

COMMONWEALTH OF KENTUCKY
BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

**ELECTRONIC APPLICATION OF WESTERN)
PULASKI COUNTY WATER DISTRICT FOR THE)
ISSUANCE OF A CERTIFICATE OF PUBLIC)
CONVENIENCE AND NECESSITY TO) Case No. 2021 - 00417
CONSTRUCT A WATER IMPROVEMENTS)
PROJECT PURSUANT TO THE PROVISIONS)
OF KRS 278.020 AND 807 KAR 5:001)**

Response to Commission Staff's First Request for Information

Western Pulaski County Water District ("Western Pulaski District"), by Counsel, hereby files its Response to the Commission Staff's First Request for Information, dated December 29, 2021, as follows:

REQUEST 1: Refer to the Annual Report for Western Pulaski District filed for the calendar year 2020. Western Pulaski District reported in this report a Water Loss Percentage of 27.6693, with the exception of the Water Loss Surcharge being proposed in Case No. 2021-00445. Explain what other steps Western Pulaski District has taken to reduce its amount of water loss over the last five years.

WITNESS: Don Calder, Chairman, Western Pulaski County Water District.

RESPONSE 1: See Exhibit "A" attached hereto.

REQUEST 2: Refer to the Final Order in Case No. 2020-00331, page 2, in which it notes that Western Pulaski District repaired approximately 252 water leaks during the calendar year of 2019. Provide the number of water leaks repaired for the calendar years 2017, 2018, 2020, and 2021 to date.

WITNESS: Don Calder, Chairman, Western Pulaski County Water District.

RESPONSE 2: See Exhibit "B" attached hereto.

REQUEST 3: Refer to the Final Order in Case No. 2020-00331, page 2 - the section detailing the number of meters currently out of compliance to Commission regulations.

- (a) Provide the total number of meters that are out of compliance with Commission regulations.

WITNESS: Don Calder, Chairman, Western Pulaski County Water District.

RESPONSE 3(a): See **Exhibit "B"** attached hereto.

- (b) Provide the numbers of meters Western Pulaski District has replaced with radio read meters.

WITNESS: Don Calder, Chairman, Western Pulaski County Water District.

RESPONSE 3(b): See **Exhibit "B"** attached hereto

- (c) Provide the number of meters that still must be replaced by the radio read meters.

WITNESS: Don Calder, Chairman, Western Pulaski County Water District.

RESPONSE 3(c): See **Exhibit "B"** attached hereto

REQUEST 4: Refer to the Application, Exhibit C, Letters from Kentucky Infrastructure Authority (KIA). Provide all documents relied upon for the approximate dollar amount stated in the May 11, 2021 letters for the DWSRF Request to use Residual Funds, F16-003 (F16-003 KIA Loan), in the amount of \$370,000 and the Fund B Request to use Residual Funds, B20-004 (B20-004 KIA Loan), in the amount of \$240,000.

WITNESS: Don Calder, Chairman, Western Pulaski County Water District.

RESPONSE 4: See **Exhibit "C"** attached hereto.

REQUEST 5: Refer to the Application, Exhibit E, Final Project Budget. Reconcile Project Financing stated in this exhibit with the dollar amounts stated in the Exhibit C Letters.

WITNESS: Don Calder, Chairman, Western Pulaski County Water District.

RESPONSE 5: See **Exhibit "D"** attached hereto.

REQUEST 6: In the final Orders in Case No. 2017-00063, Case No. 2020-00119, and Case No. 2020-00331, the Commission directed Western Pulaski District to submit a report documenting the total cost of each project, including the cost of construction and all other capitalized costs (e.g., engineering, legal, and administrative), within 60 days of the date that construction was substantially completed.

- (a) Provide the reports documenting the actual construction cost information as requested by the Commission in each case cited.

WITNESS: Don Calder, Chairman, Western Pulaski County Water District.

RESPONSE 6(a): See **Exhibit "E"** attached hereto.

- (b) If any of the construction projects have yet to be completed, provide the expected date construction will be completed and documentation to support Western Pulaski District's statement that the proposed construction project will be funded with proceeds from the F16-003 KIA Loan and B20-004 KIA Loan.

WITNESS: Don Calder, Chairman, Western Pulaski County Water District.

RESPONSE 6(b): All construction projects approved in Case No. 2017-00063, Case No. 2020-00119, and Case No. 2020-00331 have been completed.

REQUEST 7: In the Table below is the calculation of the funds that would be available for the proposed construction project using the final project budgets provided by Western Pulaski District in the cases cited in Item 6. Using the table format below, provide, in Excel spreadsheet format with all formulas, columns, and rows unprotected and fully accessible, the actual construction amounts, KIA Loans and RD Grants.

WITNESS: Don Calder, Chairman, Western Pulaski County Water District.

RESPONSE 7: the requested Excel spreadsheet is being filed as a separate document with this Response.

Certification of Responses to Commission Staff's First Request for Information

I hereby certify that I have supervised the preparation of the Responses to the Commission Staff's First Request for Information. This information provided in the Responses is true and accurate to the best of my knowledge, information, and belief formed after a reasonable inquiry.



Don Calder, Chairman
Western Pulaski County Water District

The undersigned has prepared this Response as Counsel to and on behalf of the Western Pulaski County Water District, a governmental agency, and hereby certifies that this Response is true and accurate to the best of the undersign's knowledge, information and belief formed after a reasonable inquiry.

Respectfully Submitted:

Rubin & Hays

By 
W. Randall Jones, Esq., Counsel for Western
Pulaski County Water District
450 South Third Street
Louisville, Kentucky 40202
Telephone: (502) 569-7525
Fax: (502) 569-7555
Email: wrjones@rubinhays.com

CERTIFICATE OF SERVICE

The undersigned, in accordance with 807 KAR 5:001, Section 8, hereby certifies that Western Pulaski County Water District's electronic filing of the foregoing Response is a true and accurate copy of the document; that the electronic filing was transmitted to the Kentucky Public Service Commission on January 13, 2022; and that there are currently no parties that the Kentucky Public Service Commission has excused from participation by electronic means in this proceeding.

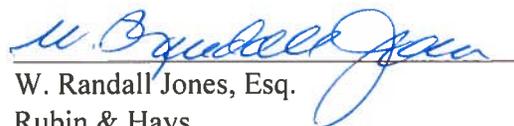

W. Randall Jones, Esq.
Rubin & Hays
450 South Third Street
Louisville, Kentucky 40202
Phone: (502) 569-7525
Fax: (502) 569-7555
Counsel for Western Pulaski County Water
District

EXHIBIT A

PSC CASE NO. 2021-00417

RESPONSE TO REQUEST NO. 1

1. Refer to the Annual Report for Western Pulaski District filed for the calendar year 2020.3 Western Pulaski District reported in this report a Water Loss Percentage of 27.6693, with the exception of the Water Loss Surcharge being proposed in Case No. 2021-00445. 4 Explain what other steps Western Pulaski District has taken to reduce its amount of water loss over the last five years.

Response:

- A. 8/28/20 Western Pulaski County Water District hired Logan Coomer to be in training as a Leak Location Specialist to specialize in the use of leak location equipment, leak location methods, to assist in mapping of the water system to enhance understanding of system as well as other employees being trained too. On one occasion over the summer Mr. Coomer located five service line leaks in an older subdivision over the course of one day that were not visible. Unfortunately, not all days turn out so productive.
- B. 6/25/18 Western Pulaski County Water District purchased a Trimble R2 sub-foot rover GPS. to map water system points such as meters, valves, lines, PRVs, hydrants, and leaks to have better information on problem areas that may need replaced. The district is in the process of mapping the water system.
- C. 2018 Western Pulaski County Water District began changing out meters to radio read meters to replace older meters that were not as accurate, as well as shorting the time of getting meter readings to help get readings faster to narrow down reading times to get more accurate with our water loss per zone. When being read direct some routes would take several days for our contracted readers to get readings back to office. To date the district has changed 5 routes that make up 2,265 new radio read meters in zones that have master meters to allow us to see differences between bought and sold water over hours instead of days. And the improved accuracy of the new meter also helps. We plan to continue to change out meters to radio read has this has proved beneficial.

EXHIBIT B

**PSC CASE NO. 2021-0417
RESPONSE TO REQUEST NO. 2 & 3**

Year	2017	2018	2019	2020	2021	
January	9	26	9	8	20	
February	6	10	17	6	11	
March	8	10	13	24	6	
April	18	18	31	20	13	
May	16	32	29	20	16	
June	31	35	20	19	24	
July	20	43	36	26	23	
August	25	25	40	29	31	
September	23	25	27	16	27	
October	20	19	12	13	14	
November	7	9	10	7	12	
December	8	N/A	8	14	8	
Total leaks fixed	191	252	252	202	205	1,102

Type of leaks fixed ; Main line, Service line, Busted meter bottoms, Leak hydrants

Case # 2021-00417 page 3 #2

Number of meters changed to radio read 2,265
Meters Left to change to radio read 6,908
Total Meters = 9173 to date

Case # 2021-00417 page 3 #3 B.
Case # 2021-00417 page 3 #3 C.

Meters tested 1-1-2012 to 12-31 2021 = 8,423

Meters out of Compliance = 750

case # 2021-00417 page 3 #3 A.

PSC CASE NO. 2021-0417

Western Pulaski Co. water Dist.

Meter Test Report

Service Type All Service Types

Meter Number Range All Meter Numbers

Meter Test Date Range 01/01/2012 To 12/31/2021

Report will be printed on a wide carriage printer

Test Date	Tested By	Reason	Testing Method	Reading	Test 1			Test 2			Test 3			
					Flow	Percent Error	Flow Type	Flow	Percent Error	Flow Type	Flow	Percent Error	Flow Type	
Meter Number 08/06/2020	MUELLER	2011209 Periodic	Service Type WT WATER	Before 0 Found After 0 Left	15.00	99.60	Normal	Meter Constant 1.00	2.00	100.60	Normal	0.25	99.70	Normal
Meter Number 08/17/2012	WPCWD	Periodic	Service Type WT WATER	Before 328,242 Found After 328,342 Left	15.00	82.60	Slow	Meter Constant 1.00	2.00	91.00	Slow	0.25	85.00	Slow
Meter Number 03/25/2021	WPCWD/LC/TH	Periodic	Service Type WT WATER	Before 44,950 Found After 45,060 Left	15.00	100.00	Normal	Meter Constant 1.00	2.00	100.00	Normal	0.25	100.00	Normal
Meter Number 06/10/2020	WPCWD/CM/TH	Periodic	Service Type WT WATER	Before 102,220 Found After 102,330 Left	15.00	100.00	Normal	Meter Constant 1.00	2.00	102.00	Fast	0.25	98.00	Slow
Meter Number 12/27/2016	WPCWD/TH	Periodic	Service Type WT WATER	Before 9,728 Found After 9,838 Left	15.00	100.10	Normal	Meter Constant 1.00	2.00	101.00	Normal	0.25	102.00	Normal
Meter Number 02/14/2018	WPCWD/TH/LS	Periodic	Service Type WT WATER	Before 125,989 Found After 125,989 Left	15.00	0.00	Normal	Meter Constant 1.00	2.00	0.00	Normal	0.25	0.00	Normal
Meter Number 12/21/2016	WPCWD/TH	Periodic	Service Type WT WATER	Before 59,754 Found After 59,863 Left	15.00	99.40	Normal	Meter Constant 1.00	0.20	101.00	Normal	0.25	99.00	Normal
Meter Number 08/22/2013	WPCWD	Periodic	Service Type WT WATER	Before 32,310 Found After 32,420 Left	15.00	99.80	Normal	Meter Constant 1.00	2.00	101.00	Normal	0.25	98.00	Slow
Meter Number 01/13/2020	WPCWD/TH	Periodic	Service Type WT WATER	Before 39,765 Found After 39,876 Left	15.00	100.60	Normal	Meter Constant 1.00	2.00	102.00	Normal	0.25	101.00	Normal
Meter Number 10/09/2013	WPCWD	Periodic	Service Type WT WATER	Before 1,147,958 Found After 115,067 Left	15.00	99.20	Normal	Meter Constant 1.00	2.00	101.00	Normal	0.25	98.00	Slow
Meter Number 01/14/2020	WPCWD/TH	Periodic	Service Type WT WATER	Before 10,862 Found After 10,972 Left	15.00	100.20	Normal	Meter Constant 1.00	2.00	102.00	Fast	0.25	101.00	Normal

Test Date	Tested By	Reason	Testing Method	Reading	Test 1			Test 2			Test 3		
					Flow	Percent Error	Flow Type	Flow	Percent Error	Flow Type	Flow	Percent Error	Flow Type
05/29/2016		Before		0 Found	0.00	0.00	Normal	0.00	0.00	Normal	0.00	0.00	Normal
		After		0 Left	0.00	0.00	Normal	0.00	0.00	Normal	0.00	0.00	Normal
Total Meters				8,556	Total Meters Tests 8,423								

EXHIBIT C

PSC CASE NO. 2021-0417

**RESPONSE TO REQUEST 4 REGARDING DOCUMENTS RELIED UPON FOR THE
APPROXIMATE DOLLAR AMOUNT STATED IN THE MAY 11, 2021 LETTER FOR THE
DWSRF REQUEST TO USE RESIDUAL FUNDS, F16-003, IN THE AMONUT OF
\$370,000**

Deron Byrne

From: Murphy, Joel (EEC) <Joel.Murphy@ky.gov>
Sent: Thursday, April 29, 2021 1:16 PM
To: Deron Byrne
Cc: Dials, Lori (EEC); Mohiuddin, Mohammed (EEC); Bickers, Julie (KIA)
Subject: FW: Request to Use Residual Loan Funds; F16-003; Western Pulaski County Water District - Water System Improvements & Replacements
Attachments: Request_to_Use_Residual_Funds.pdf

Deron,

If KIA doesn't have any objections, then DOW is ok with this request.

As noted in your request, plans and specifications will need to be submitted to DOW for review and approval. Also, a new environmental will need to be completed to cover the new work area.

From: Dials, Lori (EEC) <lori.dials@ky.gov>
Sent: Thursday, April 29, 2021 1:01 PM
To: Murphy, Joel (EEC) <Joel.Murphy@ky.gov>
Subject: RE: Request to Use Residual Loan Funds; F16-003; Western Pulaski County Water District - Water System Improvements & Replacements

Yes, they do.

The new portion is not included in the original CED or the Residual Funds 2A CED.

Thanks Lori

Lori Dials
Environmental Scientist
Municipal Planning Section
Water Infrastructure Branch
502-782-6937

From: Murphy, Joel (EEC) <Joel.Murphy@ky.gov>
Sent: Thursday, April 29, 2021 11:18 AM
To: Dials, Lori (EEC) <lori.dials@ky.gov>
Subject: FW: Request to Use Residual Loan Funds; F16-003; Western Pulaski County Water District - Water System Improvements & Replacements

Attached is a request to use residual funds for this project. Could you let me know if this will require another environmental review.

From: Deron Byrne <dbyrne@monarchengineering.net>

Sent: Wednesday, April 28, 2021 9:01 AM

To: KIA SRFLoans <kia.srfloans@ky.gov>

Cc: Bickers, Julie (KIA) <julie.bickers@ky.gov>

Subject: Request to Use Residual Loan Funds; F16-003; Western Pulaski County Water District - Water System Improvements & Replacements

Please see attached Request to Use Residual Loan Funds for Fund F16-003 for Western Pulaski County Water District project: KY Highway 914 Bypass Water Transmission Main. Project will consist of continuing along the WTLO Road/KY Highway 3261 with the 12-Inch water main over to KY Highway 80 for approximately 5,450 LF or until funds are expired based on bidding unit prices. A preliminary estimate is attached along with an updated Project Cost Summary. The remaining estimated funds are approximately \$370,000. The proposed project extension will be Bid.

Deron S. Byrne, P.E.

Monarch Engineering, Inc.

556 Carlton Drive

Lawrenceburg, Kentucky 40342

PH: 502-839-1310

REQUEST TO USE RESIDUAL LOAN FUNDS

Requests are reviewed and approved case-by-case, based on project scope and funding availability. KIA will notify borrowers within 30 days of receipt of this request. Upon approval, the WRIS, Project Profile must be updated to include the additional scope of work and budget information.

1. **Legal Applicant:** WESTERN PULASKI COUNTY WATER DISTRICT
2. **Contact:** DON CALDER Phone: (606) 679-1566 Email: tamora.vaught@gmail.com
3. **Project Title:** CHAIRMAN
4. **Existing Loan Number:** F16-003 WRIS Number: SX/WX WX21199123

5. **Description of work to be performed with residual funds:**

The planned improvements include the installation of approximately 5,450 LF of new 12" water line and appurtenances on WTLO Road/KY Highway 3261 over to KY Highway 80 in Pulaski County, Kentucky. In addition to serving existing residences with potable water service, portions of the new water main will replace an existing undersized 8" water line.

6. **How is the proposed work related to the original scope of the project that was approved by the KIA board?**

The proposed work is consistent with that included in the original project scope approved by the KIA Board. Similar to much of the work included in the original project, this work will replace and/or expand upon existing undersized infrastructure with in the Applicants distributions system. The work is identical to the work included in the original scope. It is an extension of the road and water line that is currently under construction. The only difference is that at the time of design, it was unsure how far project funds, based on estimates and not bids, would allow water line to go. Now that the original scope of work is nearing an end and with the remaining funds, it can be estimated how far project can extend the current project.

7. **Total cost of work to be performed with residual funds:** \$370,000

8. **Will the additional work be advertised for bids or executed via change order? **ADVERTISEMENT FOR BIDS****

Please complete the schedule for the proposed work:

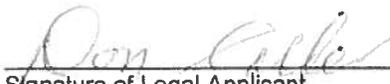
Bid Advertisement	<u>07/05/21</u>
Bid Opening	<u>07/22/21</u>
Contract Award	<u>10/18/21</u>
Construction Start	<u>10/28/21</u>
Construction End	<u>01/30/22</u>

9. **Is the original project complete?** NO **If not, what is the anticipated date for completion?** 05/25/21

10. **What is the anticipated date to administratively close the entire project? (Initiation of Operation, Closeout Cert., etc.)** 01/30/22

To the best of my knowledge and belief, data contained in this request are true and correct; the document has been duly authorized by the legal applicant.

Don Calder, Chairman
Typed Name and Title


Signature of Legal Applicant

April 23, 2021
Date

Project Cost Summary

Project Title: WATER SYSTEM IMPROVEMENTS & REPLACEMENTS-CONTRACT 2: KY HWY 914 BYPASS WL

WRIS#: WX21.199123 (Portions of WX21.199135)

Project Budget: Estimated **As Bid** **Revised** enter date

Cost Classification	SRF KIA Loan	Funding Source 1	Funding Source 2	Funding Source 3	Funding Source 4	Funding Source 5	Local Funds	Unfunded Costs	Total
1 Administrative Expenses	3500								3500
2 Legal Expenses									
3 Land, Appraisals, Easements									
4 Relocation Expenses & Payments									
5 Planning									
6 Engineering Fees -- Design	255903.74								255903.74
7 Engineering Fees -- Construction									
8 Engineering Fees -- Inspection	173182.98								173182.98
9 Engineering Fees -- Other									
10 Construction	2765983.31								2765983.31
11 Equipment									
12 Miscellaneous	33086.75								33086.75
13 Contingencies	72343.59								72343.59
Total	\$3,304,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,304,000

Funding Sources	Amount	Date Committed
1 KIA FUND F16-003	\$3,304,000	11/16/15
2		
3		
4		
5		
Total	\$3,304,000	

Local Funding Sources	Amount	Date Committed
1		
2		
3		
Total	\$0	

Cost Categories	Funding Source	Total Cost
Treatment (DW)		
Transmission and Distribution (DW)	KIA F16-003	\$1,920,879
Source (DW)		
Storage (DW)	KIA F16-003	\$845,104
WWTP Secondary Portion (CW)		
WWTP Advanced Portion (CW)		
Inflow and Infiltration Correction (CW)		
Major Sewer Rehabilitation (CW)		
Collector Sewers (CW)		
Combined Sewer Overflow Correction (CW)		
Interceptor Sewers Including Pump Station (CW)		
Purchase of Systems (DW and CW)		
Restructuring (DW and CW)		
Land Acquisition (DW and CW)		
Total Costs		\$2,765,983

**PRELIMINARY COST ESTIMATE
WESTERN PULASKI COUNTY WATER DISTRICT
PULASKI COUNTY, KENTUCKY
WTLO RD (KY 3261)/CONNECTION FROM WTLO RD TO KY HIGHWAY 80
APRIL 2021**

PROJECT COSTS

DEVELOPMENT	\$280,000.00
CONTINGENCY	28,000.00
ENGINEERING DESIGN	35,000.00
CONSTRUCTION INSPECTION	<u>27,000.00</u>
TOTAL PROJECT COSTS	\$370,000.00

PROJECT FINANCING

KENTUCKY INFRASTRUCTURE AUTHORITY (KIA) FUND F16-003	<u>\$370,000.00</u>
TOTAL PROJECT FINANCING	\$370,000.00

**PRELIMINARY COST ESTIMATE
WESTERN PULASKI COUNTY WATER DISTRICT
PULASKI COUNTY, KENTUCKY
WTLO RD (KY 3261)/CONNECTION FROM WTLO RD TO KY HIGHWAY 80
APRIL 2021**

ITEM NO.	DESCRIPTION	QUANTITY	UNIT COST	TOTAL COST
1	12-Inch PVC SDR 21 Water Line	5,450 LF	40.00	218,000.00
2	Bore & Case for 12-Inch Water Line	100 LF	250.00	25,000.00
3	Free Bore for 12-Inch Water Line	100 LF	70.00	7,000.00
4	12-Inch Gate Valve	2 EA	3,200.00	6,400.00
5	Type II Connection	2 EA	6,800.00	13,600.00
6	3-Way Flush Hydrant	1 EA	5,000.00	5,000.00
7	Exploration	25 HR	200.00	5,000.00
	TOTAL			\$280,000.00

PSC CASE NO. 2021-0417

**RESPONSE TO REQUEST 4 REGARDING DOCUMENTS RELIED UPON FOR THE
APPROXIMATE DOLLAR AMOUNT STATED IN THE MAY 11, 2021 LETTER FOR THE
DWSRF REQUEST TO USE RESIDUAL FUNDS, B20-004, IN THE AMOUNT OF
\$240,000**

Deron Byrne

From: Deron Byrne
Sent: Wednesday, April 28, 2021 8:55 AM
To: 'kia.fundbcloans@ky.gov'
Cc: 'Bickers, Julie (KIA)'
Subject: B20-004 Request to Use Residual Funds
Attachments: Request_to_Use_Residual_Funds.pdf

Please see attached Request to Use Residual Loan Funds for Fund B20-004 for Western Pulaski County Water District project: KY Highway 80/Fishing Creek Bridge WL Replacement. Project will consist of extending the 12-Inch water main replacement in an easterly direction of the Fishing Creek Bridge for approximately 1,125 LF or until funds are expired based on bidding unit prices. A preliminary estimate is attached along with an updated Project Cost Summary. The remaining estimated funds are approximately \$240,000. The proposed project extension will be Bid.

Deron S. Byrne, P.E.

Monarch Engineering, Inc.
556 Carlton Drive
Lawrenceburg, Kentucky 40342
PH: 502-839-1310

Project Cost Summary

Project Title: KY 80/Fishing Creek Bridge Water Line Replacement

WRIS#: WX21199136 (Portion of WX21199135)

Project Budget: Estimated As Bid Revised 04/23/21

Cost Classification	SRF KIA Loan	Funding Source 1	Funding Source 2	Funding Source 3	Funding Source 4	Funding Source 5	Local Funds	Unfunded Costs	Total
1 Administrative Expenses	2292								2292
2 Legal Expenses		3500							3500
3 Land, Appraisals, Easements									
4 Relocation Expenses & Payments									
5 Planning									
6 Engineering Fees - Design	47255.04	93019.87							140274.91
7 Engineering Fees - Construction									
8 Engineering Fees - Inspection	59533.65	32670.44							92204.09
9 Engineering Fees - Other									
10 Construction	980536.87	583163.13							1563700
11 Equipment									
12 Miscellaneous	56382.44								56382.44
13 Contingencies	\$1,146,000	\$712,353	\$0	\$0	\$0	\$0	\$0	\$0	\$1,858,353
Total									

Funding Sources	Amount	Date Committed
1 KIA FUND F20-004	\$1,146,000	09/28/20
2 USDA RD GRANT	\$712,353	02/09/16
3		
4		
5		
Total	\$1,858,353	

Local Funding Sources	Amount	Date Committed
1		
2		
3		
Total	\$0	

Cost Categories	Funding Source	Total Cost
Treatment (DW)		
Transmission and Distribution (DW)		
Source (DW)		
Storage (DW)		
WWTP Secondary Portion (CW)		
WWTP Advanced Portion (CW)		
Inflow and Infiltration Correction (CW)		
Major Sewer Rehabilitation (CW)		
Collector Sewers (CW)		
Combined Sewer Overflow Correction (CW)		
Interceptor Sewers Including Pump Station (CW)		
Purchase of Systems (DW and CW)		
Restructuring (DW and CW)		
Land Acquisition (DW and CW)		
Total Costs		\$0

Total Funding \$1,858,353

**PRELIMINARY COST ESTIMATE
WESTERN PULASKI COUNTY WATER DISTRICT
PULASKI COUNTY, KENTUCKY
KY HIGHWAY 80 & FISHING CREEK BRIDGE WATER LINE REPLACEMENT
APRIL 2021**

PROJECT COSTS

DEVELOPMENT	\$177,825.00
CONTINGENCY	18,175.00
ENGINEERING DESIGN	24,000.00
CONSTRUCTION INSPECTION	<u>20,000.00</u>
TOTAL PROJECT COSTS	\$240,000.00

PROJECT FINANCING

KENTUCKY INFRASTRUCTURE AUTHORITY (KIA) FUND B20-004	<u>\$240,000.00</u>
TOTAL PROJECT FINANCING	\$240,000.00

**PRELIMINARY COST ESTIMATE
 WESTERN PULASKI COUNTY WATER DISTRICT
 PULASKI COUNTY, KENTUCKY
 KY HIGHWAY 80 & FISHING CREEK BRIDGE WATER LINE REPLACEMENT
 APRIL 2021**

ITEM NO.	DESCRIPTION	QUANTITY	UNIT COST	TOTAL COST
1	12-Inch Ductile Iron CL350 Water Line	1,125 LF	125.00	140,625.00
2	Bore & Case for 12-Inch Water Line	30 LF	250.00	7,500.00
3	Free Bore for 12-Inch Water Line	20 LF	70.00	1,400.00
4	12-Inch Gate Valve	1 EA	3,200.00	3,200.00
5	6-Inch Gate Valve	1 EA	2,500.00	2,500.00
6	Type II Connection	2 EA	6,800.00	13,600.00
7	3-Way Flush Hydrant	1 EA	5,000.00	5,000.00
8	Exploration	20 HR	200.00	4,000.00
	TOTAL			\$177,825.00

EXHIBIT D

**CASE NO. 2021-0417
RESPONSE TO REQUEST 5**

Request No 5: Refer to the Application, Exhibit E, Final Project Budget. Reconcile Project Financing stated in this exhibit with the dollar amounts stated in the Exhibit C Letters.

RESPONSE: The Project Financing in the Final Project Budget, dated October 21, 2021, was based on actual residual amounts remaining in Fund F, F16-003, and Fund B, B20-004, upon completion of each project or close to substantial completion. See Response No. 7 - Funds Table and attached Funds Sheets.

At the time of the request to use residual funds from Fund F, F16-003, and Fund B, B20-004 (April 28, 2021 and April 29, 2021), the estimated amounts available were estimated based on what had been completed to date. It was later, after the residual request approval and prior to bidding, that some additional expenses in the form of change orders, summary adjustments, and reimbursements to the District, therefore changing the actual amount of residual funds available as shown below:

Phase 2 – Case No. 2020-00119, Fund F16-003

Est. Remaining Amount per Request (RE: Exhibit C of Application)	\$370,000.00
ACTUAL AMOUNT PER FUNDS SHEET EXPENSES	\$385,571.55
SCADA System Upgrades to New Pump Station	(16,878.00)
Engineering Fees per SCADA Upgrades	(2,216.08)
New Fencing around the New Pump Station	(33,650.66)
Engineering Fees per New Fencing	(4,418.33)
	=====
Total Remaining Residual Funds per Final Project Budget (Exhibit E)	\$328,408.48*
*SEE ATTACHED FUNDS SHEET (F16-003) FOR EXPENSES TO DATE & REMIANING FUNDS	

Case No. 2020-00331, Fund B20-004

Est. Remaining Amount per Request (RE: Exhibit C of Application)	\$240,000.00
ACTUAL AMOUNT PER FUNDS SHEET EXPENSES & CHANGE ORDERS	\$190,428.72
Change Order No. 4 – Additional Pipe Bracing & Retaining Wall	(35,985.00)
Change Order No. 4 – Engineering Fees	(4,893.96)
Change Order No. 5 - Final Bridge Inspection	(42,500.00)
Change Order No. 5 - Engineering Fees	(5,780.00)
	=====
Total Remaining Residual Funds per Final Project Budget (Exhibit E)	\$101,269.76*
*SEE ATTACHED FUNDS SHEET (B20-004) FOR EXPENSES TO DATE & REMIANING FUNDS	

EXHIBIT E

**CASE NO. 2021-0417
RESPONSE TO REQUEST NO. 6**

**WESTERN PULASKI COUNTY WATER DISTRICT
PHASE 1 - WATER SYSTEM IMPROVEMENTS & REPLACEMENTS
HICKORY NUT ELEVATED WATER STORAGE TANK
KIA LOAN NO. F16-003; PSC CASE NO. 2017-00063
BREAKDOWN OF PROJECT COSTS BY USOA
ACCOUNT NUMBER: 330**

ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL COST
1	300,000 Gallon Elevated Water Storage Tank				
	1A) Foundation	1	LS	\$117,100.00	\$117,100.00
	1B) Steel Structure	1	LS	485,030.00	485,030.00
	1C) Appurtenances & Accessories	1	LS	1,000.00	1,000.00
	1D) Tank Disinfection	1	LS	1,000.00	1,000.00
2	Tank Coating System	1	LS	102,000.00	102,000.00
3	Yard Piping & Appurtenances	1	LS	58,000.00	58,000.00
4	Site Work				
	4A) Site Protection (Temporary Site Fencing)	1	LS	1,000.00	1,000.00
	4B) Site Preparation, Grading, & Excavation	1	LS	10,000.00	10,000.00
	4C) Misc. Site Improvements (Access & Parking Area, Lined Ditches)	1	LS	11,000.00	11,000.00
	4D) Final Site Restoration & Cleanup	1	LS	3,000.00	3,000.00
5	Hickory Nut Water Storage Tank Demolition	1	LS	21,500.00	21,500.00
6	Chain Link Fence	1	LS	9,800.00	9,800.00
7	Erosion & Sedimentation Controls	1	LS	1,000.00	1,000.00
8	Surface Conditions				
	8A) Permanent Casing	0	LF	215.00	0.00
	8B) Soil Drilling Below Elev. 1220'	58.8	LF	80.00	4,704.00
	8C) Rock Drilling Below Elev. 1220'	9	LF	280.00	2,520.00
	8D) Additional Concrete Associated with Additional Drilling Below Elev. 1220'	17.8	CY	150.00	2,670.00
	8E) Engineering Inspection of 10'-0" Core for Drilled Piers	1	LS	10,000.00	10,000.00
9	Change Order No. 1	1	LS	3,780.00	3,780.00
CONSTRUCTION TOTAL					\$845,104.00
10	Contingency	1	LS	2,643.25	2,643.25
11	Engineering Design	1	LS	79,203.43	79,203.43
12	Construction Inspection - Engineering	1	LS	51,228.71	51,228.71
13	Geotechnical Investigation	1	LS	19,798.20	19,798.20
14	Surveying	1	LS	5,468.55	5,468.55
15	Archaeological Investigation	1	LS	3,980.00	3,980.00
16	Environmental Assessment	1	LS	7,000.00	7,000.00
TOTAL PROJECT COST					\$1,014,426.14

SUBSTANTIAL COMPLETION DATE: JUNE 1, 2018

**WESTERN PULASKI COUNTY WATER DISTRICT
 PHASE 2 - WATER SYSTEM IMPROVEMENTS & REPLACEMENTS
 CONTRACT 2 - KY HIGHWAY 914 BYPASS WATER TRANSMISSION**

**&
 CONTRACT 2A - HEARTLAND DRIVE/SLATE BRANCH/OAK HILL WATER LINE EXTENSION & RELOCATION
 KIA LOAN NO. F16-003; PSC CASE NO. 2020-00119
 BREAKDOWN OF PROJECT COSTS BY USOA
 ACCOUNT NUMBER: 330**

ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL COST
1	16-Inch Ductile Iron CL350 Water Line	7,391	LF	\$71.70	\$529,938.31
2	12-Inch PVC SDR 21 Water Line	5,760	LF	28.20	162,432.00
3	8-Inch PVC SDR 21 Water Line	0	LF	76.00	0.00
4	Bore & Case for 16-Inch Water Line	650	LF	253.00	164,450.00
5	Bore & Case for 12-Inch Water Line	270	LF	204.00	55,080.00
6	Free Bore for 16-Inch Water Line	40	LF	200.00	8,000.00
7	Free Bore for 12-Inch Water Line	20	EA	150.00	3,000.00
8	16-Inch Butterfly Valve	0	EA	5,546.00	0.00
9	16-Inch Gate Valve	2	EA	8,215.00	16,430.00
10	12-Inch Gate Valve	9	EA	3,215.00	28,935.00
11	8-Inch Gate Valve	3	EA	2,190.00	6,570.00
12	Type II Connection	2	LS	6,854.00	13,708.00
13	Direct Connection	2	LS	2,215.00	4,430.00
14	3-Way Flush Hydrant Assembly	5	LS	5,025.00	25,125.00
15	Master Meter	1	LS	38,600.00	38,600.00
16	Water Booster Pump Station	1	LS	399,000.00	399,000.00
17	Exploration	9	HR	200.00	1,800.00
CONTRACT 2 CONSTRUCTION TOTAL					\$1,457,498.31

ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL COST
1	6-Inch PVC SDR 21 Water Line	2,170	LF	\$13.00	\$28,210.00
2	Bore & Case for 6-Inch Water Line	50	LF	100.00	5,000.00
3	6-Inch Gate Valve	6	EA	1,700.00	10,200.00
4	Type I Connection	1	EA	2,500.00	2,500.00
5	Type II Connection	3	EA	2,000.00	6,000.00
6	3-Way Flush Hydrant	3	EA	4,500.00	13,500.00
7	Meter Reconnection	4	EA	350.00	1,400.00
8	New Meter Setting	3	EA	1,100.00	3,300.00
9	3/4-Inch Service Line Tubing	296	LF	10.00	2,960.00
10	Ex. Meter Removal/Corp Stop Shut-Off	0	EA	100.00	0.00
11	Exploration	3	HR	100.00	300.00
12	Change Order No. 1 Direct. Bore for 4-Inch WL	1	LS	12,000.00	12,000.00
	Change Order No. 3:				
13	12-Inch PVC SDR 21 Water Line	2,330	LF	30.50	71,065.00
14	Bore & Case for 12-Inch Water Line	27	LF	204.00	5,508.00
15	Free Bore for 12-Inch Water Line	95	LF	150.00	14,250.00
16	12-Inch Gate Valve	1	EA	3,215.00	3,215.00
17	Type II Connection	1	EA	6,854.00	6,854.00
18	Direct Connection	1	EA	2,215.00	2,215.00
19	3-Way Flush Hydrant Assembly	0	EA	5,025.00	0.00
CONTRACT 2A CONSTRUCTION TOTAL					\$188,477.00

ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL COST
1	Contingency	1	LS	84,613.32	84,613.32
2	Engineering Design	1	LS	139,917.47	139,917.47
3	Construction Inspection - Engineering	1	LS	85,819.28	85,819.28
4	Surveying	1	LS	1,140.00	1,140.00
5	Environmental Assessment	1	LS	3,700.00	3,700.00
TOTAL PROJECT COST					\$1,961,165.38

CONTRACT 2 SUBSTANTIAL COMPLETION DATE: APRIL 26, 2021
CONTRACT 2A SUBSTANTIAL COMPLETION DATE: APRIL 15, 2021

**WESTERN PULASKI COUNTY WATER DISTRICT
 WATER SYSTEM IMPROVEMENTS & REPLACEMENTS
 KY HIGHWAY 80/FISHING CREEK BRIDGE WATER LINE REPLACEMENT
 KIA LOAN NO. B20-004; PSC CASE NO. 2020-00331
 BREAKDOWN OF PROJECT COSTS BY USOA
 ACCOUNT NUMBER: 330**

ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL COST
1	12-Inch D.I. Flex Restraint Joint WL	1,250	LF	\$359.00	\$448,750.00
2	12-Inch Ductile Iron CL350 Water Line	1,250	LF	120.00	150,000.00
3	12-Inch Ductile Flanged Water Line	100	LF	1,000.00	100,000.00
4	Bore & Case for 12-Inch Water Line	50	LF	450.00	22,500.00
5	12-Inch Gate Valve	2	EA	5,000.00	10,000.00
6	10-Inch Gate Valve	1	EA	4,500.00	4,500.00
7	8-Inch Gate Valve	1	EA	2,500.00	2,500.00
8	Flush Assembly	2	EA	4,500.00	9,000.00
9	Connection	2	EA	5,000.00	10,000.00
10	Pipe Hangers	140	EA	2,900.00	406,000.00
11	Flexible Expansion Joint	4	EA	18,000.00	72,000.00
12	Removal of Existing 10-Inch Water Line	1	LS	68,000.00	68,000.00
13	Remove & Replace Existing Paved Ditches	1	LS	12,000.00	12,000.00
14	Pipe Restraint Wall	2	EA	15,000.00	30,000.00
15	Traffic Control	1	LS	30,000.00	30,000.00
15a	Traffic Control - County Sheriff Detail	135	HR	25.00	3,375.00
16	Exploration	29	HR	250.00	7,250.00
	CHANGE ORDER NO. 1				
17	3-Way Flush Hydrant	1	EA	5,500.00	5,500.00
18	Cut & Cap Existing 8-Inch Water Line	1	EA	2,500.00	2,500.00
	CHANGE ORDER NO. 2				
1	Repair Water Line for WPCWD	1	LS	1,450.00	1,450.00
2	Additional Pipe Joint Insulation	1	LS	12,500.00	12,500.00
3	Pipe Supports for Top of Hanger for Ins. Protect	1	LS	16,100.00	16,100.00
4	Existing Water Line Connections at Existing PS				0.00
4a	3-Inch PVC SDR 17 Water Line	10	LF	15.00	150.00
4b	3-Inch PVC SDR 17 Water Line	10	LF	14.00	140.00
4c	1-HDPE Service Line	10	LF	13.00	130.00
4d	3-Inch Gate Valve	1	EA	4,200.00	4,200.00
4e	2-Inch Gate Valve	1	EA	3,500.00	3,500.00
4f	3-Inch Connection	1	EA	2,800.00	2,800.00
4g	2-Inch Connection	1	EA	2,400.00	2,400.00
4h	1-Inch Service Line Connection	1	EA	1,500.00	1,500.00
4i	Cut & Cap Existing 6-Inch Water Line	1	EA	2,300.00	2,300.00
4j	Cut & Cap Existing 3-Inch Water Line	1	EA	2,100.00	2,100.00
	CHANGE ORDER NO. 3				
1	Concrete Pipe Supports & Straps for Flg Pipe	8	EA	2,500.00	20,000.00
	CHANGE ORDER NO. 4				
1	Pipe Braces for 90° Bends on EA. End of Bridge	2	EA	8,750.00	17,500.00
2	Retaining Wall on Each End of the Bridge	2	EA	7,850.00	15,700.00
3	Drain Existing Water Line	1	LS	1,985.00	1,985.00
4	Repair Water Line for WPCWD	1	LS	800.00	800.00
	CHANGE ORDER NO. 5				
1	One Year Bridge Inspection	1	LS	42,500.00	42,500.00
CONSTRUCTION TOTAL					\$1,541,630.00
10	Contingency		1 LS	0.00	0.00
11	Engineering Design		1 LS	129,342.75	129,342.75
12	Construction Inspection - Engineering		1 LS	80,318.93	80,318.93
13	KIA Administration Fee (0.20%)		1 LS	2,292.00	2,292.00
14	Legal		1 LS	3,500.00	3,500.00
TOTAL PROJECT COST					\$1,757,083.68

SUBSTANTIAL COMPLETION DATE: MAY 13, 2021