

**PENNSYLVANIA INFRASTRUCTURE INVESTMENT AUTHORITY AND DEPARTMENT OF ENVIRONMENTAL PROTECTION
FEDERAL FY 2018
DRINKING WATER PROJECT PRIORITY LIST
APRIL 18, 2018**

EXPLANATION OF HEADINGS (EXCEPT THOSE THAT ARE SELF-EXPLANATORY)

PROJECT TYPE:

- SRC - SOURCE
- TRANS - TRANSMISSION SYSTEM
- PS - PUMP STATION
- WS - WATER STORAGE
- DS - DISTRIBUTION SYTEM
- METERS- WATER METERS
- LDE - LEAK DETECTION SYSTEM

PWSID - PUBLIC WATER SYSTEM ID NUMBER

LEGEND FOR PROJECT TYPE:

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APPLICANT NAME: FALLS CREEK / DUBOIS WATER INTERCONN	REGION: VI	DEP PROJECT RATING: 88
STREET ADDRESS: P.O. BOX 65, MAIN STREET EXT.	PWSID: 6370032	PROJRANK: 1
CITY: WAMPUM	FUND SOURCE: DWSRF	PROJECT COST: \$2,000,000
COUNTY: CLEARFIELD	MTGDATE: 10/18/2017	PROJECT TYPE: SRC, DS

PROJ. DESCRIPTION: The project includes the installation of 12,600 linear feet of 8-inch diameter PVC C-900 waterline from the Falls Creek distribution system to the DuBois distribution system (near the DuBois water storage tank). The interconnection will contain a control meter vault and a PRV vault. This interconnection will act as the sole source of drinking water for both the residents of Falls Creek Borough and the surrounding areas currently served by Falls Creek.

PROB. DESCRIPTION: The Falls Creek system is in a Consent Order and Agreement with the Department to address a long term solution to the water supply in order to attain and thereafter maintain compliance with the Safe Drinking Water Act and its regulations; Falls Creek's reservoir is the sole available source of supply and is vulnerable to spills and drought conditions, consistently noncompliant with Disinfectants/Disinfection Byproducts levels over the past several years and exceeds its current water allocation. This project will improve the reliability of compliant source water to the service area.

POPULATION: 1,440	PV RATING: 111
GREEN PROJECT: Yes	GREEN CATEGORY: Energy Efficiency
BUSINESS CASE: Required	GREEN AMOUNT: \$1,930,000

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APPLICANT NAME: SOUTHWESTERN PENNSYLVANIA WA - DUNKA **REGION:** V **DEP PROJECT RATING:** 77
STREET ADDRESS: GREENE AND WASHINGTON STREETS **PWSID:** 5300017 **PROJRANK:** 2
CITY: JEFFERSON **FUND SOURCE:** STATE BYPASS **PROJECT COST:** \$15,722,000
COUNTY: GREENE **MTGDATE:** 4/18/2018 **PROJECT TYPE:** WS, DS

PROJ. DESCRIPTION: Southwestern PA Water Authority will be taking over Dunkard Valley Joint Municipal Authority's water system. The project will include a new water storage tank with mixing and approximately 113,000 feet of waterline and appurtenances.

PROB. DESCRIPTION: Over the years The Dunkard Valley Joint Municipal Authority has received multiple notices of violations consisting of multiple water outages due to water line breaks, chemical overfeeds at the water treatment plant, the inability to meet chlorine contact time, turbidity standards, and TOC removal standards. Authority had to issued boil water notices, have also received NOV's for not submitting required monitoring and reporting documentations. Southwestern PA Water Authority will take over old system and will serve service area with uninterrupted potable water.

POPULATION: 27,900 **PV RATING:** 112
GREEN PROJECT: No **GREEN CATEGORY:** N/A
BUSINESS CASE: N/A **GREEN AMOUNT:** \$0

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APPLICANT NAME: SPRINGDALE BOROUGH - WATER SYSTEM IMP	REGION: V	DEP PROJECT RATING: 74
STREET ADDRESS: 325 SCHOOL STREET	PWSID: 5020053	PROJRANK: 3
CITY: SPRINGDALE	FUND SOURCE: DWSRF	PROJECT COST: \$5,499,200
COUNTY: ALLEGHENY	MTGDATE: 1/31/2018	PROJECT TYPE: TREAT, DS

PROJ. DESCRIPTION: The Borough's planned improvements at the water treatment plant include the replacement of the horizontal greensand filters, the installation of new well pumps with variable frequency drives (VFDs), new raw water line, new high service pumps with VFDs, the addition of a cover over the existing clearwell, installation of electric actuators on the softener valves, new motors and VFDs for the air stripping tower pumps, new chemical pumps, a new caustic soda tank and mixer, new SCADA system and the construction of backwash settling basins so that the settled filter backwash water can be discharged to the Allegheny River. Water lines will also be replaced.

PROB. DESCRIPTION: The pressure filters at the water treatment plant are severely deteriorated, resulting in occasional exceedances in the limit for manganese in the drinking water. Equipment at the treatment plant has reached the end of their useful life (well pumps, high service pumps, raw water line, and chemical feed). The finished water clearwell inside the plant is uncovered allowing for the potential introduction of contaminants. Customers in the area of the distribution system that have unlined cast iron pipes have complained of dirty water. Springdale Borough is under a Consent Order & Agreement to correct the problems. Project will help system achieve regulatory compliance and will supply potable water to the service area.

POPULATION: 4,020	PV RATING: 89
GREEN PROJECT: No	GREEN CATEGORY: N/A
BUSINESS CASE: N/A	GREEN AMOUNT: \$0

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APPLICANT NAME: INDIANA COUNTY MSA - WR19 CAPITAL IMPRO **REGION:** V **DEP PROJECT RATING:** 64
STREET ADDRESS: 827 WATER STREET **PWSID:** 5320042 **PROJRANK:** 4
CITY: INDIANA **FUND SOURCE:** DWSRF **PROJECT COST:** \$9,959,000
COUNTY: INDIANA **MTGDATE:** 7/19/2017 **PROJECT TYPE:** WS, DS, PS

PROJ. DESCRIPTION: This project includes work in five (5) different water supply systems and is being done to ensure compliance with the Safe Drinking Water Act and Operating Permit requirements. Upgrades to the systems will include painting and installing PAX mixing systems in existing finished water storage tanks, replacing finished water storage tanks and installing PAX mixing systems, replacing old pumps with new pumps in existing pump stations, replacing old pump stations with new pump stations, adding and replacing PRV vaults. replacing and installing approximately 24,000-feet of waterlines.

PROB. DESCRIPTION: The Authority is experiencing many compliance issues due to the multiple Pump Stations and Finished Water Storage Tanks that need being replaced or rehabbed. The proposed project is about replacing pump stations that have outlived their life expectancy, painting tanks that are over 35 years old, constructing two (2) small tanks and upgrading line size to be able to move water with greater flows. There are currently four (4) Notice of Violations (NOVs) for these different systems. This project will improve water quality and quantity in the system and will address existing violations.

POPULATION: 1,040 **PV RATING:** 83
GREEN PROJECT: Yes **GREEN CATEGORY:** Water Efficiency
BUSINESS CASE: Not Required **GREEN AMOUNT:** \$35,000

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APPLICANT NAME: CORRY CITY M.A. PHASE 1 WATER SYSTEM IM	REGION: VI	DEP PROJECT RATING: 60
STREET ADDRESS: 100 SOUTH CENTER STREET	PWSID: 6250012	PROJRANK: 5
CITY: CORRY	FUND SOURCE: DWSRF	PROJECT COST: \$11,200,000
COUNTY: ERIE	MTGDATE: 7/19/2017	PROJECT TYPE: SRC, DS, WS, METE

PROJ. DESCRIPTION: Project including water supply improvements consisting of demolishing and reconstruct five well houses to meet standard building codes (using the same existing foot print), two new well pumps, replacement of well piping, mag meters for each well, install two variable frequency drives to allow the well flow rates to be adjusted to maximize power and capacity efficiencies, provide automated well control system to improve operating efficiency, install two generators to provide standby power, and system wide meter replacement program with radio read capability and security system. Replacement of approximately 28,500 lineal feet of waterlines with 6-inch water mains including new service lines, curb stops and loop all dead-end areas. About 24 inoperable fire hydrants will be replaced with new hydrants & shutoff valves. A leak detection equipment with data logger will be furnished to locate leaks for repair.

PROB. DESCRIPTION: The PWS system was originally built in 1800, consists of 7 wells, gas chlorination, 4-log through underground piping, a finished water storage reservoir and a distribution system. The application is for Phase 1 Water System Improvements which will benefit the entire service area including the City of Corry and portions of Wayne Township, Columbus Township, and Concord Township. The identified system wide problems are as follows; five well houses are in poor inhabitation condition (structure, ventilation, electrical), there is no means to measure well water level and flow rate, some well's interior discharge piping, valves are corroded, there is no means to control well's flow rate, the well controls are not automated, some of the wells are not provided with standby power. October 2016 Water Leakage Crisis; the city's three public schools, restaurants, many Corry-area businesses and nearly 3,200 water customers in Corry, Columbus Township and Wayne Township lost service because of three major leaks in a section of water line along Route 6 near the intersection with Wayne Street. Boil Water advisory was issued by the Department along with conservation measurements. Corry Memorial Hospital and Corry Manor have remained open throughout the water crisis, but they were using bottled water, and plastic plates and utensils. The hospital did postpone elective surgeries, bagged their drinking fountains and had their employees bring in their own lunches. Corry system returned to normal, five days after three water main breaks drained the city's only reservoir. The water leaked downward instead of upward, where it would have been more visible and it took longer time for the leak to uncover itself.

POPULATION: 7,800	PV RATING: 75
GREEN PROJECT: Yes	GREEN CATEGORY: Water & Energy Efficie
BUSINESS CASE: Required	GREEN AMOUNT: \$1,625,000

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APPLICANT NAME: UPPER TIOGA RIVER REGIONAL AUTH. WATER	REGION: IV	DEP PROJECT RATING: 55
STREET ADDRESS: 245 MAIN STREET	PWSID: 2590003	PROJRANK: 6
CITY: BLOSSBURG	FUND SOURCE: DWSRF	PROJECT COST: \$8,919,000
COUNTY: TIOGA	MTGDATE: 7/19/2017	PROJECT TYPE: WS, DS

PROJ. DESCRIPTION: The project entails constructing a new regional community water system for Upper Tioga River Regional Authority (UTRRA) that includes approximately 55,000 feet of new water main (6 in – 12 in ductile iron pipe) between Blossburg and Mansfield going through three townships: Covington, Putnam and Richmond. A 400,000-gallon prestressed concrete tank will be constructed at the same elevation as Mansfield University for future potential interconnection with the university. There will also be a hypochlorite booster station at the storage tank to boost chlorine residual into the tank. UTRRA will obtain all their finished water from Blossburg through an interconnect. The interconnecting vault will include a pressure reducing valve assembly to lower the energy grade line since UTRRA's storage tank is at lower elevation than Blossburg's tank. There will be 20 stream crossings, with two being the Tioga River. The subsidiary allocation permit was issued to UTRRA for 70,050 gallons per day.

PROB. DESCRIPTION: The old Rt. 15 corridor between Blossburg and Mansfield contains about 300 private wells, five transient noncommunity water systems, two non-transient noncommunity water systems and one community water system (MHP). 80 of the residential wells were sampled (over 25% sample set) for nitrate, arsenic, barium, coliform and e-coli. 59% of the wells sampled are in violation of at least one primary maximum contamination level (MCL); 43% for total coliform and 8% for e-coli. A number of the existing public water systems that will be consolidated by this project have had compliance issues, including exceedances of primary MCLs. Treatment systems have been installed on many of the systems to address methane and inorganic contaminants. Additional problems to be addressed by this project include the elimination of water shortages that hindered economic development within this growth corridor. Future problems to be addressed include alleviating water shortage issues with Mansfield Borough since the new water system will easily be able to interconnect with the adjacent Mansfield system.

POPULATION: 0	PV RATING: 76
GREEN PROJECT: Yes	GREEN CATEGORY: Energy Efficiency
BUSINESS CASE: Not Required	GREEN AMOUNT: \$8,919,000

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APPLICANT NAME: BEDFORD TOWNSHIP M.A. AREA IV WATER LIN **REGION:** III **DEP PROJECT RATING:** 50
STREET ADDRESS: P.O. Box 371 **PWSID:** 4050037 **PROJRANK:** 7
CITY: BEDFORD **FUND SOURCE:** DWSRF **PROJECT COST:** \$3,685,000
COUNTY: BEDFORD **MTGDATE:** 7/19/2017 **PROJECT TYPE:** WS, DS

PROJ. DESCRIPTION: The proposed project will include constructing a new 522,000-gallon storage tank and new water mains to serve the proposed Camp Sunshine service area which contains 90 residential connections. The tank will provide adequate volume for fire protection and will allow the Authority to maintain service to customers receiving water from the existing Hoover Storage Tank while it is taken out of service for routine maintenance.

PROB. DESCRIPTION: Each of the 90 connections are currently served by their own private well. 33 of the 90 wells were tested and 58% returned results indicating presence of total coliforms in the water. Of those 58%, 24% tested positive for E. coli contamination. Primary sources of contamination are thought to be improper well construction coupled with failing wastewater disposal systems and frequent flooding in the area. The project will ensure that a safe, potable, and reliable supply of water is available to customers, existing and potential, in the proposed area of service.

POPULATION: 1,125 **PV RATING:** 55
GREEN PROJECT: Yes **GREEN CATEGORY:** Water Efficiency
BUSINESS CASE: Not Required **GREEN AMOUNT:** \$520,000

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APPLICANT NAME: WARMINSTER TOWNSHIP M. A. - WELL PFOS/P	REGION: I	DEP PROJECT RATING: 48
STREET ADDRESS: P O BOX 2279	PWSID: 1090069	PROJRANK: 8
CITY: WARMINSTER	FUND SOURCE: DWSRF	PROJECT COST: \$18,436,315
COUNTY: BUCKS	MTGDATE: 10/18/2017	PROJECT TYPE: TREAT

PROJ. DESCRIPTION: The proposed project includes the construction of 12 treatment units for 13 of the 17 wells. (Treatment has been added to the other 4 wells as part of separate projects.) 2 of the 13 wells have PFC levels above the HA of 70 PPT, the other 11 wells have PFC levels below the HA of 70 PPT; the proposed treatment involves adding Granular Activated Carbon filtration in order to treat the water to levels of "No Detect" for PFC's.

PROB. DESCRIPTION: Warminster Municipal Authority (WMA) serves approximately 35,000 customers in three Bucks County municipalities. Perfluorinated compounds (PFC's) have been detected in all of 17 of WMA's public water supply wells. There is currently no MCL for these contaminants but in May of 2016 the EPA issued a lifetime Health Advisory (HA) of 70 parts per trillion (PPT). WMA wishes to serve water with PFC levels of "No Detect", and as a result of the PFC contamination has taken all of their wells offline and is purchasing water from another public water system. WMA intends to all treatment for PFC's to all of their wells prior to placing them back into service. Project will supply PFC contaminant free water to the service area.

POPULATION: 40,000	PV RATING: 63
GREEN PROJECT: No	GREEN CATEGORY: N/A
BUSINESS CASE: N/A	GREEN AMOUNT: \$0

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APPLICANT NAME: BCI WATER SOURCE DEVELOPMENT PROJECT	REGION: IV	DEP PROJECT RATING: 42
STREET ADDRESS: P O BOX 868	PWSID: 6170052	PROJRANK: 9
CITY: CLEARFIELD	FUND SOURCE: STATE BYPASS	PROJECT COST: \$1,610,200
COUNTY: CLEARFIELD	MTGDATE: 4/18/2018	PROJECT TYPE: SRC, PS,TREAT, ME

PROJ. DESCRIPTION: Project includes installation of approximately 4,000 lineal feet of 4" HDPE raw water transmission main along with the development of Well No. 1 and Well No. 2 with a combined withdrawal limit of 100,000 gallons per day at 69 gallons per minute. Upgrades to existing pump station, installation of a telemetry system and constructing a chemical feed building (for sequestrant and disinfection). Project also includes supply of water system radio read metering and leak detection equipment.

PROB. DESCRIPTION: The project intends to provide an additional source of water to supplement the overall system demand of the Authority's existing system by developing two existing test wells, upgrading an existing pump station. Development of the wells is primarily to have an additional source to replace utilizing the Reade Township interconnect. During dry periods, the existing spring sources are insufficient to keep up with overall system demand.

POPULATION: 1,485

PV RATING: 61

GREEN PROJECT: Yes

GREEN CATEGORY: Water Efficiency

BUSINESS CASE: Not Required

GREEN AMOUNT: \$136,410

APPLICANT NAME: SCHWENKSVILLE BOROUGH- MAIN ST. AND CH	REGION: I	DEP PROJECT RATING: 40
STREET ADDRESS: PO BOX 458 MAIN & CHURCH STS	PWSID: 1460042	PROJRANK: 10
CITY: SCHWENKSVILLE	FUND SOURCE: DWSRF	PROJECT COST: \$1,051,037
COUNTY: MONTGOMERY	MTGDATE: 1/31/2018	PROJECT TYPE: DS

PROJ. DESCRIPTION: This project involves: replacement of approximately 2,725 linear feet of water main in Schwenksville Borough with 8" DIP; replacement and extension of 1,054 linear feet of water main in Lower Frederick Twp.; 5 new hydrants and 54 service connections.

PROB. DESCRIPTION: The Schwenksville Borough Authority serves approximately 5,200 customers in two Montgomery County municipalities. Portions of the existing water main are over 70 years old and require replacement. System has total 27% unaccounted water loss. Project will help reduce unaccounted for water loss, and serve area with uninterrupted potable water.

POPULATION: 4,000

PV RATING: 55

GREEN PROJECT: No

GREEN CATEGORY: N/A

BUSINESS CASE: N/A

GREEN AMOUNT: \$0

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