



STATE OF WEST VIRGINIA  
DEPARTMENT OF HEALTH AND HUMAN RESOURCES  
Bureau for Public Health  
Office of Environmental Health Services

Bill J. Crouch  
Cabinet Secretary

Ayne Amjad, MD, MPH  
Commissioner & State Health Officer

**MEMORANDUM**

**TO:** Marie Prezioso, Funding Committee  
WV Infrastructure and Jobs Development Council

**FROM:** Meredith J. Vance  
Water Technical Review Committee

**DATE:** November 22, 2022

**RE:** Parkersburg Utility Board  
IJDC Application- **2022W-2250**  
Water Treatment Plant Improvements  
Wood County

---

1. The Committee has reviewed the pre-application and preliminary engineering report submitted for the above referenced project in accordance with Chapter 31, Article 15-A. It has been determined that the project is:
    - a.  Consistent with the intent of the Infrastructure and Jobs Development Act and is the most cost-effective and environmentally sound alternative for solving the drinking water needs in this area.
    - b.  Consistent with the Act but may not be the most cost-effective and environmentally sound alternative for solving the drinking water needs in this area.
    - c.  Consistent with the intent of the Act and most cost-effective and environmentally sound alternative for solving the drinking water needs in this area **except** that certain issues need to be addressed prior to design and construction, as the attached comments indicate.
  
  2. Our recommendation is that:
    - a.  The Funding Committee needs to review the proposed sources of funding to determine the best mix of grant and/or loan funds in accordance with applicable guidelines.
-

- b. \_\_\_\_\_ The Funding Committee should recommend that Council approve the proposed project and its funding plan.
  - c. \_\_\_\_\_ The Funding Committee does not need to review the funding assumptions on this project because of deficiencies in the application. The proposed project funding should be postponed until technical comments have been resolved.
  - d. \_\_\_\_\_ The project to be referred to the Consolidation Committee.
3. Other remarks:

**Comment:**

This preliminary application appears technically feasible.

This Preliminary Application proposes to expand treatment capabilities at the water treatment plant to address the updated interim health advisory level (HAL) for perfluorooctanoic acid (PFOA) and perfluorooctane sulfonate (PFOS) in the drinking water.

The proposed funding package includes a DWTRF Emerging Contaminants Principal Forgiveness: \$12,632,200.

The total project cost is **\$12,632,200.00**.

**Funding Note:**

The DWTRF funding loan/PF portions may have to be adjusted based on availability.

pc: To be distributed at the Funding Committee Meeting

STATE OF WEST VIRGINIA  
DEPARTMENT OF HEALTH AND HUMAN RESOURCES  
Bureau for Public Health  
Office of Environmental Health Services

Bill J. Crouch  
Cabinet Secretary

Ayne Amjad, MD, MPH  
Commissioner & State Health Officer

**MEMORANDUM**

**TO:** Meredith J. Vance, Director  
Environmental Engineering Division

**FROM:** Christopher Thomas, EIT  
Infrastructure & Capacity Development



**DATE:** November 22, 2022

**SUBJECT:** Parkersburg Utility Board  
IJDC Application- **2022W-2250**  
Water Treatment Plant Improvements  
Wood County

**Recommendation:**

This preliminary application appears technically feasible and is recommended to be forwarded to the Funding Committee.

**Project Scope:**

This Preliminary Application proposes to expand treatment capabilities at the water treatment plant to address the updated interim health advisory level (HAL) for perfluorooctanoic acid (PFOA) and perfluorooctane sulfonate (PFOS) in the drinking water.

The cost per customer is **\$793** for the project. The total project cost is **\$12,632,200.00**. (DWTRF Emerging Contaminants Principal Forgiveness: \$12,632,200).

**Need for the Project:**

On June 15, 2022, USEPA reduced the HAL for PFOA and PFOS to interim levels of 0.004 ppt and 0.02 ppt respectively. For the past twenty years, PUB has systematically tested its raw water wells for the presence of PFOA. Based upon historic levels of PFOA and PFOS in the Parkersburg Utility Board's (PUB) drinking water, additional treatment will be required to meet the interim HAL.

**Concerns:**

None

**Permits:**

A permit will be required from the WV Bureau for Public Health prior to construction.

**Engineering:** 6.34% for design, 9.8% for total.

The Design Fees vs. Construction Cost for modifications is below both the average complexity curve and the very complex curve. The Total Fees vs. Construction Cost for modifications is below both the average complexity curve and the very complex curve.

A fee waiver **will not be** required for this project.

**Asset Management Plan and Annual Maintenance Audit:**

The Parkersburg Utility Board preliminary infrastructure application indicates that they are seeking DWTRF monies. The system indicates in the application that they do have an asset management plan. The Parkersburg Utility Board has an Asset Management Plan that was approved by the BPH in 2014.

**Capacity Development:**

The question about having had a capacity development assessment (CDA) within the last 5 years was marked as yes. An assessment was conducted at the system in August 2020.

Additional information that may be helpful to the IJDC in their decisions regarding approval of this project relates to the system's overall compliance. The Parkersburg Utility Board has a score of 8 on the July 2022 quarter of the EPA's Compliance Tracking Tool (ETT). The system has some unresolved compliance issues, including the following:

- Failure to address Sanitary Survey Deficiencies from 2021.

Based upon information from the Municipal Bond Commission, as of September 2022, the Parkersburg Utility Board is current on their water reserve funding requirements.

**IJDC Ranking:**

- Public Health Benefit: 5
- Compliance: 10



STATE OF WEST VIRGINIA  
DEPARTMENT OF HEALTH AND HUMAN RESOURCES  
Bureau for Public Health  
Office of Environmental Health Services

Bill J. Crouch  
Cabinet Secretary

Catherine C. Siemp, MD, MPH  
Commissioner & State Health Officer

**MEMORANDUM**

**TO:** Meredith Vance, Division Director  
Environmental Engineering Division

**FROM:** Valerie A. Plance, ERS III *VAP 11/1/22*  
Capacity Development Program

**DATE:** October 31, 2022

**RE:** Parkersburg Utility Board (PWSID# 3305407)  
IJDC Application No.: 2022W-2250  
Wood County

The Parkersburg Utility Board preliminary infrastructure application indicates that they are seeking DWTRF monies. The system indicates in the application that they do have an asset management plan. The Parkersburg Utility Board has an Asset Management that was approved by the BPH in 2014.

The question about having had a capacity development assessment (CDA) within the last 5 years was marked as yes. An assessment of the system was performed in August 2020.

Additional information that may be helpful to the IJDC in their decisions regarding approval of this project relates to the system's overall compliance. The Parkersburg Utility Board has a score of eight on the July 2022 quarter of the EPA's Compliance Tracking Tool (ETT.) The system has some unaddressed compliance issues including:

- Failure to address sanitary survey issues in 2021

Based upon information from the Municipal Bond Commission, as of September 2022, the Parkersburg Utility Board is current on their water reserve funding requirements.

If you require further information from the capacity development program, please contact me.

VAP

## OEHS District Review for Infrastructure Council Water Projects

Water System:	<b>CITY OF PARKERSBURG</b>		IJDC Number:	<b>2022W-2250</b>
Project Description:	<b>Water Treatment Plant Improvements</b>		Review by:	<b>Bob Smith</b>
County:	<b>Wood</b>		Date:	<b>October 21, 2022</b>

<u>No.</u>	<u>Review Criteria</u>	<u>Yes</u>	<u>No</u>	<u>N/A</u>	<u>Comments (Especially if No is indicated or providing a DWTRF score)</u>
1.	Does the district agree that the project scope seems to be the most feasible solution?	✓			
2.	Is this the most practical project to correct the problem stated in the application?	✓			
3.	Does the project solve the major operation maintenance problems in the water system?	✓			
4.	Does the project eliminate deficiencies noted in the sanitary survey?	✓			
5.	Should these improvements be made to this system versus another system that could serve the same area?	✓			
6.	The application has an alternative in it evaluating the most likely consolidation option?	✓			
7.	Do you agree with the need statement for the project?	✓			
8.	Has the engineer included all justification (that you are aware of) in the project application?	✓			
9.	Is the management of the water system capable of completing this project?	✓			
10.	Other comments				

<u>No.</u>	<u>Review Criteria</u>	<u>Yes</u>	<u>No</u>	<u>N/A</u>	<u>Comments (Especially if No is indicated or providing a DWTRF score)</u>
11.	For new projects or projects with revised scope provide DWTRF Priority Ranking Public Health Score (Indicate score in the comments section with explanation)?				DWTRF Priority Ranking Public Health Score
12.	For new projects or projects with revised scope provide DWTRF Priority Ranking Compliance Score (Indicate score in the comments section with explanation)?				Public Health Score is: 10 Compliance Score is: 10 Affordability Score is: 5 Total Points: 25




west virginia department of environmental protection

Division of Water and Waste Management  
601 57th Street SE  
Charleston, WV 25304-2345  
Telephone Number: (304) 926-0495  
Fax Number: (304) 926-0497

Harold D. Ward, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

**MEMORANDUM**

**MEMO TO:** Meredith J. Vance  
Office of Environmental Health Services  
Bureau for Public Health

**FROM:** John M. Perkins   
Supervisor  
General Permits & Support Team

**DATE:** October 25, 2022

**SUBJECT:** Infrastructure Preliminary Application for the Parkersburg Utility Board  
(2020W-2250): Water Treatment Plant Improvements in Wood County, WV.

We have reviewed the above referenced project application information. The Parkersburg Utility Board discharges its backwash to its site, which is covered under WV/NPDES Permit No. WV0023213, and expires June 30, 2023.

If the Parkersburg Utility Board is considering repairing and painting an existing water treatment plant or storage tanks, then the scope of this project requires precautions to prevent contamination of the waters of the state. Prior to beginning any removal of old paint, the Parkersburg Utility Board should contact Mr. Jeremy Bandy or a member of his staff at (304)-926-0499, extension 43894 for guidance in determining whether the paint to be removed is considered a hazardous waste. If so, proper containment and disposal procedures must be followed for the paint and any material associated with the sand blasting. If it is determined that the paint is not hazardous, the Parkersburg Utility Board should contact Yogesh Patel or a member of his staff at (304)-926-0499, extension 43877 for proper disposal options.

Construction activities with a disturbed area of one (1) acre or greater are now required to register for the NPDES Storm Water Construction General Permit No. WV0115924 that became effective on March 9, 2019. Projects registered under the previous General Permit No. WV0115100 were automatically provided coverage under WV/NPDES General Permit

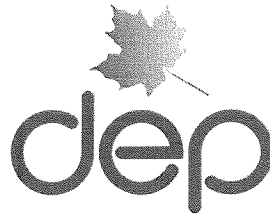


No. WV0115924. For more information, they may contact Larry Board at (304)-926-0499, extension 43883.

In light of the above, we have no objection to this project as long as the appropriate provisions are taken to assure compliance with Chapter 22, Article 11, of the Code of West Virginia and any associated regulations. The responsible party may contact Mylinda Maddox (304) 926-0499 ext. 43825, should additional information be required.

JMP:mam

cc: Katheryn Emery



---

west virginia department of environmental protection

---

Office of Abandoned Mine Lands & Reclamation  
601 57<sup>th</sup> Street SE  
Charleston, WV 25304

Harold D. Ward, Cabinet Secretary  
dep.wv.gov

## MEMORANDUM

**To:** Christopher Thomas, EIT  
Infrastructure and Capacity Development

**From:** Roger A. Earle, P.E., Waterline Coordinator *RAE*  
Office of Abandoned Mine Lands & Reclamation

**Date:** November 10, 2022

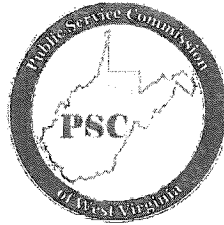
**Subject:** City of Parkersburg – WTP Improvements  
IJDC Preliminary Application: 2022W-2250

AML does not participate in routine improvements or replacement of existing systems.  
Therefore, AML funds will not be available for this project.

# Public Service Commission of West Virginia

201 Brooks Street, P.O. Box 812  
Charleston, West Virginia 25323

Phone: (304) 340-0300  
Fax: (304) 340-0325



November 15, 2022

Meredith J. Vance  
Office of Environmental Health Services  
350 Capitol Street, Room 313  
Charleston, West Virginia 25301-3713

Re: Public Service Commission Staff Review Comments  
Application No. 2022W-2250  
Parkersburg Utility Board - Water  
Infrastructure Preliminary Application

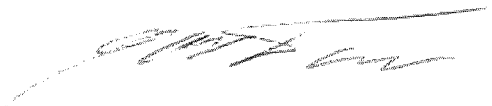
Dear Ms. Vance:

As requested, the Technical Staff of the Public Service Commission of West Virginia has completed its review of the above-referenced Infrastructure application. In light of Technical Staff's comments enclosed herewith, we are recommending the application be:

- forwarded to the Funding Committee  
 forwarded to the Consolidation Committee  
 returned to the Applicant

Please advise if you have any questions.

Sincerely,



Jonathan M. Fowler, P.E.  
Engineering Division

JMF:vb

**PUBLIC SERVICE COMMISSION STAFF  
TECHNICAL REVIEW**

**DATE:** November 14, 2022

**PROJECT SPONSOR:** PARKERSBURG UTILITY BOARD - WATER

**PROJECT SUMMARY:** Project will expand treatment capabilities at the water treatment plant to address the updated interim health advisory level (HAL) for perfluorooctanoic acid (PFOA) and perfluorooctane sulfonate (PFOS) in the drinking water.

**PROPOSED FUNDING:** DWTRF EC in Small or Disadvantage Communities Grant \$12,630,000

**CURRENT RATES:** \$29.69 3,400 gallons  
\$33.03 4,000 gallons

**PROPOSED RATES:** \$32.00 3,400 gallons  
\$35.60 4,000 gallons

Application No. 2022W-2250

**RECOMMENDATION:**  forward to the Funding Committee.  
 forward to the Consolidation Committee.  
 return to the Applicant.

**FINANCIAL:** Alex Kovarik

1. Current rates (\$29.69 for 3,400 gallons) are below the rates attributable to 1.25% (\$39.51), 1.5% (\$47.42), 1.75% (\$55.32), and 2.0% (\$63.22) of the Median Household Income (MHI). Increasing current rates to 1.25%, 1.5%, 1.75%, and 2.0% of the MHI would provide additional revenues of \$2,361,511, \$4,260,881, \$6,160,250 and \$8,059,619 respectively.
2. Using Scenario 1, the preferred funding package consisting of a DWTRF EC in Small/Disadvantaged Communities Grant of \$12,630,000, proposed rates (\$32.00 for 3,400 gallons) will provide a cash flow surplus of \$984,652 and debt service coverage of 301.25%.

3. Using the Scenario 2 alternate loan package of \$12,630,000 (in uncommitted funds) at 5% for 40 years (paid back over 38 years), proposed rates (\$34.76 for 3,400 gallons) will provide a cash flow surplus of \$801,625 and debt service coverage of 205.04%.

#### 4. NOTES TO COMMENTS

- A. Staff's detailed adjustments are listed on Attachment A for Scenario 1 (Preferred Funding Package) and Attachment B for Scenario 2 (Loan Package).
- B. Staff prepared the attached Cash Flow Analysis utilizing information from the applicant's cash flows submitted with the application.
- C. Staff notes the applicant submitted Cash Flows based on the year ended June 30, 2022, but has not submitted a 2022 PSC Annual Report.
- D. Staff notes that the project sponsor requested a Draft Rule 42 waiver and did not include a Rule 42 Exhibit.
- E. The \$29.69 (3,400 gallons) rates became effective for all bills rendered on and after July 1, 2022. Staff included the appropriate adjustments in its analysis.
- F. Senate Bill 234, effective June 12, 2015, required water and sewer utilities that are political subdivisions of the state to maintain a cash working capital reserve in an amount of no less than one-eighth (1/8) of actual annual operation and maintenance expenses. It should be noted that the cash flows provided by the project sponsor include funding for the 1/8 cash working capital reserve. Staff accepted that amount in its analyses. However, this amount may be reviewed by the Commission in future filings in accordance with Public Service Commission General Order 183.11.
- G. Parkersburg Utility Board should carefully evaluate its revenue requirements before passing a rate ordinance in order to ensure that rates are sufficient to provide a reasonable surplus and meet coverage requirements. Staff notes that the City is a political subdivision of the state and it has at least 4,500 customers and annual gross revenues of \$3 million or more. Therefore, in accordance with Senate Bill 234, effective June 12, 2015, the Commission has no jurisdiction regarding the City's

rates pursuant to WV Code 24-2-4b. However, the Commission does have jurisdiction pursuant to WV Code 24-2-1 (b)(6) for the investigation and resolution of disputes involving political subdivisions of the state regarding inter-utility agreements, rates, fees and charges, service areas and contested utility combinations.

**ENGINEERING:** Mansour Mashayekhi

1. This project will not require a Certificate of Convenience and Necessity from the PSC. (See financial comment "G" above.)
2. **Scope:** Project will expand treatment capabilities at the water treatment plant to address the updated interim health advisory level (HAL) for perfluoro-octanoic acid (PFOA) and Perfluoro-octane sulfonate (PFOS) in the drinking water. The estimated cost of the project is \$12,632,000. The proposed project will be funded by a grant of \$12,630,000 from DWTRF for small or disadvantaged communities.
3. **Need for Project:** Interim HAL (health advisory levels) developed by the USEPA are meant to identify the amount of chemical a person can be exposed to for 70 years without causing adverse health impacts. Based upon historic levels of PFOA and PFOS in the PUB drinking water, additional treatment will be required to meet the interim HAL requirements (reduced from 400 ppb to 70 ppb). The proposed GAC system will adsorb organic pollutants from water to an acceptable level (<70 ppb) and provide safe reliable water for customers of the PUB.
4. **Customer Density:** Customer density for existing 15,928 existing customers will remain unchanged.
5. **Cost per Customer:** Based upon the estimated project cost of \$12,632,000, and having approximately 15,928 existing customers, the cost per customer will be approximately \$793. However, the project is entirely grant funded. Therefore, current customers bear no capital project cost related expenses.
6. **Project Feasibility:** This project appears to be technically feasible and poses little technical risk.

7. **Project Alternatives:** Two Alternatives were considered: Granular Activated Carbon Alternative (GAC) and Ion Exchange Alternative (IEA). The PUB has selected to install new granular activated carbon (GAC) system sized for approximately 8.0 million gallons per day (MGD).
8. **Permits Required:** It is anticipated that the proposed improvement project will require the following permits: Bureau for Public Health (Permit to Construct, Alter or Renovate a Public Water Supply System) and West Virginia Department of Environmental Protection (WVDEP) NPDES General Storm Water Construction Permit.
9. **Consolidation:** There are no consolidation issues with the selected alternative.
10. **Inconsistencies:** None was noticed for this project.
11. **Operation and Maintenance (O&M) Expenses:** Estimated annual OM&R costs for the proposed improvements include the following: GAC replacement, supplies for routine maintenance and testing costs, Labor associated with the system, Additional electric consumption, and Equipment replacements. The total estimated additional O&M expenses is expected to increase by approximately \$720,300 per year to an annual total O&M expenses of \$4,800,719.
12. **Engineering Agreement:** The applicant has provided documentation relative to compliance with West Virginia Code §5G-1-1, et seq. Based on the filing, the total design fees for engineering services are \$715,800 at estimated construction cost of \$11,290,000. This is approximately 6.34% of the construction costs as shown on the application.

PARKERSBURG UTILITY BOARD - WATER  
CASH FLOW ANALYSIS  
YEAR ENDED: June 30, 2022  
APPLICATION NO: 2022W-2250  
November 14, 2022

PREFERRED FUNDING PACKAGE  
SCENARIO 1

	Rule 42 Going Level Per Application Before Project	Rule 42 Proforma Per Application with Project	Staff Adjustments	Per Staff Analysis
	1	2	3	4
	\$	\$	\$	\$
<b><u>AVAILABLE CASH</u></b>				
Operating Revenues	7,006,062	7,519,387	(619,498) (1)	6,899,889
Other Operating Revenue	170,137	170,137	-	170,137
SB 234 Annual Working Cash Collections			619,498 (2)	619,498
Interest Income & Other Misc.	16,158	16,158	-	16,158
<b>Total Cash Available</b>	<b>7,192,357</b>	<b>7,705,682</b>	<b>-</b>	<b>7,705,682</b>
<b><u>OPERATING DEDUCTIONS</u></b>				
Operating Expenses	4,040,113	4,800,719	-	4,800,719
Taxes	155,266	155,266	-	155,266
<b>Total Cash Requirements Before Debt Service</b>	<b>4,195,379</b>	<b>4,955,985</b>	<b>-</b>	<b>4,955,985</b>
<b>Cash Available for Debt Service (A)</b>	<b>2,996,978</b>	<b>2,749,697</b>	<b>-</b>	<b>2,749,697</b>
<b><u>DEBT SERVICE REQUIREMENTS</u></b>				
Principal & Interest (B)	870,178	912,776	-	912,776
Other Debt	-	-	-	-
Reserve Account @ 10%	-	56,020	-	56,020
Renewal & Replacement Fund (2.5%)	359,618	385,284	(208,533) (3)	176,751
<b>Total Debt Service Requirement</b>	<b>1,229,796</b>	<b>1,354,080</b>	<b>(208,533)</b>	<b>1,145,547</b>
<b>SB 234 Cash Working Capital</b>	<b>524,422</b>	<b>619,498</b>	<b>-</b>	<b>619,498</b>
<b>Remaining Cash</b>	<b>1,242,760</b>	<b>776,119</b>	<b>208,533</b>	<b>984,652</b>
<b>Percent Coverage (A) / (B)</b>	<b>344.41%</b>	<b>301.25%</b>		<b>301.25%</b>
Average rate for 3,400 gallons	\$ 29.69	\$ 32.00	\$ -	\$ 32.00
Average rate for 4,000 gallons	\$ 33.03	\$ 35.60	\$ -	\$ 35.60



**PARKERSBURG UTILITY BOARD - WATER  
CASH FLOW ANALYSIS  
YEAR ENDED: June 30, 2022  
APPLICATION NO: 2022W-2250**

**Attachment A  
PREFERRED FUNDING PACKAGE  
SCENARIO 1**

**Staff Adjustments**

<u>Adjustment Description</u>			\$	Increase <Decrease>
(1)	<b>Operating Revenues</b>	<b>Per Staff Analysis</b>	6,899,889	(619,498)
		<b>Per Application with Project</b>	7,519,387	
	Adjust revenues in accordance with PSC General Order 183.11.			
(2)	<b>SB 234 Annual Working Cash Collections</b>	<b>Per Staff Analysis</b>	619,498	619,498
		<b>Per Application with Project</b>	-	
	Account for SB 234 (2015) funding pursuant to PSC General Order 183.11.			
(3)	<b>Renewal &amp; Replacement Fund (2.5%)</b>	<b>Per Staff Analysis</b>	176,751	(208,533)
		<b>Per Application with Project</b>	385,284	
	Staff used 2.5% of the projection of "Operating & Other Revenues" as the basis of the renewal & replacement fund.			

PARKERSBURG UTILITY BOARD - WATER  
 CASH FLOW ANALYSIS  
 YEAR ENDED: June 30, 2022  
 APPLICATION NO: 2022W-2250  
 November 14, 2022

LOAN PACKAGE  
 SCENARIO 2

	Rule 42 Going Level Per Application Before Project	Rule 42 Proforma Per Application with Project	Staff Adjustments	Per Staff Analysis
	1	2	3	4
	\$	\$	\$	\$
<b>AVAILABLE CASH</b>				
Operating Revenues	7,006,062	8,176,421	(619,498) (1)	7,556,923
Other Operating Revenue	170,137	170,137	-	170,137
SB 234 Annual Working Cash Collections			619,498 (2)	619,498
Interest Income & Other Misc.	16,158	16,158	-	16,158
<b>Total Cash Available</b>	<b>7,192,357</b>	<b>8,362,716</b>	<b>-</b>	<b>8,362,716</b>
<b>OPERATING DEDUCTIONS</b>				
Operating Expenses	4,040,113	4,800,719	-	4,800,719
Taxes	155,266	155,266	-	155,266
<b>Total Cash Requirements Before Debt Service</b>	<b>4,195,379</b>	<b>4,955,985</b>	<b>-</b>	<b>4,955,985</b>
Cash Available for Debt Service (A)	2,996,978	3,406,731	-	3,406,731
<b>DEBT SERVICE REQUIREMENTS</b>				
Principal & Interest (B)	870,178	1,643,593	17,943 (3)	1,661,536
Other Debt	-	-	-	-
Reserve Account @ 10%	-	4,260	126,636 (4)	130,896
Renewal & Replacement Fund (2.5%)	359,618	418,136	(224,959) (5)	193,177
<b>Total Debt Service Requirement</b>	<b>1,229,796</b>	<b>2,065,989</b>	<b>(80,380)</b>	<b>1,985,608</b>
SB 234 Cash Working Capital	524,422	619,498	-	619,498
<b>Remaining Cash</b>	<b>1,242,760</b>	<b>721,244</b>	<b>80,380</b>	<b>801,625</b>
Percent Coverage (A) / (B)	344.41%	207.27%		205.04%
Average rate for 3,400 gallons	\$ 29.69	\$ 34.76	\$ -	\$ 34.76
Average rate for 4,000 gallons	\$ 33.03	\$ 38.67	\$ -	\$ 38.67

**PARKERSBURG UTILITY BOARD - WATER  
CASH FLOW ANALYSIS  
YEAR ENDED: June 30, 2022  
APPLICATION NO: 2022W-2250**

**Attachment B  
LOAN PACKAGE  
SCENARIO 2**

**Staff Adjustments**

<u>Adjustment Description</u>			\$	Increase <Decrease>
(1)	<b>Operating Revenues</b>	<b>Per Staff Analysis</b>	<b>7,556,923</b>	<b>(619,498)</b>
		<b>Per Application with Project</b>	<b>8,176,421</b>	
	Adjust revenues in accordance with PSC General Order 183.11.			
(2)	<b>SB 234 Annual Working Cash Collections</b>	<b>Per Staff Analysis</b>	<b>619,498</b>	<b>619,498</b>
		<b>Per Application with Project</b>	<b>-</b>	
	Account for SB 234 (2015) funding pursuant to PSC General Order 183.11.			
(3)	<b>Principal &amp; Interest</b>	<b>Per Staff Analysis</b>	<b>1,661,536</b>	<b>17,943</b>
		<b>Per Application with Project</b>	<b>1,643,593</b>	
	The difference in P&I is related to Staff's calculation of a loan of \$12,630,000 for 40 years (paid over 38 years) at 5%.			
(4)	<b>Reserve Account @ 10%</b>	<b>Per Staff Analysis</b>	<b>130,896</b>	<b>126,636</b>
		<b>Per Application with Project</b>	<b>4,260</b>	
	Staff assumed a 10% reserve on the new debt.			
(5)	<b>Renewal &amp; Replacement Fund (2.5%)</b>	<b>Per Staff Analysis</b>	<b>193,177</b>	<b>(224,959)</b>
		<b>Per Application with Project</b>	<b>418,136</b>	
	Staff used 2.5% of the projection of "Operating & Other Revenues" as the basis of the renewal & replacement fund.			