



2020 NEEDS ASSESSMENT

DRAFT

WV INFRASTRUCTURE AND JOBS DEVELOPMENT COUNCIL

DECEMBER 2020

WV IJDC Executive Director Copy

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INTRODUCTION

The West Virginia Infrastructure and Jobs Development Council was established in 1994 under the West Virginia Infrastructure and Jobs Development Act, Chapter 31-15A of the West Virginia Code. The Council is a governmental instrumentality of the State. Its primary role is to evaluate requests from project sponsors seeking to plan, acquire, design, and construct water, sewer, and economic development projects within the State and to approve funding for those projects.

This assessment was conducted pursuant to the requirements contained in Chapter 31-15A-6(b) of the WV Code:

- 1) The Council is required to develop a comprehensive Statewide inventory of water supply systems and sewage treatment systems and an assessment of current and future needs;
- 2) The assessment identifies the areas of the State which do not have adequate public water or sewage systems;
- 3) Offers recommendations for the construction of new facilities or the extension or expansion of existing facilities to meet the identified needs;
- 4) It includes an identification of the obstacles, issues and problems which prevent or inhibit development of adequate infrastructure throughout the State, including financial, governmental, physical, or geographical factors and make recommendations that the Council considers appropriate regarding the obstacles, issues or problems identified; and
- 5) The comprehensive inventory and assessment shall be updated at least once in every three-year period beginning in 1996.

In 2011 the Council, in conjunction with the West Virginia Water Development Authority, implemented a statewide Geographic Information System (GIS) to achieve the following goals related to water and sewer infrastructure:

- Establish a database for existing water and sewer facilities, general locations, and service areas;
- Provide a means to continually update the database as new facilities are proposed and constructed;
- Provide an electronic tracking mechanism for funding applications and project status; and
- Provide the Council with situational awareness to support its decision-making process.

This assessment relies heavily on the data acquired from the GIS system in its inventory of existing water and sewer systems.

Data relied upon in this report is current as of December 31, 2020.

EXECUTIVE SUMMARY

Use of the GIS database

In conjunction with its GIS implementation, the Council collected location data on all known existing public (government and privately owned) water and sewer systems within the State. This data includes the location of treatment facilities, as well as the general locations of water distribution and sewer collection lines. The water distribution and sewer collection lines data is available to the public via the Council's website at www.wvinfrastructure.com. Although the GIS data provides the State with the most accurate information obtained to-date, the following limitations must be noted for purposes of this assessment:

- 1) The GIS relies on the location of known structures (addressable structures which are updated periodically, at least every three years) to approximate the served and unserved population. Therefore, the accuracy may be impacted by structures that are uninhabited, removed or built between updates;
- 2) In establishing the locations of existing water and sewer lines, the GIS relies on records obtained from utilities who own and/or operate those facilities. In some areas, data gaps remain because of missing, unreliable, or unavailable utility records;
- 3) The data provides the location of existing water and sewer lines generally. It does not provide a resolution of detail required to conduct design analysis, i.e., locate manholes, valves, pump stations, pipe sizes, storage tanks, or hydraulic information;
- 4) The Council updates the existing inventory database whenever a project application is filed by requiring Project Sponsors to provide preliminary maps of the project, and the public IJDC website portal is updated to show the project location (blue spigot for water and red outfall for sewer). By clicking on the project, the public can find out the project description, estimated cost, funding scenario, number of new customers served, and project team members by company name and telephone number. However, not all water and sewer projects are required to be filed with the Council and therefore many projects may not be added to the database during the Council's application approval process. The Council is working with others to obtain this GIS information for water and sewer systems in order to be able to provide a more complete database.

Served and Unserved Areas

Public water systems - approximately 63% of the State's structures are served by a public water system. The number of customers served by public water utilities in West Virginia is approximately 639,951.

Public sewer systems – approximately 47% of the State's structures are served by a public sewer system. The number of customers served by public sewer utilities in West Virginia is approximately 441,388.

The unserved areas within the State vary considerably between Counties. Appendix F provides a summary of served and unserved structures within the State, while GIS data is provided graphically in Appendix G.

Current/Future Needs

Current funding needs for water and sewer infrastructure based on applications filed with, and approved by, the Council are approximately \$344 Million for water projects and \$339 Million for sewer projects. In addition, based on the list of Long-Term Control Plans (LTCPs) filed with WVDEP, the requirement to satisfy the State's Combined Sewer Overflows (CSOs) need exceeds \$1.7 Billion. Since many of the LTCPs involve construction of sanitary sewers which qualify for Council funding, and the combined sewers then become stormwater sewers, the estimate is over \$1.0 Billion to satisfy CSOs need.

Projected future needs assume a goal of serving every customer in the State. Based on assumptions made, the cost of providing water service to every remaining unserved household in the State is approximately \$2.6 Billion. For sewer service, the estimate is approximately \$11.4 Billion. If rehabilitation work is considered in the estimate, the need may be approaching approximately \$18 Billion.

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EXISTING SYSTEM INVENTORIES

Public Water Utilities

A list of existing water systems and the customers served by each are provided in Appendix A. In total, there are 310 public water utilities operating in the State serving approximately 639,951 customers.

In terms of structures, the number of structures within the State that have water service available is approximately 617,978.

Public Sewer Utilities

A list of existing sewer systems and the customers served by each are provided in Appendix B. In total, there are 288 public sewer utilities operating in the State serving approximately 441,388 customers.

The number of structures within the State that have sewer service available is approximately 454,552.

The following table provides a summary of existing systems (utilities) throughout the State:

| | WATER | SEWER |
|---------------------------------|---------|---------|
| Existing utilities ₁ | 310 | 288 |
| Customers served ₁ | 639,951 | 441,388 |
| Served structures | 617,978 | 454,552 |
| Unserved structures | 358,906 | 522,332 |
| Percent structures served | 63% | 47% |

1) 2019 Statistical Report, Public Service Commission of West Virginia

Also provided in Appendix F is a listing of served and unserved structures in the State, organized by the following geographical and political boundaries:

- County
- Congressional Districts
- Regional Planning and Development Council Areas
- Senatorial Districts
- House Districts

ASSESSMENT OF CURRENT NEEDS

Public Water Systems

Current applications

A list of water project applications received as of 12/31/20 is provided in Appendix C. This includes all preliminary applications approved by the Council as technically feasible, but without committed funding as of 12/31/20. The total estimated costs of these projects exceed \$402 Million, where approximately \$58 Million has been committed from other funding sources. The total estimate of current needs for water systems; therefore, is approximately \$344 Million.

Public Sewer Systems

Current applications

A list of sewer project applications approved as of 12/31/20 is provided in Appendix D. This includes all preliminary applications approved by the Council as technically feasible, but without committed funding as of 12/31/20. The total estimated cost of these projects exceeds \$553 Million, where approximately \$193 Million has been committed from other funding sources. The total estimate of current needs for sewer projects; therefore, is approximately \$339 Million.

Combined Sewer Overflow Communities

Combined Sewer Overflows (CSOs)

Based on the list of Long-Term Control Plans filed with WVDEP, the requirement to satisfy CSOs need exceeds \$1.0 Billion. Although the LTCPs currently estimate the cost to meet State requirements at \$1.6 Billion, only sanitary sewers qualify for Council funding. Further, the majority of these plans have been on file since the last report and the current cost can be estimated at over \$1.7 Billion adjusted for inflation. Since stormwater sewers do not qualify for Council funding, a portion of the improvements needed will not involve the construction of sanitary sewers and the combined sewers becoming stormwater sewers. Therefore, since many of the LTCPs involve the construction of sanitary sewers and the combined sewers becoming stormwater sewers, the estimate is over \$1.0 Billion to satisfy CSOs need. Below is a list of CSO communities and their estimated total needs for compliance. Communities listed without an estimate did not have an approved LTCP filed with the DEP or did not have a cost listed in their LTCP.

| <u>UTILITY</u> | <u>ESTIMATED NEED (\$)</u> |
|---------------------|----------------------------|
| Barrackville | 5,743,960 |
| Beckley | 10,000,000 |
| Belington | 6,551,377 |
| Benwood | 6,756,200 |
| Bethany | - |
| Boone Co PSD | 1,500,000 |
| Bridgeport | 6,900,000 |
| Buckhannon | 3,786,876 |
| Cameron | 1,887,400 |
| Cedar Grove | 6,000,000 |
| Charleston | 256,318,000 |
| Clarksburg | 55,020,000 |
| Davis | - |
| Dunbar | 35,000,000 |
| Elkins | 23,252,000 |
| Fairmont | - |
| Farmington | 3,287,500 |
| Fayetteville | - |
| Flatwoods-Canoe Run | 33,000,000 |
| Follansbee | 6,306,915 |
| Grafton | 4,500,000 |
| Greater Paw Paw PSD | 11,493,800 |
| Hinton | 7,513,250 |
| Huntington | 584,617,186 |
| Kenova | 1,710,948 |
| Keyser | 9,882,000 |
| Kingwood | 13,000,000 |
| Logan | 77,000,000 |
| Marlinton | 2,100,000 |
| Marmet | 1,812,594 |
| Martinsburg | - |
| McMechen | 3,379,000 |
| Monongah | 6,356,007 |
| Montgomery | 2,068,000 |
| Moorefield | - |
| Morgantown | 172,990,000 |
| Moundsville | 9,770,400 |
| Mullens | 465,000 |
| New Martinsville | 58,223,836 |
| Nutter Fort | - |
| Nitro | 16,592,538 |
| Parsons | 1,275,000 |

| | |
|----------------|------------|
| Philippi | 14,920,800 |
| Piedmont | - |
| Point Pleasant | 5,000,000 |
| Princeton | 6,500,000 |
| Richwood | 8,691,000 |
| St. Albans | 107,726 |
| Shinnston | 2,139,775 |
| Sistersville | 11,952,000 |
| Smithers | 1,400,000 |
| Thomas | 4,799,950 |
| Wayne | 740,000 |
| Welch | 22,691,961 |
| Wellsburg | 8,399,400 |
| West Union | 2,865,700 |
| Weston | 3,634,531 |
| Westover | 1,940,000 |
| Wheeling | 80,000,000 |

TOTAL ESTIMATED COST \$1,621,842,630
TOTAL ESTIMATED COSTx CPI \$1,718,771,588

Notes: Estimated needs reported for systems listed are from December 2017 during the last inventory of LTCs. An update for 2020 was not available due to COVID restrictions on access to the document library. The estimate was adjusted for inflation using the Consumer Price Index (CPI) for 2015 - 2020 from the U.S. Bureau of Labor Statistics.

Summary of Current Needs

Current funding needs for water and sewer infrastructure based on applications filed with, and approved by the Council, are approximately \$344 Million for water projects and \$339 Million for sewer projects. In addition, based on the list of Long-Term Control Plans filed with WVDEP as of 12/31/20, the requirement to satisfy the State's Combined Sewer Overflows (CSOs) need exceeds \$1.0 Billion.

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FUTURE NEEDS

Definition

For purposes of this assessment, “future needs” are an estimate of the costs needed to serve the remaining unserved households/prospective customers of the State.

Methodology

In the absence of large preliminary studies with an enormous scope of work, placing a dollar cost on future needs is highly speculative and requires several assumptions, mainly relating to the following:

- Average cost of serving each household/prospective customer
- The number of unserved households/prospective customers
- The manner in which each household/prospective customer would be served

The average cost of serving each household/prospective customer assumes that the remaining unserved households/prospective customers would be provided service through a typical line extension. It does not necessarily take into account the addition of treatment or storage requirements on a per customer basis, which differs greatly for each locale and therefore is not easily estimated on such a broad scale. It also does not take into account alternate methods for providing service, such as decentralized systems.

For water service, a cost per customer of \$27,916 is assumed (\$25,000 assumed in 2013 x CPI₃).

For sewer service, a cost per customer of \$39,088 is assumed (\$35,000 assumed in 2013 x CPI₃).

Finally, the number of unserved households/prospective customers must be estimated. This assessment uses the difference between the number of households based on US Census data, and the number of customers served based on statistical data filed with the PSC. It should also be noted that a strict count of utility customers will also include non-residential entities, such as businesses, industries, etc. and this must be considered when attempting to estimate the number of unserved households/prospective customers.

Since a significant portion of current applications are for rehabilitation or contain rehabilitation work, it can be assumed that future needs may be understated by as much as \$4 Billion. Therefore, if rehabilitation work is considered in the estimate, the need may be approaching approximately \$18 Billion (\$2.6 Billion plus \$11.4 Billion from table below plus 4 Billion).

COST TO SERVE EVERY HOUSEHOLD/PROSPECTIVE CUSTOMER

| | WATER | SEWER |
|-----------------------------------|---------------|----------------|
| Number of Households ₄ | 732,585 | 732,585 |
| Customers served ₁ | 639,951 | 441,388 |
| Difference (unserved) | 92,634 | 291,197 |
| Avg. cost per customer to serve | \$27,916 | \$39,088 |
| Overall need | \$2.6 Billion | \$11.4 Billion |

OBSTACLES, ISSUES AND PROBLEMS

FINANCIAL CONCERNS

Available Funding Levels

The current status of funding sources is summarized below:

- WV Infrastructure & Jobs Development Council (Council) – it is anticipated the Infrastructure Fund will continue to receive excess lottery revenues to a maximum of \$40 Million which will be combined with payments of principal and interest on loans and investment earning. Therefore, FY2021 funding levels may be similar to FY 2020 with approximately \$12 Million being allocated to Economic Development Assistance and approximately \$8 Million being provided as a match to receive the Clean Water and Drinking Water Treatment EPA State Revolving Funds. The remaining funds of approximately \$39 Million will be available for Council to fund wastewater and water infrastructure projects.
- The West Virginia Water Development Authority (WDA) has the statutory authority to issue notes and bonds. The proceeds of these issues are used to make loans to local governmental agencies for water and sewer projects. This is done on a needs basis. The WDA can also purchase Grant Anticipation Notes and Bond Anticipation Notes, when needed, thus providing interim financing until the grant or permanent loan funds are available, allowing for construction to begin immediately. During Fiscal Year 2020, the WDA closed on a \$13,150,000 Design Loan Program. This program provides funding for engineering, accounting, right of ways, etc., facilitating the project getting to the construction phase and permanent financing. The WDA also provides lines of credit for Federal programs that need to spend funds before the local government entity can be reimbursed. WDA makes loans and grants on behalf of the Infrastructure Council and the state revolving funds.
- The EPA State Revolving Fund (SRF) programs are largely driven by Congressional budgeting and funding for both the Clean Water State Revolving Fund (CWSRF) and Drinking Water Treatment Revolving Fund (DWTRF), and funding for these programs has been relatively stable the last few years. However, there is no guarantee that will continue. In addition to the federally allocated funds and the state match provided by the IJDC, both programs receive payments of principal, interest and investment earnings that are used to fund projects. The CWSRF receives approximately \$33 Million annually from this funding stream. The DWSRF program receives \$8 Million annually for projects from repayments.
- The Abandoned Mines Lands and Reclamation (WVDEP-AML) Waterlines Program budget for Calendar Year 2021 is estimated to be approximately \$12 Million available for waterline construction. The \$12 Million budgeted amount includes unspent AML Waterlines grant funds carried over from previous grant years. AML anticipates that in future years, unspent waterlines grant funds will not be carried forward, but will instead be redirected to AML Reclamation projects. Current Federal legislation mandates that the coal tax and resultant federal funds will end in 2021, and additional AML Waterlines Program funds may not be available after that time. There is an ongoing legislative effort to extend the Surface Mining Control and Reclamation Act of 1977 (SMCRA), which mandates the fees that fund the WVDEP-AML Waterlines Program, for an additional ten years.

- The Appalachian Regional Commission (ARC) is estimating approximately \$8 Million will be available for FY2021 grant awards.
- The Community Development Block Grant (CDBG) program was allocated \$14,258,806 for FY2020. FY2021 funding is unknown at the present time but we estimate that the allocation for FY2021 will be a similar amount.
- The US Department of Agriculture – Rural Utility Services (USDA-RUS) anticipates having the same initial funding levels for FY2021 as in FY2020, which was approximately \$20,552,000 for loans and \$5,685,000 for grants.
- Federal assistance through the U.S. Army Corps of Engineers (USACE) Section 340 Southern West Virginia and Section 571 Central West Virginia Environmental Infrastructure Programs allows for design and construction assistance to non-Federal entities for carrying out water related environmental infrastructure and resource protection and development projects. These programs have received steady funding over the last three years (2018-2020) with average appropriations being \$1.4 Million. However, there is no guarantee this will continue. Also, these programs are reimbursable programs in that the local sponsor is responsible for the award and administration of the design and construction contracts with incremental payments being made to the sponsor for completed work. Over the last three years (2018-2020), USACE has selected and provided Federal assistance to eight projects within our Section 340 and Section 571 programs. Recent changes to the Water Resource Development Act (WRDA) 2020 have raised the authorization limits on both Section 340 and Section 571 to \$120 Million and \$100 Million respectively.

Availability of Grant Funds

The most sought-after form of funding for water and sewer infrastructure projects is grants. This is also the least available of fund types, due mainly to the fact that the largest funding programs were established as revolving funds and therefore rely on loan repayments to replenish and sustain themselves. The amount of grant funding available serves to make many projects viable and hence proceed to construction. A review of the Infrastructure Fund's project financing closings between FY2018 and FY2020 reflects that approximately 89% of those projects had Council grants in their funding packages. Had those grants not been available, it is quite possible that most of the projects funded through the Infrastructure Fund over the last three years would not have proceeded to construction or would have proceeded with reduced project scopes.

User Rates

Water and sewer user rates continue to rise in order to meet current utility expense increases and evolving compliance requirements. Accordingly, the income available for utilities to service the debt associated with borrowing public funds is less. Every utility undertaking a capital project must determine the maximum user rates it is willing to accept in order to construct a project. Although this amount is different for each utility (and project), it will be capped as a direct function of the rates its customers are willing to pay and/or what the management of the utility is willing to accept. As rates approach these 'unacceptable' levels, project sponsors (utilities) may be less willing to take on additional debt (loans) and may only undertake capital projects if grant funds are available. Another probable outcome is that, in the absence of grant funds, utilities will undertake only those projects with a high urgency, such as

those designed to ensure compliance with regulatory standards and consent decrees versus projects that are not being mandated by law or regulation, such as extensions of service to unserved areas.

PHYSICAL AND GEOGRAPHIC CONCERNS

West Virginia's geography and geology mandate relatively higher costs for underground infrastructure, such as water and sewer projects. This impact exists not only for new construction, but for replacement and rehabilitation projects as well. Real estate to construct new treatment facilities can be difficult and expensive to acquire, which sometimes creates added controversy over plant and pump/lift station siting proposals.

Typically, existing systems will expand service to more accessible areas first. As time progresses, the remaining unserved areas will be located in more remote, rugged, and less densely populated areas. This results in higher costs, both on a per-customer and per-mile basis.

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RECOMMENDATIONS

- 1) As the need for infrastructure investments and improvements far outweighs the funds available, determining which projects receive funding commitments must continue to be based on objective, uniform criteria; among the most important of these criteria is a project's readiness to proceed to construction after receiving its funding commitments;
- 2) Track and encourage that the "utilization rates" of the State's existing available funds are as close to 100% as possible, where "utilization" is defined as a formal, binding commitment of funds. Once the available funds are 100% utilized, then planning for additional procurement of funding, i.e., bond issues, leveraging, etc. should be considered;
- 3) Funding programs must continue to coordinate their efforts in order to maximize the effectiveness of the State's limited funds available;
- 4) Continue to provide matches for both EPA-SRF funds administered by the State (CWSRF and DWTRF);
- 5) Strive to ensure that all federal funds are utilized and matched when necessary by State funds. Other than the Infrastructure Fund, all other primary funding programs for water and sewer projects in the State receive their funds primarily from federal sources. Therefore, almost every funding program in the State partnering with the Infrastructure Fund can be considered as requiring a "federal match" in order to ensure its projects are fully funded; and
- 6) Continue to develop guidance for and identify funding sources to address evolving infrastructure needs.

REFERENCES

- 1) 2019 Statistical Report, Public Service Commission of West Virginia
- 2) Combined Sewer Overflow (CSO) Long Term Control Plans, WV Department of Environmental Protection
- 3) Consumer Price Index (CPI) for 2015 - 2020 from the US Bureau of Labor Statistics
- 4) U.S. Census Data for 2010 updated from American Community Survey for 2019

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Appendix A

Existing Water Systems and Customers - Water Associations and Authorities

| <u>NAME OF UTILITY</u> | <u>AVG. # CUSTOMERS</u> |
|---|-----------------------------|
| Arthurdale Water Association | 110 |
| Clinton Water Association, Inc. | 3,816 |
| Coal Mountain Water Company | 41 |
| Coolfont Mountainside Association, Inc. | 122 |
| Crumpler Community Water Association, Inc. | - |
| Denver Water Association | 146 |
| Gallipolis Ferry Water Association, Inc. | 432 |
| Garwood Water Maintenance Association | - |
| Green Camp Community Water Association | 19 |
| Hardy County Rural Development Authority | 80 |
| Herndon Water Works | - |
| Hiawatha Water Association | - |
| Hughes River Water Board | 3 |
| Hutchinson Community Water Association | 150 |
| J-2-Y-35 Water Association, Inc. | - |
| Mariana Public Service District | 10 |
| Ministers Run Water Association | 140 |
| Montana Water Association | 311 |
| Mount Hope Water Association | 1,200 |
| Mountain View Water Association | 892 |
| New Creek Water Association, Inc. | 1,383 |
| O'Toole Water Association, Inc. | - |
| Pleasants County Development Authority | - |
| Route 16 Water Corporation | - |
| Sugar Lane Water Association Inc | - |
| Tri-County Water Association | 1,159 |
| Webster County Economic Development Authority | 216 |
| Whitmer Water Association, Inc. | - |
| Woods Homeowners Association, Inc., The | - |
| Total | <hr/> 10,230 |

Appendix A

Existing Water Systems and Customers - Municipal Water Utilities

| <u>NAME OF UTILITY</u> | <u>AVG. # CUSTOMERS</u> |
|--------------------------|-----------------------------|
| Albright | 145 |
| Alderson | 695 |
| Anmoore | 473 |
| Athens | 1,791 |
| Beech Bottom | 230 |
| Belington | 935 |
| Belmont | 427 |
| Benwood | 576 |
| Berkeley Springs (Bath) | 1,395 |
| Bethlehem | 1,151 |
| Beverly | 1,092 |
| Bradshaw | 69 |
| Bridgeport | 5,000 |
| Bruceton | 78 |
| Buckhannon | 4,043 |
| Burnsville | 502 |
| Cairo | 0 |
| Camden-on-Gauley | 156 |
| Cameron | 426 |
| Capon Bridge | 335 |
| Carpendale | 375 |
| Cedar Grove | 403 |
| Ceredo | 662 |
| Chapmanville | 884 |
| Charles Town | 6,209 |
| Chester | 1,736 |
| Clarksburg | 7,934 |
| Clay | 525 |
| Davis | 448 |
| Davy | 174 |
| Delbarton | 153 |
| East Bank | 390 |
| Elizabeth | 861 |
| Elkins | 3,963 |
| Fairmont | 13,948 |
| Fairview | 447 |
| Falling Springs (Renick) | 103 |
| Farmington | 318 |
| Follansbee | 3,608 |
| Fort Gay | 620 |
| Franklin | 711 |
| Gary | 443 |

Appendix A

Existing Water Systems and Customers - Municipal Water Utilities

| <u>NAME OF UTILITY</u> | <u>AVG. # CUSTOMERS</u> |
|------------------------|-----------------------------|
| Gilbert | 718 |
| Glasgow | 292 |
| Glen Dale | 1,008 |
| Glenville | 845 |
| Grafton | 2,583 |
| Grant Town | 528 |
| Grantsville | 301 |
| Harman | 103 |
| Harpers Ferry | 828 |
| Harrisville | 1,119 |
| Hartford | 225 |
| Hillsboro | 119 |
| Hurricane | 3,629 |
| Huttonsville | 75 |
| Junior | 419 |
| Kenova | 4,009 |
| Kermit | 522 |
| Keyser | 2,524 |
| Keystone | 80 |
| Kingwood | 1,411 |
| Lester | 271 |
| Lewisburg | 5,023 |
| Logan | 1,906 |
| Lumberport | 640 |
| Mannington | 909 |
| Marlinton | 762 |
| Martinsburg | 6,652 |
| Mason | 764 |
| Masontown | 925 |
| Matewan | 855 |
| McMechen | 807 |
| Meadow Bridge | 260 |
| Middlebourne | 532 |
| Mill Creek | 379 |
| Milton | 2,568 |
| Monongah | 1,414 |
| Moorefield | 1,228 |
| Morgantown | 26,411 |
| Moundsville | 4,465 |
| Mount Hope | 638 |
| New Cumberland | 575 |
| New Haven | 671 |

Appendix A

Existing Water Systems and Customers - Municipal Water Utilities

| <u>NAME OF UTILITY</u> | <u>AVG. # CUSTOMERS</u> |
|------------------------|-----------------------------|
| New Martinsville | 2,665 |
| Newburg | 437 |
| Northfork | 152 |
| Nutter Fort | 780 |
| Oceana | - |
| Paden City | 1,249 |
| Parkersburg | 15,912 |
| Parsons | 815 |
| Paw Paw | 233 |
| Pax | 299 |
| Pennsboro | 881 |
| Petersburg | 1,219 |
| Philippi | 1,515 |
| Piedmont | 277 |
| Pine Grove | - |
| Pineville | 1,074 |
| Pocahontas | 1 |
| Point Pleasant | 2,436 |
| Rainelle | 824 |
| Ravenswood | 1,872 |
| Reedy | 148 |
| Richwood | 983 |
| Ridgeley | 298 |
| Ripley | 2,487 |
| Rivesville | 564 |
| Romney | 886 |
| Ronceverte | 949 |
| Rowlesburg | 279 |
| Rupert | 494 |
| Salem | 784 |
| Shepherdstown | 1,721 |
| Shinnston | - |
| Sistersville | 970 |
| Spencer | 2,114 |
| St. Albans | 6,016 |
| St. Marys | 1,089 |
| Star City | 980 |
| Stonewood | 928 |
| Summersville | 2,747 |
| Terra Alta | 718 |
| Thomas | 366 |
| Triadelphia | 510 |

Appendix A

Existing Water Systems and Customers - Municipal Water Utilities

| <u>NAME OF UTILITY</u> | <u>AVG. # CUSTOMERS</u> |
|------------------------|-----------------------------|
| Tunnelton | 440 |
| Union | 387 |
| Valley Grove | 306 |
| Vienna | 5,373 |
| War | - |
| Wardensville | 382 |
| Wayne | 2,366 |
| Weirton | 9,296 |
| Welch | 1,069 |
| Wellsburg | 1,552 |
| West Hamlin | 994 |
| West Milford | 271 |
| West Union | 699 |
| Wheeling | 13,084 |
| White Sulphur Springs | 1,837 |
| Williamson | - |
| Williamstown | 1,532 |
| Womelsdorff | 109 |
| Worthington | 456 |
| Totals | <u>243,213</u> |

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Appendix A

Existing Water Systems and Customers - Private Water Utilities

| <u>NAME OF UTILITY</u> | <u>AVG. # CUSTOMERS</u> |
|--|-----------------------------|
| Alpine Lake Public Utilities Company | 520 |
| Beckley Water Company | 22,488 |
| Bellwood Community Facilities Imp. Corp. | 30 |
| Cave Road Utilities, LLC | 48 |
| Fox Glen Utilities, Inc. | 244 |
| Jefferson Utilities, Inc. | 2,894 |
| Mountain View Water System LLC | 55 |
| Newell Company, Inc., The | 647 |
| P & P Enterprises Utilities, LLC | 2 |
| Springer Run Park, LLC | 64 |
| Sunny View Acres Water Project | 28 |
| Timberline Four Seasons Utilities, Inc. | 439 |
| Valley Water & Sewer Services, Inc. | 121 |
| West Logan Water Company | 417 |
| West Virginia Resorts LLC | - |
| West Virginia-American Water Co. | 166,038 |
| Total | <hr/> 194,035 |

Source: 2019 Statistical Report, Public Service Commission of WV

Appendix A

Existing Water Systems and Customers - Public Service Districts (Water)

| <u>NAME OF UTILITY</u> | <u>AVG. # CUSTOMERS</u> |
|---|-----------------------------|
| Adrian Public Service District | 2,101 |
| Armstrong Public Service District | 737 |
| Berkeley County Public Service District | 25,014 |
| Big Bend Public Service District | - |
| Bingamon Public Service District | 531 |
| Birch River Public Service District | 453 |
| Bluemont Public Service District | 2,968 |
| Boone County Public Service District | - |
| Boone-Raleigh Public Service District | 459 |
| Branchland-Midkiff Public Service District | 1,141 |
| Brenton Public Service District | - |
| Brooke County Public Service District | 113 |
| Buffalo Creek Public Service District | 1,497 |
| Central Barbour Public Service District | 1,078 |
| Central Boaz Public Service District | 652 |
| Central Hampshire Public Service District | 1,652 |
| Century Volga Public Service District | 1,010 |
| Cheat View Public Service District | 4,230 |
| Chestnut Ridge Public Service District | 1,183 |
| Clay Battelle Public Service District | 1,628 |
| Clay County Public Service District | 680 |
| Clay-Roane Public Service District | 840 |
| Claywood Park Public Service District | 3,866 |
| Clover Public Service District | 387 |
| Cool Ridge-Flat Top Public Service District | 1,828 |
| Coon's Run Public Service District | 429 |
| Cottageville Public Service District | 1,347 |
| Cowen Public Service District | 1,448 |
| Craigsville Public Service District | 2,021 |
| Crum Public Service District | 1,340 |
| Cumberland P.S.D. c/o WV-American Water | 99 |
| Danese Public Service District | 920 |
| Downs Public Service District | 444 |
| East View Public Service District | 235 |
| Eastern Wyoming Public Service District | 1,633 |
| Elkins Road Public Service District | 1,115 |
| Ellenboro-Lamberton Public Service District | 260 |
| Enlarged Hepzibah Public Service District | 836 |
| Fenwick Mountain Public Service District | 223 |
| Flatwoods-Canoe Run Public Service District | 1,927 |
| Fountain Public Service District | 767 |
| Frankfort Public Service District | 2,821 |

Appendix A

Existing Water Systems and Customers - Public Service Districts (Water)

| <u>NAME OF UTILITY</u> | <u>AVG. # CUSTOMERS</u> |
|---|-----------------------------|
| Gap Mills Public Service District | 185 |
| Gauley River Public Service District | 1,275 |
| Gilmer County Public Service District | 760 |
| Glen Rogers Public Service District | 89 |
| Grandview-Doolin Public Service District | 1040 |
| Grant County Public Service District | 2,757 |
| Greater Harrison County Public Service District | 3,511 |
| Green Valley-Glenwood Public Service District | 3,720 |
| Greenbrier County Public Service District No. 2 | 474 |
| Hammond Public Service District | 906 |
| Hamrick Public Service District | 780 |
| Hardy County Public Service District | 2,025 |
| Hodgesville Public Service District | 1,198 |
| Hundred-Littleton Public Service District | 262 |
| Huttonsville Public Service District | 1,590 |
| Ice's Run Route 250 Public Service District | 478 |
| Jane Lew Public Service District Water Division | 665 |
| Jumping Branch-Nimitz Public Service District | - |
| Justice Public Service District | 236 |
| Kanawha Falls Public Service District | 1,021 |
| Lashmeet Public Service District | - |
| Lavalette Public Service District | 3,765 |
| Leadsville Public Service District | 649 |
| Lincoln Public Service District | 2,461 |
| Little Creek Public Service District | 913 |
| Logan County Public Service District | - |
| Lubeck Public Service District | 4,824 |
| Mannington Public Service District | 544 |
| Marshall County Public Service District No. 1 | 1,447 |
| Marshall County Public Service District No. 2 | 654 |
| Marshall County Public Service District No. 3 | 1,162 |
| Marshall County Public Service District No. 4 | 1,458 |
| Mason County Public Service District | 5,578 |
| McDowell County Public Service District | 3,228 |
| Midland Public Service District | 1,487 |
| Mineral Wells Public Service District | 2,573 |
| Mingo County Public Service District | 4,299 |
| Monumental Public Service District | 466 |
| Mountain Top Public Service District | 887 |
| Mt. Zion Public Service District | 489 |
| Nettie-Leivasy Public Service District | 1,366 |
| New Haven Public Service District | - |

Appendix A

Existing Water Systems and Customers - Public Service Districts (Water)

| <u>NAME OF UTILITY</u> | <u>AVG. # CUSTOMERS</u> |
|---|-----------------------------|
| Northern Jackson County Public Service District | 1099 |
| Norton-Harding-Jimtown Public Service District | 699 |
| Oakland Public Service District | 927 |
| Oakvale Road Public Service District | - |
| Ohio County Public Service District | 4,250 |
| Page-Kincaid Public Service District | 650 |
| Paw Paw Rt 19 Public Service District | 536 |
| Pendleton County Public Service District | 852 |
| Pleasant Hill Public Service District | 718 |
| Pleasant Valley Public Service District | 1008 |
| Pleasants County Public Service District | 671 |
| Pocahontas County Public Service District | 921 |
| Preston County Public Service District No. 1 | 1,472 |
| Preston County Public Service District No. 2 | 1,481 |
| Preston County Public Service District No. 4 | 1936 |
| Putnam Public Service District | 9,815 |
| Raleigh County Public Service District | 6,856 |
| Ravencliff-McGraws-Saulsville Public Service Dist | 1,272 |
| Red Sulphur Public Service District | 2,251 |
| River Road Public Service District | 792 |
| Salt Rock Public Service District | - |
| Short Line Public Service District | 1,183 |
| Southern Jackson County Public Service District | 2,481 |
| Southwestern Water District | 2,177 |
| Sugar Creek Public Service District | 600 |
| Summit Park Public Service District | 408 |
| Sun Valley Public Service District | 1,235 |
| Taylor County Public Service District | - |
| Tomlinson Public Service District | 1837 |
| Tyler County Public Service District (fka Friendly) | 902 |
| Union-Williams Public Service District | 3,254 |
| Valley Falls Public Service District | 1,677 |
| Walton Public Service District | 850 |
| Washington Pike Public Service District | 1,382 |
| Wetzel County Public Service District No. 1 | 692 |
| Wilderness Public Service District | 2,054 |
| Totals | <u>192,473</u> |

Appendix B

Existing Sewer Systems and Customers - Municipal Sewer Utilities

| <u>NAME OF UTILITY</u> | <u>AVG. # CUSTOMERS</u> |
|------------------------|-----------------------------|
| Albright | 94 |
| Alderson | 508 |
| Anmoore | 419 |
| Ansted | 576 |
| Athens | 446 |
| Barboursville | 1,901 |
| Barrackville | 696 |
| Beckley | 7,368 |
| Belington | 819 |
| Belle | 610 |
| Belmont | 397 |
| Benwood | 557 |
| Bethany | 214 |
| Bethlehem | 1,118 |
| Beverly | 810 |
| Blacksville | 95 |
| Bluefield | 7,431 |
| Bradshaw | 112 |
| Bridgeport | 4,990 |
| Buckhannon | 3,127 |
| Buffalo | 499 |
| Burnsville | 206 |
| Cairo | 156 |
| Camden-on-Gauley | 92 |
| Cameron | 399 |
| Capon Bridge | 218 |
| Carpendale | 374 |
| Cedar Grove | 352 |
| Ceredo | 808 |
| Chapmanville | 775 |
| Charles Town | 6,280 |
| Charleston | 22,565 |
| Chesapeake | 632 |
| Chester | 1,634 |
| Clarksburg | 7,266 |
| Clay | 264 |
| Clearview | 255 |
| Davis | 439 |
| Delbarton | 103 |
| Dunbar | 3,404 |
| Durbin | 164 |
| East Bank | 379 |

Source: 2019

Statistical Report, Public Service Commission of WV

Appendix B

Existing Sewer Systems and Customers - Municipal Sewer Utilities

| <u>NAME OF UTILITY</u> | <u>AVG. # CUSTOMERS</u> |
|------------------------|-----------------------------|
| Eleanor | 979 |
| Elizabeth | 422 |
| Elkins | 2,989 |
| Fairmont | 9,625 |
| Farmington | 237 |
| Flemington | 373 |
| Follansbee | 2,403 |
| Fort Gay | 311 |
| Franklin | 459 |
| Gary | 393 |
| Gilbert | 320 |
| Glasgow | 290 |
| Glen Dale | 1,056 |
| Glenville | 718 |
| Grafton | 2,292 |
| Grantsville | 295 |
| Granville | 331 |
| Handley | 99 |
| Harman | 56 |
| Harrisville | 826 |
| Hartford | 200 |
| Hillsboro | 118 |
| Hinton | 1,237 |
| Huntington | 16,792 |
| Hurricane | 2,026 |
| Junior | 194 |
| Kenova | 1,327 |
| Kermit | 132 |
| Keyser | 2,191 |
| Kingwood | 1,450 |
| Leon | 117 |
| Logan | 813 |
| Lumberport | 640 |
| Mannington | 920 |
| Marlinton | 684 |
| Marmet | 577 |
| Martinsburg | 6,067 |
| Mason | 472 |
| Masontown | 509 |
| Matewan | 784 |
| Matoaka | - |
| McMechen | 793 |

Source: 2019

Statistical Report, Public Service Commission of WV

Appendix B

Existing Sewer Systems and Customers - Municipal Sewer Utilities

| <u>NAME OF UTILITY</u> | <u>AVG. # CUSTOMERS</u> |
|------------------------|-----------------------------|
| Meadow Bridge | 325 |
| Middlebourne | 563 |
| Milton | 1,931 |
| Monongah | 613 |
| Montgomery | 592 |
| Moorefield | 1,260 |
| Morgantown | 22,842 |
| Moundsville | 4,399 |
| Mount Hope | 488 |
| Mullens | - |
| New Cumberland | 440 |
| New Haven | 640 |
| New Martinsville | 2,550 |
| Newburg | 147 |
| Nitro | 2,518 |
| North Hills | 313 |
| Nutter Fort | 772 |
| Oak Hill | 4,000 |
| Oceana | - |
| Paden City | 1,206 |
| Parkersburg | 15,265 |
| Parsons | 727 |
| Paw Paw | 233 |
| Pax | 153 |
| Pennsboro | 524 |
| Petersburg | 1,189 |
| Philippi | 1,196 |
| Piedmont | 262 |
| Pine Grove | - |
| Point Pleasant | 2,107 |
| Pratt | 226 |
| Princeton | 3,980 |
| Ranson | - |
| Ravenswood | 1,807 |
| Reedsville | 336 |
| Reedy | 76 |
| Richwood | 809 |
| Ridgeley | 320 |
| Ripley | 2,275 |
| Romney | 1025 |
| Ronceverte | 791 |
| Rowlesburg | 232 |

Source: 2019

Statistical Report, Public Service Commission of WV

Appendix B

Existing Sewer Systems and Customers - Municipal Sewer Utilities

| <u>NAME OF UTILITY</u> | <u>AVG. # CUSTOMERS</u> |
|------------------------|-----------------------------|
| Salem | 728 |
| Sand Fork | 58 |
| Shepherdstown | 1,139 |
| Shinnston | - |
| Sistersville | 955 |
| Smithers | 368 |
| Sophia | 826 |
| South Charleston | 7,051 |
| Spencer | 1,543 |
| St. Albans | 6,103 |
| St. Marys | 903 |
| Star City | 980 |
| Stonewood | 914 |
| Summersville | 1,691 |
| Terra Alta | 633 |
| Thomas | 315 |
| Triadelphia | 489 |
| Tunnelton | 165 |
| Union | 292 |
| Vienna | 5,188 |
| War | - |
| Wardensville | 365 |
| Wayne | 728 |
| Weirton | 9,164 |
| Welch | 830 |
| Wellsburg | 1,411 |
| West Hamlin | 390 |
| West Union | 522 |
| Weston | 2,544 |
| Westover | 2,292 |
| Wheeling | 12,506 |
| White Sulphur Springs | 1,640 |
| Willamson | - |
| Williamstown | 1,419 |
| Winfield | 1,134 |
| Worthington | 307 |
| Total | <hr/> 289,094 |

Source: 2019

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Appendix B

Existing Sewer Systems and Customers - Private Sewer Utilities

| <u>NAME OF UTILITY</u> | <u>AVG. # CUSTOMERS</u> |
|---|-----------------------------|
| Alpine Lake Public Utilities Company | 520 |
| Butcher Bend Lagoon Maintenance Association | 19 |
| Carney Park Landowners/Homeowners Association | 60 |
| C & J Utilities, LLC | 31 |
| Cacapon South Utility Association, Inc. | 90 |
| Cave Road Utilities, LLC | 48 |
| Circle Drive Estates Association | 41 |
| Coolfont Mountainside Association Inc. | 112 |
| Fountainhead Homeowners Association | 92 |
| Graham Meadows Service District, Inc. | 55 |
| Green Acres Utilities | 105 |
| Hidden Valley Treatment, Inc. | 53 |
| Holiday Park Leisure Acres Association, Inc. | - |
| HPSD, LLC | 266 |
| Hubbard Heights Subdivision H.O. Association | - |
| Lakewood Utilities, Inc. | - |
| Linmont Sanitation System, Inc. | 81 |
| Moorefield/Hardy County Wastewater Authority | 4 |
| Newell Company, Inc., The | 425 |
| Ogden Sewer Company | 80 |
| P & P Enterprises Utilities LLC | 36 |
| SCL, PSD, LLC | 141 |
| Sewage Systems, Inc. | - |
| Shenandoah Junction Public Sewer, Inc. | 160 |
| Spring Valley Home Owners Association, Inc. | - |
| Springer Run Park, LLC | 64 |
| Timberline Four Seasons Utilities, Inc. | 754 |
| Village at Rock Ridge, Inc. | 100 |
| Vitech Enterprises, Inc. | - |
| Wastewater Management, Inc. | 50 |
| West Virginia Resorts, LLC | - |
| West Virginia-American Water Company | 1,114 |
| Williamsburg Sewer System, Inc. | 207 |
| Wood County Parks and Recreation Commission | 18 |
| Total | <hr/> 4,726 |

Appendix B

Existing Sewer Systems and Customers - Public Service Districts (Sewer)

| <u>NAME OF UTILITY</u> | <u>AVG. # CUSTOMERS</u> |
|---|-----------------------------|
| Armstrong Public Service District | 743 |
| Berkeley County Public Service Sewer District | 23,972 |
| Big Bend Public Service District | - |
| Bluewell Public Service District | 1,235 |
| Boone County Public Service District | 1,750 |
| Boone-Raleigh Public Service District | 407 |
| Bradley Public Service District | 1,597 |
| Bramwell Public Service District | 191 |
| Brooke County Public Service District | 1071 |
| Buffalo Creek Public Service District | 1,869 |
| Canaan Valley Public Service District | 4 |
| Center Public Service District | 747 |
| Central Boaz Public Service District | 499 |
| Central Hampshire Public Service District | 787 |
| Claywood Park Public Service District | 1,976 |
| Colfax Public Service District | 137 |
| Cottageville Public Service District | 239 |
| Cowen Public Service District | 564 |
| Crab Orchard-MacArthur Public Service District | 4,243 |
| Craigsville Public Service District | 980 |
| Culloden Public Service District | 1,208 |
| Deckers Creek Public Service District | 1,974 |
| East View Public Service District | 356 |
| Elk Valley Public Service District | 4,523 |
| Ellenboro-Lamberton Public Service District | 162 |
| Enlarged Hepzibah Public Service District | 730 |
| Flatwoods-Canoe Run Public Service District | 1,281 |
| Frankfort Public Service District | 2,268 |
| Glen Rogers Public Service District | 92 |
| Greater Harrison County Public Service District | 2,199 |
| Greater Marion Public Service District | 423 |
| Greater Paw Paw Sanitary District | 1,331 |
| Greater St. Albans Public Service District | 2,497 |
| Green Valley-Glenwood Public Service District | 3,635 |
| Greenbrier County Public Service District No. 2 | 2,232 |
| Greenbrier Public Service District No. 1 | 2,820 |
| Hamlin Public Service District | 687 |
| Hamrick Public Service District | 467 |
| Hancock County Public Service District | 1,396 |
| Hardy County Public Service District | 27 |
| Harpers Ferry-Bolivar Public Service District | 765 |
| Hundred-Littleton Public Service District | 190 |

Source: 2019

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Appendix B

Existing Sewer Systems and Customers - Public Service Districts (Sewer)

| <u>NAME OF UTILITY</u> | <u>AVG. # CUSTOMERS</u> |
|---|-----------------------------|
| Huttonsville Public Service District | 946 |
| Jane Lew Public Service District | 903 |
| Kanawha Falls Public Service District | 1,131 |
| Kanawha Public Service District fka Chelyan PSD | 2,444 |
| Kingmill Valley Public Service District | 1,406 |
| Lake Floyd Public Service District | 151 |
| Leadsville Public Service District | 777 |
| Logan County Public Service District | - |
| Lubeck Public Service District | 2,428 |
| Malden Public Service District | 3,193 |
| Marshall County Sewerage District | 812 |
| Mason County Public Service District | 274 |
| Meadow Creek Public Service District | - |
| Midland Public Service District | 898 |
| Mineral Wells Public Service District | 1,767 |
| Mingo County Public Service District | 428 |
| Mountain Top Public Service District | 298 |
| Mt. Zion Public Service District | 125 |
| New Creek Public Service District | 1,062 |
| New Haven Public Service District | - |
| North Beckley Public Service District | 3,855 |
| Northern Jackson County Public Service District | 128 |
| Northern Wayne County Public Service District | 2,773 |
| Norton-Harding-Jimtown Public Service District | 298 |
| Oakvale Road Public Service District | 1,829 |
| Ohio County Public Service District | 2,021 |
| Page-Kincaid Public Service District | 410 |
| Pea Ridge Public Service District | 4,954 |
| Pleasant View Public Service District | 153 |
| Pocahontas County Public Service District | 730 |
| Preston County Public Service District | 247 |
| Prichard Public Service District | 185 |
| Putnam Public Service District | 11,536 |
| Red Sulphur Public Service District | 1,230 |
| Salt Rock Public Service District | 1,635 |
| Shady Spring Public Service District | 4,606 |
| Sissonville Public Service District | 1,652 |
| Southern Jackson County Public Service District | 722 |
| Spring Valley Public Service District | 534 |
| Summit Park Public Service District | 510 |
| Sun Valley Public Service District | 721 |
| Tennerton Public Service District | 893 |

Source: 2019

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Appendix B

Existing Sewer Systems and Customers - Public Service Districts (Sewer)

| <u>NAME OF UTILITY</u> | <u>AVG. # CUSTOMERS</u> |
|---|-----------------------------|
| Tyler County Public Service District (Friendly PSD) | 285 |
| Union Public Service District | 5,257 |
| Union Williams Public Service District | 1,833 |
| Warm Springs Public Service District | 1,445 |
| Webster Springs Public Service District | 622 |
| West Dunbar Public Service District | 679 |
| White Oak Public Service District | 981 |
| Whitehall Public Service District | <u>1,423</u> |
| Totals | 147,568 |

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Appendix C

Current Needs - Approved Water Applications Requiring Funding

As of 12/31/20

| SPONSOR | PROJECT DESCRIPTION | COUNTY | IJDC # | PROJECT COST | COMMITTED FUNDS |
|-------------------------|---|---------|------------|--------------|-----------------|
| CHESTNUT RIDGE PSD | This project will make improvements to the PSD's water distribution system. | BARBOUR | 2019W-1835 | 3,897,500.00 | - |
| PHILIPPI, CITY OF | This project will provide a secondary water source by constructing a reservoir along Little Laurel Run in Barbour County, WV. | BARBOUR | 2019W-1855 | 7,550,000.00 | - |
| BOONE COUNTY PSD | To provide water service to a development park located on the former Hobet surface mine, that is being upgraded to the premier business, commercial and industrial site in Boone County as well as Southern West Virginia | BOONE | 2020W-1868 | 3,400,000.00 | 100,000.00 |
| FLATWOODS CANOE RUN PSD | This project is to extend services and provide quality and dependable potable water and fire protection service to approximately 39 customers in the Holly and Otter Magisterial Districts of Braxton County, West Virginia. | BRAXTON | 2016W-1626 | 2,498,027.00 | - |
| FOLLANSBEE, CITY OF | This project will upgrade the water treatment plants, SCADA system, refurbish all boosters and tanks, replace some existing water lines. | BROOKE | 2018W-1756 | 9,237,573.00 | 0.00 |
| PLEASANT HILL PSD | This project consists of the extension of public water service to approximately 77 households in Calhoun County. | CALHOUN | 2018W-1746 | 3,440,000.00 | 0.00 |
| GRANTSVILLE, TOWN OF | Required improvements to the Town of Grantsville's Water Treatment Plant. | CALHOUN | 2015W-1588 | 2,097,920.00 | 1,000,000.00 |
| CLAY COUNTY PSD | To provide potable water to the residents, businesses and churches of Clay County along Route 16 from Interstate 64 north to the Clay County line. | CLAY | 2019W-1831 | 5,355,000.00 | 75,000.00 |
| BIRCH RIVER PSD | Wilson Ridge Water Extension Phase 2 extends water further along Wilson Ridge Road (Clay County Route 48) to provide domestic water service to a potential 28 new customers. The project includes approximately 4.4 miles of four-inch and smaller diameter waterlines. Due to concerns about turnover, the lines are not sized to provide fire protection. | CLAY | 2018W-1770 | 945,000.00 | 0.00 |

Appendix C

Current Needs - Approved Water Applications Requiring Funding

As of 12/31/20

| SPONSOR | PROJECT DESCRIPTION | COUNTY | IJDC # | PROJECT COST | COMMITTED FUNDS |
|------------------------|---|-----------|------------|--------------|-----------------|
| CLAY, TOWN OF | To replace two water storage tanks that failed during cleaning in the summer of 2018. Both tanks were built in 1969. The middle ring of the larger tank has pitting and perforations and cannot be rehabilitated. | CLAY | 2019W-1785 | 975,000.00 | 0.00 |
| DODDRIDGE COUNTY PSD | The Big Flint Water Line Extension will serve approx. 339 new customers. Will tie-in to Town of Salem's existing system at 1,000 feet SE of US Rt 50 & Rt 23 intersection. Current residents utilize wells, springs & cisterns as sources of drinking water. This will require approx. 70,435 LF of 8", 30,525 LF of 6", 5,815 LF of 2", 65 gate valves, 60 fire hydrants, 12 automatic air release valves, 339 3/4" meters, one booster pump station, one water storage tank, & necessary appurtenances. | DODDRIDGE | 2016W-1634 | 7,919,435.00 | - |
| MEADOW BRIDGE, TOWN OF | Water distribution system upgrades to properly supply water & fire protection to existing customer base, as well as extension of water & fire protection to areas adjacent to the Town. Project will include interconnection with Danese PSD to provide emergency water source, and an additional water storage tank to accommodate additional customers and provide system flexibility. | FAYETTE | 2018W-1743 | 4,169,000.00 | - |
| NEW HAVEN PSD | Water line extension to Cane Branch, Ramsey, Hawver Rd, South Miller Ridge, Arrowwood Rd, Dotson Ridge & Lower Dotson Ridge, Whispering Pines. Approximately 73 new customers. | FAYETTE | 2018W-1760 | 4,841,686.00 | 337,832.00 |
| NEW HAVEN PSD | Water line extension to Sunday Rd / Confluence / Elliot Cutoff area, including possible Stringtown connector & Clifty connector | FAYETTE | 2018W-1761 | 2,933,635.00 | 236,280.00 |

Appendix C**Current Needs - Approved Water Applications Requiring Funding****As of 12/31/20**

| SPONSOR | PROJECT DESCRIPTION | COUNTY | IJDC # | PROJECT COST | COMMITTED FUNDS |
|---------------------------------|--|-------------------|-------------------|---------------------|------------------------|
| KANAWHA FALLS PSD | Replace all the existing meters with radio read meters and purchase radio read meter reading equipment, repair the concrete ring on Low Tank, replace the Telemetry System throughout the entire system and make the following improvements at the existing water treatment plant: Replace Treatment Units with conventional Mixed Media Filters, Replace the Backwash Pumps/Motors, Replace High Service Pumps/Motors and Suction Lines/Screens, Install Winch / Trolley System for High Service Pumps, Clean / Dispose of debris in Clearwell, Other Related Work (Piping, Valves, Demolition, Electrical, Etc.) | FAYETTE | 2019W-1799 | 3,842,000.00 | 0.00 |
| ARMSTRONG/DEEPWATER PSD | Replacement of Powellton water storage tank with an apx 150,000 gal storage tank, upgrade apx 10,000 LF of existing waterline in the Powellton area & apx 9,000 existing waterline in the Deepwater area, as well as providing fire protection to the Deepwater area. BPH sanitary survey indicates water loss significantly higher than 15%, as well as stating that the Powellton Tank is in very poor condition & needs to be replaced to avoid endangering the public health of the customer base. | FAYETTE | 2016W-1628 | 2,515,000.00 | 1,500,000.00 |
| GILMER COUNTY PSD | This project consists of extending water to three areas (Grass Run, Tator Knob, Route 74) within the Gilmer County PSD service area. The project will serve 29 customers with the possibility of serving additional customers. The project also includes the repainting of the Gilmer County PSD water tank located in Sand Fork. | GILMER | 2020W-1915 | 2,700,000.00 | 0.00 |
| GREENBRIER COUNTY PSD #2 | Water extension to approximately 105 customers in the Charmco & McRoss areas of Greenbrier County. | GREENBRIER | 2018W-1745 | 2,735,000.00 | 0.00 |
| ALDERSON, TOWN OF | Water system rehab, extension to apx 165 new customers | GREENBRIER | 2019W-1833 | 6,637,000.00 | 0.00 |

Appendix C**Current Needs - Approved Water Applications Requiring Funding****As of 12/31/20**

| SPONSOR | PROJECT DESCRIPTION | COUNTY | IJDC # | PROJECT COST | COMMITTED FUNDS |
|--------------------------------|---|------------|------------|---------------|-----------------|
| LEWISBURG, CITY OF | The City of Lewisburg has decided to undertake a water system improvements project that includes a new treatment plant, new raw water intake and line, distribution system work that will include new water storage tanks and/or renovation of the existing tanks and the abandonment of 2 existing booster stations. | GREENBRIER | 2014W-1536 | 36,410,650.00 | - |
| RONCEVERTE, CITY OF | The sponsor is proposing a water system upgrade project consisting of replacing apx 11,400 lf of 8", 6", 4", & 2" existing old cast iron lead joint pipe, asbestos concrete pipe & galvanized water mains, 2,600 lf of existing galvanized water service lines, 100 existing water meter installations and other related appurtenances on existing city streets to reduce water loss in the water distribution system to more acceptable levels. Project includes upgrading existing water booster stations. | GREENBRIER | 2020W-1894 | 2,000,000.00 | 0.00 |
| WHITE SULPHUR SPRINGS, CITY OF | The City of White Sulphur Springs provides water service to approximately 1,791 customers across southeastern Greenbrier County. This Preliminary Engineering Report outlines a proposed project that would provide public water to approximately 50 potential customers living in the areas along and near County Route 60/14 (known as Harts Run Road). The service area also includes one business (UPS) and a planned business development. The existing system in this area belongs to the Greenbrier State Forest and consists of multiple wells and block reservoirs that supplies water via old service lines. The system is in need of an upgrade and a sustainable source. The proximity of the City of White Sulphur Springs water system makes supplying this area feasible and cost effective. The project includes approximately 21,000 linear feet of distribution line, valves, meters, hydrants and other appurtenances. All water for this project will be supplied by the City's existing plant. | GREENBRIER | 2017W-1724 | 1,600,000.00 | 400,000.00 |

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Current Needs - Approved Water Applications Requiring Funding

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| SPONSOR | PROJECT DESCRIPTION | COUNTY | IJDC # | PROJECT COST | COMMITTED FUNDS |
|-----------------------|---|------------|------------|---------------|-----------------|
| RAINELLE, TOWN OF | The Town of Rainelle's Water Storage Facilities Upgrade will consist of the complete painting and rehabilitation of four (4) existing water tanks and the installation of one (1) new water tank to replace an existing undersized tank. The project will include the conversion of the undersized tank into a clear well. | GREENBRIER | 2019W-1828 | 1,500,000.00 | - |
| CENTRAL HAMPSHIRE PSD | Water system providing water service and fire protection to approximately 120-130 customers that have already signed up for water in the Purgitsville area of southwestern Hampshire County along Route 220 and side roads, including main water lines, a water storage tank, and water supply from the Hardy County PSD through a tie in at the Hardy-Hampshire county boundary. | HAMPSHIRE | 2020W-1874 | 2,500,000.00 | - |
| ROMNEY, CITY OF | The Town of Romney is proposing a water system improvement consisting of the installation of approx 14,000 LF of water line, with associated connections into existing water lines, new gate valves, hydrant assemblies, re-connection of existing services, an automatic blow off assembly, HMA overlay, and various driveway and road repairs. The project proposes the installation of a complete Advance Metering Infrastructure metering system. Additionally the project will detail WTP upgrades consisting of the replacement of influent gate valves, clean and inspection of the clear well, replacement of basin settling tubes, storage building addition, automatic bulk water system, repair of air scour system, new air system at intake, new filter/finished and settled water turbidity meter, hard wire intake controls, new chemical injection pumps, new exhaust fans and lighting and other necessary appurtenances | HAMPSHIRE | 2020W-1881 | 2,569,000.00 | 200,000.00 |
| WEIRTON WATER BOARD | This project will allow the engineer (the Thrasher Group) to evaluate the City's water system for capacity and evaluate alternatives to expanding the capacity for potential economic development. | HANCOCK | 2019W-1795 | 23,795,000.00 | 25,000.00 |

Appendix C**Current Needs - Approved Water Applications Requiring Funding****As of 12/31/20**

| SPONSOR | PROJECT DESCRIPTION | COUNTY | IJDC # | PROJECT COST | COMMITTED FUNDS |
|-----------------------------|--|----------|------------|--------------|-----------------|
| WEIRTON WATER BOARD | Water plant and line improvements to prevent loss of water service due to main line disruption as happened in the past. | HANCOCK | 2015W-1580 | 6,900,000.00 | 6,900,000.00 |
| HARDY COUNTY PSD | Extend potable water service to the Dover Hollow and Fort Run areas of Hardy County, WV | HARDY | 2014W-1490 | 904,500.00 | 0.00 |
| GREATER HARRISON COUNTY PSD | Critical Needs Funding Request-Extending Service to 31 customers in the Stevens run area. | HARRISON | 2020W-1899 | 799,999.00 | 0.00 |
| GREATER HARRISON COUNTY PSD | Greater Harrison County PSD plans to extend water service to customers along Hoop Pole Run Road, Long Run Road and Steven's Run Road, | HARRISON | 2015W-1566 | 2,326,000.00 | - |
| SALEM, CITY OF | Proposed upgrades/line replacements to the city's potable water distribution system and water storage facilities to include construction of a 350,000 water storage at a new location and approximately 10,000 LF of water line replacement/upgrade varying in size from 4" to 8". | HARRISON | 2017W-1676 | 1,520,000.00 | 0.00 |

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| SPONSOR | PROJECT DESCRIPTION | COUNTY | IJDC # | PROJECT COST | COMMITTED FUNDS |
|-----------------------------|---|---------|------------|--------------|-----------------|
| RAVENSWOOD, CITY OF | <p>The City of Ravenswood, WV owns and operates a potable water treatment and distribution system that currently serves 1,876 residential and commercial customers, and provides bulk water to the Northern Jackson Public Service District which serves 1,086 customers. Current water production facilities consist of seven (7) deep wells; chlorination and fluoridation equipment, two baffled clearwells, and high service pumps. Distribution facilities consist of 116,160 LF of water mains, three 500,000 gallon tanks and a hydropneumatic booster pumping station. Some of the facilities date from as long ago as 1939, while the most recent facilities (wells 6 and 7) were installed in 2004.</p> <p>The City desires to refurbish or replace components of the system that are no longer fully functional or are deteriorating. Additional improvements will address shortcomings identified by the WV Bureau for Public Health in its most recent (2017) Sanitary Survey.</p> <p>Items to be addressed include replacing existing water meters with radio-read meters, replacing non-functional valves, sand blasting and repainting all three tanks, adding fencing at the Hillcrest tank site, replacing limited lengths of leaking mains and installing a new emergency generator and electrical equipment at the water treatment plant.</p> | JACKSON | 2020W-1860 | 6,201,045.00 | 0.00 |
| NORTHERN JACKSON COUNTY PSD | <p>This water extension includes the installation of approximately 22,500 l.f. of 6-inch, 2,500 l.f. of 2-inch, and miscellaneous appurtenances to serve the area of upper Trace Fork Road. Approximately 54 new customers will be added to the existing system.</p> | JACKSON | 2014W-1524 | 1,184,000.00 | 704,000.00 |

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| SPONSOR | PROJECT DESCRIPTION | COUNTY | IJDC # | PROJECT COST | COMMITTED FUNDS |
|-----------------------------|--|---------|------------|--------------|-----------------|
| SOUTHERN JACKSON COUNTY PSD | This project consists of the extension of public water service to the Station Camp Road, Windell Ridge, Jim Ridge, and White Pine areas of Jackson County. | JACKSON | 2018W-1732 | 3,460,000.00 | 0.00 |
| RIPLEY, CITY OF | Emergency repair of structural dam failure at City of Ripley's intake pool on Mill Creek. Work includes a cofferdam upstream, bypass, and reconstruction of dam base and creek bed to fill voids. | JACKSON | 2019W-1820 | 500,000.00 | - |
| KANAWHA COUNTY RDA | To provide potable water to the residents of Olcott thru a public private partnership with West Virginia American Water | KANAWHA | 2020W-1896 | 6,990,000.00 | 979,895.00 |
| CEDAR GROVE, TOWN OF | This project is proposed to upgrade and replace much of the Cedar Grove water distribution system. The current system is old and has a large amount of unaccounted for water. This project is planned to reduce UFW, improve reliability and quality of service. | KANAWHA | 2015W-1582 | 5,722,060.00 | - |
| LEWIS COUNTY EDA | This proposed project plans to extend water distribution service to the areas of Oil Creek, Copley, Wolfpen, and Wheeler Fork. This project intends to serve approximately 232 potential customers that currently have unreliable and/or low quality water available. | LEWIS | 2016W-1630 | 6,950,000.00 | 0.00 |
| LINCOLN COUNTY PSD | Lower Mud River Water Extension Project Phase II will make service available to approximately 70 potential residents and small commercial customers in the Lincoln County communities of Lower Mud River, Buffalo Creek, Little Buffalo Creek, and surrounding areas. The project consists of the construction of approximately 39,850 linear feet of 8-inch and smaller diameter water main, 23 fire hydrants, valves and individual customer services and other related appurtenances. Water for the project will be purchased from the West Virginia American Water Company's Water System at Hamlin. | LINCOLN | 2017W-1671 | 2,337,000.00 | - |

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| SPONSOR | PROJECT DESCRIPTION | COUNTY | IJDC # | PROJECT COST | COMMITTED FUNDS |
|----------------------|---|---------|------------|--------------|-----------------|
| WEST HAMLIN, TOWN OF | Refurbish the water treatment facility (including the building, raw water pump station, filters, sedimentation basin and clearwell.) Refurbish the booster pumping station, three (3) welded water storage tanks and one (1) glass-lined tank. Build an additional water storage tank, add a second sedimentation basin and an on-site emergency generator. Reestablish the inter-connection with the Salt Rock Water Public Service District's (PSD) water main. | LINCOLN | 2020W-1876 | 5,862,100.00 | 0.00 |
| RIVESVILLE, TOWN OF | Proposed project will replace the water supply line from the Bellview master meter in Fairmont to the meters at Hawkinberry Hollow outside of Rivesville. | MARION | 2017W-1677 | 2,417,895.00 | 1,500,000.00 |
| WORTHINGTON, TOWN OF | The Town of Worthington intends to repaint and upgrade its two storage tanks, replace its existing water meters, replace 8,500 LF of 2-inch and 6-inch mains, install 500 LF of new 4-inch main, install one hydro-pneumatic booster pump station, replace 17 valves, refurbish two PRV stations, install leak detection meters and replace its maintenance garage facility. | MARION | 2019W-1810 | 3,366,390.00 | - |
| RIVESVILLE, TOWN OF | The proposed project addresses four specific items that the Town of Rivesville has been directed to address by either the Bureau for Public Health and/or the Public Service Commission. Those items include: 1) Address the Pleasant View Service area low pressure problem, 2) Replace Smith Hollow Water Storage Tank, 3) Replacement/Relocation of the Sugarlane Master Service Meter, and 4) Upgrade of the System Telemetry. | MARION | 2019W-1803 | 529,000.00 | 0.00 |

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| SPONSOR | PROJECT DESCRIPTION | COUNTY | IJDC # | PROJECT COST | COMMITTED FUNDS |
|---|--|----------|------------|--------------|-----------------|
| FAIRVIEW, TOWN OF | Phase I of 2. The project will include a connection to the Monumental PSD; this will consist of a booster pump station and a new 6-inch main; repair and refurbishment of two existing water tanks, upgrade access roads, replace telemetry system and construct new water office. | MARION | 2020W-1861 | 3,050,000.00 | 0.00 |
| FARMINGTON, TOWN OF | Rehabilitation of water lines and related appurtenances along First Street, Second Street, Third Street, Fourth Street, Morgantown Road, Sycamore Street, Swearigen Street, and Anderson Street, all within the Town of Farmington and all water meters, water lines, a pump station, a water storage tank, and related appurtenances for facilities formerly owned by Little Laurel Water Improvement Association, Inc. and Lincoln Heights Improvement Association acquired by the Town of Farmington in WVPSC Case Numbers 17-0048-W-PC and 17-0049-W-PC, respectively | MARION | 2020W-1911 | 2,737,000.00 | - |
| FARMINGTON, TOWN OF | Water line replacement in the northwest area in the Town of Farmington and for Little Laurel Run Water Assoc., installation of a telemetry system to control the operation of Little Laurel Run booster pump station and monitor storage tank water levels. This project also proposes to renovate the existing 100,000 gallon water storage tank and upgrading the existing water booster pump station for the Little Laurel Run system. This project description amends the original project by not replacing the water lines in the Lincoln Heights Improvement Association. This is due to the Lincoln Heights water system being in good shape. | MARION | 2017W-1681 | 1,025,000.00 | - |
| MOUNDSVILLE, CITY OF (MOUNDSVILLE WATER COMPANY) | Replacing approximately 3,100 LF of an existing 6" water line with a new 8" line, including meters, valves, tie-ins, sidewalk repair, etc. | MARSHALL | 2018W-1744 | 1,283,930.00 | - |

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| SPONSOR | PROJECT DESCRIPTION | COUNTY | IJDC # | PROJECT COST | COMMITTED FUNDS |
|---------------------|---|----------|------------|--------------|-----------------|
| CAMERON, CITY OF | Make improvements to the City's Water System and Extend Water Service approximately 1.6 miles along Green Valley and Tunnel Hill Roads to serve 52 new customers. | MARSHALL | 2013W-1448 | 1,710,951.24 | 103,161.24 |
| MCDOWELL COUNTY PSD | To replace the current water systems in the Towns of Northfork and Keystone in McDowell County, WV. | MCDOWELL | 2014W-1513 | 6,330,000.00 | 3,350,000.00 |
| LASHMEET PSD | Extension of public water to the Mary Branch area of Mercer County, West Virginia | MERCER | 2018W-1728 | 2,555,000.00 | - |
| KEYSER, CITY OF | Repainting existing 50,000 gallon Brookhaven storage tank, refurbish existing Brookhaven pumping station, upgrade Limestone Run Booster pumping station and replace additional valves, meters, etc. in the distribution system. This project will compliment the City's ongoing water treatment plant upgrade (Phase 2) and distribution system improvements (Phase 1) projects, which have been funded by the USDA RUS | MINERAL | 2014W-1519 | 951,120.00 | - |
| MINGO COUNTY PSD | The proposed project will provide service to approximately 213 potential residential/small commercial customers, as well as the Huff Consolidated School and the U.S. Army Corps of Engineers facility at RD Bailey Lake. | MINGO | 2019W-1826 | 7,840,000.00 | 40,000.00 |

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| SPONSOR | PROJECT DESCRIPTION | COUNTY | IJDC # | PROJECT COST | COMMITTED FUNDS |
|------------------|--|--------|------------|--------------|-----------------|
| MINGO COUNTY PSD | <p>The proposed Twisted Gun Water Extension Project is being implemented by the Mingo County Public Service District. The Project is being sponsored by the Mingo County Public Service District (MCPSD) and Mingo County Redevelopment Authority (MCRA). The proposed area to be served is a golf course constructed on a reclaimed surface mining operation in southern Mingo County that is currently operated by the Bella Vista LLC through an agreement with the Mingo County Redevelopment Authority. The project is necessary to provide quality and dependable potable water and fire protection service to the 343-acre golf course and surrounding developable area located the Stafford Magisterial District of Mingo County, West Virginia.</p> <p>The Twisted Gun Golf Course was opened in 2002 through a joint venture by Alpha Natural Resources, Arch Coal Company and Pocahontas Land Company. The course was opened as a Professional Golf Association (PGA) style course with four sets of tees playing between 7,015 and 5,155 yards. When the course first opened, it was known as one of the state's finest public golf courses. The golf course was donated to the MCRA on June 11, 2015. Since then Bella Vista LLC. has developed plans to open a restaurant and build condominiums at the course but the plans depend on a potable water and fire protections. The course currently uses well water to serve the course. The well water is substandard at best with a strong sulfur odor and is unsuitable for any development at the golf course.</p> <p>The Twisted Gun Water Extension Project will consist of the construction of approximately 10,600 feet of 8-inch diameter and smaller water line, a sixty gallon per minute</p> | MINGO | 2016W-1659 | 1,740,600.00 | 350,000.00 |

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| SPONSOR | PROJECT DESCRIPTION | COUNTY | IJDC # | PROJECT COST | COMMITTED FUNDS |
|--------------------------|--|--------|------------|---------------|-----------------|
| WILLIAMSON, CITY OF | Upgrade of Williamson's water system including construction of 15,100 l.f. of 24in and smaller water main, three 2,500gpm treatment plant high service pumps, 500gpm booster station, four new water storage tanks, rehab of existing tank, numerous pressure reducing stations, back up generators, telemetry, hydrants, valves and related appurtenances. | MINGO | 2015W-1587 | 12,578,000.00 | 0.00 |
| GILBERT WATERWORKS, TOWN | The project will consist of upgrading the Water Treatment Plant for the Town of Gilbert, Mingo County, West Virginia | MINGO | 2015W-1598 | 6,487,000.00 | 0.00 |
| GILBERT WATERWORKS, TOWN | <p>The proposed River Bend Road Waterline Extension Project will make service available to approximately thirty three potential residential and small commercial customers (82 persons) between the Mingo County communities of Verner and Paynter Bottom.</p> <p>The project consists of the construction of approximately 13,210 linear feet of 8-inch and smaller diameter water main, one 250 gallon per minute booster station, one 200 gallon per minute booster station, fire hydrants, valves, individual customer services and other related appurtenances.</p> | MINGO | 2015W-1605 | 2,229,000.00 | 0.00 |
| KERMIT, TOWN OF | The project consists of removal/replacement of the Town's existing waterline along U.S. 52 as well as significant rehabilitation of the WTP. Construction includes 3,400LF of 6" waterline, two 3/4" Air Release valves, a Gate Valve and other related appurtenances; removing and replacing the 400GPM and the 300GPM High Service Pumps and controls, repair of existing (plant) exterior concrete, upgrade of the interior piping and valves, installation of a structure over the present sedimentation basin and miscellaneous electrical upgrades. | MINGO | 2019W-1801 | 3,433,000.00 | - |

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| SPONSOR | PROJECT DESCRIPTION | COUNTY | IJDC # | PROJECT COST | COMMITTED FUNDS |
|--|--|------------|------------|--------------|-----------------|
| RIVER ROAD PSD | The project proposes to replace water lines in the Booth Area and Birchfield Area; replace the Old Steel Harmony Grove Tank; install controls to improve water storage turnover at Hildebrand Tank; and upgrade piping at the existing booster pump station. | MONONGALIA | 2015W-1565 | 2,546,000.00 | 2,546,000.00 |
| UNION, TOWN OF | Extension of Water Service from The Town of Union two miles north on US Rt. 219 to the UTC Aerospace Systems Plant in Monroe County. | MONROE | 2015W-1560 | 2,530,000.00 | 0.00 |
| UNION, TOWN OF | Extension of water line to approximately 89 customers in the community of Pickaway, north of Union on U. S. Route 219. | MONROE | 2015W-1577 | 2,321,000.00 | 0.00 |
| RED SULPHUR PSD | Extension of water line to 77 potential customers on Adair Road north of U. S. Route 219 and west of State Route 12, between Peterstown and Cashmere in Monroe County, WV. | MONROE | 2015W-1578 | 2,170,000.00 | 0.00 |
| BATH-BERKELEY SPRINGS WATER DEPARTMENT | The project involves the replacement of additional existing water lines in the Town of Bath. Including replacing @ 15,575 feet of water lines ranging in size from ¾" to 6". The project will include replacing @ 100 existing meter services and miscellaneous valves and road repairs. The goal of the project is to reduce water loss and enable the Berkeley Springs Waterworks to be more sufficient. | MORGAN | 2016W-1638 | 2,000,000.00 | 500,000.00 |
| CRAIGSVILLE PSD | Project will provide water service to the residents along County Rt 3 beginning where it intersects with Lick Fork (Route 3/5) & runs to the community of Tioga. Also includes Horse Run, Delphi Rd, Bear Pen Rd, Big Run Rd & Lick Fork Rd. Project will serve apx 110 customers. | NICHOLAS | 2015W-1584 | 3,738,210.00 | 3,738,210.00 |

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| SPONSOR | PROJECT DESCRIPTION | COUNTY | IJDC # | PROJECT COST | COMMITTED FUNDS |
|--------------------|--|----------|------------|--------------|-----------------|
| BIRCH RIVER PSD | The Mill Creek Water Extension Project will extend potable water service to approximately 18 new customers in the northeastern corner of Nicholas County (near the Webster and Braxton County borders) who suffer from inadequate well systems. The project will consist of 10,350 LF of 4" and 1,700 LF of 2" water mains. These distribution lines will be fed by a proposed booster pump station. | NICHOLAS | 2018W-1749 | 1,055,000.00 | - |
| NETTIE LEIVASY PSD | Nettie Leivasy PSD proposes to undertake a water system rehabilitation project that includes the replacement of 10 pressure reducing stations, refurbishment of 1 pressure reducing station, installation of eight 4-inch and six 6-inch gate valves on existing lines, installation of 10 leak detection meter assemblies, purchase and delivery of 750 radio read water meters, installation of new aerial creek crossing (including valves, piping and support structure), install new 350 gpm alternate raw water pump station (with telemetry), replace altitude valve at Canvas Tank, install control valve and vaults at Canvas Tank, install control valve and vaults at Leivasy tank. The project also includes the rehabilitation of one 125,000 gallon elevated storage tank and the demolition of one 125,000 elevated water storage tank and construction of a new 231,000 clearwell tank and a new 1,000 gpm backwash pumping station. | NICHOLAS | 2019W-1856 | 3,088,000.00 | 0.00 |
| WILDERNESS PSD | Line upgrade & extension | NICHOLAS | 2019W-1858 | 2,040,000.00 | 381,600.00 |

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| SPONSOR | PROJECT DESCRIPTION | COUNTY | IJDC # | PROJECT COST | COMMITTED FUNDS |
|-------------------|--|-----------|------------|--------------|-----------------|
| FRANKLIN, TOWN OF | <p>The Town will be making several waterline replacements and installations throughout its system, including replacements and installations of hydrants, valves, and service lines, in addition to some 8 inch directional drill river crossings. Also, the Town needs to sandblast and repaint its Hanover tank, as well as install an altitude valve and upgrade the tank's access road. Telemetry will be installed at the Morton tank, and an upgrade will be made at the Town's secondary raw water source.</p> <p>The Town also has several upgrades needed to be done to its water treatment system. Those include replacing the backwash pump and upgrading the backwash tank, upgrading instrumentation and installing automation capabilities at the plant, installing two new 40,000 gallon clearwell tanks, upgrading the plant building, upgrading the town's primary water source (spring), installing variable frequency drives for the pump motors, upgrading the sediment basin concrete work, replacing the plant emergency generator with new transfer switch, and refurbishing the existing 350 gpm filter system.</p> | PENDLETON | 2019W-1845 | 3,472,318.00 | 200,000.00 |

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| SPONSOR | PROJECT DESCRIPTION | COUNTY | IJDC # | PROJECT COST | COMMITTED FUNDS |
|-----------------------------------|--|---------|------------|--------------|-----------------|
| TERRA ALTA WATER WORKS | The Terra Alta Water System Water Line Extensions, Water Line Improvements, System Improvements and Water Treatment Plant Upgrade project includes approximately 39,000 LF of new water line outside of town which will add 25 new customers, 2000 LF of replacement water line in town, upgrades to the water treatment plant, replacement of the existing 200,000-gallon Goodwell Water Storage Tank, upgrade of the Corinth Water Storage Tank altitude valve, approximately 779 radio read water meters and related equipment and software for existing and new customers, and the purchase of a new compact excavator, new equipment trailer, and new service/dump truck necessary for the continued operation and maintenance of the system. | PRESTON | 2019W-1787 | 5,581,000.00 | 5,581,000.00 |
| PUTNAM COUNTY COMMISSION | To provide potable water to an observed area of Jim Ridge in Putnam County | PUTNAM | 2019W-1830 | 2,750,000.00 | 508,000.00 |
| PUTNAM COUNTY BUILDING COMMISSION | To serve 39 residences along Manila Ridge with potable water. This project consists of approximately 30,000 lineal feet of 6 inch waterline. | PUTNAM | 2013W-1465 | 1,676,000.00 | 176,000.00 |
| COOL RIDGE-FLAT TOP PSD | The White Oak Waterline Extension Project will provide public water service to residents along the Raleigh and Summers County border. The project limits are from the intersection of Mount View and White Oak Road going north on White Oak Road to the intersection with Hinton Road (Route 3) and extending one mile along Hinton Road in each direction from the intersection. The project will serve approximately 30 households in Raleigh County. | RALEIGH | 2019W-1814 | 1,867,588.00 | 1,867,588.00 |

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| SPONSOR | PROJECT DESCRIPTION | COUNTY | IJDC # | PROJECT COST | COMMITTED FUNDS |
|---------------------------|--|----------|------------|--------------|-----------------|
| HUTTONSVILLE PSD | A water line extension to provide water service to an unserved section of rural Randolph County. The proposed project will bring clean, affordable drinking water to roughly 250 customers. The HPSD currently is constructing a new Water Treatment Plant and will have the ability to service new areas in rural Randolph Co., including those proposed in this project. | RANDOLPH | 2014W-1541 | 6,885,000.00 | 6,885,000.00 |
| WALTON PSD | Repair both the damaged Ambler Ridge and Gandeeville tanks and replace the PSD's failing telemetry system. | ROANE | 2019W-1790 | 989,800.00 | - |
| CLAY-ROANE PSD | Clay Roane PSD water extension to serve Garner Branch and Pine Grove areas, two new tanks, plus various system improvements and upgrades. | ROANE | 2017W-1688 | 2,854,960.00 | - |
| WALTON PSD | For the Walton PSD, Roane County, to extend its potable water service along Quarry Road and Wolf Run and also provide fire service to the Camp Shepard 4-H Campsite. | ROANE | 2015W-1564 | 2,349,550.00 | - |
| REEDY, TOWN OF | This project will extend water service to approximately 70 new households in the Middle Fork area of Roane County. | ROANE | 2017W-1692 | 1,985,000.00 | - |
| SPENCER, CITY OF | Project involves replacement of aged and dilapidated water mains with 1,350 LF of 8" and 2,110 LF of 6" new water main, 5 hydrants, 45 reconnections, meter settings and reclamation/paving. | ROANE | 2020W-1912 | 990,000.00 | - |
| JUMPING BRANCH NIMITZ PSD | To provide water service to the Broomstraw Road and Mark Meador Road areas of western Summers County. Residents experience low water quantity and poor quality water issues in existing private wells. In addition, many residents haul water, use cisterns, and some report fecal contaminants in wells. | SUMMERS | 2019W-1815 | 4,990,000.00 | 425,000.00 |

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|---------------------------|---|---------|------------|--------------|-----------------|
| JUMPING BRANCH NIMITZ PSD | To provide water service to the Madams Creek Road area of western Summers County. Residents experience low water quantity and poor quality water issues in existing private wells. In addition, many residents haul water, use cisterns, and some report fecal contaminants in wells. | SUMMERS | 2019W-1816 | 3,519,000.00 | 25,000.00 |
| PARSONS, CITY OF | This project is to provide an emergency connection between two water systems (City of Parsons and Hamrick PSD) that will provide a secondary water source for each system. This project will allow compliance with Senate Bill 373. | TUCKER | 2015W-1573 | 575,000.00 | - |
| TYLER PSD | Extension of service to 167 potential customers along RT 18 and the Centerville - Alma area. A new storage tank and booster will be included to provide fire protection and much improved water supply for the area. | TYLER | 2019W-1804 | 3,526,503.00 | 268,000.00 |
| HODGESVILLE PSD | This project will replace approximately 175 service lines in the existing system. It will also include an extension on the Upper Peck's Run Road to serve an additional five customers. The project includes the installation of two 100,000 gallon water tanks as well as a booster pump station. The project also includes the installation of approximately 1,200 radio read meters. | UPSHUR | 2020W-1877 | 2,780,000.00 | - |
| CRUM PSD | Project will extend water service to approximately 162 customers in the Wayne County community of Sidney, including WV Route 152 and County Routes 32, 32/1, 52/14, 52/55, 52/72, 52/15, 30, 52/16 and 52/17. | WAYNE | 2012W-1326 | 4,330,000.00 | - |

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| SPONSOR | PROJECT DESCRIPTION | COUNTY | IJDC # | PROJECT COST | COMMITTED FUNDS |
|---------------------------|--|---------------|---------------|---------------------|------------------------|
| WEBSTER COUNTY EDA | The Diana to Guardian Waterline Extension consists of 30,400 feet of 8", 6", and 2" waterline to serve 60 homes/farms/businesses. The extension begins at the end of the existing line in Diana and extends along US Route 15 to the Guardian area and terminates at Bear Run. Extensions up Bear Run and Big Run are included in the project. | WEBSTER | 2020W-1913 | 2,708,040.00 | - |
| PADEN CITY, TOWN OF | Water line replacement, tank rehab, water treatment upgrades. | WETZEL | 2019W-1824 | 5,264,000.00 | - |
| ELIZABETH, TOWN OF | Water main replacement along WV Rt. 14. | WIRT | 2019W-1854 | 1,760,000.00 | - |
| PARKERSBURG UTILITY BOARD | Replacement of undersized and deteriorated water mains throughout the distribution system, South Side/Minner Avenue service area improvements, rehabilitation of WTP Backwash Basin, and rehabilitation of the South Reservoir and other storage tank improvements | WOOD | 2020W-1882 | 14,690,000.00 | - |
| MINERAL WELLS PSD | Make improvements to the Mineral Wells PSD water distribution system, complete water transmission improvements, and site improvements. | WOOD | 2017W-1700 | 3,311,000.00 | - |
| LUBECK PSD | Extension of public water service to approximately 207 households in the Belleville area of Wood County. | WOOD | 2013W-1462 | 3,680,367.00 | 3,680,367.00 |
| CLAYWOOD PARK PSD | Project entails miscellaneous water system improvements to enhance hydraulic capacity in two separate parts of the system; provide emergency preparedness through the addition of power generation at the water treatment plant and construction of additional system storage; replacement of old lines that are in the heart of the system; repainting of three tanks and the replacement of two tanks; a small water line extension serving 11 customers; and new equipment at two booster stations. | WOOD | 2014W-1535 | 5,043,944.00 | 5,043,944.00 |

Appendix C**Current Needs - Approved Water Applications Requiring Funding****As of 12/31/20**

| SPONSOR | PROJECT DESCRIPTION | COUNTY | IJDC # | PROJECT COST | COMMITTED FUNDS |
|---------------------|--|---------------|---------------|---------------------|------------------------|
| LOGAN COUNTY PSD | To provide service to potential customers in the Upper Huff Creek, Brush Fork, and Road Fork areas of northern Wyoming County. This project consists of construction of approximately 25,640' of 6" and small diameter waterline, one conventional booster station, one constant run booster station, one 54,000 gallon water storage tank, valves, fire hydrants, customer services, and other related appurtenances. | WYOMING | 2017W-1690 | 2,539,000.00 | 150,000.00 |
| LOGAN COUNTY PSD | <p>To provide water service to approximately 166 residential and small commercial customers in the communities of Coal Mountain, Big Cub Branch, Upper Sturgeon Branch, and Road Branch in Wyoming County. This waterline extension will address high iron and sulfur content in wells in addition to replacing the old 1930's era Coal Mountain - coal camp system currently serving a portion of the area.</p> <p>Project consists of construction of approximately 52,700 feet of 8-inch and smaller diameter waterline, two conventional booster pump stations, two pressure reducing stations, one 100,000 gallon and one 20,000 gallon water storage tanks, valves, fire hydrants and other related appurtenances.</p> | WYOMING | 2017W-1721 | 4,785,000.00 | 70,000.00 |
| EASTERN WYOMING PSD | Water Treatment Plant upgrades and development of secondary raw water source. | WYOMING | 2019W-1829 | 8,511,500.00 | - |
| OCEANA, TOWN OF | Phase 2 of a water system upgrade project for the Town of Oceana and the surrounding area. | WYOMING | 2019W-1840 | 4,000,000.00 | 4,000,000.00 |
| PINEVILLE, TOWN OF | To provide necessary water system upgrades to alleviate water loss, address sanitary survey deficiencies, and allow for water system expansions such as the Phase I: Brenton/Baileysville Waterline Extension Project. | WYOMING | 2020W-1891 | 8,343,282.42 | - |

Appendix C

Current Needs - Approved Water Applications Requiring Funding

As of 12/31/20

| SPONSOR | PROJECT DESCRIPTION | COUNTY | IJDC # | PROJECT COST | COMMITTED FUNDS |
|--------------------|--|---------|------------|--------------|-----------------|
| PINEVILLE, TOWN OF | To Provide reliable water service to the communities of Brenton, Baileysville, Double Camp, Green Camp, and Marianna, West Virginia as well as the Baileysville Elementary and Middle School. Also, this waterline extension would take the existing Brenton, Green Camp and Marianna systems offline. | WYOMING | 2020W-1903 | 5,261,500.00 | 4,585,000.00 |

Total

402,491,578.66

58,431,877.24

Appendix D**Current Needs - Approved Sewer Applications Requiring Funding****As of 12/31/20 (By County)**

| SPONSOR | PROJECT DESCRIPTION | COUNTY | IJDC # | PROJECT COST | COMMITTED FUNDS |
|---------------------|---|---------|------------|---------------|-----------------|
| BOONE COUNTY PSD | To Upgrade the current wastewater treatment plant near Danville and rehabilitate the sanitary sewer lines in West Madison | BOONE | 2013S-1420 | 4,370,000.00 | 34,200.00 |
| BOONE-RALEIGH PSD | To rehabilitate the Sanitary Sewer Treatment Plant, pump stations and lines of the Boone Raleigh PSD system | BOONE | 2019S-1832 | 7,161,000.00 | 0.00 |
| BURNSVILLE, TOWN OF | This project will make improvements to the Town of Burnsville's wastewater collection system. | BRAXTON | 2017S-1678 | 2,839,000.00 | 0.00 |
| FOLLANSBEE, CITY OF | This project will upgrade the wastewater treatment plant, upgrade/replace pump stations, replace existing sanitary sewer lines, and separate storm and sanitary sewer lines consistent with Follansbee's long term control plan. | BROOKE | 2018S-1757 | 10,269,865.00 | 0.00 |
| MILTON, CITY OF | This project proposes to remove and replace approximately 530 LF of 24-inch HDPE Storm Pipe, 6,735 LF of 10-inch PVC Gravity Sewer, 6,650 LF of eight (8) inch PVC Gravity Sewer, 80 LF of 8-inch DIP Gravity Sewer, 100 LF of six (6) inch PVC Force main, 3,300 LF of four (4) inch PVC Force main, 6,900 LF of four (4) inch PVC Gravity Sewer, 1,650 LF of two (2) inch PVC Force main, two (2) 60-inch Manholes, 71 48-inch Manholes, 135 Customer Reconnections, three (3) Lift Stations, one (1) tie-into existing Salt Rock PSD Force main and all other necessary appurtenances. Replacement of the sewer lines will be conducted using open trench excavation methods. The project will replace portions of the existing sewer mains as well as service laterals from the tie-in to the main line, to the customer's property line. Cleanouts will be installed at the property line for future maintenance purposes. | CABELL | 2018S-1725 | 7,900,000.00 | 0.00 |
| PEA RIDGE PSD | This project proposes to decommission and remove the existing, failed Holiday Park WWTP and replace it with a new WWTP. The existing gravity collection system will also be replaced by a new gravity system. A boundary adjustment is being made, as well as a revision to the NPDES Permit, to enable the Pea Ridge Sewer Public Service District to include the Holiday Park sanitary sewer system as part of the District's responsibility. | CABELL | 2018S-1750 | 2,345,000.00 | 0.00 |

Appendix D**Current Needs - Approved Sewer Applications Requiring Funding****As of 12/31/20 (By County)**

| SPONSOR | PROJECT DESCRIPTION | COUNTY | IJDC # | PROJECT COST | COMMITTED FUNDS |
|---------------------------|--|---------|------------|---------------|-----------------|
| BARBOURSVILLE, TOWN OF | Project will connect Barboursville Wastewater System to the Pea Ridge Sewer PSD's wastewater treatment system via a new force main, add one new pump station, and make upgrades to 2 existing pump stations. | CABELL | 2020S-1870 | 13,998,450.00 | 0.00 |
| GRANTSVILLE, TOWN OF | Critical repairs and replacement of components to Grantsville wastewater treatment plant. | CALHOUN | 2020S-1869 | 3,400,000.00 | 0.00 |
| MT. ZION PSD | Rehabilitate portions of the Mt. Zion PSD treatment plant and its system's components. | CALHOUN | 2017S-1702 | 2,310,000.00 | 0.00 |
| CLAY, TOWN OF | To rehabilitate the wastewater system in the Town of Clay that has deteriorated over time | CLAY | 2019S-1793 | 4,106,500.00 | 0.00 |
| MONTGOMERY SANITARY BOARD | Separation of combined sanitary and storm sewer systems | FAYETTE | 2019S-1783 | 1,848,431.00 | 1,848,431.00 |
| SMITHERS, CITY OF | Separating storm sewer for sanitary sewer to reduce CSO, line replacement including service laterals, drop inlets, etc. | FAYETTE | 2020S-1871 | 1,377,549.00 | 0.00 |
| WHITE OAK PSD | Installation of new sludge dewatering process & storage building on the existing WWTP property, as well as renovation of existing components in need of repair or replacement. | FAYETTE | 2019S-1808 | 4,593,145.00 | 0.00 |
| OAK HILL, CITY OF | This proposed project will make improvements to the existing sanitary sewer collection system in the Minden area of the City, including relocating a section of gravity sanitary sewer line and rehabilitating various manholes. The proposed project will also decommission two (2) pumping stations, upgrade two (2) pumping stations, and install a new pumping station to reduce excess flows at the OHSB Arbuckle Pump Station. The proposed improvements will work toward reducing or eliminating impacts of I&I on the sanitary sewer system. | FAYETTE | 2020S-1859 | 6,196,000.00 | 208,000.00 |

Appendix D**Current Needs - Approved Sewer Applications Requiring Funding****As of 12/31/20 (By County)**

| SPONSOR | PROJECT DESCRIPTION | COUNTY | IJDC # | PROJECT COST | COMMITTED FUNDS |
|---------------------|--|------------|------------|--------------|-----------------|
| SMITHERS, CITY OF | This project proposes to address I&I within Smithers's wastewater collection system. An I&I study consisting of smoke testing and in-line camera investigations of existing sanitary sewer infrastructure will be conducted in order to identify the most significant sources of I&I. This project also consists of the rehabilitation of two (2) existing lift stations, approximately 5,200 LF of gravity sewer mains will be removed and replaced, approximately 20 manholes and all necessary appurtenances. | FAYETTE | 2020S-1914 | 1,960,545.00 | 0.00 |
| PAX, TOWN OF | Sewer extension to serve approximately 52 customers in the Willis Branch area just outside the Town of Pax, as well as improvements to the existing treatment lagoon. | FAYETTE | 2015S-1589 | 2,325,000.00 | 2,325,000.00 |
| SAND FORK, TOWN OF | This project will make improvements to the Town's sanitary sewer collection and treatment system. | GILMER | 2016S-1662 | 2,500,000.00 | 0.00 |
| RONCEVERTE, CITY OF | The project will replace the leaking river interceptor and a number of broken or undersized vitrified clay gravity sewer mains, provide much greater access to those sewer lines for cleaning and maintenance, as well as replacing an uncased railroad crossing. | GREENBRIER | 2019S-1857 | 4,385,000.00 | 0.00 |

Appendix D

Current Needs - Approved Sewer Applications Requiring Funding

As of 12/31/20 (By County)

| SPONSOR | PROJECT DESCRIPTION | COUNTY | IJDC # | PROJECT COST | COMMITTED FUNDS |
|--------------------------|---|------------|------------|---------------|-----------------|
| GREENBRIER COUNTY PSD #2 | <p>This project proposes to upgrade the District's existing WWTP in order to prolong the useful life of the facility. New construction for this project includes a new headworks building and a new influent lift station. The proposed headworks facility will contain package headworks equipment, and a bridge crane and trolley hoists. This project also entails upgrades to the existing WWTP facilities. Equipment will be removed and replaced in the oxidation ditch, secondary clarifiers, chlorine contact tank. The oxidation ditch will receive new rotors with VFDs, disc aerators, covers, DO control system, effluent weirs and troughs, and valves and piping, and will also be cleaned and receive a fresh coat of paint. The secondary clarifier shall have its sludge collection and scum removal equipment removed and replaced, and shall be outfitted with a new access bridge, walkway, handrail, valves, and piping. A chlorine feed building will be installed on the existing post-aeration basin, which will also receive new chlorination/dichlorination feed equipment, effluent flow meter, fiberglass grease baffle, and fresh paint. Various miscellaneous improvements will be made to the sludge drying beds, site lighting and electrical systems.</p> <p>In addition, this project proposes to remediate the District's Quinwood collection system in order to address I&I issues. Approximately 68,500 LF gravity sewer mains, ranging between four (4) inches and 10 inches in diameter and 3,500 LF of four (4) inch forcemain will be removed and replaced. Seven (7) pump stations will be upgraded with new pumps, one (1) pump station will be converted to a wet well with submersible pumps, and two (2) pump stations will be decommissioned and replaced with a single larger pump station.</p> | GREENBRIER | 2020S-1887 | 22,335,000.00 | 0.00 |

Appendix D**Current Needs - Approved Sewer Applications Requiring Funding****As of 12/31/20 (By County)**

| SPONSOR | PROJECT DESCRIPTION | COUNTY | IJDC # | PROJECT COST | COMMITTED FUNDS |
|-------------------------|---|-----------|------------|---------------|-----------------|
| ROMNEY, CITY OF | The Town of Romney sanitary system improvement project encompassing in the removal and replacement of approximately 9,530 LF of exiting gravity collection system, with associated manholes, service re-connections and road repairs, installation of third pump within an existing lift station to independently handle high storm flows, replacement of the existing lift station trailer mounted backup generator and installation of new 12" & 24" values on the existing sanitary lines and other necessary appurtenances at the WWTP to enable storage and control of high sanitary flows | HAMPSHIRE | 2020S-1880 | 2,000,000.00 | 0.00 |
| WEIRTON SANITARY BOARD | This project will allow the engineer (the Thrasher Goup) to evaluate the City's wastewater system for capacity and evaluate alternatives for expanding the capacity of the wastewater treatment plant for potential economic development. | HANCOCK | 2019S-1797 | 23,880,000.00 | 30,000.00 |
| NEW CUMBERLAND, CITY OF | Rehab of equipment failing and at the end of its useful life in the wastewater treatment plant, the vacuum pump station, and other pump stations in the system. | HANCOCK | 2019S-1843 | 2,727,600.00 | 2,421,000.00 |
| WARDENSVILLE, TOWN OF | The Town of Wardensville sewer improvement project consists of improvements to the wastewater treatment plant, upgrades at two lift stations, inflow and infiltration study of the collection system, and installation of a SCADA system. | HARDY | 2020S-1873 | 1,704,500.00 | 139,500.00 |

Appendix D**Current Needs - Approved Sewer Applications Requiring Funding****As of 12/31/20 (By County)**

| SPONSOR | PROJECT DESCRIPTION | COUNTY | IJDC # | PROJECT COST | COMMITTED FUNDS |
|---|--|-----------|------------|---------------|-----------------|
| WEST FORK ONSITE COMMUNITY COOPERATIVE, INC | Decentralized wastewater collection and treatment system for the four unincorporated communities of Arlington, Glen Falls, Gore and Dawmont using a Septic Tank Effluent Pump (STEP) system that utilizes an onsite septic system for primary settling and treatment and then filtered effluent is pumped into a low-pressure piping network to a modular factory-built Packed Bed Media Treatment Facility in a central location. This application for Phase I of this project will construct the majority of the treatment plant and provide service to the community of Arlington. Phase II will finish the treatment plant and provide STEP service to the remaining three communities and will be a subsequent future IJDC application. | HARRISON | 2019S-1798 | 4,018,380.00 | 2,335,000.00 |
| SOUTHERN JACKSON COUNTY PSD | Wastewater Treatment Plant Improvements | JACKSON | 2018S-1767 | 9,704,000.00 | 0.00 |
| RIPLEY SANITARY BOARD | Construction of new Ripley SBR WWTP to treat existing Ripley flows plus Evans flows via new transmission line and closure of Ripley and Evans lagoons. | JACKSON | 2018S-1774 | 22,860,000.00 | 0.00 |
| RAVENSWOOD, CITY OF | Phase I of two includes pump station upgrades, telemetry equipment installation, flow meter installations, emergency power transfer switch installations, portable generator purchases, smoke testing and manhole inspection, and wastewater treatment plant design. | JACKSON | 2019S-1789 | 3,740,650.00 | 0.00 |
| JEFFERSON COUNTY PSD | Sewer Transmission Upgrade | JEFFERSON | 2014S-1538 | 7,150,000.00 | 7,150,000.00 |
| HARPERS FERRY BOLIVAR PSD | Harpers Ferry-Bolivar PSD Wastewater Treatment Plant Improvements Phase II | JEFFERSON | 2014S-1487 | 2,011,695.00 | 2,011,695.00 |
| ELK VALLEY PSD | To provide sewer service to 265 residences in the Blue Creek/Rt.119, Reamer, and Young's Bottom area of the Elk Valley Public Service District of Kanawha County | KANAWHA | 2013S-1429 | 5,973,509.00 | 0.00 |
| KANAWHA PSD | To provide sanitary sewer service from the Marmet WWTP to the 220 Residences and businesses along Route 94 to the Boone County Line. | KANAWHA | 2016S-1625 | 7,800,000.00 | 0.00 |

Appendix D**Current Needs - Approved Sewer Applications Requiring Funding****As of 12/31/20 (By County)**

| SPONSOR | PROJECT DESCRIPTION | COUNTY | IJDC # | PROJECT COST | COMMITTED FUNDS |
|---------------------------|--|---------|------------|---------------|-----------------|
| ELK VALLEY PSD | To reconstruct the areas of Hizer Trucking Slip, Reynolds Avenue Permanent Repair, and Reynolds Avenue Mitigation using 75% FEMA funding and the remainder of state and local funding | KANAWHA | 2017S-1706 | 2,158,490.00 | 1,658,490.00 |
| CHARLESTON SANITARY BOARD | Woodward Branch Sewer line upgrade/replacement project to serve 254 customers | KANAWHA | 2017S-1718 | 10,794,329.00 | 0.00 |
| SISSONVILLE PSD | Portions of the WWTP (constructed in 1980s) will be rehabilitated and/or improved to continue successful operation of the WWTP. Collection system improvements include: constructing a screen building and rehabilitation of two pump station wet wells. | KANAWHA | 2019S-1784 | 2,955,000.00 | 0.00 |
| CHARLESTON SANITARY BOARD | Make improvements within the Lick Branch/South Ruffner sewer shed area: in general includes apprx. 37,300-lf of replacement san. sewer and apprx. 6,600-lf of rehab. san. sewers. This is part of CSB's LTCP. | KANAWHA | 2012S-1337 | 11,613,300.00 | 11,613,300.00 |
| CHARLESTON SANITARY BOARD | Make improvements within Porter's Hollow sewer shed area: which generally includes apprx. 42,000-lf of replacement san. sewer and apprx. 5,000-lf of san sewer lining. This is part of CSB's CSO LTCP. | KANAWHA | 2014S-1521 | 14,934,300.00 | 14,934,300.00 |
| LINCOLN COUNTY PSD | Lincoln PSD proposes to build a new wastewater treatment plant and provide sewer service to approximately 224 residential and commercial customers in and around Alum Creek. | LINCOLN | 2016S-1642 | 7,900,000.00 | 0.00 |

Appendix D**Current Needs - Approved Sewer Applications Requiring Funding****As of 12/31/20 (By County)**

| SPONSOR | PROJECT DESCRIPTION | COUNTY | IJDC # | PROJECT COST | COMMITTED FUNDS |
|---------------------|---|----------|------------|--------------|-----------------|
| MONONGAH, TOWN OF | The Town of Monongah is proposing to replace existing sanitary sewer infrastructure within the town limits of Monongah, WV. The proposed project will replace approximately 7,820 linear feet of sanitary sewer line, install approximately 3,580 sanitary sewer line, install approximately 700 LF of new HOPE force main, install one new Duplex Submersible Non-Clog Lift Station, reconnection of new sanitary sewer lines into existing system and manholes, remove and replace 51 manholes, install 54 new manholes, replace six manhole frames and covers including grouting of internal seam, reconnection of 108 sanitary sewer lateral, installation of new 6" sanitary service cleanouts, videotaping and cleaning of approximately 2,500 linear feet of existing gravity sanitary sewer line, installation of two new Non-Clog Submersible pumps with one spare pump, replacement of lift station control panel, installation of new 8' diameter wet well, repair of approximately 19,250 linear feet of various road repair, bypass pumping and all other necessary appurtenances to complete the construction of the project. | MARION | 2018S-1780 | 4,125,000.00 | 0.00 |
| COLFAX PSD | Colfax is decommissioning there WWTP and extending their sewer lines to Kingmill Valley PSD who will send their sewage to the Fairmont WWTP. Colfax will also be working on I & I reduction. | MARION | 2014S-1520 | 2,043,806.00 | 1,304,877.00 |
| GREATER PAW PAW PSD | Sewer System for the community of Crown in Monongalia County including collection line and treatment system. Approximately 43 customers. Approval by Monongalia Co. Comm. to allow Greater PawPaw PSD in Marion Co. to initiate and construct project. | MARION | 2011S-1299 | 1,576,695.00 | 1,576,695.00 |
| BENWOOD, CITY OF | This project will address issues in the combined sewer overflows C-008, C-009, C-013 & C-015. WVDEP has issued a Notice of Violation for stream conditions downstream of C-008. C-008 is located in a tunnel which creates safety concerns for City employees. | MARSHALL | 2012S-1325 | 3,500,000.00 | 3,500,000.00 |

Appendix D**Current Needs - Approved Sewer Applications Requiring Funding****As of 12/31/20 (By County)**

| SPONSOR | PROJECT DESCRIPTION | COUNTY | IJDC # | PROJECT COST | COMMITTED FUNDS |
|--------------------------|---|----------|------------|---------------|-----------------|
| CAMERON, CITY OF | The City of Cameron proposes to complete upgrades to the Waste Water Treatment Plant and separate sections of combined sewer system to bring the sewer system in compliance with their WVNPDES permit. | MARSHALL | 2017S-1704 | 935,880.00 | 0.00 |
| Mercer County PSD | Repairs and upgrade to aging Matoaka Sewage Treatment Plant and wastewater collection system. | MERCER | 2020S-1883 | 2,149,000.00 | 0.00 |
| OAKVALE ROAD PSD | This project is to extend sewer service to portions of the areas of Hill Top Drive, Halls Ridge Road and Melrose Lane East of Princeton, WV. | MERCER | 2017S-1713 | 4,505,680.00 | 250,000.00 |
| BLUEFIELD, CITY OF | This project is for a sewer collection system upgrade in the community of Midway, just outside of Bluefield. The Bluefield Sanitary Board already serves this area. | MERCER | 2018S-1739 | 2,340,000.00 | 0.00 |
| BLUEFIELD SANITARY BOARD | Upgrade of College Avenue Collection System, Deerfield Pump Station and Westside Sewage Treatment Plant. | MERCER | 2018S-1769 | 14,959,231.00 | 11,818,519.00 |
| ATHENS, TOWN OF | Repairs to Athens Sewer Treatment Plant site and exposed sewer line caused by a micro-burst rain storm on May 27, 2018 | MERCER | 2019S-1805 | 728,121.00 | 100,000.00 |
| BLUEFIELD SANITARY BOARD | Rehab of four Cumberland Road PS Pumps and Ada WWTP upgrade | MERCER | 2011S-1270 | 1,588,474.00 | 1,588,474.00 |
| FRANKFORT PSD | Bids for Project No. 2013S-1435 came in above project estimates. Four lines scheduled for replacement as part of that project had to be eliminated due to availability of funds. Those lines included service to Sunrise Heights, Sherwood Acres, Knobley Estates and Moreland Mobile Home Park. This project requests funding to complete these line replacements. | MINERAL | 2015S-1606 | 3,700,000.00 | 3,700,000.00 |
| MINGO COUNTY PSD | Inflow and infiltration rehabilitation project for the entire collection system including minor improvements to the main pump station. | MINGO | 2018S-1776 | 3,000,000.00 | 0.00 |
| GILBERT, TOWN OF | Project will extend sewer service to approximately 83 customers (220 persons) in Mingo County along U.S. Route 52 between the Town of Gilbert and the community of Justice. | MINGO | 2012S-1318 | 4,428,000.00 | 0.00 |

Appendix D**Current Needs - Approved Sewer Applications Requiring Funding****As of 12/31/20 (By County)**

| SPONSOR | PROJECT DESCRIPTION | COUNTY | IJDC # | PROJECT COST | COMMITTED FUNDS |
|-------------------|---|------------|------------|--------------|-----------------|
| MATEWAN , TOWN OF | The proposed Red Jacket Sanitary Sewer Project will provide service to approx. 140 potential customers (350 persons) in the Mingo County community of Upper Mate Creek. The project consists of the construction of approx. 19,000' of 8" gravity pipe, 1,000' of 6" force main, 100 manholes, 2 major pumping stations, service laterals and other related appurtenances. Treatment will be provided by the Town of Matewan's existing wastewater treatment plant. Once constructed, it will take the place of the current failing Red Jacket PSD vacuum sewer collection system. Currently, the vacuum pits are being pumped out daily to prevent sewage from backing up into homes. The current sewage disposal methods in the area are a potential health threat and negatively contribute to the water quality of Mate Creek and other area streams. | MINGO | 2015S-1574 | 5,240,000.00 | 1,540,000.00 |
| DECKERS CREEK PSD | <p>Project includes demolition of an existing wastewater treatment plant, installation of a new gravity sanitary line from the demolished plant site to a new pump station near a low point along Dug Hill Road, the extension of a gravity sanitary line along Dug Hill Road & short sections along Shelby Rd, Turkeyfoot Ln, Bob White Ln, Wren Ln & 2 other unnamed extensions to connect to Valley View Acres (VVA) existing collection system, & construction of a force main to convey sewage from a new pump station on Dug Hill Road to an intermediate pump station on Dug Hill Road to a high point near S. Pierpont Road.</p> <p>Then a gravity sanitary sewer line would be constructed to convey the flow down to an existing Deckers Creek PSD manhole on S. Pierpont Road. In addition to conveying flow from VVA & nearby residences, the new line would serve residences on S. Pierpont Road & allow for future development. Approximately 60 new customers will be served by the project.</p> | MONONGALIA | 2016S-1653 | 2,378,440.00 | 0.00 |

Appendix D**Current Needs - Approved Sewer Applications Requiring Funding****As of 12/31/20 (By County)**

| SPONSOR | PROJECT DESCRIPTION | COUNTY | IJDC # | PROJECT COST | COMMITTED FUNDS |
|--------------------------|---|------------|------------|----------------|-----------------|
| MORGANTOWN UTILITY BOARD | 1. Star City WWTP Upgrades: modifications to headworks, primary treatment, and activated sludge; new silo digester, MBR secondary treatment and UV disinfection; upgrade office/control building; electrical upgrades. 2. Upgrade Poponoe Run Interceptor. | MONONGALIA | 2015S-1600 | 102,338,289.00 | 102,338,289.00 |
| WARM SPRINGS PSD | Removal and replacement and/or repair of sewer lines and manholes in the Biser Street subsystem and the Greenway Drive subsystem as well as certain improvements to the wastewater treatment plant including, but not limited to, 400 kW diesel generator, aeration tank/clarifier anti-icing system, garage, and related appurtenances. | MORGAN | 2020S-1885 | 3,890,000.00 | 0.00 |
| RICHWOOD, CITY OF | The project consists of removing and replacing approximately 15,000 LF of gravity sewer lines ranging in sizes from 8", 10", 12", 15", and 18". Cleaning approximately 5,000 LF of gravity sewer line. Removal and replacement of 31 manholes. Sewer Plant - Belt Filter Press replacement with new building. | NICHOLAS | 2018S-1779 | 7,450,000.00 | 0.00 |
| ALBRIGHT, TOWN OF | This project proposes rehabilitation in the areas of State Rt. 26, Methany Avenue, Main Street, Wall Street, Bishop Avenue, St. Joe Road, Central Avenue, McCrumb Street, 1st Street, Park Avenue, 2nd Street and the beginning of the Crane School Road by cleaning the existing collection lines, repairing and replacing manholes, replacing customer service laterals, replacing lateral wyes and cutting and capping any open service connections or clean outs not being used that are currently collecting storm and ground water. The project also proposes the upgrade of all 3 existing submersible grinder pump stations as well as the existing WWTP. | PRESTON | 2019S-1786 | 2,195,000.00 | 0.00 |
| NORTH BECKLEY PSD | To perform upgrades to the wastewater treatment plant, Sprague lift station and replace collection system lines. | RALEIGH | 2018S-1773 | 13,232,000.00 | 0.00 |

Appendix D**Current Needs - Approved Sewer Applications Requiring Funding****As of 12/31/20 (By County)**

| SPONSOR | PROJECT DESCRIPTION | COUNTY | IJDC # | PROJECT COST | COMMITTED FUNDS |
|----------------------------|--|----------|------------|---------------|-----------------|
| NORTH BECKLEY PSD | The proposed project is to extend sewer service into the unserved area Piney View along WV Route 41 and Stonewall Road. As well as to alleviate failing septic systems which often percolate well and pollute local streams. | RALEIGH | 2015S-1576 | 5,510,600.00 | 0.00 |
| CRAB ORCHARD-MACARTHUR PSD | Construction of a new sewer treatment plant at Holly Hills near Fairdale, and the extension of sewer service to approximately 265 new customers in the Glen Daniel - Marsh Fork area of Raleigh County. | RALEIGH | 2015S-1593 | 13,000,000.00 | 0.00 |
| SHADY SPRING PSD | To extend and provide new sewer service in the Pluto Road/Fire Trail areas of Raleigh County West Virginia. | RALEIGH | 2015S-1609 | 8,701,244.87 | 0.00 |
| SOPHIA, TOWN OF | Extension of sewer service from Sophia to Coal City Mobile Home Park and Coal City to serve 458 new customers. There will be a new "green" sewer plant included as part of this project. | RALEIGH | 2016S-1658 | 14,742,000.00 | 0.00 |
| SHADY SPRING PSD | Shady Spring Public Service District wishes to upgrade their Glen Morgan Wastewater Treatment Plant (WWTP), located at Glen Morgan, WV. The WWTP was constructed in 1982 and some of the original treatment equipment is still in service. The goal is to replace the older worn out equipment and upgrade the WWTP capacity from 1.2 MGD to 1.6 MGD by constructing additional treatment unit(s). | RALEIGH | 2020S-1910 | 5,947,000.00 | 0.00 |
| HUTTONSVILLE PSD | The project will make necessary improvements at the existing wastewater treatment plant to reduce ammonia, increase capacity, and also perform a study to reduce I/I in the collection system. | RANDOLPH | 2019S-1788 | 4,000,000.00 | 60,000.00 |
| ELKINS, CITY OF | Sewer separation of combined sewers in the South Elkins area. | RANDOLPH | 2017S-1712 | 4,187,600.00 | 0.00 |
| TOWN OF ELLENBORO | Wastewater treatment plant and collection system improvements. | RITCHIE | 2020S-1895 | 1,529,000.00 | 0.00 |

Appendix D**Current Needs - Approved Sewer Applications Requiring Funding****As of 12/31/20 (By County)**

| SPONSOR | PROJECT DESCRIPTION | COUNTY | IJDC # | PROJECT COST | COMMITTED FUNDS |
|---------------------|--|---------|------------|--------------|-----------------|
| AUBURN, TOWN OF | The Town of Auburn, which has no adequate wastewater treatment system, proposes to purchase and install individual wastewater filter units on each property and have the property owners assume ownership. The use of individual treatment units and a "Maintenance Association" will allow the Town to properly solve its sewage disposal problems and eliminate existing health hazard conditions in a manner that is affordable and sustainable. | RITCHIE | 2014S-1526 | 2,714,725.00 | 0.00 |
| REEDY, TOWN OF | Project consists of improvements to the Town of Reedy's wastewater collection system and treatment plant. | ROANE | 2014S-1507 | 632,000.00 | 0.00 |
| Walton Sewer PSD | Construction and installation of 1 30,000 gpd package wastewater treatment plant and a new collection system to serve approx. 115 customers in the Walton area. | ROANE | 2018S-1736 | 6,532,660.00 | 0.00 |
| SPENCER SEWER BOARD | Spencer's collection system is in need of remediation due to infiltration and inflow issues. Improvements will be made to the wastewater treatment works and crucial equipment replacements throughout the system. | ROANE | 2013S-1438 | 1,200,000.00 | 0.00 |
| BIG BEND PSD | The Big Bend PSD provides wastewater collection and disposal services to approximately 42 Summers County customers in two separate systems. The first system is located in the community of Hilldale, west of Talcott, and serves the Pine Hill Subdivision. The second system is located east of Talcott at Pence Springs. The plants have been poorly maintained and operated and the Environmental Enforcement section of the WVDEP has been seeking a consent order to force corrective action. This project will make some minor improvements at the Pine Hill facility and completely replace the Pence Springs plant. | SUMMERS | 2019S-1823 | 1,192,500.00 | 1,192,500.00 |
| HINTON, CITY OF | The City of Hinton will be addressing issues stated in their Sewer Long-Term CSO Plan. This involves upgrades and replacement of sections of sewer lines in the city limits. | SUMMERS | 2015S-1585 | 3,550,000.00 | 0.00 |

Appendix D**Current Needs - Approved Sewer Applications Requiring Funding****As of 12/31/20 (By County)**

| SPONSOR | PROJECT DESCRIPTION | COUNTY | IJDC # | PROJECT COST | COMMITTED FUNDS |
|---------------------------|--|---------|------------|--------------|-----------------|
| TAYLOR COUNTY COMMISSION | The Taylor County Commission is sponsoring a project to extend sewer service to a portion of Pruntytown, WV. Pruntytown has no dedicated sanitary sewer system. Residents rely on septic tanks for sewage collection and pumping trucks for removal. The nearest wastewater treatment plant is located in Grafton, WV. This project intends to extend sanitary sewer service to 25 new customers and tie-in to the Grafton's trunk line. Once the project is completed, all assets will be turned over to the Grafton. | TAYLOR | 2019S-1802 | 940,000.00 | 0.00 |
| CANAAN VALLEY PSD | This project is an extension of sanitary sewer services that will provide sewer service to the customers in the area of Winwood Fly-In Resort, Deerfield Village and Canaan Village. This project is the next phase (Zone B and Zone E) of Canaan Valley PSD's comprehensive sewer plan. | TUCKER | 2015S-1604 | 2,350,000.00 | 0.00 |
| SISTERSVILLE, CITY OF | Wastewater System Improvements Project to replace four pump stations and replace major components of the existing WWTP. | TYLER | 2020S-1875 | 3,600,000.00 | 0.00 |
| FORT GAY, TOWN OF | The proposed project will consist of mapping the collection system, rehabilitation of 85 existing manholes, replacement of approximately 2,500 LF of 8" gravity sewer, upgrades and rehabilitation at nine (9) existing pumping stations and two (2) existing grinder pump stations, and multiple upgrades and necessary rehabilitation at the wastewater treatment plant. | WAYNE | 2017S-1723 | 3,500,000.00 | 100,000.00 |
| NORTHERN WAYNE COUNTY PSD | Sewer upgrade for approximately 256 current customers in the Docks Creek drainage area as well as new line extensions for 90 to 95 unsewered homes in the Pine Hill Subdivision area. | WAYNE | 2014S-1534 | 4,441,088.00 | 1,000,000.00 |
| WEBSTER SPRINGS PSD | Construct a sanitary sewer collection and treatment system to serve approximately 61 customers in the community of Bergoo. | WEBSTER | 2018S-1777 | 2,692,500.00 | 2,692,500.00 |

Appendix D**Current Needs - Approved Sewer Applications Requiring Funding****As of 12/31/20 (By County)**

| SPONSOR | PROJECT DESCRIPTION | COUNTY | IJDC # | PROJECT COST | COMMITTED FUNDS |
|---------------------------|---|---------|------------|--------------|-----------------|
| WEBSTER SPRINGS PSD | The Webster Springs PSD Wastewater System Upgrade Project will address permit exceedances at the wastewater treatment plant as well as spills/overflows within the collection system due to excessive inflow and infiltration as well as lack of shelter at the plants sludge drying facility. Project will include relocation of main pump station and force main, pump station replacements and control upgrades, modifications to plant headworks, weir replacement and other incidentals. | WEBSTER | 2019S-1812 | 3,150,000.00 | 0.00 |
| COWEN PSD | To construct sewer collection system to serve apx 161 new customers & Camp Caesar 4H Camp | WEBSTER | 2014S-1515 | 4,400,000.00 | 4,400,000.00 |
| PINE GROVE, TOWN OF | Phase III of the Town's Sanitary Sewer project will consist of the replacement of the remainder of the failing vacuum collection system with gravity sewer lines and upgrades at the Waste Water Treatment Plant. | WETZEL | 2017S-1719 | 3,460,000.00 | 138,000.00 |
| CLAYWOOD PARK PSD | New sanitary sewer collection system in Spring Valley area of Wirt County to be treated at the existing treatment plant owned by Claywood Park. | WIRT | 2018S-1733 | 4,949,576.00 | 150,000.00 |
| MINERAL WELLS PSD | Replacement of several individual grinder pump stations, increasing the capacity of three existing lift stations, additional headworks at the wastewater treatment plant and associated collection system improvements. | WOOD | 2019S-1817 | 5,420,000.00 | 5,420,000.00 |
| PARKERSBURG UTILITY BOARD | Construction of approximately 5,000 l.f. of 6" and 8" sewer line and 31 manholes to serve 21 new customers in the Marrtown area. | WOOD | 2019S-1841 | 1,308,000.00 | 1,308,000.00 |
| PARKERSBURG UTILITY BOARD | Project would extend sewer service to Marrtown Road and Starr Avenue in the Marrtown neighborhood. | WOOD | 2019S-1842 | 3,000,000.00 | 3,000,000.00 |

Total**553,100,347.87****193,886,770.00**

Appendix E

Infrastructure Funding Program Contacts in West Virginia

WV Bureau for Public Health (WVBPH)

Programs: Drinking Water Treatment Revolving Fund (DWTRF)
Contact: Stephanie Hickerson, P. E., Manager, Infrastructure & Capacity Development, 304-356-4292

WV Development Office (WVDO)

Programs: Appalachian Regional Commission Grant (ARC)
Contact: James Bush, Infrastructure Unit Manager, 304-558-2234

Programs: Community Development Block Grant (CDBG)
Contact: Sherry Risk, CDBG Program Manager, 304-957-2068

WV Department of Environmental Protection (WVDEP)

Programs: Clean Water State Revolving Fund (CWSRF)
Contact: Kathy Emery, P. E., Acting Director, DWWM, 304-414-3830

Programs: Abandoned Mine Lands & Reclamation (AML)
Contact: Roger Earle, P. E., Waterline Coordinator, 304-414-1183

WV Infrastructure and Jobs Development Council (WVIJDC)

Contact: Wayne Morgan, P. E., MBA, Executive Director, 304-414-6501

WV Water Development Authority (WVWDA)

Contact: Marie Prezioso, Executive Director, 304-414-6500

U. S. Army Corps of Engineers (USACE)

Programs: COE 571 and COE 340
Contact: Lesli Stone Smith, Project Manager, 304-399-5964

U. S. Economic Development Administration (USEDA)

Contact: Tracey Rowan, EDA Regional Director, 304-533-4497

U. S. Department of Agriculture (USDA)

Contact: Janna Lowery, Community Programs Director, 304-284-4886

Appendix E

Infrastructure Funding Programs Closing Totals by Fiscal Year

| Program | 2018 | 2019 | 2020 | First Half 2021 |
|--|----------------------|----------------------|----------------------|---------------------|
| IJDC Loan | \$26,703,945 | \$8,526,126 | \$8,766,408 | \$11,752,541 |
| IJDC Grant | \$9,202,292 | \$4,571,860 | \$10,960,130 | \$6,969,997 |
| IJDC Preliminary Application Funding Assistance | \$11,500 | \$311,850 | \$126,739 | \$123,350 |
| IJDC Economic Development Loan | \$0 | \$5,133,000 | \$5,774,000 | \$2,217,128 |
| IJDC Economic Development Grant | \$5,938,150 | \$0 | \$13,662,500 | \$2,000,000 |
| WDA Loan ₁ | \$0 | \$130,000 | \$9,964,076 | \$1,310,000 |
| WDA GAN ₁ | \$564,578 | \$1,448,532 | \$500,000 | \$23,350 |
| WDA BAN ₁ | \$0 | \$480,000 | \$0 | \$0 |
| CWSRF Loan | \$39,569,265 | \$33,793,616 | \$59,184,140 | \$25,513,776 |
| CWSRF Debt Forgiveness | \$3,343,650 | \$5,441,169 | \$12,624,446 | \$1,000,000 |
| DWTRF Loan | \$14,381,449 | \$1,338,252 | \$1,433,100 | \$4,992,050 |
| DWTRF Debt Forgiveness | \$2,997,000 | \$0 | \$1,155,000 | \$1,996,000 |
| DWTRF Design Assistance | \$300,000 | \$696,189 | \$931,950 | \$751,950 |
| Abandoned Mines Lands and Reclamation (AML) Waterline Program | \$6,061,000 | \$3,837,000 | \$2,245,000 | - |
| Abandoned Mines Lands and Reclamation (AML) Pilot Program ₂ | \$1,441,000 | \$764,000 | \$301,000 | - |
| Appalachian Regional Commission (ARC) ₃ | \$3,595,000 | \$11,189,956 | \$1,850,000 | - |
| Community Development Block Grant (CBDG) _{3,4} | \$11,032,308 | \$10,674,044 | \$10,458,426 | - |
| USACE Section 340 (Reimbursable Program) | \$2,000,000 | \$1,100,000 | \$1,100,000 | |
| USACE Section 531 (Reimbursable Program) | \$2,000,000 | \$1,100,000 | \$1,100,000 | |
| USDA Rural Utility Services (RUS) Loan | \$29,144,000 | \$55,489,000 | \$33,757,000 | - |
| USDA Rural Utility Services (RUS) Grant | \$15,962,000 | \$20,779,000 | \$15,909,000 | - |
| TOTAL | \$173,684,577 | \$164,747,081 | \$181,340,858 | \$57,316,792 |

1) Interim financing and not included in total

2) The AML Pilot program can fund water and sewer projects and is not guaranteed to continue after this year. Remaining funds for the AML Pilot Program, which includes funding anticipated to be spent to finish the AML Pilot projects currently approved is \$28,532,000.

3) A portion of the allocations for both the ARC and CBDG programs will be used for non-infrastructure projects.

4) CBDG is currently in fiscal year 2020. Totals shown are 2017-2019 which are analogous to fiscal years 2018-2020.