

Warren County  
Water District

October 28, 2011

MR JEFF DEROUEN  
EXECUTIVE DIRECTOR  
PUBLIC SERVICE COMMISSION  
P O BOX 615  
FRANKFORT KY 40602

RE: Case No. 2011-00418  
Warren County Water District

RECEIVED  
OCT 31 2011  
PUBLIC SERVICE  
COMMISSION

Dear Mr. Derouen:

Included with this transmittal are the original and 10 copies of several documents to supplement the District's application in the referenced case. The identification letters for the attached exhibits are a continuation of the sequence from the original application:

**Exhibit K** – Letter from the Kentucky Division of Water which is the permit from the appropriate public authority for the proposed construction.

**Exhibit L** – Full description of the proposed location and route of the proposed construction.

**Exhibit M** – Maps of suitable scale showing the location and route of the proposed construction. There are no like facilities owned by others located anywhere within the map area.

The approval letter from the Kentucky Division of Water for the proposed construction's plans and specifications. (See Exhibit K)

**Exhibit N** – A detailed map of Warren County Water District's sewage facilities that shows the location of all collection mains, manholes, and utility service area.

**Exhibit O** – A detailed depreciation schedule of all property and facilities, existing and proposed, listing all major components separately.

**Exhibit P** – Excerpts of minutes. Board approval of revised project budget and funding.

If we can provide any other information to expedite this application, please let me know.

Sincerely,

Alan H. Vilines, P.E.  
General Manager

AHV:jh

Enclosures

Providing high quality  
water and wastewater  
services to families and  
businesses throughout  
Warren County.





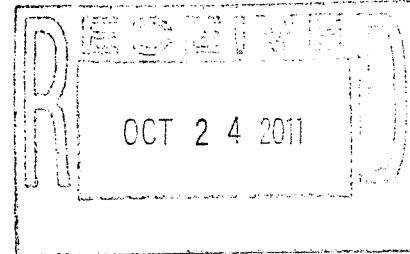
STEVEN L. BESHEAR  
GOVERNOR



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)

October 18, 2011



Bryan Tillery, PE  
PO Box 10180  
Bowling Green, KY 42102

Re: Buchanan Park Sewer Line Extension  
Warren County, Kentucky  
Project ID: 12-0090  
Bowling Green WWTP -- 4101  
Activity ID: APE20110013

Dear Mr. Tillery:

In accordance with KRS Chapter 224.10-100 (19), the Energy and Environment Cabinet approves the Construction Permit Application for Sewer Line Construction dated September 13, 2011.

If we can be of any further assistance or should you wish to discuss this correspondence, please do not hesitate to contact Terry Humphries at 502/564-8158, extension 4837.

Sincerely,

A handwritten signature in black ink, appearing to read "Greg Goode".

Greg Goode, P.E.  
Acting Supervisor, Engineering Section  
Water Infrastructure Branch  
Division of Water

GJG/TWH

c: Warren County Health Department  
Plumbing  
Bowling Green Municipal Utilities  
Attachment

**Sewer Line Construction**  
Bowling Green WWTP  
Facility Requirements

Activity ID No.: APE20110013

**Submittal/Action Requirements:**

Condition No.	Item ID	Condition
S-1	PORT69 (BGMU WWTP)	When this system is completed, the applicant shall submit written certification: Due 30 calendar days after Completion of Construction to the Division of Water that the facilities have been constructed and tested in accordance with the approved plans and specifications and the above approval conditions. Such certification shall be signed by a registered professional engineer. Failure to certify may result in penalty assessment and/or future approvals being withheld. [401 KAR 5:005 Section 24(2)]

**Narrative Requirements:**

Condition No.	Item ID	Condition
T-1	PORT69 (BGMU WWTP)	The plans and specifications submitted for the project are approved by the Environmental and Public Protection Cabinet as to sanitary features, subject to the requirements contained within the permit. [401 KAR 5:005 Section 24(4)(a)]
T-2	PORT69 (BGMU WWTP)	Authority to construct these sewers is hereby granted. This approval is issued under the provisions of KRS Chapter 224.10-100 (19) regulations promulgated pursuant thereto. Issuance of this permit does not relieve the permittee from the responsibility of obtaining any permits or licenses required by this Cabinet and other state, federal, and local agencies. [401 KAR 5:005 Section 24(4)(a)]
T-3	PORT69 (BGMU WWTP)	The plans include approximately 2,487 linear feet of 8 inch PVC sanitary sewers, approximately 4,253 linear feet of 12 inch PVC sanitary sewers and approximately 3,077 linear feet of 15 inch PVC sanitary sewers. The flow from these lines is to be treated at the Bowling Green Municipal Utilities Wastewater Treatment Plant, KPDES Permit No. KY0022403, Warren County, Kentucky. [401 KAR 5:005 Section 24(4)(a)]
T-4	PORT69 (BGMU WWTP)	The types of sanitary sewer pipe shall be limited to the following: PVC. [401 KAR 5:005 Section 1(2)]

## Sewer Line Construction

Bowling Green WWTP  
Facility Requirements

Activity ID No.: APE20110013

### Narrative Requirements:

Page 3 of 4

Condition No.	Item ID	Condition
T-12	PORT69 (BGMU WWTP)	If gravity sewer lines and force mains are to be constructed in fill areas, the fill areas shall be compacted to ninety-five (95) percent density as determined by the Standard Proctor Density test or to a minimum of ninety (90) percent density as determined by the Modified Proctor Density test prior to the installation of the sewer lines. [401 KAR 5:005 Section 8(10)]
T-13	PORT69 (BGMU WWTP)	Sewers crossing water mains shall be laid to provide a vertical distance of 18 inches between the outside of the water main and the outside of the sewer. This shall be the case where the water main is either above or below the sewer. The crossing shall be arranged so that the sewer joints are equidistant and as far as possible from the water main joints. Where a water main crosses under a sewer, adequate structural support shall be provided for the sewer to prevent damage to the water main. [Ten States (WW) 38.32]
T-14	PORT69 (BGMU WWTP)	Sewers shall be laid at least 10 feet horizontally from any existing or proposed water main. The distance shall be measured from edge to edge. [Ten States (WW) 38.31]
T-15	PORT69 (BGMU WWTP)	The entrance of groundwater into, or loss of waste from, a new gravity sewer line shall be limited to 200 gpd per inch of diameter per mile of the gravity sewer line. This limitation includes manholes, gravity sewer lines, and appurtenances. [401 KAR 5:005 Section 8(5)]
T-16	PORT69 (BGMU WWTP)	Facilities shall be designed in accordance with the "Recommended Standards for Wastewater Facilities" of the Great Lakes-Upper Mississippi River Board of State Public Health and Environmental Managers, commonly referred to as "Ten States' Standards", 2004 edition. [401 KAR 5:005 Section 7(1)(a)]
T-17	PORT69 (BGMU WWTP)	The permit is issued to the applicant and the permittee shall remain the responsible party for compliance with all applicable statutes and administrative regulations until a notarized applicable change in ownership certification is submitted and the transfer of ownership is acknowledged by the cabinet. [401 KAR 5:005 Section 24(3)]
T-18	PORT69 (BGMU WWTP)	There shall be no deviations from the plans and specifications submitted with the application or the conditions specified unless authorized in writing by the cabinet. [401 KAR 5:005 Section 24(4)(b)]



## **EXHIBIT L**

### **DETAILED DESCRIPTION OF PROPOSED SEWER SYSTEM ADDITIONS**

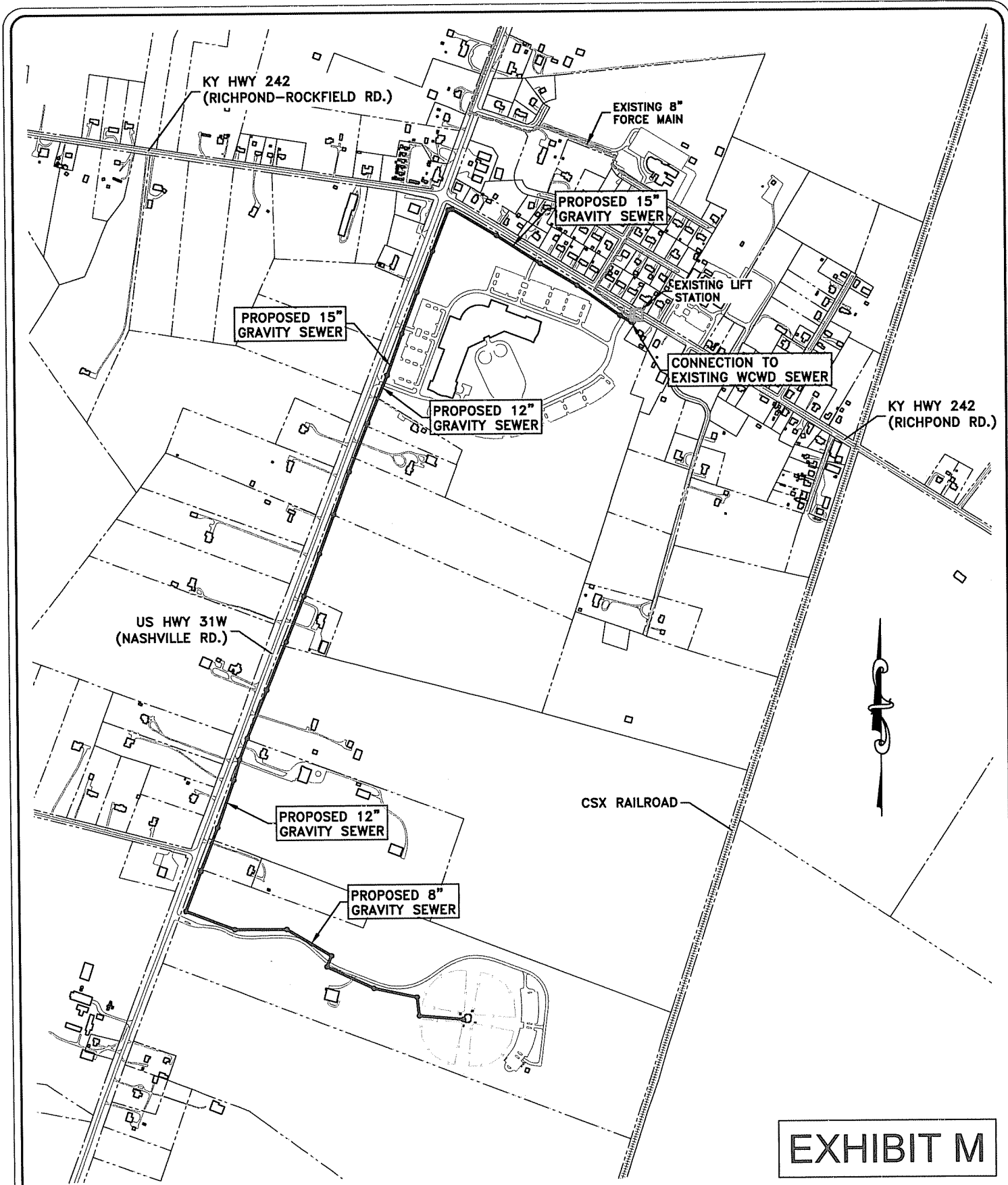
Warren County Water District (Warren Water) is proposing the construction of approximately 7,400 feet of 12- and 15-inch public gravity sewers to provide sewer service to the Buchanon Park and surrounding areas. Additionally, approximately 2,500 feet of 8-inch private gravity sewer is proposed within the park to allow connection to existing facilities.

The proposed interceptor begins at an existing gravity sewer main near a wastewater pumping station adjacent to KY Hwy 242, approximately 0.33 miles east of US Hwy 31W. From this discharge point, a 15-inch sewer main will extend approximately 3,000 feet westerly to a point near the intersection of US Hwy 31W and KY Hwy 242, then southerly adjacent to US Hwy 31W to a point. From that point a 12-inch interceptor will continue adjacent to US Hwy 31W approximately 4,400 feet. An 8-inch private sewer will extend from the end of the 12-inch interceptor, easterly, approximately 2,500 feet into Buchanon Park. The estimated cost of this project is \$1,136,300.00. The public portion of the route described is within or adjacent to the right-of-way of KY Hwy 242 and US Hwy 31W. A map of the proposed sewer is included as Exhibit M of this supplement.

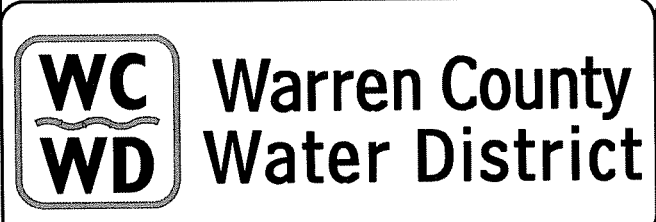
The proposed facilities are to provide sanitary sewer service to the Buchanon Park and several residences along US Hwy 31W. This new interceptor will also accommodate wastewater flows from surrounding areas which are projected to experience a high rate of development. The area that the proposed interceptor is projected to serve includes approximately 1,025 acres. At build-out, approximately 1,180 residential units are projected within the area. Future sewer extensions will be constructed from the proposed interceptor to provide sanitary sewer service throughout the development area. Initially, the wastewater flow from this interceptor will be less than 2,000 gpd. However, as growth occurs in the area, the wastewater flow will increase accordingly. At build-out, wastewater flows from the area are estimated at 160,000 gpd.







**EXHIBIT M**



**Warren County  
Water District**

**BUCHANON PARK  
SEWER EXTENSION**

SCALE:	1" = 1,000'
DATE:	10-14-11
PROJECT NO.:	270762
DESIGNED:	TKM
DRAWN:	JT
CHECKED:	BRT





Exhibit O  
WARREN COUNTY WATER DISTRICT - SEWER DIVISION  
Depreciation Schedule

	Depr. Rate	Balance 9/1/10	Additions	Retirements	Balance 8/31/11	12 Months Depreciation 9/10-8/11	Total Accum Depr thru 8/11	Net Plant Value 8/11
<b>INTANGIBLE PLANT</b>								
Organization (301)								
Franchises and Consents (302)								
Misc. Intangible Plant (303)								
Total Intangible Plant LAND AND STRUCTURES								
Land and Land Rights (310)		20,795.00	-	-	20,795.00			20,795.00
Structures and Improvements (311)	50 yrs	5,261,449.22	887,023.79	39,484.00	6,108,989.01	122,651.00	637,460.00	5,471,529.01
<b>Total Land and Structures</b>		<b>5,282,244.22</b>	<b>887,023.79</b>	<b>39,484.00</b>	<b>6,129,784.01</b>	<b>122,651.00</b>	<b>637,460.00</b>	<b>5,492,324.01</b>
<b>COLLECTION PLANT</b>								
Collection Sewers - Force (352.1)	50 yrs	11,045,080.08	1,695,710.04	35,424.00	12,705,366.12	250,721.00	2,282,885.00	10,422,481.12
Collection Sewers - Gravity (352.2)	50 yrs	10,611,939.69	1,629,211.60	7,776.00	12,233,375.29	240,889.00	2,193,361.00	10,040,014.29
Other Collection Plant Facilities (353)	15 yrs	260,645.00	-	-	260,645.00	19,264.00	222,430.00	38,215.00
Services to Customers (354)	50 yrs	2,395,498.61	25,461.66		2,420,960.27	48,217.00	386,577.00	2,034,383.27
Flow Measuring Devices (355)	20 yrs	136,085.09	3,100.66		139,185.75	4,379.00	39,808.00	99,377.75
<b>Total Collection Plant PUMPING PLANT</b>		<b>24,449,248.47</b>	<b>3,353,483.96</b>	<b>43,200.00</b>	<b>27,759,532.43</b>	<b>563,470.00</b>	<b>5,125,061.00</b>	<b>22,634,471.43</b>
Receiving Wells and Pump Pits (362)								
Pumping Equipment - Electric (363A)	50 yrs	2,111,453.58	-	-	2,111,453.58	42,348.00	670,892.00	1,440,561.58
Pumping Equipment - Diesel (363B)								
Pumping Equipment - Other (363C)								
<b>Total Pumping Plant (364)</b>		<b>2,111,453.58</b>	<b>-</b>	<b>-</b>	<b>2,111,453.58</b>	<b>42,348.00</b>	<b>670,892.00</b>	<b>1,440,561.58</b>

**WARREN COUNTY WATER DISTRICT - SEWER DIVISION**  
**Depreciation Schedule**

	<u>Depr Rate</u>	<u>Balance 9/1/10</u>	<u>Additions</u>	<u>Retirements</u>	<u>Balance 8/31/11</u>	<u>12 Months Depreciation 9/10-8/11</u>	<u>Total Accum Depr thru 8/11</u>	<u>Net Plant Value 8/11</u>
TREATMENT AND DISPOSAL PLANT								
Oxidation Lagoon (372)								
Treatment and Disposal Equipment (373)								
Plant Sewers (374)								
Outfall Sewer Lines (375)								
Other Treatment and Disposal Plant Equip. (376)								
Total Treatment and Disposal Plant (371)								
GENERAL PLANT (372)								
Office Furniture and Equipment (391)	5 yrs	81,570.22	1,561.03	-	83,131.25	4,968.00	71,522.00	11,609.25
Transportation Equipment (392)								
Stores Equipment (393A)								
Tools, Shop, and Garage Equipment (393B)	12.5 yrs	39,657.88	527.22		40,185.10	3,188.00	28,265.00	11,920.10
Laboratory Equipment (393C)								
Power Operated Equipment (393D)								
Communication Equipment (393E)	5 yrs	6,502.57			6,502.57	790.00	6,472.00	30.57
Other Tangible Property (393F)	5 yrs	840.00			840.00		840.00	-
<b>Total General Plant</b>		<b>128,570.67</b>	<b>2,088.25</b>	<b>-</b>	<b>130,658.92</b>	<b>8,946.00</b>	<b>107,099.00</b>	<b>23,559.92</b>
<b>TOTAL SEWER PLANT IN SERVICE</b>		<b>31,971,516.94</b>	<b>4,242,596.00</b>	<b>82,684.00</b>	<b>36,131,428.94</b>	<b>737,415.00</b>	<b>6,540,512.00</b>	<b>29,590,916.94</b>

**Buchanan Park Sewer Line Extension  
Proposed Depreciation Schedule**

	<u>Depr Rate</u>	<u>Beginning Balance</u>	<u>Additions</u>	<u>Retirements</u>	<u>Balance</u>	<u>12 Months (1st Year of Service)</u>	<u>Total Accum After First Year</u>	<u>Net Plant Value After First Year</u>
Collection Sewers - Gravity (352.2) (Note 1)	50 yrs	932,900.00	-	-	932,900.00	18,658.00	18,658.00	914,242.00

**Note:**

(1) Estimated Depreciation of 932,900 is based on total project cost less \$170,240 for privately owned sewer by Warren Fiscal Court and associated engineering & contingency costs.



**EXCERPTS OF MINUTES OF A  
REGULAR MEETING OF THE  
WARREN COUNTY WATER DISTRICT**

The Board of Commissioners of the Warren County Water District met in regular session on October 25, 2011, at 4:00 p.m. at 523 U.S. Hwy 31-W Bypass, Bowling Green, Kentucky. The meeting was called to order with Henry Honaker, Chairman, presiding, and the following other members of the Commission present: Thomas A. Donnelly, Vice-Chairman; Glen Johnson, Secretary; and Joe Taylor, Sr., Treasurer. Also present were Frank Hampton Moore, Jr., Attorney and Alan Vilines, General Manager.

\* \* \*

(Other Business)

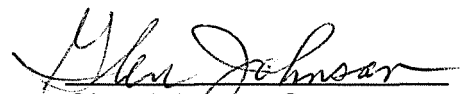
The Tabulation of Bids for construction of the Buchanan Park Sewer Line Extension and the Revised Project Budget were reviewed. The project budget was revised to reflect actual bid prices and to adjust engineering expenses, the contingency amount, and contributions by Fiscal Court and the Water District. Mr. Donnelly made a motion to approve the Revised Project Budget and the increased utilization of District funds for the project as shown in the budget. Mr. Johnson seconded the motion and all voted "aye."

(Other Business)

\* \* \*

Upon motion and vote the meeting adjourned.

I hereby certify that the foregoing excerpts of minutes are true and correct.



Glen Johnson, Secretary  
Warren County Water District