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PUBLIC SERVICE  
COMMISSION

**FINAL ENGINEERING REPORT**

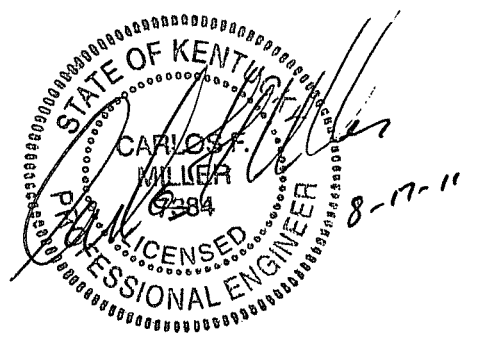
*FOR*

**ALLEN COUNTY WATER DISTRICT**

**PHASE 8 – OLD HWY 231 TRANSMISSION PIPELINE  
AND PUMP STATION**

**PROJECT No. 2009119**

**AUGUST, 2011**



A Preliminary Engineering Report dated September, 2009 describes, in detail, the scope and need for this project. The report is included herewith by reference.

Bids were received on August 2, 2011. The project was bid in two (2) contracts. The number of bids submitted for each contract is as follows:

Old US 231 Transmission Main (12)  
Old US 231 Pump Station (7)

The low bidder for the Old US 231 Transmission Main was Stotts Construction Co. Inc., Columbia, KY in the amount of \$349,810. The low bidder for Old US 231 Pump Station was Scott and Ritter, Inc., Bowling Green, KY in the amount of \$190,872. A copy of the certified bid tabulations is included in this report.

The project funding, per the Rural Development Letter of Conditions, is \$1,147,000. The funding sources available for this project are as follows:

Rural Development Loan	\$797,000
Rural Development Grant	200,000
Applicant Contribution	<u>150,000</u>
Total per RD Letter of Conditions	\$1,147,000

The construction bids for this project are within the project funding budget. A revised project cost breakdown is as follows:

<u>BUDGET ITEM</u>	<u>R.D. LETTER OF CONDITIONS</u>	<u>REVISED</u>
Development	\$840,200	\$540,682
Land & Rights	15,000	11,544
Legal & Administrative	17,300	12,407
Engineering	153,500	110,060 <sup>(1)</sup>
Interest	37,000	37,000
Contingencies	<u>84,000</u>	<u>435,307</u>
	\$1,147,000	\$1,147,000

(1) ENGINEERING

Design (10.07%)	\$ 54,447
Construction Observation (7.16%)	38,713
Preliminary Engineering Report	12,000
Environmental:	
Archaeological Survey	1,400
Environmental Assessment	<u>3,500</u>
	\$ 110,060

## RECOMMENDATIONS

1. The bid amounts for the project are in the acceptable range for the types of work involved. The contractors that submitted the low bids have completed projects for Kenvirons in the past and are experienced and acceptable.
2. It is recommended that Old US 231 Transmission Pipeline be awarded to Stotts Construction Co., Inc. in the amount of \$349,810.
3. It is recommended that Old US 231 Pump Station be awarded to Scott and Ritter, Inc. in the amount of \$190,872.
4. Proceed with the application to the Public Service Commission for authority to construct the facilities and adjust the rates.
5. Remaining monies can be used to install additional improvements and reinforcements in the system or other purposes with the approval of Rural Development. When the initial project is substantially complete and the amount of remaining monies can be more precisely determined, a report relative to requested uses will be submitted.

KENVIRONS, INC.  
 452 VERSAILLES ROAD  
 FRANKFORT, KENTUCKY 40601  
 TEL (502) 695-4357  
 FAX (502) 695-4363

**BID TABULATIONS**  
 PROJECT: Old US 231 Pump Station  
 LOCATION: Allen County Water District  
 BID DATE: August 2, 2011 at 2:00 P.M. Local Time

Base Bid				Scott & Ritter, Inc. P.O. Box 749 Bowling Green, KY 42102		S&R Excavation 2137 Glen Lily Road Bowling Green, KY 42101		Southern Backhoe, Inc. 808 West Main Street Campbellsville, KY 42718		Cleary Construction, Inc. 2006 Edmonton Road Tompkinsville, KY 42167	
ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT COST	COST	UNIT COST	COST	UNIT COST	COST	UNIT COST	COST
1	Pump Station, Complete and Operable	LS	1	\$147,160.00	\$147,160.00	\$140,300.00	\$140,300.00	\$145,000.00	\$145,000.00	\$170,000.00	\$170,000.00
2	Earthwork	LS	1	2,340.00	2,340.00	6,500.00	6,500.00	20,000.00	20,000.00	7,500.00	7,500.00
3	Foundation	LS	1	14,945.00	14,945.00	35,000.00	35,000.00	20,000.00	20,000.00	40,000.00	40,000.00
4	Painting	LS	1	8,650.00	8,650.00	3,550.00	3,550.00	2,500.00	2,500.00	7,500.00	7,500.00
5	Site Restoration	LS	1	1,740.00	1,740.00	2,100.00	2,100.00	3,000.00	3,000.00	3,500.00	3,500.00
6	Yard Piping including Valves & Appurtenance	LS	1	8,225.00	8,225.00	7,000.00	7,000.00	7,500.00	7,500.00	6,000.00	6,000.00
7	Crushed Stone Paving per plan dimensions	Tons	100	21.00	2,100.00	18.00	1,800.00	35.00	3,500.00	30.00	3,000.00
8	Chain Link Fencing including 16' Gate	LF	170	33.60	5,712.00	20.50	3,485.00	80.00	13,600.00	36.00	6,120.00
<b>TOTAL BASE BID</b>					<b>\$190,872.00</b>		<b>\$199,735.00</b>		<b>\$215,100.00</b>		<b>\$243,620.00</b>

Base Bid				Conley H. Gregory Const., Inc. 1900 North Main Street Monticello, KY 42633		VanGuard Const. Co., Inc. 603 Forest Hills Drive Campbellsville, KY 42718		Cumberland Pipeline, LLC P.O. Box 277 Russell Springs, KY 42642	
ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT COST	COST	UNIT COST	COST	UNIT COST	COST
1	Pump Station, Complete and Operable	LS	1	\$182,608.19	\$182,608.19	\$231,500.00	\$231,500.00	\$177,012.00	\$177,012.00
2	Earthwork	LS	1	5,000.00	5,000.00	10,000.00	10,000.00	8,000.00	8,000.00
3	Foundation	LS	1	22,000.00	22,000.00	27,500.00	27,500.00	10,000.00	10,000.00
4	Painting	LS	1	7,500.00	7,500.00	8,500.00	8,500.00	10,000.00	10,000.00
5	Site Restoration	LS	1	5,000.00	5,000.00	2,500.00	2,500.00	12,000.00	12,000.00
6	Yard Piping including Valves & Appurtenance	LS	1	14,500.00	14,500.00	6,500.00	6,500.00	6,000.00	6,000.00
7	Crushed Stone Paving per plan dimensions	Tons	100	28.00	2,800.00	24.50	2,450.00	25.00	2,500.00
8	Chain Link Fencing including 16' Gate	LF	170	42.00	7,140.00	65.00	11,050.00	8,000.00 *	1,360,000.00
<b>TOTAL BASE BID</b>					<b>\$246,548.19</b>		<b>\$300,000.00</b>		<b>\$1,585,512.00</b>

\*- DENOTES AN ARITHMETIC ERROR WAS MADE ON BASE BID, AMOUNT HAS BEEN CORRECTED TO REFLECT UNIT PRICE SUBMITTED ON BASE BID.  
 THE ABOVE IS A TRUE AND COMPLETE TABULATION OF BIDS RECEIVED UNTIL 2:00 P.M. on August 2, 2011.

BY: Carlos F. Miller  
 Carlos F. Miller, P.E.  
 7-3-11  
 DATE




KENVIRONS, INC.  
 452 VERSAILLES ROAD  
 FRANKFORT, KENTUCKY 40601  
 TEL (502) 695-4357  
 FAX (502) 695-4363

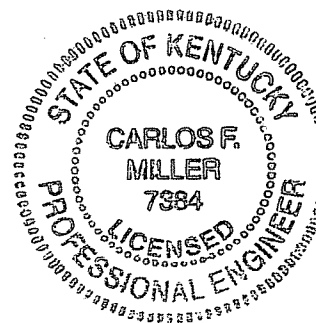
**BID TABULATIONS**  
 PROJECT: Old US 231 Transmission Main  
 LOCATION: Allen County Water District  
 BID DATE: August 2, 2011 at 2:00 P.M. Local Time

Base Bid				Stotts Const. Co., Inc. P.O. Box 1689 Columbia, KY 42728		Horsley Construction, Inc. 368 Hagan Dennis Lane Hudson, KY 40145		United Pipeline, Inc. 4627 Gamaliel Road Tompkinsville, KY 42167		Cumberland Pipeline, LLC P.O. Box 277 Russell Springs, KY 42642	
ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT COST	COST	UNIT COST	COST	UNIT COST	COST	UNIT COST	COST
1	8-inch PVC Pipe, SDR 17	LF	17,400	\$12.45	\$216,630.00	\$12.70	\$220,980.00	\$14.50	\$252,300.00	\$17.85	\$310,590.00
2	8-inch Gate Valve	EA	5	1,150.00	5,750.00	1,100.00	5,500.00	1,100.00	5,500.00	1,175.00	5,875.00
3	Bored Encasement for 8" PVC Carrier Pipe	LF	510	75.00	38,250.00	88.00	44,880.00	90.00	45,900.00	97.00	49,470.00
4	Bored Encasement for 4" PVC Carrier Pipe	LF	60	65.00	3,900.00	70.00	4,200.00	60.00	3,600.00	79.00	4,740.00
5	Ditchline Stabilization	Tons	560	23.00	12,880.00	20.00	11,200.00	20.00	11,200.00	30.00	16,800.00
6	Tie-in to 12-inch Pipe	EA	1	600.00	600.00	1,000.00	1,000.00	481.00	481.00	1,000.00	1,000.00
7	Pavement Restoration										
7.1	Crushed Stone	LF	1,000	6.00	6,000.00	10.00	10,000.00	15.00	15,000.00	7.50	7,500.00
7.2	Light Duty Bituminous	LF	250	20.00	5,000.00	15.00	3,750.00	26.00	6,500.00	25.00	6,250.00
7.3	Heavy Duty Bituminous	LF	250	25.00	6,250.00	25.00	6,250.00	31.00	7,750.00	30.00	7,500.00
7.4	Concrete	LF	40	35.00	1,400.00	25.00	1,000.00	13.00	520.00	30.00	1,200.00
8	Trenched Creek Crossing, Type A	LF	30	60.00	1,800.00	80.00	2,400.00	62.00	1,860.00	83.00	2,490.00
9	Johnson Road Tie-In	EA	1	3,000.00	3,000.00	2,000.00	2,000.00	1,486.00	1,486.00	2,400.00	2,400.00
10	Air Release Valve	EA	1	750.00	750.00	700.00	700.00	638.00	638.00	1,450.00	1,450.00
11	8-inch Stub-Out	EA	2	1,800.00	3,600.00	1,700.00	3,400.00	1,515.00	3,030.00	1,250.00	2,500.00
12	Fire Hydrant, Type 3	EA	3	3,200.00	9,600.00	3,100.00	9,300.00	2,661.00	7,983.00	3,650.00	10,950.00
13	8" x 8" TS&V	EA	1	3,000.00	3,000.00	2,200.00	2,200.00	1,665.00	1,665.00	2,550.00	2,550.00
14	Freebore for 8" PVC Pipe	LF	250	40.00	10,000.00	20.00	5,000.00	28.00	7,000.00	30.00	7,500.00
15	Final Pipeline Cleanup	LF	16,400	1.00	16,400.00	1.00	16,400.00	1.00	16,400.00	1.00	16,400.00
16	Directional Bore for Blue Line Stream	LS	1	5,000.00	5,000.00	1,000.00	1,000.00	9,436.00	9,436.00	14,100.00	14,100.00
<b>TOTAL BASE BID</b>					<b>\$349,810.00</b>		<b>\$351,160.00</b>		<b>\$398,249.00</b>		<b>\$471,265.00</b>

THE ABOVE IS A TRUE AND COMPLETE TABULATION OF BIDS RECEIVED UNTIL 2:00 P.M. Local Time on August 2, 2011.

BY:   
 Carlos F. Miller, P.E.

8-3-11  
 DATE



KENVIRONS, INC.  
 452 VERSAILLES ROAD  
 FRANKFORT, KENTUCKY 40601  
 TEL (502) 695-4357  
 FAX (502) 695-4363

**BID TABULATIONS**  
 PROJECT: Old US 231 Transmission Main  
 LOCATION: Allen County Water District  
 BID DATE: August 2, 2011 at 2:00 P.M. Local Time

Base Bid				Laurel Construction Co., Inc. 5209 Somerset Road London, KY 40741		Garrison Construction Co., Inc. 6960 Greensburg Road Greensburg, KY 42743		Southern Backhoe, Inc. 808 West Main Street Campbellsville, KY 42718		Cleary Construction, Inc. 2006 Edmonton Road Tompkinsville, KY 42167	
				UNIT COST	COST	UNIT COST	COST	UNIT COST	COST	UNIT COST	COST
ITEM NO.	ITEM DESCRIPTION	UNIT.	QUANTITY								
1	8-inch PVC Pipe, SDR 17	LF	17,400	\$16.28	\$283,272.00	\$15.90	\$276,660.00	\$18.50	\$321,900.00	\$20.30	\$353,220.00
2	8-inch Gate Valve	EA	5	900.00	4,500.00	1,140.00	5,700.00	1,025.00	5,125.00	1,186.00	5,930.00
3	Bored Encasement for 8" PVC Carrier Pipe	LF	510	170.00	86,700.00	172.00	87,720.00	130.00	66,300.00	120.00	61,200.00
4	Bored Encasement for 4" PVC Carrier Pipe	LF	60	110.00	6,600.00	120.00	7,200.00	125.00	7,500.00	75.00	4,500.00
5	Ditchline Stabilization	Tons	560	31.00	17,360.00	45.10	25,256.00	40.00	22,400.00	25.00	14,000.00
6	Tie-In to 12-inch Pipe	EA	1	1,000.00	1,000.00	1,530.00	1,530.00	800.00	800.00	1,650.00	1,650.00
7	Pavement Restoration										
7.1	Crushed Stone	LF	1,000	23.00	23,000.00	8.75	8,750.00	20.00	20,000.00	1.00	1,000.00
7.2	Light Duty Bituminous	LF	250	25.00	6,250.00	32.50	8,125.00	15.00	3,750.00	1.00	250.00
7.3	Heavy Duty Bituminous	LF	250	27.00	6,750.00	41.00	10,250.00	15.00	3,750.00	1.00	250.00
7.4	Concrete	LF	40	50.00	2,000.00	28.00	1,120.00	20.00	800.00	50.00	2,000.00
8	Trenched Creek Crossing, Type A	LF	30	70.00	2,100.00	97.00	2,910.00	120.00	3,600.00	200.00	6,000.00
9	Johnson Road Tie-In	EA	1	3,000.00	3,000.00	2,095.00	2,095.00	2,100.00	2,100.00	2,750.00	2,750.00
10	Air Release Valve	EA	1	650.00	650.00	735.00	735.00	650.00	650.00	720.00	720.00
11	8-inch Stub-Out	EA	2	2,050.00	4,100.00	2,345.00	4,690.00	1,600.00	3,200.00	1,930.00	3,860.00
12	Fire Hydrant, Type 3	EA	3	3,240.00	9,720.00	3,615.00	10,845.00	3,500.00	10,500.00	3,600.00	10,800.00
13	8" x 8" TS&V	EA	1	3,100.00	3,100.00	2,545.00	2,545.00	2,400.00	2,400.00	2,850.00	2,850.00
14	Freebore for 8" PVC Pipe	LF	250	25.00	6,250.00	50.00	12,500.00	40.00	10,000.00	70.00	17,500.00
15	Final Pipeline Cleanup	LF	16,400	1.00	16,400.00	1.00	16,400.00	1.00	16,400.00	1.00	16,400.00
16	Directional Bore for Blue Line Stream	LS	1	100.00	100.00	19,685.00	19,685.00	7,500.00	7,500.00	5,000.00	5,000.00
<b>TOTAL BASE BID</b>					<b>\$482,852.00</b>		<b>\$504,716.00</b>		<b>\$508,675.00</b>		<b>\$509,880.00</b>

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**BID TABULATIONS**  
 PROJECT: Old US 231 Transmission Main  
 LOCATION: Allen County Water District  
 BID DATE: August 2, 2011 at 2:00 P.M. Local Time

Base Bid				Twin States Utilities & Excavation, Inc. P.O. Box 14 Mount Hermon, KY 42157		B.P. Pipeline, LLC 269 Pebbles Lane Quincy, KY 41166		S&R Excavation 2137 Glen Lily Road Bowling Green, KY 42101		Salmon Construction, Inc. P.O. Box 97 Mt. Washington, KY 40047	
ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT COST	COST	UNIT COST	COST	UNIT COST	COST	UNIT COST	COST
1	8-inch PVC Pipe, SDR 17	LF	17,400	\$19.50	\$339,300.00	\$19.99	\$347,826.00	\$18.55	\$322,770.00	\$26.34	\$458,316.00
2	8-inch Gate Valve	EA	5	1,200.00	6,000.00	999.00	4,995.00	1,260.00	6,300.00	1,100.00	5,500.00
3	Bored Encasement for 8" PVC Carrier Pipe	LF	510	170.00	86,700.00	190.00	96,900.00	230.00	117,300.00	300.00	153,000.00
4	Bored Encasement for 4" PVC Carrier Pipe	LF	60	115.00	6,900.00	60.00	3,600.00	230.00	13,800.00	300.00	18,000.00
5	Ditchline Stabilization	Tons	560	25.00	14,000.00	30.00	16,800.00	31.85	17,836.00	60.00	33,600.00
6	Tie-In to 12-inch Pipe	EA	1	1,200.00	1,200.00	2,500.00	2,500.00	465.00	465.00	2,500.00	2,500.00
7	Pavement Restoration										
7.1	Crushed Stone	LF	1,000	5.00	5,000.00	5.00	5,000.00	11.20	11,200.00	10.00	10,000.00
7.2	Light Duty Bituminous	LF	250	20.00	5,000.00	20.00	5,000.00	50.00	12,500.00	45.00	11,250.00
7.3	Heavy Duty Bituminous	LF	250	20.00	5,000.00	30.00	7,500.00	57.00	14,250.00	45.00	11,250.00
7.4	Concrete	LF	40	40.00	1,600.00	35.00	1,400.00	33.35	1,334.00	150.00	6,000.00
8	Trenched Creek Crossing, Type A	LF	30	50.00	1,500.00	95.00	2,850.00	155.00	4,650.00	110.00	3,300.00
9	Johnson Road Tie-In	EA	1	3,500.00	3,500.00	1,500.00	1,500.00	3,260.00	3,260.00	4,000.00	4,000.00
10	Air Release Valve	EA	1	1,500.00	1,500.00	600.00	600.00	998.00	998.00	800.00	800.00
11	8-inch Stub-Out	EA	2	2,000.00	4,000.00	100.00	200.00	2,155.00	4,310.00	2,800.00	5,600.00
12	Fire Hydrant, Type 3	EA	3	3,600.00	10,800.00	3,100.00	9,300.00	3,655.00	10,965.00	4,000.00	12,000.00
13	8" x 8" TS&V	EA	1	3,500.00	3,500.00	2,400.00	2,400.00	3,115.00	3,115.00	4,500.00	4,500.00
14	Freebore for 8" PVC Pipe	LF	250	30.00	7,500.00	35.00	8,750.00	15.05	3,762.50	60.00	15,000.00
15	Final Pipeline Cleanup	LF	16,400	1.00	16,400.00	1.00	16,400.00	1.00	16,400.00	1.00	16,400.00
16	Directional Bore for Blue Line Stream	LS	1	10,000.00	10,000.00	12,000.00	12,000.00	10,000.00	10,000.00	15,000.00	15,000.00
<b>TOTAL BASE BID</b>					<b>\$529,400.00</b>		<b>\$545,521.00</b>		<b>\$575,215.50</b>		<b>\$786,016.00</b>