

# Rubin & Hays

ATTORNEYS AT LAW

Kentucky Home Trust Building, 450 South Third Street, Louisville, Kentucky 40202-1410  
Telephone (502) 569-7525 Telefax (502) 569-7555 www.rubinhays.com

CHARLES S. MUSSON  
W. RANDALL JONES  
CHRISTIAN L. JUCKETT

July 10, 2008

RECEIVED

JUL 14 2008

PUBLIC SERVICE  
COMMISSION

Ms. Stephanie Stumbo  
Executive Director  
Kentucky Public Service Commission  
P.O. Box 615  
Frankfort, Kentucky 40602

Re: North Logan Water District - Kentucky Public Service Commission Application for  
a CPCN for a Water System Improvements Project

2008-00271

Dear Ms. Stumbo:

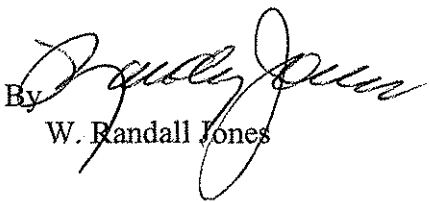
Enclosed please find the original and ten (10) copies of the Application of the North Logan Water District for a Certificate of Public Convenience and Necessity to construct a water system improvements project pursuant to KRS Chapter 278.

Also enclosed are eleven (11) copies of the exhibits required, with the exception of the Plans and Specifications, prepared by McGhee Engineering, Inc., on the Project, two of which are being forwarded by said Engineers.

Sincerely,

Rubin & Hays

By

  
W. Randall Jones

WRJ:jlm  
Enclosures

cc: Mr. Smokey Smotherman, NLWD  
Chris Wilcutt, P.E., McGhee Engineering

COMMONWEALTH OF KENTUCKY  
BEFORE THE PUBLIC SERVICE COMMISSION

RECEIVED  
JUL 14 2008  
PUBLIC SERVICE  
COMMISSION

In the matter of:

APPLICATION OF THE NORTH LOGAN )  
WATER DISTRICT FOR A CERTIFICATE )  
OF PUBLIC CONVENIENCE AND NECESSITY TO )  
CONSTRUCT A WATERWORKS IMPROVEMENTS )  
PROJECT PURSUANT TO KRS 278.020 )

Case No. 2008- 00271

APPLICATION

The North Logan Water District (the "District"), by counsel, pursuant to KRS 278.020, petitions the Commission for a certificate of public convenience and necessity to construct a waterworks improvement project. The following information is filed in accordance with the Commission's regulations:

1. The District's office address is 3118 Lewisburg Road, Russellville, Kentucky 42276. Its principal officers are listed in its 2007 Annual Report, which is on file with the Commission;
2. The District is a non-profit water district organized under KRS Chapter 74 and has no separate articles of incorporation or by-laws;
3. A description of the District's water system and its property stated at original cost by accounts is contained in its 2007 Annual Report, which is incorporated by reference pursuant to 807 KAR 5:001 Section (5)(5). All required normal financial schedules and other data are in the Annual Report;
4. The Rockwell Water Project (the "Project") consists of the replacement of approximately 17,000 linear feet of water line along Ky Highway 3519 and US Highway 431, between the cities of Russellville and Lewisburg;

5. The Project is in the public interest and will benefit the entire water system as it replaces the remaining sections of known troublesome water lines which currently consist of grey, irrigation-like pipe material;

6. The total project cost is approximately \$437,500, as forth in the Final Project Budget attached hereto as **Exhibit "A"**;

7. The District has obtained all of the easements for the Project;

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

9. Based on these facts, the District believes that it is in the public interest that this certificate be granted and that the plan of financing be authorized;

10. Copies of the certified bid tabulations are attached hereto as **Exhibit "B"**;

11. The following information is provided in response to 807 KAR 5:001 Section (8)(3);

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

12. The following information is supplied to 807 KAR 5:001 Section (9)(2);

a. Facts relied upon to show that the Project is in the public interest: See paragraph #5 above;

b. No new franchises are required. Copies of the permits are attached hereto as **Exhibit "C"**;

c. Diagrams of the proposed construction and construction specifications are contained in the Plans and Specifications on file with the Commission;

d. Three (3) maps of suitable scale showing location of the proposed facilities are attached hereto;

e. The Project costs will be funded from the proceeds of settlement funds received from the recent Rockwell vs. Commonwealth of Kentucky litigation. The District will not borrow any funds for Project costs;


f. The estimated cost of operation of the system after Project completion is attached hereto as **Exhibit "D"**;

**WHEREFORE**, the Applicant, North Logan Water District requests that the Public Service Commission of Kentucky grant to the Applicant a certificate of public convenience and necessity permitting the Applicant to construct a water system improvement project.

North Logan Water District

By   
Chairman

Rubin & Hays

By   
W. Randall Jones  
Kentucky Home Trust Building  
450 South Third Street  
Louisville, Kentucky 40202  
(502) 569-7525





**Project Budget**

Item	Quantity	Units	Unit Price	Total
<b>Construction Budget (As-Bid)</b>				
6" Class 200 PVC Waterline	16,798	LF	\$ 7.30	\$ 122,625
6" Class 350 DIP Waterline	200	LF	\$ 21.50	\$ 4,300
4" Class 200 PVC Waterline	130	LF	\$ 4.65	\$ 605
2" Yelomine PVC Waterline	80	LF	\$ 8.50	\$ 680
Steel Cased Highway Bore (10"cs/6" cr)	200	LF	\$ 120.00	\$ 24,000
Steel Cased Highway Bore (8"cs/4" cr)	70	LF	\$ 100.00	\$ 7,000
Steel Cased Open Cut (4"cs/2" cr)	50	LF	\$ 65.00	\$ 3,250
6" Carrier in Existing 10" Casing	80	LF	\$ 35.00	\$ 2,800
Uncased Driveway Bore	236	LF	\$ 40.00	\$ 9,440
Large Flush Hydrant & Valve	3	EA	\$ 2,700.00	\$ 8,100
Small Flush Hydrant & Valve	1	EA	\$ 2,400.00	\$ 2,400
Reinstall Existing Hydrant	1	EA	\$ 2,450.00	\$ 2,450
8"x6" Tapping Sleeve & Valve	1	EA	\$ 2,550.00	\$ 2,550
6"x6" Tapping Sleeve & Valve	4	EA	\$ 1,500.00	\$ 6,000
6" Gate Valve & Box	11	EA	\$ 740.00	\$ 8,140
4" Gate Valve & Box	3	EA	\$ 900.00	\$ 2,700
3" Gate Valve & Box	3	EA	\$ 850.00	\$ 2,550
2" Brass Shutoff & Box	5	EA	\$ 450.00	\$ 2,250
Plug & Cap Existing Waterline	7	EA	\$ 400.00	\$ 2,800
Remove Flush & Connect to 6" Line	5	EA	\$ 350.00	\$ 1,750
Remove Flush & Connect to 4" Line	2	EA	\$ 250.00	\$ 500
Remove Flush & Connect to 3" Line	3	EA	\$ 200.00	\$ 600
Remove Flush & Connect to 2" Line	5	EA	\$ 200.00	\$ 1,000
Terminate Existing 2" Waterline	1	EA	\$ 350.00	\$ 350
Reconnect Meter 3/4" Near Side	43	EA	\$ 250.00	\$ 10,750
Reconnect Meter 3/4" Far Side Splice	2	EA	\$ 800.00	\$ 1,600
New Meter 3/4" Far Side	8	EA	\$ 475.00	\$ 3,800
Relocate Existing Near Side Meter	4	EA	\$ 300.00	\$ 1,200
Reconnect Existing 1" Service Line	7	EA	\$ 400.00	\$ 2,800
1 1/2" Class 200 PVC Casing Pipe	250	LF	\$ 5.50	\$ 1,375
1" Class 200 PE CTS Service Line	400	LF	\$ 4.50	\$ 1,800
3/4" Class 20 PE CTS Service Line	190	LF	\$ 4.50	\$ 855
3/4" Schedule 40 PVC Pipe	1,000	LF	\$ 4.50	\$ 4,500
Connection to Existing Resident Line	8	EA	\$ 700.00	\$ 5,600
Removal of Existing Appurtenances	1	LS	\$ 450.00	\$ 450
<b>SUBTOTAL - Construction (Contract 1)</b>				<b>\$ 253,570</b>
<b>Non-Construction Items</b>				
Administrative Expenses				\$ 2,500
Legal Costs				\$ 5,000
Preliminary Engineering				\$ 12,500
Design Engineering				\$ 27,000
Construction Phase Engineering Services				\$ 11,500
Construction Inspection				\$ 29,000
<b>SUBTOTAL - Non-Construction</b>				<b>\$ 87,500</b>
Contingency				\$ 96,430
<b>TOTAL ESTIMATED PROJECT COST</b>				<b>\$ 437,500</b>
<b>Project Funding Sources</b>				
Rockwell Settlement Funds				\$ 437,500





**North Logan Water District  
Rockwell Water Project - Contract 1**

**TABULATION OF BIDS**

Bids Received: June 30, 2008 @ 2:00 p.m.

No.	BASE BID ITEMS	QUANTITY	Trinity Contracting Bowling Green, KY		Garrison Construction Greensburg, KY		Poppy Excavation Park City, KY		Southern Kentucky Const. Tompkinsville, KY		Cleary Construction Tompkinsville, KY		Bobby Luttrell & Sons Olaton, KY	
			UNIT \$	TOTAL	UNIT \$	TOTAL	UNIT \$	TOTAL	UNIT \$	TOTAL	UNIT \$	TOTAL	UNIT \$	TOTAL
01	6" Class 200 PVC Waterline	16,798 LF	\$ 7.30	\$ 122,625.40	\$ 8.40	\$ 141,103.20	\$ 10.00	\$ 167,980.00	\$ 8.43	\$ 141,607.14	\$ 10.30	\$ 173,019.40	\$ 13.25	\$ 222,573.50
02	6" Class 350 DIP Waterline	200 LF	\$ 21.50	\$ 4,300.00	\$ 21.80	\$ 4,360.00	\$ 27.00	\$ 5,400.00	\$ 23.00	\$ 4,600.00	\$ 24.00	\$ 4,800.00	\$ 30.00	\$ 6,000.00
03	4" Class 200 PVC Waterline	130 LF	\$ 4.65	\$ 604.50	\$ 6.00	\$ 780.00	\$ 6.50	\$ 845.00	\$ 6.16	\$ 800.80	\$ 7.50	\$ 975.00	\$ 10.00	\$ 1,300.00
04	2" Yelomine PVC Waterline	80 LF	\$ 8.50	\$ 680.00	\$ 7.60	\$ 608.00	\$ 6.50	\$ 520.00	\$ 8.18	\$ 654.40	\$ 6.00	\$ 480.00	\$ 7.50	\$ 600.00
05	Steel Cased Highway Bore (10"cs/6" cr)	200 LF	\$ 120.00	\$ 24,000.00	\$ 112.00	\$ 22,400.00	\$ 100.00	\$ 20,000.00	\$ 105.00	\$ 21,000.00	\$ 88.00	\$ 17,600.00	\$ 110.00	\$ 22,000.00
06	Steel Cased Highway Bore (8"cs/4" cr)	70 LF	\$ 100.00	\$ 7,000.00	\$ 105.00	\$ 7,350.00	\$ 95.00	\$ 6,650.00	\$ 100.00	\$ 7,000.00	\$ 74.00	\$ 5,180.00	\$ 110.00	\$ 7,700.00
07	Steel Cased Open Cut (4"cs/2"cr)	50 LF	\$ 65.00	\$ 3,250.00	\$ 90.00	\$ 4,500.00	\$ 90.00	\$ 4,500.00	\$ 75.00	\$ 3,750.00	\$ 45.00	\$ 2,250.00	\$ 110.00	\$ 5,500.00
08	6" Carrier in Existing 10" Casing	80 LF	\$ 35.00	\$ 2,800.00	\$ 16.50	\$ 1,320.00	\$ 9.00	\$ 720.00	\$ 15.00	\$ 1,200.00	\$ 42.00	\$ 3,360.00	\$ 30.00	\$ 2,400.00
09	Uncased Driveway Bore	236 LF	\$ 40.00	\$ 9,440.00	\$ 45.00	\$ 10,620.00	\$ 50.00	\$ 11,800.00	\$ 40.00	\$ 9,440.00	\$ 35.00	\$ 8,260.00	\$ 50.00	\$ 11,800.00
10	Large Flush Hydrant & Valve	3 EA	\$ 2,700.00	\$ 8,100.00	\$ 2,780.00	\$ 8,340.00	\$ 2,400.00	\$ 7,200.00	\$ 2,933.42	\$ 8,800.26	\$ 3,000.00	\$ 9,000.00	\$ 3,200.00	\$ 9,600.00
11	Small Flush Hydrant & Valve	1 EA	\$ 2,400.00	\$ 2,400.00	\$ 1,470.00	\$ 1,470.00	\$ 1,400.00	\$ 1,400.00	\$ 2,758.47	\$ 2,758.47	\$ 1,400.00	\$ 1,400.00	\$ 1,900.00	\$ 1,900.00
12	Reinstall Existing Hydrant	1 EA	\$ 2,450.00	\$ 2,450.00	\$ 360.00	\$ 360.00	\$ 2,400.00	\$ 2,400.00	\$ 1,406.00	\$ 1,406.00	\$ 1,800.00	\$ 1,800.00	\$ 2,000.00	\$ 2,000.00
13	8"x8" Tapping Sleeve & Valve	1 EA	\$ 2,550.00	\$ 2,550.00	\$ 1,950.00	\$ 1,950.00	\$ 1,750.00	\$ 1,750.00	\$ 1,771.48	\$ 1,771.48	\$ 2,200.00	\$ 2,200.00	\$ 1,700.00	\$ 1,700.00
14	6"x6" Tapping Sleeve & Valve	4 EA	\$ 1,500.00	\$ 6,000.00	\$ 1,890.00	\$ 7,560.00	\$ 1,750.00	\$ 7,000.00	\$ 1,770.00	\$ 7,080.00	\$ 2,100.00	\$ 8,400.00	\$ 1,600.00	\$ 6,400.00
15	6" Gate Valve & Box	11 EA	\$ 740.00	\$ 8,140.00	\$ 745.00	\$ 8,195.00	\$ 700.00	\$ 7,700.00	\$ 695.00	\$ 7,645.00	\$ 725.00	\$ 7,975.00	\$ 700.00	\$ 7,700.00
16	4" Gate Valve & Box	3 EA	\$ 900.00	\$ 2,700.00	\$ 610.00	\$ 1,830.00	\$ 600.00	\$ 1,800.00	\$ 600.00	\$ 1,800.00	\$ 600.00	\$ 1,800.00	\$ 550.00	\$ 1,650.00
17	3" Gate Valve & Box	3 EA	\$ 850.00	\$ 2,550.00	\$ 555.00	\$ 1,665.00	\$ 550.00	\$ 1,650.00	\$ 543.00	\$ 1,629.00	\$ 530.00	\$ 1,590.00	\$ 500.00	\$ 1,500.00
18	2" Brass Shutoff & Box	5 EA	\$ 450.00	\$ 2,250.00	\$ 585.00	\$ 2,925.00	\$ 450.00	\$ 2,250.00	\$ 600.00	\$ 3,000.00	\$ 515.00	\$ 2,575.00	\$ 800.00	\$ 4,000.00
19	Plug & Cap Existing Waterline	7 EA	\$ 400.00	\$ 2,800.00	\$ 285.00	\$ 1,995.00	\$ 50.00	\$ 350.00	\$ 600.00	\$ 4,200.00	\$ 653.00	\$ 4,571.00	\$ 500.00	\$ 3,500.00
20	Remove Flush & Connect to 6" Line	5 EA	\$ 350.00	\$ 1,750.00	\$ 550.00	\$ 2,750.00	\$ 400.00	\$ 2,000.00	\$ 900.00	\$ 4,500.00	\$ 912.00	\$ 4,560.00	\$ 750.00	\$ 3,750.00
21	Remove Flush & Connect to 4" Line	2 EA	\$ 250.00	\$ 500.00	\$ 500.00	\$ 1,000.00	\$ 300.00	\$ 600.00	\$ 800.00	\$ 1,600.00	\$ 700.00	\$ 1,400.00	\$ 750.00	\$ 1,500.00
22	Remove Flush & Connect to 3" Line	3 EA	\$ 200.00	\$ 600.00	\$ 475.00	\$ 1,425.00	\$ 240.00	\$ 720.00	\$ 1,000.00	\$ 3,000.00	\$ 678.76	\$ 2,036.28	\$ 750.00	\$ 2,250.00
23	Remove Flush & Connect to 2" Line	5 EA	\$ 200.00	\$ 1,000.00	\$ 450.00	\$ 2,250.00	\$ 180.00	\$ 900.00	\$ 500.00	\$ 2,500.00	\$ 528.76	\$ 2,643.80	\$ 500.00	\$ 2,500.00
24	Terminate Existing 2" Waterline	1 EA	\$ 350.00	\$ 350.00	\$ 665.00	\$ 665.00	\$ 750.00	\$ 750.00	\$ 500.00	\$ 500.00	\$ 924.00	\$ 924.00	\$ 1,000.00	\$ 1,000.00
25	Reconnect Meter 3/4" Near Side	43 EA	\$ 250.00	\$ 10,750.00	\$ 305.00	\$ 13,115.00	\$ 200.00	\$ 8,600.00	\$ 471.00	\$ 20,253.00	\$ 270.00	\$ 11,610.00	\$ 350.00	\$ 15,050.00
26	Reconnect Meter 3/4" Far Side Splice	2 EA	\$ 800.00	\$ 1,600.00	\$ 325.00	\$ 650.00	\$ 225.00	\$ 450.00	\$ 400.00	\$ 800.00	\$ 600.00	\$ 1,200.00	\$ 350.00	\$ 700.00
27	New Meter 3/4" Far Side	8 EA	\$ 475.00	\$ 3,800.00	\$ 475.00	\$ 3,800.00	\$ 450.00	\$ 3,600.00	\$ 800.00	\$ 6,400.00	\$ 833.00	\$ 6,664.00	\$ 600.00	\$ 4,800.00
28	Relocate Existing Near Side Meter	4 EA	\$ 300.00	\$ 1,200.00	\$ 545.00	\$ 2,180.00	\$ 300.00	\$ 1,200.00	\$ 500.00	\$ 2,000.00	\$ 535.00	\$ 2,140.00	\$ 700.00	\$ 2,800.00
29	Reconnect Existing 1" Service Line	7 EA	\$ 400.00	\$ 2,800.00	\$ 420.00	\$ 2,940.00	\$ 250.00	\$ 1,750.00	\$ 600.00	\$ 4,200.00	\$ 334.80	\$ 2,343.60	\$ 500.00	\$ 3,500.00
30	1 1/2" Class 200 PVC Casing Pipe	250 LF	\$ 5.50	\$ 1,375.00	\$ 20.00	\$ 5,000.00	\$ 4.00	\$ 1,000.00	\$ 10.00	\$ 2,500.00	\$ 13.00	\$ 3,250.00	\$ 15.00	\$ 3,750.00
31	1" Class 200 PE CTS Service Line	400 LF	\$ 4.50	\$ 1,800.00	\$ 4.70	\$ 1,880.00	\$ 3.00	\$ 1,200.00	\$ 3.00	\$ 1,200.00	\$ 4.50	\$ 1,800.00	\$ 10.00	\$ 4,000.00
32	3/4" Class 20 PE CTS Service Line	190 LF	\$ 4.50	\$ 855.00	\$ 4.50	\$ 855.00	\$ 3.00	\$ 570.00	\$ 2.85	\$ 541.50	\$ 4.50	\$ 855.00	\$ 5.00	\$ 950.00
33	3/4" Schedule 40 PVC Pipe	1,000 LF	\$ 4.50	\$ 4,500.00	\$ 4.25	\$ 4,250.00	\$ 3.00	\$ 3,000.00	\$ 5.00	\$ 5,000.00	\$ 4.82	\$ 4,820.00	\$ 5.00	\$ 5,000.00
34	Connection to Existing Resident Line	8 EA	\$ 700.00	\$ 5,600.00	\$ 350.00	\$ 2,800.00	\$ 200.00	\$ 1,600.00	\$ 300.00	\$ 2,400.00	\$ 1,000.00	\$ 8,000.00	\$ 1,000.00	\$ 8,000.00
35	Removal of Existing Appurtenances	1 LS	\$ 450.00	\$ 450.00	\$ 1,500.00	\$ 1,500.00	\$ -	\$ -	\$ 20,000.00	\$ 20,000.00	\$ 1,000.00	\$ 1,000.00	\$ 5,000.00	\$ 5,000.00
<b>Total Amount of Bid</b>			<b>\$ 253,569.90</b>		<b>\$ 276,391.20</b>		<b>\$ 279,855.00</b>		<b>\$ 307,537.05</b>		<b>\$ 312,482.08</b>		<b>\$ 384,373.50</b>	

No.	ALTERNATE BID ITEMS	QUANTITY	UNIT \$	TOTAL	UNIT \$	TOTAL	UNIT \$	TOTAL	UNIT \$	TOTAL	UNIT \$	TOTAL	UNIT \$	TOTAL
A01	Unclassified Undercut	1 CY	\$ 22.00	\$ 22.00	\$ 35.00	\$ 35.00	\$ 350.00	\$ 350.00	\$ 10.00	\$ 10.00	\$ 10.00	\$ 10.00	\$ 10.00	\$ 10.00
A02	No. 57 Aggregate Refill	1 Ton	\$ 18.00	\$ 18.00	\$ 19.50	\$ 19.50	\$ 40.00	\$ 40.00	\$ 20.00	\$ 20.00	\$ 25.00	\$ 25.00	\$ 20.00	\$ 20.00
A03	Class 'B' Concrete Refill	1 CY	\$ 90.00	\$ 90.00	\$ 130.00	\$ 130.00	\$ 150.00	\$ 150.00	\$ 100.00	\$ 100.00	\$ 125.00	\$ 125.00	\$ 150.00	\$ 150.00
A04	Steel Cased Open Cut (10"Ø)	1 LF	\$ 56.00	\$ 56.00	\$ 65.00	\$ 65.00	\$ 75.00	\$ 75.00	\$ 70.00	\$ 70.00	\$ 65.00	\$ 65.00	\$ 75.00	\$ 75.00
A05	New 3/4" Meter Service Near Side	1 EA	\$ 1,050.00	\$ 1,050.00	\$ 580.00	\$ 580.00	\$ 750.00	\$ 750.00	\$ 800.00	\$ 800.00	\$ 600.00	\$ 600.00	\$ 750.00	\$ 750.00
A06	2" Class 200 PE CTS Service Line	1 LF	\$ 7.00	\$ 7.00	\$ 5.60	\$ 5.60	\$ 15.00	\$ 15.00	\$ 10.00	\$ 10.00	\$ 10.00	\$ 10.00	\$ 10.00	\$ 10.00
A07	Air Release Valve	1 EA	\$ 650.00	\$ 650.00	\$ 805.00	\$ 805.00	\$ 450.00	\$ 450.00	\$ 150.00	\$ 150.00	\$ 900.00	\$ 900.00	\$ 750.00	\$ 750.00

Engineer:  
**McGhee Engineering, Inc.**  
P. O. Box 267  
Guthrie, Kentucky 42234  
(270) 483-9985

Owner:  
**North Logan Water District**  
3118 Lewisburg Road  
Russellville, Kentucky 42276  
(270) 725-8050

**Other Bidders**

<i>Twin States Utilities</i> Mt. Hermon, KY	<i>Ernie Davis &amp; Sons</i> Owensboro, KY
Total Bid \$393,852.00	Total Bid \$396,230.30

\* Denotes error in calculation



STEVEN L. BESHEAR  
GOVERNOR



ROBERT D. VANCE  
SECRETARY

**ENVIRONMENTAL AND PUBLIC PROTECTION CABINET**

DEPARTMENT FOR ENVIRONMENTAL PROTECTION

DIVISION OF WATER

14 REILLY ROAD

FRANKFORT, KENTUCKY 40601

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

May 29, 2008

Mr. S C Smotherman, Chariman/Manager  
North Logan Water District  
3118 Lewisburg Rd  
Russellville, KY 42276

RE: North Logan Water District  
AI # 33993, APE20080002  
PWSID # 0710318-08-002  
Rockwell Water Project Contract No.1 WLE  
Logan County, KY

Dear Mr. Smotherman:

We have reviewed the plans and specifications for the above referenced project. The plans include the construction of approximately 14,592 feet of 6-inch PVC, 200 feet of 6-inch DI and 130 feet of 4-inch PVC waterlines. 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 Ms. Sarah Tucker at 502-564-8158 extension 482.

Sincerely,

A handwritten signature in black ink, appearing to read "DMarlin", written over a white background.

for Donna S. Marlin, Manager  
Drinking Water Branch  
Division of Water

MR:ST

Enclosures

C: McGhee Engineering, Inc  
Logan County Health Department  
Public Service Commission

## Distribution-Major Construction

North Logan Water District  
Subject Item Inventory

Activity ID No.: APE20080002

### Subject Item Inventory:

ID	Designation	Description
AIOO33993		
PORT5	Water Line	14,592 feet of 6-inch PVC, 200 feet of 6-inch DI and 130 feet of 4-inch PVC

### Subject Item Groups:

ID	Description	Components
GACT5	14,592 feet of 6-inch PVC, 200 feet of 6-inch DI and 130 feet of 4-inch PVC	PORT5 14,592 feet of 6-inch PVC, 200 feet of 6-inch DI and 130 feet of 4-inch 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-Major Construction

North Logan Water District  
Facility Requirements

Activity ID No.: APE20080002

Page 1 of 7

**GACT5 (Rockwell WLE- Contract 1) 14,592 feet Of 6-inch PVC, 200 feet of 6-inch DI and 130 feet of 4-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)]

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-Major Construction

North Logan Water District

Facility Requirements

Activity ID No.: APE20080002

Page 2 of 7

### GACT5 (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	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

North Logan Water District

Facility Requirements

Activity ID No.: APE20080002

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**PORT5 (Water Line) 14,592 feet Of 6-inch PVC, 200 feet of 6-inch DI and 130 feet of 4-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 water lines shall have Diameter $\geq 3$ in. [Recommended Standards for Water Works 8.1.4] This requirement is applicable during the following months: All Year. Statistical basis: Minimum.
L-4	Diameter	Water lines with Diameter $< 6$ in shall not have fire hydrants. [Recommended Standards for Water Works 8.1.5] This requirement is applicable during the following months: All Year. Statistical basis: Minimum.
L-5	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-6	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-7	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-8	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

North Logan Water District

Facility Requirements

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### PORT5 (continued):

#### Limitation Requirements:

Condition No.	Parameter	Condition
L-9	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-10	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-11	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-12	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-13	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

North Logan Water District  
Facility Requirements

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### PORT5 (continued):

#### Limitation Requirements:

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Condition No.	Parameter	Condition
L-14	Velocity	Each blow-off, fire hydrant, or flush 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.

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#### Monitoring Requirements:

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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.

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#### Narrative Requirements:

##### Asbestos (Friable):

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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)]

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## Distribution-Major Construction

North Logan Water District  
Facility Requirements

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### PORT5 (continued):

#### Narrative Requirements:

##### Additional Limitations:

Condition No.	Condition
T-2	<p>Additional Limitations: Water line installation shall be in accordance with AWWA standards or manufacturer recommendations. [Recommended Standards for Water Works 8.5.1]</p>
T-3	<p>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]</p>
T-4	<p>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]</p>
T-5	<p>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]</p>
T-6	<p>Additional Limitations: A flush hydrant or blow-off shall be required at the end of each dead end line that is less than 6 inches in diameter. [Recommended Standards for Water Works 8.1.6]</p>
T-7	<p>Additional Limitations: For each fire or flush hydrant, auxiliary valves shall be installed in the hydrant lead pipe. [Recommended Standards for Water Works 8.3.3]</p>
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>

**Distribution-Major Construction**

North Logan Water District

Facility Requirements

Activity ID No.: APE20080002

**PORT5 (continued):**

**Narrative Requirements:**

**Additional Limitations:**

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Condition	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)]



# NORTH LOGAN WATER DISTRICT

3118 Lewisburg Road  
Russellville, KY 42276  
Phone/Fax: 270-726-8050

Water Commissioners  
Smokey Smotherman  
Chairman  
Tim Barr  
Secretary/Treasurer  
C.B. Cornett  
Commissioner

## Operating Revenue & Expenses

Rockwell Water Project  
July 2, 2008

The entire project consists of line replacement, thus not adding any additional footage to the current inventory. Hence, no additional expenses are anticipated as a result of the project. Due to the corrections of a known cause of leaks, the purchase water and materials & supplies expense items are expected to decrease, resulting in lower water loss (17.8% FY2007) and repair expense.

### *Revenues & Expenses (PSC Report FY2007)*

Item No.	Revenue Item	Amount
1	Unmetered Water Revenue	\$ 26,657.00
2	Residential Customer Water Sales	\$ 275,116.00
3	Industrial Customer Water Sales	\$ 131,872.00
4	Other Water Revenues	\$ 11,105.00
<b>Total Utility Revenues</b>		<b>\$ 444,750.00</b>
Item No.	Expense Item	Amount
1	Salaries & Wages - Employees	\$ 22,500.00
2	Salaries & Wages - Officers	\$ 12,000.00
3	Employee Pension & Benefits	\$ 7,520.00
4	Purchased Water	\$ 202,324.00
5	Utilities	\$ 3,327.00
6	Materials & Supplies (including repairs)	\$ 32,393.00
7	Contractual Services - Accounting	\$ 13,857.00
8	Contractual Services - Management	\$ 10,345.00
9	Contractual Services - Testing	\$ 629.00
10	Transportation Expense	\$ 11,049.00
11	Insurance - General Liability	\$ 3,861.00
12	Insurance - Worker's Comp	\$ 1,508.00
13	Bad Debts	\$ 3,530.00
14	Miscellaneous	\$ 2,763.00
<b>Total Utility Expenses</b>		<b>\$ 327,606.00</b>

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Commissioner

## Anticipated Construction Schedule

Rockwell Water Project  
July 2, 2008

### Contract No. 1 – Water Line Upgrades

- Anticipated Start Date: August 1, 2008
- Tentative Completion Date: December 1, 2008 (120 calendar days)

## Current Rate Schedules

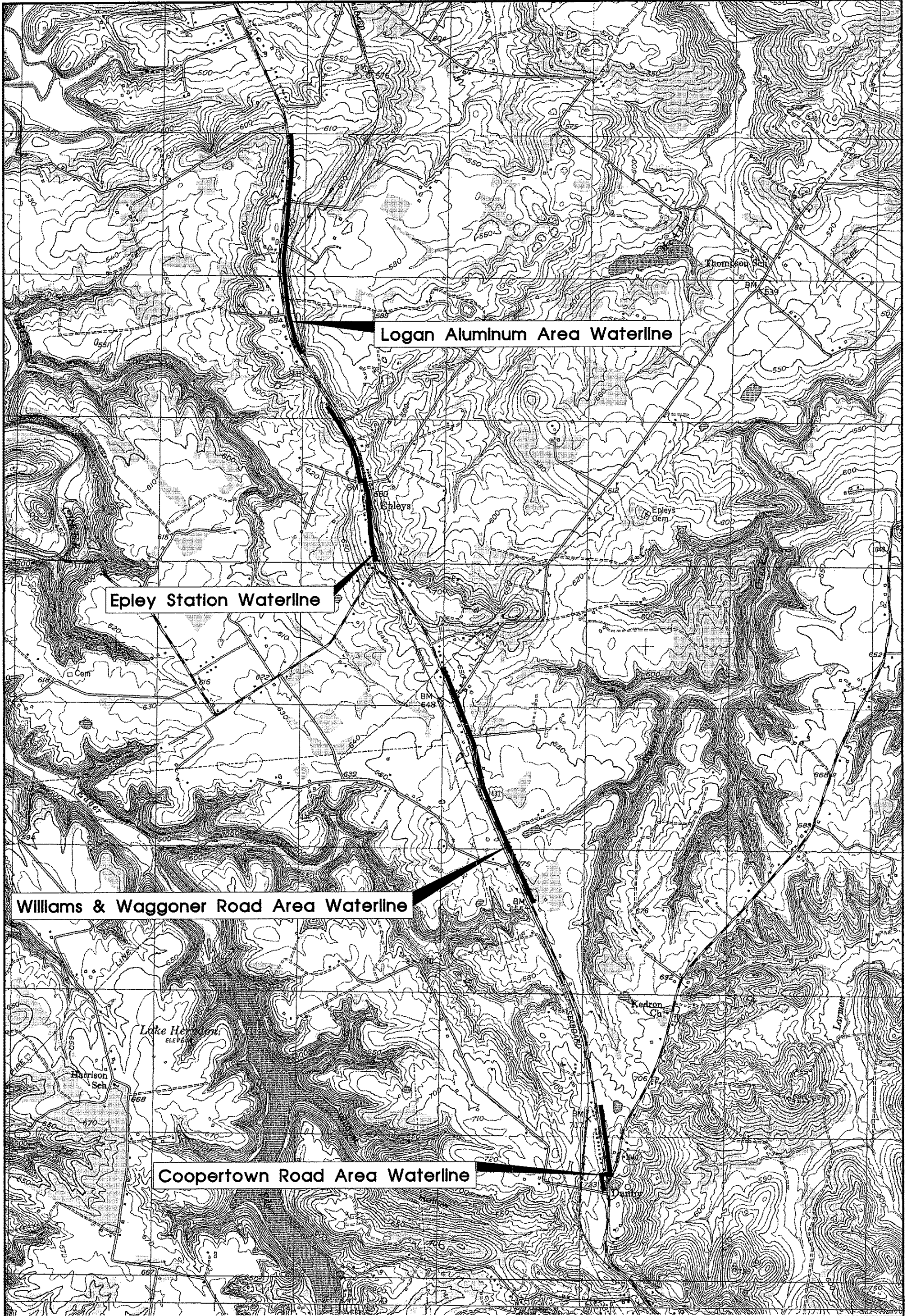
Rockwell Water Project

Meter Size All :

First	<u>2,000</u>	Gallons @	<u>\$ 23.24</u>	Minimum
Next	<u>2,000</u>	Gallons @	<u>\$ 10.62</u>	per 1,000 Gallons
Next	<u>6,000</u>	Gallons @	<u>\$ 6.81</u>	per 1,000 Gallons
Next	<u>15,000</u>	Gallons @	<u>\$ 6.46</u>	per 1,000 Gallons
All Over	<u>25,000</u>	Gallons @	<u>\$ 6.11</u>	per 1,000 Gallons

*Effective Date: February 1, 2007*

*No rate changes are proposed as a result of the project.*



**Williams & Waggoner Road Area Waterline**

**Epley Station Waterline**

**Logan Aluminum Area Waterline**

**Coopertown Road Area Waterline**

EXHIBIT NO.  
1



North Logan Water District  
**ROCKWELL WATER PROJECT**  
 Project Vicinity Map  
 (Basemap: "Lewisburg" 7.5' Quadrangle)

FIRM: McGhee  
 DES BY: CWW CHK BY: ETH  
 DWN BY: CWW APP BY:  
 SCALE: Approx. 1" = 2,000'  
 PROJECT DATE:  
 PRINTED:  
 LENGTH OF BAR IS 1"  
 ON ORIGINAL DRAWING

