

**PENNSYLVANIA INFRASTRUCTURE INVESTMENT AUTHORITY AND DEPARTMENT OF ENVIRONMENTAL PROTECTION
RECOVERY 2009**

DRINKING WATER PROJECT PRIORITY LIST

MARCH 14, 2009

APPLICANT NAME: HAWTHORN REDBANK MA- WATER SYSTEM I	REGION: MEADVILLE	PROJECT RATING: 72
STREET ADDRESS: BOX 241	PWSID: 6160026	PROJRANK: 1
CITY: HAWTHORN, PA 16230	FUND SOURCE: APPLICATION PENDING	PROJECT COST: \$2,458,205
COUNTY: CLARION	MTGDATE:	PROJECT TYPE: STO, TRAN, STO, DS, PS

PROJ. DESCRIPTION Three phase project includes: Phase I: Construction of a 200,000 gallon water storage tank and a transmission main. Phase II: Interconnection with RVMA. This includes the installation of 4,000 LF of 8-inch water main, a dual meter pit, a pump station consists of two 15 HP turbine pumps with a design flow of 110 gpm, and a pressure reducing pit. Phase III: Construction of approximately 15,000 L.F. of 8-inch waterline in the Village of Oakridge, Redbank Twp - Armstrong County

PROB. DESCRIPTION The new transmission line and tank will allow HAWA to meet the required 3-log inactivation of Giardia cysts and protect the public health of its customers. 2- The new tank will reduce the formation of Disinfection-by-Product and allow HAWA to reduce high levels of TTHM and HAAS5. 3- The interconnection with RVMA will allow for a secondary reliable source of supply to both HAWA and Oakridge customers. 4- The extension of the waterline to serve Oakridge will eliminate an area-wide use of poor water quality and quantities. Water test analysis conducted on 37 samples indicates that 57% of the samples have high Total Coliform, 8% have Fecal Coliform, 62% high iron. Also, water outages for over one week are documented from the survey. The waterline extension will eliminate a problem that poses a chronic health hazard to the customers of the Oakridge Village.

POPULATION: 1223

APPLICANT NAME: PA AMERICAN WATER COMPANY- METERING	REGION: PITTSBURGH	PROJECT RATING: 70
STREET ADDRESS: 410 COOKE LANE	PWSID: 5020039	PROJRANK: 2
CITY: PITTSBURGH, PA 15234	FUND SOURCE: APPLICATION PENDING	PROJECT COST: \$2,125,000
COUNTY: ALLEGHENY	MTGDATE:	PROJECT TYPE: DS,METERS

PROJ. DESCRIPTION The project includes the construction of seven metering and/or pressure reducing vaults in the Pittsburgh District. The project also includes the installation of approximately 3,500 linear feet of 8-inch ductile iron pipeline, sliplining of 1,500 linear feet of 24-inch existing water main and connections to the existing distribution system.

PROB. DESCRIPTION To reduce the occurrence of water main breaks and leaks and provide for their early identification through metering zones so that extended customer service interruptions and related damages associated with water main breaks will be minimized. This project has been ordered by the Pennsylvania Public Utility Commission and will enable the Water Company to reduce the occurrence and permit faster identification of main breaks and leaks, thus reducing the potential for extended service outages. Pittsburgh District serves estimated population of 45,000.

POPULATION: 582797

LEGEND FOR PROJECT TYPE

SRC = SOURCE TRANS = TRANSMISSION SYSTE TREAT=TREATMENT WS = WATER STORAG DS = DISTRIBUTION SYSTEM

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RECOVERY 2009**

DRINKING WATER PROJECT PRIORITY LIST

MARCH 14, 2009

APPLICANT NAME: AQUA PA - HONESDALE WATER SYSTEM IMP	REGION: WILKES-BARRE	PROJECT RATING: 66
STREET ADDRESS: 762 LANCASTER AVE	PWSID: 2640028	PROJRANK: 3
CITY: BRYN MAWR, PA 19010-3402	FUND SOURCE: APPLICATION PENDING	PROJECT COST: \$1,419,525
COUNTY: WAYNE	MTGDATE:	PROJECT TYPE: TREAT, DS

PROJ. DESCRIPTION Quarry Well is 0.25 MGD source of supply, which is proposed for arsenic treatment. 5,600 feet of mains are proposed for replacement. This work will reduce arsenic levels in the finished water to below MCL levels, and will resolve water quality, pressure and flow problems in the distribution system by replacing aged, break-prone, undersized and tuberculated water mains.

PROB. DESCRIPTION Quarry well arsenic concentration exceeds the MCL, for which treatment is proposed. The main replacements are proposed to replace mains installed between 1880 and 1939, that are undersized, break-prone, and contributory to low pressure and low flow problems. Insufficient fire flow exists in the northern part of the Borough, which this project will solve

POPULATION: 1408851

APPLICANT NAME: LIVERPOOL MUNICIPAL AUTHORITY WATER S	REGION: HARRISBURG	PROJECT RATING: 66
STREET ADDRESS: P O BOX 241	PWSID: 7500014	PROJRANK: 4
CITY: LIVERPOOL, PA 17045	FUND SOURCE: APPLICATION PENDING	PROJECT COST: \$969,823
COUNTY: PERRY	MTGDATE:	PROJECT TYPE: SRC, TREAT

PROJ. DESCRIPTION The project involves the development of a reliable new source that would meet the daily average demand. Well #5 was drilled and developed to produce a long-term yield of 65 gpm (93,600 gpd). New Source Sampling (NSS) revealed an arsenic concentration of 7.3 ug/l, less than the primary maximum contaminant level of 10/ug/l. The Liverpool Municipal Authority decided to proceed with the new well and to treat it for arsenic. System serves about 900 people.

PROB. DESCRIPTION The Liverpool Municipal Authority uses Well #2 and Well #4 that are permitted for 90,000 gpd and 64,800 gpd respectively, as the main sources. The average demand for the system is 67,000 gpd. Well #4 has an average arsenic concentration of 13 ug/l that violates the arsenic maximum contaminant level of 10 ug/l, and is unable to meet daily average demand with Well #2 out of service. The project will eliminate the violation of the primary arsenic MCL and ensure compliance with the primary arsenic MCL. The project will increase available water and improve aesthetic water quality and will improve the quality of life for consumers.

POPULATION: 775

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RECOVERY 2009**

DRINKING WATER PROJECT PRIORITY LIST

MARCH 14, 2009

APPLICANT NAME:	COOPER TOWNSHIP MA - 2009 WATER STOR	REGION:	WILLIAMSPORT	PROJECT RATING:	65
STREET ADDRESS:	P.O.BOX 466	PWSID:	6170041	PROJRANK:	5
CITY:	WINBURNE, PA 16879	FUND SOURCE:	APPLICATION PENDING	PROJECT COST:	\$2,208,000
COUNTY:	CLEARFIELD	MTGDATE:		PROJECT TYPE:	DS, WS

PROJ. DESCRIPTION The project includes replacement of 90% of the Grassflats distribution system. Fire hydrants will be added. Two storage tanks will be replaced and one will be added to increase storage capacity for the entire system.

PROB. DESCRIPTION Grassflat area has frequent loss of water service. The existing tanks have severe corrosion damage. Currently the authority uses an average of 290,000 gallons of water a day, therefore the Authority has just over one days storage. The project will eliminate frequent water outage in the area and will provide sufficient water storage for the service area.

POPULATION: 3446

APPLICANT NAME:	MILFORD BORO MA - OLD WATER MAIN REPL	REGION:	WILKES-BARRE	PROJECT RATING:	63
STREET ADDRESS:	P.O. BOX 459	PWSID:	2520046	PROJRANK:	6
CITY:	MILFORD, PA 18337	FUND SOURCE:	APPLICATION PENDING	PROJECT COST:	\$234,994
COUNTY:	PIKE	MTGDATE:		PROJECT TYPE:	DS

PROJ. DESCRIPTION Project includes replacement of approximately 3,700 feet of old antiquated leaking, undersized water mains that counts for high water loss. Replace 7 old fire hydrants to the newer Waterous design along with replacement of 39 nozzles on other fire hydrants

PROB. DESCRIPTION System has old, tuberculated lines built in 1920s, numerous breaks, outages 10% of population for 12-72 hours insufficient fire flows rusty water complaints water losses of 28% and more. Replacement and proper sizing should enhance pressure and flow through the service area and unaccounted water loss will be reduced.

POPULATION: 469

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RECOVERY 2009**

DRINKING WATER PROJECT PRIORITY LIST

MARCH 14, 2009

APPLICANT NAME: SOUTH WAYNE CTY WSA - WATER IMPROVE	REGION: WILKES-BARRE	PROJECT RATING: 63
STREET ADDRESS: P O BOX 6	PWSID: 2640025	PROJRANK: 7
CITY: LAKE ARIEL, PA 18436	FUND SOURCE: APPLICATION PENDING	PROJECT COST: \$1,152,500
COUNTY: WAYNE	MTGDATE:	PROJECT TYPE: DS

PROJ. DESCRIPTION The project will include replacement of 3850 LF (1100 LF of which is line within the spillway) of old water line with new 8" ductile iron water mains, including service lines and valves. Additional valves will be added in the system to help isolate areas when repairs or other construction is required.

PROB. DESCRIPTION Deteriorated distribution system with frequent breaks and an estimated unaccounted-for water loss at 52% per Planning Consultation meeting. Inoperable valves prevent effective isolation of areas where breaks occur. Replacement of deteriorated mains/valves will assure more efficient operation of the system by reducing outages caused by breaks and allowing for more efficient isolation of such areas, will reduce unaccounted-for water and will assure safe potable water is continuously provided.

POPULATION: 7970

APPLICANT NAME: AQUA PA - WASHINGTON PARK WATER SYST	REGION: WILKES-BARRE	PROJECT RATING: 60
STREET ADDRESS: 1199 LAUREL RUN ROAD	PWSID: 2660016	PROJRANK: 8
CITY: WILKES-BARRE, PA 18702	FUND SOURCE: APPLICATION PENDING	PROJECT COST: \$824,000
COUNTY: WYOMING	MTGDATE:	PROJECT TYPE: TREAT, SRC

PROJ. DESCRIPTION Aqua Pennsylvania proposes to install customer water meters, and redevelop existing wells, install production wellmeters, construct two new water treatment stations, replace a hydro-pneumatic water storage tank, and construct a ground level Water Storage Tank and Booster Pump Station. This project is intended to resolve water source shortages, inadequate water treatment, and insufficient water storage capacity at the Washington Park System. Metering will allow Aqua to evaluate unaccounted for water and determine if corrective measures are needed, and will provide for consumption based billing of customers.

PROB. DESCRIPTION Project will provide consistent potable water supply by upgrading existing old plant. Project will Construct 1-day storage & rehabilitate wells with booster pump station to provide an adequate supply for the community. Construct disinfection facilities to treat the raw water. Install residential meters, security fencing and backup power to assure operation during emergency situations.

POPULATION: 414368

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RECOVERY 2009**

DRINKING WATER PROJECT PRIORITY LIST

MARCH 14, 2009

APPLICANT NAME: PA AMERICAN WATER CO - MOUNT PLEASAN	REGION: MEADVILLE	PROJECT RATING: 60
STREET ADDRESS: 300 GALLEY ROAD, P.O. 1290	PWSID: 5630037	PROJRANK: 9
CITY: MCMURRAY, PA 15317	FUND SOURCE: APPLICATION PENDING	PROJECT COST: \$12,150,000
COUNTY: WASHINGTON	MTGDATE:	PROJECT TYPE: STO, DS

PROJ. DESCRIPTION The project includes the installation of approximately 150,000 linear feet of 12" and 8" ductile iron water main and a 350,000-gallon water storage tank to provide service to approximately 645 potential customers in Mount Pleasant Township, Washington County.

PROB. DESCRIPTION Contaminated wells- 131 homes sampled from a total potential 645 customers. Of the 131 homes sampled 71 homes tested positive for total coliform or 54% ; of the total coliform samples 65 homes tested positive for fecal coliform or 50% of the representative samples.PUC Order to run water lines to these customers. No fire flow available now. Project will serve area with good quality and quantity consistant water and will provide fire protection.

POPULATION: 1373

APPLICANT NAME: MONTGOMERY WSA - WELL #2 TREATMENT S	REGION: WILLIAMSPORT	PROJECT RATING: 56
STREET ADDRESS: 24 MONTGOMERY ST.	PWSID: 4410161	PROJRANK: 10
CITY: MONTGOMERY, PA 17752	FUND SOURCE: APPLICATION PENDING	PROJECT COST: \$1,100,000
COUNTY: LYCOMING	MTGDATE:	PROJECT TYPE: SRC, TREAT

PROJ. DESCRIPTION The proposed project would replace the source water capacity lost when Well No.2 was abandoned in 2006. The project would include the development of a new source well and nitrate treatment system. Nitrate levels in the new water source currently exceed the Maximum Contaminant Level (MCL) for nitrate. The high nitrate levels were the reason Well No. 2 was abandoned in 2006.

PROB. DESCRIPTION Maximum daily water demands in recent years have exceeded 360,000 gpd, well above the safe yield for Well No.1. In the event of well failure, vandalism, terrorism, a contamination event, significant well maintenance, or the addition of a significant industrial user, the Authority would not be able to meet the demand for drinking water.

POPULATION: 2700

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RECOVERY 2009**

DRINKING WATER PROJECT PRIORITY LIST

MARCH 14, 2009

APPLICANT NAME: RICHLANDTOWN BOROUGH ARSENIC TREAT	REGION: NORRISTOWN	PROJECT RATING: 56
STREET ADDRESS: 125 SOUTH MAIN STREET	PWSID: 1090057	PROJRANK: 11
CITY: RICHLANDTOWN, PA 18955	FUND SOURCE: APPLICATION PENDING	PROJECT COST: \$884,324
COUNTY: BUCKS	MTGDATE:	PROJECT TYPE: TREAT

PROJ. DESCRIPTION Borough has two wells which are each contaminated by naturally occurring arsenic. The project includes arsenic removal treatment, existing water has arsenic levels as high as 34 micrograms/liter (limit is 10 micrograms/liter)

PROB. DESCRIPTION The project provides the necessary treatment to bring the Borough's wells into compliance with the new standard for arsenic. The treatment will serve safe potable water to the customers.

POPULATION: 1283

APPLICANT NAME: BUFFALO TWP MA - WATER TREATMENT PLA	REGION: MEADVILLE	PROJECT RATING: 55
STREET ADDRESS: DRAWER B	PWSID: 5100097	PROJRANK: 12
CITY: SARVER, PA 16055	FUND SOURCE: APPLICATION PENDING	PROJECT COST: \$7,200,000
COUNTY: ARMSTRONG	MTGDATE:	PROJECT TYPE: TREAT, DS

PROJ. DESCRIPTION The proposed project consist of construction of a new membrane filtration plant to replace the existing 90+ year old water treatment plant and installation of approximately 18,000 feet of water line.

PROB. DESCRIPTION The existing water treatment plant was constructed in 1919 and it is need of major repairs and upgrades. During the November 27-28, 2007, the Department preformed a Filter Plant Performance Evaluation. The Department found many physical deficiencies at this facility. These performance-limiting factors could affect the reliability of the plant to produce high-quality water at any time. Based on these physical deficiencies, the Department assigned the Freeport plant with an overall "needs improvement" performance rating for its ability to remove Giardia cysts and Cryptosporidium oocysts. The proposed project will provide the customers with safe and reliable drinking water and will solve the operating pressure issues and reduce high unaccounted water losses.

POPULATION: 8789

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RECOVERY 2009**

DRINKING WATER PROJECT PRIORITY LIST

MARCH 14, 2009

APPLICANT NAME: SOUTHWESTERN PA WA - NEMACOLIN WATE	REGION: PITTSBURGH	PROJECT RATING: 55
STREET ADDRESS: GREENE AND WASHINGTON STREETS	PWSID: 5300017	PROJRANK: 13
CITY: JEFFERSON, PA 15344	FUND SOURCE: APPLICATION PENDING	PROJECT COST: \$2,521,900
COUNTY: GREENE	MTGDATE:	PROJECT TYPE: WS, DS

PROJ. DESCRIPTION The project consists of the installation of approximately 6,700 linear feet of 12" water line, 8,900 linear feet of 8" water line, 1,700 linear feet of 6" water line, 250 service connections, a 500,000-gallon prestressed concrete water storage tank, and associated fire hydrants, connections and restoration

PROB. DESCRIPTION The water system in Nemacolin is constructed of old, unlined cast iron pipe. The system was constructed around 1900 and is undersized and badly deteriorated and is incapable of providing adequate service and fire protection. Fire flow tests have indicated the system cannot meet the minimum flows necessary to fight a fire. When pipelines leak or break, service is interrupted to large areas of the village (half the town) for long periods of time because of faulty or inoperable valves. The interior of the pipelines is so corroded that the capacity of an 8-inch line has been reduced to that of a 1-inch diameter line. The existing water tank serving the village is of steel construction, is badly deteriorated, and is in need of immediate replacement. The replacement water storage tank has been sized to accommodate future regionalization if bulk water sales to either or both of the Masontown and Carmichaels water systems occurs. No water for more than a day on several occasions. Unsafe water storage tank. Unaccounted water loss of greater than 20%. Operating pressures of less than 20 psi in the distribution system. Project will improve this conditions and supply the service area with sufficient potable water with sufficient pressure.

POPULATION: 11867

APPLICANT NAME: WESTMORELAND CTY MA - WEST OTTERMAN	REGION: PITTSBURGH	PROJECT RATING: 53
STREET ADDRESS: PO BOX 730	PWSID: 5650032	PROJRANK: 14
CITY: GREENSBURG, PA 15601-0730	FUND SOURCE: APPLICATION PENDING	PROJECT COST: \$4,750,000
COUNTY: WESTMORELAND	MTGDATE:	PROJECT TYPE: DS

PROJ. DESCRIPTION The existing waterline will be replaced with the following: 7500 feet 20-inch ductile iron pipe on west Otterman street, 1000 feet of 12-inch PVC pipe on West Pittsburgh Street and 1500 feet 8-inch PVC pipe on Seminary Drive.

PROB. DESCRIPTION The existing waterlines within the project area are antiquated and subject to frequent breaks which impact numerous commercial businesses, governmental agencies and health care facilities including the Westmoreland Hospital in Greensburg. Replacement of the existing waterlines will alleviate service interruptions due to breaks and ensure that fire flow abilities will be enhanced.

POPULATION: 400000

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RECOVERY 2009**

DRINKING WATER PROJECT PRIORITY LIST

MARCH 14, 2009

APPLICANT NAME:	ULSTER M A - MEMBRANCE WATER TREATME	REGION:	WILLIAMSPORT	PROJECT RATING:	53
STREET ADDRESS:	P O BOX 131	PWSID:	2080032	PROJRANK:	15
CITY:	ULSTER, PA 18850	FUND SOURCE:	APPLICATION PENDING	PROJECT COST:	\$3,206,250
COUNTY:	BRADFORD	MTGDATE:		PROJECT TYPE:	TREAT, SRC

PROJ. DESCRIPTION The UMA proposed to constructed a 0.144 MGD microfiltration membrane water treatment facility. The system will consist of two (2) Pall Corporation Aria AP-3 skid mounted units each capable of treating the design flows, and providing the needed system redundancy. The system will consist of the necessary chemical feed stations (i.e. sodium hypochlorite, caustic soda, etc.), a baffled concrete clearwell for disinfection and two (2) high service pumps to feed the system and appurtenances. In addition, one shallow (~38') groundwater well will be drilled as a means of replacing the existing degraded well.

PROB. DESCRIPTION This systems wells are both under the influence of surface water. They have entered into a CO&A with the Department to install the treatment process to treat water under surface water influence. Project will develop a new well to produce sufficient raw water for the plant.

POPULATION: 430

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RECOVERY 2009**

DRINKING WATER PROJECT PRIORITY LIST

MARCH 14, 2009

APPLICANT NAME:	ERIE CTY WATER AUTH - MCKEAN TOWNSHIP	REGION:	MEADVILLE	PROJECT RATING:	53
STREET ADDRESS:	340 WEST BAYFRONT PARKWAY	PWSID:	6250028	PROJRANK:	16
CITY:	ERIE, PA 16507	FUND SOURCE:	APPLICATION PENDING	PROJECT COST:	\$5,449,990
COUNTY:	ERIE	MTGDATE:		PROJECT TYPE:	DS

PROJ. DESCRIPTION Approximatley 9.2+ miles of water main extension from EWW to McKean Twp and McKean Borough. Phase I consists of an extension which begins at the existing terminus of the Erie (Summit Township Consecutive System) Water System, located at the intersection of Route 99 with Talley and Reichert Roads which is the border of Summit and McKean Townships. The extension will proceed south on Route 99 to a point just North of Elk Creek, at the intersection of Grubb Road it will continue north on Grubb to Interstate 79. This phase of the project will also include water mains on Mayfair, Maplecrest, Countryside and Georgetown Drives (Georgetown Heights Subdivision). This phase will include approximately 13,000 feet of 12 inch main and approximately 8700 feet of 8 inch water main. Phase II Phase II will continue the water system extension on Route 99 South, to a point at Greenlee Road. An extension from Route 99 will proceed West on West Road to Interstate 79, with extensions North on Windswept and Walmer Roads. An extension will be taken East, on East Road to a terminus yet to be determined on Drown Avenue. Paula Way, Kevin Drive, Cindy Lane, Hamot Street and School Street will also be provided with public water service through distribution line installation. Phase II will install approximately 4,500 feet of 12 inch water main and over 15,000 feet of 8 inch water main. The project will consist of a total of 41,320 feet or 7.8+ miles of water pipe which will potentially serve 275 residential, 33 commercial, 9 industrial and 9 public customers. A population of approximately 735 people will receive safe and reliable public water service as a result of this project.

PROB. DESCRIPTION The project will eliminate an area-wide water quality and quantity in both the Boro and the Township. About 735 people will be provided with safe and reliable Public Water Supply from EWW system. The project will eliminate an ECP site known as Ron Matz Exxon Station in McKean Boro where a fuel storage facility contaminated the groundwater and impacted a local school and several residents of the subdivision located downgradient from the site. About 239 water surveys revealed that about 18% reported having water outages of up to 48 hours due to drought/and or shallow wells. Water quality problems were documented with samples. The samples revealed numerous contaminations of individual wells include iron, manganese, bacteria, sulfur, and detected benzene and MTBE. 19 of the 70 (27%) samples collected contained total Coliform bacteria. Project will serve new service area with potable water.

POPULATION: 46889

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DRINKING WATER PROJECT PRIORITY LIST

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APPLICANT NAME: BADEN BORO - WATERLINE REPLACEMENT	REGION: PITTSBURGH	PROJECT RATING: 51
STREET ADDRESS: 149 STATE STREET	PWSID: 5040080	PROJRANK: 17
CITY: BADEN, PA 15005-1937	FUND SOURCE: APPLICATION PENDING	PROJECT COST: \$2,250,000
COUNTY: BEAVER	MTGDATE:	PROJECT TYPE: DS

PROJ. DESCRIPTION 5,465 Lf of 6" line will be installed (replacing 2,080 LF of 6" lines and 3,385 LF of 4" lines that are deteriorated) and 2,300 LF of 8" line will be installed along SR 65 replacing a small section of 8" line and mostly 6" line.

PROB. DESCRIPTION The Boro of Baden is planning the waterline replacement project because it cannot adequately service the north end of the Boro during major maintenance (line flushing) and repair or fire fighting activities (i.e. water pressure is inadequate during these events). The north end of Baden is the furthest from the source (Ambridge water Authority) and the transmission line on SR 65 serving area is a bottle neck (long section of 6-inch line). Hydrant flow test at the corner of SR 65 and Virginia Ave. gave the result of 480 gpm which is below the recommended 500 gpm for residential fire service. Small businesses, should have 750 gpm available. THE AREAS IN QUESTION HAVE LESS THAN 20PSI AND HAVE WATER OUTAGES FOR 20 AND 26 HOURS ON TWO DIFFERENT OCCASIONS. BADEN BORO HAS MORE THAN 20% WATER LOSS.

POPULATION: 4377

APPLICANT NAME: MONACA BORO - WATER SYSTEM IMPROVEM	REGION: PITTSBURGH	PROJECT RATING: 51
STREET ADDRESS: 928 PENNSYLVANIA AVENUE	PWSID: 5040039	PROJRANK: 18
CITY: MONACA, PA 15061	FUND SOURCE: APPLICATION PENDING	PROJECT COST: \$4,500,000
COUNTY: BEAVER	MTGDATE:	PROJECT TYPE: WS, DS

PROJ. DESCRIPTION Project includes 500,000 gallon elevated water storage tank and 11,000 linear feet of water line replacements

PROB. DESCRIPTION The Borough of Monaca water distribution system needs an elevated water storage tank to correct low water pressure problems in Monaca Heights. The elevated water storage tank will stabilize system pressures, normalize pump station cycles, and provide much needed reserve water volume for fire fighting. The water tank is needed to correct a design problem that currently exists in the system that will not allow the tanks to cycle automatically (the existing ground level tanks must be manually cycled). The installation of new waterlines in key locations would greatly improve the reliability and quality of the water delivered to customer taps in Monaca Borough. This project also involves the replacement of some old lines still in service which will improve water service and reduce the frequency of main breaks.

POPULATION: 6286

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RECOVERY 2009**

DRINKING WATER PROJECT PRIORITY LIST

MARCH 14, 2009

APPLICANT NAME:	BEAVER FALLS MA - WATER INTAKE & WATE	REGION:	PITTSBURGH	PROJECT RATING:	51
STREET ADDRESS:	P.O. BOX 400	PWSID:	5040012	PROJ RANK:	19
CITY:	BEAVER FALLS, PA 15010	FUND SOURCE:	APPLICATION PENDING	PROJECT COST:	\$9,167,940
COUNTY:	BEAVER	MTGDATE:		PROJECT TYPE:	SRC, DS

PROJ. DESCRIPTION Eastvale to Beaver Falls River Crossing Replacement: Replacement of 500' of a failed 16" river crossing pipe restoring necessary service redundancy to the City of Beaver Falls. The re-establishment of this crossing will also improve fire flow capacity to the area. In order to best utilize BFMA funds, the replacement project will be accomplished by trenchless pipe-bursting method. This project is scheduled for completion as part of the new raw water intake utility construction contract. New Brighton 3rd Avenue Water Line Replacement: Replacement of 2,500' of problematic 8" pipe on 3rd Ave from 8th to 13th St in New Brighton. This project will be constructed by BFMA personnel. Beaver Falls 3rd Avenue Water Line Replacement: Replacement of 2,000' of 8" problematic pipe on 3rd Ave from 6th to 11th St in Beaver Falls. This project will be constructed by BFMA personnel. Beaver Falls 19th Street Replacement: Replacement of 1,000' of problematic 6" pipe on 19th St and Tank Alley in Beaver Falls. This project will be constructed by BFMA personnel. Rochester Route 68 Replacement: Replacement of 2,000' of problematic 8" pipe on Route 68 from Davidson to Coleman Dr in Rochester. This project will be constructed by BFMA personnel. Big Beaver Carreywood Road Extension: Installation of 1.1 miles of 12" pipe on Carreywood Rd in Big Beaver to connect the Big Beaver and Chippewa portions of the system for better water turnover and better utilization of the new Big Beaver Tank on Penndale Rd. This project will be constructed by BFMA personnel. Darlington Township 37th Street Ext. Extension: Installation of 2.3 miles of 12" pipe on 37th St Ext to Northwestern Elementary School in Darlington Twp.

PROB. DESCRIPTION The current intake structure at the eastvale WTP was originally intended to provide fire protection water for the city of beaver falls in the early 1900's. The facility is in a severe state of disrepair and requires an extensive amount of operational and maintenance capitol to sustain the flow of water to the plant. The existing arrangement is extremely inefficient and limits downstream treatment capacity and thereby hinders the treatment capacity at the plant. The intake has been shut down several times for a day or two to clean debris from the screens. The proposed distribution work will help eliminate the line breaks and low pressures (less than 20psi) to the customers. Replacing and adding new meters to the distribution system will help with water loss which is greater than 20%.

POPULATION: 49000

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**PENNSYLVANIA INFRASTRUCTURE INVESTMENT AUTHORITY AND DEPARTMENT OF ENVIRONMENTAL PROTECTION
RECOVERY 2009**

DRINKING WATER PROJECT PRIORITY LIST

MARCH 14, 2009

APPLICANT NAME:	JACKSON TWP WATER AUTH (CAMBRIA) SIN	REGION:	PITTSBURGH	PROJECT RATING:	48
STREET ADDRESS:	R.D. #8, BOX 112	PWSID:	4110021	PROJRANK:	20
CITY:	JOHNSTOWN, PA 15909	FUND SOURCE:	APPLICATION PENDING	PROJECT COST:	\$1,700,000
COUNTY:	CAMBRIA	MTGDATE:		PROJECT TYPE:	STO, PS, DS

PROJ. DESCRIPTION The proposed project consist of construction of a 278,000 gallon water storage tank, a pump station and approximately 22000 linear feet of 6" and 8" diameter water main pipelines. The proposed project will serve 42 Residential Equivalent Dwelling Units (EDUs).

PROB. DESCRIPTION Existing water wells have inadequate quality and quantity of water because the groundwater in the area has been negatively impacted by mining activities, wildcat sewers and malfunctioning on-lot systems. The proposed water line extension will provide safe and reliable drinking water to the residents and it will eliminate the contaminated drinking water wells and improve health and safety of the residents.

POPULATION: 1409

LEGEND FOR PROJECT TYPE

SRC = SOURCE TRANS = TRANSMISSION SYSTE TREAT=TREATMENT WS = WATER STORAG DS = DISTRIBUTION SYSTEM

**PENNSYLVANIA INFRASTRUCTURE INVESTMENT AUTHORITY AND DEPARTMENT OF ENVIRONMENTAL PROTECTION
RECOVERY 2009**

DRINKING WATER PROJECT PRIORITY LIST

MARCH 14, 2009

APPLICANT NAME:	HAZELTON CITY AUTH - VARIOUS WATER SY	REGION:	WILKES-BARRE	PROJECT RATING:	48
STREET ADDRESS:	400 E. ARTHUR GARDNER PARKWAY	PWSID:	2408001	PROJRANK:	21
CITY:	HAZLETON, PA 18201	FUND SOURCE:	APPLICATION PENDING	PROJECT COST:	\$12,508,600
COUNTY:	LUZERNE	MTGDATE:		PROJECT TYPE:	TREAT, STO,DS

PROJ. DESCRIPTION The various projects consisting of the following: *Locust Street- replacement of 4,550 L.F of old undersized 4" mains with new 8" ductile iron main, service tie ins, fire hydrants and final paving. *Upgrade Perry Court Pump Station-new pumps, electrical work and addition of a generator for backup power. *Jeansville/Junedale Project-Replacement of approx. 3,000 L.F. of old 3", 4" and 6" water mains with a new 8" water main, tie ins, service line renewals and new fire hydrants in Junedale, and install 1,200 L.F. of new 12" ductile iron water main to feed the village of Jeansville. *Scada System Upgrade (Phases II and III) * Broad Street Project- Replacement of 4,000 L.F. of old 6" water main with a new 12" ductile iron water main, replacement of an old, shallow 10" water main with 3,000 L.F. of new 16 " ductile iron water main and approx. 1,000 L.F. of new ductile iron main at the ties ins on misc. side streets in conjunction with PENNDOT's road widening project. *McKinley Street Tank and Distribution Improvements - Construct new 2 MG welded steel water storage tank and install 1,500 L.F. of new 8" ductile iron water mains on 5th,6th,7th,9th and 11th streets to improve flow to and from tank and eliminate dead ends in the system. *Drifton Tank Replacement-Demolition of existing 66,000 steel tank and valve building and construct a new 300,000 gallon welded steel water storage tank, new valve house and SCADA system. *Rebuild Filters 1,3 and 4 at Water Filtration Plant.

PROB. DESCRIPTION The overall project includes various water system improvements that will improve water quality, provide better fire protection, increase storage capacity, increase pumping output, increase reliability of water service and upgrade the SCADA communication system. Project will help supply sufficient quantity potable water to service area with sufficient pressure.

POPULATION: 40000

LEGEND FOR PROJECT TYPE

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RECOVERY 2009**

DRINKING WATER PROJECT PRIORITY LIST

MARCH 14, 2009

APPLICANT NAME: LEHIGH COUNTY AUTH - WATER MAIN REPL.	REGION: WILKES-BARRE	PROJECT RATING: 48
STREET ADDRESS: 1053 SPRUCE ROAD, PO BOX 3348	PWSID: 3390073	PROJ RANK: 22
CITY: WESCOSVILLE, PA 18106	FUND SOURCE: APPLICATION PENDING	PROJECT COST: \$1,302,000
COUNTY: LEHIGH	MTGDATE:	PROJECT TYPE: DS

PROJ. DESCRIPTION All water mains and appurtenances within the project area will be replaced, including water valves, fittings and fire hydrants. All road surfaces that are disturbed as a result of this project will be repaired to Lower Macungie Township specifications. It is anticipated that construction along Shepherd Hills Avenue in Shepherd Hills will be done first. The Shepherd Hills development in Lower Macungie Township boasts the most CIP in the Central Lehigh Division with over 21,000' of known CIP. The majority of this CIP was installed in 1971. In the last 10 years, there have been 21 different water main leaks and 9 service lateral leaks in the development. Approximately 24,320 feet of mains will be replaced.

PROB. DESCRIPTION Replacement of old, deteriorated mains/valves will reduce the frequency & duration of water outages, will reduce potential introduction of contamination during repairs, will assure more effective & efficient operation of the system and will assure safe, potable water is continuously provided.

POPULATION: 17600

APPLICANT NAME: CHARLEROI BORO AUTH. WATER SYSTEM IN	REGION: PITTSBURGH	PROJECT RATING: 48
STREET ADDRESS: 325 MCKEAN AVE, P.O. BOX 211	PWSID: 5630039	PROJ RANK: 23
CITY: CHARLEROI, PA 15022	FUND SOURCE: APPLICATION PENDING	PROJECT COST: \$4,800,000
COUNTY: WASHINGTON	MTGDATE:	PROJECT TYPE: WS, TRAN

PROJ. DESCRIPTION Project includes the construction of finished water booster station (Twin Reservoir site), a 12 inch transmission main (between Rodgers lane and the pump station), an elevated storage tank (0.5 MG) and an interconnection with the North Charleroi Service District (looped system to avoid "turnover problems when the school is closed).

PROB. DESCRIPTION The proposed improvements will result in restoring adequate water supply capacity to customers of Fallowfield Township along with customers in the Bentleyville Borough, Ellsworth Borough and Somerset areas. Additionally, due to pressure problems in the Fallowfield area, adequate fire protection measures is severely lacking for residents and the elementary school in that immediate area. Also, water losses due to line breaks will be eliminated.

POPULATION: 4461

LEGEND FOR PROJECT TYPE

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**PENNSYLVANIA INFRASTRUCTURE INVESTMENT AUTHORITY AND DEPARTMENT OF ENVIRONMENTAL PROTECTION
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DRINKING WATER PROJECT PRIORITY LIST

MARCH 14, 2009

APPLICANT NAME: PINE GROVE BOROUGH - WATER SYSTEM IM	REGION: WILKES-BARRE	PROJECT RATING: 45
STREET ADDRESS: 17 MIFFLIN ST.	PWSID: 3540037	PROJRANK: 24
CITY: PINE GROVE, PA 17963	FUND SOURCE: APPLICATION PENDING	PROJECT COST: \$2,026,440
COUNTY: SCHUYLKILL	MTGDATE:	PROJECT TYPE: SRC, DS

PROJ. DESCRIPTION The project includes work on the 11 wells includes: new pumps, cleaning of the column, new level transmitters and meters, upgrade the well pits with heaters, dehumidifiers, and electrical equipment. Replace water mains on 5 streets, replace meters for all customers. Repair and paint the storage tank. A new SCADA system with pc hardware and software.

PROB. DESCRIPTION The 11 wells are not working in an integrated system that can always supply enough water due to failure of controls, sensors and well pumps . Some wells need to be cleaned to restore yield and / or have pumps replaced. Water mains are leaking and losses range from 23 to 50 %. The concrete storage tank needs repair.

POPULATION: 3170

APPLICANT NAME: REDBANK VALLEY MA - INTAKE REPLACEMEN	REGION: MEADVILLE	PROJECT RATING: 45
STREET ADDRESS: 212 LAFAYETTE ST	PWSID: 6160010	PROJRANK: 25
CITY: NEW BETHLEHEM, PA 16242	FUND SOURCE: APPLICATION PENDING	PROJECT COST: \$2,799,550
COUNTY: CLARION	MTGDATE:	PROJECT TYPE: SRC, DAM

PROJ. DESCRIPTION The intake project will consist of the following items: A 6' wide by 50' long water supply intake channel with inlet screens built into the existing dam. The project will also include a Denil-type fishway required by the US Fish and Wildlife Service and Pennsylvania Fish and Boat Commission to facilitate upstream movement of resident fish species. To eliminate the dangerous hydraulic condition, 1,260 cubic yards of concrete will be placed in an area approximately 30' by 180' on the downstream side of the existing. The mill race wall at the left abutment will also be removed.

PROB. DESCRIPTION The replacement of the intake structure will provide protection against significant health hazards associated with shutting down the plant and/or no service to customers should the dam fails or collapses.

POPULATION: 2401

LEGEND FOR PROJECT TYPE

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DRINKING WATER PROJECT PRIORITY LIST

MARCH 14, 2009

APPLICANT NAME:	BROAD TOP CITY WATER AUTH. - WATER SY	REGION:	HARRISBURG	PROJECT RATING:	45
STREET ADDRESS:		PWSID:	4310023	PROJRANK:	26
CITY:	BROAD TOP CITY, PA 16621	FUND SOURCE:	APPLICATION PENDING	PROJECT COST:	\$3,100,000
COUNTY:	HUNTINGDON	MTGDATE:		PROJECT TYPE:	SRC, DS

PROJ. DESCRIPTION Installation of 2 new wells @ 55 gpm, 23,000 ft of new distribution pipe w/ looping, use of existing treatment facilities, install ~8 new hydrants and 9,750 ft of raw water transmission main. Distribution system in Borough and sources in Wood Township.

PROB. DESCRIPTION The Broad Top City Water Authority's existing distribution lines are aging and deteriorating. There are multiple dead end lines within the system preventing continual flow. The existing main is not of sufficient size to address the service needs and distribute water to the current service area as well as future expansion of the system. A significant system pressure decrease during peak demand periods is an ongoing problem attributed to the undersized water main. The existing system also does not have enough valves and hydrants which is a concern for public safety and emergency response personnel. The well field development will provide the Authority and its service area a reliable water supply source of excellent quantity and quality with minimal treatment required (disinfection only) as well as address the future expansion needs of the system. The new well source will also address the "dirty water" issues affecting the system. The existing well sources also is affected by high levels of manganese and iron which increase treatment costs as well as other problems.

POPULATION: 384

APPLICANT NAME:	BEDFORD TWP MA - AREA 2 AND 3 WATER SY	REGION:	HARRISBURG	PROJECT RATING:	43
STREET ADDRESS:	P.O. Box 371	PWSID:	4050037	PROJRANK:	27
CITY:	BEDFORD, PA 15522	FUND SOURCE:	APPLICATION PENDING	PROJECT COST:	\$7,025,000
COUNTY:	BEDFORD	MTGDATE:		PROJECT TYPE:	DS

PROJ. DESCRIPTION The project will consist of installation of approximately 52,000 L.F. of ductile iron waterline for Area 2, and 12,190 linear feet of ductile iron waterline for Area 3. The project will also include the installation of fire hydrants, air release vacuum valves, curb stop and curb connections and related appurtenances.

PROB. DESCRIPTION The proposed project will provide public water service to 209 new service connections in Area II (Villages of Yount and Imbertown) and Area 3 (Beldon). Many homes have malfunctioning Onlot sewage disposal systems and contaminated wells. The project will provide a reliable and safe drinking water supply.

POPULATION: 1262

LEGEND FOR PROJECT TYPE

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DRINKING WATER PROJECT PRIORITY LIST

MARCH 14, 2009

APPLICANT NAME: AQUA PA - 2009 NE WATER MAIN PEPLACEME	REGION: WILKES-BARRE	PROJECT RATING: 43
STREET ADDRESS: R D #1 BOX 88B	PWSID: 2400067	PROJRANK: 28
CITY: PITTSTON, PA 18643	FUND SOURCE: APPLICATION PENDING	PROJECT COST: \$3,856,510
COUNTY: LUZERNE	MTGDATE:	PROJECT TYPE: DS

PROJ. DESCRIPTION This project involves the replacment of approximately 27,400 feet of undersized, plastic, and galvanized water main in three of Aqua PA's Northeast water systems. The project will resolve low pressure problems, reduce water main breaks and resultant customer outages, and help reduce water loss from leaks.

PROB. DESCRIPTION Replacement of undersized, plastic and galvanized pipeline in Elmbrook, Hamilton and Hex Acres systems; lack of backup sources for Tambur system; water main breaks, customer outages and low pressure areas. Project will reduce high unaccounted for water losses, provide for improved fire prootection capability and enhance pressures in the distribution system.

POPULATION: 1408851

APPLICANT NAME: SCHUYLKILL CTY MA - DAM REHABILITATION	REGION: WILKES-BARRE	PROJECT RATING: 40
STREET ADDRESS: 221 S CENTRE STREET	PWSID: 3540038	PROJRANK: 29
CITY: POTTSVILLE, PA 17901	FUND SOURCE: APPLICATION PENDING	PROJECT COST: \$4,717,500
COUNTY: SCHUYLKILL	MTGDATE:	PROJECT TYPE: DAM

PROJ. DESCRIPTION Project includes rehabilitation of the Mt. Laurel, Kaufmann, Pine Run and Indian Run Dams which are all unsafe high hazard dams according to the Department's Division of Dam Safety as documented in a letter to SCMA dated August 27, 2007. In general, the project will upgrade the spillway capacity, address embankment deficiencies, and slope stability at each of the dams. At the Mt. Laurel Dam, the rehabilitation project will include raising the dam with earth fill, constructing a segmental retaining wall on the upstream slope, constructing a replacement drop spillway, and embankment modifications. At the Kaufmann, Pine Run, and Indian Run Dams, the project will inculde installing a staged labyrinth weir at each dam while maintaining the existing top of dam elevation. It also includes flattening of the downstream slopes to enhance stability and constructing embankment drainage systems. The population affected by this project is 33,000 in Schuylkill County

PROB. DESCRIPTION The Rehabilitation Project will allow these dams to continue at their current use. The Project promotes the most efficient management of water resources and protects the health and safety of the citizens of the Commonwealth in many ways. The most critical item that the project will address is removing the four dams from the PADEP's Unsafe High Hazard Dam list

POPULATION: 25289

LEGEND FOR PROJECT TYPE

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MARCH 14, 2009

APPLICANT NAME:	PITTSBURGH WATER AND SEWER AUTHORIT	REGION:	PITTSBURGH	PROJECT RATING:	39
STREET ADDRESS:	441 SMITHFIELD ST.	PWSID:	5020038	PROJRANK:	30
CITY:	PITTSBURGH, PA 15222	FUND SOURCE:	APPLICATION PENDING	PROJECT COST:	\$10,750,800
COUNTY:	ALLEGHENY	MTGDATE:		PROJECT TYPE:	WASTE, TRAN

PROJ. DESCRIPTION The project involves the removal of the existing longitudinal sludge collectors and screw cross collections in Clarifier Nos. 1, 2 and 3, and their replacement with new equipment; the replacement of existing Motor Control Centers No. 6 and 7 in the electrical room at the clarifier tanks; the rehabilitation of 10,000 lineal feet of pipe main that is over 150 years old - the Fox Chapel 60" riveted steel pipe water main from the Aspinwall Water Treatment Plant to the Borough of Blawnox; and the rehabilitation of the Squirrel Hill above ground water storage tank (3 million gallons capacity).

PROB. DESCRIPTION Sludge from the clarifiers currently is discharged to the public sewer system operated by the Allegheny County Sanitary Authority (ALCOSAN). In accordance with their Consent Order, PWSA water treatment plant is limited to a maximum daily discharge of 1 million gallons to the public sewer system. The clarifier project will allow PWSA to be in compliance with this mandate. The immediate benefit of the 60-inch transmission main improvement project it will reduce the incidence of service interruptions to residential and business customers supplied by the pipeline. Long Term benefit, rehabilitation of this line will position PWSA for possible expansion of its service area to Communities east of the water treatment plant. Consent Order with ALCOSAN, ACHD, DEP. Clarifiers are broken and excess sludge is deposited in river and/or in ALCOSAN pipe, which is a violation of the Consent Order. Project will improve these conditions.

POPULATION: 334583

APPLICANT NAME:	AQUA PA - COUNTRY CLUB GARDEN WATER	REGION:	WILKES-BARRE	PROJECT RATING:	38
STREET ADDRESS:	762 LANCASTER AVE.	PWSID:	1090147	PROJRANK:	31
CITY:	BRYN MAWR, PA 19010-3402	FUND SOURCE:	APPLICATION PENDING	PROJECT COST:	\$1,226,000
COUNTY:	LEHIGH	MTGDATE:		PROJECT TYPE:	SRC

PROJ. DESCRIPTION Replace existing well stations, install pitless adapters/raise casings, provide storage (2 w/5000 gallon hydro tanks, 1 w/ storage/pump station), install Cl2 contact pipe, install new electric/control equipment, install emergency generators, install security fencing.

PROB. DESCRIPTION Three different systems of similar design with similar deficiencies consisting of no backup power, wells located within pits, in-ground vault structures in deteriorated condition with buried steel gravity storage tanks, corroded non-functional electrical equipment and structural deterioration resulting in unsafe conditions. Project will eliminate badly deteriorated structures and electrical deficiencies, will improve the ability to operate & maintain the systems and will increase service reliability.

POPULATION: 1408851

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MARCH 14, 2009

APPLICANT NAME: ELIZABETHTOWN AREA WATER AUTH- NEW	REGION: HARRISBURG	PROJECT RATING: 38
STREET ADDRESS: 600 SOUTH HANOVER STREET	PWSID: 7360124	PROJRANK: 32
CITY: ELIZABETHTOWN, PA 17022	FUND SOURCE: APPLICATION PENDING	PROJECT COST: \$6,026,350
COUNTY: LANCASTER	MTGDATE:	PROJECT TYPE: TREAT

PROJ. DESCRIPTION The project includes new membrane filtration plant with all required treatment and equipment necessary. Existing clearwell and finished water pumps will be retained.

PROB. DESCRIPTION Existing facility cannot comply with EPA Long Term 2 Enhanced Surface Water Rule; cannot treat entire amount of DEP water allocation; insufficient water for current peak demands and future growth. The project will provide potable water in sufficient quantity to the service area.

POPULATION: 9611

APPLICANT NAME: PA AMERICAN WATER CO - REHAB NESBITT D	REGION: WILKES-BARRE	PROJECT RATING: 36
STREET ADDRESS: 39 PUBLIC SQUARE	PWSID: 2409010	PROJRANK: 33
CITY: WILKES-BARRE, PA 18711	FUND SOURCE: APPLICATION PENDING	PROJECT COST: \$31,125,000
COUNTY: LACKAWANNA	MTGDATE:	PROJECT TYPE: DAM

PROJ. DESCRIPTION The proposed project will rehabilitate the Pennsylvania American Water Company's Nesbitt Dam as mandated by the Pennsylvania Department of Environmental Protection, Bureau of Waterways Engineering, Division of Dam Safety to comply with current dam safety requirements. The primary objectives of the project include increasing total spillway capacity to convey the Probable Maximum Flood (PMF); improving stability; and correcting observed seepage problems. The project, which is needed to address safety related concerns identified at the dam, includes installing a roller compacted concrete buttress and post-tensioned rock anchors; armoring the existing embankment to pass the PMF; widening the embankment's top width and flattening it's downstream slope, and installation of a drainage blanket and drain system to collect observed seepage.

PROB. DESCRIPTION Dam structure does not conform to current dam safety requirements, does not have adequate spillway capacity to convey the design flood, and has observed seepage problems. The proposed rehabilitation project which includes increasing the dam's spillway to safely pass the design flood and buttressing the dam against a sliding or overturning failure is needed not only to adhere to DEP regulations but for the safety of the people downstream and to maintain a viable water supply for the region.

POPULATION: 582797

LEGEND FOR PROJECT TYPE

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MARCH 14, 2009

APPLICANT NAME: MAHANOY TWP AUTH - LOFTY DAM REHAB	REGION: WILKES-BARRE	PROJECT RATING: 36
STREET ADDRESS: 46 NORTH MAIN STREET	PWSID: 3540011	PROJRANK: 34
CITY: MAHANOY CITY, PA 17948	FUND SOURCE: APPLICATION PENDING	PROJECT COST: \$833,333
COUNTY: SCHUYLKILL	MTGDATE:	PROJECT TYPE: DAM

PROJ. DESCRIPTION MTA is proposing the rehabilitation of the Lofy Dam to bring the facility into compliance with Chapter 105 regulations. Proposed improvements include correcting and stabilizing the seepage and embankment conditions and repairing outlet works. Additionally, grading, piezometer installation, construction of drainage swales, spillway improvements, toe drain, cutoff wall and outlet works valving improvements will be undertaken. The MTA Lofty Reservoir Dam serves as a permitted PWS system's raw water source of supply. The population served is approximately 7,000 people through 2,800 connections.

PROB. DESCRIPTION The Lofty Reservoir Dam Improvements Project is necessitated by deteriorating conditions on the earthen embankment and outlet works structure. Erosion and rutting is occurring on the upstream crest and slope of the embankment; the downstream slope contains severe rutting, sloughing, and erosion. Seepage also has been identified. The 20-inch outlet works valves are inoperable. Also, the spillway is deteriorated and undersized and does not meet DEP's sizing requirements. This project will allow the continued use of this much needed raw water supply for the Authority.

POPULATION: 7000

APPLICANT NAME: ASHLAND AREA MA - ASHLAND DAM IMPROV	REGION: WILKES-BARRE	PROJECT RATING: 36
STREET ADDRESS: 501 CHESTNUT STREET	PWSID: 3540030	PROJRANK: 35
CITY: ASHLAND, PA 17921	FUND SOURCE: APPLICATION PENDING	PROJECT COST: \$646,650
COUNTY: SCHUYLKILL	MTGDATE:	PROJECT TYPE: DAM

PROJ. DESCRIPTION The Ashland Dam will be raised six feet to comply with DEP Dam Safety Regulations regarding High Hazard Dam Spillway capacity requirements.

PROB. DESCRIPTION The Ashland Dam does not meet DEP regulations regarding spillway capacity. We intend to raise the Dam six feet to gain storage capacity, which will allow the spillway to keep up with the probable maximum flood conditions thereby complying with DEP regulations regarding spillway capacity. Completing this project will maintain the primary drinking water supply to its service area.

POPULATION: 5000

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MARCH 14, 2009

APPLICANT NAME: HIGHRIDGE WATER AUTH - SUGER RUN DAM	REGION: PITTSBURGH	PROJECT RATING: 35
STREET ADDRESS: 28 NORTH WALNUT STREET	PWSID: 5650069	PROJRANK: 36
CITY: BLAIRSVILLE, PA 15717	FUND SOURCE: APPLICATION PENDING	PROJECT COST: \$3,784,315
COUNTY: WESTMORELAND	MTGDATE:	PROJECT TYPE: DAM

PROJ. DESCRIPTION The work will consist of constructing a major buttress fill, installation of blanket drains, a new outlet control tower, an emergency spillway and repairs to the existing spillway and outlet piping. This Dam is classified in hazard potential, Category 2, under Section 105.91 of the Rules and Regulation 25 PA Code 105.91(b) because in the event of a dam failure and subsequent downstream flooding, there would be potential for loss of life, economic loss.

PROB. DESCRIPTION The stability of Sugar Run Dam was pushed over the limit when it was damaged by high waters in the January 1996 flood. The reservoir has been operated at reduced levels over the past decade. The rehabilitation of the Dam and Reservoir is not only vital to the Authority's water supply, but is also vital to maintaining the environmental integrity of the area.

POPULATION: 4880

APPLICANT NAME: SELLERSVILLE BORO - WASHINGTON AVE. W	REGION: NORRISTOWN	PROJECT RATING: 35
STREET ADDRESS: 140 EAST CHURCH ST	PWSID: 1090062	PROJRANK: 37
CITY: SELLERSVILLE, PA 18960	FUND SOURCE: APPLICATION PENDING	PROJECT COST: \$377,119
COUNTY: BUCKS	MTGDATE:	PROJECT TYPE: DS

PROJ. DESCRIPTION Project will replace 1000' of 4" CIP waterline with 8" DIP water, 46 water services.

PROB. DESCRIPTION The water piping in this section of Washington Ave. was built in the early 1900s; thus, it is over 90 years old and in poor condition. The existing 4" CIP waterline is heavily tuberculated and has usable inside diameter of +/- 2". Inadequate fire protection exists and dirty water complaints are frequent. Project will correct these situation and will supply sufficient potable water to the service area.

POPULATION: 1855

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DRINKING WATER PROJECT PRIORITY LIST

MARCH 14, 2009

APPLICANT NAME: BROOKVILLE MA - MEMBRANE TREATMENT F	REGION: MEADVILLE	PROJECT RATING: 35
STREET ADDRESS: TRHEE JEFFERSON COURT	PWSID: 6330004	PROJRANK: 38
CITY: BROOKVILLE, PA 15825	FUND SOURCE: APPLICATION PENDING	PROJECT COST: \$11,638,000
COUNTY: JEFFERSON	MTGDATE:	PROJECT TYPE: TREAT

PROJ. DESCRIPTION Project will include the following: 1) New stream intake and appurtenances 2) One (1) in-line static mixer 3) New pre and post chemical feed equipment 4) Two (2) two-stage flocculations basins equipped with variable speed mixers 5) Two (2) sedimentation basins each capable of providing 2 hours of detention time at the proposed maximum facility flow rates 6) New 1.5 MGD capacity microfiltration membrane water treatment facility, consisting of three (3) Pall Corporation Aria AP-6 skid mounted units 7) New baffled clearwell for disinfection contact time 8) UV disinfection units for multi-barrier protection and compliance with the Long Term 2 Enhanced Surface Water Treatment Rule 9) New filter backwash and filter-to-waste wastewater holding tank 10) New sand drying bed for filtering of wastewater solids 11) Facility appurtenances such as finished water pumps, laboratory equipment, SCADA system and controls, etc. 12) New masonry control building (located above existing impoundment containing the membrane treatment, chemical feed/storage, UV and laboratory/office facilities)

PROB. DESCRIPTION The Brookville water treatment facility was constructed in 1911. Through diligent maintenance and optimization, the facility has historically functioned with only minor renovations and additions. Thorough evaluation of the Authority's source of supply and facility infrastructure has determined numerous deficiencies in water quality, treatability and overall compliance with current and future drinking water regulations. The project will eliminate a potential threat associated with the plant capability of 99.9 % inactivation of Giardia cysts. It will also eliminate an operation of an aged and structurally deficient plant.

POPULATION: 5500

APPLICANT NAME: HILLTOWN TWP WSA - WELL NO 1 ARSENIC R	REGION: NORRISTOWN	PROJECT RATING: 34
STREET ADDRESS: PO BOX 143	PWSID: 1090117	PROJRANK: 39
CITY: HILLTOWN, PA 18927	FUND SOURCE: APPLICATION PENDING	PROJECT COST: \$1,108,480
COUNTY: BUCKS	MTGDATE:	PROJECT TYPE: TREAT

PROJ. DESCRIPTION Project is to bring the authority's well #1 into compliance with the Arsenic Rule in installing arsenic treatment. The authority's other well already has arsenic treatment installed

PROB. DESCRIPTION Recent changes to the EPA drinking water regulations have greatly impacted the Hilltown Township Water and Sewer Authority (HTWSA) ground water supply. Specifically, the Arsenic Rule which lowered the arsenic standard from 50 micrograms per liter (µg/l) to 10 µg/l. As a result, the use of Well No 1 which currently has arsenic level of 17 µg/l had to be suspended. The goal of this project is to bring Well No 1 into compliance with the Arsenic Rule and to provide a reliable water source for both Hilltown Township and Silverdale Borough.

POPULATION: 3516

LEGEND FOR PROJECT TYPE

SRC = SOURCE TRANS = TRANSMISSION SYSTEM TREAT=TREATMENT WS = WATER STORAGE DS = DISTRIBUTION SYSTEM

**PENNSYLVANIA INFRASTRUCTURE INVESTMENT AUTHORITY AND DEPARTMENT OF ENVIRONMENTAL PROTECTION
RECOVERY 2009**

DRINKING WATER PROJECT PRIORITY LIST

MARCH 14, 2009

APPLICANT NAME:	PHILADELPHIA CITY- WATER MAIN REPLACE	REGION:	NORRISTOWN	PROJECT RATING:	33
STREET ADDRESS:	1101 MARKET STREET	PWSID:	1510001	PROJRANK:	40
CITY:	PHILADELPHIA, PA 19107	FUND SOURCE:	APPLICATION PENDING	PROJECT COST:	\$57,268,193
COUNTY:	PHILADELPHIA	MTGDATE:		PROJECT TYPE:	DS, PS, TRAN

PROJ. DESCRIPTION This project represents 14 miles of traditional water main replacement to eliminate old and leaking piping thereby helping to reduce the overall energy demand at the Water Treatment Plants by. The pump stations involved in this application have rated capacities are as follows, Queen Lane High Service Pumping Station (40 MGD), Roxborough Express Pumping Station (37.5 MGD), Torresdale Filtered Water Pumping Station (274 MGD). The Fox Chase Tank has a storage capacity of 1.5 MG. The Queen Lane Pumping Station is a new facility with the most energy efficient equipment available. Work at the other two pumping stations involves the installation of standby generators to improve reliability and overall safety. The generators are specified to be the energy efficient. This project will create 897 Pennsylvania resident jobs.

PROB. DESCRIPTION The system is experiencing a large number of water main breaks thereby negatively impacting service reliability for domestic use and fire protection. Existing pump stations have reached the end of their useful life and therefore may negatively impact system reliability. The projects in this application will allow the city to improve its water system reliability. Emergency backup power generation will insure the ability to provide water service during electrical power failures. The Fox Chase Tank provides water storage and system pressure control. The tank currently has corrosion issues which will compromise it's ability to remain in service. This project will remedy this issue.

POPULATION: 1672000

LEGEND FOR PROJECT TYPE

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**PENNSYLVANIA INFRASTRUCTURE INVESTMENT AUTHORITY AND DEPARTMENT OF ENVIRONMENTAL PROTECTION
RECOVERY 2009**

DRINKING WATER PROJECT PRIORITY LIST

MARCH 14, 2009

APPLICANT NAME: PLEASANTVILLE BORO - 2009 ELEVATED WAT	REGION: MEADVILLE	PROJECT RATING: 33
STREET ADDRESS: 114 WEST STATE STREET	PWSID: 6610025	PROJRANK: 41
CITY: PLEASANTVILLE, PA 16341	FUND SOURCE: APPLICATION PENDING	PROJECT COST: \$1,713,300
COUNTY: VENANGO	MTGDATE:	PROJECT TYPE: STO, DS

PROJ. DESCRIPTION The project will include the construction of a 250,000 gallon tank designed to make the entire volume available for normal as well as emergency operation. A booster pump on the "inlet" and a PRV (pressure regulating valve) on the "outlet" will also be installed as part of the project. The existing tank will be required to be removed prior to installation of the new tank. With the existing tank out-of-service, all water service will be provided exclusively from the Phillips water booster pump station. To insure proper operation of the water system while the elevated tank is out of service, as well as when the new tank is put in service, improvements to the Phillips booster pump station will be necessary. The improvements will include a pressure control system & emergency generator. The project will also include the replacement of a 4" waterline and defective fire hydrants which will improve water service as well as fire protection.

PROB. DESCRIPTION The Pleasantville system currently has a 40,000 gallon remote pressure tank that was constructed in 1909. This tank is structurally unstable and not repairable. Also, there is only approximately 20,000 gallons of useable storage within the tank. System useage averages approximately 140,000 gpd therefore the tank is undersized and will not provide the 1-day storage required by the Department. Project will make sufficient storage of finished water, that will help operations and fire protection.

POPULATION: 1150

APPLICANT NAME: VOLANT BORO - WATER SYSTEM IMPROVEM	REGION: MEADVILLE	PROJECT RATING: 32
STREET ADDRESS: BOX 43	PWSID: 6370042	PROJRANK: 42
CITY: VOLANT, PA 16156	FUND SOURCE: APPLICATION PENDING	PROJECT COST: \$1,312,446
COUNTY: LAWRENCE	MTGDATE:	PROJECT TYPE: TREAT, DS

PROJ. DESCRIPTION Installation of a pre-assembled, insulated, steel package pressure filtration units for treatment and filtration with a design capacity of 72,000 gpd. Relacement of 4,000 L.F of undersized waterlines, valves and fire hydrants.

PROB. DESCRIPTION Existing treatment is inadequate and has reached its useful life. One greensand filter was originally purchased from New Wilmington in 1960 and has been in service till now. A 15,000-gallon concrete finished storage tank was covered in 1996 but does not provide a watertight structure. The distribution system is dated to 1924 and has encountered numerous leaks. Fire hydrants and valves are non operable. The non-duplicity of treatment equipment leaves the system with a potential of no service or no water at the tap if the sole equipment must be taken out of service for any reason. Filter backwash is disposed of in an 8,500 gallon unpermitted lagoon.

POPULATION: 113

LEGEND FOR PROJECT TYPE

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**PENNSYLVANIA INFRASTRUCTURE INVESTMENT AUTHORITY AND DEPARTMENT OF ENVIRONMENTAL PROTECTION
RECOVERY 2009**

DRINKING WATER PROJECT PRIORITY LIST

MARCH 14, 2009

APPLICANT NAME: AQUA PA - SCHUYLKILL RIVER RAW WATER I	REGION: NORRISTOWN	PROJECT RATING: 31
STREET ADDRESS: 762 LANCASTER AVE.	PWSID: 1460073	PROJ RANK: 43
CITY: BRYN MAWR, PA 19010-3402	FUND SOURCE: APPLICATION PENDING	PROJECT COST: \$4,983,200
COUNTY: CHESTER	MTGDATE:	PROJECT TYPE: SRC/intake

PROJ. DESCRIPTION Installation of three "passive" water intake screens and installation of new raw water pumps to improve raw water pumping capabilities and improve operator safety.

PROB. DESCRIPTION This facility is part of Aqua's "Main" System which serves the four counties surrounding Philadelphia. Main System serves approximately one third of a million people. The facility has three raw water intakes, this project will assure uninterrupted use of the Schuylkill River intake.

POPULATION: 1408851

APPLICANT NAME: AQUA PA - SHENANGO INTAKE DAM REHAB.	REGION: MEADVILLE	PROJECT RATING: 30
STREET ADDRESS: 762 LANCASTER AVE.	PWSID: 4300503	PROJ RANK: 44
CITY: BRYN MAWR, PA 19010-3402	FUND SOURCE: APPLICATION PENDING	PROJECT COST: \$1,505,569
COUNTY: MERCER	MTGDATE:	PROJECT TYPE: DAM

PROJ. DESCRIPTION Rehabilitation of the Shenango Intake Dam will address the following problems and risks: Dam Failure, Hydraulic Roll, and Safety. The project proposes to: Address the foundation undermining by constructing a slush grouted boulder revetment on the downstream side of the dam and grouting below the toe of the dam; Repair the deteriorated concrete using standard concrete repair methods; Fill the low area at the left bank with engineered fill; Installing fencing, handrails and signage where applicable to improve safety; and Eliminate the hydraulic roll created by the dam through the slush grouted boulder revetment.

PROB. DESCRIPTION Continued undermining at the toe of the dam could eventually result in failure of the dam. If the dam failed then the Aqua's water treatment plant could be shut down for an extended period of time, leaving approximately 80,000 people and several health care facilities without water and fire protection. The hydraulic roll created by the downstream shape of the dam creates a safety hazard for the boating and fishing public. This project will eliminate the dangerous hydraulic roll. The fencing and handrails around the dam will be improve safety.

POPULATION: 1408851

LEGEND FOR PROJECT TYPE

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**PENNSYLVANIA INFRASTRUCTURE INVESTMENT AUTHORITY AND DEPARTMENT OF ENVIRONMENTAL PROTECTION
RECOVERY 2009**

DRINKING WATER PROJECT PRIORITY LIST

MARCH 14, 2009

APPLICANT NAME:	GROVE CITY BOROUGH - METER REPLACEME	REGION:	MEADVILLE	PROJECT RATING:	28
STREET ADDRESS:	123 WEST MAIN STREET	PWSID:	6430040	PROJRANK:	45
CITY:	GROVE CITY, PA 16127	FUND SOURCE:	APPLICATION PENDING	PROJECT COST:	\$1,120,000
COUNTY:	MERCER	MTGDATE:		PROJECT TYPE:	DS

PROJ. DESCRIPTION Installation of 2,495 residential and commercial water meters throughout the Grove City system.

PROB. DESCRIPTION Replacement of old water meters that are under-registering actual water delivered to customers. Replacing the water meters will provide a better understanding of the unaccounted-for water throughout the system. Currently the unaccounted for water is 29.8% of total system use. The project will also install backflow prevention on neach commercial customer providing consumers with an extra safety measure.

POPULATION: 8024

APPLICANT NAME:	SHIPPENSBURG BORO AUTH - WATER MAIN	REGION:	HARRISBURG	PROJECT RATING:	25
STREET ADDRESS:	60 BURD STREET	PWSID:	7210043	PROJRANK:	46
CITY:	SHIPPENSBURG, PA 17257	FUND SOURCE:	APPLICATION PENDING	PROJECT COST:	\$7,012,000
COUNTY:	CUMBERLAND	MTGDATE:		PROJECT TYPE:	DS

PROJ. DESCRIPTION The project includes replacement and in some areas, relocation of approximately 12 miles or 56,300 linear feet of water main pipe with 12-inch ductile iron pipe and appurtenances.

PROB. DESCRIPTION The Authority's water mains from the Borough of Shippensburg, along Roxbury Road, to the Gunter Walley Treatment Facility in Lurgan Township experiences repeated breakage, leaks and water loss, the pipes have been repeatedly repaired without lasting improvement. Since 1990 sections of the mains have required repair or replacement over 160 times. The project will improve the efficiency of the transmission and distribution of water to customers and allow for 100% capacity use of the water storage tank at the treatment facility. Currently the tank stores water at about 66% of capacity to reduce the pressure on the Roxbury Road mains.

POPULATION: 5086

LEGEND FOR PROJECT TYPE

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**PENNSYLVANIA INFRASTRUCTURE INVESTMENT AUTHORITY AND DEPARTMENT OF ENVIRONMENTAL PROTECTION
RECOVERY 2009**

DRINKING WATER PROJECT PRIORITY LIST

MARCH 14, 2009

APPLICANT NAME: PA AMERICAN WATER CO - REHAB THORN R	REGION: MEADVILLE	PROJECT RATING: 25
STREET ADDRESS: 2936 ELLWOOD ROAD	PWSID: 5100012	PROJRANK: 47
CITY: NEW CASTLE, PA 16101	FUND SOURCE: APPLICATION PENDING	PROJECT COST: \$9,650,000
COUNTY: BUTLER	MTGDATE:	PROJECT TYPE: DAM

PROJ. DESCRIPTION The project, which is needed to address safety related concerns identified at the dam, includes replacement of the principal spillway to provide adequate capacity to convey the 100-year flood; armoring the existing embankment to pass the PMF; replacing pipes and valves and encasing the low-level outlet facilities to eliminate potential piping of the embankment; and installation of drainage features to correct observed seepage problems.

PROB. DESCRIPTION The proposed project will rehabilitate the PA American Water Company's Thorn Run Dam as mandated by the DEP-DDS to comply with current dam safety requirements. The project will allow the dam to safely convey the Probable maximum Flood (PMF), improve bank stability, and correct seepage problems.

POPULATION: 582797

APPLICANT NAME: AQUA PA - SE PA TANK PAINTING	REGION: NORRISTOWN	PROJECT RATING: 25
STREET ADDRESS: 762 LANCASTER AVE.	PWSID: 1460073	PROJRANK: 48
CITY: BRYN MAWR, PA 19010-3402	FUND SOURCE: APPLICATION PENDING	PROJECT COST: \$1,714,900
COUNTY: CHESTER	MTGDATE:	PROJECT TYPE: STO

PROJ. DESCRIPTION Project includes rehabilitate and re-coat existing Plymouth and Clifton Tanks, and construct a Booster at the existing Perkiomen Standpipe.

PROB. DESCRIPTION Plymouth Tank & Clifton Tank 1.Improve poor water quality from interior rust of wetted surface. Continue fire-flow deliverability going forward for another 20 years 2.Improved tank safety features 3.Improved access to tank interior Perkiomen Tank Booster 1.Eliminate low pressure complaints when tank level falls below 70 feet 2.Increase the useful storage volume of an existing tank asset. 3.Improve supply reliability during seasonal periods of high demand.

POPULATION: 1408851

LEGEND FOR PROJECT TYPE

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**PENNSYLVANIA INFRASTRUCTURE INVESTMENT AUTHORITY AND DEPARTMENT OF ENVIRONMENTAL PROTECTION
RECOVERY 2009**

DRINKING WATER PROJECT PRIORITY LIST

MARCH 14, 2009

APPLICANT NAME: AQUA PA - PICKERING RESIDUAL PROCESSIN	REGION: NORRISTOWN	PROJECT RATING: 24
STREET ADDRESS: 762 LANCASTER AVE.	PWSID: 1460073	PROJRANK: 49
CITY: BRYN MAWR, PA 19010-3402	FUND SOURCE: APPLICATION PENDING	PROJECT COST: \$9,826,200
COUNTY: CHESTER	MTGDATE:	PROJECT TYPE: WASTE

PROJ. DESCRIPTION Aqua is planning to install residuals thickening and dewatering facilities to reduce the volume of residuals requiring disposal. This will extend the life of the quarry monofill and forestall the need to dispose of these residuals at off-site landfills. Aqua is planning to construct residuals facilities including the following: Residuals transfer pump station and force main, Residuals thickeners, Residuals dewatering building with belt filter presses, Polymer addition systems

PROB. DESCRIPTION These improvements will address the following residuals handling problems: Existing lagoon dewatering practices produce 10% solids, and at times, it is difficult to pass the paint filter test required for landfill disposal. It is not practical to reduce the residuals generation rate, as any such action would restrict the water treatment plants' processing capacity and cause spikes in the turbidity of finished water. Further dewatering could be achieved with additional lagoon area; however, there is not sufficient land available for lagoon expansion. There is limited space remaining in the quarry monofill, and residuals volume reduction will extend quarry life. Current dewatering practices are labor intensive, and this project will help reduce that.

POPULATION: 1408851

APPLICANT NAME: GREENVILLE BORO MA - EAST END WATER S	REGION: MEADVILLE	PROJECT RATING: 23
STREET ADDRESS: 44 CLINTON STREET, P O BOX 638	PWSID: 6430037	PROJRANK: 50
CITY: GREENVILLE, PA 16125	FUND SOURCE: APPLICATION PENDING	PROJECT COST: \$1,073,700
COUNTY: MERCER	MTGDATE:	PROJECT TYPE: STO

PROJ. DESCRIPTION Project includes construction of a new 1,000,000 gallon water storage tank.

PROB. DESCRIPTION The existing 250,000 does not provide adequate storage for normal use or fire protection based on the growth in the area. The new water storage tank will allow the high pressure zone area to meet flow demand and fire protection needs at an area that serves most of the business and commercial developments. The new tank will reduce frequent pumping and surges that leads to pipe scouring and dirty water complaints. The new tank will also improve the pressure at some affected homes. The new tank will improve overall system operation and allows for existing tank to be taken out of service for maintenance without service interruption.

POPULATION: 5714

LEGEND FOR PROJECT TYPE

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**PENNSYLVANIA INFRASTRUCTURE INVESTMENT AUTHORITY AND DEPARTMENT OF ENVIRONMENTAL PROTECTION
RECOVERY 2009**

DRINKING WATER PROJECT PRIORITY LIST

MARCH 14, 2009

APPLICANT NAME: MILLCREEK TWP WATER AUTH - LANCASTER/	REGION: MEADVILLE	PROJECT RATING: 23
STREET ADDRESS: ERIQUE ISLE, P O BOX 8332	PWSID: 6250076	PROJRANK: 51
CITY: ERIE, PA 16505	FUND SOURCE: APPLICATION PENDING	PROJECT COST: \$500,000
COUNTY: ERIE	MTGDATE:	PROJECT TYPE: DS

PROJ. DESCRIPTION The project involves approximately 4100 feet of 12" diameter water main, is currently designed for 8 fire hydrants, and service to 40 or more parcels with public water and fire protection. Project will loop the dead end lines.

PROB. DESCRIPTION By looping the system, the pressure will be improved and reliability of system will be improved. Also, new developments will be better served with a looped system. Project will provide sufficient pressure for fire protection within service area.

POPULATION: 100

APPLICANT NAME: HOLIDAYSBURG BOROUGH AUTH. - BRUSH M	REGION: HARRISBURG	PROJECT RATING: 23
STREET ADDRESS: 401 BLAIR STREET	PWSID: 4070017	PROJRANK: 52
CITY: HOLLIDAYSBURG, PA 16648	FUND SOURCE: APPLICATION PENDING	PROJECT COST: \$1,100,000
COUNTY: BLAIR	MTGDATE:	PROJECT TYPE: DS

PROJ. DESCRIPTION Project includes replacement of over 13,000 L.F., 8" cast iron water transmission and distribution mains that were constructed in the early 1900s to convey water from the Brush Mountain Reservoir in Frankstown Township to the Borough of Hollidaysburg.

PROB. DESCRIPTION The hydraulic capacity of the existing 8" C.I. main is severely limited due to tuberculation. This has been confirmed with flow tests and by repair work that has been done. Maintenance on the existing main is limited by the location of the pipe being close to, and under, some of the buildings. This project proposes to move the new system into public right-of-ways or easements to be acquired by the Authority. Appropriate fire flows are not available on the lower portion of the system (downstream of the booster pump station at Center Avenue). Upgrade of the existing line is needed to assure reliable service to the existing and future users.

POPULATION: 6322

LEGEND FOR PROJECT TYPE

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**PENNSYLVANIA INFRASTRUCTURE INVESTMENT AUTHORITY AND DEPARTMENT OF ENVIRONMENTAL PROTECTION
RECOVERY 2009**

DRINKING WATER PROJECT PRIORITY LIST

MARCH 14, 2009

APPLICANT NAME: AQUA PA - MERCER COUNTY TANK IMPROVE	REGION: MEADVILLE	PROJECT RATING: 21
STREET ADDRESS: 762 LANCASTER AVE.	PWSID: 4300503	PROJ RANK: 53
CITY: BRYN MAWR, PA 19010-3402	FUND SOURCE: APPLICATION PENDING	PROJECT COST: \$1,913,795
COUNTY: MERCER	MTGDATE:	PROJECT TYPE: DS, WS

PROJ. DESCRIPTION The Gail Drive Tank Project will involve: Repaint Interior and Exterior; Re-grouting and caulking required at base of the tank, included in base cost; New frost/vandal proof final vent and collar are required; a second roof top service hatch is required; add a flap gate valve to the bottom end of the overflow pipe (Note that pipe may have to be modified (shortened) to accept the flap gate); Remove slide type fall arrest device and replace with cable type; Remove and replace ladder gate; all bolts will be replaced with stainless steel type; and all new gaskets will be installed. The Mercer Tank Project will involve the construction of a new 750,000 gallon elevated tank on SR 62, along the 12-inch diameter transmission main that serves the area. The tank site is approximately one mile west of the Borough. The existing standpipes will be decommissioned.

PROB. DESCRIPTION Gail Drive Tank Rehab/Repair and Mercer Tank Replacement along with the 12-inch diameter transmission main will provide sufficient storage available for both domestic or average day demands and for emergencies, e.g. fires, main breaks, power outages. This will greatly improve reliability of this outlying area and increase effectiveness of the distribution system.

POPULATION: 1408851

APPLICANT NAME: AQUA - RIDLEY AND PICKERING EAST FILTRA	REGION: NORRISTOWN	PROJECT RATING: 21
STREET ADDRESS: 762 LANCASTER AVE.	PWSID: 1460073	PROJ RANK: 54
CITY: BRYN MAWR, PA 19010-3402	FUND SOURCE: APPLICATION PENDING	PROJECT COST: \$1,350,000
COUNTY: CHESTER	MTGDATE:	PROJECT TYPE: TREAT

PROJ. DESCRIPTION Installation of air scour equipment to 8 filters at Ridley WTP and 6 filters at Pickering East WTP. New underdrains will also be provided to 6 filters at the Pickering plant. This work will improve filter performance at both facilities.

PROB. DESCRIPTION The plants are part of Aqua's "Main" System which serves people in the four counties surrounding Philadelphia. The proposed project will further insure safe water for a third of a million people. Adequate filtration is an important barrier to waterborne pathogens.

POPULATION: 1408851

LEGEND FOR PROJECT TYPE

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**PENNSYLVANIA INFRASTRUCTURE INVESTMENT AUTHORITY AND DEPARTMENT OF ENVIRONMENTAL PROTECTION
RECOVERY 2009**

DRINKING WATER PROJECT PRIORITY LIST

MARCH 14, 2009

APPLICANT NAME:	PHILADELPHIA CITY - WATER TREATMENT PL	REGION:	NORRISTOWN	PROJECT RATING:	21
STREET ADDRESS:	1101 MARKET STREET	PWSID:	1510001	PROJRANK:	55
CITY:	PHILADELPHIA, PA 19107	FUND SOURCE:	APPLICATION PENDING	PROJECT COST:	\$42,886,030
COUNTY:	PHIADELPHIA	MTGDATE:		PROJECT TYPE:	TREAT

PROJ. DESCRIPTION This project is comprised of 16 sub-projects totaling 19 individual contracts for improvement and rehabilitation work at the three water treatment plants and process supporting sites. These projects are traditional solutions accomplished through the most cost effective methods. This project will create 671 Pennsylvania resident jobs.

PROB. DESCRIPTION In addition to serving the City of Philadelphia, the water department also provides drinking water through interconnection with other water suppliers throughout the surrounding four counties, totally approximately 1.67 million people served.. Proper maintenace of the treatment facilities, especially relating to filtration is necessary in order to protect the public's health.

POPULATION: 1672000

LEGEND FOR PROJECT TYPE

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**PENNSYLVANIA INFRASTRUCTURE INVESTMENT AUTHORITY AND DEPARTMENT OF ENVIRONMENTAL PROTECTION
RECOVERY 2009**

DRINKING WATER PROJECT PRIORITY LIST

MARCH 14, 2009

APPLICANT NAME:	BROADHEAD CREEK REG AUTH. - WATER SY	REGION:	WILKES-BARRE	PROJECT RATING:	21
STREET ADDRESS:		PWSID:	4505504	PROJRANK:	56
CITY:	,	FUND SOURCE:	APPLICATION PENDING	PROJECT COST:	\$3,623,000
COUNTY:	MONROE	MTGDATE:		PROJECT TYPE:	TRAN, SRC

PROJ. DESCRIPTION The proposed improvements are as follows:(1) BCRA proposes the construction of a new source of supply (Well No. 3) with related appurtenances, treatment for disinfection and manganese sequestration, facility building, access road construction and related transmission and distribution main construction.(2) BCRA proposes the installation of approximately 3,000 LF of DI watermain and appurtenances along Glenbrook Rd. from Hickory Valley Rd. to Dreher Ave. to replace old deteriorated water mains in the road and across private properties. (3) BCRA proposes the replacement and relocation of an existing emergency interconnection meter pit and valving in the area of Stokes Avenue and King St. intersection. Also, the installation of new DI watermain is proposed along Crowe Rd., across Stokes Ave. and along King St. and Willow St. to allow for the relocation of meter pit. (4) BCRA proposes the replacement of approximately 2,820 LF of 6-inch watermain with 10-inch DI watermain and appurtenances along Phillips St. from Northgate Rd. to Lindbergh Ave. As well as replacing 500 LF of undersized 4-inch and 1-inch watermain along Manor Dr. with 8-inch DI watermain and appurtenances. (5) BCRA proposes the Interborough/Veteran's Bridge emergency interconnection repair which involves the repair of leaking joints and supports on the 8-inch emergency interconnection pipeline along Veteran's Bridge. (6) BCRA also proposes the replacement and upgrading of approximately 4,000 LF of existing transite, cast iron and galvanized steel waterline in South Stroudsburg with 8-inch DI watermain and appurtenances to alleviate chronic low pressure problems and improve fire flow conditions. This will also include the installation of valves, hydrants, and a pressure sustaining valve vault.

PROB. DESCRIPTION Need for supplemental water supply source to BCRA's existing supply. Old leaking and undersized water lines. Emergency interconnection needs replacement. Low pressure areas. Need to improve fireflow protection.

POPULATION: 4316

LEGEND FOR PROJECT TYPE

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**PENNSYLVANIA INFRASTRUCTURE INVESTMENT AUTHORITY AND DEPARTMENT OF ENVIRONMENTAL PROTECTION
RECOVERY 2009**

DRINKING WATER PROJECT PRIORITY LIST

MARCH 14, 2009

APPLICANT NAME: AQUA PA - NORTHEAST STORAGE IMPROVEM	REGION: WILKES-BARRE	PROJECT RATING: 21
STREET ADDRESS: 762 LANCASTER AVE.	PWSID: 2400012	PROJRANK: 57
CITY: BRYN MAWR, PA 19010-3402	FUND SOURCE: APPLICATION PENDING	PROJECT COST: \$2,510,950
COUNTY: LUZRENE	MTGDATE:	PROJECT TYPE: WS

PROJ. DESCRIPTION Paint , repair grout, replace appurtenances, as needed at the 5 tanks. Replace the waymart reservoir with a tank.

PROB. DESCRIPTION Replacement of rubber reservoir for Waymart--The Waymart rubber reservoir is over 30 years old and in deteriorating condition from long-term UV exposure. The cover has leaks and no longer drains. Their is risk of contamination from bird wastes. The storage tanks at oak hill, fawn lake forest, factoryville, saylorsburg and white haven are corroded and tank appurtenances need repair or replacement.Grout needs repair at foundations.

POPULATION: 1408851

APPLICANT NAME: LEHIGH COUNTY AUTHORITY - METER REPLA	REGION: WILKES-BARRE	PROJECT RATING: 21
STREET ADDRESS: 1053 SPRUCE ROAD, PO BOX 3348	PWSID: 3390073	PROJRANK: 58
CITY: WESCOSVILLE, PA 18106	FUND SOURCE: APPLICATION PENDING	PROJECT COST: \$4,475,000
COUNTY: LEHIGH	MTGDATE:	PROJECT TYPE: DS

PROJ. DESCRIPTION Project includes installation of 4,200 meters and backflow preventers in areas not anticipated to be affected by low pressures. This phase will also upgrade 3,100 ECR-type meters to radio-read meters in areas where the meters are not old enough to be replaced. Phase 2 will include installation of 1,800 meters and backflow preventers in areas likely to be affected by low pressures. The addition of a backflow preventer will further depress pressures below the Authority's requirement of 35 PSI at the meter setting under normal use conditions.

PROB. DESCRIPTION Approximately 6,000 residential water meters in the Authority's water system are older than 20 years and have reached the end of their useful life. Meter upgrades will allow for more efficient operation of the distribution system. Installation of the backflow prevention devices will protect the system from significant hazard.

POPULATION: 17000

LEGEND FOR PROJECT TYPE

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**PENNSYLVANIA INFRASTRUCTURE INVESTMENT AUTHORITY AND DEPARTMENT OF ENVIRONMENTAL PROTECTION
RECOVERY 2009**

DRINKING WATER PROJECT PRIORITY LIST

MARCH 14, 2009

APPLICANT NAME: EAST STROUDSBURG BORO - WATER SYSTE	REGION: WILKES-BARRE	PROJECT RATING: 21
STREET ADDRESS: 24 Analomink Street	PWSID: 1110111	PROJRANK: 59
CITY: East stroudsburg, PA 18301	FUND SOURCE: APPLICATION PENDING	PROJECT COST: \$1,214,000
COUNTY: MONROE	MTGDATE:	PROJECT TYPE: DS

PROJ. DESCRIPTION This project involves extensive waterline eplacements throughout the system to replace deteriorated, leaking, undersized watermains and to eliminate dead ends in the system. The borough proposes replacing the existing 6-inch watermains with 12-inch watermains along South Kistler to Prospect St. and with 10-inch mains from Prospect St. to Lackawana Ave. with all associated appurtenances. the Borough proposes extending the existing watermain on Elm St. to the capped 6-inch main installed by LTS to create a loop to eliminate dead ends in the system. The watermain along Lenox Ave. will be upgraded to a 12-inch main as well as in the area of Prospect St. from Ridgeway St. to East Brown St. including all necessary appurtenances such as hydrants, valves and connections.

PROB. DESCRIPTION The proposed project involves extensive waterline replacements throughout the system to replace old, deteriorated, leaking undersized watermains and to eliminate dead ends and improve fire protection capability of the system.

POPULATION: 3480

APPLICANT NAME: ADAMS TWP MA (BUTLER CO) STORAGE TAN	REGION: MEADVILLE	PROJECT RATING: 21
STREET ADDRESS: 170 HUTCHMAN RD.	PWSID: 5100141	PROJRANK: 60
CITY: MARS, PA 16046	FUND SOURCE: APPLICATION PENDING	PROJECT COST: \$2,384,685
COUNTY: BUTLER	MTGDATE:	PROJECT TYPE: WS

PROJ. DESCRIPTION Construction of a 2.0 Million Gallon (MG) storage tank to replace the existing Adams Ridge tank. The new proposed tank will be sized based on the estimated 20 year population growth. When the new proposed 2.0 MG tank is combined with the existing 1.0 MG North Tank, 3.0 MG storage will be available for use - approximately 5 days storage.

PROB. DESCRIPTION The new tank will replace the Authority's Adams Ridge Tank and solve existing hydraulic conditions that limit the use of the Adams Ridge Tank. The new tank will be an improvement over the existing Adams Ridge Tank (to be abandoned) since it will allow full use of the tank and will solve hydraulic issues. this project will allow the Authority to effectively operate and maintain their public water system facilities and will also provide for corrective action that is necessary to assure safe and potable water is continuously supplied to their users. And system will have sufficient storage.

POPULATION: 9692

LEGEND FOR PROJECT TYPE

SRC = SOURCE TRANS = TRANSMISSION SYSTE TREAT=TREATMENT WS = WATER STORAG DS = DISTRIBUTION SYSTEM

**PENNSYLVANIA INFRASTRUCTURE INVESTMENT AUTHORITY AND DEPARTMENT OF ENVIRONMENTAL PROTECTION
RECOVERY 2009**

DRINKING WATER PROJECT PRIORITY LIST

MARCH 14, 2009

APPLICANT NAME: HARMONY BORO WATER AUTH.- ELEVATED S	REGION: MEADVILLE	PROJECT RATING: 21
STREET ADDRESS: 217 MERCER STREET	PWSID: 5100042	PROJRANK: 61
CITY: HARMONY, PA 16037	FUND SOURCE: APPLICATION PENDING	PROJECT COST: \$1,346,710
COUNTY: BUTLER	MTGDATE:	PROJECT TYPE: STO

PROJ. DESCRIPTION Construction of a new 500,000 - gallon finished water steel elevated storage tank to replace the Borough's two existing , aged storage tanks.

PROB. DESCRIPTION The new tank will replace the two Authority's aged storage tanks and provide additional storage for domestic demands and fire protection for existing and future customers. The project will improve the system pressure and allows service to Zelenople Boro if needed it.

POPULATION: 1373

APPLICANT NAME: STEELTON BORO AUTH - WATER DISTRIBUTI	REGION: HARRISBURG	PROJECT RATING: 21
STREET ADDRESS: 808 NORTH 2ND STREET	PWSID: 7220036	PROJRANK: 62
CITY: STEELTON, PA 17113	FUND SOURCE: APPLICATION PENDING	PROJECT COST: \$9,421,834
COUNTY: DAUPHIN	MTGDATE:	PROJECT TYPE: DS, PS

PROJ. DESCRIPTION The project includes 32,000 ft of distribution replacement along with three interconnections and at least two pump stations.

PROB. DESCRIPTION The system as very old distribtution pipes some over 100 years old which must be replaced. Project will provide newer distribution system for better service and supply to customers.

POPULATION: 5858

APPLICANT NAME: AQUA PA - TREVORTON WATER STORAGE TA	REGION: WILLIAMSPORT	PROJECT RATING: 21
STREET ADDRESS: 762 LANCASTER AVE	PWSID: 4490024	PROJRANK: 63
CITY: BRYN MAWR, PA 19010-3402	FUND SOURCE: APPLICATION PENDING	PROJECT COST: \$1,150,900
COUNTY: NORTHUMBERLAND	MTGDATE:	PROJECT TYPE: WS, TRAN

PROJ. DESCRIPTION The project includes replacement of the Trevorton water storage tank and replacement of approximately 2,500 feet of 6- and 8-inch suction main with 12-inch main

PROB. DESCRIPTION deteriorated water storage tank which is too small and low suction pressure at booster pump station. New tank and main will improve water pressure in the system and system will have adequate water storage.

POPULATION: 1408851

LEGEND FOR PROJECT TYPE

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DRINKING WATER PROJECT PRIORITY LIST

MARCH 14, 2009

APPLICANT NAME: ERIE CITY WTR AUTH - JORDEN TO KOEHLER	REGION: MEADVILLE	PROJECT RATING: 21
STREET ADDRESS: 340 WEST BAYFRONT PARKWAY	PWSID: 6250028	PROJRANK: 64
CITY: ERIE, PA 16507	FUND SOURCE: APPLICATION PENDING	PROJECT COST: \$2,181,100
COUNTY: ERIE	MTGDATE:	PROJECT TYPE: DS

PROJ. DESCRIPTION Installation of 14,800 feet of 12" D.I pipes from Jordoan Road (Harborcreek) to Koehler Road and Corvette Drive (millcreek).

PROB. DESCRIPTION Insufficient pressure to the existing customers and future development within Millcreek Twp. Residents in Harborcreek, Greene, and unserved portions of Millcreek Townships will have access to public water and will eliminate their inadequate and nonpotable sources of supply.

POPULATION: 47250

APPLICANT NAME: PIKE TOWNSHIP MA - MCNAUL ST. RESERVOI	REGION: WILLIAMSPORT	PROJECT RATING: 21
STREET ADDRESS: P.O. BOX 27	PWSID: 6170013	PROJRANK: 65
CITY: CURWENSVILLE, PA 16833	FUND SOURCE: APPLICATION PENDING	PROJECT COST: \$1,344,000
COUNTY: CLEARFIELD	MTGDATE:	PROJECT TYPE: WS

PROJ. DESCRIPTION The project will includes replacement of the existing reservoir with an above-ground steel tank, in addition to replacing the water mains and valves in the vicinity of the reservoir.

PROB. DESCRIPTION The McNaul Street Reservoir is an in-ground concrete and stone masonry 1 MG finished water storage tank. The aging reservoir is in an advanced state of deterioration and in need of replacement. The age and deterioration of the entire storage system, to include the veritable spaghetti works of old water mains and valves that control flow into and out of the reservoir, have created on-going issues associated with maintaining the reservoir and distribution system.

POPULATION: 4500

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