.00



# VIOX & VIOX

Civil Engineers, Surveyors, and Landscape Architects

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## ENGINEER'S ESTIMATE SUB-DISTRICT H - PHASE 2 CREEKTRACE ROAD, JOHN MILLER ROAD, INDIAN TRACE ROAD, JOANN LANE & LAUREN LANE 9/15/10

*ESTIMATE IS BASED ON 2009-2010 BID PRICES*

ITEM No.	DESCRIPTION	UNIT OF MEASURE	ESTIMATED QUANTITY	UNIT COST TOTAL	TOTAL COST
		EA	2	\$1,000.00	\$2,000.00
17	11.04 12" PLUG AND BLOCK	EA	2	\$1,500.00	\$3,000.00
18	11.05 AIR RELEASE VALVE {MATERIALS SUPPLIED BY NKWD}	EA	2	\$500.00	\$1,000.00
19	11.06 6"x6"x6" ANCHORING TEES AND BLOCKS	EA	18	\$600.00	\$10,800.00
20	11.06 8"x8"x6" ANCHORING TEES AND BLOCKS	EA	16	\$750.00	\$12,000.00
21	11.06 12"x12"x6" ANCHORING TEES AND BLOCKS	EA	1	\$700.00	\$700.00
22	11.07 8"x8"x8" DUCTILE IRON TEE AND BLOCK	EA	1	\$800.00	\$800.00
23	11.07 12"x12"x8" DUCTILE IRON TEE AND BLOCK {Restrained}	EA	2	\$800.00	\$1,600.00
24	11.07 12"x12"x8" DUCTILE IRON TEE AND BLOCK	EA	2	\$4,000.00	\$8,000.00
25	11.07 12"x12"x12" DUCTILE IRON TEE AND BLOCK {CUT INTO EX.6" TRANSITE MAIN}	EA	2	\$400.00	\$800.00
26	11.09 8"-6" REDUCER	EA	2	\$600.00	\$1,200.00
27	11.09 12"-6" REDUCER	EA	4	\$950.00	\$3,800.00
28	11.11 TEST TAP				\$17,700.00
29	12.05 ASPHALTIC CONCRETE MILLING AND PAVING {KDOT Spec's}	SY	885	\$20.00	\$17,700.00
30	12.05 ASPHALTIC CONCRETE MILLING AND PAVING [CAMPBELL COUNTY Spec's]	SY	4200	\$20.00	\$84,000.00
31	12.06 ASPHALTIC CONCRETE	SY	2025	\$55.00	\$111,375.00
32	12.07 ASPHALTIC DRIVEWAY	SY	250	\$55.00	\$13,750.00
33	12.08 SHOULDER RESTORATION {KDOT Spec's}	SY	50	\$15.00	\$750.00
34	12.09 CONCRETE STREET RESTORATION	SY	500	\$70.00	\$35,000.00
35	12.10 CONCRETE DRIVEWAY	SY	820	\$70.00	\$57,400.00
36	12.12 CONCRETE SIDEWALK	SY	15	\$65.00	\$975.00
37	12.13 GRAVEL DRIVEWAY/PARKING AREA	SY	890	\$15.00	\$13,350.00
38	12.14 BEST MANAGEMENT PRACTICE {SWPPP}	LS	1	\$50,000.00	\$50,000.00
39	12.16 GUARD RAIL RESTORATION {KDOT Spec's}	LF	845	\$20.00	\$16,900.00
					\$1,909,913.00
<b>TOTAL ESTIMATED COST</b>					



**VIOX & VIOX**  
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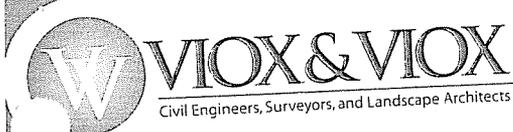
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**ENGINEER'S ESTIMATE  
SUB-DISTRICT H - PHASE 3  
WESLEY CHAPEL ROAD &  
SCHABABERLE HILL ROAD  
9/15/10**

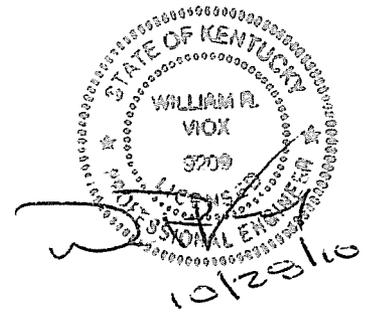
**ESTIMATE IS BASED ON 2009-2010 BID PRICES**

ITEM No.	DESCRIPTION	UNIT OF MEASURE	ESTIMATED QUANTITY	UNIT COST TOTAL	TOTAL COST
1	6.01 8" CLASS 50 DUCTILE IRON PIPE (Detail 103, 103a, 104, 104a, 110)	LF	5510	\$45.00	\$247,950.00
2	6.02.B 8" CLASS 50 DUCTILE IRON PIPE - RESTRAINED JOINT. (Detail 103, 103a, 104, 104a, 110)	LF	365	\$49.00	\$17,885.00
3	6.03 8" C-900 POLYVINYL CHLORIDE (PVC) (Detail 103, 103a, 104, 104a, 110)	LF	10000	\$42.00	\$420,000.00
4	7.01 CONNECT TO EX. 8" MAIN	EA	1	\$500.00	\$500.00
5	8.01 INSTALL FIRE HYDRANT ASSEMBLY	EA	15	\$3,500.00	\$52,500.00
6	8.01 INSTALL FIRE HYDRANT ASSEMBLY (HIGH PRESSURE)	EA	5	\$3,700.00	\$18,500.00
7	9.01 8" DUCTILE IRON RESILIENT SEATED GATE VALVE	EA	10	\$1,200.00	\$12,000.00
8	11.01 CONCRETE ENCASMENT	LF	80	\$60.00	\$4,800.00
9	11.04 8" PLUG AND BLOCK	EA	2	\$750.00	\$1,500.00
10	11.05 AIR RELEASE VALVE (MATERIALS SUPPLIED BY NKWD)	EA	4	\$1,500.00	\$6,000.00
11	11.06 8"x8"x6" ANCHORING TEES AND BLOCKS	EA	20	\$600.00	\$12,000.00
12	11.07 8"x8"x8" DUCTILE IRON TEE AND BLOCK	EA	1	\$700.00	\$700.00
13	11.11 TEST TAP	EA	2	\$950.00	\$1,900.00
14	12.05 ASPHALTIC CONCRETE MILLING AND PAVING (KDOTS SPEC'S)	SY	2600	\$20.00	\$52,000.00
15	12.05 ASPHALTIC CONCRETE MILLING AND PAVING (CAMPBELL CO. SPEC'S)	SY	1600	\$20.00	\$32,000.00
16	12.06 ASPHALTIC CONCRETE	SY	925	\$55.00	\$50,875.00
17	12.07 ASPHALTIC DRIVEWAY	SY	40	\$55.00	\$2,200.00
18	12.10 CONCRETE DRIVEWAY	SY	225	\$70.00	\$15,750.00
19	12.12 CONCRETE DRIVEWAY	SY	10	\$65.00	\$650.00
20	12.12 CONCRETE SIDEWALK	SY	700	\$15.00	\$10,500.00
21	12.13 GRAVEL DRIVEWAY/PARKING AREA	LS	1	\$36,000.00	\$36,000.00
21	12.14 BEST MANAGEMENT PRACTICE-SWPPP				
<b>TOTAL ESTIMATED COST</b>					<b>\$996,210.00</b>



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**ENGINEER'S ESTIMATE  
SUB-DISTRICT H - PHASE 4  
MADDOX ROAD, CODY LANE PLEASANT RIDGE ROAD  
9/15/10**

ESTIMATE IS BASED ON 2009-2010 BID PRICES					
ITEM No.	DESCRIPTION	UNIT OF MEASURE	ESTIMATED QUANTITY	UNIT COST TOTAL	TOTAL COST
1	6.01 8" CLASS 50 DUCTILE IRON PIPE (Detail 103, 103a, 104, 104a, 110)	LF	1777	\$45.00	\$79,965.00
2	6.02.B 8" CLASS 50 DUCTILE IRON PIPE - RESTRAINED JOINT. (Detail 103, 103a, 104, 104a, 110)	LF	179	\$49.00	\$8,771.00
3	6.03 6" C-900 POLYVINYL CHLORIDE (PVC). (Detail 103, 103a, 104, 104a, 110)	LF	735	\$35.00	\$25,725.00
4	6.03 8" C-900 POLYVINYL CHLORIDE (PVC). (Detail 103, 103a, 104, 104a, 110)	LF	5161	\$42.00	\$216,762.00
5	7.01 CONNECT TO EX. 6" MAIN	EA	1	\$500.00	\$500.00
6	8.01 INSTALL FIRE HYDRANT ASSEMBLY	EA	10	\$3,500.00	\$35,000.00
7	8.01 INSTALL FIRE HYDRANT ASSEMBLY {HIGH PRESSURE}	EA	2	\$3,700.00	\$7,400.00
8	9.01 6" DUCTILE IRON RESILIENT SEATED GATE VALVE	EA	3	\$800.00	\$2,400.00
9	9.01 8" DUCTILE IRON RESILIENT SEATED GATE VALVE	EA	8	\$1,200.00	\$9,600.00
10	11.01 CONCRETE ENCASEMENT	LF	30	\$60.00	\$1,800.00
11	11.04 6" PLUG AND BLOCK	EA	1	\$500.00	\$500.00
12	11.04 8" PLUG AND BLOCK	EA	3	\$750.00	\$2,250.00
13	11.05 AIR RELEASE VALVE {MATERIALS SUPPLIED BY NKWD}	EA	1	\$1,500.00	\$1,500.00
14	11.06 6"x6"x6" ANCHORING TEES AND BLOCKS	EA	1	\$500.00	\$500.00
15	11.06 8"x8"x6" ANCHORING TEES AND BLOCKS	EA	11	\$600.00	\$6,600.00
16	11.07 6"x6"x6" DUCTILE IRON TEE AND BLOCK {Cut Into Ex. 6" Main}	EA	1	\$700.00	\$700.00
17	11.07 8"x8"x8" DUCTILE IRON TEE AND BLOCK	EA	2	\$700.00	\$1,400.00
18	11.09 8"-6" REDUCER	EA	3	\$400.00	\$1,200.00
19	11.11 TEST TAP	EA	1	\$950.00	\$950.00
20	11.16 2" HDPE PIPE. (Detail 115)	LF	270	\$15.00	\$4,050.00
21	11.17 2" CONNECTION w/CORP. STOP {DETAIL 115}	EA	2	\$350.00	\$700.00
22	11.18 2"x2"x1" TEE w/CORP. STOP {DETAIL 115}	EA	2	\$300.00	\$600.00
23	12.05 ASPHALTIC CONCRETE MILLING AND PAVING	SY	4050	\$20.00	\$81,000.00
24	12.06 ASPHALTIC CONCRETE	SY	1180	\$55.00	\$64,900.00



# VIOX & VIOX

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## ENGINEER'S ESTIMATE SUB-DISTRICT H - PHASE 4 MADDOX ROAD, CODY LANE PLEASANT RIDGE ROAD 9/15/10

*ESTIMATE IS BASED ON 2009-2010 BID PRICES*

ITEM No.	DESCRIPTION	UNIT OF MEASURE	ESTIMATED QUANTITY	UNIT COST TOTAL	TOTAL COST
25	12.07 ASPHALTIC DRIVEWAY	SY	40	\$55.00	\$2,200.00
26	12.09 CONCRETE STREET RESTORATION	SY	80	\$70.00	\$5,600.00
27	12.10 CONCRETE DRIVEWAY	SY	260	\$70.00	\$18,200.00
28	12.12 GRAVEL DRIVEWAY/PARKING AREA	SY	250	\$15.00	\$3,750.00
29	12.14 BEST MANAGEMENT PRACTICE {SWPPP}	LS	1	\$16,000.00	\$16,000.00
<b>TOTAL ESTIMATED COST</b>					<b>\$600,523.00</b>

Case No. 2010-\_\_\_\_  
Exhibit     A    

NORTHERN KENTUCKY  
WATER DISTRICT

Sub-district H Water Main Extension Project

Campbell County, Kentucky

Project 184-654

Plans prepared by Viox and Viox Engineering  
(See Attached)

Case No. 2010-\_\_\_\_  
Exhibit \_\_\_\_\_ A \_\_\_\_\_

# NORTHERN KENTUCKY WATER DISTRICT

Sub-district H Water Main Extension Project

Campbell County, Kentucky

Project 184-654

Specifications prepared by Viox and Viox Engineering  
(See Attached)



# NORTHERN KENTUCKY WATER DISTRICT

Sub-district H Water Main Extension Project

Campbell County, Kentucky

Project 184-654

## CERTIFIED STATEMENTS

Affidavit

Franchises

Plan Review and Permit Status

Easements and Right-of-Way Status

Construction Dates and Proposed Date In Service

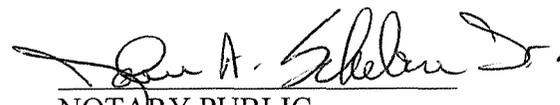
Plant Retirements

**COMMONWEALTH OF KENTUCKY  
COUNTY OF CAMPBELL**

Affiant, Jack Bragg, 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 "Sub-district H Water Main Extension 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  
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,  
Vice President of Finance of the Northern Kentucky Water District, this  
21<sup>st</sup> day of October 2010.

  
\_\_\_\_\_  
NOTARY PUBLIC  
Kenton County, Kentucky  
My commission expires May 13, 2011

Case No. 2010-\_\_\_\_  
Exhibit     B    

# NORTHERN KENTUCKY WATER DISTRICT

Sub-district H Water Main Extension Project

Campbell County, Kentucky

Project 184-654

## PLAN REVIEW AND PERMIT STATUS

Approval Letters from Kentucky Division of Water

STEVEN L. BESHEAR  
GOVERNOR



LEONARD K. PETERS  
SECRETARY

**ENERGY AND ENVIRONMENT CABINET**

DEPARTMENT FOR ENVIRONMENTAL PROTECTION

DIVISION OF WATER

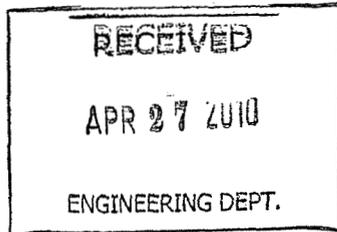
200 FAIR OAKS LANE, 4TH FLOOR

FRANKFORT, KENTUCKY 40601

[www.kentucky.gov](http://www.kentucky.gov)

April 22, 2010

Brandon L. Kuper  
Northern KY Water Service  
2835 Crescent Springs Road  
Erlanger, KY 41018



RE: Northern KY Water Service  
AI # 2485, APE20100008  
PWSID # 0590220-10-008  
Sub-District H, Phase I Waterline Extension  
Campbell County, KY

Dear Kuper:

We have reviewed the plans and specifications for the above referenced project. The plans include the construction of approximately 6,012 ft of 8-inch D.I. and 2,500 ft of 8-inch PVC. This is to advise that plans and specifications for the above referenced project are APPROVED with respect to sanitary features of design, as of this date with the requirements contained in the attached construction permit.

If you have any questions concerning this project, please contact George Partridge at 502-564-8158 extension 4824.

Sincerely,

A handwritten signature in cursive script that reads "George P. Partridge Jr.".

George P. Partridge Jr, PE  
Engineering Section  
Water Infrastructure Branch  
Division of Water

Enclosures

C: Viox & Voix Inc  
Campbell County Health Department  
Public Service Commission  
Division of Plumbing

## Distribution-Water Line Extension

Northern KY Water Service  
Subject Item Inventory

Activity ID No.: APE20100008

### Subject Item Inventory:

ID	Designation	Description
AIOO2485		
PORT196	Waterline Extension	6,012 ft of 8-inch D.I.; 2,500 ft of 8" PVC

### Subject Item Groups:

ID	Description	Components
GACT194	6,012 ft of 8-inch D.I.; 2,500 ft of 8" PVC	PORT196 6,012 ft of 8-inch D.I.; 2,500 ft of 8" PVC

#### KEY

ACTV = Activity  
AREA = Area  
EQPT = Equipment  
PERS = Personnel  
STOR = Storage  
TRMT = Treatment

AIOO = Agency Interest  
COMB = Combustion  
MNPT = Monitoring Point  
PORT = Transport  
STRC = Structure

## Distribution-Water Line Extension

Northern KY Water Service

Facility Requirements

Activity ID No.: APE20100008

Page 1 of 6

PORT0000000196 (Waterline Extension) 6,012 ft of 8-inch D.I.; 2,500 ft of 8" PVC:

### Limitation Requirements:

Condition No.	Parameter	Condition
L-1	Depth	A continuous and uniform bedding shall be provided in the trench for all buried pipe. Backfill material shall be tamped in layers around the pipe and to a sufficient height above the pipe to adequately support and protect the pipe. Stones found in the trench shall be removed for a Depth $\geq 6$ in below the bottom of the pipe. [Recommended Standards for Water Works 8.5.2] This requirement is applicable during the following months: All Year. Statistical basis: Not applicable.
L-2	Depth	All water lines shall be covered to a Depth $\geq 30$ in to prevent freezing. [Recommended Standards for Water Works 8.5.3, 401 KAR 8:100 Section 1(7)] This requirement is applicable during the following months: All Year. Statistical basis: Minimum.
L-3	Diameter	All new and existing water lines serving fire hydrants or where fire protection is provided shall have Diameter $\geq 6$ in. [Recommended Standards for Water Works 8.1.2] This requirement is applicable during the following months: All Year. Statistical basis: Minimum.
L-4	Distance	Water lines shall have a sufficient quantity of valves so that inconvenience and sanitary hazards will be minimized during repairs. A valve spacing Distance $\leq 800$ feet should be utilized in non-commercial districts. Alternatively, non-commercial districts should utilize a valve spacing Distance $\leq 1$ block. Commercial districts should utilize a valve spacing Distance $\leq 500$ ft. [Recommended Standards for Water Works 8.2] This requirement is applicable during the following months: All Year. Statistical basis: Not applicable.
L-5	Distance	Hydrant drains shall not be connected to sanitary sewers or storm drains and shall be located a Distance $> 10$ ft from sanitary sewers and storm drains. [Recommended Standards for Water Works 8.3.4] This requirement is applicable during the following months: All Year. Statistical basis: Not applicable.
L-6	Distance	Except when not practical, water lines shall be laid a horizontal Distance $\geq 10$ ft from any existing or proposed sewer. The distance shall be measured edge to edge. In cases where it is not practical to maintain a 10 foot separation, water lines may be installed closer to a sewer provided that the water lines shall be laid in a separate trench or on an undisturbed shelf located on one side of the sewer at such an elevation that the bottom of the water line is at least 18 inches above the top of the sewer. [Recommended Standards for Water Works 8.6.2] This requirement is applicable during the following months: All Year. Statistical basis: Not applicable.

## Distribution-Water Line Extension

Northern KY Water Service  
Facility Requirements

Activity ID No.: APE20100008

Page 2 of 6

PORT0000000196 (continued):

### Limitation Requirements:

Condition No.	Parameter	Condition
L-7	Distance	<p>When water lines and sewers cross,</p> <ol style="list-style-type: none"><li>1) water lines shall be laid such that either<ol style="list-style-type: none"><li>a) the the top of the water line is a vertical Distance <math>\geq 18</math> in below the bottom of the sewer line or</li><li>b) the bottom of the water line is a vertical Distance <math>\geq 18</math> in above the top of the sewer line,</li></ol></li><li>2) 1 full length of the water pipe shall be located so that both joints of the water pipe will be as far from the sewer as possible, and</li><li>3) special structural support for the water and sewer pipes may be required. [Recommended Standards for Water Works 8.6.3] This requirement is applicable during the following months: All Year. Statistical basis: Not applicable.</li></ol>
L-8	Distance	<p>The open end of an air relief pipe from automatic valves shall be extended a Distance <math>\geq 1.0</math> ft above grade and provided with a screened, downward-facing elbow. The pipe from a manually operated valve shall be extended to the top of the pit. Use of manual air relief valves is recommended wherever possible. [Recommended Standards for Water Works 8.4.2] This requirement is applicable during the following months: All Year. Statistical basis: Not applicable.</p>
L-9	Pressure	<p>Pipes shall not be installed unless all points of the distribution system remain designed for ground level Pressure <math>\geq 20</math> psi under all conditions of flow. [Recommended Standards for Water Works 8.1.1] This requirement is applicable during the following months: All Year. Statistical basis: Minimum.</p>
L-10	Pressure	<p>Pressure <math>\geq 30</math> psi must be available on the discharge side of all meters. [401 KAR 8:100 Section 4(2)] This requirement is applicable during the following months: All Year. Statistical basis: Instantaneous determination.</p>
L-11	Residual Disinfection	<p>New or relocated water lines shall be thoroughly disinfected (in accordance with AWWA Standard C651) upon completion of construction and before being placed into service. To disinfect the new or relocated lines use chlorine or chlorine compounds in such amounts as to produce an initial disinfectant concentration of at least 50 ppm and a Residual Disinfection <math>\geq 25</math> ppm at the end of 24 hours. Follow the line disinfection with thorough flushing and place the lines into service if, and only if, Coliform monitoring applicable to the line does not show the presence of Coliform. If Coliform is detected, repeat flushing of the line and Coliform monitoring. If Coliform is still detected, repeat disinfection and flushing as if the line has never been disinfected. Continue the described process until monitoring does not show the presence of Coliform. [401 KAR 8:150 Section 4(1), Recommended Standards for Water Works 8.5.6] This requirement is applicable during the following months: All Year. Statistical basis: Minimum.</p>

## Distribution-Water Line Extension

Northern KY Water Service  
Facility Requirements

Activity ID No.: APE20100008

Page 3 of 6

PORT0000000196 (continued):

### Limitation Requirements:

Condition No.	Parameter	Condition
L-12	Velocity	Each blow-off or fire hydrant shall be sized so that Velocity $\geq$ 2.5 ft/sec can be achieved in the water main served by the blow-off or hydrant during flushing. [Recommended Standards for Water Works 8.1.6.b, 401 KAR 8:100 Section 1(7)] This requirement is applicable during the following months: All Year. Statistical basis: Minimum.

### Monitoring Requirements:

Condition No.	Parameter	Condition
M-1	leaks	The presence or absence of leaks monitored by physical testing as needed shall be determined in all types of installed pipe. Pressure testing and leakage testing shall be in accordance with the latest edition of AWWA Standard C600. [Recommended Standards for Water Works 8.5.5] This requirement is applicable during the following months: All Year. Statistical basis: Instantaneous determination.

### Narrative Requirements:

#### Asbestos (Friable):

Condition No.	Condition
T-1	Asbestos (Friable): If the existing water line to be tapped is asbestos concrete, then the contractor shall conform to OSHA regulations governing the handling of hazardous waste during the process of tapping the asbestos concrete line. Pieces of asbestos concrete resulting from the tap shall be double bagged, placed in a rigid container and disposed of in an approved landfill. [401 KAR 8:100 Section 1(7)]

## Distribution-Water Line Extension

Northern KY Water Service  
Facility Requirements

Activity ID No.: APE20100008

Page 4 of 6

PORT0000000196 (continued):

### Narrative Requirements:

#### Additional Limitations:

Condition No.	Condition
T-2	Additional Limitations: Water line installation shall be in accordance with AWWA standards or manufacturer recommendations. [Recommended Standards for Water Works 8.5.1]
T-3	Additional Limitations: Pipes, fittings, valves and fire hydrants shall conform to the latest standards issued by the AWWA or NSF (if such standards exist). PVC and PE piping used must be certified to ANSI/NSF Standard 61. [Recommended Standards for Water Works 8.0.1]
T-4	Additional Limitations: At high points in water lines, where air can accumulate, provisions shall be made to remove the air by means of hydrants or air relief valves. Automatic air relief valves shall not be used in situations where manhole or chamber flooding may occur. [Recommended Standards for Water Works 8.4.1]
T-5	Additional Limitations: All tees, bends, plugs and hydrants shall be provided with reaction blocking, tie rods or joints designed to prevent movement. [Recommended Standards for Water Works 8.5.4]
T-6	Additional Limitations: A fire hydrant or blow-off shall be required at the end of each dead end line. [Recommended Standards for Water Works 8.1.6]
T-7	Additional Limitations: For each fire hydrant, auxiliary valves shall be installed in the hydrant lead pipe. [Recommended Standards for Water Works 8.3.3]
T-8	Additional Limitations: No flushing device, blow-off, or air relief valve shall be directly connected to any sewer. Chambers, pits or manholes containing valves, blow-offs, meters, or other such appurtenances shall not be directly connected to any storm drain or sanitary sewer. Such chambers, pits or manholes shall be drained to absorptions pits, underground or to the surface of the ground where they are not subject to flooding by surface water. [Recommended Standards for Water Works 8.1.6, Recommended Standards for Water Works 8.4.3]
T-9	Additional Limitations: If water lines are installed or replaced in areas of organic contamination or in areas within 200 ft of underground or petroleum storage tanks, ductile iron or other nonpermeable materials shall be used in all portions of the water line installation or replacement. [401 KAR 8:100 Section 1(5)(d)6, Recommended Standards for Water Works 8.0.2]

## Distribution-Water Line Extension

Northern KY Water Service  
Facility Requirements

Activity ID No.: APE20100008

Page 5 of 6

PORT0000000196 (continued):

### Narrative Requirements:

#### Additional Limitations:

Condition No.	Condition
T-10	Additional Limitations: No water pipe shall pass through or come in contact with any part of a sewer manhole. [Recommended Standards for Water Works 8.6.6]
T-11	Additional Limitations: If a fire sprinkler system is to be installed, a double check detector assembly approved for backflow prevention shall be utilized. The double check detector assembly of the system shall be accessible for testing. [401 KAR 8:100 Section 1(7)]
T-12	Additional Limitations: If water lines cross a stream or wetland, the provisions in the attached Water Quality Certification shall apply. If you have any questions please contact the Water Quality Certification Supervisor of the Water Quality Branch at (502) 564-2225. [401 KAR 8:100 Section 1(7)]

#### Subfluvial Pipe Crossings:

Condition No.	Condition
T-13	Subfluvial Pipe Crossings: For subfluvial pipe crossings, a floodplain construction permit will not be required pursuant to KRS 151.250 if the following requirements of 401 KAR 4:050 Section 2 are met. <ol style="list-style-type: none"><li>1) No material may be placed in the stream or in the flood plain of the stream to form construction pads, coffer dams, access roads, etc. during construction of pipe crossings.</li><li>2) Crossing trenches shall be backfilled as closely as possible to the original contour.</li><li>3) All excess material resulting from construction displacement in a crossing trench shall be disposed of outside the flood plain.</li><li>4) For erodible channels, there shall be at least 30 inches of backfill on top of all pipe or conduit points in the crossing.</li><li>5) For nonerodible channels, pipes or conduits in the crossing shall be encased on all sides by at least 6 inches of concrete with all pipe or conduit points in the crossing at least 6 inches below the original contour of the channel. [401 KAR 8:100 Section 1(7)]</li></ol>

## Distribution-Water Line Extension

Northern KY Water Service  
Facility Requirements

Activity ID No.: APE20100008

Page 6 of 6

PORT0000000196 (continued):

### Narrative Requirements:

#### Subfluvial Pipe Crossings:

Condition No.	Condition
T-14	<p>Subfluvial Pipe Crossings: For subfluvial pipe crossings greater than 15 feet in width,</p> <ol style="list-style-type: none"><li>1) the pipe shall be of special construction, having flexible, restrained, or welded watertight joints, and</li><li>2) valves shall be provided at both ends of water crossings so that the section can be isolated for testing or repair.</li></ol> <p>Valves shall</p> <ol style="list-style-type: none"><li>a) be easily accessible,</li><li>b) not be subject to flooding, and</li><li>c) if closest to the supply source, be in a manhole with permanent taps made on each side of the valve to allow insertion of a small meter to determine leakage and for sampling purposes. [Recommended Standards for Water Works 8.7.2]</li></ol>

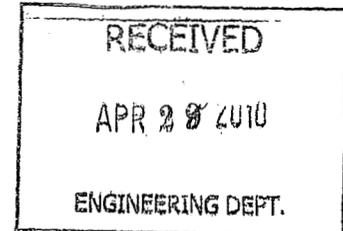
STEVEN L. BESHEAR  
GOVERNOR



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](http://www.kentucky.gov)

April 20, 2010



Mr. Brandon L Kuper  
Northern KY Water Service  
2835 Crescent Springs Rd  
Erlanger, KY 41018

RE: Northern KY Water Service  
AI # 2485, APE20100007  
PWSID # 0590220-10-007  
Sub-District H, Phase II  
Campbell County, KY

Dear Mr. Kuper:

We have reviewed the plans and specifications for the above referenced project. The plans include the construction of approximately 12,159 feet of 12 inch DI, 11,359 feet of 8 inch DI and 1,025 feet of 6 inch DI water mains. This is to advise that plans and specifications for the above referenced project are APPROVED with respect to sanitary features of design, as of this date with the requirements contained in the attached construction permit.

If you have any questions concerning this project, please contact Mr. Mohammed Mohiuddin at 502-564-8158 extension 4827.

Sincerely,

A handwritten signature in cursive script that reads "Solitha W. Dharman".

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

SD:MM

Enclosures

C: Viox & Viox Inc  
Campbell County Health Department  
Public Service Commission  
Division of Plumbing



## Distribution-Major Construction

Northern KY Water Service  
Facility Requirements

Activity ID No.: APE20100007

Page 1 of 6

PORT0000000197 (Waterline Extension) 12,159 feet of 12 inch DI, 11,359 feet of 8 inch DI and 1,025 feet of 6 inch DI:

### Limitation Requirements:

Condition No.	Parameter	Condition
L-1	Depth	A continuous and uniform bedding shall be provided in the trench for all buried pipe. Backfill material shall be tamped in layers around the pipe and to a sufficient height above the pipe to adequately support and protect the pipe. Stones found in the trench shall be removed for a Depth $\geq 6$ in below the bottom of the pipe. [Recommended Standards for Water Works 8.5.2] This requirement is applicable during the following months: All Year. Statistical basis: Not applicable.
L-2	Depth	All water lines shall be covered to a Depth $\geq 30$ in to prevent freezing. [Recommended Standards for Water Works 8.5.3, 401 KAR 8:100 Section 1(7)] This requirement is applicable during the following months: All Year. Statistical basis: Minimum.
L-3	Diameter	All new and existing water lines serving fire hydrants or where fire protection is provided shall have Diameter $\geq 6$ in. [Recommended Standards for Water Works 8.1.2] This requirement is applicable during the following months: All Year. Statistical basis: Minimum.
L-4	Distance	Water lines shall have a sufficient quantity of valves so that inconvenience and sanitary hazards will be minimized during repairs. A valve spacing Distance $\leq 800$ feet should be utilized in non-commercial districts. Alternatively, non-commercial districts should utilize a valve spacing Distance $\leq 1$ block. Commercial districts should utilize a valve spacing Distance $\leq 500$ ft. [Recommended Standards for Water Works 8.2] This requirement is applicable during the following months: All Year. Statistical basis: Not applicable.
L-5	Distance	Hydrant drains shall not be connected to sanitary sewers or storm drains and shall be located a Distance $> 10$ ft from sanitary sewers and storm drains. [Recommended Standards for Water Works 8.3.4] This requirement is applicable during the following months: All Year. Statistical basis: Not applicable.
L-6	Distance	Except when not practical, water lines shall be laid a horizontal Distance $\geq 10$ ft from any existing or proposed sewer. The distance shall be measured edge to edge. In cases where it is not practical to maintain a 10 foot separation, water lines may be installed closer to a sewer provided that the water lines shall be laid in a separate trench or on an undisturbed shelf located on one side of the sewer at such an elevation that the bottom of the water line is at least 18 inches above the top of the sewer. [Recommended Standards for Water Works 8.6.2] This requirement is applicable during the following months: All Year. Statistical basis: Not applicable.

## Distribution-Major Construction

Northern KY Water Service  
Facility Requirements

Activity ID No.: APE20100007

Page 2 of 6

PORT0000000197 (continued):

### Limitation Requirements:

Condition No.	Parameter	Condition
L-7	Distance	<p>When water lines and sewers cross,</p> <ol style="list-style-type: none"><li>1) water lines shall be laid such that either<ol style="list-style-type: none"><li>a) the the top of the water line is a vertical Distance <math>\geq 18</math> in below the bottom of the sewer line or</li><li>b) the bottom of the water line is a vertical Distance <math>\geq 18</math> in above the top of the sewer line,</li></ol></li><li>2) 1 full length of the water pipe shall be located so that both joints of the water pipe will be as far from the sewer as possible, and</li><li>3) special structural support for the water and sewer pipes may be required. [Recommended Standards for Water Works 8.6.3]</li></ol> <p>This requirement is applicable during the following months: All Year. Statistical basis: Not applicable.</p>
L-8	Distance	<p>The open end of an air relief pipe from automatic valves shall be extended a Distance <math>\geq 1.0</math> ft above grade and provided with a screened, downward-facing elbow. The pipe from a manually operated valve shall be extended to the top of the pit. Use of manual air relief valves is recommended wherever possible. [Recommended Standards for Water Works 8.4.2] This requirement is applicable during the following months: All Year. Statistical basis: Not applicable.</p>
L-9	Pressure	<p>Pipes shall not be installed unless all points of the distribution system remain designed for ground level Pressure <math>\geq 20</math> psi under all conditions of flow. [Recommended Standards for Water Works 8.1.1] This requirement is applicable during the following months: All Year. Statistical basis: Minimum.</p>
L-10	Pressure	<p>Pressure <math>\geq 30</math> psi must be available on the discharge side of all meters. [401 KAR 8:100 Section 4(2)] This requirement is applicable during the following months: All Year. Statistical basis: Instantaneous determination.</p>
L-11	Residual Disinfection	<p>New or relocated water lines shall be thoroughly disinfected (in accordance with AWWA Standard C651) upon completion of construction and before being placed into service. To disinfect the new or relocated lines use chlorine or chlorine compounds in such amounts as to produce an initial disinfectant concentration of at least 50 ppm and a Residual Disinfection <math>\geq 25</math> ppm at the end of 24 hours. Follow the line disinfection with thorough flushing and place the lines into service if, and only if, Coliform monitoring applicable to the line does not show the presence of Coliform.</p> <p>If Coliform is detected, repeat flushing of the line and Coliform monitoring. If Coliform is still detected, repeat disinfection and flushing as if the line has never been disinfected. Continue the described process until monitoring does not show the presence of Coliform. [401 KAR 8:150 Section 4(1), Recommended Standards for Water Works 8.5.6] This requirement is applicable during the following months: All Year. Statistical basis: Minimum.</p>

## Distribution-Major Construction

Northern KY Water Service  
Facility Requirements

Activity ID No.: APE20100007

Page 3 of 6

PORT0000000197 (continued):

### Limitation Requirements:

Condition No.	Parameter	Condition
L-12	Velocity	Each blow-off or fire hydrant shall be sized so that Velocity $\geq 2.5$ ft/sec can be achieved in the water main served by the blow-off or hydrant during flushing. [Recommended Standards for Water Works 8.1.6.b, 401 KAR 8:100 Section 1(7)] This requirement is applicable during the following months: All Year. Statistical basis: Minimum.

### Monitoring Requirements:

Condition No.	Parameter	Condition
M-1	leaks	The presence or absence of leaks monitored by physical testing as needed shall be determined in all types of installed pipe. Pressure testing and leakage testing shall be in accordance with the latest edition of AWWA Standard C600. [Recommended Standards for Water Works 8.5.5] This requirement is applicable during the following months: All Year. Statistical basis: Instantaneous determination.

### Narrative Requirements:

#### Asbestos (Friable):

Condition No.	Condition
T-1	Asbestos (Friable): If the existing water line to be tapped is asbestos concrete, then the contractor shall conform to OSHA regulations governing the handling of hazardous waste during the process of tapping the asbestos concrete line. Pieces of asbestos concrete resulting from the tap shall be double bagged, placed in a rigid container and disposed of in an approved landfill. [401 KAR 8:100 Section 1(7)]

## Distribution-Major Construction

Northern KY Water Service  
Facility Requirements

Activity ID No.: APE20100007

Page 4 of 6

PORT0000000197 (continued):

### Narrative Requirements:

#### Additional Limitations:

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Condition No.	Condition
T-2	Additional Limitations: Water line installation shall be in accordance with AWWA standards or manufacturer recommendations. [Recommended Standards for Water Works 8.5.1]
T-3	Additional Limitations: Pipes, fittings, valves and fire hydrants shall conform to the latest standards issued by the AWWA or NSF (if such standards exist). PVC and PE piping used must be certified to ANSI/NSF Standard 61. [Recommended Standards for Water Works 8.0.1]
T-4	Additional Limitations: At high points in water lines, where air can accumulate, provisions shall be made to remove the air by means of hydrants or air relief valves. Automatic air relief valves shall not be used in situations where manhole or chamber flooding may occur. [Recommended Standards for Water Works 8.4.1]
T-5	Additional Limitations: All tees, bends, plugs and hydrants shall be provided with reaction blocking, tie rods or joints designed to prevent movement. [Recommended Standards for Water Works 8.5.4]
T-6	Additional Limitations: A fire hydrant or blow-off shall be required at the end of each dead end line. [Recommended Standards for Water Works 8.1.6]
T-7	Additional Limitations: For each fire hydrant, auxiliary valves shall be installed in the hydrant lead pipe. [Recommended Standards for Water Works 8.3.3]
T-8	Additional Limitations: No flushing device, blow-off, or air relief valve shall be directly connected to any sewer. Chambers, pits or manholes containing valves, blow-offs, meters, or other such appurtenances shall not be directly connected to any storm drain or sanitary sewer. Such chambers, pits or manholes shall be drained to absorptions pits underground or to the surface of the ground where they are not subject to flooding by surface water. [Recommended Standards for Water Works 8.1.6, Recommended Standards for Water Works 8.4.3]
T-9	Additional Limitations: If water lines are installed or replaced in areas of organic contamination or in areas within 200 ft of underground or petroleum storage tanks, ductile iron or other nonpermeable materials shall be used in all portions of the water line installation or replacement. [401 KAR 8:100 Section 1(5)(d)6, Recommended Standards for Water Works 8.0.2]

## Distribution-Major Construction

Northern KY Water Service  
Facility Requirements

Activity ID No.: APE20100007

Page 5 of 6

ORT0000000197 (continued):

### Narrative Requirements:

#### Additional Limitations:

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Condition No.	Condition
T-10	Additional Limitations: No water pipe shall pass through or come in contact with any part of a sewer manhole. [Recommended Standards for Water Works 8.6.6]
T-11	Additional Limitations: If a fire sprinkler system is to be installed, a double check detector assembly approved for backflow prevention shall be utilized. The double check detector assembly of the system shall be accessible for testing. [401 KAR 8:100 Section 1(7)]
T-12	Additional Limitations: If water lines cross a stream or wetland, the provisions in the attached Water Quality Certification shall apply. If you have any questions please contact the Water Quality Certification Supervisor of the Water Quality Branch at (502) 564-2225. [401 KAR 8:100 Section 1(7)]

#### Subfluvial Pipe Crossings:

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Condition No.	Condition
T-13	Subfluvial Pipe Crossings: For subfluvial pipe crossings, a floodplain construction permit will not be required pursuant to KRS 151.250 if the following requirements of 401 KAR 4:050 Section 2 are met. <ol style="list-style-type: none"><li>1) No material may be placed in the stream or in the flood plain of the stream to form construction pads, coffer dams, access roads, etc. during construction of pipe crossings.</li><li>2) Crossing trenches shall be backfilled as closely as possible to the original contour.</li><li>3) All excess material resulting from construction displacement in a crossing trench shall be disposed of outside the flood plain.</li><li>4) For erodible channels, there shall be at least 30 inches of backfill on top of all pipe or conduit points in the crossing.</li><li>5) For nonerodible channels, pipes or conduits in the crossing shall be encased on all sides by at least 6 inches of concrete with all pipe or conduit points in the crossing at least 6 inches below the original contour of the channel. [401 KAR 8:100 Section 1(7)]</li></ol>

**Distribution-Major Construction**

Northern KY Water Service

Facility Requirements

Activity ID No.: APE20100007

PORT0000000197 (continued):

Narrative Requirements:

**Subfluvial Pipe Crossings:**

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Condition No.	Condition
T-14	<p>Subfluvial Pipe Crossings: For subfluvial pipe crossings greater than 15 feet in width,</p> <ol style="list-style-type: none"><li>1) the pipe shall be of special construction, having flexible, restrained, or welded watertight joints, and</li><li>2) valves shall be provided at both ends of water crossings so that the section can be isolated for testing or repair.</li></ol> <p>Valves shall</p> <ol style="list-style-type: none"><li>a) be easily accessible,</li><li>b) not be subject to flooding, and</li><li>c) if closest to the supply source, be in a manhole with permanent taps made on each side of the valve to allow insertion of a small meter to determine leakage and for sampling purposes. [Recommended Standards for Water Works 8.7.2]</li></ol>



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](http://www.kentucky.gov)

June 24, 2010

Brandon L. Kuper  
Northern KY Water Service  
2835 Crescent Spring Road  
Erlanger, Kentucky, 41018

RE: Northern KY Water Service  
AI # 2485, APE20100011  
PWSID # 0590220-10-011  
Sub-District H, Phase III WLE  
Campbell County, KY

Dear Mr. Kuper:

We have reviewed the plans and specifications for the above referenced project. The plans include the construction of approximately 18,110 LF of 8-inch DI and PVC Water Line. This is to advise that plans and specifications for the above referenced project are APPROVED with respect to sanitary features of design, as of this date with the requirements contained in the attached construction permit.

Based on the hydraulic analysis/data submitted, the areas served by the following extension(s) are considered to be underserved:

- a) Wesley Hill Road,
- b) Shababele Hill.

This designation indicates that without improvements to the existing infrastructure, future extensions may not be able to provide the required minimum pressure of 30 psi on the discharge side of customers' meters. Without improvements to the infrastructure, future extensions may be denied. The underserved designation may be used to help prioritize areas under the Governor's 2020 plan for funding future infrastructure improvements

If you have any questions concerning this project, please contact Mr. Mortaza Tabayeh at 502-564-3410 extension 4826

Sincerely,

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

SD:MT

Enclosures

C: James H. Viox Engineers Inc.  
Campbell County Health Department  
Public Service Commission  
Division of Plumbing

## Distribution-Major Construction

Northern KY Water Service  
Facility Requirements

Activity ID No.: APE20100011

Page 1 of 8

ACT0000000199 (Sub-District H Phase 3) 4,590 LF of 8-inch DI and 13,610 LF OF 8-inch PVC.:

### Monitoring Requirements:

Condition No.	Parameter	Condition
M-1	Coliform	The presence or absence of total Coliform monitored by sampling and analysis as needed shall be determined for the new or relocated water line(s). Take samples at connection points to existing lines, at 1 mile intervals, and at dead ends without omitting any branch of the new or relocated water line. Sample bottles shall be clearly identified as "special" construction tests. [401 KAR 8:100 Section 1(7), 401 KAR 8:150 Section 4, Recommended Standards for Water Works 8.5.6] This requirement is applicable during the following months: All Year. Statistical basis: Instantaneous determination.

### Submittal/Action Requirements:

#### Coliform:

Condition No.	Condition
S-1	Coliform For new construction projects, the distribution system, using the most expedient method, shall submit Coliform test results to the Cabinet: Due immediately following disinfection and flushing. [401 KAR 8:150 Section 4(2)]
S-2	For proposed changes to the approved plan, submit information: Due prior to any modification to the Cabinet for approval. Changes to the approved plan shall not be implemented without the prior written approval of the Cabinet. [401 KAR 8:100 Section 1(8)]
S-3	The person who presented the plans shall submit the professional engineer's certification: Due when construction is complete to the Division of Water. The certification shall be signed by a registered professional engineer and state that the water project has been constructed and tested in accordance with the approved plans, specifications, and requirements. [401 KAR 8:100 Section 1(8)]

## Distribution-Major Construction

Northern KY Water Service  
Facility Requirements

Activity ID No.: APE20100011

Page 2 of 8

ACT0000000199 (continued):

Narrative Requirements:

Additional Limitations:

Condition No.	Condition
T-1	Additional Limitations: Chlorinated water resulting from disinfection of project components shall be disposed in a manner which will not violate 401 KAR 5:031. [401 KAR 8:020 Section 2(20)]
T-2	This project has been permitted under the provisions of KRS Chapter 224 and regulations promulgated pursuant thereto. Issuance of this permit does not relieve the applicant from the responsibility of obtaining any other approvals, permits or licenses required by this Cabinet and other state, federal and local agencies. Further, this permit does not address the authority of the permittee to provide service to the area to be served. [401 KAR 8:100 Section 1(7)]
T-3	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. If you have any questions concerning this project, please contact the Drinking Water Branch at 502/564-3410. [401 KAR 8:100 Section 1(9)]
T-4	Final approval of facility. Upon completion of construction, the person who presented the plans shall certify in writing that the project has been completed in accordance with the "approved" plans and specifications. The public water supply shall operate the facility consistent with the approved plans and specifications. Any proposed change to the approved plan shall be submitted to the cabinet for approval. The public water supply shall not implement any change to the approved plan without the prior written approval of the cabinet. [401 KAR 8:100 Section 401 KAR 8:100(1)(8)]
T-5	During construction, a set of approved plans and specification shall be available at the job site at all times. All work shall be performed in accordance with the approved plans and specifications. [401 KAR 8:100 Section 1(7)(a)]

## Distribution-Major Construction

Northern KY Water Service  
Facility Requirements

Activity ID No.: APE20100011

Page 3 of 8

ORT0000000201 (Waterline Extension) 4,590 LF of 8-inch DI and 13,610 LF OF 8-inch PVC.:

### Limitation Requirements:

Condition No.	Parameter	Condition
L-1	Depth	A continuous and uniform bedding shall be provided in the trench for all buried pipe. Backfill material shall be tamped in layers around the pipe and to a sufficient height above the pipe to adequately support and protect the pipe. Stones found in the trench shall be removed for a Depth $\geq 6$ in below the bottom of the pipe. [Recommended Standards for Water Works 8.5.2] This requirement is applicable during the following months: All Year. Statistical basis: Not applicable.
L-2	Depth	All water lines shall be covered to a Depth $\geq 30$ in to prevent freezing. [Recommended Standards for Water Works 8.5.3, 401 KAR 8:100 Section 1(7)] This requirement is applicable during the following months: All Year. Statistical basis: Minimum.
L-3	Diameter	All new and existing water lines serving fire hydrants or where fire protection is provided shall have Diameter $\geq 6$ in. [Recommended Standards for Water Works 8.1.2] This requirement is applicable during the following months: All Year. Statistical basis: Minimum.
L-4	Distance	Water lines shall have a sufficient quantity of valves so that inconvenience and sanitary hazards will be minimized during repairs. A valve spacing Distance $\leq 800$ feet should be utilized in non-commercial districts. Alternatively, non-commercial districts should utilize a valve spacing Distance $\leq 1$ block. Commercial districts should utilize a valve spacing Distance $\leq 500$ ft. [Recommended Standards for Water Works 8.2] This requirement is applicable during the following months: All Year. Statistical basis: Not applicable.
L-5	Distance	Hydrant drains shall not be connected to sanitary sewers or storm drains and shall be located a Distance $> 10$ ft from sanitary sewers and storm drains. [Recommended Standards for Water Works 8.3.4] This requirement is applicable during the following months: All Year. Statistical basis: Not applicable.
L-6	Distance	Except when not practical, water lines shall be laid a horizontal Distance $\geq 10$ ft from any existing or proposed sewer. The distance shall be measured edge to edge. In cases where it is not practical to maintain a 10 foot separation, water lines may be installed closer to a sewer provided that the water lines shall be laid in a separate trench or on an undisturbed shelf located on one side of the sewer at such an elevation that the bottom of the water line is at least 18 inches above the top of the sewer. [Recommended Standards for Water Works 8.6.2] This requirement is applicable during the following months: All Year. Statistical basis: Not applicable.

## Distribution-Major Construction

Northern KY Water Service  
Facility Requirements

Activity ID No.: APE20100011

Page 4 of 8

ORT0000000201 (continued):

Limitation Requirements:

Condition No.	Parameter	Condition
L-7	Distance	<p>When water lines and sewers cross,</p> <ol style="list-style-type: none"><li>1) water lines shall be laid such that either<ol style="list-style-type: none"><li>a) the the top of the water line is a vertical Distance <math>\geq 18</math> in below the bottom of the sewer line or</li><li>b) the bottom of the water line is a vertical Distance <math>\geq 18</math> in above the top of the sewer line,</li></ol></li><li>2) 1 full length of the water pipe shall be located so that both joints of the water pipe will be as far from the sewer as possible, and</li><li>3) special structural support for the water and sewer pipes may be required. [Recommended Standards for Water Works 8.6.3] This requirement is applicable during the following months: All Year. Statistical basis: Not applicable.</li></ol>
L-8	Distance	<p>The open end of an air relief pipe from automatic valves shall be extended a Distance <math>\geq 1.0</math> ft above grade and provided with a screened, downward-facing elbow. The pipe from a manually operated valve shall be extended to the top of the pit. Use of manual air relief valves is recommended wherever possible. [Recommended Standards for Water Works 8.4.2] This requirement is applicable during the following months: All Year. Statistical basis: Not applicable.</p>
L-9	Pressure	<p>Pipes shall not be installed unless all points of the distribution system remain designed for ground level Pressure <math>\geq 20</math> psi under all conditions of flow. [Recommended Standards for Water Works 8.1.1] This requirement is applicable during the following months: All Year. Statistical basis: Minimum.</p>
L-10	Pressure	<p>Pressure <math>\geq 30</math> psi must be available on the discharge side of all meters. [401 KAR 8:100 Section 4(2)] This requirement is applicable during the following months: All Year. Statistical basis: Instantaneous determination.</p>
L-11	Residual Disinfection	<p>New or relocated water lines shall be thoroughly disinfected (in accordance with AWWA Standard C651) upon completion of construction and before being placed into service. To disinfect the new or relocated lines use chlorine or chlorine compounds in such amounts as to produce an initial disinfectant concentration of at least 50 ppm and a Residual Disinfection <math>\geq 25</math> ppm at the end of 24 hours. Follow the line disinfection with thorough flushing and place the lines into service if, and only if, Coliform monitoring applicable to the line does not show the presence of Coliform.</p> <p>If Coliform is detected, repeat flushing of the line and Coliform monitoring. If Coliform is still detected, repeat disinfection and flushing as if the line has never been disinfected. Continue the described process until monitoring does not show the presence of Coliform. [401 KAR 8:150 Section 4(1), Recommended Standards for Water Works 8.5.6] This requirement is applicable during the following months: All Year. Statistical basis: Minimum.</p>

## Distribution-Major Construction

Northern KY Water Service  
Facility Requirements

Activity ID No.: APE20100011

Page 5 of 8

DRT0000000201 (continued):

### Limitation Requirements:

Condition No.	Parameter	Condition
L-12	Velocity	<p>Except in underserved areas, each blow-off or fire hydrant shall be sized so that Velocity <math>\geq</math> 2.5 ft/sec can be achieved in the water main served by the blow-off or hydrant during flushing.</p> <p>Based on the hydraulic analysis/data submitted, the areas served by the following extension(s) are considered to be underserved:</p> <ul style="list-style-type: none"><li>a) Wesley Hill Road,</li><li>b) Shababele Hill.</li></ul> <p>This designation indicates that without improvements to the existing infrastructure, future extensions may not be able to provide the required minimum pressure of 30 psi on the discharge side of customers' meters. Without improvements to the infrastructure, future extensions may be denied. The underserved designation may be used to help prioritize areas under the Governor's 2020 plan for funding future infrastructure improvements. [Recommended Standards for Water Works 8.1.6.b, 401 KAR 8:100 Section 1(7)] This requirement is applicable during the following months: All Year. Statistical basis: Minimum.</p>

### Monitoring Requirements:

Condition No.	Parameter	Condition
M-1	leaks	<p>The presence or absence of leaks monitored by physical testing as needed shall be determined in all types of installed pipe. Pressure testing and leakage testing shall be in accordance with the latest edition of AWWA Standard C600. [Recommended Standards for Water Works 8.5.5]. This requirement is applicable during the following months: All Year. Statistical basis: Instantaneous determination.</p>

## Distribution-Major Construction

Northern KY Water Service  
Facility Requirements

Activity ID No.: APE20100011

Page 6 of 8

DRT0000000201 (continued):

### Narrative Requirements:

#### Asbestos (Friable):

Condition No.	Condition
T-1	Asbestos (Friable): If the existing water line to be tapped is asbestos concrete, then the contractor shall conform to OSHA regulations governing the handling of hazardous waste during the process of tapping the asbestos concrete line. Pieces of asbestos concrete resulting from the tap shall be double bagged, placed in a rigid container and disposed of in an approved landfill. [401 KAR 8:100 Section 1(7)]

#### Additional Limitations:

Condition No.	Condition
T-2	Additional Limitations: Water line installation shall be in accordance with AWWA standards or manufacturer recommendations. [Recommended Standards for Water Works 8.5.1]
T-3	Additional Limitations: Pipes, fittings, valves and fire hydrants shall conform to the latest standards issued by the AWWA or NSF (if such standards exist). PVC and PE piping used must be certified to ANSI/NSF Standard 61. [Recommended Standards for Water Works 8.0.1]
T-4	Additional Limitations: At high points in water lines, where air can accumulate, provisions shall be made to remove the air by means of hydrants or air relief valves. Automatic air relief valves shall not be used in situations where manhole or chamber flooding may occur. [Recommended Standards for Water Works 8.4.1]
T-5	Additional Limitations: All tees, bends, plugs and hydrants shall be provided with reaction blocking, tie rods or joints designed to prevent movement. [Recommended Standards for Water Works 8.5.4]
T-6	Additional Limitations: A fire hydrant or blow-off shall be required at the end of each dead end line. [Recommended Standards for Water Works 8.1.6]
T-7	Additional Limitations: For each fire hydrant, auxiliary valves shall be installed in the hydrant lead pipe. [Recommended Standards for Water Works 8.3.3]

## Distribution-Major Construction

Northern KY Water Service  
Facility Requirements

Activity ID No.: APE20100011

Page 7 of 8

DRT0000000201 (continued):

### Narrative Requirements:

#### Additional Limitations:

Condition No.	Condition
T-8	<p>Additional Limitations: No flushing device, blow-off, or air relief valve shall be directly connected to any sewer. Chambers, pits or manholes containing valves, blow-offs, meters, or other such appurtenances shall not be directly connected to any storm drain or sanitary sewer. Such chambers, pits or manholes shall be drained to absorptions pits underground or to the surface of the ground where they are not subject to flooding by surface water. [Recommended Standards for Water Works 8.1.6, Recommended Standards for Water Works 8.4.3]</p>
T-9	<p>Additional Limitations: If water lines are installed or replaced in areas of organic contamination or in areas within 200 ft of underground or petroleum storage tanks, ductile iron or other nonpermeable materials shall be used in all portions of the water-line installation or replacement. [401 KAR 8:100 Section 1(5)(d)6, Recommended Standards for Water Works 8.0.2]</p>
T-10	<p>Additional Limitations: No water pipe shall pass through or come in contact with any part of a sewer manhole. [Recommended Standards for Water Works 8.6.6]</p>
T-11	<p>Additional Limitations: If a fire sprinkler system is to be installed, a double check detector assembly approved for backflow prevention shall be utilized. The double check detector assembly of the system shall be accessible for testing. [401 KAR 8:100 Section 1(7)]</p>
T-12	<p>Additional Limitations: If water lines cross a stream or wetland, the provisions in the attached Water Quality Certification shall apply. If you have any questions please contact the Water Quality Certification Supervisor of the Water Quality Branch at (502) 564-2225. [401 KAR 8:100 Section 1(7)]</p>
T-13	<p>Additional Limitations: Since the proposed ? Road water line will have a small number of customers, water turnover/water quality problems may result. Therefore, the water quality in this line extension shall be monitored on a regular basis and appropriate corrective action, including but not limited to flushing at 2.5 feet per second, shall be taken as required. [401 KAR 8:100 Section 1(7)]</p>

## Distribution-Major Construction

Northern KY Water Service  
Facility Requirements

Activity ID No.: APE20100011

Page 8 of 8

ORT000000201 (continued):

Narrative Requirements:

### Subfluvial Pipe Crossings:

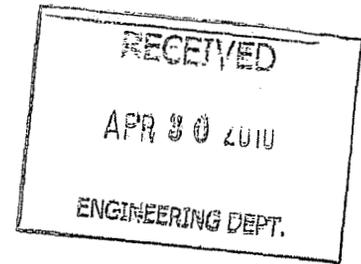
Condition No.	Condition
T-14	<p>Subfluvial Pipe Crossings: For subfluvial pipe crossings, a floodplain construction permit will not be required pursuant to KRS 151.250 if the following requirements of 401 KAR 4:050 Section 2 are met.</p> <ol style="list-style-type: none"><li>1) No material may be placed in the stream or in the flood plain of the stream to form construction pads, coffer dams, access roads, etc. during construction of pipe crossings.</li><li>2) Crossing trenches shall be backfilled as closely as possible to the original contour.</li><li>3) All excess material resulting from construction displacement in a crossing trench shall be disposed of outside the flood plain.</li><li>4) For erodible channels, there shall be at least 30 inches of backfill on top of all pipe or conduit points in the crossing.</li><li>5) For nonerodible channels, pipes or conduits in the crossing shall be encased on all sides by at least 6 inches of concrete with all pipe or conduit points in the crossing at least 6 inches below the original contour of the channel. [401 KAR 8:100 Section 1(7)]</li></ol>
T-15	<p>Subfluvial Pipe Crossings: For subfluvial pipe crossings greater than 15 feet in width,</p> <ol style="list-style-type: none"><li>1) the pipe shall be of special construction, having flexible, restrained, or welded watertight joints, and</li><li>2) valves shall be provided at both ends of water crossings so that the section can be isolated for testing or repair.</li></ol> <p>Valves shall</p> <ol style="list-style-type: none"><li>a) be easily accessible,</li><li>b) not be subject to flooding, and</li><li>c) if closest to the supply source, be in a manhole with permanent taps made on each side of the valve to allow insertion of a small meter to determine leakage and for sampling purposes. [Recommended Standards for Water Works 8.7.2]</li></ol>

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](http://www.kentucky.gov)



April 22, 2010

Amy Kramer  
Northern Kentucky Water District  
2835 Crescent Springs Road  
Erlanger, KY 41018

RE: Northern KY Water Service  
AI # 2485, APE20100006  
PWSID # 0590220-10-006  
Permit *PHASE IV*  
Campbell County, KY

Dear Amy Kramer:

We have reviewed the plans and specifications for the above referenced project. The plans include the construction of approximately 1,980 Linear Feet of 8 inch D.I.; 5,430 Linear Feet of 8 inch PVC; 450 Linear Feet of 6" PVC. This is to advise that plans and specifications for the above referenced project are APPROVED with respect to sanitary features of design, as of this date with the requirements contained in the attached construction permit.

If you have any questions concerning this project, please contact Daniel Kulik at 502-564-8158 ext. 4828.

Sincerely,

A handwritten signature in cursive script that reads "Solitha W. Dharman".

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

SD:DK

Enclosures

C: Viox & Viox Engineers, Inc.  
Campbell County Health Department  
Public Service Commission  
Division of Plumbing

The word "Kentucky" written in a stylized, cursive font with a horse head silhouette integrated into the lettering.

## Distribution-Water Line Extension

Northern KY Water Service  
Facility Requirements

Activity ID No.: APE20100006

**ACT0000000197 (Sub-District H, Phase IV) 1,980 Linear Feet of 8 inch D.I.; 5,430 Linear Feet of 8 inch PVC; 450 Linear Feet of 6" PVC:**

**Monitoring Requirements:**

Condition No.	Parameter	Condition
M-1	Coliform	The presence or absence of total Coliform monitored by sampling and analysis as needed shall be determined for the new or relocated water line(s). Take samples at connection points to existing lines, at 1 mile intervals, and at dead ends without omitting any branch of the new or relocated water line. Sample bottles shall be clearly identified as "special" construction tests. [401 KAR 8:100 Section 1(7), 401 KAR 8:150 Section 4, Recommended Standards for Water Works 8.5.6] This requirement is applicable during the following months: All Year. Statistical basis: Instantaneous determination.

**Submittal/Action Requirements:**

**Coliform:**

Condition No.	Condition
S-1	Coliform For new construction projects, the distribution system, using the most expedient method, shall submit Coliform test results to the Cabinet: Due immediately following disinfection and flushing. [401 KAR 8:150 Section 4(2)]

Condition No.	Condition
S-2	For proposed changes to the approved plan, submit information: Due prior to any modification to the Cabinet for approval. Changes to the approved plan shall not be implemented without the prior written approval of the Cabinet. [401 KAR 8:100 Section 1(8)]
S-3	The person who presented the plans shall submit the professional engineer's certification: Due when construction is complete to the Division of Water. The certification shall be signed by a registered professional engineer and state that the water project has been constructed and tested in accordance with the approved plans, specifications, and requirements. [401 KAR 8:100 Section 1(8)]

# Distribution-Water Line Extension

Northern KY Water Service  
Facility Requirements

Activity ID No.: APE20100006

Page 2 of 7

ACT0000000197 (continued):

Narrative Requirements:

Additional Limitations:

Condition No.	Condition
T-1	Additional Limitations: Chlorinated water resulting from disinfection of project components shall be disposed in a manner which will not violate 401 KAR 5:031. [401 KAR 8:020 Section 2(20)]
T-2	This project has been permitted under the provisions of KRS Chapter 224 and regulations promulgated pursuant thereto. Issuance of this permit does not relieve the applicant from the responsibility of obtaining any other approvals, permits or licenses required by this Cabinet and other state, federal and local agencies. Further, this permit does not address the authority of the permittee to provide service to the area to be served. [401 KAR 8:100 Section 1(7)]
T-3	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. If you have any questions concerning this project, please contact the Drinking Water Branch at 502/564-3410. [401 KAR 8:100 Section 1(9)]
T-4	Final approval of facility. Upon completion of construction, the person who presented the plans shall certify in writing that the project has been completed in accordance with the "approved" plans and specifications. The public water supply shall operate the facility consistent with the approved plans and specifications. Any proposed change to the approved plan shall be submitted to the cabinet for approval. The public water supply shall not implement any change to the approved plan without the prior written approval of the cabinet. [401 KAR 8:100 Section 401 KAR 8:100(1)(8)]
T-5	During construction, a set of approved plans and specification shall be available at the job site at all times. All work shall be performed in accordance with the approved plans and specifications. [401 KAR 8:100 Section 1(7)(a)]

## Distribution-Water Line Extension

Northern KY Water Service  
Facility Requirements

Activity ID No.: APE20100006

**ORT0000000199 (Water Line ) 1,980 Linear Feet of 8 inch D.I.; 5,430 Linear Feet of 8 inch PVC; 450 Linear Feet of 6" PVC:**

### Limitation Requirements:

Condition No.	Parameter	Condition
L-1	Depth	A continuous and uniform bedding shall be provided in the trench for all buried pipe. Backfill material shall be tamped in layers around the pipe and to a sufficient height above the pipe to adequately support and protect the pipe. Stones found in the trench shall be removed for a Depth $\geq 6$ in below the bottom of the pipe. [Recommended Standards for Water Works 8.5.2] This requirement is applicable during the following months: All Year. Statistical basis: Not applicable.
L-2	Depth	All water lines shall be covered to a Depth $\geq 30$ in to prevent freezing. [Recommended Standards for Water Works 8.5.3, 401 KAR 8:100 Section 1(7)] This requirement is applicable during the following months: All Year. Statistical basis: Minimum.
L-3	Diameter	All new and existing water lines serving fire hydrants or where fire protection is provided shall have Diameter $\geq 6$ in. [Recommended Standards for Water Works 8.1.2] This requirement is applicable during the following months: All Year. Statistical basis: Minimum.
L-4	Distance	Water lines shall have a sufficient quantity of valves so that inconvenience and sanitary hazards will be minimized during repairs. A valve spacing Distance $\leq 1.0$ mi should be utilized. [Recommended Standards for Water Works 8.2] This requirement is applicable during the following months: All Year. Statistical basis: Not applicable.
L-5	Distance	Hydrant drains shall not be connected to sanitary sewers or storm drains and shall be located a Distance $> 10$ ft from sanitary sewers and storm drains. [Recommended Standards for Water Works 8.3.4] This requirement is applicable during the following months: All Year. Statistical basis: Not applicable.
L-6	Distance	Except when not practical, water lines shall be laid a horizontal Distance $\geq 10$ ft from any existing or proposed sewer. The distance shall be measured edge to edge. In cases where it is not practical to maintain a 10 foot separation, water lines may be installed closer to a sewer provided that the water lines shall be laid in a separate trench or on an undisturbed shelf located on one side of the sewer at such an elevation that the bottom of the water line is at least 18 inches above the top of the sewer. [Recommended Standards for Water Works 8.6.2] This requirement is applicable during the following months: All Year. Statistical basis: Not applicable.

## Distribution-Water Line Extension

Northern KY Water Service  
Facility Requirements

Activity ID No.: APE20100006

Page 4 of 7

ORT0000000199 (continued):

Limitation Requirements:

Condition No.	Parameter	Condition
L-7	Distance	<p>When water lines and sewers cross,</p> <ol style="list-style-type: none"> <li>1) water lines shall be laid such that either               <ol style="list-style-type: none"> <li>a) the the top of the water line is a vertical Distance <math>\geq 18</math> in below the bottom of the sewer line or</li> <li>b) the bottom of the water line is a vertical Distance <math>\geq 18</math> in above the top of the sewer line,</li> </ol> </li> <li>2) 1 full length of the water pipe shall be located so that both joints of the water pipe will be as far from the sewer as possible, and</li> <li>3) special structural support for the water and sewer pipes may be required. [Recommended Standards for Water Works 8.6.3]</li> </ol> <p>This requirement is applicable during the following months: All Year. Statistical basis: Not applicable.</p>
L-8	Distance	<p>The open end of an air relief pipe from automatic valves shall be extended a Distance <math>\geq 1.0</math> ft above grade and provided with a screened, downward-facing elbow. The pipe from a manually operated valve shall be extended to the top of the pit. Use of manual air relief valves is recommended wherever possible. [Recommended Standards for Water Works 8.4.2] This requirement is applicable during the following months: All Year. Statistical basis: Not applicable.</p>
L-9	Pressure	<p>Pipes shall not be installed unless all points of the distribution system remain designed for ground level Pressure <math>\geq 20</math> psi under all conditions of flow. [Recommended Standards for Water Works 8.1.1] This requirement is applicable during the following months: All Year. Statistical basis: Minimum.</p>
L-10	Pressure	<p>Pressure <math>\geq 30</math> psi must be available on the discharge side of all meters. [401 KAR 8:100 Section 4(2)] This requirement is applicable during the following months: All Year. Statistical basis: Instantaneous determination.</p>
L-11	Residual Disinfection	<p>New or relocated water lines shall be thoroughly disinfected (in accordance with AWWA Standard C651) upon completion of construction and before being placed into service. To disinfect the new or relocated lines use chlorine or chlorine compounds in such amounts as to produce an initial disinfectant concentration of at least 50 ppm and a Residual Disinfection <math>\geq 25</math> ppm at the end of 24 hours. Follow the line disinfection with thorough flushing and place the lines into service if, and only if, Coliform monitoring applicable to the line does not show the presence of Coliform. If Coliform is detected, repeat flushing of the line and Coliform monitoring. If Coliform is still detected, repeat disinfection and flushing as if the line has never been disinfected. Continue the described process until monitoring does not show the presence of Coliform. [401 KAR 8:150 Section 4(1), Recommended Standards for Water Works 8.5.6] This requirement is applicable during the following months: All Year. Statistical basis: Minimum.</p>

## Distribution-Water Line Extension

Northern KY Water Service  
Facility Requirements

Activity ID No.: APE20100006

Page 5 of 7

WRT0000000199 (continued):

Limitation Requirements:

Condition No.	Parameter	Condition
L-12	Velocity	Each blow-off or fire hydrant shall be sized so that Velocity $\geq 2.5$ ft/sec can be achieved in the water main served by the blow-off or hydrant during flushing. [Recommended Standards for Water Works 8.1.6.b, 401 KAR 8:100 Section 1(7)] This requirement is applicable during the following months: All Year. Statistical basis: Minimum.

Monitoring Requirements:

Condition No.	Parameter	Condition
M-1	leaks	The presence or absence of leaks monitored by physical testing as needed shall be determined in all types of installed pipe. Pressure testing and leakage testing shall be in accordance with the latest edition of AWWA Standard C600. [Recommended Standards for Water Works 8.5.5] This requirement is applicable during the following months: All Year. Statistical basis: Instantaneous determination.

Narrative Requirements:

### Asbestos (Friable):

Condition No.	Condition
T-1	Asbestos (Friable): If the existing water line to be tapped is asbestos concrete, then the contractor shall conform to OSHA regulations governing the handling of hazardous waste during the process of tapping the asbestos concrete line. Pieces of asbestos concrete resulting from the tap shall be double bagged, placed in a rigid container and disposed of in an approved landfill. [401 KAR 8:100 Section 1(7)]

## Distribution-Water Line Extension

Northern KY Water Service  
Facility Requirements

Activity ID No.: APE20100006

Page 6 of 7

DRT0000000199 (continued):

Narrative Requirements:

### Additional Limitations:

Condition No.	Condition
T-2	Additional Limitations: Water line installation shall be in accordance with AWWA standards or manufacturer recommendations. [Recommended Standards for Water Works 8.5.1]
T-3	Additional Limitations: Pipes, fittings, valves and fire hydrants shall conform to the latest standards issued by the AWWA or NSF (if such standards exist). PVC and PE piping used must be certified to ANSI/NSF Standard 61. [Recommended Standards for Water Works 8.0.1]
T-4	Additional Limitations: At high points in water lines, where air can accumulate, provisions shall be made to remove the air by means of hydrants or air relief valves. Automatic air relief valves shall not be used in situations where manhole or chamber flooding may occur. [Recommended Standards for Water Works 8.4.1]
T-5	Additional Limitations: All tees, bends, plugs and hydrants shall be provided with reaction blocking, tie rods or joints designed to prevent movement. [Recommended Standards for Water Works 8.5.4]
T-6	Additional Limitations: A fire hydrant or blow-off shall be required at the end of each dead end line. [Recommended Standards for Water Works 8.1.6]
T-7	Additional Limitations: For each fire hydrant, auxiliary valves shall be installed in the hydrant lead pipe. [Recommended Standards for Water Works 8.3.3]
T-8	Additional Limitations: No flushing device, blow-off, or air relief valve shall be directly connected to any sewer. Chambers, pits or manholes containing valves, blow-offs, meters, or other such appurtenances shall not be directly connected to any storm drain or sanitary sewer. Such chambers, pits or manholes shall be drained to absorptions pits underground or to the surface of the ground where they are not subject to flooding by surface water. [Recommended Standards for Water Works 8.1.6, Recommended Standards for Water Works 8.4.3]
T-9	Additional Limitations: If water lines are installed or replaced in areas of organic contamination or in areas within 200 ft of underground or petroleum storage tanks, ductile iron or other nonpermeable materials shall be used in all portions of the water line installation or replacement. [401 KAR 8:100 Section 1(5)(d)6, Recommended Standards for Water Works 8.0.2]

## Distribution-Water Line Extension

Northern KY Water Service  
Facility Requirements

Activity ID No.: APE20100006

Page 7 of 7

ORT0000000199 (continued):

Narrative Requirements:

**Additional Limitations:**

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Condition

No. Condition

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- |      |   |
|------|---|
| T-10 | Additional Limitations:<br>No water pipe shall pass through or come in contact with any part of a sewer manhole. [Recommended Standards for Water Works 8.6.6]  |
| T-11 | Additional Limitations:<br>If a fire sprinkler system is to be installed, a double check detector assembly approved for backflow prevention shall be utilized. The double check detector assembly of the system shall be accessible for testing. [401 KAR 8:100 Section 1(7)] |

# Northern Kentucky Water District

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Franchises required – None

Plan Review and Permit Status - The District has reviewed and approved the specifications prepared Viox and Viox Engineering titled “Sub-district H Water Main Extension Project (Phases I, II, III, and IV)” dated October 2010.

The District received approval from the Division of Water on May 8, 2010 for phases I, II, and IV and June 24, 2010 for phase III. (See attached letters).

Easements and Right-of-Way Status – Easements for this project are being procured and all Right-of-Way statements have been submitted.

Start date of construction – January 16, 2011

Proposed date in service – May 16, 2011

Plant retirements – No plant retirements.



# NORTHERN KENTUCKY WATER DISTRICT

## Sub-district H Water Main Extension Project

### Campbell County, Kentucky

#### Project 184-654

## BID INFORMATION AND BOARD MEETING MINUTES

Bid Tabulation

Engineer's Recommendation of Award

Board Meeting Minutes

Case No. 2010-\_\_\_\_  
Exhibit \_\_\_\_\_ C

# NORTHERN KENTUCKY WATER DISTRICT

Sub-district H Water Main Extension Project

Campbell County, Kentucky

Project 184-654

## Bid Tabulation

**BID TABULATIONS FOR  
NORTHERN KY WATER DISTRICT  
SUB-DISTRICT H  
PHASE 1 - RIFLE RANGE**

No. 7390 P. 3

EM No.	DESCRIPTION	UNIT OF MEASURE	ESTIMATED QUANTITY	M&W EXCAVATION COMPANY, INC.		PRUS CONSTRUCTION CO.		NOTES	FORD DEVELOPMENT CORP.		BRACKNEY INC.	
				UNIT COST TOTAL	TOTAL COST	UNIT COST TOTAL	TOTAL COST		UNIT COST TOTAL	TOTAL COST	UNIT COST TOTAL	TOTAL COST
1	6.01 8" CLASS 50 DUCTILE IRON PIPE (Detail 103, 103a, 104, 104a, 110)	LF	5,605	\$36.00	\$201,780.00	\$54.75	\$306,873.75		\$50.75	\$284,453.75	\$52.10	\$292,020.50
2	6.02.B 8" CLASS 50 DUCTILE IRON PIPE-RESTRAINED JOINT (Detail 103, 103a, 104, 104a, 110)	LF	500	\$43.00	\$21,500.00	\$55.25	\$27,625.00		\$60.00	\$30,000.00	\$42.50	\$21,250.00
3	6.03 6" C-900 POLYVINYL CHLORIDE (PVC). (Detail 103, 103a, 104, 104a, 110)	LF	10	\$28.00	\$280.00	\$125.00	\$1,250.00		\$65.00	\$650.00	\$52.00	\$520.00
4	6.03 8" C-900 POLYVINYL CHLORIDE (PVC). (Detail 103, 103a, 104, 104a, 110)	LF	1,946	\$29.00	\$56,434.00	\$38.50	\$74,921.00	*1	\$45.00	\$87,570.00	\$40.00	\$77,840.00
5	7.01 CONNECT TO EXISTING 6" MAIN	EA	2	\$250.00	\$500.00	\$1,500.00	\$3,000.00		\$4,000.00	\$8,000.00	\$1,200.00	\$2,400.00
6	7.01 CONNECT TO EXISTING 8" MAIN	EA	1	\$300.00	\$300.00	\$2,850.00	\$2,850.00		\$5,000.00	\$5,000.00	\$2,285.00	\$2,285.00
7	7.02 12"-8" TAPPING SLEEVE & VALVE	EA	1	\$3,800.00	\$3,800.00	\$4,200.00	\$4,200.00		\$4,000.00	\$4,000.00	\$5,605.00	\$5,605.00
8	8.01 INSTALL FIRE HYDRANT ASSEMBLY	EA	4	\$3,000.00	\$12,000.00	\$3,400.00	\$13,600.00		\$5,000.00	\$20,000.00	\$3,180.00	\$12,720.00
9	8.01HP INSTALL FIRE HYDRANT ASSEMBLY (HIGH PRESSURE)	EA	8	\$3,100.00	\$24,800.00	\$4,000.00	\$32,000.00		\$5,500.00	\$44,000.00	\$3,850.00	\$30,800.00
10	9.01 6" DUCTILE IRON RESILIENT SEATED GATE VALVE	EA	2	\$700.00	\$1,400.00	\$1,000.00	\$2,000.00		\$800.00	\$1,600.00	\$1,200.00	\$2,400.00
11	9.01 8" DUCTILE IRON RESILIENT SEATED GATE VALVE	EA	6	\$950.00	\$5,700.00	\$1,375.00	\$8,250.00		\$1,000.00	\$6,000.00	\$1,600.00	\$9,600.00
12	11.01 CONCRETE ENCASMENT	LF	120	\$50.00	\$6,000.00	\$22.00	\$2,640.00		\$40.00	\$4,800.00	\$48.00	\$5,760.00
13	11.04 8" PLUG AND BLOCK	EA	4	\$100.00	\$400.00	\$400.00	\$1,600.00		\$400.00	\$1,600.00	\$165.00	\$660.00
14	11.05 AIR RELEASE VALVE (MATERIALS SUPPLIED BY NKWD)	EA	6	\$500.00	\$3,000.00	\$740.00	\$4,440.00		\$500.00	\$3,000.00	\$980.00	\$5,880.00
15	11.06 8"x8x6" ANCHORING TEES AND BLOCKS	EA	12	\$400.00	\$4,800.00	\$250.00	\$3,000.00		\$500.00	\$6,000.00	\$155.00	\$1,860.00
16	11.09 8"-6" REDUCER	EA	2	\$150.00	\$300.00	\$100.00	\$200.00		\$400.00	\$800.00	\$140.00	\$280.00
17	11.11 TEST TAP	EA	2	\$500.00	\$1,000.00	\$875.00	\$1,750.00		\$100.00	\$200.00	\$1,365.00	\$2,730.00

Oct. 15, 2010 4:32 PM

**BID TABULATIONS FOR  
NORTHERN KY WATER DISTRICT  
SUB-DISTRICT H  
PHASE 1 - RIFLE RANGE**

No. 7390 P. 4

Oct. 15, 2010 4:33PM

ITEM No.	DESCRIPTION	UNIT OF MEASURE	ESTIMATED QUANTITY	HUBERT EXCAVATING & CONTRACTING, LLC		LYKINS CONTRACTING INC.		T. LUCKEY & SONS, INC.		RACK & BALLAUER EXCAVATING CO., INC.	
				UNIT COST TOTAL	TOTAL COST	UNIT COST TOTAL	TOTAL COST	UNIT COST TOTAL	TOTAL COST	UNIT COST TOTAL	TOTAL COST
1	6.01 8" CLASS 50 DUCTILE IRON PIPE (Detail 103, 103a, 104, 104a, 110)	LF	5,605	\$53.00	\$297,065.00	\$68.00	\$381,140.00	\$60.00	\$336,300.00	\$73.50	\$411,967.50
2	6.02.B 8" CLASS 50 DUCTILE IRON PIPE-RESTRAINED JOINT (Detail 103, 103a, 104, 104a, 110)	LF	500	\$58.00	\$29,000.00	\$44.00	\$22,000.00	\$70.00	\$35,000.00	\$83.33	\$41,665.00
3	6.03 6" C-900 POLYVINYL CHLORIDE (PVC). (Detail 103, 103a, 104, 104a, 110)	LF	10	\$47.00	\$470.00	\$44.00	\$440.00	\$45.00	\$450.00	\$70.00	\$700.00
4	6.03 8" C-900 POLYVINYL CHLORIDE (PVC). (Detail 103, 103a, 104, 104a, 110)	LF	1,946	\$47.00	\$91,462.00	\$26.00	\$50,596.00	\$45.00	\$87,570.00	\$67.00	\$130,382.00
5	7.01 CONNECT TO EXISTING 6" MAIN	EA	2	\$750.00	\$1,500.00	\$2,635.00	\$5,270.00	\$750.00	\$1,500.00	\$250.00	\$500.00
6	7.01 CONNECT TO EXISTING 8" MAIN	EA	1	\$850.00	\$850.00	\$2,635.00	\$2,635.00	\$750.00	\$750.00	\$250.00	\$250.00
7	7.02 12"-8" TAPPING SLEEVE & VALVE	EA	1	\$3,900.00	\$3,900.00	\$6,050.00	\$6,050.00	\$4,750.00	\$4,750.00	\$4,400.00	\$4,400.00
8	8.01 INSTALL FIRE HYDRANT ASSEMBLY	EA	4	\$2,900.00	\$11,600.00	\$2,690.00	\$10,760.00	\$3,750.00	\$15,000.00	\$3,100.00	\$12,400.00
9	8.01HP INSTALL FIRE HYDRANT ASSEMBLY (HIGH PRESSURE)	EA	8	\$4,000.00	\$32,000.00	\$3,230.00	\$25,840.00	\$5,250.00	\$42,000.00	\$3,800.00	\$30,400.00
10	9.01 6" DUCTILE IRON RESILIENT SEATED GATE VALVE	EA	2	\$825.00	\$1,650.00	\$725.00	\$1,450.00	\$1,000.00	\$2,000.00	\$542.19	\$1,084.38
11	9.01 8" DUCTILE IRON RESILIENT SEATED GATE VALVE	EA	6	\$1,100.00	\$6,600.00	\$1,053.00	\$6,318.00	\$1,200.00	\$7,200.00	\$850.00	\$5,100.00
12	11.01 CONCRETE ENCASMENT	LF	120	\$60.00	\$7,200.00	\$42.00	\$5,040.00	\$50.00	\$6,000.00	\$35.00	\$4,200.00
13	11.04 8" PLUG AND BLOCK	EA	4	\$400.00	\$1,600.00	\$325.00	\$1,300.00	\$200.00	\$800.00	\$75.00	\$300.00
14	11.05 AIR RELEASE VALVE (MATERIALS SUPPLIED BY NKWD)	EA	6	\$350.00	\$2,100.00	\$250.00	\$1,500.00	\$500.00	\$3,000.00	\$600.00	\$3,600.00
15	11.06 8"x8"x6" ANCHORING TEES AND BLOCKS	EA	12	\$400.00	\$4,800.00	\$280.00	\$3,360.00	\$450.00	\$5,400.00	\$215.00	\$2,580.00
16	11.09 8"-6" REDUCER	EA	2	\$300.00	\$600.00	\$180.00	\$360.00	\$200.00	\$400.00	\$90.00	\$180.00
17	11.11 TEST TAP	EA	2	\$350.00	\$700.00	\$500.00	\$1,000.00	\$500.00	\$1,000.00	\$950.00	\$1,900.00

**BID TABULATIONS FOR  
NORTHERN KY WATER DISTRICT  
SUB-DISTRICT H  
PHASE 1 - RIFLE RANGE**

No. 7590 - P. 5

EM No.	DESCRIPTION	UNIT OF MEASURE	ESTIMATED QUANTITY	M&W EXCAVATION COMPANY, INC.		PRUS CONSTRUCTION CO.		NOTES	FORD DEVELOPMENT CORP.		BRACKNEY INC.	
				UNIT COST TOTAL	TOTAL COST	UNIT COST TOTAL	TOTAL COST		UNIT COST TOTAL	TOTAL COST	UNIT COST TOTAL	TOTAL COST
18	12.05 ASPHALTIC CONCRETE MILLING AND PAVING	SY	4,250	\$8.00	\$34,000.00	\$7.50	\$31,875.00		\$10.75	\$45,687.50	\$10.70	\$45,475.00
19	12.06 ASPHALTIC CONCRETE	SY	1,200	\$50.00	\$60,000.00	\$44.25	\$53,100.00		\$25.00	\$30,000.00	\$49.15	\$58,980.00
20	12.07 ASPHALTIC DRIVEWAY	SY	45	\$55.00	\$2,475.00	\$60.00	\$2,700.00		\$25.00	\$1,125.00	\$128.00	\$5,760.00
21	12.10 CONCRETE DRIVEWAY	SY	175	\$40.00	\$7,000.00	\$54.00	\$9,450.00		\$45.00	\$7,875.00	\$77.00	\$13,475.00
22	12.11 CONCRETE CURBING	SY	300	\$40.00	\$12,000.00	\$8.00	\$2,400.00		\$20.00	\$6,000.00	\$85.00	\$25,500.00
23	12.12 CONCRETE SIDEWALK	SY	10	\$50.00	\$500.00	\$68.00	\$680.00		\$70.00	\$700.00	\$15.10	\$151.00
24	12.12 GRAVEL DRIVEWAY/PARKING AREA	SY	240	\$10.00	\$2,400.00	\$9.40	\$2,256.00		\$20.00	\$4,800.00	\$5.00	\$1,200.00
25	12.14 BEST MANAGEMENT PRACTICE (SWPPP)	LS	1	\$13,000.00	\$13,000.00	\$2,300.00	\$2,300.00		\$1,000.00	\$1,000.00	\$6,300.00	\$6,300.00
	<b>TOTAL CONTRACTOR BID</b>				<b>\$475,369.00</b>		<b>\$594,960.75</b>	*2		<b>\$604,861.25</b>		<b>\$631,451.50</b>
<b>NOTES:</b>												
1) Prus Construction had a math error on bid item #4. They showed \$75,614.00 The correct amount should be \$74,921.00.												

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**BID TABULATIONS FOR  
NORTHERN KY WATER DISTRICT  
SUB-DISTRICT H  
PHASE 1 - RIFLE RANGE**

No. 7390 P. 6

ITEM No.	DESCRIPTION	UNIT OF MEASURE	ESTIMATED QUANTITY	HUBERT EXCAVATING & CONTRACTING, LLC		LYKINS CONTRACTING INC.		T. LUCKEY & SONS, INC.		RACK & BALLAUER EXCAVATING CO., INC.	
				UNIT COST TOTAL	TOTAL COST	UNIT COST TOTAL	TOTAL COST	UNIT COST TOTAL	TOTAL COST	UNIT COST TOTAL	TOTAL COST
18	12.05 ASPHALTIC CONCRETE MILLING AND PAVING	SY	4,250	\$9.50	\$40,375.00	\$9.00	\$38,250.00	\$8.50	\$36,125.00	\$10.80	\$45,900.00
19	12.06 ASPHALTIC CONCRETE	SY	1,200	\$46.00	\$55,200.00	\$42.80	\$51,360.00	\$45.00	\$54,000.00	\$40.00	\$48,000.00
20	12.07 ASPHALTIC DRIVEWAY	SY	45	\$30.00	\$1,350.00	\$77.00	\$3,465.00	\$35.00	\$1,575.00	\$145.00	\$6,525.00
21	12.10 CONCRETE DRIVEWAY	SY	175	\$26.00	\$4,550.00	\$100.00	\$17,500.00	\$54.00	\$9,450.00	\$67.50	\$11,812.50
22	12.11 CONCRETE CURBING	SY	300	\$77.00	\$23,100.00	\$56.25	\$16,875.00	\$25.00	\$7,500.00	\$16.00	\$4,800.00
23	12.12 CONCRETE SIDEWALK	SY	10	\$15.00	\$150.00	\$86.00	\$860.00	\$45.00	\$450.00	\$49.50	\$495.00
24	12.12 GRAVEL DRIVEWAY/PARKING AREA	SY	240	\$3.25	\$780.00	\$5.00	\$1,200.00	\$10.00	\$2,400.00	\$5.00	\$1,200.00
25	12.14 BEST MANAGEMENT PRACTICE (SWPPP)	LS	1	\$13,598.00	\$13,598.00	\$3,500.00	\$3,500.00	\$4,500.00	\$4,500.00	\$2,000.00	\$2,000.00
<b>TOTAL CONTRACTOR BID</b>					<b>\$632,200.00</b>		<b>\$658,069.00</b>		<b>\$665,120.00</b>		<b>\$772,341.38</b>
<b>NOTES:</b>											
1) Prus Construction had a math error on bid item #4. They showed \$75,614.00 Th correct amount should be \$74,921.00.											

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**BID TABULATIONS FOR  
NORTHERN KY WATER DISTRICT  
SUB-DISTRICT H  
PHASE 2 - CREEKTRACE**

ITEM No.	DESCRIPTION	UNIT OF MEASURE	ESTIMATED QUANTITY	CUMBERLAND PIPELINE, LLC		GM PIPELINE		HOWELL CONTRACTORS INC.	
				UNIT COST TOTAL	TOTAL COST	UNIT COST TOTAL	TOTAL COST	UNIT COST TOTAL	TOTAL COST
1	6.01 6" CLASS 50 DUCTILE IRON PIPE (Detail 103, 103a, 104, 104a, 110)	LF	1,061	\$26.85	\$28,487.85	\$28.00	\$29,708.00	\$40.00	\$42,440.00
2	6.01 8" CLASS 50 DUCTILE IRON PIPE (Detail 103, 103a, 104, 104a, 110)	LF	11,207	\$29.75	\$333,408.25	\$42.65	\$477,978.55	\$45.00	\$504,315.00
3	6.01 12" CLASS 50 DUCTILE IRON PIPE (Detail 103, 103a, 104, 104a, 110)	LF	11,660	\$50.75	\$591,745.00	\$57.25	\$667,535.00	\$54.00	\$629,640.00
4	6.02.B 8" CLASS 50 DUCTILE IRON PIPE-RESTRAINED JOINT (Detail 103, 103a, 104, 104a, 110)	LF	227	\$36.20	\$8,217.40	\$54.65	\$12,405.55	\$50.00	\$11,350.00
5	6.02.B 12" CLASS 50 DUCTILE IRON PIPE-RESTRAINED JOINT (Detail 103, 103a, 104, 104a, 110)	LF	480	\$62.95	\$30,216.00	\$76.10	\$36,528.00	\$59.00	\$28,320.00
6	6.04 16" I.D. STEEL CASING PIPE BY BORE & JACK {0.282 Min. Wall Thickness- KDOT Spec's}	LF	50	\$250.00	\$12,500.00	\$204.75	\$10,237.50	\$325.00	\$16,250.00
7	6.04 24" I.D. STEEL CASING PIPE BY BORE & JACK {0.407 Min. Wall Thickness-KDOT Spec's}	LF	50	\$300.00	\$15,000.00	\$246.75	\$12,337.50	\$385.00	\$19,250.00
8	8.01 INSTALL FIRE HYDRANT ASSEMBLY (HIGH PRESSURE)	EA	36	\$3,540.00	\$127,440.00	\$2,500.00	\$90,000.00	\$3,150.00	\$113,400.00
9	9.01 6" DUCTILE IRON RESILIENT SEATED GATE VALVE	EA	1	\$900.00	\$900.00	\$600.00	\$600.00	\$800.00	\$800.00
10	9.01 8" DUCTILE IRON RESILIENT SEATED GATE VALVE {Restrained}	EA	1	\$1,376.00	\$1,376.00	\$1,100.00	\$1,100.00	\$1,100.00	\$1,100.00
11	9.01 8" DUCTILE IRON RESILIENT SEATED GATE VALVE	EA	7	\$1,298.00	\$9,086.00	\$900.00	\$6,300.00	\$1,000.00	\$7,000.00
12	9.01 12" DUCTILE IRON RESILIENT SEATED GATE VALVE {Restrained}	EA	2	\$2,606.00	\$5,212.00	\$1,600.00	\$3,200.00	\$2,000.00	\$4,000.00

**BID TABULATIONS FOR  
NORTHERN KY WATER DISTRICT  
SUB-DISTRICT H  
PHASE 2 - CREEKTRACE**

ITEM No.	DESCRIPTION	UNIT OF MEASURE	ESTIMATED QUANTITY	BRACKNEY INC.		NOTES	HUBERT EXCAVATING & CONTRACTING, LLC		NOTES	CLAY PIPELINE, INC.	
				UNIT COST TOTAL	TOTAL COST		UNIT COST TOTAL	TOTAL COST		UNIT COST TOTAL	TOTAL COST
1	6.01 6" CLASS 50 DUCTILE IRON PIPE (Detail 103, 103a, 104, 104a, 110)	LF	1,061	\$38.70	\$41,060.70		\$40.00	\$42,440.00		\$38.50	\$40,848.50
2	6.01 8" CLASS 50 DUCTILE IRON PIPE (Detail 103, 103a, 104, 104a, 110)	LF	11,207	\$43.10	\$483,021.70		\$43.20	\$484,142.40		\$42.00	\$470,694.00
3	6.01 12" CLASS 50 DUCTILE IRON PIPE (Detail 103, 103a, 104, 104a, 110)	LF	11,660	\$50.30	\$586,498.00		\$55.00	\$641,300.00		\$51.00	\$594,660.00
4	6.02.B 8" CLASS 50 DUCTILE IRON PIPE-RESTRAINED JOINT (Detail 103, 103a, 104, 104a, 110)	LF	227	\$44.00	\$9,988.00		\$47.00	\$10,669.00		\$47.00	\$10,669.00
5	6.02.B 12" CLASS 50 DUCTILE IRON PIPE-RESTRAINED JOINT (Detail 103, 103a, 104, 104a, 110)	LF	480	\$61.65	\$29,592.00		\$59.00	\$28,320.00		\$56.00	\$26,880.00
6	6.04 16" I.D. STEEL CASING PIPE BY BORE & JACK {0.282 Min. Wall Thickness- KDOT Spec's}	LF	50	\$325.00	\$16,250.00		\$180.00	\$9,000.00		\$195.00	\$9,750.00
7	6.04 24" I.D. STEEL CASING PIPE BY BORE & JACK {0.407 Min. Wall Thickness-KDOT Spec's}	LF	50	\$325.00	\$16,250.00		\$225.00	\$11,250.00		\$235.00	\$11,750.00
8	8.01 INSTALL FIRE HYDRANT ASSEMBLY {HIGH PRESSURE}	EA	36	\$3,465.00	\$124,740.00		\$3,850.00	\$138,600.00		\$5,500.00	\$198,000.00
9	9.01 6" DUCTILE IRON RESILIENT SEATED GATE VALVE	EA	1	\$1,100.00	\$1,100.00		\$880.00	\$880.00		\$1,560.00	\$1,560.00
10	9.01 8" DUCTILE IRON RESILIENT SEATED GATE VALVE {Restrained}	EA	1	\$1,575.00	\$1,575.00		\$1,150.00	\$1,150.00		\$1,870.00	\$1,870.00
11	9.01 8" DUCTILE IRON RESILIENT SEATED GATE VALVE	EA	7	\$1,455.00	\$10,185.00		\$1,150.00	\$8,050.00		\$1,845.00	\$12,915.00
12	9.01 12" DUCTILE IRON RESILIENT SEATED GATE VALVE {Restrained}	EA	2	\$2,565.00	\$5,130.00		\$1,900.00	\$3,800.00		\$2,615.00	\$5,230.00

No. 7397 P. 4

Oct. 15. 2010 5:04PM

**BID TABULATIONS FOR  
NORTHERN KY WATER DISTRICT  
SUB-DISTRICT H  
PHASE 2 - CREEKTRACE**

No. 7397 - P. 5

Oct. 15, 2010 - 5:04 PM

ITEM No.	DESCRIPTION	UNIT OF MEASURE	ESTIMATED QUANTITY	SMITH & BROWN CONTRACTORS, INC.		RACK & BALLAUER EXCAVATING CO., INC.		FORD DEVELOPMENT CORP.		LYKINS CONTRACTING INC.	
				UNIT COST TOTAL	TOTAL COST	UNIT COST TOTAL	TOTAL COST	UNIT COST TOTAL	TOTAL COST	UNIT COST TOTAL	TOTAL COST
1	6.01 6" CLASS 50 DUCTILE IRON PIPE (Detail 103, 103a, 104, 104a, 110)	LF	1,061	\$42.00	\$44,562.00	\$58.00	\$61,538.00	\$40.00	\$42,440.00	\$38.00	\$40,318.00
2	6.01 8" CLASS 50 DUCTILE IRON PIPE (Detail 103, 103a, 104, 104a, 110)	LF	11,207	\$44.50	\$498,711.50	\$55.50	\$621,988.50	\$50.00	\$560,350.00	\$55.50	\$621,988.50
3	6.01 12" CLASS 50 DUCTILE IRON PIPE (Detail 103, 103a, 104, 104a, 110)	LF	11,660	\$52.00	\$606,320.00	\$51.25	\$597,575.00	\$77.00	\$897,820.00	\$63.00	\$734,580.00
4	6.02.B 8" CLASS 50 DUCTILE IRON PIPE-RESTRAINED JOINT (Detail 103, 103a, 104, 104a, 110)	LF	227	\$75.00	\$17,025.00	\$65.50	\$14,868.50	\$70.00	\$15,890.00	\$58.00	\$13,166.00
5	6.02.B 12" CLASS 50 DUCTILE IRON PIPE-RESTRAINED JOINT (Detail 103, 103a, 104, 104a, 110)	LF	480	\$87.00	\$41,760.00	\$62.25	\$29,880.00	\$90.00	\$43,200.00	\$70.00	\$33,600.00
6	6.04 16" I.D. STEEL CASING PIPE BY BORE & JACK {0.282 Min. Wall Thickness- KDOT Spec's}	LF	50	\$254.00	\$12,700.00	\$181.00	\$9,050.00	\$300.00	\$15,000.00	\$267.00	\$13,350.00
7	6.04 24" I.D. STEEL CASING PIPE BY BORE & JACK {0.407 Min. Wall Thickness-KDOT Spec's}	LF	50	\$328.00	\$16,400.00	\$200.00	\$10,000.00	\$350.00	\$17,500.00	\$308.00	\$15,400.00
8	8.01 INSTALL FIRE HYDRANT ASSEMBLY {HIGH PRESSURE}	EA	36	\$3,385.00	\$121,860.00	\$3,600.00	\$129,600.00	\$3,000.00	\$108,000.00	\$3,190.00	\$114,840.00
9	9.01 6" DUCTILE IRON RESILIENT SEATED GATE VALVE	EA	1	\$708.00	\$708.00	\$550.00	\$550.00	\$600.00	\$600.00	\$720.00	\$720.00
10	9.01 8" DUCTILE IRON RESILIENT SEATED GATE VALVE {Restrained}	EA	1	\$1,067.00	\$1,067.00	\$950.00	\$950.00	\$900.00	\$900.00	\$1,040.00	\$1,040.00
11	9.01 8" DUCTILE IRON RESILIENT SEATED GATE VALVE	EA	7	\$1,003.00	\$7,021.00	\$900.00	\$6,300.00	\$1,000.00	\$7,000.00	\$1,090.00	\$7,630.00
12	9.01 12" DUCTILE IRON RESILIENT SEATED GATE VALVE {Restrained}	EA	2	\$1,882.00	\$3,764.00	\$1,780.00	\$3,560.00	\$1,700.00	\$3,400.00	\$1,835.00	\$3,670.00

**BID TABULATIONS FOR  
NORTHERN KY WATER DISTRICT  
SUB-DISTRICT H  
PHASE 2 - CREEKTRACE**

ITEM No.	DESCRIPTION	UNIT OF MEASURE	ESTIMATED QUANTITY	CUMBERLAND PIPELINE, LLC		GM PIPELINE		HOWELL CONTRACTORS INC.	
				UNIT COST TOTAL	TOTAL COST	UNIT COST TOTAL	TOTAL COST	UNIT COST TOTAL	TOTAL COST
13	9.01 12" DUCTILE IRON RESILIENT SEATED GATE VALVE	EA	11	\$2,379.00	\$26,169.00	\$1,500.00	\$16,500.00	\$1,850.00	\$20,350.00
14	11.01 CONCRETE ENCASEMENT	LF	375	\$45.00	\$16,875.00	\$40.00	\$15,000.00	\$80.00	\$30,000.00
15	11.04 6" PLUG AND BLOCK	EA	2	\$500.00	\$1,000.00	\$200.00	\$400.00	\$90.00	\$180.00
16	11.04 8" PLUG AND BLOCK	EA	2	\$600.00	\$1,200.00	\$200.00	\$400.00	\$100.00	\$200.00
17	11.04 12" PLUG AND BLOCK	EA	2	\$1,280.00	\$2,560.00	\$200.00	\$400.00	\$110.00	\$220.00
18	11.05 AIR RELEASE VALVE (MATERIALS SUPPLIED BY NKWD)	EA	2	\$1,800.00	\$3,600.00	\$500.00	\$1,000.00	\$150.00	\$300.00
19	11.06 6"x6x"6" ANCHORING TEES AND BLOCKS	EA	2	\$500.00	\$1,000.00	\$250.00	\$500.00	\$300.00	\$600.00
20	11.06 8"x8x"6" ANCHORING TEES AND BLOCKS	EA	18	\$600.00	\$10,800.00	\$250.00	\$4,500.00	\$350.00	\$6,300.00
21	11.06 12"x12x"6" ANCHORING TEES AND BLOCKS	EA	16	\$1,120.00	\$17,920.00	\$300.00	\$4,800.00	\$500.00	\$8,000.00
22	11.07 8"x8"x8" DUCTILE IRON TEE AND BLOCK	EA	1	\$960.00	\$960.00	\$250.00	\$250.00	\$350.00	\$350.00
23	11.07 12"x12"x8" DUCTILE IRON TEE AND BLOCK <i>{Restrained}</i>	EA	1	\$1,920.00	\$1,920.00	\$350.00	\$350.00	\$750.00	\$750.00
24	11.07 12"x12"x8" DUCTILE IRON TEE AND BLOCK	EA	2	\$1,600.00	\$3,200.00	\$300.00	\$600.00	\$550.00	\$1,100.00
25	11.07 12"x12"x12" DUCTILE IRON TEE AND BLOCK <i>{CUT INTO EX.6" TRANSITE MAIN}</i>	EA	2	\$1,920.00	\$3,840.00	\$3,000.00	\$6,000.00	\$3,050.00	\$6,100.00
26	11.09 8"-6" REDUCER	EA	2	\$560.00	\$1,120.00	\$200.00	\$400.00	\$200.00	\$400.00
27	11.09 12"-6" REDUCER	EA	2	\$720.00	\$1,440.00	\$200.00	\$400.00	\$250.00	\$500.00
28	11.11 TEST TAP	EA	4	\$1,625.00	\$6,500.00	\$350.00	\$1,400.00	\$300.00	\$1,200.00
29	12.05 ASPHALTIC CONCRETE MILLING AND PAVING <i>{KDOT Spec's}</i>	SY	885	\$12.00	\$10,620.00	\$8.50	\$7,522.50	\$7.00	\$6,195.00
30	12.05 ASPHALTIC CONCRETE MILLING AND PAVING <i>[Campbell County Spec's]</i>	SY	4,200	\$12.00	\$50,400.00	\$8.50	\$35,700.00	\$6.50	\$27,300.00
31	12.06 ASPHALTIC CONCRETE	SY	2,025	\$12.00	\$24,300.00	\$0.01	\$20.25	\$20.00	\$40,500.00

**BID TABULATIONS FOR  
NORTHERN KY WATER DISTRICT  
SUB-DISTRICT H  
PHASE 2 - CREEKTRACE**

ITEM No.	DESCRIPTION	UNIT OF MEASURE	ESTIMATED QUANTITY	BRACKNEY INC.		NOTES	HUBERT EXCAVATING & CONTRACTING, LLC		NOTES	CLAY PIPELINE, INC.	
				UNIT COST TOTAL	TOTAL COST		UNIT COST TOTAL	TOTAL COST		UNIT COST TOTAL	TOTAL COST
13	9.01 12" DUCTILE IRON RESILIENT SEATED GATE VALVE	EA	11	\$2,375.00	\$26,125.00		\$1,800.00	\$19,800.00		\$2,590.00	\$28,490.00
14	11.01 CONCRETE ENCASEMENT	LF	375	\$65.00	\$24,375.00		\$57.00	\$21,375.00		\$50.00	\$18,750.00
15	11.04 6" PLUG AND BLOCK	EA	2	\$345.00	\$690.00		\$400.00	\$800.00		\$350.00	\$700.00
16	11.04 8" PLUG AND BLOCK	EA	2	\$365.00	\$730.00		\$400.00	\$800.00		\$350.00	\$700.00
17	11.04 12" PLUG AND BLOCK	EA	2	\$395.00	\$790.00		\$400.00	\$800.00		\$410.00	\$820.00
18	11.05 AIR RELEASE VALVE (MATERIALS SUPPLIED BY NKWD)	EA	2	\$1,200.00	\$2,400.00		\$350.00	\$700.00		\$500.00	\$1,000.00
19	11.06 6"x6"x6" ANCHORING TEES AND BLOCKS	EA	2	\$270.00	\$540.00		\$575.00	\$1,150.00		\$435.00	\$870.00
20	11.06 8"x8"x6" ANCHORING TEES AND BLOCKS	EA	18	\$360.00	\$6,480.00		\$600.00	\$10,800.00		\$466.00	\$8,388.00
21	11.06 12"x12"x6" ANCHORING TEES AND BLOCKS	EA	16	\$485.00	\$7,760.00		\$685.00	\$10,960.00		\$531.00	\$8,496.00
22	11.07 8"x8"x8" DUCTILE IRON TEE AND BLOCK	EA	1	\$775.00	\$775.00		\$550.00	\$550.00		\$510.00	\$510.00
23	11.07 12"x12"x8" DUCTILE IRON TEE AND BLOCK <i>{Restrained}</i>	EA	1	\$975.00	\$975.00		\$375.00	\$375.00	*3	\$728.00	\$728.00
24	11.07 12"x12"x8" DUCTILE IRON TEE AND BLOCK	EA	2	\$975.00	\$1,950.00		\$750.00	\$1,500.00		\$787.00	\$1,574.00
25	11.07 12"x12"x12" DUCTILE IRON TEE AND BLOCK <i>{CUT INTO EX.6" TRANSITE MAIN}</i>	EA	2	\$2,340.00	\$4,680.00		\$1,250.00	\$2,500.00		\$727.00	\$1,454.00
26	11.09 8"-6" REDUCER	EA	2	\$350.00	\$700.00		\$225.00	\$450.00		\$466.00	\$932.00
27	11.09 12"-6" REDUCER	EA	2	\$480.00	\$960.00		\$300.00	\$600.00		\$634.00	\$1,268.00
28	11.11 TEST TAP	EA	4	\$430.00	\$1,720.00		\$400.00	\$1,600.00		\$500.00	\$2,000.00
29	12.05 ASPHALTIC CONCRETE MILLING AND PAVING <i>{KDOT Spec's}</i>	SY	885	\$10.95	\$9,690.75		\$9.50	\$8,407.50		\$26.50	\$23,452.50
30	12.05 ASPHALTIC CONCRETE MILLING AND PAVING <i>{Campbell County Spec's}</i>	SY	4,200	\$10.95	\$45,990.00		\$9.50	\$39,900.00		\$26.50	\$111,300.00
31	12.06 ASPHALTIC CONCRETE	SY	2,025	\$46.00	\$93,150.00		\$40.00	\$81,000.00		\$26.50	\$53,662.50

No. 7397 P. 7

Oct. 15, 2010 5:04PM

**BID TABULATIONS FOR  
NORTHERN KY WATER DISTRICT  
SUB-DISTRICT H  
PHASE 2 - CREEKTRACE**

No. 7397 - P. 8

ITEM No.	DESCRIPTION	UNIT OF MEASURE	ESTIMATED QUANTITY	SMITH & BROWN CONTRACTORS, INC.		RACK & BALLAUER EXCAVATING CO., INC.		FORD DEVELOPMENT CORP.		LYKINS CONTRACTING INC.	
				UNIT COST TOTAL	TOTAL COST	UNIT COST TOTAL	TOTAL COST	UNIT COST TOTAL	TOTAL COST	UNIT COST TOTAL	TOTAL COST
13	9.01 12" DUCTILE IRON RESILIENT SEATED GATE VALVE	EA	11	\$1,744.00	\$19,184.00	\$1,620.00	\$17,820.00	\$1,600.00	\$17,600.00	\$1,710.00	\$18,810.00
14	11.01 CONCRETE ENCASEMENT	LF	375	\$38.00	\$14,250.00	\$35.00	\$13,125.00	\$30.00	\$11,250.00	\$42.00	\$15,750.00
15	11.04 6" PLUG AND BLOCK	EA	2	\$173.00	\$346.00	\$100.00	\$200.00	\$100.00	\$200.00	\$325.00	\$650.00
16	11.04 8" PLUG AND BLOCK	EA	2	\$190.00	\$380.00	\$100.00	\$200.00	\$150.00	\$300.00	\$325.00	\$650.00
17	11.04 12" PLUG AND BLOCK	EA	2	\$214.00	\$428.00	\$150.00	\$300.00	\$200.00	\$400.00	\$325.00	\$650.00
18	11.05 AIR RELEASE VALVE (MATERIALS SUPPLIED BY NKWD)	EA	2	\$330.00	\$660.00	\$500.00	\$1,000.00	\$200.00	\$400.00	\$250.00	\$500.00
19	11.06 6"x6x"6" ANCHORING TEES AND BLOCKS	EA	2	\$305.00	\$610.00	\$175.00	\$350.00	\$150.00	\$300.00	\$210.00	\$420.00
20	11.06 8"x8x"6" ANCHORING TEES AND BLOCKS	EA	18	\$290.00	\$5,220.00	\$215.00	\$3,870.00	\$200.00	\$3,600.00	\$265.00	\$4,770.00
21	11.06 12"x12x"6" ANCHORING TEES AND BLOCKS	EA	16	\$402.00	\$6,432.00	\$275.00	\$4,400.00	\$350.00	\$5,600.00	\$480.00	\$7,680.00
22	11.07 8"x8"x8" DUCTILE IRON TEE AND BLOCK	EA	1	\$357.00	\$357.00	\$265.00	\$265.00	\$250.00	\$250.00	\$395.00	\$395.00
23	11.07 12"x12"x8" DUCTILE IRON TEE AND BLOCK {Restrained}	EA	1	\$578.00	\$578.00	\$425.00	\$425.00	\$500.00	\$500.00	\$540.00	\$540.00
24	11.07 12"x12"x8" DUCTILE IRON TEE AND BLOCK	EA	2	\$440.00	\$880.00	\$275.00	\$550.00	\$400.00	\$800.00	\$515.00	\$1,030.00
25	11.07 12"x12"x12" DUCTILE IRON TEE AND BLOCK (CUT INTO EX.6" TRANSITE MAIN)	EA	2	\$4,000.00	\$8,000.00	\$350.00	\$700.00	\$1,000.00	\$2,000.00	\$1,985.00	\$3,970.00
26	11.09 8"-6" REDUCER	EA	2	\$172.00	\$344.00	\$90.00	\$180.00	\$125.00	\$250.00	\$202.00	\$404.00
27	11.09 12"-6" REDUCER	EA	2	\$207.00	\$414.00	\$125.00	\$250.00	\$150.00	\$300.00	\$325.00	\$650.00
28	11.11 TEST TAP	EA	4	\$790.00	\$3,160.00	\$950.00	\$3,800.00	\$300.00	\$1,200.00	\$500.00	\$2,000.00
29	12.05 ASPHALTIC CONCRETE MILLING AND PAVING (KDOT Spec's)	SY	885	\$11.20	\$9,912.00	\$11.20	\$9,912.00	\$10.00	\$8,850.00	\$9.00	\$7,965.00
30	12.05 ASPHALTIC CONCRETE MILLING AND PAVING [Campbell County Spec's]	SY	4,200	\$8.75	\$36,750.00	\$10.80	\$45,360.00	\$10.00	\$42,000.00	\$9.00	\$37,800.00
31	12.06 ASPHALTIC CONCRETE	SY	2,025	\$53.00	\$107,325.00	\$40.00	\$81,000.00	\$10.00	\$20,250.00	\$42.80	\$86,670.00

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**BID TABULATIONS FOR  
NORTHERN KY WATER DISTRICT  
SUB-DISTRICT H  
PHASE 2 - CREEKTRACE**

ITEM No.	DESCRIPTION	UNIT OF MEASURE	ESTIMATED QUANTITY	CUMBERLAND PIPELINE, LLC		GM PIPELINE		HOWELL CONTRACTORS INC.		
				UNIT COST TOTAL	TOTAL COST	UNIT COST TOTAL	TOTAL COST	UNIT COST TOTAL	TOTAL COST	
32	12.07 ASPHALTIC DRIVEWAY	SY	250	\$12.00	\$3,000.00	\$36.00	\$9,000.00	\$18.00	\$4,500.00	
33	12.08 SHOULDER RESTORATION <i>{KDOT Spec's}</i>	SY	50	\$15.00	\$750.00	\$10.00	\$500.00	\$100.00	\$5,000.00	
34	12.09 CONCRETE STREET RESTORATION	SY	500	\$60.00	\$30,000.00	\$0.01	\$5.00	\$60.00	\$30,000.00	
35	12.10 CONCRETE DRIVEWAY	SY	820	\$60.00	\$49,200.00	\$60.00	\$49,200.00	\$54.00	\$44,280.00	
36	12.12 CONCRETE SIDEWALK	SY	15	\$60.00	\$900.00	\$50.00	\$750.00	\$45.00	\$675.00	
37	12.13 GRAVEL DRIVEWAY/PARKING AREA	SY	890	\$20.00	\$17,800.00	\$5.00	\$4,450.00	\$5.00	\$4,450.00	
38	12.14 BEST MANAGEMENT PRACTICE {SWPPP}	LS	1	\$10,000.00	\$10,000.00	\$5,000.00	\$5,000.00	\$7,500.00	\$7,500.00	
39	12.16 GUARD RAIL RESTORATION <i>{KDOT Spec's}</i>	LF	845	\$41.60	\$35,152.00	\$0.01	\$8.45	\$14.00	\$11,830.00	
<b>TOTAL CONTRACTOR BID</b>						<b>\$1,495,814.50</b>		<b>\$1,512,986.30</b>		<b>\$1,636,645.00</b>
<b>NOTES:</b> *1) Brackney had a math error on Line Item #39. They showed unit cost of \$6,500.00 & Total Cost of \$6,500.00. This is not a Lump Sum Bid Item. It has an estimated quantity of 845 so the correct Line Item Total should be \$5,492,500.00.  *2) Brackney had a math error on the Total Contractor Bid Amount. They showed \$1,658,385.15. The correct Total Contractor Bid Amount should be \$7,141,421.15.  *3) Hubert had a math error on Line Item # 23. They showed Line Item Total Amount as \$750.00. The correct Line Item Total should be \$375.  *4) Hubert had a math error on the Total Contractor Bid Amount. They showed \$1,685,000.00. The correct Total Contractor Bid Amount should be \$1,684,625.00										

**BID TABULATIONS FOR  
NORTHERN KY WATER DISTRICT  
SUB-DISTRICT H  
PHASE 2 - CREEKTRACE**

ITEM No.	DESCRIPTION	UNIT OF MEASURE	ESTIMATED QUANTITY	BRACKNEY INC.		NOTES	HUBERT EXCAVATING & CONTRACTING, LLC		NOTES	CLAY PIPELINE, INC.	
				UNIT COST TOTAL	TOTAL COST		UNIT COST TOTAL	TOTAL COST		UNIT COST TOTAL	TOTAL COST
32	12.07 ASPHALTIC DRIVEWAY	SY	250	\$55.00	\$13,750.00		\$22.00	\$5,500.00		\$26.50	\$6,625.00
33	12.08 SHOULDER RESTORATION { <i>KDOT Spec's</i> }	SY	50	\$40.00	\$2,000.00		\$21.00	\$1,050.00		\$26.50	\$1,325.00
34	12.09 CONCRETE STREET RESTORATION	SY	500	\$38.00	\$19,000.00		\$41.00	\$20,500.00		\$26.50	\$13,250.00
35	12.10 CONCRETE DRIVEWAY	SY	820	\$57.00	\$46,740.00		\$26.00	\$21,320.00		\$26.50	\$21,730.00
36	12.12 CONCRETE SIDEWALK	SY	15	\$100.00	\$1,500.00		\$15.00	\$225.00		\$26.50	\$397.50
37	12.13 GRAVEL DRIVEWAY/PARKING AREA	SY	890	\$4.00	\$3,560.00		\$3.50	\$3,115.00		\$10.60	\$9,434.00
38	12.14 BEST MANAGEMENT PRACTICE {SWPPP}	LS	1	\$6,500.00	\$6,500.00		\$29,811.10	\$29,811.10		\$2,000.00	\$2,000.00
39	12.16 GUARD RAIL RESTORATION { <i>KDOT Spec's</i> }	LF	845	\$6,500.00	\$5,492,500.00	*1	\$23.00	\$19,435.00		\$12.00	\$10,140.00
<b>TOTAL CONTRACTOR BID</b>						\$7,141,421.15	*2		\$1,684,625.00	*4	\$1,714,823.00
<p><b>NOTES:</b></p> <p>*1) Brackney had a math error on Line Item #39. They showed unit cost of \$6,500.00 &amp; Total Cost of \$6,500.00. This is not a Lump Sum Bid Item. It has an estimated quantity of 845 so the correct Line Item Total should be \$5,492,500.00.</p> <p>*2) Brackney had a math error on the Total Contractor Bid Amount. They showed \$1,658,385.15. The correct Total Contractor Bid Amount should be \$7,141,421.15.</p> <p>*3) Hubert had a math error on Line Item # 23. They showed Line Item Total Amount as \$750.00. The correct Line Item Total should be \$375.</p> <p>*4) Hubert had a math error on the Total Contractor Bid Amount. They showed \$1,685,000.00. The correct Total Contractor Bid Amount should be \$1,684,625.00</p>											

No. 7397 P. 10

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**BID TABULATIONS FOR  
NORTHERN KY WATER DISTRICT  
SUB-DISTRICT H  
PHASE 2 - CREEKTRACE**

No. 7397 - P. 11

ITEM No.	DESCRIPTION	UNIT OF MEASURE	ESTIMATED QUANTITY	SMITH & BROWN CONTRACTORS, INC.		RACK & BALLAUER EXCAVATING CO., INC.		FORD DEVELOPMENT CORP.		LYKINS CONTRACTING INC.		
				UNIT COST TOTAL	TOTAL COST	UNIT COST TOTAL	TOTAL COST	UNIT COST TOTAL	TOTAL COST	UNIT COST TOTAL	TOTAL COST	
32	12.07 ASPHALTIC DRIVEWAY	SY	250	\$44.00	\$11,000.00	\$40.50	\$10,125.00	\$10.00	\$2,500.00	\$80.50	\$20,125.00	
33	12.08 SHOULDER RESTORATION { <i>KDOT Spec's</i> }	SY	50	\$82.00	\$4,100.00	\$25.00	\$1,250.00	\$5.00	\$250.00	\$84.00	\$4,200.00	
34	12.09 CONCRETE STREET RESTORATION	SY	500	\$65.00	\$32,500.00	\$90.00	\$45,000.00	\$20.00	\$10,000.00	\$100.00	\$50,000.00	
35	12.10 CONCRETE DRIVEWAY	SY	820	\$60.00	\$49,200.00	\$67.50	\$55,350.00	\$40.00	\$32,800.00	\$100.00	\$82,000.00	
36	12.12 CONCRETE SIDEWALK	SY	15	\$52.00	\$780.00	\$49.50	\$742.50	\$35.00	\$525.00	\$86.00	\$1,290.00	
37	12.13 GRAVEL DRIVEWAY/PARKING AREA	SY	890	\$10.00	\$8,900.00	\$5.00	\$4,450.00	\$2.00	\$1,780.00	\$5.00	\$4,450.00	
38	12.14 BEST MANAGEMENT PRACTICE (SWPPP)	LS	1	\$23,430.50	\$23,430.50	\$8,000.00	\$8,000.00	\$1,000.00	\$1,000.00	\$6,000.00	\$6,000.00	
39	12.16 GUARD RAIL RESTORATION { <i>KDOT Spec's</i> }	LF	845	\$15.00	\$12,675.00	\$32.00	\$27,040.00	\$5.00	\$4,225.00	\$8.00	\$6,760.00	
<b>TOTAL CONTRACTOR BID</b>						<b>\$1,729,714.00</b>		<b>\$1,821,524.50</b>		<b>\$1,881,230.00</b>		<b>\$1,966,431.50</b>

**NOTES:**

\*1) Brackney had a math error on Line Item #39. They showed unit cost of \$6,500.00 & Total Cost of \$6,500.00. This is not a Lump Sum Bid Item. It has an estimated quantity of 845 so the correct Line Item Total should be \$5,492,500.00.

2) Brackney had a math error on the Total Contractor Bid Amount. They showed \$1,658,385.15. The correct Total Contractor Bid Amount should be \$7,141,421.15.

3) Hubert had a math error on Line Item # 23. They showed Line Item Total Amount as \$750.00. The correct Line Item Total should be \$375.

4) Hubert had a math error on the Total Contractor Bid Amount. They showed \$1,685,000.00. The correct Total Contractor Bid Amount should be \$1,684,625.00

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**BID TABULATIONS FOR  
NORTHERN KY WATER DISTRICT  
SUB-DISTRICT H  
PHASE 3 - WESLEY CHAPEL**

ITEM No.	DESCRIPTION	UNIT OF MEASURE	ESTIMATED QUANTITY	CUMBERLAND PIPELINE, LLC		M&W EXCAVATION CO., INC.		G.M. PIPELINE	
				UNIT COST TOTAL	TOTAL COST	UNIT COST TOTAL	TOTAL COST	UNIT COST TOTAL	TOTAL COST
1	6.01 8" CLASS 50 DUCTILE IRON PIPE (Detail 103, 103a, 104, 104a, 110)	LF	5,510	\$29.75	\$163,922.50	\$40.00	\$220,400.00	\$62.70	\$345,477.00
2	6.02.B 8" CLASS 50 DUCTILE IRON PIPE - RESTRAINED JOINT. (Detail 103, 103a, 104, 104a, 110)	LF	365	\$36.70	\$13,395.50	\$45.25	\$16,516.25	\$74.95	\$27,356.75
3	6.03 8" C-900 POLYVINYL CHLORIDE (PVC). (Detail 103, 103a, 104, 104a, 110)	LF	10,000	\$20.35	\$203,500.00	\$34.00	\$340,000.00	\$32.35	\$323,500.00
4	7.01 CONNECT TO EX. 8" MAIN	EA	1	\$1,200.00	\$1,200.00	\$175.00	\$175.00	\$1,000.00	\$1,000.00
5	8.01 INSTALL FIRE HYDRANT ASSEMBLY	EA	15	\$3,540.00	\$53,100.00	\$3,000.00	\$45,000.00	\$2,500.00	\$37,500.00
6	8.01 INSTALL FIRE HYDRANT ASSEMBLY (HIGH PRESSURE)	EA	5	\$3,540.00	\$17,700.00	\$3,000.00	\$15,000.00	\$2,500.00	\$12,500.00
7	9.01 8" DUCTILE IRON RESILIENT SEATED GATE VALVE	EA	10	\$1,266.00	\$12,660.00	\$950.00	\$9,500.00	\$900.00	\$9,000.00
8	11.01 CONCRETE ENCASEMENT	LF	80	\$45.00	\$3,600.00	\$50.00	\$4,000.00	\$40.00	\$3,200.00
9	11.04 8" PLUG AND BLOCK	EA	2	\$600.00	\$1,200.00	\$200.00	\$400.00	\$200.00	\$400.00
10	11.05 AIR RELEASE VALVE (MATERIALS SUPPLIED BY NKWD)	EA	4	\$1,800.00	\$7,200.00	\$500.00	\$2,000.00	\$500.00	\$2,000.00
11	11.06 8"x8"x6" ANCHORING TEES AND BLOCKS	EA	20	\$500.00	\$10,000.00	\$400.00	\$8,000.00	\$250.00	\$5,000.00
12	11.07 8"x8"x8" DUCTILE IRON TEE AND BLOCK	EA	1	\$600.00	\$600.00	\$425.00	\$425.00	\$250.00	\$250.00
13	11.11 TEST TAP	EA	2	\$500.00	\$1,000.00	\$1,250.00	\$2,500.00	\$350.00	\$700.00
14	12.05 ASPHALTIC CONCRETE MILLING AND PAVING (KDOT Spec's)	SY	2,600	\$12.50	\$32,500.00	\$8.00	\$20,800.00	\$8.50	\$22,100.00
15	12.05 ASPHALTIC CONCRETE MILLING AND PAVING (Campbell County. Spec's)	SY	1,600	\$12.00	\$19,200.00	\$8.00	\$12,800.00	\$8.50	\$13,600.00

No. 7399 P. 3

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**BID TABULATIONS FOR  
NORTHERN KY WATER DISTRICT  
SUB-DISTRICT H  
PHASE 3 - WESLEY CHAPEL**

No. 7399 P. 4

EM No.	DESCRIPTION	UNIT OF MEASURE	ESTIMATED QUANTITY	HUBERT EXCAVATING & CONTRACTING, LLC		CLAY PIPELINE, INC.		THE FORD DEVELOPMENT CORP.		DUDLEY CONSTRUCTION CO., INC.	
				UNIT COST TOTAL	TOTAL COST	UNIT COST TOTAL	TOTAL COST	UNIT COST TOTAL	TOTAL COST	UNIT COST TOTAL	TOTAL COST
1	6.01 8" CLASS 50 DUCTILE IRON PIPE (Detail 103, 103a, 104, 104a, 110)	LF	5,510	\$44.00	\$242,440.00	\$38.60	\$212,686.00	\$49.75	\$274,122.50	\$49.85	\$274,673.50
2	6.02.B 8" CLASS 50 DUCTILE IRON PIPE - RESTRAINED JOINT. (Detail 103, 103a, 104, 104a, 110)	LF	365	\$50.00	\$18,250.00	\$44.00	\$16,060.00	\$55.00	\$20,075.00	\$59.90	\$21,863.50
3	6.03 8" C-900 POLYVINYL CHLORIDE (PVC). (Detail 103, 103a, 104, 104a, 110)	LF	10,000	\$38.00	\$380,000.00	\$32.00	\$320,000.00	\$45.00	\$450,000.00	\$35.60	\$356,000.00
4	7.01 CONNECT TO EX. 8" MAIN	EA	1	\$510.00	\$510.00	\$1,795.00	\$1,795.00	\$8,000.00	\$8,000.00	\$1,060.00	\$1,060.00
5	8.01 INSTALL FIRE HYDRANT ASSEMBLY	EA	15	\$2,650.00	\$39,750.00	\$5,400.00	\$81,000.00	\$3,200.00	\$48,000.00	\$2,985.00	\$44,775.00
6	8.01 INSTALL FIRE HYDRANT ASSEMBLY (HIGH PRESSURE)	EA	5	\$3,700.00	\$18,500.00	\$5,420.00	\$27,100.00	\$3,500.00	\$17,500.00	\$2,985.00	\$14,925.00
7	9.01 8" DUCTILE IRON RESILIENT SEATED GATE VALVE	EA	10	\$1,150.00	\$11,500.00	\$2,768.00	\$27,680.00	\$1,500.00	\$15,000.00	\$1,010.00	\$10,100.00
8	11.01 CONCRETE ENCASEMENT	LF	80	\$56.00	\$4,480.00	\$50.00	\$4,000.00	\$150.00	\$12,000.00	\$90.00	\$7,200.00
9	11.04 8" PLUG AND BLOCK	EA	2	\$425.00	\$850.00	\$615.00	\$1,230.00	\$200.00	\$400.00	\$135.00	\$270.00
10	11.05 AIR RELEASE VALVE (MATERIALS SUPPLIED BY NKWD)	EA	4	\$350.00	\$1,400.00	\$500.00	\$2,000.00	\$1,000.00	\$4,000.00	\$700.00	\$2,800.00
11	11.06 8"x8x"6" ANCHORING TEES AND BLOCKS	EA	20	\$575.00	\$11,500.00	\$665.00	\$13,300.00	\$250.00	\$5,000.00	\$390.00	\$7,800.00
12	11.07 8"x8"x8" DUCTILE IRON TEE AND BLOCK	EA	1	\$550.00	\$550.00	\$709.00	\$709.00	\$275.00	\$275.00	\$515.00	\$515.00
13	11.11 TEST TAP	EA	2	\$350.00	\$700.00	\$500.00	\$1,000.00	\$500.00	\$1,000.00	\$855.00	\$1,710.00
14	12.05 ASPHALTIC CONCRETE MILLING AND PAVING (KDOT Spec's)	SY	2,600	\$9.50	\$24,700.00	\$25.00	\$65,000.00	\$8.50	\$22,100.00	\$7.25	\$18,850.00
15	12.05 ASPHALTIC CONCRETE MILLING AND PAVING (Campbell County. Spec's)	SY	1,600	\$9.50	\$15,200.00	\$25.00	\$40,000.00	\$8.50	\$13,600.00	\$7.25	\$11,600.00

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**BID TABULATIONS FOR  
NORTHERN KY WATER DISTRICT  
SUB-DISTRICT H  
PHASE 3 - WESLEY CHAPEL**

ITEM No.	DESCRIPTION	UNIT OF MEASURE	ESTIMATED QUANTITY	RACK & BALLAUER EXCAVATING CO., INC.		LYKINS CONTRACTING INC.		PRUS CONSTRUCTION CO.	
				UNIT COST TOTAL	TOTAL COST	UNIT COST TOTAL	TOTAL COST	UNIT COST TOTAL	TOTAL COST
1	6.01 8" CLASS 50 DUCTILE IRON PIPE (Detail 103, 103a, 104, 104a, 110)	LF	5,510	\$52.00	\$286,520.00	\$52.00	\$286,520.00	\$68.00	\$374,680.00
2	6.02.B 8" CLASS 50 DUCTILE IRON PIPE - RESTRAINED JOINT. (Detail 103, 103a, 104, 104a, 110)	LF	365	\$58.00	\$21,170.00	\$50.00	\$18,250.00	\$103.00	\$37,595.00
3	6.03 8" C-900 POLYVINYL CHLORIDE (PVC). (Detail 103, 103a, 104, 104a, 110)	LF	10,000	\$44.00	\$440,000.00	\$54.00	\$540,000.00	\$49.00	\$490,000.00
4	7.01 CONNECT TO EX. 8" MAIN	EA	1	\$1,500.00	\$1,500.00	\$2,635.00	\$2,635.00	\$4,500.00	\$4,500.00
5	8.01 INSTALL FIRE HYDRANT ASSEMBLY	EA	15	\$3,400.00	\$51,000.00	\$2,690.00	\$40,350.00	\$3,500.00	\$52,500.00
6	8.01 INSTALL FIRE HYDRANT ASSEMBLY (HIGH PRESSURE)	EA	5	\$4,600.00	\$23,000.00	\$3,190.00	\$15,950.00	\$4,500.00	\$22,500.00
7	9.01 8" DUCTILE IRON RESILIENT SEATED GATE VALVE	EA	10	\$1,000.00	\$10,000.00	\$1,090.00	\$10,900.00	\$1,100.00	\$11,000.00
8	11.01 CONCRETE ENCASEMENT	LF	80	\$150.00	\$12,000.00	\$42.00	\$3,360.00	\$160.00	\$12,800.00
9	11.04 8" PLUG AND BLOCK	EA	2	\$100.00	\$200.00	\$325.00	\$650.00	\$400.00	\$800.00
10	11.05 AIR RELEASE VALVE (MATERIALS SUPPLIED BY NKWD)	EA	4	\$1,200.00	\$4,800.00	\$250.00	\$1,000.00	\$350.00	\$1,400.00
11	11.06 8"x8"x6" ANCHORING TEES AND BLOCKS	EA	20	\$200.00	\$4,000.00	\$265.00	\$5,300.00	\$250.00	\$5,000.00
12	11.07 8"x8"x8" DUCTILE IRON TEE AND BLOCK	EA	1	\$200.00	\$200.00	\$395.00	\$395.00	\$400.00	\$400.00
13	11.11 TEST TAP	EA	2	\$1,000.00	\$2,000.00	\$500.00	\$1,000.00	\$600.00	\$1,200.00
14	12.05 ASPHALTIC CONCRETE MILLING AND PAVING (KDOT Spec's)	SY	2,600	\$11.00	\$28,600.00	\$9.00	\$23,400.00	\$7.50	\$19,500.00
15	12.05 ASPHALTIC CONCRETE MILLING AND PAVING (Campbell County. Spec's)	SY	1,600	\$11.00	\$17,600.00	\$9.00	\$14,400.00	\$7.50	\$12,000.00

No. 7399 P. 5

Oct. 15. 2010 5:11PM

**BID TABULATIONS FOR  
NORTHERN KY WATER DISTRICT  
SUB-DISTRICT H  
PHASE 3 - WESLEY CHAPEL**

ITEM No.	DESCRIPTION	UNIT OF MEASURE	ESTIMATED QUANTITY	CUMBERLAND PIPELINE, LLC		M&W EXCAVATION CO., INC.		G.M. PIPELINE	
				UNIT COST TOTAL	TOTAL COST	UNIT COST TOTAL	TOTAL COST	UNIT COST TOTAL	TOTAL COST
16	12.06 ASPHALTIC CONCRETE	SY	925	\$12.00	\$11,100.00	\$60.00	\$55,500.00	\$0.01	\$9.25
17	12.07 ASPHALTIC DRIVEWAY	SY	40	\$12.00	\$480.00	\$65.00	\$2,600.00	\$35.00	\$1,400.00
18	12.10 CONCRETE DRIVEWAY	SY	225	\$60.00	\$13,500.00	\$45.00	\$10,125.00	\$60.00	\$13,500.00
19	12.12 CONCRETE SIDEWALK	SY	10	\$60.00	\$600.00	\$100.00	\$1,000.00	\$45.00	\$450.00
20	12.13 GRAVEL DRIVEWAY/PARKING AREA	SY	700	\$20.00	\$14,000.00	\$7.00	\$4,900.00	\$5.00	\$3,500.00
21	12.14 BEST MANAGEMENT PRACTICE-SWPPP	LS	1	\$10,000.00	\$10,000.00	\$22,500.00	\$22,500.00	\$3,000.00	\$3,000.00
<b>TOTAL CONTRACTOR BID</b>					<b>\$590,458.00</b>		<b>\$794,141.25</b>		<b>\$825,443.00</b>

No. 7399 P. 6

Oct. 15. 2010 5:11PM

**BID TABULATIONS FOR  
NORTHERN KY WATER DISTRICT  
SUB-DISTRICT H  
PHASE 3 - WESLEY CHAPEL**

No. 7399 P. 7

EM No.	DESCRIPTION	UNIT OF MEASURE	ESTIMATED QUANTITY	HUBERT EXCAVATING & CONTRACTING, LLC		CLAY PIPELINE, INC.		THE FORD DEVELOPMENT CORP.		DUDLEY CONSTRUCTION CO., INC.	
				UNIT COST TOTAL	TOTAL COST	UNIT COST TOTAL	TOTAL COST	UNIT COST TOTAL	TOTAL COST	UNIT COST TOTAL	TOTAL COST
16	12.06 ASPHALTIC CONCRETE	SY	925	\$40.00	\$37,000.00	\$25.00	\$23,125.00	\$18.00	\$16,650.00	\$65.75	\$60,818.75
17	12.07 ASPHALTIC DRIVEWAY	SY	40	\$21.00	\$840.00	\$25.00	\$1,000.00	\$26.00	\$1,040.00	\$130.00	\$5,200.00
18	12.10 CONCRETE DRIVEWAY	SY	225	\$26.00	\$5,850.00	\$25.00	\$5,625.00	\$36.00	\$8,100.00	\$95.20	\$21,420.00
19	12.12 CONCRETE SIDEWALK	SY	10	\$15.00	\$150.00	\$25.00	\$250.00	\$36.00	\$360.00	\$75.00	\$750.00
20	12.13 GRAVEL DRIVEWAY/PARKING AREA	SY	700	\$3.50	\$2,450.00	\$10.00	\$7,000.00	\$5.00	\$3,500.00	\$9.10	\$6,370.00
21	12.14 BEST MANAGEMENT PRACTICE-SWPPP	LS	1	\$13,180.00	\$13,180.00	\$2,000.00	\$2,000.00	\$2,000.00	\$2,000.00	\$66,459.25	\$66,459.25
<b>TOTAL CONTRACTOR BID</b>					<b>\$829,800.00</b>		<b>\$852,560.00</b>		<b>\$922,722.50</b>		<b>\$935,160.00</b>

Oct. 15. 2010 5:11PM

**BID TABULATIONS FOR  
NORTHERN KY WATER DISTRICT  
SUB-DISTRICT H  
PHASE 3 - WESLEY CHAPEL**

ITEM No.	DESCRIPTION	UNIT OF MEASURE	ESTIMATED QUANTITY	RACK & BALLAUER EXCAVATING CO., INC.		LYKINS CONTRACTING INC.		PRUS CONSTRUCTION CO.	
				UNIT COST TOTAL	TOTAL COST	UNIT COST TOTAL	TOTAL COST	UNIT COST TOTAL	TOTAL COST
16	12.06 ASPHALTIC CONCRETE	SY	925	\$45.00	\$41,625.00	\$42.80	\$39,590.00	\$40.00	\$37,000.00
17	12.07 ASPHALTIC DRIVEWAY	SY	40	\$75.00	\$3,000.00	\$80.50	\$3,220.00	\$50.00	\$2,000.00
18	12.10 CONCRETE DRIVEWAY	SY	225	\$75.00	\$16,875.00	\$100.00	\$22,500.00	\$54.00	\$12,150.00
19	12.12 CONCRETE SIDEWALK	SY	10	\$75.00	\$750.00	\$86.00	\$860.00	\$54.00	\$540.00
20	12.13 GRAVEL DRIVEWAY/PARKING AREA	SY	700	\$15.00	\$10,500.00	\$5.00	\$3,500.00	\$11.00	\$7,700.00
21	12.14 BEST MANAGEMENT PRACTICE-SWPPP	LS	1	\$5,000.00	\$5,000.00	\$4,000.00	\$4,000.00	\$20,000.00	\$20,000.00
<b>TOTAL CONTRACTOR BID</b>					<b>\$980,340.00</b>		<b>\$1,037,780.00</b>		<b>\$1,125,265.00</b>

No. 7399 P. 8

Oct. 15. 2010 5:11PM

**BID TABULATIONS FOR  
NORTHERN KY WATER DISTRICT  
SUB-DISTRICT H  
PHASE 4 - MADDOX**

ITEM No.	DESCRIPTION	UNIT OF MEASURE	ESTIMATED QUANTITY	G.M. PIPELINE		CUMBERLAND PIPELINE, LLC		M & W EXCAVATION COMPANY, INC.		HUBERT EXCAVATING & CONTRACTING, LLC	
				UNIT COST TOTAL	TOTAL COST	UNIT COST TOTAL	TOTAL COST	UNIT COST TOTAL	TOTAL COST	UNIT COST TOTAL	TOTAL COST
1	6.01 8" CLASS 50 DUCTILE IRON PIPE (Detail 103, 103a, 104, 104a, 110)	LF	1,777	\$55.35	\$98,356.95	\$29.50	\$52,421.50	\$44.00	\$78,188.00	\$53.00	\$94,181.00
2	6.02.B 8" CLASS 50 DUCTILE IRON PIPE - RESTRAINED JOINT. (Detail 103, 103a, 104, 104a, 110)	LF	179	\$67.95	\$12,163.05	\$34.50	\$6,175.50	\$51.00	\$9,129.00	\$58.00	\$10,382.00
3	6.03 6" C-900 POLYVINYL CHLORIDE (PVC). (Detail 103, 103a, 104, 104a, 110)	LF	735	\$22.40	\$16,464.00	\$16.25	\$11,943.75	\$37.00	\$27,195.00	\$43.00	\$31,605.00
4	6.03 8" C-900 POLYVINYL CHLORIDE (PVC). (Detail 103, 103a, 104, 104a, 110)	LF	5,161	\$46.10	\$237,922.10	\$26.75	\$138,056.75	\$38.00	\$196,118.00	\$47.00	\$242,567.00
5	7.01 CONNECT TO EX. 6" MAIN	EA	1	\$500.00	\$500.00	\$2,600.00	\$2,600.00	\$300.00	\$300.00	\$500.00	\$500.00
6	8.01 INSTALL FIRE HYDRANT ASSEMBLY	EA	10	\$2,500.00	\$25,000.00	\$3,200.00	\$32,000.00	\$3,200.00	\$32,000.00	\$2,650.00	\$26,500.00
7	8.01 INSTALL FIRE HYDRANT ASSEMBLY (HIGH PRESSURE)	EA	2	\$2,500.00	\$5,000.00	\$3,350.00	\$6,700.00	\$3,300.00	\$6,600.00	\$3,700.00	\$7,400.00
8	9.01 6" DUCTILE IRON RESILIENT SEATED GATE VALVE	EA	3	\$600.00	\$1,800.00	\$1,000.00	\$3,000.00	\$800.00	\$2,400.00	\$800.00	\$2,400.00
9	9.01 8" DUCTILE IRON RESILIENT SEATED GATE VALVE	EA	8	\$900.00	\$7,200.00	\$1,350.00	\$10,800.00	\$1,000.00	\$8,000.00	\$1,000.00	\$8,000.00
10	11.01 CONCRETE ENCASEMENT	LF	30	\$40.00	\$1,200.00	\$28.00	\$840.00	\$60.00	\$1,800.00	\$125.00	\$3,750.00
11	11.04 6" PLUG AND BLOCK	EA	1	\$200.00	\$200.00	\$2,100.00	\$2,100.00	\$100.00	\$100.00	\$500.00	\$500.00
12	11.04 8" PLUG AND BLOCK	EA	3	\$200.00	\$600.00	\$2,325.00	\$6,975.00	\$100.00	\$300.00	\$500.00	\$1,500.00
13	11.05 AIR RELEASE VALVE (MATERIALS SUPPLIED BY NKWD)	EA	1	\$500.00	\$500.00	\$600.00	\$600.00	\$500.00	\$500.00	\$350.00	\$350.00
14	11.06 6"x6"x6" ANCHORING TEES AND BLOCKS	EA	1	\$250.00	\$250.00	\$750.00	\$750.00	\$400.00	\$400.00	\$350.00	\$350.00

No. 7401 P. 3

Oct. 15. 2010 5:17PM

**BID TABULATIONS FOR  
NORTHERN KY WATER DISTRICT  
SUB-DISTRICT H  
PHASE 4 - MADDOX**

No. 7401 P. 4

Oct. 15, 2010 5:17PM

ITEM No.	DESCRIPTION	UNIT OF MEASURE	ESTIMATED QUANTITY	RACK & BALLAUER EXCAVATING CO., INC.		THE FORD DEVELOPMENT CORP.		JACK GEMMER & SONS, INC.		NOTES	LYKINS CONTRACTING, INC.	
				UNIT COST TOTAL	TOTAL COST	UNIT COST TOTAL	TOTAL COST	UNIT COST TOTAL	TOTAL COST		UNIT COST TOTAL	TOTAL COST
1	6.01 8" CLASS 50 DUCTILE IRON PIPE (Detail 103, 103a, 104, 104a, 110)	LF	1,777	\$48.50	\$86,184.50	\$50.00	\$88,850.00	\$60.00	\$106,620.00		\$55.00	\$97,735.00
2	6.02.B 8" CLASS 50 DUCTILE IRON PIPE - RESTRAINED JOINT. (Detail 103, 103a, 104, 104a, 110)	LF	179	\$56.00	\$10,024.00	\$65.00	\$11,635.00	\$74.00	\$13,246.00		\$60.00	\$10,740.00
3	6.03 6" C-900 POLYVINYL CHLORIDE (PVC). (Detail 103, 103a, 104, 104a, 110)	LF	735	\$46.00	\$33,810.00	\$50.00	\$36,750.00	\$52.00	\$38,220.00		\$44.00	\$32,340.00
4	6.03 8" C-900 POLYVINYL CHLORIDE (PVC). (Detail 103, 103a, 104, 104a, 110)	LF	5,161	\$45.50	\$234,825.50	\$42.50	\$219,342.50	\$56.00	\$289,016.00		\$61.00	\$314,821.00
5	7.01 CONNECT TO EX. 6" MAIN	EA	1	\$250.00	\$250.00	\$5,000.00	\$5,000.00	\$1,200.00	\$1,200.00		\$2,635.00	\$2,635.00
6	8.01 INSTALL FIRE HYDRANT ASSEMBLY	EA	10	\$3,100.00	\$31,000.00	\$5,000.00	\$50,000.00	\$2,500.00	\$25,000.00		\$2,690.00	\$26,900.00
7	8.01 INSTALL FIRE HYDRANT ASSEMBLY (HIGH PRESSURE)	EA	2	\$3,600.00	\$7,200.00	\$5,500.00	\$11,000.00	\$2,600.00	\$5,200.00		\$3,190.00	\$6,380.00
8	9.01 6" DUCTILE IRON RESILIENT SEATED GATE VALVE	EA	3	\$565.00	\$1,695.00	\$800.00	\$2,400.00	\$650.00	\$1,950.00		\$720.00	\$2,160.00
9	9.01 8" DUCTILE IRON RESILIENT SEATED GATE VALVE	EA	8	\$910.00	\$7,280.00	\$1,000.00	\$8,000.00	\$900.00	\$7,200.00		\$1,090.00	\$8,720.00
10	11.01 CONCRETE ENCASEMENT	LF	30	\$38.00	\$1,140.00	\$40.00	\$1,200.00	\$30.00	\$900.00		\$42.00	\$1,260.00
11	11.04 6" PLUG AND BLOCK	EA	1	\$100.00	\$100.00	\$400.00	\$400.00	\$250.00	\$250.00		\$325.00	\$325.00
12	11.04 8" PLUG AND BLOCK	EA	3	\$100.00	\$300.00	\$400.00	\$1,200.00	\$350.00	\$1,050.00		\$325.00	\$975.00
13	11.05 AIR RELEASE VALVE (MATERIALS SUPPLIED BY NKWD)	EA	1	\$500.00	\$500.00	\$100.00	\$100.00	\$250.00	\$250.00		\$250.00	\$250.00
14	11.06 6"x6"x6" ANCHORING TEES AND BLOCKS	EA	1	\$175.00	\$175.00	\$1,500.00	\$1,500.00	\$300.00	\$300.00		\$255.00	\$255.00

**BID TABULATIONS FOR  
NORTHERN KY WATER DISTRICT  
SUB-DISTRICT H  
PHASE 4 - MADDOX**

ITEM No.	DESCRIPTION	UNIT OF MEASURE	ESTIMATED QUANTITY	G.M. PIPELINE		CUMBERLAND PIPELINE, LLC		M & W EXCAVATION COMPANY, INC.		HUBERT EXCAVATING & CONTRACTING, LLC	
				UNIT COST TOTAL	TOTAL COST	UNIT COST TOTAL	TOTAL COST	UNIT COST TOTAL	TOTAL COST	UNIT COST TOTAL	TOTAL COST
15	11.06 8"x8"x6" ANCHORING TEES AND BLOCKS	EA	11	\$250.00	\$2,750.00	\$900.00	\$9,900.00	\$450.00	\$4,950.00	\$400.00	\$4,400.00
16	11.07 6"x6"x6" DUCTILE IRON TEE AND BLOCK <i>(Cut Into Ex. 6" Main)</i>	EA	1	\$2,500.00	\$2,500.00	\$1,900.00	\$1,900.00	\$4,000.00	\$4,000.00	\$1,000.00	\$1,000.00
17	11.07 8"x8"x8" DUCTILE IRON TEE AND BLOCK	EA	2	\$250.00	\$500.00	\$1,050.00	\$2,100.00	\$500.00	\$1,000.00	\$225.00	\$450.00
18	11.09 8"-6" REDUCER	EA	3	\$200.00	\$600.00	\$400.00	\$1,200.00	\$150.00	\$450.00	\$300.00	\$900.00
19	11.11 TEST TAP	EA	1	\$350.00	\$350.00	\$800.00	\$800.00	\$600.00	\$600.00	\$350.00	\$350.00
20	11.16 2" HDPE PIPE. (Detail 115)	LF	270	\$24.15	\$6,520.50	\$11.50	\$3,105.00	\$15.00	\$4,050.00	\$12.00	\$3,240.00
21	11.17 2" CONNECTION w/CORP. STOP (DETAIL 115)	EA	2	\$650.00	\$1,300.00	\$450.00	\$900.00	\$600.00	\$1,200.00	\$750.00	\$1,500.00
22	11.18 2"x2"x1" TEE w/CORP. STOP (DETAIL 115)	EA	2	\$350.00	\$700.00	\$420.00	\$840.00	\$600.00	\$1,200.00	\$550.00	\$1,100.00
23	12.05 ASPHALTIC CONCRETE MILLING AND PAVING	SY	4,050	\$8.50	\$34,425.00	\$30.00	\$121,500.00	\$8.00	\$32,400.00	\$9.50	\$38,475.00
24	12.06 ASPHALTIC CONCRETE	SY	1,180	\$0.01	\$11.80	\$40.00	\$47,200.00	\$50.00	\$59,000.00	\$40.00	\$47,200.00
25	12.07 ASPHALTIC DRIVEWAY	SY	40	\$0.01	\$0.40	\$30.00	\$1,200.00	\$50.00	\$2,000.00	\$30.00	\$1,200.00
26	12.09 CONCRETE STREET RESTORATION	SY	80	\$80.00	\$6,400.00	\$60.00	\$4,800.00	\$60.00	\$4,800.00	\$36.00	\$2,880.00
27	12.10 CONCRETE DRIVEWAY	SY	260	\$60.00	\$15,600.00	\$60.00	\$15,600.00	\$40.00	\$10,400.00	\$26.00	\$6,760.00
28	12.12 GRAVEL DRIVEWAY/PARKING AREA	SY	250	\$5.00	\$1,250.00	\$20.00	\$5,000.00	\$10.00	\$2,500.00	\$3.50	\$875.00
29	12.14 BEST MANAGEMENT PRACTICE (SWPPP)	LS	1	\$500.00	\$500.00	\$10,000.00	\$10,000.00	\$15,000.00	\$15,000.00	\$9,685.00	\$9,685.00
<b>TOTAL CONTRACTOR BID</b>											
					\$480,563.80		\$501,007.50		\$506,580.00		\$550,000.00
NOTE: Jack Gemmer had math error on Total Contractor Bid. He showed \$606,527.00 and the correct Total Bid should be \$607,777.00											

No. 7401 P. 5

Oct. 15, 2010 5:17PM

**BID TABULATIONS FOR  
NORTHERN KY WATER DISTRICT  
SUB-DISTRICT H  
PHASE 4 - MADDOX**

No. 7401 P. 6

Oct. 15, 2010 5:18PM

ITEM No.	DESCRIPTION	UNIT OF MEASURE	ESTIMATED QUANTITY	RACK & BALLAUER EXCAVATING CO., INC.		THE FORD DEVELOPMENT CORP.		JACK GEMMER & SONS, INC.		NOTES	LYKINS CONTRACTING, INC.		
				UNIT COST TOTAL	TOTAL COST	UNIT COST TOTAL	TOTAL COST	UNIT COST TOTAL	TOTAL COST		UNIT COST TOTAL	TOTAL COST	
15	11.06 8"x8"x6" ANCHORING TEES AND BLOCKS	EA	11	\$225.00	\$2,475.00	\$2,000.00	\$22,000.00	\$325.00	\$3,575.00		\$320.00	\$3,520.00	
16	11.07 6"x6"x6" DUCTILE IRON TEE AND BLOCK {Cut Into Ex. 6" Main}	EA	1	\$350.00	\$350.00	\$3,000.00	\$3,000.00	\$1,800.00	\$1,800.00		\$315.00	\$315.00	
17	11.07 8"x8"x8" DUCTILE IRON TEE AND BLOCK	EA	2	\$265.00	\$530.00	\$1,000.00	\$2,000.00	\$350.00	\$700.00		\$360.00	\$720.00	
18	11.09 8"-6" REDUCER	EA	3	\$90.00	\$270.00	\$500.00	\$1,500.00	\$250.00	\$750.00		\$202.00	\$606.00	
19	11.11 TEST TAP	EA	1	\$950.00	\$950.00	\$100.00	\$100.00	\$250.00	\$250.00		\$500.00	\$500.00	
20	11.16 2" HDPE PIPE. (Detail 115)	LF	270	\$15.00	\$4,050.00	\$30.00	\$8,100.00	\$35.00	\$9,450.00		\$12.50	\$3,375.00	
21	11.17 2" CONNECTION w/CORP. STOP (DETAIL 115)	EA	2	\$180.00	\$360.00	\$400.00	\$800.00	\$450.00	\$900.00		\$360.00	\$720.00	
22	11.18 2"x2"x1" TEE w/CORP. STOP (DETAIL 115)	EA	2	\$125.00	\$250.00	\$400.00	\$800.00	\$225.00	\$450.00		\$465.00	\$930.00	
23	12.05 ASPHALTIC CONCRETE MILLING AND PAVING	SY	4,050	\$10.80	\$43,740.00	\$9.00	\$36,450.00	\$13.00	\$52,650.00		\$9.00	\$36,450.00	
24	12.06 ASPHALTIC CONCRETE	SY	1,180	\$40.00	\$47,200.00	\$25.00	\$29,500.00	\$25.00	\$29,500.00		\$42.80	\$50,504.00	
25	12.07 ASPHALTIC DRIVEWAY	SY	40	\$45.00	\$1,800.00	\$25.00	\$1,000.00	\$50.00	\$2,000.00		\$80.50	\$3,220.00	
26	12.09 CONCRETE STREET RESTORATION	SY	80	\$90.00	\$7,200.00	\$50.00	\$4,000.00	\$70.00	\$5,600.00		\$100.00	\$8,000.00	
27	12.10 CONCRETE DRIVEWAY	SY	260	\$67.50	\$17,550.00	\$45.00	\$11,700.00	\$25.00	\$6,500.00		\$100.00	\$26,000.00	
28	12.12 GRAVEL DRIVEWAY/PARKING AREA	SY	250	\$5.00	\$1,250.00	\$20.00	\$5,000.00	\$5.00	\$1,250.00		\$5.00	\$1,250.00	
29	12.14 BEST MANAGEMENT PRACTICE (SWPPP)	LS	1	\$2,000.00	\$2,000.00	\$1,000.00	\$1,000.00	\$2,000.00	\$2,000.00		\$3,000.00	\$3,000.00	
<b>TOTAL CONTRACTOR BID</b>							<b>\$544,459.00</b>		<b>\$564,327.50</b>		<b>\$607,777.00</b>	<b>*1</b>	<b>\$644,606.00</b>
<b>NOTE: Jack Gemmer had math error on Total Contractor Bid. He showed \$606,527.00 and the correct Total Bid should be \$607,777.00</b>													

Case No. 2010-\_\_\_\_  
Exhibit     C    

# NORTHERN KENTUCKY WATER DISTRICT

Sub-district H Water Main Extension Project

Campbell County, Kentucky

Project 184-654

## Engineer's Recommendation of Award



**VIOX & VIOX**  
Civil Engineers, Surveyors, and Landscape Architects

466 Erlanger Road  
Erlanger, Kentucky 41018

Tel: 859.727.3293  
Fax: 859.727.8452  
www.vioxinc.com

October 14, 2010

Northern Kentucky Water District  
P.O. Box 18640  
2835 Crescent Springs Road  
Erlanger, KY 41018

ATTN: Richard Harrison, P.E.

RE: Sub-District H – Phase 1  
(Rifle Range Road, Enzweiler Road, Orlando Drive & Barrs Branch Road)  
Campbell County

Dear Mr. Harrison,

We have reviewed the bids received October 12, 2010 for the Sub-District H – Phase 1 – Project, (Rifle Range Road, Enzweiler Road, Orlando Drive & Barrs Branch Road), Campbell County, KY. The breakdown of the bids has been provided to your staff and to the contractors.

The low bidder was M & W Excavation Company, Inc. with a bid of \$475,369.00, well under our estimate of \$651,932.00 and \$119,591.75 less than the second lowest bid received. Five of the eight bidders were under our estimate dated 9/15/10.

M & W Excavation Company, Inc. has been a contractor for the NKWD in the past. Therefore, it is our recommendation that the contract should be awarded to them for \$475,369.00.

Hopefully, this recommendation is sufficient for your Commission to make a decision.

Yours truly,

William R. Viox, P.E., P.L.S.



# VIOX & VIOX

Civil Engineers, Surveyors, and Landscape Architects

466 Erlanger Road  
Erlanger, Kentucky 41018

Tel: 859.727.3293  
Fax: 859.727.6452  
www.vioxinc.com

October 14, 2010

Northern Kentucky Water District  
P.O. Box 18640  
2835 Crescent Springs Road  
Erlanger, KY 41018

ATTN: Richard Harrison, P.E.

RE: Sub-District H – Phase 2  
(Creektrace Road, Indian Trace Road, JoAnn Lane,  
Lauren Lane & John Miller Road), Campbell County

Dear Mr. Harrison,

We have reviewed the bids received October 12, 2010 for the Sub-District H – Phase 2 – Project, (Creektrace Road, Indian Trace Road, JoAnn Lane, Lauren Lane & John Miller Road), Campbell County, KY. The breakdown of the bids has been provided to your staff and to the contractors.

The low bidder was Cumberland Pipeline, LLC with a bid of \$1,495,814.50, well under our estimate of \$1,909,913.00 and \$17,171.80 less than the second lowest bid received. Nine of the ten bidders were under our estimate dated 9/15/2010.

Cumberland Pipeline, LLC has not been a contractor for the NKWD in the past. We reviewed all references provided by Cumberland Pipeline and had a positive response. It is our recommendation that the contract should be awarded to them for \$1,495,814.50

Hopefully, this recommendation is sufficient for your Commission to make a decision.

Yours truly,

William R. Viox, P.E., P.L.S.



# VIOX & VIOX

Civil Engineers, Surveyors, and Landscape Architects

466 Erlanger Road  
Erlanger, Kentucky 41018

Tel: 859.727.3293  
Fax: 859.727.8452  
www.vioxinc.com

October 14, 2010

Northern Kentucky Water District  
P.O. Box 18640  
2835 Crescent Springs Road  
Erlanger, KY 41018

ATTN: Richard Harrison, P.E.

RE: Sub-District H – Phase 3  
(Wesley Chapel Road and Schababerle Hill)  
Campbell County

Dear Mr. Harrison,

We have reviewed the bids received October 12, 2010 for the Sub-District H – Phase 3 – Project, (Wesley Chapel Road and Schababerle Hill), Campbell County, KY. The breakdown of the bids has been provided to your staff and to the contractors.

The low bidder was Cumberland Pipeline, LLC with a bid of \$590,458.00, well under our estimate of \$996,210.00 and \$203,683.25 less than the second lowest bid received. Eight of the ten bidders were under our estimate dated 9/15/2010.

Cumberland Pipeline, LLC has not been a contractor for the NKWD in the past. We reviewed all references provided by Cumberland Pipeline and had a positive response. It is our recommendation that the contract should be awarded to them for \$590,458.00.

Hopefully, this recommendation is sufficient for your Commission to make a decision.

Yours truly,

William R. Viox, P.E., P.L.S.



# VIOX & VIOX

Civil Engineers, Surveyors, and Landscape Architects

466 Erlanger Road  
Erlanger, Kentucky 41018

Tel: 859.727.3293  
Fax: 859.727.8452  
www.vioxinc.com

October 14, 2010

Northern Kentucky Water District  
P.O. Box 18640  
2835 Crescent Springs Road  
Erlanger, KY 41018

ATTN: Richard Harrison, P.E.

RE: Sub-District H – Phase 4  
(Maddox Road, Cory Lane, and Pleasant Ridge Road)  
Campbell County

Dear Mr. Harrison,

We have reviewed the bids received October 12, 2010 for the Sub-District H – Phase 4 – Project, (Maddox Road, Cory Lane, and Pleasant Ridge Road), Campbell County, KY. The breakdown of the bids has been provided to your staff and to the contractors.

The low bidder was G. M. Pipeline with a bid of \$480,563.80, well under our estimate of \$600,523.00 and \$20,443.70 less than the second lowest bid received. Six of the eight bidders were under our estimate dated 9/15/2010.

G.M. Pipeline has been a contractor for the NKWD in the past. Therefore, it is our recommendation that the contract should be awarded to them for \$480,563.80.

Hopefully, this recommendation is sufficient for your Commission to make a decision.

Yours truly,

William R. Viox, P.E., P.L.S.

Case No. 2010-\_\_\_\_  
Exhibit     C    

# NORTHERN KENTUCKY WATER DISTRICT

Sub-district H Water Main Extension Project

Campbell County, Kentucky

Project 184-654

## Board Meeting Minutes

**Draft (Minutes have not yet been approved by the Board)**

**Northern Kentucky Water District  
Board of Commissioners Regular Meeting  
October 19, 2010**

A regular meeting of the Board of Commissioners of the Northern Kentucky Water District was held on October 19, 2010 at the District's facility located at 2835 Crescent Springs Road in Erlanger, Kentucky. All Commissioners were present except Commissioner Jackson and Commissioner Macke. Also present were Ron Lovan, Bill Wulfeck, Jack Bragg, and Brian Dunham, Bob Buhrlage, and Richard Harrison. The following individuals also attended the meeting for the audience participation section: Garth Kuhnhein, Monica Roberts, Jim Dugan, Joanne Dugan, and Tom Wurtz.

Chairman Collins called the meeting to order at 2:08 p.m.

Audience participation took place from 2:09 p.m. to 2:58 p.m. Mr. Kuhnhein, Ms. Roberts, Mr. Dugan, and Mr. Wurtz each addressed the Board individually to discuss the District's pending rate case before the Public Service Commission and, in particular, the District's need to construct improvements to its water treatment facilities in order to comply with EPA regulations. At the completion of their comments and prior to their departure, Chairman Collins thanked the individuals for attending the meeting and making their thoughts and concerns known to the Board.

The Commissioners reviewed correspondence received and articles published since the last regular Board meeting on September 16, 2010.

On motion of Commissioner Wagner, seconded by Commissioner Koester, the Commissioners unanimously approved the minutes for the regular Board meeting held on September 16, 2010.

On motion of Commissioner Sommerkamp, seconded by Commissioner Wagner, and after discussion, the Commissioners unanimously approved the expenditures of the District for the month of September, 2010.

On motion of Commissioner Sommerkamp, seconded by Commissioner Koester, the Commissioners unanimously approved the resolution to change the District's representative for the Drinking Water State Revolving Fund Projects and Grant Projects to Richard Harrison and/or Jack Bragg, each in their capacity as a Vice President of the District, and authorized the District staff to execute the Kentucky Infrastructure Authority's documents and any other appropriate documents.

On motion unanimously approved the District's acceptance of the bids by M&W Excavating for Phase 1, Cumberland Pipeline of Commissioner Wagner, seconded by Commissioner Koester, the Commissioners, LLC for Phase 2, Cumberland Pipeline, LLC for

Phase 3 and G.M. Pipeline for Phase 4 of the Sub-District H Water Main Extension Project, Campbell County, and authorized the District staff to execute the appropriate contract documents.

On motion of Commissioner Sommerkamp, seconded by Commissioner Wagner, the Commissioners unanimously approved the District's acceptance of the bid by and awarding a contract to The Ford Development Corporation for the Garrard Street Water Main Replacement Project, and authorized the District staff to execute the appropriate contract documents.

On motion of Commissioner Koester, seconded by Commissioner Wagner, the Commissioners unanimously approved the District's acceptance of the bid by and awarding a contract to Paul Michels & Sons for the Forest Avenue Water Main Replacement Project, and authorized the District staff to execute the appropriate contract documents.

On motion of Commissioner Sommerkamp, seconded by Commissioner Wagner, the Commissioners unanimously approved the 2011 Operating and Maintenance (O&M), 2011 Operating Capital, and the Five-Year Capital Projects Budgets (2011-2015).

The Commissioners reviewed the District's financial reports and Department reports.

The Northern Kentucky Water District monthly planning calendars were discussed.

On motion of Commissioner Wagner, seconded by Commissioner Sommerkamp, the Commissioners unanimously agreed to go into executive session under the provisions of KRS 61.810(1)(c) to discuss pending litigation against or on behalf of the District and to protect the District's legal interests and strategy in connection with such litigation. The executive session commenced at 4:40 p.m. and ended at 5:03 p.m.

Other matters of a general nature were discussed.

There being no further business to come before the Board, the meeting was adjourned at 5:03 p.m.

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CHAIRMAN

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SECRETARY



# NORTHERN KENTUCKY WATER DISTRICT

## Sub-district H Water Main Extension Project

### Campbell County, Kentucky

#### Project 184-654

## PROJECT FINANCE INFORMATION

Customers Added and Revenue Effect

Debt Issuance and Source of Debt

Additional Costs for Operating and Maintenance

USoA Plant Account

Depreciation Cost and Debt Service After Construction

# Northern Kentucky Water District

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Customers Added and Revenue Effect: There will be 255 new customers added and a revenue effect of \$104,805.00 a year as a result of the Sub-district H Water Main Extension Project.

Debt Issuance and Source of Debt: The project grant funding was finalized with the approval of the 2010 State of Kentucky Budget in the Infrastructure for Economic Development Fund for Non-coal Producing Counties HB608 in the amount of \$2,950,000.00. Campbell County Fiscal Court has also contributed \$25,000.00 to this project. The remainder of the project cost will be funded by the Northern Kentucky Water District Contribution of \$250,000.00 a hydraulic contribution \$391,887.00, and a customer contribution of \$933,842.00. The customer contribution will be paid back through a maximum monthly surcharge of \$30.00 on the customer's water bill. The Northern Kentucky Water District's contribution, the hydraulic contribution and the customer surcharge will be funded through a Bond Anticipation Notice in the year 2010. This project has a total budget of \$4,555,860.00, which includes construction cost, engineering, materials, and contingencies. A summary of the project costs is provided below:

○ Design Engineering	\$169,484.00
○ Geo Technical Engineering	\$47,667.00
○ Geotechnical Inspection	\$12,711.00
○ KIA Cost	\$14,750.00
○ Legal	\$5,000.00
○ Contractor's Bids	
● Phase I	\$475,369.00
● Phase II	\$1,495,814.50
● Phase III	\$599,458.00
● Phase IV	\$480,563.80
○ Future Phases & Contingencies	\$1,255,042.70
Total Project Cost	\$4,555,860.00

The project will be funded through Bond Anticipation Notice in the year 2010.

Additional Costs and O&M: N/A

Depreciation and Debt Service: Annual depreciation and debt service after construction are as follows:

Depreciation for the first four phases: \$52,813.08/year over 62.5 years for Account 331  
Transmission and Distribution Mains

Debt Service: See attached sheets for Surcharge amount and total Bond Anticipation Notice

NORTHERN KENTUCKY  
WATER DISTRICT

Sub-district H Water Main Extension Project

Campbell County, Kentucky

Project 184-654

Debt service for the Surcharge Amount

**Northern Kentucky Water Service District**  
 Taxable Revenue Build America Bonds, Series 2010-EST  
 (Projected - Sub-District H - \$933,842)

**Sources & Uses**

Dated 12/01/2010 | Delivered 12/01/2010

<b>Sources Of Funds</b>	
Par Amount of Bonds	\$1,040,000.00
<b>Total Sources</b>	<b>\$1,040,000.00</b>
<b>Uses Of Funds</b>	
Total Underwriter's Discount (1.000%)	10,400.00
Costs of Issuance	10,400.00
Deposit to Debt Service Reserve Fund (DSRF)	81,447.50
Deposit to Project Construction Fund	933,842.00
Rounding Amount	3,910.50
<b>Total Uses</b>	<b>\$1,040,000.00</b>

**Northern Kentucky Water Service District**  
**Taxable Revenue Build America Bonds, Series 2010-EST**  
 (Projected - Sub-District H - \$933,842)

Part 1 of 2

**Pricing Summary**

<b>Maturity</b>	<b>Type of Bond</b>	<b>Coupon</b>	<b>Yield</b>	<b>Maturity Value</b>	<b>Price</b>	<b>Dollar Price</b>
02/01/2012	Serial Coupon	1.500%	1.500%	30,000.00	100.000%	30,000.00
02/01/2013	Serial Coupon	1.650%	1.650%	35,000.00	100.000%	35,000.00
02/01/2014	Serial Coupon	2.050%	2.050%	35,000.00	100.000%	35,000.00
02/01/2015	Serial Coupon	2.350%	2.350%	35,000.00	100.000%	35,000.00
02/01/2016	Serial Coupon	2.600%	2.600%	35,000.00	100.000%	35,000.00
02/01/2017	Serial Coupon	3.000%	3.000%	35,000.00	100.000%	35,000.00
02/01/2018	Serial Coupon	3.400%	3.400%	35,000.00	100.000%	35,000.00
02/01/2019	Serial Coupon	3.700%	3.700%	35,000.00	100.000%	35,000.00
02/01/2020	Serial Coupon	4.100%	4.100%	35,000.00	100.000%	40,000.00
02/01/2021	Serial Coupon	4.300%	4.300%	40,000.00	100.000%	40,000.00
02/01/2022	Serial Coupon	4.500%	4.500%	40,000.00	100.000%	40,000.00
02/01/2023	Serial Coupon	4.650%	4.650%	40,000.00	100.000%	40,000.00
02/01/2024	Serial Coupon	4.750%	4.750%	40,000.00	100.000%	45,000.00
02/01/2025	Serial Coupon	4.850%	4.850%	45,000.00	100.000%	45,000.00
02/01/2026	Serial Coupon	5.000%	5.000%	45,000.00	100.000%	45,000.00
02/01/2027	Serial Coupon	5.100%	5.100%	45,000.00	100.000%	50,000.00
02/01/2028	Serial Coupon	5.250%	5.250%	50,000.00	100.000%	50,000.00
02/01/2029	Serial Coupon	5.400%	5.400%	50,000.00	100.000%	50,000.00
02/01/2030	Serial Coupon	5.500%	5.500%	50,000.00	100.000%	55,000.00
02/01/2031	Serial Coupon	5.600%	5.600%	55,000.00	100.000%	55,000.00
02/01/2032	Serial Coupon	5.700%	5.700%	55,000.00	100.000%	55,000.00
02/01/2033	Serial Coupon	5.750%	5.750%	55,000.00	100.000%	60,000.00
02/01/2034	Serial Coupon	5.800%	5.800%	60,000.00	100.000%	60,000.00
02/01/2035	Serial Coupon	5.850%	5.850%	60,000.00	100.000%	60,000.00
<b>Total</b>	-	-	-	<b>\$1,040,000.00</b>	-	<b>\$1,040,000.00</b>

**Northern Kentucky Water Service District**

Taxable Revenue Build America Bonds, Series 2010-EST

(Projected - Sub-District H - \$933,842)

**Pricing Summary**

Part 2 of 2

**Bid Information**

---

Par Amount of Bonds	\$1,040,000.00
Gross Production	\$1,040,000.00
Total Underwriter's Discount (1.000%)	\$(10,400.00)
Bid (99.000%)	1,029,600.00
Total Purchase Price	\$1,029,600.00
Bond Year Dollars	\$14,593.33
Average Life	14.032 Years
Average Coupon	3.3366865%
Net Interest Cost (NIC)	3.4079520%
True Interest Cost (TIC)	3.3839072%

**Northern Kentucky Water Service District**  
**Taxable Revenue Build America Bonds, Series 2010-EST**  
 (Projected - Sub-District H - \$933,842)

Part 1 of 2

**Net Debt Service Schedule**

Date	Principal	Coupon	Interest	Federal Pmt.	Total P+i	DSR	Net New D/S
02/01/2011	-	-	7,816.25	(2,735.68)	5,080.57	-	5,080.57
08/01/2011	-	-	23,448.75	(8,207.06)	15,241.69	-	15,241.69
02/01/2012	30,000.00	1.500%	23,448.75	(8,207.06)	45,241.69	-	45,241.69
08/01/2012	-	-	23,223.75	(8,128.31)	15,095.44	-	15,095.44
02/01/2013	35,000.00	1.650%	23,223.75	(8,128.31)	50,095.44	-	50,095.44
08/01/2013	-	-	22,935.00	(8,027.25)	14,907.75	-	14,907.75
02/01/2014	35,000.00	2.050%	22,935.00	(8,027.25)	49,907.75	-	49,907.75
08/01/2014	-	-	22,576.25	(7,901.68)	14,674.57	-	14,674.57
02/01/2015	35,000.00	2.350%	22,576.25	(7,901.68)	49,674.57	-	49,674.57
08/01/2015	-	-	22,165.00	(7,757.75)	14,407.25	-	14,407.25
02/01/2016	35,000.00	2.600%	22,165.00	(7,757.75)	49,407.25	-	49,407.25
08/01/2016	-	-	21,710.00	(7,598.50)	14,111.50	-	14,111.50
02/01/2017	35,000.00	3.000%	21,710.00	(7,598.50)	49,111.50	-	49,111.50
08/01/2017	-	-	21,185.00	(7,414.75)	13,770.25	-	13,770.25
02/01/2018	35,000.00	3.400%	21,185.00	(7,414.75)	48,770.25	-	48,770.25
08/01/2018	-	-	20,590.00	(7,206.50)	13,383.50	-	13,383.50
02/01/2019	35,000.00	3.700%	20,590.00	(7,206.50)	48,383.50	-	48,383.50
08/01/2019	-	-	19,942.50	(6,979.87)	12,962.63	-	12,962.63
02/01/2020	35,000.00	4.100%	19,942.50	(6,979.87)	47,962.63	-	47,962.63
08/01/2020	-	-	19,225.00	(6,728.75)	12,496.25	-	12,496.25
02/01/2021	40,000.00	4.300%	19,225.00	(6,728.75)	52,496.25	-	52,496.25
08/01/2021	-	-	18,365.00	(6,427.75)	11,937.25	-	11,937.25
02/01/2022	40,000.00	4.500%	18,365.00	(6,427.75)	51,937.25	-	51,937.25
08/01/2022	-	-	17,465.00	(6,112.75)	11,352.25	-	11,352.25
02/01/2023	40,000.00	4.650%	17,465.00	(6,112.75)	51,352.25	-	51,352.25
08/01/2023	-	-	16,535.00	(5,787.25)	10,747.75	-	10,747.75
02/01/2024	40,000.00	4.750%	16,535.00	(5,787.25)	50,747.75	-	50,747.75

2010 Taxable BAB-SUB Dist | SINGLE PURPOSE | 10/20/2010 | 4:48 PM

**Ross, Sinclair & Associates, LLC**  
 Public Finance - KBrock

**Northern Kentucky Water Service District**

Taxable Revenue Build America Bonds, Series 2010-EST

(Projected - Sub-District H - \$933,842)

**Net Debt Service Schedule**

Part 2 of 2

Date	Principal	Coupon	Interest	Federal Pmt.	Total P+I	DSR	Net New D/S
08/01/2024	-	-	15,585.00	(5,454.75)	10,130.25	-	10,130.25
02/01/2025	45,000.00	4.850%	15,585.00	(5,454.75)	55,130.25	-	55,130.25
08/01/2025	-	-	14,493.75	(5,072.81)	9,420.94	-	9,420.94
02/01/2026	45,000.00	5.000%	14,493.75	(5,072.81)	54,420.94	-	54,420.94
08/01/2026	-	-	13,368.75	(4,679.06)	8,689.69	-	8,689.69
02/01/2027	45,000.00	5.100%	13,368.75	(4,679.06)	53,689.69	-	53,689.69
08/01/2027	-	-	12,221.25	(4,277.43)	7,943.82	-	7,943.82
02/01/2028	50,000.00	5.250%	12,221.25	(4,277.43)	57,943.82	-	57,943.82
08/01/2028	-	-	10,908.75	(3,818.06)	7,090.69	-	7,090.69
02/01/2029	50,000.00	5.400%	10,908.75	(3,818.06)	57,090.69	-	57,090.69
08/01/2029	-	-	9,558.75	(3,345.56)	6,213.19	-	6,213.19
02/01/2030	50,000.00	5.500%	9,558.75	(3,345.56)	56,213.19	-	56,213.19
08/01/2030	-	-	8,183.75	(2,864.31)	5,319.44	-	5,319.44
02/01/2031	55,000.00	5.600%	8,183.75	(2,864.31)	60,319.44	-	60,319.44
08/01/2031	-	-	6,643.75	(2,325.31)	4,318.44	-	4,318.44
02/01/2032	55,000.00	5.700%	6,643.75	(2,325.31)	59,318.44	-	59,318.44
08/01/2032	-	-	5,076.25	(1,776.68)	3,299.57	-	3,299.57
02/01/2033	55,000.00	5.750%	5,076.25	(1,776.68)	58,299.57	-	58,299.57
08/01/2033	-	-	3,495.00	(1,223.25)	2,271.75	-	2,271.75
02/01/2034	60,000.00	5.800%	3,495.00	(1,223.25)	62,271.75	-	62,271.75
08/01/2034	-	-	1,755.00	(614.25)	1,140.75	-	1,140.75
02/01/2035	60,000.00	5.850%	1,755.00	(614.25)	61,140.75	(81,447.50)	(20,306.75)
08/01/2035	-	5.850%	-	-	-	-	-
<b>Total</b>	<b>\$1,040,000.00</b>	<b>-</b>	<b>\$749,128.75</b>	<b>(262,194.96)</b>	<b>\$1,526,933.79</b>	<b>(81,447.50)</b>	<b>\$1,445,486.29</b>

**Northern Kentucky Water Service District**

Taxable Revenue Build America Bonds, Series 2010-EST

(Projected - Sub-District H - \$933,842)

**Net Debt Service Schedule**

Date	Principal	Coupon	Interest	Federal Pmt.	Total P+I	DSR	Net New D/S
12/31/2010	-	-	-	-	-	-	-
12/31/2011	-	-	31,265.00	(10,942.74)	20,322.26	-	20,322.26
12/31/2012	30,000.00	1.500%	46,672.50	(16,335.37)	60,337.13	-	60,337.13
12/31/2013	35,000.00	1.650%	46,158.75	(16,155.56)	65,003.19	-	65,003.19
12/31/2014	35,000.00	2.050%	45,511.25	(15,928.93)	64,582.32	-	64,582.32
12/31/2015	35,000.00	2.350%	44,741.25	(15,659.43)	64,081.82	-	64,081.82
12/31/2016	35,000.00	2.600%	43,875.00	(15,356.25)	63,518.75	-	63,518.75
12/31/2017	35,000.00	3.000%	42,895.00	(15,013.25)	62,881.75	-	62,881.75
12/31/2018	35,000.00	3.400%	41,775.00	(14,621.25)	62,153.75	-	62,153.75
12/31/2019	35,000.00	3.700%	40,532.50	(14,186.37)	61,346.13	-	61,346.13
12/31/2020	35,000.00	4.100%	39,167.50	(13,708.62)	60,458.88	-	60,458.88
12/31/2021	40,000.00	4.300%	37,590.00	(13,156.50)	64,433.50	-	64,433.50
12/31/2022	40,000.00	4.500%	35,830.00	(12,540.50)	63,289.50	-	63,289.50
12/31/2023	40,000.00	4.650%	34,000.00	(11,900.00)	62,100.00	-	62,100.00
12/31/2024	40,000.00	4.750%	32,120.00	(11,242.00)	60,878.00	-	60,878.00
12/31/2025	45,000.00	4.850%	30,078.75	(10,527.56)	64,551.19	-	64,551.19
12/31/2026	45,000.00	5.000%	27,862.50	(9,751.87)	63,110.63	-	63,110.63
12/31/2027	45,000.00	5.100%	25,590.00	(8,956.49)	61,633.51	-	61,633.51
12/31/2028	50,000.00	5.250%	23,130.00	(8,095.49)	65,034.51	-	65,034.51
12/31/2029	50,000.00	5.400%	20,467.50	(7,163.62)	63,303.88	-	63,303.88
12/31/2030	50,000.00	5.500%	17,742.50	(6,209.87)	61,532.63	-	61,532.63
12/31/2031	55,000.00	5.600%	14,827.50	(5,189.62)	64,637.88	-	64,637.88
12/31/2032	55,000.00	5.700%	11,720.00	(4,101.99)	62,618.01	-	62,618.01
12/31/2033	55,000.00	5.750%	8,571.25	(2,999.93)	60,571.32	-	60,571.32
12/31/2034	60,000.00	5.800%	5,250.00	(1,837.50)	63,412.50	-	63,412.50
12/31/2035	60,000.00	5.850%	1,755.00	(614.25)	61,140.75	(81,447.50)	(20,306.75)
<b>Total</b>	<b>\$1,040,000.00</b>	<b>-</b>	<b>\$749,128.75</b>	<b>(262,194.96)</b>	<b>\$1,526,933.79</b>	<b>(81,447.50)</b>	<b>\$1,445,486.29</b>

NORTHERN KENTUCKY  
WATER DISTRICT

Sub-district H Water Main Extension Project

Campbell County, Kentucky

Project 184-654

Debt service for the Total Bond Anticipation Notice

**Northern Kentucky Water Service District**

Taxable Revenue Build America Bonds, Series 2010-EST

(Projected - Sub-District H - \$1,580,860)

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**Report**

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**Northern Kentucky Water Service District**  
 Taxable Revenue Build America Bonds, Series 2010-EST  
 (Projected - Sub-District H - \$1,580,860)

**Sources & Uses**

Dated 12/01/2010 | Delivered 12/01/2010

<b>Sources Of Funds</b>	
Par Amount of Bonds	\$1,750,000.00
<b>Total Sources</b>	<b>\$1,750,000.00</b>
<b>Uses Of Funds</b>	
Total Underwriter's Discount (1.000%)	17,500.00
Costs of Issuance	17,500.00
Deposit to Debt Service Reserve Fund (DSRF)	134,115.00
Deposit to Project Construction Fund	1,580,860.00
Rounding Amount	25.00
<b>Total Uses</b>	<b>\$1,750,000.00</b>

**Northern Kentucky Water Service District**  
**Taxable Revenue Build America Bonds, Series 2010-EST**  
**(Projected - Sub-District H - \$1,580,860)**

**Pricing Summary**

Part 1 of 2

<b>Maturity</b>	<b>Type of Bond</b>	<b>Coupon</b>	<b>Yield</b>	<b>Maturity Value</b>	<b>Price</b>	<b>Dollar Price</b>
02/01/2012	Serial Coupon	1.500%	1.500%	55,000.00	100.000%	55,000.00
02/01/2013	Serial Coupon	1.650%	1.650%	55,000.00	100.000%	55,000.00
02/01/2014	Serial Coupon	2.050%	2.050%	55,000.00	100.000%	55,000.00
02/01/2015	Serial Coupon	2.350%	2.350%	55,000.00	100.000%	55,000.00
02/01/2016	Serial Coupon	2.600%	2.600%	55,000.00	100.000%	55,000.00
02/01/2017	Serial Coupon	3.000%	3.000%	60,000.00	100.000%	60,000.00
02/01/2018	Serial Coupon	3.400%	3.400%	60,000.00	100.000%	60,000.00
02/01/2019	Serial Coupon	3.700%	3.700%	60,000.00	100.000%	60,000.00
02/01/2020	Serial Coupon	4.100%	4.100%	65,000.00	100.000%	65,000.00
02/01/2021	Serial Coupon	4.300%	4.300%	65,000.00	100.000%	65,000.00
02/01/2022	Serial Coupon	4.500%	4.500%	65,000.00	100.000%	65,000.00
02/01/2023	Serial Coupon	4.650%	4.650%	70,000.00	100.000%	70,000.00
02/01/2024	Serial Coupon	4.750%	4.750%	70,000.00	100.000%	70,000.00
02/01/2025	Serial Coupon	4.850%	4.850%	75,000.00	100.000%	75,000.00
02/01/2026	Serial Coupon	5.000%	5.000%	75,000.00	100.000%	75,000.00
02/01/2027	Serial Coupon	5.100%	5.100%	80,000.00	100.000%	80,000.00
02/01/2028	Serial Coupon	5.250%	5.250%	80,000.00	100.000%	80,000.00
02/01/2029	Serial Coupon	5.400%	5.400%	85,000.00	100.000%	85,000.00
02/01/2030	Serial Coupon	5.500%	5.500%	85,000.00	100.000%	85,000.00
02/01/2031	Serial Coupon	5.600%	5.600%	90,000.00	100.000%	90,000.00
02/01/2032	Serial Coupon	5.700%	5.700%	90,000.00	100.000%	90,000.00
02/01/2033	Serial Coupon	5.750%	5.750%	95,000.00	100.000%	95,000.00
02/01/2034	Serial Coupon	5.800%	5.800%	100,000.00	100.000%	100,000.00
02/01/2035	Serial Coupon	5.850%	5.850%	105,000.00	100.000%	105,000.00
<b>Total</b>	-	-	-	<b>\$1,750,000.00</b>	-	<b>\$1,750,000.00</b>

**Northern Kentucky Water Service District**

Taxable Revenue Build America Bonds, Series 2010-EST

(Projected - Sub-District H - \$1,580,860)

**Pricing Summary**

Part 2 of 2

**Bid Information**

---

Par Amount of Bonds	\$1,750,000.00
Gross Production	\$1,750,000.00
Total Underwriter's Discount (1.000%)	\$(17,500.00)
Bid (99.000%)	1,732,500.00
Total Purchase Price	\$1,732,500.00
Bond Year Dollars	\$24,636.67
Average Life	14.078 Years
Average Coupon	3.3390582%
Net Interest Cost (NIC)	3.4100905%
True Interest Cost (TIC)	3.3865013%

**Northern Kentucky Water Service District**

Taxable Revenue Build America Bonds, Series 2010-EST

(Projected - Sub-District H - \$1,580,860)

Part 1 of 2

**Net Debt Service Schedule**

Date	Principal	Coupon	Interest	Federal Pmt.	Total P+I	DSR	Net New D/S
02/01/2011	-	-	13,185.83	(4,615.04)	8,570.79	-	8,570.79
08/01/2011	-	-	39,557.50	(13,845.12)	25,712.38	-	25,712.38
02/01/2012	55,000.00	1.500%	39,557.50	(13,845.12)	80,712.38	-	80,712.38
08/01/2012	-	-	39,145.00	(13,700.75)	25,444.25	-	25,444.25
02/01/2013	55,000.00	1.650%	39,145.00	(13,700.75)	80,444.25	-	80,444.25
08/01/2013	-	-	38,691.25	(13,541.93)	25,149.32	-	25,149.32
02/01/2014	55,000.00	2.050%	38,691.25	(13,541.93)	80,149.32	-	80,149.32
08/01/2014	-	-	38,127.50	(13,344.62)	24,782.88	-	24,782.88
02/01/2015	55,000.00	2.350%	38,127.50	(13,344.62)	79,782.88	-	79,782.88
08/01/2015	-	-	37,481.25	(13,118.43)	24,362.82	-	24,362.82
02/01/2016	55,000.00	2.600%	37,481.25	(13,118.43)	79,362.82	-	79,362.82
08/01/2016	-	-	36,766.25	(12,868.18)	23,898.07	-	23,898.07
02/01/2017	60,000.00	3.000%	36,766.25	(12,868.18)	83,898.07	-	83,898.07
08/01/2017	-	-	35,866.25	(12,553.18)	23,313.07	-	23,313.07
02/01/2018	60,000.00	3.400%	35,866.25	(12,553.18)	83,313.07	-	83,313.07
08/01/2018	-	-	34,846.25	(12,196.18)	22,650.07	-	22,650.07
02/01/2019	60,000.00	3.700%	34,846.25	(12,196.18)	82,650.07	-	82,650.07
08/01/2019	-	-	33,736.25	(11,807.68)	21,928.57	-	21,928.57
02/01/2020	65,000.00	4.100%	33,736.25	(11,807.68)	86,928.57	-	86,928.57
08/01/2020	-	-	32,403.75	(11,341.31)	21,062.44	-	21,062.44
02/01/2021	65,000.00	4.300%	32,403.75	(11,341.31)	86,062.44	-	86,062.44
08/01/2021	-	-	31,006.25	(10,852.18)	20,154.07	-	20,154.07
02/01/2022	65,000.00	4.500%	31,006.25	(10,852.18)	85,154.07	-	85,154.07
08/01/2022	-	-	29,543.75	(10,340.31)	19,203.44	-	19,203.44
02/01/2023	70,000.00	4.650%	29,543.75	(10,340.31)	89,203.44	-	89,203.44
08/01/2023	-	-	27,916.25	(9,770.68)	18,145.57	-	18,145.57
02/01/2024	70,000.00	4.750%	27,916.25	(9,770.68)	88,145.57	-	88,145.57

Northern Kentucky Water Service District  
 Taxable Revenue Build America Bonds, Series 2010-EST  
 (Projected - Sub-District H - \$1,580,860)

Part 2 of 2

Net Debt Service Schedule

Date	Principal	Coupon	Interest	Federal Pmt.	Total P+I	DSR	Net New D/S
			26,253.75	(9,188.81)	17,064.94	-	17,064.94
08/01/2024	-	-	26,253.75	(9,188.81)	92,064.94	-	92,064.94
02/01/2025	75,000.00	4.850%	24,435.00	(8,552.25)	15,882.75	-	15,882.75
08/01/2025	-	-	24,435.00	(8,552.25)	90,882.75	-	90,882.75
02/01/2026	75,000.00	5.000%	22,560.00	(7,896.00)	14,664.00	-	14,664.00
08/01/2026	-	-	22,560.00	(7,896.00)	94,664.00	-	94,664.00
02/01/2027	80,000.00	5.100%	20,520.00	(7,182.00)	13,338.00	-	13,338.00
08/01/2027	-	-	20,520.00	(7,182.00)	93,338.00	-	93,338.00
02/01/2028	80,000.00	5.250%	18,420.00	(6,447.00)	11,973.00	-	11,973.00
08/01/2028	-	-	18,420.00	(6,447.00)	96,973.00	-	96,973.00
02/01/2029	85,000.00	5.400%	16,125.00	(5,643.75)	10,481.25	-	10,481.25
08/01/2029	-	-	16,125.00	(5,643.75)	95,481.25	-	95,481.25
02/01/2030	85,000.00	5.500%	13,787.50	(4,825.62)	8,961.88	-	8,961.88
08/01/2030	-	-	13,787.50	(4,825.62)	98,961.88	-	98,961.88
02/01/2031	90,000.00	5.600%	11,267.50	(3,943.62)	7,323.88	-	7,323.88
08/01/2031	-	-	11,267.50	(3,943.62)	97,323.88	-	97,323.88
02/01/2032	90,000.00	5.700%	8,702.50	(3,045.87)	5,656.63	-	5,656.63
08/01/2032	-	-	8,702.50	(3,045.87)	100,656.63	-	100,656.63
02/01/2033	95,000.00	5.750%	5,971.25	(2,089.93)	3,881.32	-	3,881.32
08/01/2033	-	-	5,971.25	(2,089.93)	103,881.32	-	103,881.32
02/01/2034	100,000.00	5.800%	3,071.25	(1,074.93)	1,996.32	-	1,996.32
08/01/2034	-	-	3,071.25	(1,074.93)	106,996.32	(134,115.00)	(27,118.68)
02/01/2035	105,000.00	5.850%	-	-	-	-	-
08/01/2035	-	5.850%	-	-	-	-	-
<b>Total</b>	<b>\$1,750,000.00</b>		<b>\$1,265,588.33</b>	<b>(442,955.70)</b>	<b>\$2,572,632.63</b>	<b>(134,115.00)</b>	<b>\$2,438,517.63</b>

**Northern Kentucky Water Service District**

Taxable Revenue Build America Bonds, Series 2010-EST

(Projected - Sub-District H - \$1,580,860)

**Net Debt Service Schedule**

Date	Principal	Coupon	Interest	Federal Pmt.	Total P+I	DSR	Net New D/S
12/31/2010	-	-	-	-	-	-	-
12/31/2011	-	-	52,743.33	(18,460.16)	34,283.17	-	34,283.17
12/31/2012	55,000.00	1.500%	78,702.50	(27,545.87)	106,156.63	-	106,156.63
12/31/2013	55,000.00	1.650%	77,836.25	(27,242.68)	105,593.57	-	105,593.57
12/31/2014	55,000.00	2.050%	76,818.75	(26,886.55)	104,932.20	-	104,932.20
12/31/2015	55,000.00	2.350%	75,608.75	(26,463.05)	104,145.70	-	104,145.70
12/31/2016	55,000.00	2.600%	74,247.50	(25,986.61)	103,260.89	-	103,260.89
12/31/2017	60,000.00	3.000%	72,632.50	(25,421.36)	107,211.14	-	107,211.14
12/31/2018	60,000.00	3.400%	70,712.50	(24,749.36)	105,963.14	-	105,963.14
12/31/2019	60,000.00	3.700%	68,582.50	(24,003.86)	104,578.64	-	104,578.64
12/31/2020	65,000.00	4.100%	66,140.00	(23,148.99)	107,991.01	-	107,991.01
12/31/2021	65,000.00	4.300%	63,410.00	(22,193.49)	106,216.51	-	106,216.51
12/31/2022	65,000.00	4.500%	60,550.00	(21,192.49)	104,357.51	-	104,357.51
12/31/2023	70,000.00	4.650%	57,460.00	(20,110.99)	107,349.01	-	107,349.01
12/31/2024	70,000.00	4.750%	54,170.00	(18,959.49)	105,210.51	-	105,210.51
12/31/2025	75,000.00	4.850%	50,688.75	(17,741.06)	107,947.69	-	107,947.69
12/31/2026	75,000.00	5.000%	46,995.00	(16,448.25)	105,546.75	-	105,546.75
12/31/2027	80,000.00	5.100%	43,080.00	(15,078.00)	108,002.00	-	108,002.00
12/31/2028	80,000.00	5.250%	38,940.00	(13,629.00)	105,311.00	-	105,311.00
12/31/2029	85,000.00	5.400%	34,545.00	(12,090.75)	107,454.25	-	107,454.25
12/31/2030	85,000.00	5.500%	29,912.50	(10,469.37)	104,443.13	-	104,443.13
12/31/2031	90,000.00	5.600%	25,055.00	(8,769.24)	106,285.76	-	106,285.76
12/31/2032	90,000.00	5.700%	19,970.00	(6,989.49)	102,980.51	-	102,980.51
12/31/2033	95,000.00	5.750%	14,673.75	(5,135.80)	104,537.95	-	104,537.95
12/31/2034	100,000.00	5.800%	9,042.50	(3,164.86)	105,877.64	-	105,877.64
12/31/2035	105,000.00	5.850%	3,071.25	(1,074.93)	106,996.32	(134,115.00)	(27,118.68)
<b>Total</b>	<b>\$1,750,000.00</b>	<b>-</b>	<b>\$1,265,588.33</b>	<b>(442,955.70)</b>	<b>\$2,572,632.63</b>	<b>(134,115.00)</b>	<b>\$2,438,517.63</b>

**Northern Kentucky Water Service District**

Taxable Revenue Build America Bonds, Series 2010-EST

(Projected - Sub-District H - \$933,842)

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# NORTHERN KENTUCKY WATER DISTRICT

Sub-district H Water Main Extension Project

Campbell County, Kentucky

Project 184-654

PSC ANNUAL REPORT – 2009

**CLASS A & B  
WATER DISTRICTS AND ASSOCIATIONS**

**ANNUAL REPORT  
OF**

**Northern Kentucky Water District**

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**2835 Crescent Springs Road, Erlanger, Kentucky 41018**

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**TO THE  
PUBLIC SERVICE COMMISSION  
OF THE  
COMMONWEALTH OF KENTUCKY**

**211 SOWER BOULEVARD  
P. O. BOX 615  
FRANKFORT, KENTUCKY 40602**

**FOR THE CALENDAR YEAR ENDED DECEMBER 31, 2009**



Checklist for the Annual Report for C Ware Companies  
To be completed and returned with the annual report

Page No.	Account No.		Page No.		Yes	No	If no, explain why
4 to 6		The identification pages have been completed.			X		
7	101-106	agrees with	13	Total 101-106	X		
7	108-110	agrees with	15	Total 301-348 Cols c & h	X		
7	114-115	agrees with	16	Net Blanace 114-115	X		
7	123	agrees with	17	Total 123	X		
7	124-125	agrees with	17	Total 124 & Total 125	X		
7	126	agrees with	17	Total 126	X		
7	127	agrees with	17	Total 127	X		
7	141-144	agrees with	18	Net Balance 141-144	X		
7	151-153	agrees with	19	Total 151-153	X		
7	162	agrees with	19	Total 162	X		
8	181	agrees with	20	Total 181	X		
8	182	agrees with	21	Total 182	X		
8	186	agrees with	20	Total 186	X		
9	214	agrees with	12	Total 214	X		
9	215.1	agrees with	12	Total 215.1	X		
9	215.2	agrees with	12	Total 215.2	X		
9	221	agrees with	23	Total Col 4	X		
9	221	agrees with	23	Total Col 12	X		
9	224	agrees with	22	Total Col f	X		
9	232	agrees with	24	Total 232	X		
9	223	agrees with	24	Total 233	X		
9	234	agrees with	24	Total 234	X		
9	236	agrees with	25	Beginning & Ending Balance 236	X		
9	237	agrees with	25	Total 237 Cols b & e	X		
9	242	agrees with	26	Total 242	X		
9	251	agrees with	20	Total 251	X		
9	252	agrees with	21	Beginning & Ending Balance 252	X		

**Checklist for the Annual Report for C Ware Companies**  
**To be completed and returned with the annual report**

Page No.	Account No.	Page No.	Page No.	Description	Yes	No	If no, explain why
10	400	agrees with	27	Total Water Operating Revenue Col e	X		
10	401	agrees with	28	Total 601-675, Col c	X		
10	408.1&408.2	agrees with	25	Total Taxes Accrued 408-10-408.20	X		
11	427	agrees with	25	Total Interest Accrued Col c	X		
11	Net Income Before Contribution agrees with		12	Balance Trans Inc Col c	X		
13	101	agrees with	14	Total Water Plant Col f	X		
14	The analysis of water utility plant accounts cols c throuh k has been Completed				X		
27	The analysis of accumulated depreciation & amortization by primary accounts has been completed				X		
20	186.1	agrees with	26	Total 186.1 Col c	X		
22	Schedule of Long-Term Debt has been completed				X		
23	Schedule of Bond Maturities has been completed				X		
27	Taxes collected (example: school tax, sales tax, granchise tax) have been excluded from Revenue and Expenses				X		
27	The analysis of water operating revenue Cols c,d, and e has been completed				X		
28	The analysis of water utiltiy expense Cols c through k has been complete				X		
29	Schedule of Pumping and Purchased Water Statistics has been completed				X		
29	Total Col (d)	agrees with	30	Line 4, Total Production & Purchased	X		
29	Total Col (e)	agrees with	30	Line 13, Total Water Sales	X		
30	466 Total Gals	agrees with	30	Line 11, Sales for Resale (466)	X		
	Oath page has been completed				X		

**PUBLIC SERVICE COMMISSION OF KENTUCKY**  
**PRINCIPAL PAYMENT AND INTEREST INFORMATION**  
**FOR THE YEAR ENDING DECEMBER 31, 2008**

1. Amount of Principle Payment during calender year      \$      5,890,852.78
2. Is Principal Current?      Yes   X        No      \_\_\_\_\_
3. Is Interest Current ?      Yes   X        No      \_\_\_\_\_
4. Has all long-term debt been approved by the Public Service Commission?  
Yes   X        No      \_\_\_\_\_ PSC Case No \_\_\_\_\_

**SERVICES PERFORMED BY**

**INDEPENDENT CERTIFIED PUBLIC ACCOUNTANT ("CPA")**

Are your financial statement examined by a Certified Public Accountant?

Yes   X        No      \_\_\_\_\_

If yes, which service is performed?

Audit        X   \_\_\_\_\_

Compilation \_\_\_\_\_

Review      \_\_\_\_\_

**Please enclose a copy of the accountant's report with the annual report**

**ADDITIONAL REQUESTED INFORMATION**

Utility Name Norther Kentucky Water District

Contact Person Jack Bragg, Jr, CPA

Contact Person'ss E-Mail Address jbragg@nkywater.org

Utility's Web Address www.nkywater.org

**PLEASE COMPLETE THE ABOVE INFORMATION, IF IT IS AVAILABLE.**

**IF THERE ARE MULTIPLE STAFF WHO MAY BE CONTRACTS PLEASE INCLUDE THEIR NAMES AND E-MAIL ADDRESS ASLO.**

**Additional Information Required by Commission Orders**

Provide any special information required by prior Commission orders, as well as any narrative explanations necessary to fully explain the data. Examples of the types of special information that may be required by Commission orders include surcharge amounts, collected, refunds issued, and unusual debt requirements.

Case #	Date of Order	Item/Explanation	
96-234	8/26/1996	Merger of Campbell Co. Ky. Water District and Kenton Co. Water District No.1. Effective date of Merger 1/1/1997	
97-3	9/21/1997	Defeasance of the former Campbell Co. Ky. Water District Bonds Principal of the issue	\$9,630,000
92-482	3/14/1992	SubDistrict A a. Number of Customers as of 12-31-2008 b. Total Surcharge billed during 2008 c. Accumulated surcharge billed. d. Remaining Debt Service on debt which NKWD Issued to Finance Facilities	562 \$60,449 \$1,197,173 \$609,157
94-409	1/26/1995	SubDistrict B a. Number of Customers as of 12-31-2008 b. Total Surcharge billed during 2008 c. Accumulated surcharge billed. d. Remaining Debt Service on debt which NKWD Issued to Finance Facilities	284 \$63,263 \$715,874 \$19,451
95-582	2/8/1996	SubDistrict R a. Number of Customers as of 12-31-2008 b. Total Surcharge billed during 2008 c. Accumulated surcharge billed. d. Remaining Debt Service on debt which NKWD Issued to Finance Facilities	240 \$53,061 \$654,401 \$4,843,083
95-582	2/8/1996	SubDistrict RL a. Number of Customers as of 12-31-2008 b. Total Surcharge billed during 2008 c. Accumulated surcharge billed. d. Remaining Debt Service on debt which NKWD Issued to Finance Facilities	88 \$38,145 \$506,950 \$2,308,075
97-468	9/4/1998	Per Item 7 on the order. See attached exhibit ML 1	
2000-329	7/21/2000	SubDistrict C a. Number of Customers as of 12-31-2008 b. Total Surcharge billed during 2008 c. Accumulated surcharge billed. d. Remaining Debt Service on debt which NKWD Issued to Finance Facilities	961 \$221,612 \$1,366,896 \$5,636,005
2000-171	5/5/2000	SubDistrict D a. Number of Customers as of 12-31-2008 b. Total Surcharge billed during 2008 c. Accumulated surcharge billed. d. Remaining Debt Service on debt which NKWD Issued to Finance Facilities	150 \$53,423 \$278,358 \$1,048,507
2001-198	6/27/2001	Defeasance of the former Kenton County Water District No.1 Bonds - Principle Issue	\$45,448,000
2002-00363	10/1/2002	Defeasance of the former Klenton County Water District No.1 Bonds	\$10,575,000
2002-00468	3/1/2003	Defeasance of 1995C Bonds with Issuance of 2003A Bonds	\$1,615,000
2002-00105	4/30/2003	Water Rate Increase	

**Additional Information Required by Commission Orders - Continued**

2002-00105	6/1/2003	Issue of 2003 B Bonds	\$30,270,000
2003-00167	7/18/2003	SubDistrict E a. Number of Customers as of 12-31-2008 b. Total Surcharge billed during 2008 c. Accumulated surcharge billed. d. Remaining Debt Service on debt which NKWD Issued to Finance Facilities	177 \$6,286.00 \$215,500.00 \$2,185,654.00
2003-00191	7/18/2003	SubDistrict RF a. Number of Customers as of 12-31-2008 b. Total Surcharge billed during 2008 c. Accumulated surcharge billed. d. Remaining Debt Service on debt which NKWD Issued to Finance Facilities	29 \$8,484 \$44,321 \$180,292
2003-00224	6/14/2004	Issue of 2004A Bonds	\$10,455,000
2003-00224	6/14/2004	SubDistrict K a. Number of Customers as of 12-31-2008 b. Total Surcharge billed during 2008 c. Accumulated surcharge billed. d. Remaining Debt Service on debt which NKWD Issued to Finance Facilities	44 \$9,938 \$25,675 \$195,141
2003-00404	12/2/2003	Defeasance of 1993, 1195A and 1995B Bonds with Issuance of 2003C Bonds	\$23,790,000
2005-00148	4/28/2006	Water Rate Increase & Bond Issuance	\$29,000,000
2006-00315	12/26/2007	SubDistrict F a. Number of Customers as of 12-31-2008 b. Total Surcharge billed during 2008 c. Accumulated surcharge billed. d. Remaining Debt Service on debt which NKWD Issued to Finance Facilities	20 \$4,982 \$4,982 \$412,657
2007-00131	6/27/2007	SubDistrict G a. Number of Customers as of 12-31-2008 b. Total Surcharge billed during 2008 c. Accumulated srucharge billed. d. Remaining Debt Service on debt which NKWD Issued to Finance Facilities	46 \$5,454 \$5,454 \$1,041,668
2007-00135	12/21/2007	Water Rate Increase & Bond Issuance	\$30,075,125

## MAJOR WATER PROJECTS

Instructions: Provide details about each major water project which is planned but has not yet been submitted for approval to the Public Service Commission. For the limited purposed of this report a "Major Project" is defined as one which is not in the ordinary course of business, and which will increase your current utility plant by at least 20%

Brief Project Description (improvement, replacement, building construction, expansion.  
If expansion, provide the estimated number of new customers):

N/A

Projected Costs and Funding Sources/Amounts:

Approval Status: (Application for financial assistance filed, but not approved; or application approved, but have not advertised for construction bids)

Location: (community, area or nearby roads)

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## HISTORY

1. Exact name of utility making this report. (Use the words: "The, Company, Incorporated or Incorporated" only when a part of the corporate name.)

**Northern Kentucky Water District**

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2. Give location including city, street and number, of the executive office:

**2835 Crescent Springs Road  
P.O. Box 18640  
Erlanger, Kentucky 41018-0640**

---

3. Give the location, including street, street number, and telephone number of the principle office in Kentucky:

**Same as #2**

---

4. Date of organization:

**January 1, 1997**

---

5. If a consolidated or merged entity, name all the previously separate entities.

**Kenton County Water District  
Campbell County Water District**

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6. Date of each consolidation and each merger

**January 1, 1997**

7. State whether the respondent is a water district or association.

**Water District under Chapter 74 – KRS**

---

8. Name all operating departments other than water.

**None**

---

9. Name of counties in which you furnish water service.

**Kenton, Campbell, & Boone**

---

10. Give the number of employees:.

**Full Time: 155**

**Part Time: 16**

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COMPARATIVE BALANCE SHEET - ASSETS AND OTHER DEBITS

Account No. (a)	2008 Account Name (b)	Ref. Page ©	Previous Year (d)	Current Year (e)
	<b>UTILITY PLANT</b>			
101-106	Utility Plant	13	\$ 307,878,617	\$ 323,463,743
108-110	Less: Accumulated Depreciation and Amortization	13,15-16	(61,398,205)	(67,540,294)
	Net Plant		\$ 246,480,412	\$ 255,923,449
114-115	Utility Plant Acquisition Adjustments (Net)	16	3,866,351	3,665,231
116	Other Utility Plant Adjustments			
	Total Net Utility Plant		\$ 250,346,763	\$ 259,588,680
	<b>OTHER PROPERTY &amp; INVESTMENTS</b>			
121	Nonutility Property		\$	\$
122	Less: Accumulated Depreciation and Amortization			
	Net Nonutility Property		\$	\$
123	Investment in Asso. Companies	17		
124	Utility Investments	17	26,054,947	25,856,656
125	Other Investments	17	2,771,076	2,426,639
126-127	Special Funds	17		
	Total Other Property & Investments		\$ 28,826,023	\$ 28,283,295
	<b>CURRENT AND ACCRUED ASSETS</b>			
131	Cash		\$ 10,205,219	\$ 11,509,211
132	Special Deposits			
133	Other Special Deposits		19,167,438	15,081,881
134	Working Funds			
135	Temporary Cash Investments			
141-144	Accounts Receivable, Less Accumulated Provision for Uncollectible Accounts	18	5,610,489	5,538,813
145	Accounts Receivable from Associated Companies			
146	Notes Receivable from Associated Companies			
151-153	Materials & Supplies	19	1,289,823	1,268,952
161	Stores Expense			
162	Prepayments	19	246,623	898,284
171	Accrued Interest & Dividends Receivable			
172	Rents Receivable			
173	Accrued Utility Revenues		4,200,000	4,700,000
174	Misc. Current & Accrued Assets			
	Total Current & Accrued Assets		\$ 40,719,592	\$ 38,997,141

COMPARATIVE BALANCE SHEET - ASSETS AND OTHER DEBITS (CONT'D)

Account No. (a)	2008 Account Name (b)	Ref. Page c	Previous Year (d)	Current Year (e)
	<b>DEFERRED DEBITS</b>			
181	Unamortized Debt Discount & Expense	20	\$ 2,997,786	\$ 2,804,587
182	Extraordinary Property losses	21		
183	Preliminary Survey & Investagation Charges			
184	Clearing Accounts			
185	Temporary Facilities			
186	Misc. Deferred Debits	20	6,357,920	6,222,346
187	Research & Development Expenditures			
	Total Deferred Debits		\$ 9,355,706	\$ 9,026,933
	TOTAL ASSETS AND OTHER DEBITS		\$ 329,248,084	\$ 335,896,049

**COMPARATIVE BALANCE SHEET - EQUITY CAPITAL AND LIABILITIES**

Account No. (a)	2008 Account Name (b)	Ref. Page c	Previous Year (d)	Current Year (e)
<b>Equity Capital</b>				
214	Appropriated Retained Earnings	12	\$ 36,672,874	\$ 31,053,385
215.1	Retained Earnings from Income Before Contributions	12	\$ 35,057,198	\$ 46,085,772
215.2	Donated Capital	12	\$ 51,889,090	\$ 56,424,703
	Total Equity Capital		\$ 123,619,162	\$ 133,563,860
<b>LONG-TERM DEBT</b>				
221	Bonds	23	\$ 168,128,000	\$ 162,550,000
222	Reacquired Bonds			
223	Advances from Asso. Companies			
224	Other Long-Term Debt	22	1,875,000	4,973,035
	Total Long-Term Debt		\$ 170,003,000	\$ 167,523,035
<b>CURRENT &amp; ACCRUED LIABILITIES</b>				
231	Accounts Payable		\$ 3,139,763	\$ 2,504,050
232	Notes Payable	24	27,265,000	27,265,000
233	Acts. Payable to Asso. Co.	24		
234	Notes Payable to Asso. Co.	24		
235	Customer Deposits		11,207	10,310
236	Accrued Taxes	25		
237	Accrued Interest	25	3,251,310	3,181,843
239	Matured Long-Term Debt			
240	Matured Interest			
241	Tax Collections Payable			
242	Misc. Current & Accrued Liabilities	26	1,909,549	1,803,786
	Total Current & Accrued Liabilities		\$ 35,576,829	\$ 34,764,989
<b>DEFERRED CREDITS</b>				
251	Unamortized Premium on Debt	20	\$ 49,093	\$ 44,165
252	Advances for Construction	21		
253	Other Deferred Credits			
	Total Deferred Credits		49,093	44,165
<b>OPERATING RESERVES</b>				
Accumulated Provision for:				
261	Property Insurance		\$	\$
262	Injuries & Damages			
263	Pensions & Benefits			
265	Miscellaneous Operating Reserves			
	Total Operating Reserves		\$	\$
	<b>TOTAL EQUITY CAPITAL &amp; LIABILITIES</b>		\$ 329,248,084	\$ 335,896,049

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**COMPARATIVE OPERATING STATEMENT**

Acct. No. (a)	Account Name (b)	Ref. Page c	Previous Year (d)	Current Year (e)
	<b>Utility Operating Income</b>			
400	Operating Revenues	27	\$ 39,088,743	\$ 42,190,123
401	Operating Expenses	28	\$ 23,170,620	\$ 23,432,760
403	Depreciation Expenses		5,715,209	7,362,501
406	Amortization of Utility Plant			
	Acquisition Adjustment		201,120	201,120
407	Amortization Expense		378,962	378,962
408.1	Taxes Other Than Income	25	612,350	600,378
	Utility Operating Expenses		\$ 30,078,261	\$ 31,975,721
	Utility Operating Income		\$ 9,010,482	10,214,402
413	Income From Utility Plant Leased to Others			
414	Gains (Losses) From Disposition of Utility Property		(19,374)	211,231
	Total Utility Operating Income		\$ 8,991,108	\$ 10,425,633
	<b>Other Income and Deductions</b>			
415	Revenues From Merchandising, Jobbing and Contract Deductions		\$	\$
416	Costs and Expenses of Merchandising, Jobbing and Contract Work			
419	Interest & Dividend Income		2,506,262	2,112,845
420	Allowance for Funds Used During Construciton			
421	Nonutility Income		172,289	(30,113)
426	Miscellaneous Nonutility Expense			
	Total Other Income & Deductions		\$ 2,678,551	2,082,732
	<b>TAXES APPLICABLE TO OTHER INCOME</b>			
408.2	Taxes Other Than Income		\$	\$
	Total Taxes Applic. To Other Income		\$	\$

COMPARATIVE OPERATING STATEMENT - Continued

Account No. (a)	Account Name (b)	Ref. Page ©	Previous Year (d)	Current Year (e)
<b>INTEREST EXPENSE</b>				
427	Interest Expense		\$ 6,957,720	\$ 6,911,009
428	Amortization of Debt Discount & Exp.		201,571	188,269
429	Amortization of Premiun on Debt		4,928	-
	Total Interest Expense		\$ 7,154,363	\$ 7,099,278
<b>EXTRAORDINARY ITEMS</b>				
433	Extraordinary Income		\$	\$
434	Extraordinary Deductions		-	-
	Total Extraordinary Items		\$ -	\$ -
	NET INCOME		\$ 4,515,296	\$ 5,409,085

Statement of Retained Earnings

ACCT. No. (a)	2008 (b)	Amount (c)
214	Appropriated Retained Earnings (state balance and purpose of each appropriated amount at year end):	
	Bond Proceeds	\$ 15,081,881
	<u>Debt Service and Reserve</u>	<u>\$ 13,359,108</u>
	<u>Improvement, Repair and Replacement</u>	<u>\$ 2,612,396</u>
	Total Appropriated Retained Earnings.....	<u>\$ 31,053,385</u>

215.1	Retained Earnings From Income Before Contributions:	
	Balance Beginning of Year.....	\$ 35,057,198
435	Balance Transferred from Net Income Before Contributions.....	\$ 5,409,085
	Other Changes to Account:	
436	Appropriations of Retained Earnings.....	\$ 5,619,489
439	Adjustments to Retained Earnings (requires Commission approval prior to use):	
	Credits (explain) _____	\$ _____
	Debits (explain) _____	\$ _____
	Balance End of Year.....	<u>\$ 46,085,772</u>

215.2	Donated Capital:	
		Tapping Fees
		Grants
		Other
		Total
	Balance Beginning of Year.....	7,233,544
		13,417,368
		31,238,178
		<u>51,889,090</u>
	Credits:	
432	Proceeds from capital contributions.....	486,071
		4,049,542
		-
		<u>4,535,613</u>
	Other Credits (explain)	
	Debits:	
	(explain - Requires Commission Approval)	
	Balance End of Year.....	7,719,615
		17,466,910
		31,238,178
		<u>56,424,703</u>

NET UTILITY PLANT (ACCTS. 101 - 106)

Account No.	Plant Accounts	Total
101	Utility Plant in Service	\$ 283,903,489
102	Utility Plant Leased to Others	
103	Property Held for Future Use	
104	Utility Plant Purchased or Sold	
105	Construction Work in Progress	39,560,254
106	Completed Construction Not Classified	
	<b>Total Utility Plant</b>	\$ 323,463,743

ACCUMULATED DEPRECIATION (ACCT. 108)

Description	Total
Balance first of year	\$ 61,398,207
Credit during year:	
Accruals Charged to Account 108.1	7,362,501
Accruals Charged to Account 108.2	
Accruals Charged to Account 108.3	
Accruals Charged to Other Accounts (specify)	
_____	
Salvage	
Other Credits (specify)	
_____	
<b>Total Credits</b>	\$ 7,362,501
Debits during year:	
Book Cost of Plant Retired	\$ 1,220,414
Cost of Removal	
Other Debits (specify)	
_____	
_____	
<b>Total Debits</b>	\$ 1,220,414
<b>Balance end of year</b>	\$ 67,540,294

**WATER UTILITY PLANT ACCOUNTS**

Acct No. (a)	2008 Account Name (b)	End of Previous Year (c)	Additions (d)	Retirement (e)	End of Current Year (f)	.1 Intangible Plant Intan- (g)	.2 SOS & Pumping Plant (h)	.3 Water Treatment Plant (i)	.4 Trans & Distrib Plant (j)	.5 General Plant (k)
301	Organization						\$XXXXXXXX	\$XXXXXXXX	\$XXXXXXXX	\$XXXXXXXX
302	Franchises						\$XXXXXXXX	\$XXXXXXXX	\$XXXXXXXX	\$XXXXXXXX
303	Land & Land Rights	\$2,859,437	\$34,337		\$2,893,774	\$XXXXXXXX	29,200	72,496	192,530	2,599,548
304	Structures & Improvements	\$72,898,436	\$405,389	\$631,779	\$72,672,046	\$XXXXXXXX	47,476,573	7,701,646	11,933,262	5,560,565
305	Collecting & Impounding Reservoirs					\$XXXXXXXX		\$XXXXXXXX	\$XXXXXXXX	\$XXXXXXXX
306	Lake, River & Other Intakes	\$1,463,171			\$1,463,171	\$XXXXXXXX	1,463,171	\$XXXXXXXX	\$XXXXXXXX	\$XXXXXXXX
307	Wells and Springs					\$XXXXXXXX		\$XXXXXXXX	\$XXXXXXXX	\$XXXXXXXX
308	Infiltration Galleries & Tunnels							\$XXXXXXXX	\$XXXXXXXX	
309	Supply Mains	\$2,821,711			\$2,821,711	\$XXXXXXXX	2,821,711	\$XXXXXXXX	\$XXXXXXXX	\$XXXXXXXX
310	Power Generation Equipment					\$XXXXXXXX		\$XXXXXXXX	\$XXXXXXXX	\$XXXXXXXX
311	Pumping Equipment	\$9,567,388	\$174,775	\$2,576	\$9,739,587	\$XXXXXXXX	4,263,439	5,476,148	\$XXXXXXXX	\$XXXXXXXX
320	Water Treatment Equipment	\$10,286,622	\$91,120	\$2,104	\$10,375,638	\$XXXXXXXX	\$XXXXXXXX	10,375,638	\$XXXXXXXX	\$XXXXXXXX
330	Distribution Reservoirs & Standpipes	\$7,500,741	\$1,984,024		\$9,484,765	\$XXXXXXXX	\$XXXXXXXX	\$XXXXXXXX	9,484,765	\$XXXXXXXX
331	Transmission & Distribution Mains	\$123,822,269	\$3,219,063		\$127,041,332	\$XXXXXXXX	\$XXXXXXXX	\$XXXXXXXX	127,041,332	\$XXXXXXXX
333	Services	\$21,844,754	\$1,021,056		\$22,865,810	\$XXXXXXXX	\$XXXXXXXX	\$XXXXXXXX	22,865,810	\$XXXXXXXX
334	Metes & Meter Installations	\$7,737,814	\$165,744		\$7,903,558	\$XXXXXXXX	\$XXXXXXXX	\$XXXXXXXX	7,903,558	\$XXXXXXXX
335	Hydrants	\$5,484,015	\$220,303		\$5,704,318	\$XXXXXXXX	\$XXXXXXXX	\$XXXXXXXX	5,704,318	\$XXXXXXXX
336	Backflow Prevention Devices					\$XXXXXXXX	\$XXXXXXXX	\$XXXXXXXX		\$XXXXXXXX
339	Other Plant & Misc. Equipment	\$3,340,890	\$879	\$1,005	\$3,340,764				3,340,764	\$XXXXXXXX
340	Office Furniture & Equipment	\$2,410,692	\$149,808	\$27,177	\$2,533,323	\$XXXXXXXX	\$XXXXXXXX	\$XXXXXXXX	\$XXXXXXXX	2,533,323
341	Transportation Equipment	\$2,661,578	\$248,507	\$139,908	\$2,770,177	\$XXXXXXXX	\$XXXXXXXX	\$XXXXXXXX	\$XXXXXXXX	2,770,177
342	Stores Equipment	\$278,672		\$1,799	\$276,873	\$XXXXXXXX	\$XXXXXXXX	\$XXXXXXXX	\$XXXXXXXX	276,873
343	Tools, Shop, & Garage Equipment	\$132,169	\$23,283		\$155,452	\$XXXXXXXX	\$XXXXXXXX	\$XXXXXXXX	\$XXXXXXXX	155,452
344	Laboratory Equipment	\$66,086	\$28,605		\$94,691	\$XXXXXXXX	\$XXXXXXXX	\$XXXXXXXX	\$XXXXXXXX	94,691
345	Power Operated Equipment	\$786,449	\$59,901		\$846,350	\$XXXXXXXX	\$XXXXXXXX	\$XXXXXXXX	\$XXXXXXXX	846,350
346	Communication Equipment	\$286,136	\$64,677	\$28,368	\$322,445	\$XXXXXXXX	\$XXXXXXXX	\$XXXXXXXX	\$XXXXXXXX	322,445
347	Miscellaneous Equipment	\$597,746		\$45	\$597,701	\$XXXXXXXX	\$XXXXXXXX	\$XXXXXXXX	\$XXXXXXXX	597,701
348	Other Tangible Plant					\$XXXXXXXX	\$XXXXXXXX	\$XXXXXXXX	\$XXXXXXXX	
	<b>Total Water Plant</b>	<b>\$276,846,776</b>	<b>\$7,891,471</b>	<b>\$834,761</b>	<b>\$283,903,486</b>	<b>0</b>	<b>56,054,094</b>	<b>23,625,928</b>	<b>188,466,339</b>	<b>15,757,125</b>

Analysis of Accumulated Depreciation and Amortization by Primary Account

Acct. No. (a)	2008 Account (b)	Balance Beginning of Year c	Credits During the Year		Charges During The Year		Balance End of Year (h)
			Charges to Dep. Exp. (d)	Other Credits (e)	Plant Retirements (f)	Other Charges (g)	
301	Organization	\$	\$	\$	\$	\$	\$
302	Franchises						
303	Limited Term Interest in Land and Land Rights						
304	Structures & Improvements	16,262,186	2,377,223		420,388		18,219,021
305	Collecting & Impounding Reservoirs						
306	Lake River & Other Intakes	813,877	27,701				841,578
307	Wells & Srpings						
309	Supply Mains	414,539	57,586				472,125
310	Power Generating Equip.						
311	Pumping Equipment	4,510,728	506,823		2,459		5,015,092
320	Water Treatment Equip.	3,821,913	367,719		1,655		4,187,977
330	Distribution Reservoirs & Standpipes	2,943,671	280,690				3,224,361
331	Transmissions & Distribution Mains	14,896,971	2,006,413		455,963		16,447,421
333	Services	7,114,760	551,939		113,100		7,553,599
334	Meters & Meter Installations	1,908,926	137,863		-		2,046,789
335	Hydrants	1,347,155	152,246		29,250		1,470,150
339	Other Plant & Misc. Equip.	2,012,324	331,294		1,005		2,342,613
340	Office Furniture & Equip.	1,540,017	220,137		26,471		1,733,683
341	Transportation Equipment	2,017,932	252,076		139,908		2,130,100
342	Service Equipment						
343	Tools, Shop & Garage Equip.	323,500	20,734		1,799		342,435
344	Shop Equipment	40,455	18,162				58,617
345	Power Operated Equip.	555,624	51,614				607,238
346	Telecommunications Equipment	281,406	1,746		28,369		254,783
347	SCADA						
348	Other Tangible Plant	592,222	535		45		592,712
	<b>Totals</b>	\$ 61,398,206	\$ 7,362,501	\$ -	\$ 1,220,412	\$ -	\$ 67,540,294

**ACCUMULATED AMORTIZATION (ACCT. 110)**

Description	Total
Balance first of year.....	\$ N/A
Credit during year:	
Accruals Charged to Account 110.1...	\$
Accruals Charged to Account 110.2...	
Other Accruals (specify)	
<b>Total Credits.....</b>	\$
Debits during year:	
Book Cost of Plant Retired.....	\$
Other Debits (specify)	
<b>Total Debits.....</b>	\$
Balance end of year.....	\$

**UTILITY PLANT ACQUISITION ADJUSTMENT (ACCTS. 114 - 115)**

Report each acquisition adjustment and related accumulated amortization separately.  
For any acquisition adjustment approved by the Commission, include the Order Number.

ACCOUNT NAME	TOTAL
Acquisition Adjustments (114)	
Original District 9-14-55	\$ 263,366
District # 2 & 3 12-31-73	18,712
Mentor District 9-1-76	10,741
City of Cold Spring	228,253
City of Silver Grove	24,853
Newport Water Works	4,970,211
<b>Total Plant Acquisition Adjustments.....</b>	\$ 5,516,136
Accumulated Amortization (115)	
Original District 9-14-55	\$ 263,366
District # 2 & 3 12-31-73	18,712
Mentor District 9-1-76	10,741
City of Cold Spring	228,253
City of Silver Grove	24,853
Newport Water Works	1,304,980
<b>Total Accumulated Amortization.....</b>	\$ 1,850,905
<b>Net Acquisition Adjustments.....</b>	\$ 3,665,231

**Investments and Special Funds (Acct. 123-127)**

Report hereunder all investments and special funds carried in Account 123-127.

Description of Security or Special Fund (a)	Face or Par Value (b)	Year-End Book Cost c
Investment In Associated Companies (Acct. 123):		
_____	\$ _____	\$ _____
_____		_____
_____		_____
Total Investment in Asso. Companies		\$ _____
Utility Investments (Acct. 124):		
IRR Account	\$ _____	\$ 2,612,396
Debt Service Account		9,885,153
Debt Service Reserve Account		13,359,108
<b>Total Utility Investments</b>		\$ 25,856,657
Other Investments (Acct. 125):		
Boone County/Florence KY Settlement	\$ _____	\$ 2,426,639
_____	_____	_____
_____	_____	_____
<b>Total Other Investments:</b>	\$ _____	\$ 2,426,639
Special Funds (Acct. 126 & 127):		
Prepayment Reserve	_____	_____
_____	_____	_____
_____	_____	_____
<b>Total Special Funds</b>		\$ -

**ACCOUNTS AND NOTES RECEIVABLE - NET (ACCOUNTS 141 - 144)**

Report hereunder all accounts and notes receivable included in Accounts 141,142,and 144. Amounts included in Accounts 142 and 144 should be listed individually.

Description	Total
<b>ACCOUNTS &amp; NOTES RECEIVABLE:</b>	
Customer Accounts Receivable (Acct. 141) .....	\$ 5,328,898
Other Accounts Receivable (Acct. 142)	
Assessments .....	\$ 82,711
Other .....	127,204
	209,915
Notes Receivable (Acct. 144)	
Total Accounts and Notes Receivable.....	\$ 5,538,813
<b>Accumulated Provision for Uncollectable Accounts (Acct. 143)</b>	
Balance first of year .....	\$ -
Add: Provision for uncollectables for	
current year.....	\$
Collections fo accounts previously	
written off.....	
Utility accounts.....	
Others.....	
Total Additions.....	\$
Deduct accounts written off during year:	
Utility Accounts.....	\$
Other.....	
Total accounts written off.....	\$
Balance end of year.....	\$ -
Total Accounts and Notes Receivable	\$ 5,538,813

**Materials and Supplies (151 - 153)**

Account Name	Total
Plant Materials and Supplies (Account 151)	\$ 1,268,952
Merchandise (Account 152)	
Other Materials and Supplies (Account 153)	
<b>Total Materials &amp; Supplies</b>	<b>\$ 1,268,952</b>

**Prepayments (Acct. 162)**

Description	Total
Prepaid Insurance	\$ 76,416
Prepaid Rents	
Prepaid Interest	
Prepaid Taxes	
Other Prepayments (Specify) Prepaid Antenna Rent Sprint Expenses/Services	(11,400)
	\$ 833,268
	-
<b>Total Prepayments</b>	<b>\$ 898,284</b>

**Miscellaneous Deferred Debits (Acct. 186)**

2008 Description	Total
Miscellaneous Deferred Debits (Acct. 186):	
Deferred PSC Assessment	31,330
Deferred Rate Case Expense 2004-2005	85,830
Deferred Rate Case Expense 2007	73,828
Other Deferred Debits	6,031,358
<b>Total Miscellaneous Deferred Debits</b>	<b>\$ 6,222,346</b>

**Unamortized Debt Discount & Expense & Premium on Debt (Accts. 181 & 251)**

Report the net discount & expense or premium separately for each security issue.

Description	Amount Written Off During Year	Year-End Balance
Unamortized Debt Discount & Expense (Acct. 181)		
Bond Issue Cost 1997	\$ 4,916	\$ 68,001
Bond Discount 1997	6,735	93,168
Bond Discount 1998	7,570	150,770
Bond Issue Costs 1998	3,147	62,693
Cost of Issue 2001 Bond	3,699	65,984
Discount 2001 Bond	13,038	232,520
Cost of Issue 2002 A	13,731	248,302
Bond Discount 2002 A	27,209	492,030
Cost of Issue 2002 B	9,300	83,314
Cost of Issue 2003 A	1,620	35,930
Bond Discount 2003 A	1,087	25,103
Cost of Issue 2003 B	11,760	227,390
Bond Discount 2003 B	8,520	165,433
Cost of Issue 2003 C	14,940	173,013
Discount 2003 C	7,404	82,085
Cost of issue 2004A Bonds	3,252	67,700
Discount 2004A Bond	7,920	164,902
Bond Discount 2006	6,994	159,119
Cost of Issue Bond 2006	8,640	196,560
Discount 2007 BAN	1,222	407
Cost of Issue BAN 2007	30,490	10,163
<b>Total Unamortized Debt Discount &amp; Expense</b>	<b>\$ 193,194</b>	<b>\$ 2,804,587</b>
Unamortized Premium on Debt (Acct. 251):		
Premium on 2002 B Bond	4,928	44,165
<b>Total Unamortized Premium on Debt</b>	<b>\$ 4,928</b>	<b>\$ 44,165</b>

**EXTRAORDINARY PROPERTY LOSSES (ACCT. 182)**

Report each item separately.

Description	Total
Extraordinary Property Losses (Acct. 182) :	
_____ N/A	\$ _____
_____	\$ _____
_____	\$ _____
_____	\$ _____
Total Extraordinary Property Losses .....	\$ _____

**ADVANCES FOR CONSTRUCTION (ACCT. 252)**

DESCRIPTION	TOTAL
_____ N/A	
Balance first of year.....	\$ _____
Add credits during year.....	\$ _____
Deduct charges during year.....	\$ _____
Balance end of year.....	\$ _____



Account 221, BONDS

Line No.	Par Value of Actual Issue 1	Cash Realized on Actual Issue 2	Par Value of Amount Held by or for Respondent 3	Actually Outstanding at Close of year 4	Interest During Year	
					Accrued 5	Actually Paid 6
1	11,225,000	11,131,694		3,760,000	182,123	199,738
2	11,355,000	11,141,619		9,005,000	438,245	443,786
3	2,287,000	2,287,000		2,115,000	106,207	106,443
4	16,325,000	15,835,250		14,750,000	707,567	710,400
5	45,485,000	44,121,624		43,270,000	2,117,778	2,125,465
6	10,575,000	10,525,204		7,360,000	293,105	302,219
7	1,615,000	1,583,553		1,440,000	62,622	63,000
8	30,270,000	30,068,115		25,965,000	979,492	986,950
9	23,790,000	23,532,357		17,570,000	657,105	669,969
10	10,455,000	10,195,116		9,335,000	384,762	387,632
11	29,000,000	28,736,444		27,980,000	1,161,488	1,173,488
Total	192,382,000	189,157,976	-	162,550,000	7,090,494	7,169,090

Schedule of Bond Maturities

Line No.	Bond Numbers 7	Maturity Date 8	Interest Rate 9	Principal Amount 10	Amount Paid 11	Remaining Bonds Outstanding 12
1						
2	<b>See Attachments 23.1 Through 23.11</b>					
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						

**Northern Kentucky Water Service District**  
**Bond Issue: 11,225,000 , Dated September 1, 1997**

**Attachment 23.1**

<b>Bond Number</b>	<b>Maturity Date</b>	<b>Interest Rate</b>	<b>Principle Amount</b>	<b>Amounts Paid</b>	<b>Outstanding</b>
Registered	1998	4.700%	210,000.00	210,000.00	
Registered	1999	4.700%	580,000.00	580,000.00	
Registered	2000	4.700%	610,000.00	610,000.00	
Registered	2001	4.700%	640,000.00	640,000.00	
Registered	2002	4.700%	670,000.00	670,000.00	
Registered	2003	4.700%	700,000.00	700,000.00	
Registered	2004	4.700%	735,000.00	735,000.00	
Registered	2005	4.700%	770,000.00	770,000.00	
Registered	2006	4.700%	810,000.00	810,000.00	
Registered	2007	4.700%	850,000.00	850,000.00	
Registered	2008	4.750%	890,000.00	890,000.00	
Registered	2009	4.750%	930,000.00		930,000.00
Registered	2010	4.750%	975,000.00		975,000.00
Registered	2011	4.750%	1,025,000.00		1,025,000.00
Registered	2012	4.750%	60,000.00		60,000.00
Registered	2013	4.750%	60,000.00		60,000.00
Registered	2014	4.750%	65,000.00		65,000.00
Registered	2015	4.750%	70,000.00		70,000.00
Registered	2016	4.750%	70,000.00		70,000.00
Registered	2017	4.750%	75,000.00		75,000.00
Registered	2018	4.750%	80,000.00		80,000.00
Registered	2019	4.750%	80,000.00		80,000.00
Registered	2020	4.750%	85,000.00		85,000.00
Registered	2021	4.750%	90,000.00		90,000.00
Registered	2022	4.750%	95,000.00		95,000.00
<b>TOTALS</b>			<b>11,225,000.00</b>	<b>7,465,000.00</b>	<b>3,760,000.00</b>

Northern Kentucky Water Service District  
 Bond Issue: 11,355,000 , Dated December 1, 1998

Bond Number	Maturity Date	Interest Rate	Principle Amount	Amounts Paid	Outstanding
Registered	02/01/1999	4.700%	250,000.00	250,000.00	
Registered	02/01/2000	4.700%	200,000.00	200,000.00	
Registered	02/01/2001	4.700%	200,000.00	200,000.00	
Registered	02/01/2002	4.700%	210,000.00	210,000.00	
Registered	02/01/2003	4.700%	220,000.00	220,000.00	
Registered	02/01/2004	4.700%	230,000.00	230,000.00	
Registered	02/01/2005	4.700%	240,000.00	240,000.00	
Registered	02/01/2006	4.700%	255,000.00	255,000.00	
Registered	02/01/2007	4.700%	265,000.00	265,000.00	
Registered	02/01/2008	4.750%	280,000.00	280,000.00	
Registered	02/01/2009	4.750%	280,000.00		280,000.00
Registered	02/01/2010	4.750%	295,000.00		295,000.00
Registered	02/01/2011	4.750%	310,000.00		310,000.00
Registered	02/01/2012	4.750%	325,000.00		325,000.00
Registered	02/01/2013	4.800%	340,000.00		340,000.00
Registered	02/01/2014	4.850%	360,000.00		360,000.00
Registered	02/01/2015	4.875%	375,000.00		375,000.00
Registered	02/01/2016	4.875%	395,000.00		395,000.00
Registered	02/01/2017	4.875%	415,000.00		415,000.00
Registered	02/01/2018	4.875%	435,000.00		435,000.00
Registered	02/01/2019	4.875%	455,000.00		455,000.00
Registered	02/01/2020	4.875%	480,000.00		480,000.00
Registered	02/01/2021	4.875%	505,000.00		505,000.00
Registered	02/01/2022	4.875%	530,000.00		530,000.00
Registered	02/01/2023	4.875%	555,000.00		555,000.00
Registered	02/01/2024	4.875%	585,000.00		585,000.00
Registered	02/01/2025	4.875%	610,000.00		610,000.00
Registered	02/01/2026	4.875%	645,000.00		645,000.00
Registered	02/01/2027	4.875%	675,000.00		675,000.00
Registered	02/01/2028	4.875%	435,000.00		435,000.00
<b>TOTALS</b>			<b>11,355,000.00</b>	<b>2,350,000.00</b>	<b>9,005,000.00</b>

**Northern Kentucky Water Service District  
FmHA Load \$2,287,000 - 2000**

**Attachment 23.3**

<b>Year</b>	<b>Maturity Date</b>	<b>Interest Rate</b>	<b>Principle Amount</b>	<b>Amounts Paid</b>	<b>Outstanding</b>
2000			0.00	0.00	0.00
2001			0.00	0.00	0.00
2002			21,000.00	21,000.00	0.00
2003			22,000.00	22,000.00	0.00
2004			24,000.00	24,000.00	0.00
2005			24,000.00	24,000.00	0.00
2006			26,000.00	26,000.00	0.00
2007			27,000.00	27,000.00	0.00
2008			28,000.00	28,000.00	0.00
2009			30,000.00		30,000.00
2010			31,000.00		31,000.00
2011			33,000.00		33,000.00
2012			34,000.00		34,000.00
2013			36,000.00		36,000.00
2014			38,000.00		38,000.00
2015			40,000.00		40,000.00
2016			42,000.00		42,000.00
2017			44,000.00		44,000.00
2018			46,000.00		46,000.00
2019			49,000.00		49,000.00
2020			51,000.00		51,000.00
2021			54,000.00		54,000.00
2022			56,000.00		56,000.00
2023			59,000.00		59,000.00
2024			62,000.00		62,000.00
2025			65,000.00		65,000.00
2026			68,000.00		68,000.00
2027			72,000.00		72,000.00
2028			75,000.00		75,000.00
2029			79,000.00		79,000.00
2030			83,000.00		83,000.00
2031			87,000.00		87,000.00
2032			92,000.00		92,000.00
2033			96,000.00		96,000.00
2034			102,000.00		102,000.00
2035			107,000.00		107,000.00
2036			112,000.00		112,000.00
2037			118,000.00		118,000.00
2038			124,000.00		124,000.00
2039			130,000.00		130,000.00
<b>Totals</b>			<b>2,287,000.00</b>	<b>172,000.00</b>	<b>2,115,000.00</b>

Northern Kentucky Water Service District					Attachment 23.4
Bond Issue \$16,325,000.00 Dated 10-23-2001					
Bond Number	Maturity Date	Interest Rate	Principle Amount	Amounts Paid	Outstanding
Registered	2/1/2002	2.700%	285,000.00	285,000.00	
Registered	2/1/2003	3.000%	235,000.00	235,000.00	
Registered	2/1/2004	3.250%	240,000.00	240,000.00	
Registered	2/1/2005	3.450%	230,000.00	230,000.00	
Registered	2/1/2006	3.600%	215,000.00	215,000.00	
Registered	2/1/2007	3.750%	200,000.00	200,000.00	
Registered	2/1/2008	3.900%	170,000.00	170,000.00	
Registered	2/1/2009	4.000%	155,000.00		155,000.00
Registered	2/1/2010	4.100%	75,000.00		75,000.00
Registered	2/1/2011	4.200%	80,000.00		80,000.00
Registered	2/1/2012	4.350%	80,000.00		80,000.00
Registered	2/1/2013	4.450%	735,000.00		735,000.00
Registered	2/1/2014	4.550%	770,000.00		770,000.00
Registered	2/1/2015	4.670%	810,000.00		810,000.00
Registered	2/1/2016	4.750%	845,000.00		845,000.00
Registered	2/1/2017	4.820%	890,000.00		890,000.00
Registered	2/1/2018	4.850%	930,000.00		930,000.00
Registered	2/1/2019	4.900%	980,000.00		980,000.00
Registered	2/1/2020	4.950%	1,030,000.00		1,030,000.00
Registered	2/1/2021	5.000%	1,080,000.00		1,080,000.00
Registered	2/1/2022	5.000%	1,135,000.00		1,135,000.00
Registered	2/1/2023	5.000%	1,190,000.00		1,190,000.00
Registered	2/1/2024	5.100%	1,255,000.00		1,255,000.00
Registered	2/1/2025	5.100%	1,320,000.00		1,320,000.00
Registered	2/1/2026	5.100%	1,390,000.00		1,390,000.00
<b>TOTALS</b>			<b>16,325,000.00</b>	<b>1,575,000.00</b>	<b>14,750,000.00</b>

**Northern Kentucky Water Service District** **Attachment 23.5**  
**Bond Issue \$45,485,000.00 Dated 2/1/2002**

Bond Number	Maturity Date	Interest Rate	Principle Amount	Amounts Paid	Outstanding
Registered	2/1/2003				
Registered	2/1/2003	4.50%	350,000.00	350,000.00	0.00
Registered	2/1/2004	4.50%	345,000.00	345,000.00	0.00
Registered	2/1/2005	4.50%	360,000.00	360,000.00	0.00
Registered	2/1/2006	4.50%	370,000.00	370,000.00	0.00
Registered	2/1/2007	4.50%	380,000.00	380,000.00	0.00
Registered	2/1/2008	4.50%	410,000.00	410,000.00	0.00
Registered	2/1/2009	4.50%	365,000.00		365,000.00
Registered	2/1/2010	4.50%	465,000.00		465,000.00
Registered	2/1/2111	4.50%	485,000.00		485,000.00
Registered	2/1/2012	4.50%	1,530,000.00		1,530,000.00
Registered	2/1/2013	4.50%	950,000.00		950,000.00
Registered	2/1/2114	4.50%	990,000.00		990,000.00
Registered	2/1/2115	4.65%	1,035,000.00		1,035,000.00
Registered	2/1/2116	4.75%	1,100,000.00		1,100,000.00
Registered	2/1/2117	4.75%	1,625,000.00		1,625,000.00
Registered	2/1/2118	4.75%	2,520,000.00		2,520,000.00
Registered	2/1/2119	4.75%	2,640,000.00		2,640,000.00
Registered	2/1/2020	5.00%	3,080,000.00		3,080,000.00
Registered	2/1/2021	5.00%	3,240,000.00		3,240,000.00
Registered	2/1/2022	5.00%	3,405,000.00		3,405,000.00
Registered	2/1/2023	5.00%	3,580,000.00		3,580,000.00
Registered	2/1/2024	5.00%	3,765,000.00		3,765,000.00
Registered	2/1/2025	5.00%	3,960,000.00		3,960,000.00
Registered	2/1/2026	5.00%	4,160,000.00		4,160,000.00
Registered	2/1/2027	5.00%	4,375,000.00		4,375,000.00
<b>TOTALS</b>			<b>45,485,000.00</b>	<b>2,215,000.00</b>	<b>43,270,000.00</b>

Northern Kentucky Water Service District  
 Bond Issue \$10,575,000.00 Dated 12/5/2002

Attachment 23.6

Bond Number	Maturity Date	Interest Rate	Principle Amount	Amounts Paid	Outstanding
Registered	12/5/2002				
Registered	2/1/2003	3.00%	535,000.00	535,000.00	0.00
Registered	2/1/2004	3.00%	455,000.00	455,000.00	0.00
Registered	2/1/2005	3.00%	490,000.00	490,000.00	0.00
Registered	2/1/2006	3.00%	530,000.00	530,000.00	0.00
Registered	2/1/2007	3.50%	580,000.00	580,000.00	0.00
Registered	2/1/2008	3.50%	625,000.00	625,000.00	0.00
Registered	2/1/2009	3.50%	745,000.00		745,000.00
Registered	2/1/2010	3.75%	775,000.00		775,000.00
Registered	2/1/2111	4.00%	805,000.00		805,000.00
Registered	2/1/2012	4.00%	835,000.00		835,000.00
Registered	2/1/2013	4.00%	870,000.00		870,000.00
Registered	2/1/2114	4.00%	900,000.00		900,000.00
Registered	2/1/2115	4.00%	930,000.00		930,000.00
Registered	2/1/2116	4.00%	965,000.00		965,000.00
Registered	2/1/2117	4.00%	535,000.00		535,000.00
<b>TOTALS</b>			<b>10,575,000.00</b>	<b>3,215,000.00</b>	<b>7,360,000.00</b>

**Northern Kentucky Water Service District** **Attachment 23.7**  
**Bond Issue : \$1,615,000.00 Dated 3/13/2003**

<b>Bond Number</b>	<b>Maturity Date</b>	<b>Interest Rate</b>	<b>Principle Amount</b>	<b>Amounts Paid</b>	<b>Outstanding</b>
Registered	2/1/2004	1.20%	35,000.00	35,000.00	0.00
Registered	2/1/2005	1.38%	35,000.00	35,000.00	0.00
Registered	2/1/2006	1.75%	35,000.00	35,000.00	0.00
Registered	2/1/2007	2.20%	35,000.00	35,000.00	0.00
Registered	2/1/2008	2.60%	35,000.00	35,000.00	0.00
Registered	2/1/2009	3.00%	40,000.00		40,000.00
Registered	2/1/2010	3.30%	40,000.00		40,000.00
Registered	2/1/2111	3.55%	40,000.00		40,000.00
Registered	2/1/2012	3.37%	40,000.00		40,000.00
Registered	2/1/2013	3.85%	45,000.00		45,000.00
Registered	2/1/2114	3.95%	45,000.00		45,000.00
Registered	2/1/2115	4.05%	45,000.00		45,000.00
Registered	2/1/2116	4.15%	50,000.00		50,000.00
Registered	2/1/2117	4.25%	50,000.00		50,000.00
Registered	2/1/2118	4.50%	55,000.00		55,000.00
Registered	2/1/2119	4.50%	55,000.00		55,000.00
Registered	2/1/2020	4.50%	60,000.00		60,000.00
Registered	2/1/2121	4.50%	60,000.00		60,000.00
Registered	2/1/2022	4.50%	65,000.00		65,000.00
Registered	2/1/2023	4.55%	65,000.00		65,000.00
Registered	2/1/2024	4.55%	70,000.00		70,000.00
Registered	2/1/2025	4.55%	75,000.00		75,000.00
Registered	2/1/2026	4.55%	75,000.00		75,000.00
Registered	2/1/2027	4.55%	80,000.00		80,000.00
Registered	2/1/2028	4.60%	85,000.00		85,000.00
Registered	2/1/2029	4.60%	85,000.00		85,000.00
Registered	2/1/2030	4.60%	90,000.00		90,000.00
Registered	2/1/2031	4.60%	95,000.00		95,000.00
Registered	2/1/2032	4.60%	30,000.00		30,000.00
<b>TOTALS</b>			<b>1,615,000.00</b>	<b>175,000.00</b>	<b>1,440,000.00</b>

**Northern Kentucky Water Service District**  
**Bond Issue : \$30,270,000.00 Dated 8/1/2003**

**Attachment 23.8**

<b>Bond Number</b>	<b>Maturity Date</b>	<b>Interest Rate</b>	<b>Principle Amount</b>	<b>Amounts Paid</b>	<b>Outstanding</b>
Registered	2/1/2004	2.00%	825,000.00	825,000.00	0.00
Registered	2/1/2005	2.00%	845,000.00	845,000.00	0.00
Registered	2/1/2006	2.00%	860,000.00	860,000.00	0.00
Registered	2/1/2007	2.00%	880,000.00	880,000.00	0.00
Registered	2/1/2008	2.25%	895,000.00	895,000.00	0.00
Registered	2/1/2009	2.75%	915,000.00		915,000.00
Registered	2/1/2010	3.00%	940,000.00		940,000.00
Registered	2/1/2111	3.13%	965,000.00		965,000.00
Registered	2/1/2012	3.13%	995,000.00		995,000.00
Registered	2/1/2013	3.13%	1,030,000.00		1,030,000.00
Registered	2/1/2114	3.25%	1,060,000.00		1,060,000.00
Registered	2/1/2115	3.50%	1,095,000.00		1,095,000.00
Registered	2/1/2116	4.00%	1,135,000.00		1,135,000.00
Registered	2/1/2117	4.00%	1,175,000.00		1,175,000.00
Registered	2/1/2118	4.00%	1,225,000.00		1,225,000.00
Registered	2/1/2119	4.13%	1,275,000.00		1,275,000.00
Registered	2/1/2020	4.13%	1,325,000.00		1,325,000.00
Registered	2/1/2121	4.13%	1,380,000.00		1,380,000.00
Registered	2/1/2022	4.13%	1,440,000.00		1,440,000.00
Registered	2/1/2023	4.13%	1,500,000.00		1,500,000.00
Registered	2/1/2024	4.13%	1,565,000.00		1,565,000.00
Registered	2/1/2025	4.13%	1,630,000.00		1,630,000.00
Registered	2/1/2026	4.13%	1,700,000.00		1,700,000.00
Registered	2/1/2027	4.13%	1,770,000.00		1,770,000.00
Registered	2/1/2028	4.13%	1,845,000.00		1,845,000.00
<b>TOTALS</b>			<b>30,270,000.00</b>	<b>4,305,000.00</b>	<b>25,965,000.00</b>

**Northern Kentucky Water Service District** **Attachment 23.9**  
**Bond Issue : \$23,790,000.00 Dated 12/18/2003**

<b>Bond Number</b>	<b>Maturity Date</b>	<b>Interest Rate</b>	<b>Principle Amount</b>	<b>Amounts Paid</b>	<b>Outstanding</b>
Registered	2/1/2004	2.00%	1,430,000.00	1,430,000.00	0.00
Registered	2/1/2005	2.00%	1,160,000.00	1,160,000.00	0.00
Registered	2/1/2006	2.00%	1,180,000.00	1,180,000.00	0.00
Registered	2/1/2007	2.25%	1,215,000.00	1,215,000.00	0.00
Registered	2/1/2008	2.50%	1,235,000.00	1,235,000.00	0.00
Registered	2/1/2009	2.75%	1,270,000.00		1,270,000.00
Registered	2/1/2010	3.00%	1,305,000.00		1,305,000.00
Registered	2/1/2111	3.25%	1,350,000.00		1,350,000.00
Registered	2/1/2012	3.50%	1,395,000.00		1,395,000.00
Registered	2/1/2013	3.50%	1,445,000.00		1,445,000.00
Registered	2/1/2114	4.00%	1,505,000.00		1,505,000.00
Registered	2/1/2115	4.00%	1,565,000.00		1,565,000.00
Registered	2/1/2116	4.00%	1,625,000.00		1,625,000.00
Registered	2/1/2117	4.00%	1,690,000.00		1,690,000.00
Registered	2/1/2118	4.00%	1,595,000.00		1,595,000.00
Registered	2/1/2119	4.13%	1,665,000.00		1,665,000.00
Registered	2/1/2020	4.25%	1,160,000.00		1,160,000.00
<b>TOTALS</b>			<b>23,790,000.00</b>	<b>6,220,000.00</b>	<b>17,570,000.00</b>

Northern Kentucky Water Service District				Attachment 23.10	
Bond Issue	\$10,455,000.00	11/18/2024			
Bond Number	Maturity Date	Interest Rate	Principle Amount	Amounts Paid	Outstanding
Registered	2/1/2005	2.000%	270,000.00	270,000.00	0.00
Registered	2/1/2006	2.000%	275,000.00	275,000.00	0.00
Registered	2/1/2007	2.125%	285,000.00	285,000.00	0.00
Registered	2/1/2008	2.375%	290,000.00	290,000.00	0.00
Registered	2/1/2009	2.625%	295,000.00		295,000.00
Registered	2/1/2010	3.000%	305,000.00		305,000.00
Registered	2/1/2111	3.000%	315,000.00		315,000.00
Registered	2/1/2012	3.250%	325,000.00		325,000.00
Registered	2/1/2013	3.375%	335,000.00		335,000.00
Registered	2/1/2014	3.500%	345,000.00		345,000.00
Registered	2/1/2015	4.000%	360,000.00		360,000.00
Registered	2/1/2016	4.000%	375,000.00		375,000.00
Registered	2/1/2017	4.000%	390,000.00		390,000.00
Registered	2/1/2018	4.000%	405,000.00		405,000.00
Registered	2/1/2019	4.000%	425,000.00		425,000.00
Registered	2/1/2022	4.500%	1,385,000.00		1,385,000.00
Registered	2/1/2024	4.500%	1,035,000.00		1,035,000.00
Registered	2/1/2026	4.000%	1,135,000.00		1,135,000.00
Registered	2/1/2029	4.500%	1,905,000.00		1,905,000.00
<b>TOTALS</b>			<b>10,455,000.00</b>	<b>1,120,000.00</b>	<b>9,335,000.00</b>

Northern Kentucky Water Service District					Attachment 23.11
Bond Issue	9/1/2006	\$29,000,000.00			
Bond	Maturity	Interest	Principle	Amounts	Outstanding
Number	Date	Rate	Amount	Paid	
Registered	2/1/2007	4.000%	300,000.00	300,000.00	0.00
Registered	2/1/2008	4.000%	720,000.00	720,000.00	0.00
Registered	2/1/2009	4.000%	750,000.00		750,000.00
Registered	2/1/2010	4.000%	775,000.00		775,000.00
Registered	2/1/2111	4.000%	805,000.00		805,000.00
Registered	2/1/2012	4.000%	835,000.00		835,000.00
Registered	2/1/2013	4.000%	870,000.00		870,000.00
Registered	2/1/2114	4.000%	900,000.00		900,000.00
Registered	2/1/2115	4.000%	940,000.00		940,000.00
Registered	2/1/2116	4.000%	980,000.00		980,000.00
Registered	2/1/2117	4.000%	1,020,000.00		1,020,000.00
Registered	2/1/2118	4.000%	970,000.00		970,000.00
Registered	2/1/2119	4.000%	1,010,000.00		1,010,000.00
Registered	2/1/2020	4.125%	1,320,000.00		1,320,000.00
Registered	2/1/2021	4.125%	1,205,000.00		1,205,000.00
Registered	2/1/2022	4.125%	1,255,000.00		1,255,000.00
Registered	2/1/2023	4.125%	1,420,000.00		1,420,000.00
Registered	2/1/2024	4.125%	1,375,000.00		1,375,000.00
Registered	2/1/2025	4.125%	1,440,000.00		1,440,000.00
Registered	2/1/2027	4.250%	3,075,000.00		3,075,000.00
Registered	2/1/2029	4.250%	3,360,000.00		3,360,000.00
Registered	2/1/2031	4.273%	3,675,000.00		3,675,000.00
<b>TOTALS</b>			<b>29,000,000.00</b>	<b>1,020,000.00</b>	<b>27,980,000.00</b>

Northern Kentucky Water Service District				Attachment 23.12	
Bond Issue	01/06/09	\$29,200,000.00			
Bond Number	Maturity Date	Interest Rate	Principle Amount	Amounts Paid	Outstanding
Registered	2/1/2009	3.750%	1,000,000.00		1,000,000.00
Registered	2/1/2010	3.750%	645,000.00		645,000.00
Registered	2/1/2111	3.750%	670,000.00		670,000.00
Registered	2/1/2012	3.750%	695,000.00		695,000.00
Registered	2/1/2013	3.750%	720,000.00		720,000.00
Registered	2/1/2114	4.000%	750,000.00		750,000.00
Registered	2/1/2115	4.125%	780,000.00		780,000.00
Registered	2/1/2116	4.250%	815,000.00		815,000.00
Registered	2/1/2117	4.750%	850,000.00		850,000.00
Registered	2/1/2118	5.000%	895,000.00		895,000.00
Registered	2/1/2119	5.000%	940,000.00		940,000.00
Registered	2/1/2020	5.125%	990,000.00		990,000.00
Registered	2/1/2021	5.250%	1,040,000.00		1,040,000.00
Registered	2/1/2022	5.375%	1,100,000.00		1,100,000.00
Registered	2/1/2023	5.500%	1,160,000.00		1,160,000.00
Registered	2/1/2024	5.700%	1,225,000.00		1,225,000.00
Registered	2/1/2025	5.775%	1,300,000.00		1,300,000.00
Registered	2/1/2027	5.750%	1,375,000.00		1,375,000.00
Registered	2/1/2029	6.000%	1,460,000.00		1,460,000.00
Registered	2/1/2031	6.000%	1,550,000.00		1,550,000.00
Registered	2/1/2029	6.000%	1,645,000.00		1,645,000.00
Registered	2/1/2030	6.000%	1,745,000.00		1,745,000.00
Registered	2/1/2031	6.000%	1,855,000.00		1,855,000.00
Registered	2/1/2032	6.500%	1,975,000.00		1,975,000.00
Registered	2/1/2033	6.500%	2,110,000.00		2,110,000.00
<b>TOTALS</b>			<b>29,290,000.00</b>	<b>0.00</b>	<b>29,290,000.00</b>

**Notes Payable (Acct. 232 & 234)**

2008 a	Nominal Date of Issue b	Date of Maturity c	INTEREST		Principal Amount per Balance Sheet f
			Rate d	Amount of payment e	
<b>Account 232 - Note Payable</b>					
Campbell Co. Fiscal Court			0.00%	\$ _____	\$ 100,000
BAN 2007			3.70%	1,012,740	27,165,000
<b>Total Account 232</b>				\$ _____	\$ 27,265,000
<b>Account 234 - Notes Payable To Associated Companies</b>					
		N/A		\$ _____	\$ _____
				_____	_____
				_____	_____
<b>Total Account 234</b>				\$ _____	\$ _____

**Accounts Payable to Associated Companies (Acct. 233)**

Show Payable to Each Associated Company Separately	Amount
	\$ _____
N/A	_____
	_____
	_____
	_____
	_____
<b>Total</b>	\$ _____

**TAXES ACCRUED (ACCOUNT 236)**

ACCT. NO. (a)	2008 DESCRIPTION (b)	TOTAL ©
	Balance first of year.....	\$ -
	Accruals Charged:	
408.1	Utility regulatory assessment fees.....	
408.11	Property taxes.....	
408.12	Payroll taxes.....	600,378
408.13	Other taxes and licenses.....	
408.2	Taxes other than income, other income and deductions	
	Total taxes accrued.....	\$ 600,378
	Taxes paid during year:	
408.1	Utility regulatory assessment fees.....	
408.11	Property taxes.....	
408.12	Payroll taxes.....	600,378
408.13	Other taxes and licenses.....	
408.2	Taxes other than income, other income and deductions	
	Total taxes paid.....	\$ 600,378
	Balance end of year.....	\$ -

**ACCRUED INTEREST (ACCOUNT 237)**

DESC. DEBT (a)	BALANCE BEGINNING OF YEAR (b)	INTEREST ACCRUED DURING YEAR (c)	INTEREST PAID DURING YEAR (d)	BALANCE END OF YEAR (e)
Acct. No. 237.1 - Accrued Interest on Long-term Debt				
Series 1997	92,031	182,123	199,738	74,416
Series 1998	187,682	438,245	443,786	182,141
2000 RUS Loan	18,083	106,207	106,443	17,847
Series 2001	297,417	707,567	710,400	294,584
Series 2002 A	889,454	2,117,778	2,125,465	881,767
Series 2002 B	130,482	293,105	302,219	121,368
Series 2003 A	26,439	62,622	63,001	26,060
Series 2003 B	414,959	979,492	986,950	407,500
Series 2003 C	285,586	657,405	669,969	273,021
Series 2004 A	162,948	384,762	387,632	160,078
Series 2006	494,953	1,161,488	1,173,488	482,953
Total Acct No. 237.1	\$ 3,000,033	\$ 7,090,792	\$ 7,169,090	\$ 2,921,735
Acct. No. 237.2 - Accrued Interest on Other Liabilities:				
2007 BAN # 1	\$ 251,276	1,013,937	1,005,105	\$ 260,108
Total Acct No. 237.2	\$ 251,276	\$ 1,013,937	\$ 1,005,105	\$ 260,108
Total Acct No 237	\$ 3,251,309	\$ 8,104,729	\$ 8,174,196	\$ 3,181,843

Gross interest expense	8,241,387
Less Surcharges	(603,337)
Less Capitalized Interest	(727,041)
Interest Expense	<u>6,911,009</u>

**Miscellaneous Current & Accrued Liabilities (Account 242)**

2008 Description (a)	Balance End of Year (b)
Accrued Payroll Taxes & Misc	\$ 58,725
Accrued Payroll	119,091
Accrued Sales Taxes	97,166
Accrued Pension	42,799
Accrued Vacation/Sick	845,878
Subdistrict Surcharges Payable	640,126
Total Miscellaneous Current & Accrued Liabilities.....	\$ 1,803,786

**Regulatory Commission Expense (Accounts 666 and 667)**

2006 DESCRIPTION OF CASE (DOCKET #) (a)	TOTAL INCURRED DURING YEAR (b)	AMOUNT TRANSFERRED TO ACCOUNT # 186.1 (c)	EXPENSED DURING YEAR	
			ACCT. (d)	AMOUNT (e)
Rate Case 2005-0148	\$ -	\$ -	667	\$ 85,704
Rate Case 2007			667	\$ 36,914
	\$ -	\$ -	667	\$ -

**WATER OPERATING REVENUE**

Acct No. (a)	2008 Description (b)	Beginning Year No. Customer (c)	Year End Number Customers (d)	Amounts (e)
	Operating Revenues:			
460	Unmeter Water Revenue.....			\$
461	Meter Water Revenue:			\$
461.1	Sales to Residential Customers .....	73,361	73,666	\$ 24,351,516
461.2	Sales to Commercial Customers .....	4,392	4,336	\$ 6,336,052
461.3	Sales to Industrial Customers .....	111	114	\$ 3,257,666
461.4	Sales to Public Authorities .....	482	486	\$ 2,085,366
461.5	Sales to Multiple Family Dwellings .....	1,587	1,608	\$ 3,190,713
461.6	Sales through Bulk Loading Stations .....			\$ 37,910
	Total Metered Sales .....	79,933	80,210	\$ 39,259,223
462	Fire Protection Revenue:			\$
462.1	Public Fire Protection			\$
462.2	Private Fire Protection	450	450	\$ 31,987
	Total Fire Protection Revenue .....	450	450	\$ 31,987
464	Other Sales to Public Authorities			\$
465	Sales to .....			\$
466	Sales for Resale .....	3	4	\$ 1,118,527
467	Interdepartmental Sale .....			\$
	Total Sales of Water .....	80,386	80,664	\$ 40,409,737
	Other Water Revenues:			
469	Guaranteed Revenues .....			\$
470	Forfeited Discounts .....			\$ 906,636
471	Miscellaneous Service Revenues .....			\$
472	Rents from Water Property .....			\$ 493,590
473	Interdepartmental Rents .....			\$
474	Other Water Revenues .....			\$ 380,160
	Total Other Water Revenues .....			\$ 1,780,386
	Total Water Operating Revenues .....			\$ 42,190,123

**WATER UTILITY EXPENSE ACCOUNTS**

2008		WATER EXPENSE ACCOUNT MATRIX								
Acct No (a)	Account Name (b)	Current Year (c)	.1 Source of Supply & Pumping Expense-Operation (d)	.2 Source of Supply & Pumping Expense-Maintenance. (e)	.3 Water Treatment Expense-Operation (f)	.4 Water Treatment Expense-Maintenance. (g)	.5 Trans & Distribution. Expense-Operation (h)	.6 Trans & Distribution. Expense-Maintenance. (i)	.7 Customer Accounts Expense (j)	.8 Adminis-Trative & General Expenses (k)
601	Salaries & Wage - Employees	\$8,489,680.00			\$1,612,521.00	\$744,944.00	\$954,562.00	\$2,291,142.00	\$1,735,730.00	\$1,150,781.00
603	Salaries & Wage - Officers	\$0.00								
604	Employee Pensions & Benefits	\$3,431,364.00			\$742,609.00	\$93,901.00	\$717,501.00	\$689,460.00	\$665,089.00	\$522,804.00
610	Purchased Water									
615	Purchased Power	\$2,437,335.00	\$787,555.00		\$186,936.00		\$1,284,141.00			\$178,703.00
616	Fuel for Power Production	\$160,113.00			\$152,519.00		\$7,594.00			
618	Chemicals	\$1,642,807.00			\$1,642,807.00					
620	Materials & Supplies	\$1,943,629.00			\$185,324.00	\$214,690.00	\$146,985.00	\$921,521.00	\$268,542.00	\$206,567.00
631	Contractual Services - Accounting	\$18,820.00								\$18,820.00
633	Contractual Services - Engineering	\$144,225.00			\$3,696.00		\$41,862.00	\$998.00	\$10,881.00	\$86,788.00
634	Contractual Services - Mgt. Fees	\$84,154.00								\$84,154.00
635	Contractual Services - Water Testing	\$2,980,197.00	\$2,662.00	\$31,824.00	\$489,501.00	\$360,858.00	\$32,975.00	\$949,952.00	\$262,757.00	\$849,668.00
636	Contractual Services - Other	\$0.00								
641	Rental of Bldg./Real Property	\$0.00								
642	Rental of Equipment	\$750.00								\$750.00
650	Transportation Expenses	\$584,310.00			\$74,846.00		\$55,554.00	\$324,289.00	\$119,474.00	\$10,147.00
656	Insurance - Vehicles	\$66,417.00			\$10,962.00		\$36,755.00		\$15,476.00	\$3,224.00
657	Insurance - General Liability	\$338,411.00			\$108,259.00		\$179,406.00		\$33,831.00	\$16,915.00
658	Insurance - Workers Compensation	\$109,262.00			\$28,607.00		\$44,655.00		\$25,816.00	\$10,184.00
659	Insurance - Other	\$109,533.00			\$66,909.00					\$42,624.00
660	Advertising Expenses	\$18,417.00								\$18,417.00
666	Regulatory Commission Expense - Amortization of Rate Case Expenses	\$0.00								
667	Regulatory Commission Expense - Other	\$183,052.00								\$183,052.00
668	Water Resource Conservation	\$0.00								
670	Bad Debt Expense	\$602,772.00							\$602,772.00	
675	Miscellaneous Expenses	\$87,512.00			\$7,133.00		\$7,354.00	\$7,883.00	\$12,404.00	\$52,738.00
699	Taxes	\$0.00			\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
	<b>Total Water Utility Expenses</b>	<b>\$23,432,760.00</b>	<b>\$790,217.00</b>	<b>\$31,824.00</b>	<b>\$5,312,629.00</b>	<b>\$1,414,393.00</b>	<b>\$3,509,344.00</b>	<b>\$5,185,245.00</b>	<b>\$3,752,772.00</b>	<b>\$3,436,336.00</b>

**Pumping and Purchased Water Statistics**

2008	Water Purchased for Resale (Omit 000's)	Water Pumped From Plants (Omit 000's)	Total Water Pumped and Purchased (Omit 000's)	Water Sold to Customers (Omit 000's)
a	b	c	d	e
			-	
January		821,910.0	821,910.0	540,696.5
February		750,664.0	750,664.0	520,232.7
March		789,415.0	789,415.0	893,704.2
April		797,842.0	797,842.0	472,499.8
May		841,826.0	841,826.0	743,434.6
June		949,307.0	949,307.0	628,736.5
July		1,041,792.0	1,041,792.0	631,322.7
August		1,111,851.0	1,111,851.0	607,966.7
September		987,102.0	987,102.0	1,174,240.8
October		907,511.0	907,511.0	773,277.5
November		795,802.0	795,802.0	616,157.4
December		829,275.0	829,275.0	1,009,816.9
<b>Total for year</b>		10,624,297.0	10,624,297.0	8,612,086.3
Maximum gallons pumped by all methods in any one day: 8/4/2008				42,000.0
Minimum gallons pumped by all methods in any one day (Omit 000's): 1/1/2008				23,000.0
If water is purchased for resale, indicate the following: Vendor: _____ Point of delivery: _____				
If water is sold to other water utilities for redistribution, list names of such utilities below:				
			Maximum Daily	Maximum Monthly
Pendleton County Water District @ KY17	000's		576	17,280
Pendleton County Water District @ US27	000's		432	12,960
City of Walton	000's		1,500	45,000
Bullock Pen Water District	000's		600	18,000

## Sales for Resale (466)

2008

Line	Company	Gallons(000's)	Avg. Rate (Cents)	Amount
1	Pendleton County Water Dist.	95,373.9	2.97/1,000gals	\$275,853.83
2	City of Walton	147,761.4	2.97/1,000gals	\$431,980.52
3	Bullock Pen Water District	142,398.4	2.97/1,000gals	\$410,692.50
4				
5				
6				
7				
8				
<b>Total</b>		<b>385,533.7</b>		<b>\$1,118,526.85</b>

## WATER STATISTICS

Line	Item	Gallons (000's)
1	<b>WATER PRODUCED, PURCHASED, &amp; DISTRIBUTED</b>	
2	Water Produced	10,624,297.0
3	Water Purchased	
4	<b>TOTAL PRODUCED AND PURCHASED</b>	<b>10,624,297.0</b>
5		
6	<b>WATER SALES:</b>	
7	Residential	4,407,566.7
8	Commercial	1,512,822.9
9	Industrial	926,923.0
10	Irrigation	
11	Resale	385,533.7
12	Other Sales	1,379,240
13	<b>TOTAL WATER SALES</b>	<b>8,612,086.3</b>
14		
15	<b>OTHER WATER USED (estimate portions not metered)</b>	
16	Utility/water treatment plant	191,491.1
17	Wastewater plant	
18	System flushing	144,435.2
19	Water main breaks/leaks	260,338.0
20	Storage tank overflow	
21	Fire Department	4,033.3
22	Other (construction, flushing, disinfection, ect.)	8,893.3
23	<b>TOTAL OTHER WATER USED</b>	<b>609,190.9</b>
24		
25	<b>UNACCOUNTED-FOR WATER LOSS:</b>	
26	Line 4 - (Line 13 + Line 23)	<b>1,403,019.8</b>
27		
28	<b>UNACCOUNTED-FOR WATER LOSS PERCENTAGE</b>	
29	Line 26 divided by Line 4	13.21%

## PLANT STATISTICS

Give the following information:

- 1 Number of fire hydrants, by size.
- 2 Number of private fire hydrants, by size.
- 3 Whether water supply is river, impounded streams, well, springs, artificial lake or collector type well.
- 4 Whether supply is by gravity, pumping, or a combination .
- 5 Type, capacity, and elevation of reservoirs at overflow and ground level.
- 6 Miles of main by size and kind.
- 7 Types of filters: gravity or pressure, number of units, and total rated capacity in gallons per minute.
- 8 Type of chlorinators, number of units and capacity in pounds per 24 hours.
- 9 Station equipment. List each pump separately, giving type and capacity and H.P. of driving unit and character of driving unit (steam, electric, or internal combustion). State whether pump is high or low duty.
- 10 Quantity of fuel used: coal in pounds, gas in cu. ft., oil in gallons, and electric in KWH .
- 11 Give a description and total cost of any sizable additions or retirements to plant in service outside the normal system growth for the period covered by this report.
- 12 Capacity of clear well.
- 13 Peak month, in gallons of water sold.
- 14 Peak day, in gallons of water sold.

1) Kenton County 5,858; Campbell County 2,621.

2) 60.

3) Rivers: Ohio River and the Licking River.

4) Plants are pumped; Distribution is combination of pumped and gravity.

5) See attached 31A.

6) See attached 31B.

7) Fort Thomas Treatment Plant

12 - Gravity, each 560 sq. ft. - Rated at 5 gpm/ft<sup>2</sup>

Taylor Mill Treatment Plant

8 - Gravity, each 270 sq. ft. - Rated at 5 gpm/ft<sup>2</sup>

Memorial Parkway Treatment Plant

8 - Gravity, each 612 sq. ft.

Actiflo 24gpm/ft<sup>2</sup>

8) See attached 31C

9) See attached 31D

10) N/A

11) None

PLANT STATISTICS Cont.

12) Fort Thomas Treatment Plant
1 - 3 million gallons
1 - 3 1/2 million gallons
Taylor Mill Treatment Plant
1 - 3 million gallons
Memorial Parkway Treatment Plant
1 - 1 million gallons
13) August 4, 2008 - 42,000,000gals
14) N/A

Water Storage Facilities  
 Northern Kentucky Water District  
 Updated: 12-31-2008

Storage Location	Address	City Location	Type Of Storage	Year In Service	Structure Height (Feet)	Base Elevation (Feet)	Top Elevation (Feet)	Overflow Elevation (Feet)	Normal Elevation (Feet)	Normal Elevation (Feet)	Diameter (Feet)	Capacity (Gallons)
Aqua Drive	100 Aqua Drive	Cold Spring	Hydropillar		184			1017				2,000,000
Barrington Road	2 Barrington Road	Ft. Wright	Hydropillar	1969	141	916.5	1057.5	1046.7	1045.0	1040.0	74	1,000,000
Bromley	1674 Highwater Road	Bromley	Ground Storage	1966	103	670.0	773.0	764.0	763.0	750.0	75	3,000,000
Dayton Avenue	2816 Dayton St.	Dayton	Ground Storage		50			829.0				500,000
Devon	US 25	Florence	Hydropillar	1991	156	939.5		1082.0		1042.0	100	2,000,000
Dudley Pike	796 Dudley Pike	Edgewood	Ground Storage	1964	59	831.0	889.5	876.0	874.0	866.0	140	5,000,000
Dudley Pike	796 Dudley Pike	Edgewood	Ground Storage	1990	59	831.0	889.5	876.0	874.0	866.0	140	5,000,000
Ft. Thomas Plant	700 Alexandria Pike	Ft. Thomas	Clearwell	1936	31	734.0	765.3	764.5	762.0	760.0		3,000,000
Ft. Thomas Plant	700 Alexandria Pike	Ft. Thomas	Clearwell	1990	35	730.0	778.5	764.5	763.5	757.5	130	3,500,000
Harrison Ave.	2361 Harrison Ave.	Bellevue	Ground Storage		60			829.0				600,000
Ida Spence	Tower Place	Covington	Elevated Tank	1952	175	840.0	1015.0	1005.0	1003.0	1000.0	57	500,000
Independence	5685 Madison Pike	Independence	Hydropillar	1981	137	943.5		1080.0		1039.5	74	1,000,000
Industrial Park	Industrial Rd. & US 25	Florence	Hydropillar	1961	146	945.5	1091.5	1083.5	1081.0	1062.0	50	500,000
John's Hill Road	Knollwood Dr.	Highland Hts.	Elevated Tank		113			1017.0				500,000
Kenton Lands Rd.	25 Kenton Lands Road	Erlanger	Elevated Tank	1953	158	896.0	1054.0	1045.0	1043.0	1033.0	50	500,000
Lumley Tank	R47 Lumley Ave.	Fort Thomas	Elevated Tank	1937	187			1017.0				275,000
Main St. Tank	Main St. & US 27	Alexandria	Elevated Tank	1962	152			1017.0				300,000
Memorial Pkwy. Plant	2055 Memorial Pkwy.	Fort Thomas	Clearwell					741.0				3,000,000
Old St. 4 Tank	Old St. Road #4	Claryville	Elevated Tank	1976	143			1017.0				1,000,000
Rossford Tank	Marion Dr.	Fort Thomas	Elevated Tank	1962	191			1017.0				300,000
South Newport Tank	Kentucky Drive	Newport	Elevated Tank		155			965.0				1,000,000
Taylor Mill Plant	608 Grand Ave.	Taylor Mill	Clearwell		15	509.5	524.5	522.0	520.0	518.0		1,000,000
Taylor Mill Standpipe	5907 Taylor Mill Rd.	Taylor Mill	Standpipe		143			1010.0	130.0	110.0		329,000
Claryville Tank	Old St. Road #4	Alexandria	Elevated Tank	2008	152	864.0		1017.0			66	750,000
<b>Total storage owned by NKWSD:</b>												<b>36,554,000</b>

North Kentucky Water District  
PSC Annual Report 2008

Attachment 31B

Size	Type	2007 YTD TOTALS	2007 Miles	2007 Percent	2008 Additions	2008 Retirements	2008 YTD TOTALS	2008 Miles	2008 Percent
2"	Cast Iron	45.00	0.01	0.001%			45.00	0.009	0.001%
3"	Cast Iron	-	-	0.000%			-	0.000	0.000%
4"	Cast Iron	372,101.68	70.47	6.221%	437.00	9,844.00	362,694.68	68.692	6.017%
6"	Cast Iron	1,911,309.74	361.99	31.955%	1,106.00	8,159.00	1,904,256.74	360.655	31.591%
8"	Cast Iron	1,193,431.17	226.03	19.953%	18,400.00	7,160.00	1,204,671.17	228.157	19.985%
10"	Cast Iron	135,106.54	25.59	2.259%			135,106.54	25.588	2.241%
12"	Cast Iron	669,707.48	126.84	11.197%	14,967.00	6,045.00	678,629.48	128.528	11.258%
16"	Cast Iron	293,423.08	55.57	4.906%			293,423.08	55.573	4.868%
18"	Cast Iron	1,949.00	0.37	0.033%			1,949.00	0.369	0.032%
20"	Cast Iron	130,867.79	24.79	2.188%	699.00	926.00	130,640.79	24.743	2.167%
24"	Cast Iron	97,522.00	18.47	1.630%	15,066.00		112,588.00	21.323	1.868%
30"	Cast Iron	28,563.00	5.41	0.478%	736.00		29,299.00	5.549	0.486%
36"	Cast Iron	23,548.21	4.46	0.394%	607.00		24,155.21	4.575	0.401%
42"	Cast Iron	18,523.00	3.51	0.310%			18,523.00	3.508	0.307%
				0.000%					0.000%
20"	Concrete	6,050.00	1.15	0.101%			6,050.00	1.145	0.100%
24"	Concrete	21,530.00	4.08	0.360%			21,530.00	4.077	0.357%
36"	Concrete	35,000.00	6.63	0.585%			35,000.00	6.629	0.581%
				0.000%					0.000%
2"	Galvanized	375.00	0.07	0.006%			375.00	0.071	0.006%
				0.000%					0.000%
4"	Transite	50,241.00	9.52	0.840%			50,241.00	9.515	0.833%
6"	Transite	94,528.00	17.90	1.580%			94,528.00	17.903	1.568%
				0.000%					0.000%
1 1/2"	Steel	226.00	0.04	0.004%			226.00	0.043	0.004%
2"	Steel	677.00	0.13	0.011%			677.00	0.128	0.011%
4"	Steel	83.00	0.02	0.001%			83.00	0.016	0.001%
6"	Steel	11.00	0.00	0.000%			11.00	0.002	0.000%
8"	Steel	31.00	0.01	0.001%			31.00	0.006	0.001%
10"	Steel	15.00	0.00	0.000%			15.00	0.003	0.000%
12"	Steel	1,681.00	0.32	0.028%			1,681.00	0.318	0.028%
16"	Steel	582.00	0.11	0.010%			582.00	0.110	0.010%
24"	Steel	549.00	0.10	0.009%			549.00	0.104	0.009%
				0.000%					0.000%
3/4"	Copper	52.00	0.01	0.001%			52.00	0.010	0.001%
1"	Copper	3,787.00	0.72	0.063%			3,787.00	0.717	0.063%
1 1/2"	Copper	4,150.00	0.79	0.069%			4,150.00	0.786	0.069%
2"	Copper	12,648.30	2.40	0.211%			12,648.30	2.396	0.210%
				0.000%					0.000%
1"	Plastic	2,973.00	0.56	0.050%			2,973.00	0.563	0.049%
1 1/2"	Plastic	2,292.00	0.43	0.038%			2,292.00	0.434	0.038%
2"	Plastic	74,396.00	14.09	1.244%	1,645.00		76,041.00	14.402	1.262%
3"	Plastic	108,846.00	20.61	1.820%			108,846.00	20.615	1.806%
4"	Plastic	29,539.00	5.59	0.494%			29,539.00	5.595	0.490%
6"	Plastic	145,941.60	27.64	2.440%	3,210.00	1,531.00	147,620.60	27.958	2.449%
8"	Plastic	501,744.00	95.03	8.389%	20,815.00		522,559.00	98.970	8.669%
12"	Plastic	7,145.00	1.35	0.119%	2,584.00		9,729.00	1.843	0.161%
				0.000%					0.000%
	<b>TOTAL</b>	<b>5,979,183.59</b>		<b>1,132.80</b>	<b>78,265.00</b>	<b>31,658.00</b>	<b>6,025,790.59</b>	<b>1,141.63</b>	

Northern Kentucky Water District  
 Chlorinators and Sodium Hypochlorite Feeders In System  
 Updated 12/31/2008

Attachment 31C

Location	# of Units	Form of Chlorine	Type	Capacity (ea.)
Bromley Pump Station	1	Sodium Hypochlorite	Jesco Pump	1.3 GPH
West Covington Pump Station	1	Sodium Hypochlorite	Jesco Pump	2.8 GPH
Bristow Road Pump Station	1	Sodium Hypochlorite	Jesco Pump	5 GPH
Dudley Pump Station	2	Sodium Hypochlorite	Jesco Pump	12 GPH
Fort Thomas Treatment Plant	8	Sodium Hypochlorite	Watson Marlow	77 GPH
	5	Sodium Hypochlorite	Watson Marlow	22.5 GPH
Taylor Mill Treatment Plant				
Ohio River Pump Station	4	Sodium Hypochlorite	Milton Roy Max Roy B	195 GPH
Memorial Pky Treatment Plant	1	Sodium Hypochlorite	Watson Marlow	9.1 GPH
	2	Sodium Hypochlorite	Seepex	8 GPH

**Booster Pumping Station Facilities**  
**Northern Kentucky Water District**  
**Updated 12/31/2008**

**Pump Stations**

**Attachment 31D**

PUMP STATION LOCATION	CITY LOCATED	NO. OF UNITS	PUMP TYPE	YEAR INSTALLED	HORSE POWER	VOLTS REQUIRED	PUMP CONTROL	RATING PER PUMP (GPM)	TDH (FEET)	SERVICE TYPE
Ohio River Raw Water Pumping Station #1 <i>(Feeds FTTP)</i>	Brent	1	VT	2005	1250	4160	AUTO	8,400	430	HIGH
		2	VT	2005	1250	4160	AUTO	8,400	430	HIGH
		3	VT	1997	1250	4160	AUTO	8,400	430	HIGH
		4	VT	2009	1250	4160	AUTO	8,400	430	HIGH
		5	VT	1999	1250	4160	AUTO	8,400	430	HIGH
		6	VT	2005	1250	4160	AUTO	9,000	430	HIGH
Latonia Ave. and 35th St.	Covington (Const. 1953)	1	HC	2007	75	440	AUTO	700	400	HIGH
		2	HC	2008	75	440	AUTO	700	400	HIGH
Bromley	Bromley	1	VT	1968	60	440	AUTO	500	340	HIGH
		2	VT	1986	75	440	AUTO	700	315	HIGH
		3	VT	1986	75	440	AUTO	700	340	HIGH
Licking River Raw Water Pumping Station	Taylor Mill	1	VT	1990	350	440	AUTO	8333	126	LOW
		2	VT	1971	250	440	AUTO	6250	126	LOW
		3	VT	1993	150	440	AUTO	4900	94	LOW
Taylor Mill Treatment Plant	Taylor Mill	1	VT	2007	600	2300	AUTO	6945	250	HIGH
		2	VT	1954	450	2300	AUTO	3472	385	HIGH
		3	VT	1997	700	2300	AUTO	3472	385	HIGH
		4	VT	1974	1250	2300	AUTO	6945	490	HIGH
		5	VT	1974	1250	2300	AUTO	6945	490	HIGH
		6	VT	1982	600	2300	AUTO	6945	250	HIGH
Dudley Pike 1040 System	Edgewood	1	VT	1965	250	440	AUTO	2825	270	HIGH
		2	VT	1965	250	440	AUTO	2825	270	HIGH
		3	VT	1965	250	440	AUTO	2825	270	HIGH
		4	VT	1979	250	440	AUTO	2222	375	HIGH
Dudley Pike 1080 System	Edgewood	5	VT	1990	600	460	AUTO	6000	282	HIGH
		6	VT	2007	600	460	AUTO	6000	282	HIGH
		7	VT	2008	600	460	AUTO	6000	282	HIGH
		8	VT	2006	600	460	AUTO	5000	282	HIGH
Richardson Rd.	Independence	1	VT	1981	400	440	AUTO	2100	515	HIGH
		2	VT	2001	400	440	AUTO	2100	515	HIGH
		3	VT	1998	400	440	AUTO	2100	515	HIGH
Hands Pike	Covington	1	VT	1983	75	440	AUTO	500	426	HIGH
		2	VT	1983	75	440	AUTO	500	426	HIGH
West Covington	Covington	1	VC	1987	40	440	AUTO	1600	60	LOW
		2	VC	1987	40	440	AUTO	1600	60	LOW
Bristow Rd. <i>(Peerless Pumps)</i>	Independence	1	VT	2002	75	480	AUTO	2900	65	LOW
		2	VT	2002	75	480	AUTO	2900	65	LOW
		3	VT	2002	75	480	AUTO	2900	65	LOW
Newport PS Variable Speed	Fort Thomas	1	VT	2000	500	440	AUTO	4200	372	HIGH
		2	VT	2000	500	440	AUTO	4200	372	HIGH
		3	VT	2000	500	440	AUTO	4200	372	HIGH
US 27 10 MGD	670 Alex. Pk. Fort Thomas	1	VT	1990	350	440	AUTO	3500	300	HIGH
		2	VT	1990	350	440	AUTO	3500	300	HIGH
		3	VT	1990	350	440	AUTO	3500	300	HIGH
		4	VT	2006	350	440	AUTO	3500	300	HIGH
		5	VT	2006	350	440	AUTO	3500	300	HIGH
		6	VT	2006	350	440	AUTO	3500	300	HIGH
Ripple Creek	Cold Spring	1	VC	1991	75	440	AUTO	2050	100	LOW
		2	VC	2008	75	440	AUTO	2050	100	LOW
		3	VC	2007	75	440	AUTO	2050	100	LOW
Ohio River Raw Water Pumping Station #2 <i>(Feeds MPTP)</i>	Fort Thomas	1	VT	1987	800	2400	AUTO	5500	365	HIGH
		2	VT	1999	800	2400	AUTO	5000	365	HIGH
		3	VT	2002	800	2400	AUTO	4000	365	HIGH
Memorial Parkway Treatment Plant Raw Water Pumps	Fort Thomas	1	VC	2008	75	440	AUTO	3675	64	LOW
		2	VC	2008	200	440	AUTO	5300	64	LOW
		3	VC	2008	200	440	AUTO	5300	64	LOW
Carothers Rd. Pump Stn.	Newport	1	VT	1996	150	460	AUTO	1800	263	HIGH
		2	VT	1996	150	460	AUTO	1800	263	HIGH



Case No. 2010-\_\_\_\_\_  
Exhibit     F    

NORTHERN KENTUCKY  
WATER DISTRICT

Sub-district H Water Main Extension Project

Campbell County, Kentucky

Project 184-654

SCHEDULE OF MORTGAGES, BONDS, NOTES, AND  
OTHER INDEBTEDNESS

Northern Kentucky Water District  
 Schedule of Outstanding Debt  
 As of September 30, 2010

Description	Amount
<b>Bonds</b>	
1997	1,855,000
1998	8,430,000
2000 Rural Development Loan	2,054,000
2001	14,520,000
2002 A	42,441
2002 B	5,840,000
2003 A	1,360,000
2003 B	24,110,000
2003 C	14,995,000
2004	8,735,000
2006	26,455,000
2009	27,645,000
<b>Total Bonds</b>	<b>\$ 136,041,441</b>
<b>Notes</b>	
KIA Loans	11,273,080
Taylor Mill purchase note	\$ 1,275,000
Deferred note payable	100,000
BAN 2009	29,160,000
<b>Total Notes</b>	<b>\$ 41,808,080</b>
<b>Total Debt</b>	<b>\$ 177,849,521</b>



NORTHERN KENTUCKY  
WATER DISTRICT

Sub-district H Water Main Extension Project

Campbell County, Kentucky

Project 184-654

CURRENT BALANCE SHEET AND INCOME  
STATEMENT

Northern Kentucky Water District  
Balance Sheet  
As of September 30, 2010

	2010	2009
ASSETS		
CURRENT ASSETS		
Cash and Cash Equivalents	\$8,556,953	\$8,381,185
Accrued Interest Receivable	11,709	34,476
Accounts Receivable		
Customers	5,263,231	5,008,535
Unbilled Customers	4,700,000	4,700,000
Other	163,751	30,152
Assessments Receivable	87,322	82,711
Inventory Supplies for New Installation and Maintenance, at Cost	914,953	1,025,399
Prepaid Items	359,211	171,174
TOTAL CURRENT ASSETS	20,057,130	19,433,632
RESTRICTED ASSETS		
Boone/Florence Settlement Account	2,036,014	2,429,819
Bond Proceeds Fund	23,612,032	12,067,765
Debt Service Reserve Account	16,251,034	15,422,227
Debt Service Account	8,555,598	6,597,940
Improvement, Repair & Replacement	6,722,222	1,132,370
TOTAL RESTRICTED ASSETS	57,176,900	37,650,121
NONCURRENT ASSETS		
Miscellaneous Deferred Charges	7,744,208	8,562,063
Capital assets:		
Land, System, Buildings and Equipment	316,199,695	291,176,237
Construction in Progress	50,600,584	53,143,658
Total capital assets before accumulated depreciation	366,800,279	344,319,895
Less Accumulated Depreciation	(83,372,378)	(75,286,632)
Total capital assets before accumulated depreciation	283,427,901	269,033,263
TOTAL NONCURRENT ASSETS	291,172,109	277,595,326
TOTAL ASSETS	368,406,139	334,679,079

Northern Kentucky Water District  
Balance Sheet  
As of September 30, 2010

	2010	2009
LIABILITIES AND RETAINED EARNINGS		
CURRENT LIABILITIES		
Current Portion of Long Term Debt	\$7,647,748	\$6,854,527
Accounts Payable	1,552,941	1,503,306
Accrued Payroll & Liabilities	143,756	232,955
Other Accrued Liabilities	222,708	212,176
TOTAL CURRENT LIABILITIES	9,567,153	8,802,964
CURRENT LIABILITIES PAYABLE FROM RESTRICTED ASSETS		
Accounts Payable	2,330,657	1,216,507
Accrued Interest Payable	1,690,761	1,357,699
TOTAL CURRENT LIABILITIES PAYABLE FROM RESTRICTED ASSETS	4,021,418	2,574,206
LONG-TERM DEBT		
Long-Term Portion of Bonded Indebtedness	183,742,715	186,922,386
Bond Anticipation Notes Payable	29,160,000	
Note Payable - Taylor Mill	1,100,000	1,275,000
Deferred Note Payable	100,000	100,000
TOTAL LONG-TERM DEBT	214,102,715	188,297,386
TOTAL LIABILITIES	227,691,286	199,674,556
Unrestricted Retained Earnings	111,863,862	106,153,534
TOTAL NET ASSETS	140,714,854	135,004,526
TOTAL LIABILITIES AND NET ASSETS	368,406,140	334,679,082

Northern Kentucky Water District  
Revenue Actual to Actual  
For the Nine Months Ending September 30, 2010

Acct. #	Description	September 2010	September 2009	Variance	YTD 2010	YTD 2009	Variance
	Revenue						
(461 TO 466...	Water Sales	\$5,145,136	\$4,801,790	(7%)	\$29,499,416	\$29,167,962	(1%)
(470 TO 470)	Forfeited Discounts	60,955	62,743	3%	541,555	568,083	5%
(4720001000...	Rents from Water Property	41,535	29,385	(41%)	394,227	364,322	(8%)
(471 TO 471...	Other Water Revenues	33,240	27,860	(19%)	257,740	217,570	(18%)
	Total Operating Revenues	<u>5,280,866</u>	<u>4,921,778</u>	(7%)	<u>30,692,938</u>	<u>30,317,937</u>	(1%)
	Non-Operating Income						
4190001000 ...	Interest Income	62,454	82,436	24%	745,569	450,259	(66%)
(474 TO 474...	Miscellaneous	15,498	14,365	(8%)	196,310	131,937	(49%)
	Total Non-Operating Income	<u>77,952</u>	<u>96,801</u>	19%	<u>941,879</u>	<u>582,196</u>	(62%)
	Total Revenues	<u><u>5,358,818</u></u>	<u><u>5,018,579</u></u>	(7%)	<u><u>31,634,817</u></u>	<u><u>30,900,133</u></u>	(2%)

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Northern Kentucky Water District  
Expense Report Actual to Actual %  
For the Nine Months Ending September 30, 2010

ACCT	Description	September 2010	September 2009	Variance	YTD 2010	YTD 2009	Variance
	<b>SOURCE OF SUPPLY</b>						
(60110000...	Licking River Pumpstation	\$4,697.67	\$4,706.39	(0.19%)	\$56,422.18	\$42,151.29	33.86%
(60110000...	Ohio river pumpstation # 1	\$55,775.02	\$53,443.85	4.36%	\$414,699.10	\$524,909.49	(21.00%)
(60110001...	Ohio river pumpstation # 2	\$5,326.32	\$5,782.17	(7.88%)	\$47,091.96	\$56,983.10	(17.36%)
(63510000...	General source of supply	\$882.65	\$115.90	661.56%	\$7,944.54	\$1,041.86	662.53%
	<b>Total Source of supply</b>	<b>\$66,681.66</b>	<b>\$64,048.31</b>	<b>4.11%</b>	<b>\$526,157.78</b>	<b>\$625,085.74</b>	<b>(15.83%)</b>
	<b>WATER QUALITY &amp; PRODUCTION</b>						
(60130000...	Fort Thomas treatment plant	\$229,063.49	\$231,116.62	(0.89%)	\$2,461,159.50	\$2,662,304.62	(7.56%)
(60130000...	Taylor Mill treatment plant	\$67,609.24	\$74,888.15	(9.72%)	\$676,825.39	\$584,046.05	15.89%
(60130000...	Memorial pky treatment plant	\$75,103.01	\$70,017.36	7.26%	\$714,717.09	\$693,628.65	3.04%
(60130000...	Laboratory	\$66,507.28	\$59,613.71	11.56%	\$633,136.27	\$602,355.53	5.11%
(60130000...	Instrumentation	\$47,118.96	\$34,099.87	38.18%	\$411,876.82	\$395,263.40	4.20%
(60130000...	Sludge	\$30,359.66	\$14,085.06	115.55%	\$165,604.09	\$127,799.22	29.58%
	<b>Total Water Quality &amp; Production</b>	<b>\$515,761.64</b>	<b>\$483,820.77</b>	<b>6.60%</b>	<b>\$5,063,319.16</b>	<b>\$5,065,397.47</b>	<b>(0.04%)</b>

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Northern Kentucky Water District  
Expense Report Actual to Actual %  
For the Nine Months Ending September 30, 2010

ACCT	Description	September 2010	September 2009	Variance	YTD 2010	YTD 2009	Variance
PUMPING & STORAGE							
(60150000...	Bristow road station	\$1,639.02	\$955.35	71.56%	\$12,630.98	\$10,200.77	23.82%
(60150000...	Bromley station	\$2,731.36	\$2,746.82	(0.56%)	\$21,132.46	\$27,439.50	(22.99%)
(60150000...	Carothers road station	\$2,315.69	\$2,424.59	(4.49%)	\$22,322.24	\$24,502.60	(8.90%)
(60150000...	Dudley station	\$32,460.21	\$24,480.45	32.60%	\$216,666.93	\$219,163.70	(1.14%)
(60150000...	Hands pike station	\$1,095.66	\$639.39	71.36%	\$11,772.47	\$7,889.41	49.22%
(60150000...	Latonia station	\$1,451.57	\$1,277.90	13.59%	\$12,024.62	\$10,716.27	12.21%
(60150000...	Richardson road station	\$19,004.37	\$17,044.60	11.50%	\$118,578.61	\$148,274.84	(20.03%)
(60150000...	Ripple creek station	\$2,337.29	\$1,971.07	18.58%	\$18,649.56	\$19,753.54	(5.59%)
(60150000...	Taylor Mill station	\$53,310.83	\$42,866.18	24.37%	\$344,414.55	\$299,873.13	14.85%
(60150000...	U S 27 station	\$24,149.01	\$19,758.56	22.22%	\$166,843.28	\$183,074.11	(8.87%)
(60150000...	Waterworks station	\$2,006.49	\$2,024.10	(0.87%)	\$19,660.81	\$15,667.18	25.49%
(60150000...	West Covington station	\$1,056.69	\$831.35	27.11%	\$6,078.40	\$8,647.65	(29.71%)
(60150000...	Water towers	\$28,440.54	\$34,886.50	(18.48%)	\$312,566.26	\$346,790.36	(9.87%)
(60150000...	General pumping & storage	\$103,775.31	\$93,556.69	10.92%	\$847,048.71	\$883,418.10	(4.12%)
	Total Pumping & Storage	\$275,774.04	\$245,463.55	12.35%	\$2,130,389.88	\$2,205,411.16	(3.40%)
	TOTAL SOS, WQ&P, P&S	\$858,217.34	\$793,332.63	8.18%	\$7,719,866.82	\$7,895,894.37	(2.23%)
ENGINEERING & DISTRIBUTION							
(60150000...	Engineering	\$135,202.25	\$120,002.84	12.67%	\$1,231,467.61	\$1,153,408.85	6.77%
(60150000...	Distribution	\$422,409.69	\$377,177.13	11.99%	\$3,739,393.67	\$3,554,671.44	5.20%
(60150000...	Flushing	\$8,456.92	\$6,580.06	28.52%	\$56,182.09	\$52,005.82	8.03%
	TOTAL ENG. & DIST.	\$566,068.86	\$503,760.03	12.37%	\$5,027,043.37	\$4,760,086.11	5.61%

Northern Kentucky Water District  
Expense Report Actual to Actual %  
For the Nine Months Ending September 30, 2010

ACCT	Description	September 2010	September 2009	Variance	YTD 2010	YTD 2009	Variance
	<b>CUSTOMER SERVICE</b>						
(60170000...	Field service	\$70,435.19	\$67,935.20	3.68%	\$644,509.28	\$639,117.36	0.84%
(60170000...	Meter Shop	\$41,678.16	\$23,339.68	78.57%	\$297,050.76	\$275,838.55	7.69%
(60170000...	Courier/Maintenance	\$5,019.30	\$4,548.39	10.35%	\$47,396.63	\$44,054.98	7.59%
(60170000...	Account service	\$122,776.76	\$98,290.85	24.91%	\$1,116,931.45	\$1,144,158.43	(2.38%)
(60170000...	Meter reading	\$10,223.41	\$17,155.96	(40.41%)	\$159,730.19	\$193,486.02	(17.45%)
(60170000...	Gen. Customer Service	\$50,119.36	\$40,877.58	22.61%	\$460,784.27	\$497,499.40	(7.38%)
	<b>TOTAL CUSTOMER SERVICE</b>	<b>\$300,252.18</b>	<b>\$252,147.66</b>	<b>19.08%</b>	<b>\$2,726,402.58</b>	<b>\$2,794,154.74</b>	<b>(2.42%)</b>
	<b>ADMINISTRATION</b>						
(60180000...	Executive management	\$44,144.21	\$33,698.80	31.00%	\$392,083.73	\$392,222.19	(0.04%)
(60180000...	Board of commissioners	\$10,395.83	\$11,017.23	(5.64%)	\$95,272.54	\$108,152.11	(11.91%)
(60180000...	Accounting/Finance	\$17,366.07	\$17,446.64	(0.46%)	\$217,565.25	\$254,592.20	(14.54%)
(60180000...	H.R., Information systems,Safety	\$104,401.47	\$95,906.96	8.86%	\$968,865.27	\$1,071,109.02	(9.55%)
(60180000...	General administration	\$57,141.40	\$57,497.28	(0.62%)	\$603,787.00	\$765,301.52	(21.10%)
	<b>TOTAL ADMINISTRATION</b>	<b>\$233,448.98</b>	<b>\$215,566.91</b>	<b>8.30%</b>	<b>\$2,277,573.79</b>	<b>\$2,591,377.04</b>	<b>(12.11%)</b>
	<b>TOTAL NKWD</b>	<b>\$1,957,987.36</b>	<b>\$1,764,807.23</b>	<b>10.95%</b>	<b>\$17,750,886.56</b>	<b>\$18,041,512.26</b>	<b>(1.61%)</b>



## NOTICE OF FUTURE WATER SERVICE AND SURCHARGE

Northern Kentucky Water District will seek approval of the Public Service Commission of Kentucky to furnish potable water service to Sub-District H Water Main Extension Project. This project is located in the rural area in Campbell County which includes the following streets or portions thereof:

### Sub-District H –

Rifle Range Road (from Licking Pike to #539)
Creektrace Road (from Licking Pike to Pond Creek Road)
Indian Trace Road (from Creektrace to the end of the road)
JoAnn Lane (from Indian Trace to the dead end)
Lauren Lane (from Creek Trace to the dead end)
Schababerle Hill (from Wesley Chapel to Daniels Road)
Wesley Chapel Road (from California Cross Road to address #12635)
Maddox Road (From Madonna to the dead end)
Cory Lane (Maddox to the dead end)
John Miller Road (from Creektrace to address #9807)
Bars Branch Road (from end of line on Bars Branch to address #9677)
Pleasant Ridge Road (from Visalia Road to address #11138)
Enzweiler Rd. (from end of the existing water main at 51 Enzweiler Rd. to last house)
Orlando Drive (from U.S. 27 to the end of the public street)

Total construction costs for this project will be approximately \$4,555,860.00. The proposed consumer rates will be:

### **PRELIMINARY NORTHERN KENTUCKY WATER DISTRICT MONTHLY WATER RATES FOR PROPOSED SUB-DISTRICT H WATER MAIN EXTENSION PROJECT**

**ESTIMATED MONTHLY SURCHARGE OF \$30.00  
SHALL BE ADDED TO THE MINIMUM MONTHLY BILL**

#### **SECTION II – RETAIL WATER RATES**

##### 1. Rates

First 4,500 cubic feet used per month	\$3.31 per 100 cubic feet
Next 490,500 cubic feet used per month	\$2.88 per 100 cubic feet
Next 495,500 cubic feet used per month	\$2.55 per 100 cubic feet

Minimum Monthly charges by meter sizes shall apply for each size meter.

5/8"	\$ 12.54	3	\$ 48.61
3/4"	\$ 12.96	4	\$ 60.89
1"	\$ 14.15	6"	\$ 90.16
1 1/2"	\$ 15.93	8"	\$ 121.75
2"	\$ 20.13	10"& Larger	\$ 161.91

Sample Monthly Bill Amount for a 5/8" meter is as Follows:

Estimated Monthly Usage of 2,000 Gallons-- Estimated Monthly Bill = \$51.39  
Estimated Monthly Usage of 3,000 Gallons-- Estimated Monthly Bill = \$55.82  
Estimated Monthly Usage of 4,000 Gallons-- Estimated Monthly Bill = \$60.24  
Estimated Monthly Usage of 5,000 Gallons-- Estimated Monthly Bill = \$64.67  
Estimated Monthly Usage of 6,000 Gallons -- Estimated Monthly Bill = \$69.09

Note: Actual bill will vary according to actual measured usage  
Note: The estimated monthly bill includes the \$30.00 surcharge amount.

The proposed surcharge may be changed by the Ky. Public Service Commission and may be higher or lower than proposed.

Any corporation, association, body politic or person may by timely motion, within 30 days of this notice, request intervention in the case. The motion must be submitted in writing to the Public Service Commission, 211 Sower Blvd., Box 615 Frankfort, KY 40602 and should state the grounds for the request, including the interest and status of the party. Customers may obtain without cost a copy of the Application and any testimony filed by contacting Northern Kentucky Water District at the address below. Interveners may obtain a copy of the Application and supporting documents. A copy of the Application and testimony is available for public review at the district's office.

For further information contact the PSC of Kentucky at PO Box 615 Frankfort, KY 40602 (Tel: 502 564 3940). Or contact the undersigned.

Northern Kentucky Water District  
2835 Crescent Springs Road  
PO Box 18640  
Erlanger, KY 41018  
(859) 578-9898

**SECTION II – RETAIL WATER RATES**

**Northern Kentucky Water District Service Area**

1. Monthly Service Rate

First	1,500 cubic feet	\$3.31 per 100 cubic feet
Next	163,500 cubic feet	\$2.88 per 100 cubic feet
Over	165,000 cubic feet	\$2.55 per 100 cubic feet

**Customers in Subdistrict A** \*shall be assessed a monthly surcharge in the amount of \$ 8.76

**Customers in Subdistrict B** \*shall be assessed a monthly surcharge in the amount of \$18.05

**Customers in Subdistrict C** \*shall be assessed a monthly surcharge in the amount of \$18.90

**Customer in Subdistrict D** \*shall be assessed a monthly surcharge in the amount of \$30.00

**Customers in Subdistrict E** \*shall be assessed a monthly surcharge in the amount of \$30.00

**Customers in Subdistrict F** \*shall be assessed a monthly surcharge in the amount of \$30.00

**Customers in Subdistrict G** \*shall be assessed a monthly surcharge in the amount of \$30.00

**Customers in Subdistrict H** \*shall be assessed a monthly surcharge in the amount of \$30.00

**Customers in Subdistrict K** \*shall be assessed a monthly surcharge in the amount of \$12.89

**Customers in Subdistrict R** \*shall be assessed a monthly surcharge in the amount of \$18.27

**Customers in Subdistrict RF** \*shall be assessed a monthly surcharge in the amount of \$21.61

**Customers in Subdistrict RL** \*shall be assessed a monthly surcharge in the amount of \$36.22

\*Subdistrict charges are reviewed annually.

\*Detailed street listing within each Subdistrict can be found under Appendix A.

\*Service connections on extensions or laterals from a Subdistrict street will be assessed the appropriate Subdistrict charge.

2. Quarterly Rates

First	4,500 cubic feet	\$3.31 per 100 cubic feet
Next	490,500 cubic feet	\$2.88 per 100 cubic feet
Next	495,000 cubic feet	\$2.55 per 100 cubic feet

3. Fixed Service Charge

<u>Meter Size</u>	<u>Monthly Service Charge</u>	<u>Quarterly Charge</u>
5/8"	\$12.54	\$18.97

Date of Issue: November 5, 2010

Date Effective: December 15, 2010

Issued by: \_\_\_\_\_  
 Officer & Title Jack Bragg, Jr. CPA, CMA  
 Vice President - Finance

2835 Crescent Springs Road, Erlanger, Ky 41018

**SECTION II – RETAIL WATER RATES – Cont’d**

¾"	\$12.96	\$19.99
1"	\$14.15	\$22.98
1 ½"	\$15.93	\$27.08
2"	\$20.13	\$38.07
3"	\$48.61	\$118.45
4"	\$60.89	\$148.45
6"	\$90.16	\$219.44
8"	\$121.75	\$299.79
10" and Larger	\$161.91	\$391.47

**SECTION III – WHOLESALE WATER SALES**

Bullock Pen Water District	\$2.97 per 1,000 gallons (or) \$2.22 per 100 cubic feet
City of Walton	\$2.97 per 1,000 gallons (or) \$2.22 per 100 cubic feet
Pendleton County	\$2.97 per 1,000 gallons (or) \$2.22 per 100 cubic feet

**SECTION IV – MISCELLANEOUS SERVICE FEES**

Returned Check Charge	\$ 20.00
Water Hauling Station	3.50 per 1,000 gallons
Service Charge	25.00 (See Definitions in Section 1-A)
Overtime Charge	60.00

**SECTION V – CUSTOMER BILL OF RIGHTS**

As a residential customer of a regulated public utility in Kentucky, you are guaranteed the following rights subject to the Kentucky Revised Statutes and the provisions of the Kentucky Administrative Regulations:

- You have the right to service, provided you (or a member of your household whose debt was accumulated at your address) are not indebted to the utility.
- You have the right to inspect and review the utility’s rates and tariff operating procedures during the utility’s normal office hours. (8:00 AM to 5:00 PM, Monday through Friday).
- You have the right to be present at any routine utility inspection of your service conditions.
- You must be provided a separate, distinct disconnect notice alerting you to a possible disconnection of your service if payment is not received .

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This list will be updated annually, and additional streets added between annual tariff updates will be posted on the District web page [www.nkywater.org](http://www.nkywater.org) within thirty (30) days of the completion of an extension or lateral from an existing Subdistrict street.

## APPENDIX A – Subdistrict Street Names

### Customers in Subdistrict A

- Ashford Village Subdivision - Donegal Ct., Ashford Rd., Celtic Ct., Desmond, Galway Ct., Kildare Ct., Limerick Circlecourt, Waterford Ct. (Off of Mills Rd.)
- Bowman Rd. (KY 16 to end of road)
- Dorman Dr. (Hickory Grove to end of road)
- Gretchen Dr. (Ryland Estates Subdivision) – Stewart to end of road
- Hickory Grove Drive – KY 16 to end of road
- KY 177 – Porter Rd. to Pruett Rd.
- Manor Hill Subdivision, Burbridge Trail, Cotswold Way, Foxbourne Lane, Manor Hill Dr., Sussex Ct. Tennyson Pl., Willowhurst Trace & Windmere Hill (Off Marshall Rd.)
- Manor Lake Dr. – KY 16 to end of road
- Marshall Rd. – KY 16 to Stewart Rd.
- Miller Lane – Tapped off KY 177
- Mills Rd. – Marshall to Taylor Mill Water Service Area (5,700’)
- Petty Rd. – Tapped off Marshall Rd.
- Pruett Rd. – KY 177 to 300’
- Riggs Rd. – KY 16 to end of road
- Ryland Trace Dr. – Subdivision off KY 177
- Staffordsburg Rd. – Marshall Rd. to Maverick
- Stewart Rd. – Marshall to KY 177
- Teegarden Lane – Bowman to end of road

### Customers in Subdistrict B

- Armstrong Rd. – 1 service tapped off Moffett
- Bird Rd. – KY 17 to Wynewood
- Farmview Dr. – Moffett Rd. to end of pavement
- Gleason – 1 service tapped off Madison
- KY 17 (Madison Pike) – 12363 to 14158 – 1,200’ North of Callant Rd. to Gleason
- Martin Rd. – Moffett Rd. to 3,650’
- Moffett Rd. – KY 17 to Armstrong Rd.
- Rector Rd. – Moffett Rd. to 8,100’
- Rosehawk Lane (Forrest Ridge Subdivision Off of Moffett)
- Wynewood Trail – Bird Rd. to end of road

### Customers in Subdistrict C

- Anna Lane – Maher Meadows Subdivision
- Banklick Rd. – From Bristow to Maher
- Brian Drive – Maher Meadows Subdivision
- Callant – From KY 17 for the first 0.6 miles
- Dixon Dr. – 2 services tapped on KY 17, 1 service tapped on Rich Rd.
- Gardnersville Rd. – From KY 17 for the first 0.8 miles

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2835 Crescent Springs Road, Erlanger, Ky 41018

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**APPENDIX A – Subdistrict Street Names – Cont’d**

- Glenhurst Subdivision – Chinkapin Circle, Berlander Dr.(stops @ 684 Berlander Road), Glenhurst Dr., Lyonia Dr., Colton Ct., Tupelo Drive, Hornbean Dr. Off of Maher Rd.)
- Graven Rd. – From Maher, 4,400’ towards Wright Road
- Green Rd. – KY 16 to US 25
- Hempfling Rd. – First 2.1 miles
- Independence – From Shaw to Maher Rd., Maher 2700’ towards Banklick
- KY 17 (Madison Pike) – 14192 – 15960 – Gleason to Pendleton County Line
- Maher – From Banklick Rd. to Kenton/Boone County Line
- Maher – From Independence Road to Banklick
- Maher Subdivision: Meadows, Parker Drive, Stanley Lane, Anna Ln, Brian Lane.
- Martin Road – From Subdistrict B to Staffordsburg Road
- Mulberry Lane – (Rolling Greene Subdivision off of Green Road)
- Parker Drive – Maher Meadows Subdivision
- Paxton Road – From KY 17 for the first 0.65 miles
- Percival Road
- Rector Road – From Subdistrict B to Kenton Station Road
- Rich Road – From KY 17 for the first 2.1 miles
- South Fork Estates Subdivision (South Fork Drive)
- South Fork Estates Subdivision (Thoroughbred Lane)
- South Fork Estates Subdivision – Stablegate
- Spillman Road – KY 17 to end of road
- Staffordsburg Road – From KY 16 to Martin Road
- Stanley Lane – Maher Meadows Subdivision
- Stephenson Road – From Green Road to the first 0.5 miles
- Symbo – From Green Road for the first 0.6 miles
- US 25 – Walton City Limits to KY 14
- Visalia Road – From Klein Road to the school (waiting on PSC approval)
- Visalia Road – From Staffordsburg Road for 2 miles
- York Road – From US 25 to the first 0.4 miles

**Customer in Subdistrict D**

- 4 Mile Pike from Uhl Road to Geenville
- California Cross Roads from Saint Peter and Paul to Washington Trace Road
- Ky Route 8 to McDonald Lane off Blangey Road
- Persimmon Grove Pike from Burns Road to California Cross Road
- Persimmon Grove Pike from Shaw to Burns Road
- Persimmon Grove Pike from Stevens Branch to Shaw Hess
- Wagner Road – first .6 miles
- Winters Lane – County
- Providence Trace off of 4 Mile
- Licking Pike & Steffen Road from Route 10 to KY 936 – ky 936 before Poplar Thicket

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**APPENDIX A – Subdistrict Street Names – Cont’d**

**Customers in Subdistrict E**

- Bethel Grove
- Brandy Lane
- Bromley Crescent Springs Road
- Fiskburg Road (KY 17 to Goshorn Road)
- Ishmael Road (KY 177 to 1200')
- Kenton Station (Rector Road to KY 177)
- KY 177 (North of Kenton Station 7100')
- KY 177 (North of Vises Trail 4250')
- KY 177 (South of Kenton Station 5400')
- KY 177 (South of Vises Trail 2850')
- Licking Station
- McDonald Avenue
- Oliver Road
- St. Johns Road
- Vises Trail from KY 177 to 1150' south of Visalia Road
- Whitaker

**Customers in Subdistrict F**

- Grandview
- Amy Lou
- Flagg Springs
- West Main Street
- Licking Pike from Rifle Range to Sub-D
- Licking Pike (Existing 8 inch Water Main to Ripple Creek)
- Licking Pike from Trapp Rd to Rifle Rang
- Heck Road
- Steffen Road
- Siry Road
- Flatwood Road

**Customers in Subdistrict G**

- Petty Road from Marshall to 3927 Pruett Road
- Klein Road from Visalia to the dead end\
- Estate Lane from Visalia to the dead end
- Bramlage Road from Wilson to Banklick
- Fowler Creek Road from Senour to address 5282
- Fowler Creek Road from 5346 to Cox/Oliver
- Bullock Penn Road from Old Madison to dead een
- Misty Lane all of street
- Webster Road from address 251-to 270
- Cody Road from address 5364 to Upton Drive
- Cody Road from Flagstone to address 5545

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2835 Crescent Springs Road, Erlanger, Ky 41018

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**APPENDIX A – Subdistrict Street Names – Cont’d**

**Customer in Subdistrict G Cont’d**

- Upton Drive Cody Road to dead end
- Sugar Camp address 2760 to Fowler Creek
- Wolf from Valley View to KY 17
- Hollyhock Wolf to address 641
- Lieberman Libscomb to address 5619
- Banklick from Walton Nickolson to Maher
- Independence Road from address 1068 to Banklick Road

**Customers in Subdistrict K**

- Klette Road
- Rice Road
- Saylor Court
- Tamber Ridge Drive
- Sencely Court
- Chandrel Court
- Marshall Road
- Coleman Road

**Customers in Subdistrict R**

- Coleman Road – KY 177 to end of street
- Feiser Road – Porter Road to Locust Pike
- KY 177 – 500’ North of Wards to 2900’ South of Wards
- KY 177 – Porter Road to 800’ North
- KY 177 – Pruett Road to Ryland Lakes Drive
- Locust Pike – 650’ West of Whites end of road
- Locust Pike – Feiser Road to Wards Lane
- Porter Road – KY 177 to 7,500’
- Redrow – Locust Pike to end of street
- Spanton Road – Locust Pike to 1,300’
- Wards Lane – Locust Pike to KY 177
- Whites Road – KY 177 to Locust Pike

**Customers in Subdistrict RF**

- KY 177 (From Subdistrict R to short Marshall)
- Porter Road (From Tecuseh approximately 500’)
- Short Marshall (KY 177 East 500’)
- Tecumseh

**Customers in Subdistrict RL**

- Crystal Court
- Crystal Drive
- Crystal Lane
- Ernst Bridge Road
- Hillside Drive
- Maplewood Drive

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**APPENDIX A – Subdistrict Street Names – Cont’d**

**Customers in Subdistrict RL – Cont’d**

- Meadow Lane
- Mirror Court
- Northhall Court
- Orchard Lane
- Redbud Lane
- Ryland Lakes Drive
- Sylvan Lake Drive
- Wild Lake Drive

**Customers in Subdistrict H**

- Rifle Range Road (Licking Pike to the Bridge)
- Enzweiler Road
- Orlando Drive
- Bars Branch (End of line to Address #9677)
- Creektrace Road (Licking Pike to John Miller)
- Creektrace Road (John Miller to Indian Trace)
- Creektrace Road (Indian Trace to Pond Creek)
- Indian Trace Road (Creek Trace to JoAnn Lane)
- Indian Trace Road (JoAnn to the end of the Road)
- JoAnn Lane
- Lauren Lane
- John Miller Road (Creektrace to address #9807)
- Pleasant Ridge Road (End of Line to address #11138)
- Maddox Rd. (End of Line to the end of the Road)
- Cory Drive
- Wesley Chapel (California Cross Roads to Schababerle Hill Road)
- Wesley Chapel (Schbaberle Hill to address #12635)
- Schababerle Hill Road (Wesley Chapel to Daniels Road)

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## Campbell County Unserved Street Listing

## Sorted "Weighted Customers Per Mile"

## Full Listing

Streets in yellow are for Subdistrict H

Street	Comment:	Number of Unserved Households	Distance (Miles)	Estimated Project Cost	City	Est \$ per Foot	Actual Customers Per Mile	Weighted Customers Per Mile	Comment
Enzweiler Road	From last fire hydrant to inc. #121	12	0.20	62,420.16	Alexandria	59.11	60.00	60.00	#100 is served
Otlando	House #22 to D.E. (#15 has spiderline)	8	0.14	43,694.11	Alexandria	59.11	42.24	42.24	
Rifle Range Rd.	From Licking Pike to 1st bridge	22	0.70	218,470.96	Unincorporated	59.11	31.43	31.43	3 houses abandoned
Pleasant Rd., Rd.	From Visalia Rd to #11138	12	0.48	149,809.58	Unincorporated	59.11	25.00	25.00	
Creektrace Rd. (Pond Creek)	From Licking Pike to John Miller Rd.	10	1.56	489,877.25	Unincorporated	59.11	6.42	24.48	depends on creektrace
Creektrace Rd. (Pond Creek)	From John Miller Rd. to Indian Trace Rd.	6	0.26	81,146.21	Unincorporated	59.11	23.29	24.48	depends on creektrace
Creektrace Rd. (Pond Creek)	From Indian Trace Rd. to Bridge	20	0.51	159,171.41	Unincorporated	59.11	59.11	24.48	depends on creektrace
Indian Trace Rd.	Indian Trace Rd. (From Creek Trace (Pond Cr.) to JoAnn)	15	0.99	164,139.47	Unincorporated	59.11	25.42	24.48	depends on creektrace
JoAnn Lane	Indian Trace to dead end	19	0.44	137,324.35	Unincorporated	59.11	43.18	24.48	depends on indian trace and creektrace
John Miller	From Creek Trace to #9807	5	0.14	43,694.11	Unincorporated	59.11	42.86	24.46	depends on creektrace
Lauret	Creek Trace (Rt. 556) to D.E.	16	0.34	106,114.27	Unincorporated	59.11	52.80	24.46	depends on creektrace
Wesley Chapel Rd.	From Schababerle Hill to inc. #12630	29	1.20	374,520.95	Unincorporated	59.11	24.17	24.17	depends on wesley chapel
Coxy	Maddox to D.E.	13	0.30	33,630.24	Unincorporated/C	59.11	39.65	22.55	depends on maddox road
Maddox Rd	House #591 to dead end	10	0.72	224,712.56	Claryville	59.11	15.37	22.55	
Blangey Rd.		11	0.50	158,400.00	Brent	60	22.00	22.00	Geotechnical issues
Hisser Rd.	From Nagel to Aulick	11	0.50	158,400.00	Unincorporated	60	22.00	22.00	PCWD
Barrs Branch Rd.	From End of line on Barrs Br. To inc. #9577	8	0.38	116,598.30	Alexandria	59.11	21.05	21.05	Letter of Interest sent 2009 - no -interest - incl Andron Trce mailboxes but not distance
Indian Trace Rd.	Indian Trace Rd. (From JoAnn to End of road)	18	0.87	271,527.70	Unincorporated	59.11	20.69	20.69	depends on indian trace and creektrace
Schababerle Hill	From Wesley Chapel Rd. to Daniels Rd	15	0.66	205,966.53	Unincorporated	59.11	24.24	20.60	depends on wesley chapel
Wesley Chapel Rd.	From Calif. Cr.Rds. To Schababerle Hill	18	1.04	319,532.93	Unincorporated	58.19	17.37	20.00	
Upper Lick Branch Rd.	From Grandview to driveway past #2274	9	0.45	142,560.00	Unincorporated	60	20.00	20.00	Letter of Interest sent 2009 - no -interest
Low Gap Rd	From #954 to inc. #878	4	0.20	62,420.16	Unincorporated	59.11	20.00	20.00	#930, 950 and 954 are served
Munn Rd.	Aulick to dead end	14	0.70	221,760.00	Unincorporated	60	20.00	20.00	PCWD
Daniels Rd.	From Schababerle Hill to #3185	20	1.00	312,100.80	Unincorporated	59.11	20.00	20.00	depends on Wesley Chapel and Schababerle Hill
Mystic Rose (Gunkle Rd. #2)	Nine Mile to dead end	8	0.40	124,840.32	Melbourne	59.11	20.00	20.00	#6411 is served
Picnic Road	from Wagner Rd. To end of road	2	0.10	31,210.08	Unincorporated	59.11	20.00	20.00	
Shaw-Hess Rd	From end of line on Shaw Hess to #10280	3	0.15	46,815.12	Unincorporated	59.11	20.00	20.00	
Tower Hill Rd.	From Rt. 8 to Watchpoint	5	0.25	79,200.00	Ft. Thomas	60	20.00	20.00	Geotechnical issues
Pond Creek Road	From Bridge to #10365	13	0.66	205,966.53	Unincorporated	59.11	19.70	19.70	depends on Creek Trace
Barrs Branch Rd.	From #9677 on Barrs Br. To Flagg Springs Pike (Rt 10)	13	0.70	221,760.00	Alexandria	60	18.57	18.57	Letter of Interest sent 2009 - no -interest
Demossville Rd.	from Aulick to dead end	20	1.10	348,400.00	Unincorporated	60	18.18	18.18	PCWD
Harnsburg Hill	From Lees to Pleasant Rdg. Rd.	19	1.10	343,310.88	Unincorporated	59.11	17.27	16.29	depends on lees road
Harnsburg Hill	From Pleasant Ridge to dead end	10	0.50	156,050.40	Unincorporated	59.11	20.00	16.29	depends on lees road
Lees Road	From Pleasant Rdg. Rd. To Tarvin Rd.	15	1.00	312,100.80	Unincorporated	59.11	15.00	16.29	depends on Pleasant Ridge
Lees Road	From Tarvin Rd. to Harrisburg Hill Rd.	12	0.70	218,470.56	Unincorporated	59.11	17.14	16.29	depends on Pleasant Ridge and Lees road
Pleasant Rdg. Rd.	From #11138 to Lees Rd.	1	0.20	62,420.16	Unincorporated	59.11	5.00	16.29	
Burns Rd.	From Flatwoods Rd. to St. Route 154	31	2.00	528,000.00	Unincorporated	50	15.50	15.50	
Dodsworth Ln.	Dodsworth Ln.	20	1.30	411,840.00	Unincorporated	60	15.38	15.38	No interest letter sent prior to 2009
Rt. 8	Winters Lane to End of line near Ky-1998	9	0.60	158,400.00	Brent	50	15.00	15.00	
Truedell Rd.	From Box 7568 (served) to Oneota	15	1.00	264,000.00	Melbourne	50	15.00	15.00	do not count mailbox cluster
Bakerfield Rd.	Off of Boone Smith Rd.	21	0.90	237,600.00	Unincorporated	50	23.33	14.71	depend on Lees, Kenton Station, Pleasant Ridge and Boone Smith
Boone Smith Rd.	From Pleasant Rdg Rd to Bakerfield Rd	3	0.20	52,800.00	Unincorporated	50	15.00	14.71	depend on Lees, Kenton Station and Pleasant Ridge
Boone Smith Rd.	From Bakerfield Rd.to PCWD end of line (#672)	12	0.70	184,800.00	Unincorporated	50	17.14	14.71	depend on Lees, Kenton Station and Pleasant Ridge
Clay Rdg. Rd.	From Wolf Rd. to Pleasant Rdg Rd.	9	0.60	158,400.00	Unincorporated	50	15.00	14.71	depend on Lees, Kenton Station, Pleasant Ridge, Boone Smith and Bakersfield
Clay Rdg. Rd.	From Pleasant Rdg Rd. to Morningview Rd	12	0.80	211,200.00	Unincorporated	50	15.00	14.71	depend on Lees, Kenton Station, Pleasant Ridge, Boone Smith and Bakersfield
Kenton Station Rd.	From Lees to Pleasant Rdg. Rd.	9	0.90	237,600.00	Unincorporated	50	10.00	14.71	depends on Lees
Lees Road	From Harrisburg Hill Rd. to Kenton Station	3	0.40	105,600.00	Unincorporated	50	7.50	14.71	depends on Lees Road
Pleasant Rdg. Rd.	From Boone Smith Road to Clay Rdg. Rd.	19	1.30	343,200.00	Unincorporated	50	14.62	14.71	depend on Lees, Kenton Station, Pleasant Ridge, Boone Smith and Bakersfield
Pleasant Rdg. Rd.	From Kenton Station Rd. to Boone Smith Road	6	0.60	158,400.00	Unincorporated	50	10.00	14.71	depend on Lees and Kenton Station
Wolf Road	From Clay Rdg. Rd. to end of road	9	0.60	158,400.00	Unincorporated	50	15.00	14.71	depends on Clay Ridge, Pleasant Ridge, Kenton Station, Lees, Boone Smith, Bakersfield
Pond Creek Road	From Visalia Rd. to #11707	31	2.00	528,000.00	Unincorporated	50	15.50	14.55	depends on Visalia Road
Visalia Road	Pleasant Ridge to Pond Creek	17	1.30	343,200.00	Unincorporated	50	13.08	14.55	
Fender Rd.	From #3186 to Ten Mile	13	0.90	285,120.00	Melbourne	60	14.44	14.44	
Murnan	Hidden Valley to D.E.	10	0.70	221,760.00	Unincorporated	60	14.29	14.29	
Upper Lick Branch Rd.	From driveway past #2274 to AA Hwy	5	0.35	110,880.00	Unincorporated	60	14.29	14.29	depends on Upper Lick Branch
Washington Tr.Rd.South End	End of 3" line #10998 to #11360	10	0.70	221,760.00	California/Uninc	60	14.29	14.29	#11143 and #11070 have spiderlines
Wesley Chapel Rd.	From #12630 to Flagg Springs Pike (Route 10)	7	0.50	135,088.80	Unincorporated	51.17	14.00	14.00	depends on wesley chapel, emergency interconnect to East Pendleton Cty Water Distr
Pleasant Rdg. Rd.	From Lees Rd. to Harrisburg Hill Rd.	15	1.10	348,480.00	Unincorporated	60	13.64	13.64	depends on pleasant ridge from Subdistrict J
Reis Lane (Decker Rd.)	Reis Ridge (Decker) to Dead end	9	0.30	95,040.00	Unincorporated	60	30.00	13.57	depends on shaw goetz
Reis Ridge	From Shaw Goetz to Reis Lane (Decker Rd)	9	0.50	158,400.00	Unincorporated	60	18.00	13.57	depends on shaw goetz
Reis Ridge	From Reis Lane (Decker Rd) to end of road	11	0.50	158,400.00	Unincorporated	60	22.00	13.57	depends on shaw goetz
Shaw Goetz Rd.	From Reis Ridge Rd. to California Cross Rds.	9	1.80	570,240.00	Unincorporated	60	5.00	13.57	
Shaw Goetz Rd.	From Reis Ridge Rd. to Flagg Springs Pike (Rt 10)	19	1.10	348,480.00	Unincorporated	60	17.27	13.57	
Yelton Hill Road	From Rt. 154 to Plum Creek	8	0.60	174,240.00	Unincorporated	55	13.33	13.33	PCWD
Lower Grandview Rd.	from Stone House to dead end	4	0.30	95,040.00	Unincorporated	60	13.33	13.33	

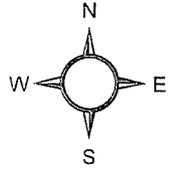
Gunkle Rd. (Gunkle #1)	Mystic Rose to dead end	8	0.60	190,080.00	Melbourne	60	13.33	13.33		0
California Cross Rds.	From Bezold Rd to #2038	6	0.45	142,560.00	California/Uninc	60	13.33	12.90	depends on bezold road	
Fisher Rd	From Wish Rd. to Haubner Rd.	11	1.00	316,800.00	Unincorporated	60	11.00	12.90	depends on sub P, Bezold and Fischer	
Fisher Rd	From Bezold Rd to Wish Rd.	2	0.25	79,200.00	Unincorporated	60	8.00	12.90	depends on sub P, Bezold Road	
Haubner Rd.	from Fischer to dead end	12	0.80	253,440.00	Unincorporated	60	15.00	12.90	Wish/Haubner depend on Fischer	
Wish Rd.	From Fischer to dead end	9	0.60	190,080.00	Unincorporated	60	15.00	12.90	Wish/Haubner depend on Fischer and Bezold	
Nagel Rd.	From Ridge View Estates to Hissern Rd.	9	0.70	221,760.00	Unincorporated	60	12.86	12.86	PCWD	
Aulick Rd.	From End of PCVD service Area to Munn Rd.	9	0.70	221,760.00	Unincorporated	60	12.86	12.86	PCWD	
Vineyard (Gunkle Rd. #3)	From Ten Mile (#5752) to/Inc #6555	9	0.65	205,920.00	Melbourne	60	13.85	13.85		0
Blue Sky Lane	Poplar Thicket to Dead End	2	0.15	47,520.00	Unincorporated	60	13.33	12.65	depends on poplar thicket	
Poplar Thicket Rd.	#466 to Dead End	18	1.30	411,840.00	Unincorporated	60	13.85	12.65	depends on poplar thicket	
Poplar Thicket Rd.	Licking Pike to/Inc. #446	11	1.00	316,800.00	Unincorporated	60	11.00	12.65	#497, 667 and 676 are served	
RT.8	From end of line at #7610 (served) to Oneonta Rd.	5	0.40	126,720.00	California/Uninc	60	12.50	12.50		0
Bezold Rd.	From Burns Rd to California Cr. Rds.	12	1.00	316,800.00	Unincorporated	60	12.00	12.00		0
Burns Rd.	from Flatwoods Rd. to Bezold Rd.	14	1.20	380,160.00	Unincorporated	60	11.67	11.67	#11641, #11723 served	
Wagoner (Dead Timber Rd. #2)	from #2108 end of line To Newberry (Wagner)	7	0.60	190,080.00	Alexandria	60	11.67	11.67		0
Bob-White Lane	Bob-White Lane	8	0.70	221,760.00	Unincorporated	60	11.43	11.43		0
Oneonta Rd.	From Rt.8 to Truesdale	9	0.80	253,440.00	California/Uninc	60	11.25	11.25	depends on Rt 8 or Truesdale	
Fisher Rd	From Haubner Rd. to #13634	15	1.40	443,520.00	Unincorporated	60	10.71	11.18	depends on sub u, Bezold and Fischer	
Newkirk Road	From Fischer to Peach Grove Road (KY 154)	4	0.30	95,040.00	Unincorporated	60	13.33	11.18	PCWD	
Tippenhauer Rd.	From #7217 (211) to end of road	15	1.40	443,520.00	Cold Spring	60	10.71	10.71		0
Rifle Range Rd.	From bridge to end of road	20	1.90	601,920.00	Unincorporated	60	10.53	10.53	depends on Rifle Range Road	
Decker Rd.	from Bezold Rd. to dead end	2	0.20	63,360.00	Unincorporated	60	10.00	10.00	depends on bezold road	
Enzweiler Road	From #124 to dead end - East of AA hwy	4	0.40	126,720.00	Alexandria	60	10.00	10.00	depends on Enzweiler or AA hwy project	
Kennedy	From Flaig Sprngs to dead end	2	0.20	63,360.00	Unincorporated	60	10.00	10.00		0
Losey Rd.	Licking Pike to #901	3	0.30	95,040.00	Unincorporated	60	10.00	10.00		0
Oneonta Rd.	From Truesdale to Washington Tr. Rd.	7	0.70	221,760.00	Unincorporated	60	10.00	10.00		0
Koehler Rd	From Calif. Cr. Rds. to Flagg Springs (Route 10)	9	0.90	285,120.00	California/Uninc	60	10.00	10.00		0
A.A.Hwy	Carthage Road to Country Lake	1	0.60	190,080.00	Wil/Cld Sprng/Ale	60	1.67	10.00		0
Country Lake	AA Highway to dead end	6	0.10	31,680.00	California/Uninc	60	60.00	10.00	depends on AA hwy	
John Miller	From #9807 to dead end	4	0.41	156,880.00	Unincorporated	60	9.76	9.76	depends on creek trace	
Hissern Rd.	From Fairlane to Nagel	8	0.90	285,120.00	Unincorporated	60	8.89	8.89	PCWD	
Neises	From Rt.8 to dead end	5	0.20	63,360.00	Unincorporated	60	25.00	8.68	depends on Rt. 8	
Painter Rd	From #3735 to Route 8	9	0.85	269,280.00	California/Uninc	60	10.59	8.68	depends on Rt. 8	
Rt.8	Oneonta to Painter Rd.	9	1.60	506,880.00	California/Uninc	60	5.63	8.68	depends on sub s, Rt. 8	
Burger Road	Vineyard Rd. to dead end	5	0.60	190,080.00	Unincorporated	60	8.33	8.33	depends on Vineyard Road	
Morningview Rd.	Clay Ridge to dead end.	15	1.80	570,240.00	Unincorporated	60	8.33	8.33	depends on Clay Ridge, Pleasant Ridge, Kenton Station, Lees and Harrisburg Hill	
Aulick Rd.	From Munn Rd. to Demossville Rd.	3	0.40	126,720.00	Unincorporated	60	7.50	7.50	PCWD	
Branch Lick (Lower Lick Branch)	from Stone House to dead end	6	0.80	253,440.00	Unincorporated	60	7.50	7.50		0
Pond Creek Road	From #11707 to Kenton station Rd.	9	1.20	380,160.00	Unincorporated	60	7.50	7.50	depends on Pond Creek and Creek Trace	
Clay Rdg. Rd.	From Morningview Rd. Griffen Fords Rd.	5	0.70	221,760.00	Unincorporated	60	7.14	7.14	depends on pleasant ridge, kenton station, lees, Harrisburg Hill or Pendelton County	
RT.8	End of existing line (#11927) to county line	7	1.00	316,800.00	Mentor	60	7.00	7.00		0
California Cross Rds.	From Washington Tr.Rd. to #3765	4	0.60	190,080.00	Calif.(Residents &	60	6.67	6.67	#3765 is served	
Pond Creek Road	From #10365 to Visalia Rd.	2	0.32	101,376.00	Unincorporated	60	6.25	6.25	depends on Creek Trace	
Daniels Rd.	From #3185 to Flagg Sprngs Pike (Route 10)	5	1.10	348,480.00	Unincorporated	60	4.55	6.11	Depends on Daniels, Schababerly Hill and Wesley Chapel	
Flagg Springs (Route 10)	From Daniels Road to Pendelton Co. Line	4	0.60	190,080.00	Unincorporated	60	6.67	6.11	depends on sub J & N, Daniels, Schababerly Hill and Wesley Chapel	
Kennedy	From Daniels to dead end	2	0.10	31,680.00	Unincorporated	60	20.00	6.11	Depends on Daniels	
Dead Timber	Washington Trace to dead end	4	0.70	221,760.00	Unincorporated	60	5.71	5.71	#3514, #3516 are served	
Wagoner (Dead Timber Rd. #2)	From Newberry Road (Dead Timber Rd.) to Picnic	9	1.70	538,560.00	California/Uninc	60	5.29	5.29		0
California Cross Rds.	From Shaw Goetz Rd. to #2038	3	0.60	190,080.00	California/Uninc	60	5.00	5.00		0
Hissern Rd.	From Fairlane to County Line	2	0.40	126,720.00	Unincorporated	60	5.00	5.00	PCWD	
Newberry (Dead Timber Rd #2)	from Wagner Rd. To end of road	3	0.60	190,080.00	California/Uninc	60	5.00	5.00	depends on Wagoner Road	
Wolf Road	From Kenton Station Rd. to Clay Rdg. Rd.	7	1.40	443,520.00	Unincorporated	60	5.00	5.00	depends on sub p, Clay Ridge, Pleasant Ridge, Kenton Station, Lees and Harrisburg Hill	
Tarvin Rd. (Schmudde)	From Phillips Creek Rd. (Schmudde) to Licking Pike	3	0.70	221,760.00	Unincorporated	60	4.29	4.29		0
Owl Creek Rd.	Owl Creek Rd.	5	1.20	380,160.00	Silver Grove	60	4.17	4.17		0
Flatwoods Rd	From Race Track Rd. to Burns Rd	6	1.50	475,200.00	Unincorporated	60	4.00	4.00	depends on Flatwoods/Siry project	
Ky. State Route 154	From Burns to PCVD Service area. (12940,12939 served)	4	1.00	316,800.00	Unincorporated	60	4.00	4.00	depend on flatwood/siry project and Burns Rd	
Phillips Cr. Rd. (Schmudde)	Box 11053 to Tarvin Road	4	1.00	316,800.00	Unincorporated	60	4.00	4.00		0
Pleasant Rdg. Rd.	From Harrisburg Hill Rd. to Kenton Station Rd.	4	1.00	264,000.00	Unincorporated	50	4.00	4.00	depend on Pleasant Ridge	
Tarvin Rd. (Schmudde)	From Lees Rd to Phillips Creek Rd. (Schmudde)	2	0.50	158,400.00	Unincorporated	60	4.00	4.00	depends on Lees, Tarvin	
US 27	Cooper Funeral Home to CC Small Engine	1	0.30	95,040.00	Unincorporated	60	3.33	3.33		0
Vineyard (Gunkle Rd. #3)	From #6555 to #6436 (to end of line)	1	0.30	95,040.00	Melbourne	60	3.33	3.33		0
Kenton Station Rd.	From Pleasant Rdg. Rd. to Pond Cr.Rd.	3	1.00	316,800.00	Unincorporated	60	3.00	3.00	depends on sub L & P, Kenton Station, Lees, Harrisburg Hill, Pleasant Ridge	
Schababerly Hill	From Daniels Rd. to Flagg Sprngs Pike (Route 10)	4	1.40	443,520.00	Unincorporated	60	2.86	2.86		0
3 Mile Road	Gibson Road to Tessner (#97, 99 are not served)	2	0.70	221,760.00	Wilder	60	2.86	2.86		0
Lick Hill	Washington Trace to dead end	1	0.45	142,560.00	California/Uninc	60	2.22	2.22	start at Washington Trace, part of Lick Hill is served w/3" plastic	
A.A.Hwy	Smith Road to East California Cross Roads	5	2.40	760,320.00	Unincorporated	60	2.08	2.08		0
RT.8	From #145 (anchor inn) to Tower Hill	1	0.80	253,440.00	Dayton/Ft. Thom	60	1.25	2.08		0
RT.8	Tower Hill to #617	4	1.60	506,880.00	Ft. Thomas	60	2.50	2.08	depends on sub n, Tower Hill	
Flagg Springs (Route 10)	From Short Cut Rd. to Daniels	1	0.50	158,400.00	Unincorporated	60	2.00	2.00		0
A.A.Hwy	East California Cross Roads to Carthage Rd.	3	1.90	601,920.00	Unincorporated	60	1.58	1.58		0
A.A.Hwy	Country Lake to Stonehouse	2	1.30	411,840.00	Wil/Cld Sprng/Ale	60	1.54	1.54	depends on stonehouse rd project or country lake project	
Painter Rd	From Washington Tr. Rd to #3735	1	0.65	205,920.00	California/Uninc	60	1.54	1.54		0
Gubser Mill Road	California Cross Road to dead end	1	0.80	253,440.00	California/Uninc	60	1.25	1.25		0
US 27	CC Small Engine to south Licking pike	1	0.95	300,960.00	Unincorporated	60	1.05	1.05		0
RT.8	New Richmond Road to #10110 (south) D.E. of 3"	1	1.40	443,520.00	Unincorporated	60	0.71	0.71	#9670 not served	
A.A.Hwy	Stonehouse Rd to 4 Mile Pike	1	2.20	696,960.00	Wil/Cld Sprng/Ale	60	0.45	0.45		0
A.A.Hwy	Ripple Creek Pump Station to Murnan Road (overpass)	0	0.80	253,440.00	Wil/Cld Sprng/Ale	60	0.00	0.00	depends on 24" AA hwy project	

A.A.Hwy	Dry Creek to Ivy Ridge	0	1.00	316,800.00	Cold Spring	60	0.00	0.00		0
A.A.Hwy	Pendleton Cnty line to Smith Road	0	1.80	570,240.00	Unincorporated	60	0.00	0.00		0
Creektrace Rd. (KY Rt. 536)	From U.S. 27 to Licking Pike	0	0.80	249,680.64	Unincorporated	59.11	0.00	0.00	interconnect	0
Licking Pike	Banklick to 0.9 miles north (St. John's Church)	0	0.90	285,120.00	Wilder	60	0.00	0.00		0
Licking Pike	From end of line at Tipphauer to Murnan Rd	0	0.50	158,400.00	Unincorporated	60	0.00	0.00		0
Losey Rd.	#901 to #812	0	0.40	126,720.00	Unincorporated	60	0.00	0.00		0
Low Gap Rd	From #878 to Tollgate (Alex-Licking Pike)	0	0.30	95,040.00	Unincorporated	60	0.00	0.00	interconnect	0
River Road	Last house to Rt. 8	0	0.50	158,400.00	Ft. Thomas	60	0.00	0.00	interconnect	0
Rt.8	#617 to River Road	0	1.30	411,840.00	Ft. Thomas	60	0.00	0.00	depends on sub N & Z, Rt.8 and Tower Hill	
Rt.8	River Rd. to Blangey Rd.	0	0.30	95,040.00	Brent	60	0.00	0.00		0
Shaw-Hess Rd	From #10280 to Persimmon Gr. Pk.	0	0.45	142,560.00	Unincorporated	60	0.00	0.00	interconnect	0
Ten Mile Road	Ritter to 2802 Ten Mile Rd. (Schack farm)	0	0.50	158,400.00	Unincorporated	60	0.00	0.00		0
West Main Street (Alex.)	1/2 mile from city building towards Licking Pike	0	0.50	158,400.00	Alexandria	60	0.00	0.00		0
Total		1244	120.77	37,374,520.77						0

**Combined Streets**

Pleasant Rdg. Rd./Lees/Harnsburg Hill	PR #11138 to Lees, Lees to Hrrsbrg Hill to d.e.	57	3.50	1,108,800.00	Unincorporated	60	16.29	16.29	depends on Pleasant Ridge subdistrict F	
Poplar Thicket Rd./Blue Sky	Licking Pike to Dead End	31	2.45	776,160.00	Unincorporated	60	12.65	12.65	Blue Sky depends on Poplar Thicket	
Rt.8/Neises/Painter Rd	Oneonta to #3735 Painter Rd.	23	2.65	839,520.00	California/Uninco	60	8.68	8.68	depends on sub s	
Shaw Goetz Rd./Reis Ridge/Reis Lane	From California X-Roads to Reis Ridge incl Reis Lane Fischer From Bezold to Fischer/Haubner incl	57	4.20	1,330,560.00	Unincorporated	60	13.57	13.57		0
Fisher/Wish/Haubner	Wish/Haubner	34	2.65	839,520.00	Unincorporated	60	12.83	12.83	Wish/Haubner depend on Fischer	
Country Lake/AA Highway	AA Highway to dead end, Carthage Rd to Country Lake From #3185 to Flagg Springs, Kennedy to d.e., Flagg	7	0.70	221,760.00	California/Uninco	60	10.00	10.00		0
Daniels Rd./ Kennedy Road/Flagg Springs	Springs to PC Line	11	1.80	570,240.00	Unincorporated	60	6.11	6.11	Depends on Daniels	
Visalia Road/Pond Creek	Pleasant Ridge to #11707 Pond Creek	48	3.30	1,045,440.00	Unincorporated	60	14.55	14.55	Pond Creek is dependent upon Visalia	
Lees, Kenton Station, Pleasant Ridge, Boone-Smith, Bakersfield, Clay Ridge, Wolf	From Harnsburg Hill to clay Ridge including Bakerfield and Boone-Smith	103	7.00	2,217,600.00	Unincorporated	60	14.71	14.71	depends on Harnsburg Hill or Lees Rd	
California Cross Roads, Fischer, Wish, Haubner	From Bezold to Dead end of Haubner	17	3.10	982,080.00	Unincorporated	60	5.48	5.48	depends on Bezold	
Rt. 8	From #145 Rt. 8 (anchor inn) to #617 Rt. 8	5	2.40	760,320.00	Unincorporated	60	2.08	2.08		0
<b>Private Streets</b>										
Anderson Trace	Barrs Branch to D.E.	4	0.45	142,560.00	Alexandria	60	8.89	8.89	9865, 9851, 9853, 9859 Barrs Branch address, inc on Barrs Branch count	
Hidden Valley	from Murnan to dead end	13	1.00	369,600.00	Unincorporated	60	13.00	13.00	depends on Murnan, gravel, mail boxes top of street	
Kappas Drive	Lauren to Dead End	8	0.40	147,840.00	Unincorporated	60	20.00	20.00	depends on sub h	
Lois	Mary Ingles to Dead End	2	0.10	36,960.00	Silver Grove	60	20.00	20.00		0

# Northern Kentucky Water District



Subdistrict H - Campbell County