

UNITED STATES VIRGIN ISLANDS

DEPARTMENT OF PLANNING & NATURAL RESOURCES DIVISION OF ENVIRONMENTAL PROTECTION



TERRITORIAL DRINKING WATER CAPITAL IMPROVEMENTS GRANTS PROGRAM

AMENDMENT No. 3 INTENDED USE PLAN 2011

March, 2014

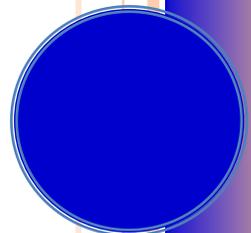


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INTRODUCTION

The Safe Drinking Water Act (SDWA) Amendments of 1996 authorized a Drinking Water State Revolving Fund (DWSRF) to assist publicly owned and privately owned community public water systems (PWS) and nonprofit non-community PWS with financing infrastructure improvements. These infrastructure improvements must be able to achieve and maintain a PWS's compliance with the SDWA requirements and further the public health protection objectives of the SDWA. Through the DWSRF, grants are awarded to states and territories on an annual basis and are made available to eligible public water systems. In the U.S. Virgin Islands the funds are provided to eligible systems as a grant.

The DWSRF grant awards are administered by the U.S. Virgin Islands Department of Planning and Natural Resources (DPNR)/Division of Environmental Protection (DEP) through the Drinking Water Capital Improvement Grant (DWCIG) program. DPNR has applied for and received federal grant monies totaling \$28,503,800 for fiscal years (FY) 1997 through 2011. Six (6) Intended Use Plans (IUPs) have been developed for the federal funds provided by the DWSRF. Each IUP describes how the Territory proposes to use the available money for expenditures associated with projects and administrative/technical assistance. The non-project expenditures provide for activities that are not construction related and include costs associated with the administration of the DWCIG program and the provision of technical assistance to small systems. Project expenditures involve the costs associated with the planning, design, materials, equipment, and construction of the capital improvement projects.

DPNR/DEP may amend an IUP to include a project requested by a public water system, as needed to protect public health or to meet emergency needs. The IUP may also be amended to include projects listed on preceding and subsequent IUPs that are deemed "ready to proceed" and require additional funding. Additionally, if available monies are not used by the projects identified above the funding line on a Project Priority Lists (PPL) within a specified time, those funds will be made available to the next highest ranked project listed below the funding line or to projects amended to the PPL that are deemed ready to proceed.

This document represents DPNR/DEP's third amendment to the IUPs of the Territory's Drinking Water Capital Improvement Grant. Specifically, the amendments made are for the 2011 IUP and primarily entail the increase or decrease of the assistance requests for several projects listed on the PPLs. The funding revisions are mainly due to revised cost estimates, negotiated bid prices or increased construction costs due to change orders or amendments to an original scope of work. The amendments also include the withdrawal or bypass of projects on the PPLs. The amendments were made pursuant to federal guidelines and the administrative procedures established in each approved IUP.

I. REVISED FUNDING ALLOCATIONS FOR SMALL, MEDIUM, AND LARGE SYSTEMS' PROJECTS

In keeping with §1442(e) of the SDWA, DPNR/DEP provides technical and financial assistance to small and medium size public water systems through the DWCIG. In order to ensure that small and medium size public water systems are able to participate in the VIDWCIG program,

the funding percentage for small and medium size water system (population served is less than 10,000) has been increased from 35% to 48% of the FY2011 project funds. The funding percentage for large size water systems (population served is more than 10,000) is reduced from 65% to 52% of the project funds. ***The funding allocations were revised due to project(s) being bypassed/withdrawn and as a result of significant changes in a project cost due to a revised cost estimate and the negotiated bid price.***

After all the small and medium size public water system projects have been funded any remaining funds from the 48% allocated for small and medium systems can be used to fund capital improvement projects for large systems. Likewise, after all large size projects have been funded any remaining funds from the 52% allocated for large systems can be used to fund additional capital improvement projects for small and medium size systems.

The grant allocations for the FY2011 project funds are revised as follows:

DRINKING WATER CAPITAL IMPROVEMENTS GRANT ALLOCATIONS

Grants Available		FY2011
	Project Funds Available	\$4,576,860.00
<i>Small and Medium Projects</i>	<i>(48% of Project Funds)</i>	\$2,217,238.00
<i>Large Projects</i>	<i>(52% of Project Funds)</i>	\$2,359,622.00

II. REVISED PROJECT PRIORITY LIST/IUP PROJECT ASSISTANCE AMOUNTS

An increase in funding has been requested for one (1) project listed on the small & medium system PPL. This request is a result of an increased cost estimate and the final negotiated bid price. All revised funding are indicated on Tables 1, and 2. Projects with an assistance amount of zero dollars were either withdrawn or bypassed by the public water system and/or DPNR.

The assistance amount for the following project listed on the **2011 IUP Small & Medium System PPL** has been increased (**Grant Agreement No. FS98235212**):

- **Project Rank No. 4:** Virgin Islands Housing Authority (VIHA), Oswald Harris Court (*Renovate Pump Room; Repair cistern; Replace water transmission lines; Replace pumps & related piping; Repair/Replace pressure tanks and related valves; Replace filtration system; Install UV System.*) has been increased from \$284,500.00 to **\$1,560,640.00**. After finalizing drawings and specifications a significant increase in the estimated project cost became apparent. The project scope of work was also updated to include: *Refurbish existing well and install a reverse osmosis unit.* The final negotiated bid cost for the project is \$1,538,600.00. This amount plus the planning & design cost of \$22,040.00 has resulted in the final project cost of \$1,560,640.00.

Justification: Project Rank Nos. 1 2, & 3 were all bypassed by VIHA, owner of the

PWS/Projects, consequently making additional funds available to other projects listed on the small & medium system PPL. Priority was given to project rank No. 4 because it has been deemed “ready to proceed” and more importantly provides significant improvements in public health and major water conservation issues.

III. PROJECT ADDITIONS

No new projects are added to the **2011 IUP**.

IV. PROJECT WITHDRAWAL OR BYPASS

Any project that is not ready to proceed may be bypassed. A project will be determined as “ready to proceed” upon the submission of a complete grant application package. Upon approval of the complete grant application, a Subaward Agreement is implemented between DPNR and the system. If construction of the project does not begin within six months of execution of the agreement, the project may also be bypassed. Bypassed projects may lose their grant allotment to other projects listed below the funding line in the order indicated on the Project Priority List.

Any of the following circumstances will be used to bypass a project on the PPL.

1. The project is for a system that is identified as a Significant Non-Complier (SNC) under the Safe Drinking Water Act and the project will not ensure compliance.
2. The project has had a major change in scope.
3. The grant application, project feasibility report, environmental planning documentation, and other applicable planning and construction documentation has not been submitted to DPNR/DEP in a timely manner as indicated above.
4. The project is unable to proceed in a timely manner.
5. The project is withdrawn by the applicant.

The projects identified below are bypassed or withdrawn from the Project Priority List (PPL) of the 2011 IUP. The “Estimated Assistance Requests” for all withdrawn or bypassed projects are listed as zero dollars.

- **2011 IUP Small & Medium System PPL:** *Nos. 1, 2 & 3* [Bypassed by PWS]
- **2011 IUP Small & Medium System PPL:** *Nos. 10, & 11* [Withdrawn; PWS Inactive]
- **2011 IUP Large System PPL:** *No. 3* [Withdrawn by PWS]

V. REVISED PROJECT PRIORITY LISTS

Table 1: Revised FY2011 Intended Use Plan Small & Medium System PPL						
Rank No.	Points	Small & Medium PWS	Pop	Project Description	Estimated Assistance Amount	Green Project Reserve Amount
1	895	Tutu High Rise Lower	809	Renovate Pump Room; Repair cistern; Replace water transmission lines; Replace pumps & related piping; Repair/Replace pressure tanks and related valves; Replace filtration system; Install UV System.	\$0.00	
2	895	Bovoni Apartments I (Bldgs. ABC)	581	Renovate Pump Room; Repair cistern; Replace water transmission lines; Replace pumps & related piping; Repair/Replace pressure tanks and related valves; Replace filtration system; Install UV System.	\$0.00	
3	885	Bovoni Apartments II (Bldgs. DE)	371	Renovate Pump Room; Repair cistern; Replace water transmission lines; Replace pumps & related piping; Repair/Replace pressure tanks and related valves; Replace filtration system; Install UV System.	\$0.00	
4	885	Oswald Harris Court	277	Renovate Pump Room; Repair cistern; Replace water transmission lines; Replace pumps & related piping; Repair/Replace pressure tanks and related valves; Replace filtration system; Install UV System; <i>Refurbish existing well and install a reverse osmosis unit.</i>	\$1,560,640.00	
5	660	Cowpet Bay West_1	250	Replace R/O Plant & install new UV system	\$188,613.80	
6	660	Dorothea Beach Condos	90	New R/O, UV, pressure tanks, filters, distribution system improvements	\$219,238.30	
7	535	Saman Villas	200	Install R/O Plant, related piping & POU-R/O & UV	\$248,745.00	
Small & Medium System Funding Line					\$2,217,237.10	
8	485	Cowpet Bay West_2	250	Install sanitary access hatches for cisterns; Install new down spouts with bypass device	\$52,900.00	
9	385	Cowpet Bay East	300	Repair Cistern	\$39,476.05	
10	385	Good Hope School	475	Install new storage facility	\$0.00	
11	170	Bay Garden Condos	400	Replace filters, POU-R/O & pumps	\$0.00	
12	100	Mahogany Run Golf Course	500	Replacing & Rerouting 4" distribution pipe	\$34,615.00	
13	90	Cowpet Bay East	30	Replace aging supply lines	\$15,410.00	

Rank No.	Points	Large PWS	Pop	Location	Project Description	Estimated Assistance Amount	Green Project Reserve Amount
1	825	WAPA St. Croix	35000	St. Croix	Install SCDA system to detect leaks & increase efficiency of pumps	\$345,000.00	\$345,000.00
2	*425	WAPA St. Croix	35000	St. Croix	Upgrade approximately 35% of the existing manually read meters to the Automated Meter Reading system (Green Technology)	\$634,299.00	\$634,299.00
3	600	WAPA-St. Thomas	3500	Altona & Welgunst	Replace aging cast iron pipe w/ C-900 PVC pipe	\$0.00	
4-1	550	WAPA St. Croix	5,250	Christiansted Town	Replace 12,200 ft of 4" & 6" aging ductile iron pipes (41% Funding)	\$968,256.63	
Large System Funding Line						\$1,947,555.63	\$979,299.00
4-2	550	WAPA St. Croix	5,250	Christiansted Town	Replace 12,200 ft of 4" & 6" aging ductile iron pipes (59% Funding)	\$1,380,767.87	
5	530	WAPA St. Croix	1,750	Frederiksted Town	Replace 14,800 ft of 6" aging ductile iron pipes	\$1,989,595.45	
6	530	WAPA St. Thomas	1500	Contant Midtown	Replace 4,760 ft of 4" aging cast iron pipes	\$1,722,240.00	
7	530	WAPA St. Croix	1,750	Cliffton Hill	Replace 13,000 ft of 4" aging ductile iron pipes	\$2,340,825.00	
8	530	WAPA St. Croix	1,750	Campo Rico	Replace 2,080 ft of 8" & 17,140 ft of 6"aging ductile iron pipes	\$2,456,080.88	
9	530	WAPA St. Croix	1,750	Hannah's Rest	Replace 20,220 ft of 6" aging ductile iron pipes	\$2,540,390.25	
10	520	WAPA St. Thomas	500	Mahogany Estate	Replace 2,500 ft of 6" aging cast iron pipes	\$961,553.27	
11	520	WAPA St. Thomas	500	Blackbeard Hill	Replace 2,560 ft of 4" aging cast iron pipes	\$1,101,352.70	
12	510	WAPA St. Thomas	50	Altona	Replace 700 ft of 6" aging cast iron pipes (Altona Phase III)	\$381,248.00	
13	475	WAPA St. Croix	35,000	St. Croix	Rehab interior & exterior of 3 Concrete Tanks (Anna's Hope, Kingshill, Mountain)	\$264,500.00	
14	475	WAPA St. Thomas	29000	St. Thomas	Water Tank #2 Rehabilitation (10.5 MG)	\$3,538,665.00	
15	425	WAPA St. Thomas	4200	St. John	Replace failed 500K gal. water tank liner; Install altitude valve system (St. John)	\$245,916.00	
16	425	WAPA-St. Croix	35,000	St. Croix	Storage Tank Telemetry	\$79,350.00	

Table 2: Revised FY2011 Intended Use Plan Large System PPL							
Rank No.	Points	Large PWS	Pop	Location	Project Description	Estimated Assistance Amount	Green Project Reserve Amount
17	200	WAPA-St. Croix	10,000	Sion Farm to Juan Luis Hospital Loop	Replace 3,000 ft of water lines from Sion Farm to Juan Luis Loop	\$351,265.26	
18	180	WAPA-St. Croix	35,000	Sunny Isle to Ruby & Strawberry	Replace 6,500' of aging 10" ductile iron pipe	\$429,085.13	
19	180	WAPA-St. Croix	35,000	Loop Strawberry to Kingshill	Install 10,500' of 12" PVC pipe	\$586,564.40	
20	180	WAPA-St. Croix	35,000	Richmond to Princesse & St. John	Replace 16,000' of aging ductile iron pipes with 10" C900 PVC pipe	\$684,314.40	
21	180	WAPA-St. Croix	35,000	Contentment to Kingshill	Replace 30,000' of aging 10" ductile iron pipe	\$1,698,090.00	
22	180	WAPA-St. Croix	35,000	Kingshill to Stony Ground	Replace 38,000' of aging 10" ductile iron pipe	\$2,150,914.00	
23	180	WAPA St. Croix	35000	St. Croix	Renovate the Richmond Standpipe & Pump Station Building	\$149,500.00	
24	110	WAPA-St. Croix	1,900	Frederiksted	Replace aging infrastructure in distribution system	\$1,091,062.50	
25	110	WAPA-St. Croix	1,000	Estate Princesse	Replace 7,750 ft of water lines in the Princesse community	\$1,891,777.60	
26	100	WAPA-St. Croix	775	Estate Profit/Clifton Hill	Replace aging infrastructure in distribution system	\$304,175.00	
27	100	WAPA-St. Croix	500	Connector Road	Replace 6,500 ft. of water lines in Clifton Hill/Profit	\$1,620,016.21	

**Green Infrastructure project placed above the funding line to ensure compliance with the GPR requirements*