



GOVERNMENT OF  
**PUERTO  
RICO**



Puerto Rico  
Aqueduct and  
Sewer Authority

# **FAAS<sub>t</sub> WORKPLAN**

**Puerto Rico Aqueduct and Sewer Authority (PRASA)**

**Post-Fixed Cost Estimate Obligation Workplan**

**FEMA-4339-DR-PR**

**FEMA Accelerated Award Strategy (FAAS<sub>t</sub>)**

**Eighth Revision- April 2023**

## **DISCLOSURE**

The Puerto Rico Aqueduct and Sewer Authority (PRASA), as part of this Post-Fixed Cost Estimate Obligation Workplan under the FEMA Disaster Number 4339-DR, includes an infrastructure investment strategy for the selection of projects under the PRASA's sixteen asset categories. The estimated amount assigned to each category and/or project is exclusively for PRASA's budget purposes. The cost estimate included in each category and/or project necessarily does not represent the final cost of the project.



## NOMENCLATURE

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AMWA	Association of Metropolitan Water Agencies
ASTM	American Society of Testing and Materials
AWIA	America's Water Infrastructure Act of 2018
AWWA	American Water Works Association
AAA	Puerto Rico Aqueduct and Sewer Authority
B	PRASA Building (s)
BBA	2018 Bipartisan Budget Act
CIP	Capital Improvement Program
COR3	Central Office of Recovery, Reconstruction, and Resiliency
CWA	Clean Water Act
CDBG-DR	Community Development Block Grant Disaster Recovery
D	Dam (s)
DOH	Department of Health
D & T -WL	Distribution and Transmission Water Line (s)
EQB	Environmental Quality Board
FAASt	FEMA Accelerated Award Strategy
FEMA	Federal Emergency Management Agency
FY	Fiscal Year (PR Fiscal Year from July to June)
GIS	Geographical Information System
Government	Government of Puerto Rico
Governor	Governor of Puerto Rico
HUD	Department of Housing and Urban Development
ICC	International Building Code
KPIs	Key Performance Indicators
kWh	Kilowatt-Hours
MGD	Million Gallons per Day
NFPA	National Fire Protection Association
NPS	National Primary Standards



NSF	National Standards Foundation
OMB	Puerto Rico Office of Management and Budget
O&M	Operations and Maintenance
OO	Ocean Outfalls
PPTD	Projects Pending to be Determined
PR	Puerto Rico
PRASA	Puerto Rico Aqueduct and Sewer Authority
PRDH	Puerto Rico Department of Health
PREPA	Puerto Rico Electric Power Authority
PRIFA	Puerto Rico Infrastructure Finance Authority
PROMESA	Puerto Rico Oversight, Management, and Economic Stability Act
PSI	Pounds per Square Inch
PWSID	Potable Water System Identification
Regions	Operational Regions
R	Reservoirs
RD	Reservoirs Dredging
RFQ	Request for Qualification
RFP	Request for Proposal
RWI	Raw Water Intake
RWW	Raw Water Well (s)
SDWA	Safe Drinking Water Act
System	Authority's Public Water Supply and Wastewater System
SOP	Standard Operating Procedure
SOW	Scope of Work
STS	Sludge Treatment System
T	PRASA Telemetry System
TSL	Trunk Sewer Line (s)
US	United States of America
USDA	United States Department of Agriculture



USEPA	United States Environmental Protection Agency
WM	Water Meter (s)
WST	Water Storage Tank (s)
WTP	Water Treatment Plant (s)
WPS	Water Pump Station (s)
WWTP	Wastewater Treatment Plant (s)
WWPS	Wastewater Pump Station (s)

**SYMBOLS**

\$	Dollar
%	Percent
Q	Quarter



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## Chapter 1 Executive Summary

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The 2017 hurricane season caused unparalleled devastation in Puerto Rico. During September of that year, Puerto Rico experienced a Category five (5) and Category four (4) hurricane (Irma and María, respectively). Hurricane María was the most devastating natural disaster to hit the island since Hurricane San Felipe made landfall nine decades ago in 1928. Since that time, the population has expanded, from 1.5 Million residents to a current population of 3.4 Million.

Category five (5) Hurricane Irma, one of the strongest recorded storms in the Atlantic, affected Puerto Rico on September 6, 2017. Due to its passing through the northern part of the island, the Puerto Rico Aqueduct and Sewer Authority (PRASA) suffered damages to water treatment facilities and other structures. Over one million customers lost electric power, and over one-third of PRASA's customers lost drinking water service.

Just a few days later, on September 20, Puerto Rico felt the ruthless force of Category four (4) Hurricane Maria, the most massive disaster that the Island has endured, impacting all PRASA's infrastructure severely across the island. The flooding and loss of the electrical power system resulted in a shutdown on most of the island's water supply and wastewater treatment plants and pumping stations. Sewage waters contaminated the streets, rivers, and sea, posing an immediate threat to the environment, public health, and safety. PRASA acted diligently to promptly restore the water and wastewater service using both internal and external resources.

For projects necessary to build back PRASA's System to pre-hurricane conditions and improve resiliency to potential future events, on January 5, 2021, the Federal Emergency Management Agency (FEMA) announced the obligated grant for PRASA for **\$4.2 Billion**. FEMA reserved the obligated funds to repair, improve or replace PRASA's infrastructure as per FEMA's Public Assistance Alternative Procedures, according to Section 428 of the Robert T. Stafford Disaster Relief and Emergency Assistance Act and in compliance with the US Congress 2018 Bipartisan Budget Act (BBA). PRASA requires to provide safe water and wastewater service and supply to the 1.2 million active clients through the following infrastructure:

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- Fifty-one (51) Wastewater Treatment Plants (WWTP)
- One hundred and fourteen (114) Water Treatment Plants (WTP)
- PRASA buildings
- Eight (8) Dams
- Around three thousand eight hundred (3,800) ancillary facilities (1,560 Tanks; 1,977 Pump Stations; 249 Water Wells)
- Over 20,000 miles of potable water and wastewater collection pipes

As a requirement associated with this funding obligation, FEMA and the Central Office of Recovery, Reconstruction, and Resiliency (COR3) required PRASA to submit a work plan, called PRASA's FAASt Workplan, within 90 days of the funding obligation date. This plan would outline PRASA's proposed investments in Puerto Rico's water systems over the next ten years. Also, PRASA is required to update and resubmit this work plan to COR3 and FEMA every 90 days after the initial submission.

This FAASt Workplan provides an overview of PRASA's infrastructure investment strategy; the context for the selection of projects included in the plan; a prioritized list of these proposed infrastructure projects; the expected benefits, projected costs, key project milestones, the estimated time horizon for each project; and a brief overview of PRASA's approach to managing the execution of this program and the group of projects described herein.

This document addresses COR3 and FEMA's requirement to plan a list of projects for the obligated funds. Projects in this plan will include funding from the FEMA Accelerated Award Strategy (FAASt) and 404 hazard mitigation programs and HUD Community Development Block Grant Disaster Recovery (CDBG-DR) program.

## **1.1 The Investment Strategy Overview**

Several investment focus areas based on work previously completed by PRASA and developed by PRASA's team and other stakeholders such as FEMA and COR3 guided PRASA's investment strategy for this FAASt Workplan.



PRASA leveraged the information in each area and performed an additional evaluation to guide the project’s selection in this FAASt Workplan.

PRASA selected these five (5) foci areas to define the intent of the projects in this plan. Table 1-1 summarized the five (5) investment focus areas and a brief description of each one.

**Table 1-1: List of Investment Focus Areas**

Focus Areas	Brief Description
Public Health & Environmental Protection	Ensure to provide a safe and reliable supply of drinking water and treatment of wastewater, complying with federal environmental regulations to safeguard the population’s health and the island’s environment while guaranteeing an affordable service for all customers.
Codes and Industry Standards	Rehabilitate, improve, or restore the water system following Codes and Industry Standards, including the applicable PRASA design standards, contained in the <i>Reglamento de Normas de Diseño de la AAA</i> .
Reliability and System Resiliency	Ensure the required investment in necessary technology and infrastructure to restore the system, enhance resiliency, and establish an efficient and safe water system that provides customer reliability.
Hazard Mitigation	Ensure to provide long-term solutions that reduce the PRASA’s infrastructure impact of future events and minimize disaster losses and system vulnerability.
Modernization and Maintenance	Modernize and maintain PRASA’s infrastructure to optimize its operational efficiency, protect public health, safeguard the environment, and promote continued economic development.

## 1.2 Asset Categories and Prioritization Approach

To develop this plan, PRASA’s team examined more than 1,400 possible projects. Focused on the five (5) investment focus areas mentioned above to set the safe, reliable, and efficient water and wastewater treatment services, PRASA list of projects has been updated as follows:

- Initial FAASt Workplan submittal list, 136 projects
- Second revision, list updated to 141 projects



- Third revision, list of projects updated to 180
- Fourth revision , list of projects increased to 196
- Fifth and Six revisions, projects updated to 197
- Seventh revision, list of projects updated to 253
- Eighth revision, list of projects remains the same as the Seventh revision, 253

The 253 projects in the plan are still organized into sixteen distinct asset categories. PRASA based the plan's asset categories on the categorization approach used to reach the FAASt funding obligation. Table 1-2 summarized the asset categories list.

**Table 1-2: Asset Categories List**

<b>Asset Category</b>	<b>Brief Description</b>
<b>Water Treatment Plants (WTP)</b>	114 WTP Islandwide, including the Raw Water Intakes (RWI). One (1) WTP was closed after Hurricane María.
<b>Wastewater Treatment Plants (WWTP)</b>	51 WWTP Islandwide
<b>Wastewater Pump Stations (WWPS)</b>	799 WWPS Islandwide
<b>Water Pump Stations (WPS)</b>	468 WPS Islandwide
<b>Water Storage Tanks &amp; Water Pump Stations (WST &amp; WPS)</b>	808 WPS Islandwide
<b>Water Storage Tanks (WST)</b>	997 WST Islandwide
<b>Ocean Outfalls (OO)</b>	12 Ocean Outfalls Island wide
<b>Dams (D)</b>	8 Dams Islandwide operated by PRASA
<b>Reservoirs (R)</b>	8 Reservoir Islandwide
<b>Raw Water Wells (RWW)</b>	269 Raw Water Wells Islandwide
<b>Buildings (B)</b>	91 PRASA Buildings Islandwide
<b>Distribution and Transmission Water Lines (D &amp; T -WL)</b>	Estimated amount of 15,148 Miles of Water Lines Islandwide in diameters ranging from 1” to 84” and in a wide variety of materials.



Asset Category	Brief Description
Water Meters (WM)	872,596 each of Water Meters Islandwide part of the Distribution and Transmission Water Lines System.
Trunk Sewer Lines Islandwide (TSL)	Estimated amount of 5,994 Miles of Sewer Pipes Islandwide in diameters ranging from 4” to 90” and a wide variety of materials.
Telemetry (T)	Telemetry System along with PRASA Islandwide facilities: WTP, WWTP, WWPS, WPS, and Wells.
Projects Pending to be Determine (PPTD)	PRASA will evaluate other projects covered under the FAASt funding obligation. The projects are going to be determined in the near future.

PRASA’s team identified the projects for inclusion in the FAASt Workplan, prioritized the projects, and developed the estimated sequencing for FEMA submission, approval, and subsequent execution. Each project in the FAASt Workplan includes a brief project description and cost estimate. PRASA’s team also listed each project into one of the three-time horizons: near-term (i.e., 2021-2023), mid-term (i.e., 2024-2027), and long-term (i.e., 2028 and beyond).

Four (4) major standard milestones were defined and standardized across all projects in the FAASt Workplan. PRASA's team estimated the timing for each major milestone for each project.

The four (4) standardized major milestones are:

- Project expected to commence 30% architecture and engineering work
- Project expected submission to COR3 and FEMA for review and approval
- Project expected to commence construction/implementation
- Project expected to commence FEMA and COR3 closeout activities



PRASA assigned projects to a time horizon based on when the project's first major milestone starts. The prioritization methodology used the following criteria:

- Currently out of service or inoperative infrastructure
- Safety, environmental, and water quality standards requirements
- System operation needs and constraints
- Impacts to reliability performance, such as extreme droughts
- Severe storm hazard mitigation



### 1.3 Plan Overview

PRASA's FAASt Workplan includes approximately **\$4.2 Billion** in investment needed to rehabilitate and improve Puerto Rico's water and wastewater system, most of which qualifies for FEMA funding under its 428 and 404 hazard mitigation programs. FEMA has under evaluation several projects submitted by PRASA under the 404 funds, and currently the Phase 1 for the following three (3) projects already received approval. The 404 approved projects until this revision are the following:

- Project # 4339-0046- South Region Water Supply System Improvement (Bauta Tunnel)- Phase 1, Approved Amount \$ 26,416,007.71. Total Estimated Cost of the Project is \$245,406,750.22.
- Project # 4339-0019- Enrique Ortega Water Treatment Plant Raw Water Intake Power Generators Phase 1, Approved Amount \$661,523.70. Total Estimated Cost of the Project is \$ 28,645,725.14.
- Project # 4339-0020- Salinas Water Supply System Project Phase 1, Approved Amount \$2,740,874.20. Total Estimated Cost of the Project is \$ 44,138,250.01.

Also, PRASA will submit proposals for 406 funding with its applicable 428 proposals. FEMA's 406 programs are designed to provide funding to rebuild infrastructure exceeding industry standards to prevent damage from future disaster events, referred to as the "hardening" of assets. In alignment with COR3 and FEMA's process, PRASA will submit proposals for 406 funding with each of its applicable 428 project submittals.

Currently, PRASA already received approval under the 406 funds for the following projects:

- Project # 180626- FAASt Repair of Geosynthetic Membranes in Lago Regulador in Isabela- Approved Amount \$ 6,913,876.71.
- Project # 180814-FAASt Rehabilitation of 42" Trunk Sewer Line from PR-684 to the South Part of Barceloneta WWTP-Approved Amount \$17,102,872.73.
- Project #- FAASt Rehabilitation of Enrique Ortega Water Treatment Plant -Approved Amount \$2,330,560.24.



**Table 1-3** summarized the plan by asset categories and funding source, deducting the amount of **\$133.7 Million** corresponding to insurances, as described in the approved FAASt Project Number 144184, MAAA200 PRASA Islandwide.

**Table 1-3: Plan Summary by Asset Categories and Funding Source List**

Asset Category	FEMA 428(\$M)	FEMA 404 (\$M)	FEMA 406(\$M)	Estimated Total Cost
WTP	\$1,506.41	\$3.40	\$9.24	\$1,519.05
WWTP	\$771.41	\$0.00	TBD	\$771.41
WWPS	\$116.01	\$0.00	TBD	\$116.01
WPS	\$61.38	\$0.00	TBD	\$61.72
WST & WPS	\$1.73	\$0.00	TBD	\$1.73
WST	\$76.35	\$0.00	TBD	\$77.95
RWW	\$19.53	\$0.00	TBD	\$19.53
B	\$68.83	\$0.00	TBD	\$68.83
OO	\$188.76	\$0.00	TBD	\$188.76
D	\$27.74	\$0.00	TBD	\$27.74
R	\$165.52	\$26.42	TBD	\$191.94
D&T-WL	\$203.06	\$0.00	TBD	\$203.06
WM	\$330.00	\$0.00	TBD	\$330.00
TSL	\$424.16	\$0.00	\$17.10	\$441.26
T	\$5.00	\$0.00	TBD	\$5.00
PPTD	\$103.40	\$0.00	TBD	\$103.40
<b>Total</b>	<b>\$4,069.29</b>	<b>\$29.82</b>	<b>26.34</b>	<b>\$4,127.39</b>

It is important to note that all cost estimates in this document are “class 5” estimates. A class 5 cost estimate is defined as an estimate with an accuracy range from 50% below to 100% above the actual final project cost and is prepared at an early stage in the project development process. Leading industry practice is to revise estimates to become more accurate as engineering design progresses and project requirements are solidified.





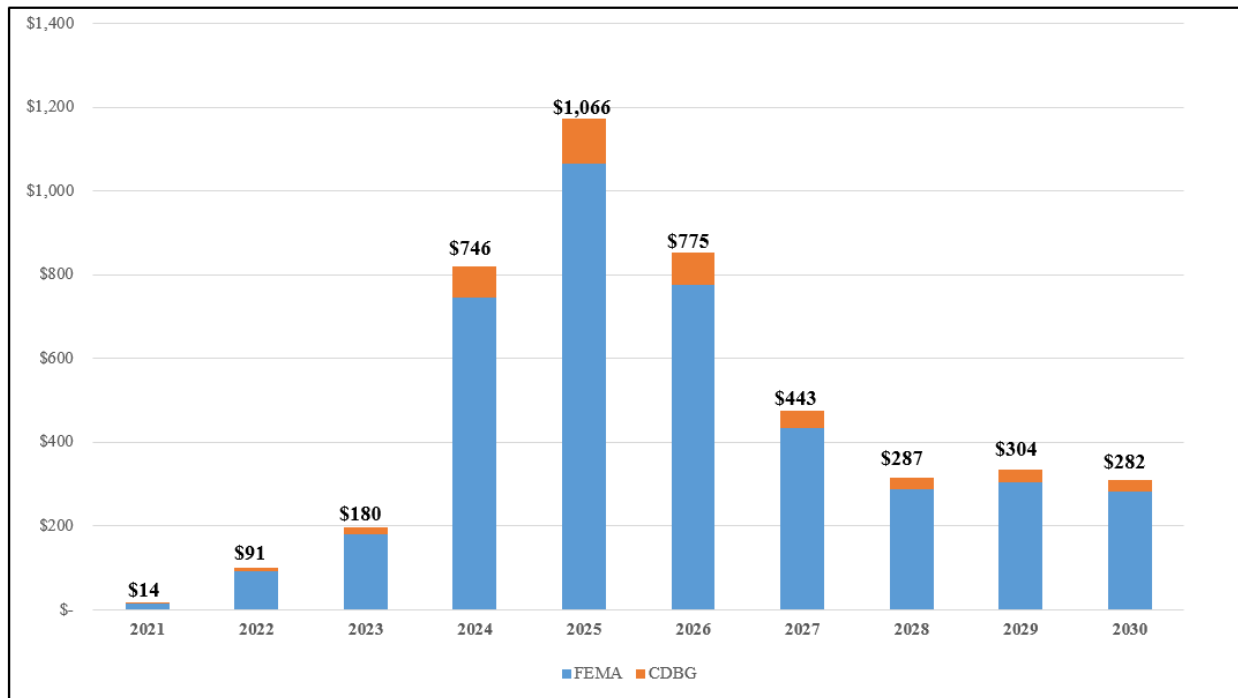
In addition to the funding sources discussed above, PRASA will seek to leverage funds from Community Development Block Grant Disaster Recovery (CDBG-DR) for the 10% cost-share allocation.

Forecast spend projections for each project are scoped to include all project activities from the point at which the project commences initial architectural and engineering work through the completion of project closeout activities. Several projects within the FAASt Workplan extend throughout the entire 10-year period.

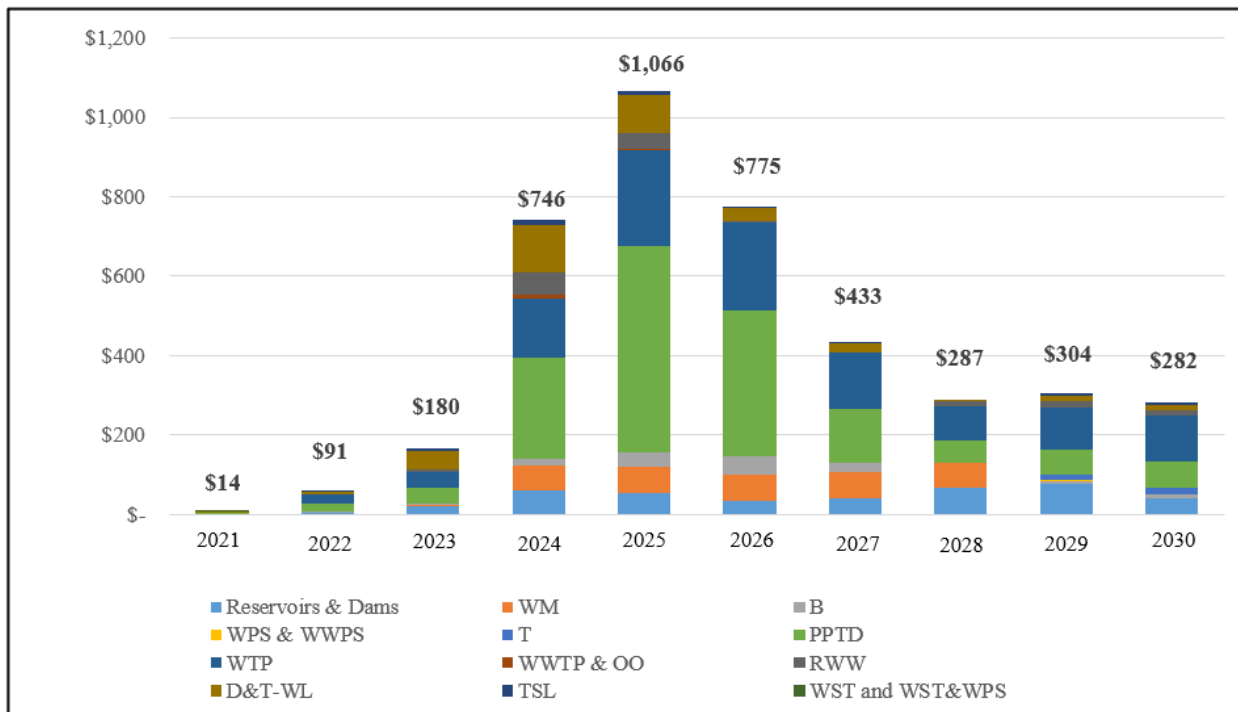
Figure 1 1 illustrates the projected cash flow for the next ten years and the cost-share allocation needs by the Fiscal Year (FY), which starts in July of each year and ends in June of the next year .



**Figure 1-1: Projected Cash Flow and Cost-Share Allocation Needs by FY (\$ Million)**



**Figure 1-2: Projected Cash Flow by Asset Category by Fiscal Year (\$ Million)**



As discussed above, 253 projects were identified in this revision, prioritized, and included in the FAASt Workplan -Eighth Revision -April 2023. **Table 1-4** illustrates the distribution of these projects by asset category and when the projects are planning to begin the architectural and engineering (A & E) design phase on the horizon.

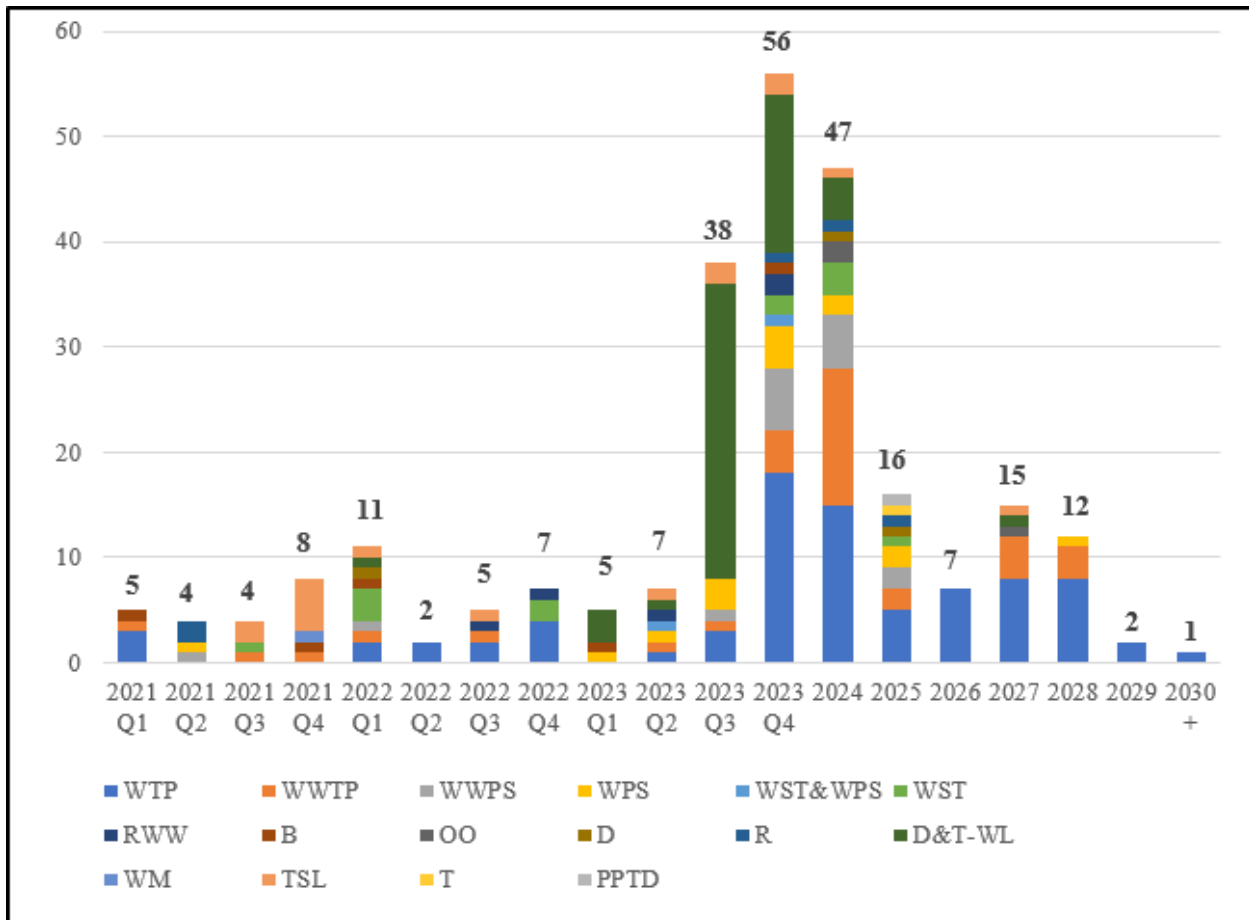
**Table 1-4: Number of Projects to Start A & E Design Phase by Asset Category in the Time Horizon (Natural Years and Cumulative Total)**

Asset Category	Near- Term (2021-2023)		Mid – Term (2024-2027)		Long – Term (2028-2030)		Total	
	Projects	\$ (M)	Projects	\$ (M)	Projects	\$ (M)	Projects	\$ (M)
<b>WTP</b>	49	\$1,221.89	25	\$224.29	7	\$60.22	81	\$1,506.41
<b>WWTP</b>	24	\$646.77	6	\$96.39	3	\$28.25	33	\$771.41
<b>WWPS</b>	11	\$68.85	5	\$47.16	0	\$0.00	16	\$116.01
<b>WPS</b>	12	\$33.25	4	\$28.14	0	\$0.00	16	\$61.38
<b>WST &amp; WPS</b>	2	\$1.73	0	\$0.00	0	\$0.00	2	\$1.73
<b>WST</b>	10	\$29.35	2	\$46.99	0	\$0.00	12	\$76.35
<b>RWW</b>	5	\$19.53	0	\$0.00	0	\$0.00	5	\$19.53
<b>B</b>	5	\$68.83	0	\$0.00	0	\$0.00	5	\$68.83
<b>OO</b>	1	\$26.97	2	\$161.79	0	\$0.00	3	\$188.76
<b>D</b>	2	\$7.74	1	\$20.00	0	\$0.00	3	\$27.74
<b>R</b>	4	\$124.52	1	\$41.00	0	\$0.00	5	\$165.52
<b>D&amp;T-WL</b>	50	\$100.82	3	\$102.24	0	\$0.00	53	\$203.06
<b>WM</b>	1	\$330.00	0	\$0.00	0	\$0.00	1	\$330.00
<b>TSL</b>	15	\$324.16	1	\$100.00	0	\$0.00	16	\$424.16
<b>T</b>	0	\$0.00	1	\$5.00	0	\$0.00	1	\$5.00
<b>PPTD</b>	0	\$0.00	1	\$103.40	0	\$0.00	1	\$103.40
<b>Total</b>	<b>191</b>	<b>\$3,004.41</b>	<b>52</b>	<b>\$976.40</b>	<b>10</b>	<b>\$ 88.48</b>	<b>253</b>	<b>\$4,069.29</b>



Figure 1-3 provides the estimated timeframe for project submission to FEMA for review and approval. The number of projects will likely change over time as PRASA collaborates with FEMA and COR3 to evaluate each project and optimize its project submission and evaluation strategy.

**Figure 1-3: FEMA SOW Estimated Initial Submittal Timeline (Natural Years)**



The following sections provide additional information about each of the priority categories, near-term, mid-term, and long term.



### 1.4 Near-Term Projects Profile (2021-2023)

There are 191 projects in the near-term priority category. These projects either have already begun 30% architectural and engineering (A & E) design or are expected to do so in 2021, 2022, and 2023 (natural years).

The cumulative investment on the projects expected to begin A & E within this time horizon is **\$3.0 Billion**. Figure 1-4 illustrates the breakdown of cumulative investment by asset category for projects commencing during this period.

**Figure 1-4: Total Estimated Cost by Asset Category for Near-Term Projects(\$M)**

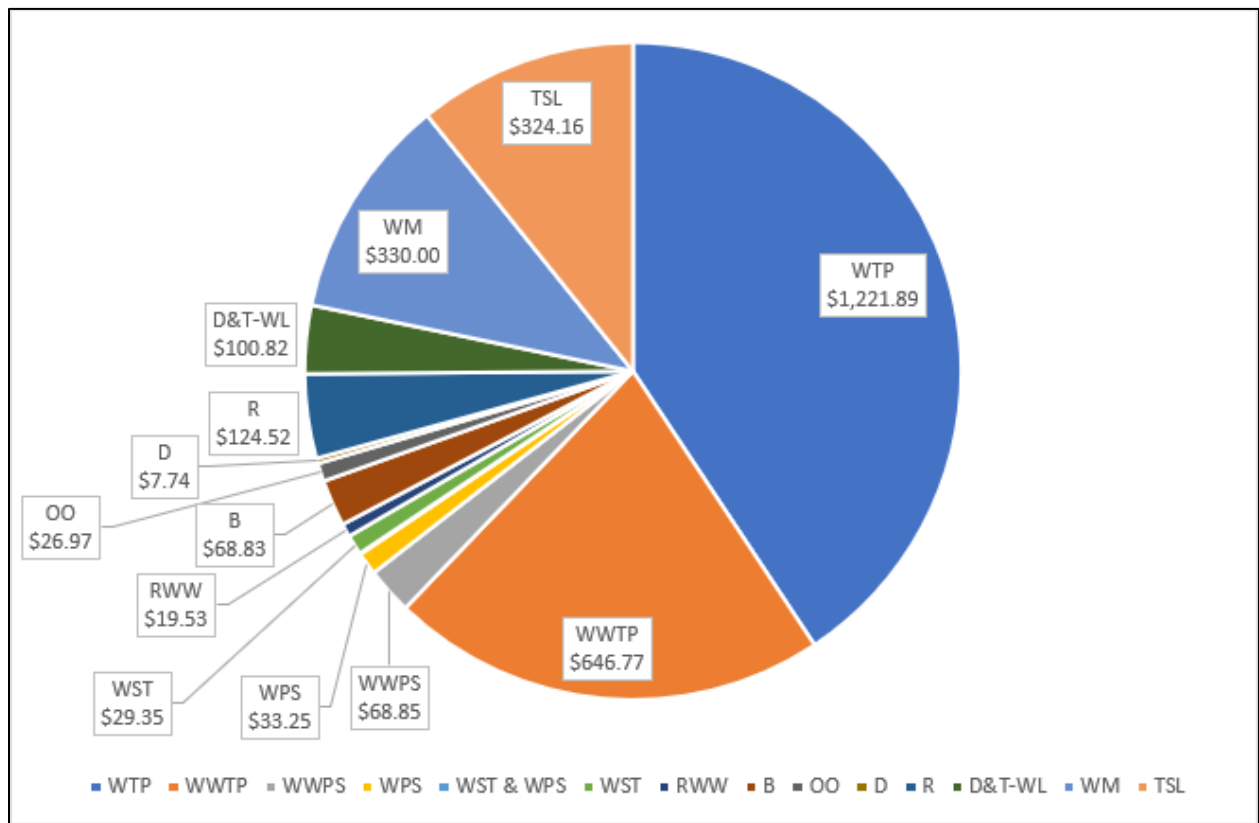


Table 1-5 provides a representative sample of notable projects slated to start during this period.

A high proportion of the FAASt Workplan projects have been sequenced in the near-term time horizon for several reasons:

- It is PRASA’s objective to deliver results as quickly as possible.
- Some projects already have completed preliminary engineering and are ready to proceed into the 30% design phase.
- Some projects have a complex design, and the availability of designers with the necessary expertise is limited in Puerto Rico and these must be started in the near-term and completed within the later years of the plan.
- In many cases, environmental remediation, rights-of-way, permits, and approvals must be carried out before the actual project begins.

**Table 1-5: Near-Term (2021-2023) Notable Projects**

Asset Category	Project #	Description	A&E Start Quarter	SOW Submittal Quarter	Total Cost Estimate
WWTP	CIP.3305001	Improvements to Guayama WWTP (FAAST)	2021-Q1	2021-Q1	\$117.04
WTP	CIP.2017005	Rehabilitation of Culebrinas WTP	2021-Q1	2021-Q1	\$58.83
WTP	CIP.2096007	Rehabilitation of Enrique Ortega WTP	2021-Q1	2021-Q1	\$158.13
WTP	CIP.2479001	Rehabilitation of Morovis Sur RWI	2021-Q1	2021-Q1	\$3.69
B	CIP.3130001	PRASA Central Laboratory in Caguas (FAAST)	2021-Q1	2021-Q1	\$31.25
WWTP	CIP.3135079	Rehabilitation of Blowers in Caguas WWTP (FAAST)	2021-Q1	2021-Q4	\$5.50
B	CIP.3139000	Equipment for New PRASA Central Laboratory in Caguas (FAAST)	2021-Q1	2022-Q1	\$8.00
WST	CIP.3360002	Design and Build Buena Vista Tank	2021-Q1	2021-Q3	\$1.47
TSL	CIP.4089000	Rehabilitation of Arroyo-Guayama Trunk Sewer Lines (FAAST)	2021-Q1	2021-Q4	\$19.98
WPS	CIP.3369001	Design and Build Buena Vista Humacao WPS	2021-Q1	2021-Q2	\$0.34



Asset Category	Project #	Description	A&E Start Quarter	SOW Submittal Quarter	Total Cost Estimate
<b>R</b>	CIP.1019000	Carraizo Reservoir Dredging	2021-Q1	2021-Q2	\$107.10
<b>WST</b>	CIP.4009001	Rehabilitation of Tanks Phase 1- South Region	2021-Q1	2022-Q1	\$4.05
<b>WWTP</b>	CIP.3365083	Rehabilitation of Humacao Waste Water Treatment Plant (WWTP) Sludge Treatment System (STS)	2021-Q2	2021-Q3	\$11.04
<b>WWPS</b>	CIP.3445009	Design and Build La Sabana Las Piedras WWPS	2021-Q2	2021-Q2	\$0.64
<b>D</b>	CIP.7776071	Rehabilitation of Toa Vaca Dam	2021-Q2	2022-Q1	\$3.71
<b>TSL</b>	CIP.4589003	Rehabilitation of Ponce Trunk Sewer System (FAAST)	2021-Q2	2021-Q4	\$15.81
<b>R</b>	CIP.5376001	Repair of Geosynthetic Membranes in Lago Regulador in Isabela	2021-Q2	2021-Q2	\$17.41
<b>WWTP</b>	CIP.5505028	Rehabilitation of Mayaguez WWTP (FAAST-25)	2021-Q2	2023-Q2	\$73.57
<b>WTP</b>	CIP.1709000	Enrique Ortega WTP- Raw Water Intake Power Generator (FEMA-404)	2021-Q2	2022-Q4	\$28.65
<b>WWTP</b>	CIP.1165044	Rehabilitation of Carolina WWTP FEMA (FAAST-25)	2021-Q3	2022-Q3	\$34.95
<b>WWTP</b>	CIP.2075073	Rehabilitation of Islote WWTP, Arecibo (FAAST)	2021-Q3	2022-Q1	\$29.52
<b>WTP</b>	CIP.2076042	Rehabilitation of Esperanza Arecibo WTP and RWI	2021-Q3	2022-Q1	\$18.15
<b>WTP</b>	CIP.2426100	Rehabilitation of Lares Nueva Espino WTP and RWI	2021-Q3	2022-Q1	\$13.01
<b>TSL</b>	CIP.1169001	Rehabilitation of Los Angeles and Loiza Pueblo Trunk Sewers (FAAST)	2021-Q3	2021-Q3	\$8.11
<b>WTP</b>	CIP.2739001	Rehabilitation of Lago Viví RWI	2021-Q3	2022-Q4	\$4.58
<b>TSL</b>	CIP.2755055	Rehabilitation of Vega Baja Trunk Sewer Lines (TSL)	2021-Q3	2021-Q4	\$10.41
<b>TSL</b>	CIP.3139002	Rehabilitation of Caguas Trunk Sewer Lines (FAAST)	2021-Q3	2021-Q4	\$32.82
<b>TSL</b>	CIP.2095052	Rehabilitation of 42 IN Trunk Sewer Line from PR-684 to the South part of Barceloneta WWTP	2021-Q3	2022-Q1	\$38.31
<b>WTP</b>	CIP.3366005	Rehabilitation of Humacao WTP	2021-Q3	2023-Q4	\$41.81
<b>WM</b>	CIP.6009002	Water Meters Islandwide LS Project (FAAST)	2021-Q3	2021-Q4	\$330.00



Asset Category	Project #	Description	A&E Start Quarter	SOW Submittal Quarter	Total Cost Estimate
WST	CIP.1009001	Rehabilitation of Tanks Phase 1- Metro Region	2021-Q4	2022-Q1	\$4.40
WTP	CIP.1016095	Rehabilitation of Guaynabo WTP	2021-Q4	2023-Q4	\$84.71
WTP	CIP.2206107	Rehabilitation of Ciales Fronton WTP and RWI	2021-Q4	2022-Q2	\$18.92
TSL	CIP.2375002	Trunk Sewer Lines (TSL) Isabela - Aguada (FAAST)	2021-Q4	2022-Q3	\$43.91
D&T-WL	CIP.2475022	Installation of Water Line at Río Utuado Bridge, Municipality of Utuado	2021-Q4	2022-Q1	\$0.82
WTP	CIP.2526006	Rehabilitation of Morovis Sur WTP	2021-Q4	2022-Q3	\$38.12
WST	CIP.3009001	Rehabilitation of Tanks Phase 1- East Region	2021-Q4	2022-Q1	\$3.78
WTP	CIP.4316007	Rehabilitation of Jaguas Pasto Guayanilla WTP	2021-Q4	2023-Q2	\$8.77
WWTP	CIP.4495001	Rehabilitation or Elimination of Maunabo WWTP (FAAST-25)	2021-Q4	2023-Q4	\$44.86
B	CIP.1660002	Rehabilitation of PRASA Main Building (Sede)	2021-Q4	2021-Q4	\$0.40
WST	CIP.2009001	Rehabilitation of Tanks Phase 1- North Region	2022-Q1	2022-Q4	\$6.21
WWPS	CIP.2039000	Rehabilitation of Guerrero 2 WWPS, Municipality of Aguadilla	2022-Q1	2022-Q1	\$3.91
TSL	CIP.2149001	Rehabilitation of Camuy Trunk Sewer Lines (FAAST)	2022-Q1	2021-Q3	\$68.04
WTP	CIP.2346015	Rehabilitation of Hatillo-Camuy WTP	2022-Q1	2022-Q2	\$32.58
TSL	CIP.2375003	Rehabilitation of Isabela TSL (Including Aguadilla WWPS Avenue and Fomento)	2022-Q1	2023-Q3	\$14.69
WTP	CIP.2426099	Rehabilitation of Lares Indiera Alta WTP and RWI	2022-Q1	2024-Q1	\$6.77
TSL	CIP.2709010	Improvements to the Teefrans TSL, Municipality of Arecibo	2022-Q1	2023-Q2	\$6.01
WWTP	CIP.3139001	Improvements to Caguas WWTP (FAAST-25)	2022-Q1	2023-Q4	\$24.44
WTP	CIP.3156093	Rehabilitation of Río Grande El Yunque WTP	2022-Q1	2023-Q3	\$49.73
WTP	CIP.3536006	Rehabilitation Naguabo Río Blanco WTP	2022-Q1	2023-Q4	\$24.81





Asset Category	Project #	Description	A&E Start Quarter	SOW Submittal Quarter	Total Cost Estimate
WWTP	CIP.3765002	Rehabilitation Vieques WWTP (FAAST)	2022-Q1	2023-Q2	\$28.58
RWW	CIP.4009106	Rehabilitation of Raw Water Well Phase 1- South Region	2022-Q1	2022-Q3	\$3.70
WWTP	CIP.4555022	Rehabilitation of Orocovis WWTP (FAAST-25)	2022-Q1	2024-Q1	\$13.70
WWTP	CIP.4695042	Rehabilitation of Santa Isabel WWTP (FAAST)	2022-Q1	2024-Q1	\$14.14
WTP	CIP.4776078	Rehabilitation of Jagueyes Villalba WTP	2022-Q1	2023-Q3	\$20.90
WST	CIP.5009001	Rehabilitation of Tanks Phase 1- West Region	2022-Q1	2022-Q4	\$3.69
WTP	CIP.5379002	Guajataca Floating RWI	2022-Q1	2022-Q3	\$9.32
TSL	CIP.5509001	Rehabilitation of Hormigueros and Mayaguez Trunk Sewer Lines (FAAST)	2022-Q1	2021-Q4	\$26.76
WTP	CIP.4646004	Raw Water Wells Closure/ Salinas WTP (FEMA-404)	2022-Q1	2022-Q4	\$44.14
WPS	CIP.1009103	Rehabilitation of Water Pump Stations Tanks Phase 1- Metro Region	2022-Q2	2023-Q4	\$3.57
WWPS	CIP.1009104	Rehabilitation of Wastewater Pump Stations Tanks Phase 1- Metro Region	2022-Q2	2023-Q4	\$7.59
RWW	CIP.1009106	Rehabilitation of Raw Water Well Phase 1- Metro Region	2022-Q2	2023-Q4	\$1.88
WTP	CIP.1116008	Rehabilitation of Guaynabo Santa Rosa WI (FAAST-25)	2022-Q2	2023-Q4	\$31.73
WTP	CIP.1726043	Rehabilitation of Sergio Cuevas WTP	2022-Q2	2023-Q4	\$132.48
WPS	CIP.2009103	Rehabilitation of Water Pump Stations Tanks Phase 1- North Region	2022-Q2	2023-Q2	\$3.58
WWPS	CIP.2009104	Rehabilitation of Wastewater Pump Stations Tanks Phase 1- North Region	2022-Q2	2023-Q3	\$7.61
WTP	CIP.2246106	Rehabilitation of Ciales Negros WTP and RWI	2022-Q2	2023-Q3	\$9.04
WWTP	CIP.2475021	Rehabilitation of Barceloneta WWTP (FAAST-25)	2022-Q2	2024-Q2	\$29.80
WTP	CIP.2596004	Rehabilitation of Quebradillas WTP and RWI	2022-Q2	2023-Q4	\$8.18



Asset Category	Project #	Description	A&E Start Quarter	SOW Submittal Quarter	Total Cost Estimate
<b>WTP</b>	CIP.2916002	Rehabilitation of Arecibo Superacueductos WTP	2022-Q2	2023-Q4	\$125.39
<b>RWW</b>	CIP.3009106	Rehabilitation of Raw Water Wells Phase 1- Este Region	2022-Q2	2022-Q4	\$3.60
<b>WTP</b>	CIP.3106106	Rehabilitation of Barranquitas Barrancas WTP and RWI	2022-Q2	2024-Q1	\$8.81
<b>WWTP</b>	CIP.3236247	Rehabilitation of Comerío WWTP (FAAST)	2022-Q2	2023-Q4	\$36.80
<b>WWTP</b>	CIP.4585096	Rehabilitation of Ponce WWTP (FAAST-25)	2022-Q2	2024-Q2	\$22.79
<b>RWW</b>	CIP.5009106	Rehabilitation of Raw Water Well Phase 1- West Region	2022-Q2	2023-Q4	\$1.62
<b>WWTP</b>	CIP.5035001	Rehabilitation of Aguada WWTP (FAAST-25)	2022-Q2	2023-Q4	\$22.27
<b>WWTP</b>	CIP.5415031	Rehabilitation of Lajas WWTP (FAAST)	2022-Q2	2024-Q2	\$12.85
<b>WTP</b>	CIP.5506047	Rehabilitation of Miradero Mayaguez WTP	2022-Q2	2023-Q4	\$20.46
<b>RWW</b>	CIP.2009106	Rehabilitation of Raw Water Well Phase 1- North Region	2022-Q3	2023-Q1	\$8.74
<b>WPS</b>	CIP.2329004	Design and Build of Rehabilitation of Water Pump Station at Ciales Pozas	2022-Q3	2023-Q1	\$1.59
<b>D&amp;T-WL</b>	CIP.2526008	Improvements to the Water Distribution System in Morovis (FAAST)	2022-Q3	2023-Q4	\$8.23
<b>D&amp;T-WL</b>	CIP.2549000	Rehabilitation of Transmission and Distribution System at Naranjito (FAAST)	2022-Q3	2023-Q4	\$6.40
<b>WPS</b>	CIP.3009103	Rehabilitation of Water Pump Stations Tanks Phase 1- East Region	2022-Q3	2023-Q3	\$7.69
<b>WTP</b>	CIP.3136012	Rehabilitation of Caguas Norte WTP	2022-Q3	2024-Q1	\$16.64
<b>WTP</b>	CIP.3156094	Replacement of RWI at Mameyes River for the Yunque WTP	2022-Q3	2022-Q4	\$11.33
<b>WTP</b>	CIP.3186003	Rehabilitation of Cayey El Farallon WTP	2022-Q3	2024-Q1	\$9.54
<b>WPS</b>	CIP.4009103	Rehabilitation of Water Pump Stations Tanks Phase 1- South Region	2022-Q3	2023-Q3	\$3.60



Asset Category	Project #	Description	A&E Start Quarter	SOW Submittal Quarter	Total Cost Estimate
WTP	CIP.4576004	Rehabilitation of Malpaso Peñuelas WTP	2022-Q3	2023-Q4	\$9.48
WTP	CIP.5036006	Rehabilitation Aguadilla Montaña WTP	2022-Q3	2024-Q1	\$24.51
WTP	CIP.5486006	Rehabilitation of Monte del Estado Maricao WTP	2022-Q3	2023-Q4	\$6.04
WTP	CIP.5489001	Rehabilitation of Maricao RWI	2022-Q3	2023-Q4	\$7.35
D&T-WL	CIP.7349002	Hatillo -Nuevo Sistema de Dis. Bo. Campo Alegre, Sectores 10 #NRW #JG (FAAST)	2022-Q3	2023-Q3	\$6.16
R	CIP.1009002	Carraizo Reservoir Sediment Control	2022-Q3	2023-Q4	\$5.24
WST & WPS	CIP.2079004	Improvements to Cerro Marquez WPS & 2.0 MG Tank, Municipality of Arecibo	2022-Q4	2023-Q2	\$1.33
D&T-WL	CIP.2269000	Improvements to Water Distribution System, Dorado/Vega Alta (Dorado Twist)	2022-Q4	2023-Q4	\$1.44
D&T-WL	CIP.2269001	Design and Build of Rehabilitation of 4" and 2 " Water Lines Vimu Villa Community, Municipality of Dorado	2022-Q4	2023-Q2	\$1.07
D&T-WL	CIP.2349003	Design and Build 16" WL, PR-119, Hatillo-Camuy	2022-Q4	2023-Q3	\$1.78
WTP	CIP.2526007	Rehabilitation of Morovis Urbano WTP	2022-Q4	2023-Q4	\$10.72
D&T-WL	CIP.2709001	Design and Construction of 6" WL, El Tocón Sector, Quebrada Cruz Ward, Municipality of Toa Alta	2022-Q4	2023-Q1	\$0.94
WST	CIP.4009101	Rehabilitation of Tanks Phase 2-South Region	2022-Q4	2023-Q4	\$1.89
WTP	CIP.4016012	Rehabilitation of Adjuntas Guilarte WTP	2022-Q4	2024-Q1	\$6.73
TSL	CIP.4299000	Rehabilitation of Barriada Esperanza Guanica Trunk Sewer System	2022-Q4	2023-Q4	\$5.52
D&T-WL	CIP.4559002	Rehabilitation of WL El Gato Ward, Orocovis, PR (FAAST)	2022-Q4	2023-Q1	\$0.97
WWTP	CIP.4575005	Rehabilitation of Peñuelas WWTP (FAAST-25)	2022-Q4	2024-Q2	\$37.06



Asset Category	Project #	Description	A&E Start Quarter	SOW Submittal Quarter	Total Cost Estimate
D&T-WL	CIP.4589006	Rehabilitation of WL La Yuca Sector, Ponce, PR (FAAST)	2022-Q4	2023-Q1	\$1.29
TSL	CIP.5685000	Replacement of Trunk Sewer Lines (TSL) in San Sebastián (FAAST)	2022-Q4	2023-Q4	\$24.94
D&T-WL	CIP.1019001	Rehabilitation of D&T-WL Bo. Sonadora, Renacer Sector and Mansiones, Municipality of Guaynabo	2023-Q1	2023-Q3	\$0.49
D&T-WL	CIP.1019002	Replacement of 2" WL Pipe, Camino Los Bigios Sector, Caimito Ward, Municipality of San Juan	2023-Q1	2023-Q3	\$0.44
D&T-WL	CIP.1019003	Replacement of WL Pipe, Ponce De Leon Avenue, Amelia Ward, Municipality of Guaynabo	2023-Q1	2023-Q3	\$2.03
D&T-WL	CIP.1019004	Replacement of WL Pipe, El Gato Sector at PR-834, Municipality of Guaynabo	2023-Q1	2023-Q3	\$0.82
D&T-WL	CIP.1115069	Replacement of WL Pipe, La Pra Sector and Los Fonsecas, Buana Vista Ward, Municipality of Bayamón	2023-Q1	2023-Q4	\$1.07
D&T-WL	CIP.1115070	Replacement of WL Pipe, Doña Concha Community, Municipality of Bayamón	2023-Q1	2023-Q4	\$0.47
D&T-WL	CIP.1115071	Construction of WL Infrastructure, Los Fonseca Sector, Cerro Gordo Ward, Municipality of Bayamon	2023-Q1	2023-Q4	\$0.64
D&T-WL	CIP.1159001	Replacement and Renovation of WL, Urb. Loiza Valley, Municipality of Canóvanas	2023-Q1	2023-Q3	\$0.90
D&T-WL	CIP.1169002	Replacement and Renovation of WL, Urb. Villa Fontana, Municipality of Carolina	2023-Q1	2023-Q3	\$1.22
D&T-WL	CIP.1665120	Rehabilitation of WL (SDR14) Urb. Country Club, San Juan	2023-Q1	2023-Q4	\$3.35
D&T-WL	CIP.1669101	Replacement and Renovation of WL, Urb. Country Club, Municipality of Carolina	2023-Q1	2023-Q3	\$2.28
D&T-WL	CIP.2071000	Improvements to Arecibo Water Distribution System	2023-Q1	2023-Q4	\$1.47



Asset Category	Project #	Description	A&E Start Quarter	SOW Submittal Quarter	Total Cost Estimate
D&T-WL	CIP.2071001	Improvements to La Pica, El Peje, and Sabana Hoyos Water Distribution System, Municipality of Vega Alta	2023-Q1	2023-Q4	\$2.63
D&T-WL	CIP.2346016	Replacement of 4" and 6" WL, Bayaney Ward, Municipality of Hatillo	2023-Q1	2024-Q1	\$1.46
D&T-WL	CIP.2389000	Rehabilitation of 4" WL, Cuesta del Cementerio Sector, Municipality of Jayuya	2023-Q1	2023-Q3	\$0.57
D&T-WL	CIP.2389001	Improvements Tetuan III Com. Inst Water Pipeline 4"/2" PVC-SDR (FAAST) #NRW #JG	2023-Q1	2023-Q3	\$0.90
D&T-WL	CIP.2419001	Improvements to Rio Lajas Dorado Water Distribution System	2023-Q1	2023-Q3	\$3.28
D&T-WL	CIP.2479000	Design and Build of 8" Water Line, Boquillas Ward, Municipality of Manatí	2023-Q1	2023-Q4	\$2.44
D&T-WL	CIP.2526009	Design and Build of Rehabilitation of 4" and 2 " Water Lines, Los Pedrozas Sector, Municipality of Morovis	2023-Q1	2023-Q4	\$0.75
D&T-WL	CIP.2709002	Design and Construction of 4" WL, Villa Esperanza Community, Municipality of Toa Alta	2023-Q1	2023-Q4	\$1.69
WTP	CIP.2736005	Rehabilitation of Utuado Mameyes Limon (Arriba) WTP and RWI	2023-Q1	2023-Q4	\$6.69
WTP	CIP.2736006	Rehabilitation of Utuado Mameyes WTP and RWI	2023-Q1	2024-Q2	\$9.43
WTP	CIP.2736007	Rehabilitation of Santa Isabel Utuado WTP and RWI	2023-Q1	2024-Q2	\$10.69
WST	CIP.3009101	Rehabilitation of Tanks Phase 2- East Region	2023-Q1	2023-Q4	\$1.61
WWPS	CIP.3009104	Rehabilitation of Wastewater Pump Stations Tanks Phase 1- East Region	2023-Q1	2023-Q4	\$7.63
WPS	CIP.3019001	Replacement of Switchgear WPS Piedras Blancas, Guaynabo (FAAST) #NRW #JG	2023-Q1	2023-Q3	\$1.67
WTP	CIP.3106105	Rehabilitation of Barranquitas La Boca WTP and RWI	2023-Q1	2024-Q2	\$7.35



Asset Category	Project #	Description	A&E Start Quarter	SOW Submittal Quarter	Total Cost Estimate
<b>D&amp;T-WL</b>	CIP.3139004	Extension to Water System Aguas Buenas Mulas Tizas (FAAST) #NRW #JG	2023-Q1	2023-Q3	\$1.90
<b>WWTP</b>	CIP.3185033	Rehabilitation of Cayey WWTP (FAAST-25)	2023-Q1	2024-Q2	\$21.95
<b>WWTP</b>	CIP.3279001	Rehabilitation of Switchgear Fajardo WWTP (FAAST) #NRW #JG	2023-Q1	2023-Q3	\$1.90
<b>WTP</b>	CIP.3336045	Rehabilitation of Gurabo WTP	2023-Q1	2024-Q2	\$9.40
<b>WWTP</b>	CIP.3785018	Rehabilitation of Yabucoa WWTP (FAAST)	2023-Q1	2024-Q2	\$13.83
<b>WTP</b>	CIP.3786003	Rehabilitation of Yabucoa Guayabota WTP and RWI	2023-Q1	2024-Q2	\$6.71
<b>WWPS</b>	CIP.4009104	Rehabilitation of Wastewater Pump Stations Tanks Phase 1- South Region	2023-Q1	2023-Q4	\$7.63
<b>D&amp;T-WL</b>	CIP.4089001	Rehabilitation of WL Buena Vista Sector, Arroyo (FAAST) #NRW #JG	2023-Q1	2023-Q3	\$0.55
<b>D&amp;T-WL</b>	CIP.4229003	Rehabilitation WL PR-155 Sector Farallones, Coamo (FAAST) #NRW #JG	2023-Q1	2023-Q3	\$1.96
<b>D&amp;T-WL</b>	CIP.4229004	Rehabilitation of WL PR-150 Santa Catalina and San Ildefonso, Coamo (FAAST) #NRW #JG	2023-Q1	2023-Q3	\$4.38
<b>D&amp;T-WL</b>	CIP.4319001	Rehabilitation of WL PR-335, Indios Ward, Guayanilla (FAAST) #NRW #JG	2023-Q1	2023-Q3	\$2.45
<b>D&amp;T-WL</b>	CIP.4399000	Rehabilitation of WL Collores Sector PR 512, Juana Diaz (FAAST) #NRW #JG	2023-Q1	2023-Q3	\$0.87
<b>WTP</b>	CIP.4556009	Rehabilitation of Sanamuertos Orocovis WTP	2023-Q1	2023-Q4	\$9.37
<b>WTP</b>	CIP.4576002	Rehabilitation of Peñuelas WTP	2023-Q1	2024-Q1	\$11.50
<b>D&amp;T-WL</b>	CIP.4589007	Rehabilitation of WL Sabanetas Sector, Ponce, PR (FAAST).	2023-Q1	2023-Q3	\$1.26
<b>TSL</b>	CIP.4649000	Replacement of TSL Santos Amadeo, Baldorioty & Miguel Casco Urban, Salinas (FAAST)	2023-Q1	2023-Q3	\$3.60
<b>WTP</b>	CIP.4776077	Rehabilitation of Villalba Apeadero WTP	2023-Q1	2023-Q4	\$10.69



Asset Category	Project #	Description	A&E Start Quarter	SOW Submittal Quarter	Total Cost Estimate
D&T-WL	CIP.4779001	Replacement of WL Limón Sector, Villalba (FAAST) #NRW #JG	2023-Q1	2023-Q3	\$2.34
D&T-WL	CIP.4779002	Rehabilitation of W Chichón Sector, Villalba (FAAST) #NRW #JG	2023-Q1	2023-Q3	\$1.19
WTP	CIP.4796004	Rehabilitation of Yauco Río Prieto WTP	2023-Q1	2024-Q2	\$19.19
B	CIP.5009000	Rehabilitation of West Region Facilities	2023-Q1	2023-Q4	\$0.78
WPS	CIP.5009103	Rehabilitation of Water Pump Stations Tanks Phase 1- West Region	2023-Q1	2023-Q4	\$3.61
WWPS	CIP.5009104	Rehabilitation of Wastewater Pump Stations Tanks Phase 1- West Region	2023-Q1	2023-Q4	\$7.65
D&T-WL	CIP.5067002	Improvements to Water System Community Del Hoyo de los Feos, Añasco (FAAST)	2023-Q1	2023-Q4	\$0.84
D&T-WL	CIP.5069000	Design and Build Installation of 4" WL Parcelas Aqlas Aquilino, Añasco (FAAST) #NRW #JG	2023-Q1	2023-Q3	\$1.44
WWTP	CIP.5089000	Rehabilitation of Las Marías WWTP (FAAST-25)	2023-Q1	2024-Q1	\$3.95
D&T-WL	CIP.5129001	Design & Build Installation of 4" WL Betances Community, Llanos Tuna Ward, Cabo Rojo (FAAST) #NRW #JG	2023-Q1	2023-Q3	\$0.97
D&T-WL	CIP.5379000	Design and Build Installation of 4" WL Chevín Sector, Isabela (FAAST) #NRW #JG	2023-Q1	2023-Q3	\$4.06
WTP	CIP.5486007	Rehabilitation of Maricao WTP	2023-Q1	2023-Q4	\$8.99
WTP	CIP.5506046	Rehabilitation of Ponce de Leon Mayaguez WTP	2023-Q1	2023-Q4	\$6.04
D&T-WL	CIP.5509000	Design & Build Installation 6" and 4" WL, París Ward, Mayaguez (FAAST) #NRW #J	2023-Q1	2023-Q3	\$1.73
D&T-WL	CIP.5579003	Design and Build 4" WL PR-41, PR-412, PR-412, PR-412, Corea Sector, Rincón (FAAST)	2023-Q1	2023-Q3	\$1.03
WTP	CIP.5596001	Rehabilitation of Quebradillas Guajataca WTP and RWI	2023-Q1	2024-Q2	\$20.62



Asset Category	Project #	Description	A&E Start Quarter	SOW Submittal Quarter	Total Cost Estimate
<b>D&amp;T-WL</b>	CIP.5609002	Design and Build Installation of 4" WL, Camino Blanco Black Eagle, Rincón (FAAST) #NRW #JG	2023-Q1	2023-Q3	\$0.54
<b>D&amp;T-WL</b>	CIP.5639000	Design and Build Installation of 4" WL, Algarrobo, Azucena and Parcela Lluveras, Sabana Grande (FAAST) #NRW #JG	2023-Q1	2023-Q3	\$1.52
<b>WWTP</b>	CIP.2269002	Elimination of Several WWTP North Region (FAASt 406)	2023-Q1	2024-Q1	\$320.05
<b>WST</b>	CIP.1009101	Rehabilitation of Tanks Phase 2- Metro Region	2023-Q2	2024-Q1	\$1.89
<b>WPS</b>	CIP.1009203	Rehabilitation of Water Pump Stations Tanks Phase 2- Metro Region	2023-Q2	2024-Q1	\$3.24
<b>WWPS</b>	CIP.1009204	Rehabilitation of Wastewater Pump Stations Tanks Phase 2- Metro Region	2023-Q2	2024-Q1	\$6.90
<b>WPS</b>	CIP.1159000	Design and Build of Rehabilitation of Water Pump Station at La Central, Municipality of Canóvanas	2023-Q2	2023-Q4	\$1.00
<b>WWPS</b>	CIP.1665900	Rehabilitation of Martín Peña WWPS (Tokio), Municipality of San Juan	2023-Q2	2023-Q4	\$4.03
<b>D</b>	CIP.1666090	Improvements to La Plata Dam- Installation of Anchors	2023-Q2	2024-Q3	\$4.03
<b>WWPS</b>	CIP.3009204	Rehabilitation of Wastewater Pump Stations Tanks Phase 2- East Region	2023-Q2	2023-Q4	\$7.63
<b>WWTP</b>	CIP.3045036	Rehabilitation of Aguas Buenas WWTP (FAAST)	2023-Q2	2024-Q1	\$12.82
<b>WPS</b>	CIP.4317001	Construction Sector Ballinó Guayanilla WPS (FAAST)	2023-Q2	2023-Q4	\$0.44
<b>WST</b>	CIP.5009101	Rehabilitation of Tanks Phase 2- West Region	2023-Q2	2024-Q1	\$1.84
<b>WPS</b>	CIP.5009203	Rehabilitation of Water Pump Stations Tanks Phase 2- West Region	2023-Q2	2024-Q1	\$3.24
<b>WWPS</b>	CIP.5009204	Rehabilitation of Wastewater Pump Stations Tanks Phase 2- West Region	2023-Q2	2024-Q1	\$7.65





Asset Category	Project #	Description	A&E Start Quarter	SOW Submittal Quarter	Total Cost Estimate
WTP	CIP.5506044	Rehabilitation of Miradero Mayagüez RWI	2023-Q2	2023-Q4	\$53.94
OO	CIP.5509105	Rehabilitation of Mayaguez Ocean Outfall	2023-Q2	2024-Q3	\$26.97
D&T-WL	CIP.5609001	Installation of 12" WL PR-115, Rincón (FAAST)	2023-Q2	2023-Q4	\$8.40
D&T-WL	CIP.5685006	Improvements to Villa Rita Drinking Water System, San Sebastián (FAAST).	2023-Q2	2023-Q4	\$3.88
R	CIP.4009000	Bauta Tunnel (FEMA 404/CDBG-MIT)	2023-Q2	2024-Q2	\$245.41
D&T-WL	CIP.1669001	Improvements to Water Distribution System, Hollywood Hills, Municipality of San Juan	2023-Q3	2024-Q1	\$1.52
WST & WPS	CIP.2076044	Installation of MCC at Medio Millon Arecibo WST & WPS	2023-Q3	2023-Q4	\$0.40
TSL	CIP.2475025	Replacement of TSL Río Manatí Sifon, Manatí-Barceloneta	2023-Q3	2024-Q2	\$5.24
WWTP	CIP.1665115	Rehabilitation of Puerto Nuevo WWTP, Municipality of San Juan	2023-Q4	2024-Q3	\$33.41
B	CIP.6009007	Rehabilitation to PRASA Buildings Islandwide LS Project -Acquisition of Power Generators (FAAST)	2023-Q1	2023-Q1	\$28.00

### 1.5 Mid- Term Projects Profile (2024-2027)

The mid-term priority category comprises 52 projects that should begin 30% A & E design in 2024, 2025, 2026, and 2027 (natural years). The cumulative investment on the projects expected to begin A & E within this time horizon is **\$976.4 Million**. Figure 1-5 illustrates the breakdown of cumulative investment by asset category for projects commencing during this period.

**Figure 1-5: Total Estimated Cost by Asset Category for Mid-Term Projects(\$M)**



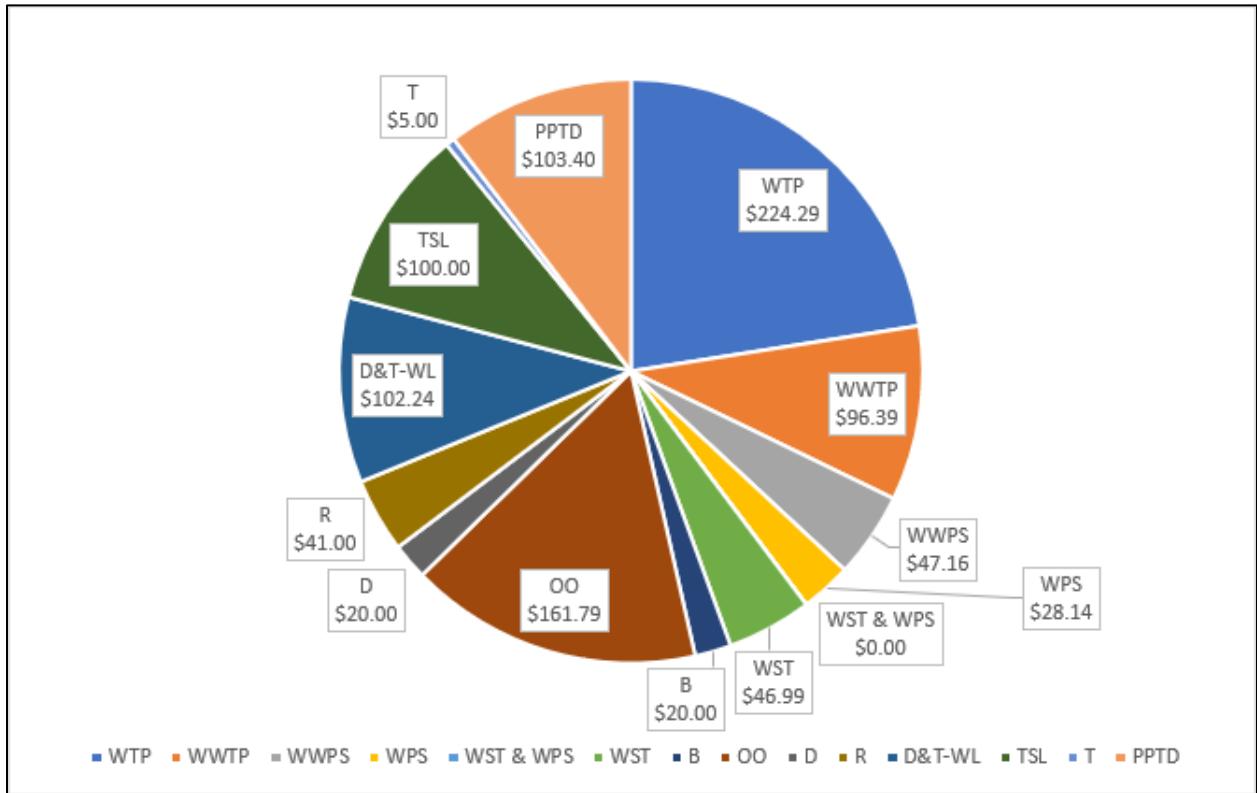


Table 1-6 provides a representative sample of notable projects slated to commence during this period.



**Table 1-6: Mid-Term (2024-2027) Notable Projects**

Asset Category	Project #	Description	A&E Start Quarter	SOW Submittal Quarter	Total Cost Estimate
<b>OO</b>	CIP.2149105	Rehabilitation of Camuy Ocean Outfall	2024-Q1	2024-Q3	\$35.79
<b>D&amp;T-WL</b>	CIP.3136009	Improvements to the Water Supply System in Villa del Rey Ward in Caguas (FAAST)	2024-Q1	2024-Q1	\$0.50
<b>WTP</b>	CIP.1156004	Rehabilitation of Cubuy WTP and RWI, Municipality of Canóvanas	2024-Q2	2025-Q1	\$10.37
<b>WST</b>	CIP.2009101	Rehabilitation of Tanks Phase 2- North Region	2024-Q2	2024-Q4	\$1.99
<b>WPS</b>	CIP.2009203	Rehabilitation of Water Pump Stations Tanks Phase 2- North Region	2024-Q2	2024-Q4	\$3.45
<b>WWPS</b>	CIP.2009204	Rehabilitation of Wastewater Pump Stations Tanks Phase 2- North Region	2024-Q2	2024-Q4	\$7.43
<b>WPS</b>	CIP.4009203	Rehabilitation of Water Pump Stations Tanks Phase 2- South Region	2024-Q2	2024-Q4	\$3.24
<b>WWPS</b>	CIP.4009204	Rehabilitation of Wastewater Pump Stations Tanks Phase 2- South Region	2024-Q2	2024-Q4	\$6.90
<b>D&amp;T-WL</b>	CIP.5506042	Improvements to the Water Supply System in Mayaguez Mall (FAAST)	2024-Q2	2024-Q4	\$1.74
<b>WWPS</b>	CIP.7688000	Elimination of Los Alamos WWPS San Sebastian	2024-Q2	2024-Q4	\$0.93
<b>WWPS</b>	CIP.5685001	Rehabilitation of Chinito Rondon WWPS San Sebastian	2024-Q3	2025-Q1	\$0.90
<b>WTP</b>	CIP.6009016	Rehabilitation to PRASA WTP Islandwide LS Project (FAAST)	2024-Q3	2024-Q4	\$30.00



Asset Category	Project #	Description	A&E Start Quarter	SOW Submittal Quarter	Total Cost Estimate
<b>WWTP</b>	CIP.6009017	Rehabilitation to PRASA WWTP Islandwide LS Project (FAST)	2024-Q3	2024-Q4	\$30.00
<b>WTP</b>	CIP.2386049	Elimination of Jayuya Canalizo WTP and RWI	2024-Q4	2025-Q4	\$6.67
<b>WTP</b>	CIP.2736008	Rehabilitation of Utuado Roncador WTP and RWI	2024-Q4	2025-Q2	\$6.90
<b>WWTP</b>	CIP.4315010	Rehabilitation of Guayanilla WWTP (FAAST)	2024-Q4	2025-Q4	\$21.97
<b>WTP</b>	CIP.3106104	Rehabilitation of Barranquitas WTP and RWI	2025-Q1	2025-Q4	\$7.34
<b>WTP</b>	CIP.3186002	Rehabilitation of Cayey Urbana WTP	2025-Q1	2025-Q4	\$11.28
<b>WST</b>	CIP.6009001	Water Storage Tanks Islandwide (FAAST)	2025-Q1	2025-Q2	\$45.00
<b>WPS</b>	CIP.6009003	Rehabilitation of WPS Islandwide LS Project (FAAST)	2025-Q1	2025-Q2	\$12.00
<b>WWPS</b>	CIP.6009004	Rehabilitation of WWPS Islandwide LS Project (FAAST)	2025-Q1	2025-Q2	\$31.00
<b>PPTD</b>	CIP.6009008	Projects Pending to Defined LS Project (FAAST)	2025-Q1	2025-Q3	\$111.80
<b>R</b>	CIP.6009010	Reservoir Dredging Islandwide LS Project	2025-Q1	2025-Q2	\$41.00
<b>D</b>	CIP.6009011	Rehabilitation to PRASA Dams Islandwide LS Project (FAST)	2025-Q1	2025-Q3	\$20.00
<b>T</b>	CIP.6009012	Telemetry Islandwide LS Project (FAAST)	2025-Q1	2025-Q3	\$5.00
<b>WTP</b>	CIP.2076043	Rehabilitation of Río Arriba Arecibo WTP	2025-Q4	2026-Q3	\$4.77
<b>WTP</b>	CIP.3136013	Rehabilitation of Caguas Sur WTP	2025-Q4	2026-Q2	\$9.42
<b>WTP</b>	CIP.4016008	Rehabilitation of Adjuntas Olimpia WTP	2025-Q4	2026-Q3	\$8.74



Asset Category	Project #	Description	A&E Start Quarter	SOW Submittal Quarter	Total Cost Estimate
<b>WTP</b>	CIP.4586084	Rehabilitation Ponce Guaraguao WTP	2026-Q1	2026-Q3	\$9.37
<b>WTP</b>	CIP.4796005	Rehabilitation Yauco Rancheras WTP	2026-Q1	2026-Q3	\$6.67
<b>WTP</b>	CIP.5686045	Rehabilitation of San Sebastian WTP and RWI	2026-Q1	2026-Q4	\$8.64
<b>WTP</b>	CIP.3536007	Rehabilitation Naguabo El Duque WTP	2026-Q2	2026-Q4	\$6.66
<b>WTP</b>	CIP.2386048	Elimination of Jayuya La Pica WTP and RWI	2026-Q4	2027-Q3	\$6.67
<b>WWTP</b>	CIP.3056002	Rehabilitation of Aibonito WWTP (FAAST)	2026-Q4	2027-Q2	\$12.00
<b>WTP</b>	CIP.3186004	Rehabilitation of Cayey Culebras Alto WTP	2026-Q4	2027-Q2	\$6.68
<b>WTP</b>	CIP.1156005	Rehabilitation of Canóvanas Nueva WTP and RWI	2027-Q1	2027-Q3	\$13.00
<b>WPS</b>	CIP.1669002	Rehabilitation of WPS of Puerto Nuevo and WL of 48", Municipality of San Juan	2027-Q1	2028-Q1	\$9.44
<b>WTP</b>	CIP.2206106	Rehabilitation of Jaguas Pesas Ciales WTP and RWI	2027-Q1	2027-Q3	\$6.70
<b>WWTP</b>	CIP.3105032	Rehabilitation of Barranquitas WWTP (FAAST)	2027-Q1	2027-Q4	\$9.42
<b>WTP</b>	CIP.3466005	Rehabilitation of Luquillo-Sabana WTP	2027-Q1	2027-Q3	\$11.28
<b>WTP</b>	CIP.5636006	Rehabilitation of Sabana Grande WTP and RWI	2027-Q1	2027-Q3	\$6.17
<b>WTP</b>	CIP.5656001	Rehabilitation of Caín Alto San Germán WTP and RWI	2027-Q1	2027-Q3	\$6.18
<b>OO</b>	CIP.6009005	Rehabilitation to PRASA Ocean Outfalls Islandwide LS Project (FAST)	2027-Q1	2027-Q3	\$126.00



Asset Category	Project #	Description	A&E Start Quarter	SOW Submittal Quarter	Total Cost Estimate
<b>TSL</b>	CIP.6009014	Trunk Sewer Lines (TSL) Islandwide LS Project (FAAST)	2027-Q1	2027-Q2	\$100.00
<b>D&amp;T-WL</b>	CIP.6009015	T & D -WL Islandwide LS Project (FAAST)	2027-Q1	2027-Q2	\$100.00
<b>WWTP</b>	CIP.2545006	Rehabilitation of Naranjito WWTP	2027-Q2	2027-Q4	\$10.25
<b>WTP</b>	CIP.5376006	Rehabilitation of Isabela Urbana WTP and RWI	2027-Q2	2027-Q4	\$7.75
<b>WWTP</b>	CIP.5685004	Rehabilitation of San Sebastián WWTP (FAAST-25)	2027-Q2	2027-Q4	\$12.75
<b>WTP</b>	CIP.2386047	Rehabilitation of Jayuya Urbano WTP and RWI	2027-Q4	2028-Q3	\$9.61
<b>WTP</b>	CIP.3046005	Rehabilitation of Aguas Buenas WTP	2027-Q4	2028-Q2	\$7.34
<b>WTP</b>	CIP.3216066	Rehabilitation of Cidra Urbano WTP	2027-Q4	2028-Q2	\$9.42
<b>WTP</b>	CIP.3786004	Rehabilitation of Yabucoa La Pica WTP	2027-Q4	2028-Q2	\$6.67



## 1.6 Long-Term Projects Profile (2028 and beyond)

The long-term priority category comprises 10 projects that are expected to begin 30% A & E design in years 2028 and beyond.

The cumulative investment on the projects expected to begin A & E within this time horizon is **\$88.48 Million**.

Figure 1-6 illustrates the breakdown of cumulative investment by asset category for projects commencing during this period.

**Figure 1-6: Total Estimated Cost by Asset Category for Long-Term Projects(\$M)**

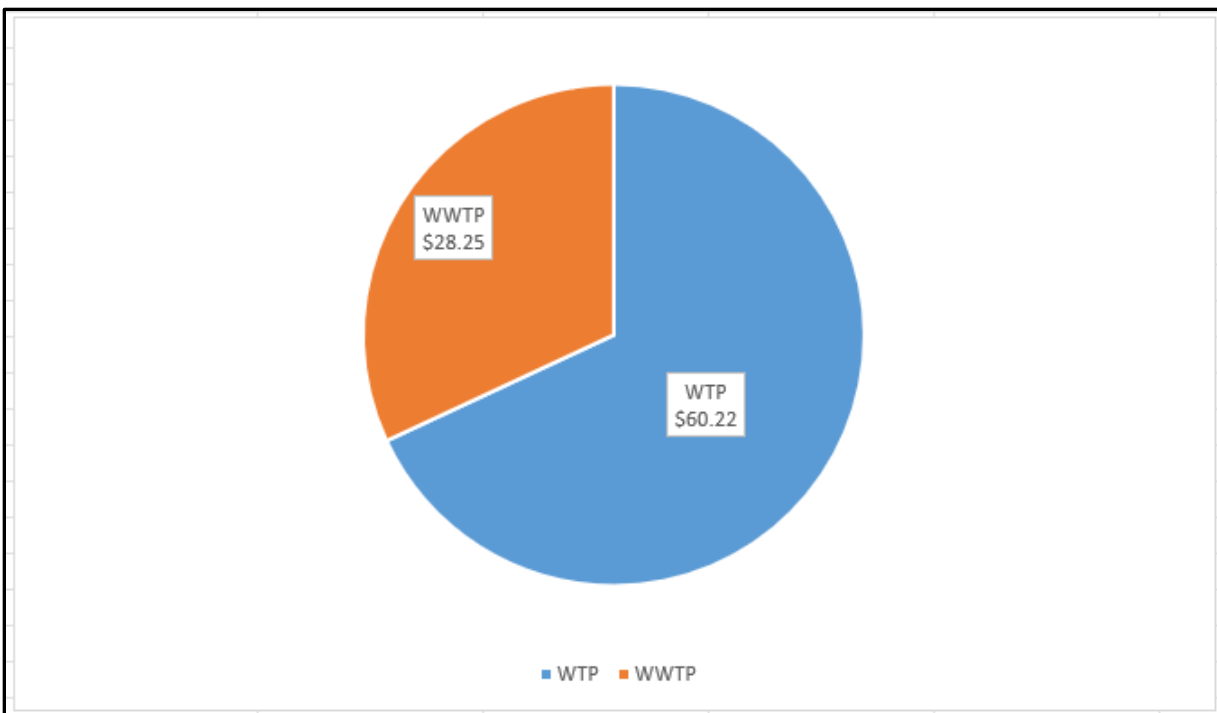


Table 1-7 provides a representative sample of notable projects slated to commence during this period.



**Table 1 7: Long-Term (2028 and beyond) Notable Projects**

<b>Asset Category</b>	<b>Project #</b>	<b>Description</b>	<b>A&amp;E Start Quarter</b>	<b>SOW Submittal Quarter</b>	<b>Total Cost Estimate</b>
<b>WTP</b>	CIP.1116011	Improvements to Barrio NuevoLT2 WTP, Municipality of Guaynabo	2028-Q1	2028-Q4	\$ 7.10
<b>WTP</b>	CIP.2076041	Rehabilitation of Arecibo Urbano WTP	2028-Q1	2028-Q3	\$ 9.39
<b>WTP</b>	CIP.2426101	Rehabilitation of Lares WTP and RWI	2028-Q1	2028-Q3	\$ 9.37
<b>WWTP</b>	CIP.2745019	Rehabilitation of Vega Alta WWTP	2028-Q1	2028-Q3	\$ 9.39
<b>WWTP</b>	CIP.3136014	Rehabilitation of Parcelas Borinquen Caguas WWTP	2028-Q1	2028-Q4	\$ 6.09
<b>WTP</b>	CIP.3276053	Rehabilitation of Fajardo WTP	2028-Q2	2029-Q1	\$ 11.51
<b>WTP</b>	CIP.3536002	Rehabilitation of Naguabo Cubuy Este- Maizales LT2 WTP	2028-Q2	2028-Q4	\$ 9.38
<b>WWTP</b>	CIP.4795022	Rehabilitation of Yauco WWTP (FAAST)	2028-Q2	2028-Q4	\$ 12.77
<b>WTP</b>	CIP.1616001	Rehabilitation of Guzman Arriba WTP and RWI, Municipality of Río Grande	2028-Q3	2029-Q1	\$ 6.77
<b>WTP</b>	CIP.2246107	Rehabilitation of Corozal Urbana WTP	2031-Q4	2032-Q2	\$ 6.70





## **1.7 Program Management**

PRASA has implemented project management standards and controls in accord with leading practices. In 2020 PRASA issued an RFQ/RFP to secure engineering firms to serve as the Project Management Consortiums for efficient and timely execution of the CIP, including the projects under this plan. Currently, PRASA has onboarded all the Consortiums.

PRASA's Infrastructure Office, with the assistance of the Consortiums, will implement leading practices following these components: solid centralized governance of the group of projects; a standard, rigorous process from project initiation to closeout for all projects in the plan; a centralized system to provide a single source of truth for all projects (with particular focus on scope, schedule, and budget); and standardized project controls across PRASA.



## Chapter 2 Introduction

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The purpose of this document is to describe further the PRASA investment plan for the next ten years using the **\$4.2 Billion** funding obligated by FEMA under the Stafford Act, Section 428 Public Assistance (428) program, and BBA. The plan starts in 2021 and is projected to end in 2030.

This plan is being submitted to COR3 and FEMA to satisfy the requirement to present a plan within 90 days of the single fixed-cost grant obligation. This plan is considered a “living document.” It requires updates and resubmissions to COR3 and FEMA every 90 days after the initial submission. Consequently, we have discussed with FEMA and COR3 during plan development to gain the best possible understanding of their requirements for this plan and to meet those requirements.

PRASA's FAASt Workplan is not subject to approval by COR3 or FEMA, nor does it secure the release of any obligated 428 funds. Instead, the plan serves as a working document to provide context for and support collaboration among PRASA, COR3, and FEMA in the process of developing and submitting individual projects for review, approval, and funds disbursement. Submission of this plan is an essential first step, followed by PRASA submitting individual project funding requests and beginning 30% design for 2021 projects. Now that the initial version of this plan has been completed and submitted, PRASA will begin requesting funding as soon as practicable.

This plan will include project funding from the FEMA 428 and 404 mitigation programs and HUD Community Development Block Grant Disaster Recovery (CDBG-DR) program.

This document will provide the requirements under their 428 work plan to COR3 and FEMA, such as:

- An overview of PRASA's infrastructure investment strategy to provide context for the selection of projects in the plan
- A prioritized list of the infrastructure projects that contain the plan with brief descriptions and class 5 cost estimates



- A section that shows the estimated timing of crucial project milestones by quarter for 2021-2023 and by year for 2024-2030
- An overview of PRASA's instrumental management of the infrastructure controls.

The projects identified in this plan and their associated schedule provide a framework for sketching the work and an expected sequence for its execution. However, ten years is a long-term planning horizon, and adjustments to this FAASt Workplan are expected as long as justified with results from studies, natural events, implementation or scheduling restrictions, or other influences.

This plan is based on the most current information available to PRASA and will be updated quarterly. With this submittal, PRASA intends to execute a set of defined, effective, multi-faceted projects to improve water and wastewater infrastructure in Puerto Rico.



## Chapter 3 PRASA’s Infrastructure Investment Strategy

### 3.1 Context

The 2017 hurricane season caused unparalleled devastation in Puerto Rico. As a result, PRASA suffered damages to water treatment facilities and other structures across the Island. After facing the damages of the 2017 events, PRASA needs to continue working to permanently repair their infrastructure with the ongoing challenges of droughts, hurricanes, earthquakes, and the current COVID-19 pandemic. PRASA has one of the most complex systems when is compared to other U.S. jurisdictions. PRASA serves more than one million customers, which is an added challenge to any decisions regarding infrastructure design and development to provide or deliver resilient and less vulnerable water and wastewater system for Puerto Rico.

Indeed, resiliency for water projects comes with the challenge of how to measure their performance. Resiliency is a topic discussed for quite some time in the water industry, but there is no official consensus measuring resiliency. Meanwhile, PRASA is committed to continuing with the recovery efforts and ensuring that future infrastructure developments consider resiliency for the significant challenges that the Island faces.

After the events of 2017, several steps set the path to transforming Puerto Rico’s water system. Some of these steps include the development of PRASA’s Strategic Plan 2020-2025 and PRASA’s Certified Fiscal Plan(s).

These steps provide the foundation for this plan. Table 3-1 illustrates the six (6) foundational components of PRASA’s FAASt Workplan.

**Table 3-1 Foundational Components of FAASt Workplan**

Components	Description
PRASA’s Vision and Mission	Since its creation in 1945, PRASA is committed to providing excellence in all aspects of the operations, including drinking water production and distribution, wastewater collection and treatment, as well as system maintenance and customer satisfaction. The



Components	Description
	goal of providing quality and reliable services has not diminished over time and will continue for years to come. As stated on its mission statement, PRASA has the mindset “to provide high-quality, safe, reliable, and affordable water and wastewater services to the people of Puerto Rico, protecting their health and the environment.”
America Water Infrastructure Act of 2018	Establishes parameters to improve drinking water and water quality, infrastructure investments, enhance public health and quality of life, increase jobs, and bolster the economy, including assessing the PRASA’s system vulnerability to several threats, including climate change and natural disasters.
Codes and Industry Standards	Rehabilitate, improve, and restore the water system following Codes and Industry Standards, including the applicable PRASA design standards, contained in the <i>Reglamento de Normas de Diseño de la AAA</i> .
PRASA’s Strategic Plan 2021-2025	Provides a roadmap to meet expected water demand over a planning horizon through the future development with specific plans to improve the reliability of the water & water waste system, beginning with the core values responsible for supporting the mission and vision as well as shaping the organization’s culture.
PRASA Certified Fiscal Plan(s)	Lays out the path for operational and financial sustainability of PRASA in order to enable the transformation of Puerto Rico’s water and wastewater system.
FEMA’s Damages Assessment Reports	Provides a description of the damages, related causes, location, and dimensions of the equipment and facilities damaged during the 2017 hurricanes and other catastrophic events.

### 3.2 Overview of Investment Strategy

PRASA leveraged the foundational components outlined in Table 3.1 and performed additional analysis to guide the project’s selection in this FAASt Workplan.

To align and guide our work, we designated five (5) investment focus areas that summarize the intent of what our projects will collectively achieve. The investment focus areas are as follows in Table 3-2.



**Table 3-2: Investment Focus Areas**

Focus Area	Description
<b>Public Health &amp; Environmental Protection</b>	<p>Ensure to provide a high-quality water service while promoting water conservation and protecting the environment and health of Puerto Rico, following:</p> <ul style="list-style-type: none"> <li>• Safe Drinking Water Act (SDWA)</li> <li>• Environmental Protection Agency (USEPA) requirements</li> <li>• Puerto Rico Department of Health (PRDH)</li> <li>• Clean Water Act (CWA)</li> </ul>
<b>Codes and Industry Standards</b>	<p>Ensure compliance with applicable laws and regulations and alignment with consensus-based codes and standards. Examples include:</p> <ul style="list-style-type: none"> <li>• American Water Works Association (AWWA)</li> <li>• National Fire Protection Association (NFPA)</li> <li>• American Society of Testing and Materials (ASTM)</li> <li>• National Standards Foundation (NSF)</li> <li>• International Code Council (ICC)</li> <li>• <i>Reglamento de Normas de Diseño de la AAA</i></li> </ul>
<b>Reliability and System Resiliency</b>	<p>Ensure the required investment in necessary technology and infrastructure to restore the system, enhance resiliency, and establish an efficient and safe water system that provides reliability for customers.</p>
<b>Hazard Mitigation</b>	<p>Ensure to provide long-term solutions that reduce the PRASA’s infrastructure impact of future events and minimize disaster losses and the water system vulnerability.</p>
<b>Modernization and Maintenance</b>	<p>Modernize and maintain PRASA’s infrastructure to optimize its operational efficiency, protect public health, safeguard the environment and promote continued economic development.</p>



## **Chapter 4 PRASA's Prioritized Infrastructure Projects**

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### **4.1 Overview**

This section of PRASA's FAASt Workplan categorizes each project in the plan as to priority. The three priority categories are near-term (2021-23 start), mid-term (2024-27 start), and long-term (2028 or later start).

We established several criteria and considerations to assign projects to categories. Project start, for this prioritization, was defined as when 30% of design work should begin. A & E work is PRASA's first standard milestone for projects in its infrastructure plan.

In this section, each priority category has a description of the type of infrastructure projects contained within it, a summary overview of the number and estimated costs of projects in the priority category broken down by asset type, and an overview of the estimated timing for submission of projects to COR3 and FEMA. Following these overviews are a series of tables containing the name, brief description, estimated COR3 and FEMA submission timing, and class 5 cost estimate for each project in the priority category.

Under direction from COR3 and FEMA, PRASA will update this plan every 90 days after the initial submission and will update project details and prioritization based on coordination with COR3 and FEMA, its internal findings, and feedback from other stakeholders.

### **4.2 Asset Category Descriptions**

Table 4-1 outlines each asset category contained in this plan and characterizes the types of projects found within each category:



**Table 4-1: List of Assets Descriptions**

Asset Category	Description
<p><b>WTP</b></p>	<p>114 WTP, with capacity ranges from 0.14 to 100 million gallons per day (MGD) with a median and average treatment capacity of 1.2 and 5.1 MGD. After Hurricane María one (1) WTP was closed. The WTP are classified by the type of treatment, with 1% using direct filtration, 92% dual filtration, and 7% membranes. These WTP and the RWI suffered widespread damages caused by flooding, wind, flood transported debris, wind-driven rain, wind-driven debris, falling trees, sediment accumulation, power interruption, and other damages caused by the hurricane. The damaged process components and equipment are necessary for these WTP’s operation so the treated water may be distributed as potable water. Damaged process equipment includes (but is not limited to) pumps, screens, clarifiers, package plants, media filters, membrane systems, chlorination systems, UV disinfection, sludge thickeners, sludge filters, and sludge drying beds. Additionally, support (ancillary) items required to operate the WTP were damaged, including (but not limited to) instrumentation, telemetry, process control (SCADA), power (and backup power), piping, channels, valves, buildings, covers, roofs. Sitewide items that are part of the WTP but not associated with the process components or necessary to treat the water also suffered widespread damages. Damaged non-process items include (but are not limited to) fencing, lighting (interior and exterior), paint, HVAC system, furnishings, materials, various non-process equipment (e.g., for landscaping and housekeeping), and buildings not used for the protection of process equipment.</p>
<p><b>WWTP</b></p>	<p>51 facilities, with capacity ranges from 0.09 to 144 million gallons per day (MGD) with a median and average treatment capacity of 1.3 and 10.6 MGD. They are classified by the degree of treatment (primary, secondary, or tertiary) and the specific type of biological treatment used. For all 51 WWTP, 12% carry out only primary treatment, 70.5% carry out secondary treatment, and</p>





Asset Category	Description
	<p>17.5% tertiary treatment. For the 51 WWTP, 12% do not carry out biological treatment (primary treatment only), 59% use activated sludge, 14% use trickling filters, and 14% use biological nutrient removal. One WWTP uses rotating biological discs for biological treatment. These WWTPs suffered widespread damages caused by flooding, wind, flood transported debris, wind-driven rain, wind-driven debris, falling trees, sediment accumulation, power interruption, and other damages caused by the hurricane. The damaged process components and equipment are necessary for these WWTPs, so the treated wastewater may be discharged to surface waters. Damaged process equipment includes (but is not limited to) pumps, influent structures, screens, grit removal, primary clarifiers, activated sludge systems, oxidation ditches, package plants, trickling filters, secondary clarifiers, coarse media filters, chlorination/dichlorination systems, UV disinfection, sludge thickeners, anaerobic and aerobic digesters, sludge filters, and sludge drying beds. Additionally, support (ancillary) items required to operate the WWTP were damaged, including (but not limited to) instrumentation, telemetry, process control (SCADA), power (and backup power), piping, channels, valves, buildings, covers, and roofs. Sitewide items that are part of the WWTP but not associated with the process components or necessary to treat the wastewater also suffered widespread damages. Damaged non-process items include (but are not limited to) fencing, lighting, paint, HVAC system, furnishings, materials, various non-process equipment (e.g., for landscaping and housekeeping), and buildings not used for the protection of process equipment.</p>
<p><b>WWPS</b></p>	<p>799 WWPS, also called wastewater lift stations, are used to deliver wastewater collected in the trunk sewers from a lower to a higher elevation through a force main. The force main allows the wastewater to flow by gravity</p>



Asset Category	Description
	<p>to the WWTP or another WWPS. The wastewater is usually stored in and pumped from an underground storage pit called a wet well. These WWPS suffered widespread damages caused by flooding, wind, flood transported debris, wind-driven rain, wind-driven debris, falling trees, sediment accumulation, power interruption, and other damages caused by the hurricane. The damaged components and equipment are necessary for the operation of these WWPS that deliver wastewater to the WWTP. Damaged process equipment includes (but is not limited to) pumps, instrumentation, telemetry, process control, power (and backup power), piping, valves, buildings, covers, and roofs. Items that are part of the WWPSs but not associated with the process components or necessary to deliver the wastewater also suffered widespread damages include (but are not limited to) fencing, lighting, paint, HVAC system, various non-process equipment (e.g., for landscaping and housekeeping), and buildings not used specifically for the protection of process equipment.</p>
<p><b>WPS</b></p>	<p>468 WPS, used to deliver water to WST, WTP, and the drinking water distribution system. WPS is required when there is insufficient pressure to deliver the water by gravity alone. WPS can deliver raw untreated water to a WTP or treated potable water to the distribution system, including WST. These WPS suffered widespread damages caused by flooding, wind, flood transported debris, wind-driven rain, wind-driven debris, falling trees, sediment accumulation, power interruption, and other damages caused by the hurricane. The damaged components and equipment are necessary for the operation of these WPS used to deliver water. Damaged equipment includes (but is not limited to) pumps, motors, valves, piping, instrumentation, telemetry, process control, and power. Items that are part of the WPS facilities but not directly associated with the process components or necessary to deliver</p>



Asset Category	Description
WST & WPS	<p>the water also suffered widespread damages including, (but not limited to) fencing, lighting, paint, HVAC system, various non-process equipment (e.g., for landscaping and housekeeping), and parts of the building not used specifically for the protection of process equipment.</p> <p>808 WST &amp; WPS, used when both the water storage tank and the water pumping station are located together in a single site. These contain pumps and motors, valves, piping (both buried and above ground), instrumentation, telemetry, controls, power, and a protective building or enclosure. The water storage tank also requires a check valve to keeps water from flowing back into the treatment plant and overflow piping to protect the storage tank from being overfilled. These WST &amp; WPS suffered widespread damages caused by flooding, wind, flood transported debris, wind-driven rain, wind-driven debris, falling trees, sediment accumulation, power interruption, and other damages caused by the hurricane. The damaged components and equipment are necessary for the operation of the WST &amp; WPS that store and deliver treated potable water. Damaged equipment includes (but is not limited to) pumps, motors, valves, check-valves, piping, instrumentation, telemetry, process control, power, tank roofing membrane, roof tank access hatches, roof access ladders, and safety cages. Items that are part of the WST &amp; WPS facilities but not directly associated with the process components or necessary to store and deliver the water also suffered widespread damages including, (but not limited to) fencing, lighting (interior and exterior), paint, HVAC system, various non-process equipment (e.g., for landscaping and housekeeping), and buildings or parts of the building not used for the protection of process equipment.</p>
WST	<p>997 WST is used to store treated potable water to use on-demand. The storage also provides extra capacity in case of a failure of the water treatment plant. The WST is usually elevated above the drinking water distribution</p>



Asset Category	Description
	<p>system to provide sufficient pressure for distribution. The WST also requires a check valve to keep water from flowing back into the source and overflow piping to protect the WST from being overfilled. These WST suffered widespread damages caused by flooding, wind, flood transported debris, wind-driven rain, wind-driven debris, falling trees, sediment accumulation, power interruption, and other damages caused by the hurricane. The damaged components and equipment are necessary for the operation of these WSTs used to store raw water. Damaged equipment includes (but is not limited to) check-valves, piping, instrumentation, telemetry, process control, power (and backup power), tank roofing membrane, roof tank access hatches, roof access ladders, and safety cages. Items that are part of the WST facilities but not directly associated with the process components or necessary to deliver the water also suffered widespread damages including, (but not limited to) fencing, lighting, paint, HVAC system, various non-process equipment (e.g., for landscaping and housekeeping), and buildings not used specifically for the protection of process equipment.</p>
<p><b>Ocean Outfalls</b> <b>(OO)</b></p>	<p>PRASA owns and operates twelve (12) Ocean Outfall Diffuser Systems. The up-stream treatment plants discharge treated effluent through a piping system terminating in a high-rate diffuser (herein system). The systems typically extend from ¼ mile to ¾ miles offshore and terminate with rate diffusers. The piping system is buried and has a rock protection layer. The diffusers vary from a straight line to a branched configuration (Tor V) with risers and ported outlets that are exposed. Ported outlets disperse the effluent at an average depth between 75 to 150 feet below low water sea level. Wave action and underwater currents developed from Hurricane-force winds (María) caused erosion and displacement of the facility (s).</p>



Asset Category	Description
<p><b>Dams (D)</b></p>	<p>PRASA operates and maintains eight (8) major Dams throughout Puerto Rico. La Plata in the North Region, Carraízo and Las Curías in the Metro Region, Toa Vaca in the South Region, Cidra, Rio Blanco and Fajardo in the East Region and <i>Lago Regulador de Isabela</i> in the West Region. La Plata and Carraízo are concrete dams with gated controlled spillways. Cidra is a concrete dam with an ungated overflow-type spillway. Toa Vaca is an earth/rock embankment dam with a gated controlled spillway. Las Curías, Rio Blanco and Fajardo are earth/rock embankment dams with ungated overflow-type spillway. For these facilities, the water source is a tributary. In the case of La Plata, Carraízo, Las Curías, Toa Vaca, and Cidra, rivers flow directly into the reservoirs. In the case of Rio Blanco and Fajardo there is an Intake Structure at the rivers that collects and supplies raw water to the reservoirs through a pipe. The primary purpose of all these reservoirs, formed by dams, is storing, and collecting raw water for its supply to Water Treatment Plants (except for Las Curías). Some of the damages on the Island Wide Dams were as follow: damages on Actuators, Antennas, Dam Alarms, Cameras, Controls, Doors, A/C Units, Electrical Components, Fencing, Floodgate Components, Floors, Geotextile for Embankment, Intake Components (Slide Gates), Lighting, Motors, Machine Elements, Pavement, Pumps, Reservoir Air Injection System, RipRap Armoring for Embankment, Roofs, Slope Failure (Erosion/Scouring), Valves, Walls, and Windows.</p>
<p><b>Reservoirs (R)</b></p>	<p>PRASA has eight main reservoirs across Puerto Rico and multiple other surface water storage facilities (lakes and basins). The reservoirs are created by impounding (capturing) surface water runoff with concrete or embankment dams. The current purpose of these facilities is to store water for its raw water supply to water treatment plants, providing potable water to the public. Due to the disaster event, heavy sedimentation impacted these four reservoirs: Toa</p>



Asset Category	Description
	<p>Vaca, Cidra, Carraízo, and La Plata. Additionally, one (1) surface water storage facility (lake), <i>Lago Regulador de Isabela</i> has some scour damages due to María Hurricane. As part of PRASA’s FAASt Workplan, the target is to remove sediments deposited in the assets and repair the facility lake -<i>Lago Regulador de Isabela</i>.</p>
<p><b>Buildings (B)</b></p>	<p>PRASA manages 91 building facilities grouped by the function: Commercial, Operational, Laboratory, Administrative, Warehouse, and Maintenance. The facilities suffered widespread damages caused by wind-driven rain, wind-driven debris, flooding, flood transported debris, the impact from fallen trees, ground erosion, and other hurricane-related impacts. Damages include roof cover breakage, delamination, and in some instances, total loss of roofing systems which allowed continuous water infiltration. Hurricane conditions also caused the forceful removal of windows and doors, which further contributed to water infiltration and caused violent internal wind pressure, resulting in further structural damage. Water infiltration, structural failure, and invasive wind caused secondary damage to interior building components, such as lighting, furnishings, finish materials, equipment, heating, ventilation, air conditioning (HVAC) systems, electrical systems, fire alarm systems, suspended ceiling systems, and floor coverings. Sustained power loss, caused by island-wide electrical utilities' total failure, resulted in a lack of humidity control inside the buildings, which allowed mold to grow in gypsum board walls, ductwork, throughout building insulation, and other components. High winds, wind-driven rain, and windblown debris damaged paint, exterior wall fixtures, antennas, and other exterior elements. The extreme conditions also damaged exterior site components such as lighting poles, fences, gates, and the groundwork.</p>



Asset Category	Description
<p><b>Raw Water Wells (RWW)</b></p>	<p>PRASA owns 269 Raw Water Wells, used to extract groundwater by submersible pumps that deliver the raw water to the surface through a pipe casing. The concrete sealing, which surrounds the metal pipe, and a concrete wellhead at the surface protect the well. The extracted raw water may require treatment before being used as drinking (potable) water. The completion of treatment requires either using on-site disinfection or at a WTP. The raw or disinfected water can be delivered to a Water Storage Tank (WST) or delivered directly to a WTP. If the WTP is at a higher elevation, a Water Pumping Station (WPS) will deliver the raw water to the WTP. These Wells suffered widespread damages caused by flooding, wind, flood transported debris, wind-driven rain, wind-driven debris, falling trees, sediment accumulation, power interruption, and other damages caused by the hurricane. The damaged components and equipment are necessary for these Wells' operations that deliver raw water to the WTP or WST. Damaged process equipment includes (but is not limited to) pumps, instrumentation, chlorinators, telemetry, process control, power (and backup power), piping, valves, buildings, covers, and roofs. Items that are part of the Well facilities but not directly associated with the process components or necessary to deliver the water also suffered widespread damages including, (but not limited to) fencing, lighting, paint, HVAC system, various non-process equipment (e.g., for landscaping and housekeeping), and buildings not used specifically for the protection of process equipment.</p>
<p><b>Transmission and Distribution Water Lines (T&amp;D-WL)</b></p>	<p>It consists of an estimated 15,148 miles of potable water lines and water distribution lines in diameters ranging from 1” to 84” and in a wide variety of materials. The water transmission lines are pipes, valves, air relief valves, and meters that deliver the raw, untreated water to the WTP. The Water Distribution Lines are a series of pipes, valves, air relief valves, fire hydrants,</p>



Asset Category	Description
	<p>and water meters that deliver the treated potable water from the WTP to the consumers. These water lines suffered widespread damages caused by erosion, flooding, flood transported debris, wind-driven rain, wind-driven debris, falling and uprooted trees, sediment accumulation, power interruption, and other damages caused by the hurricane.</p>
<p><b>Water Meters (WM)</b></p>	<p>872,596 each of the WM are part of the Potable Water Lines Distribution. A water meter or hydrometer is a device that allows for counting the volume of water passing through it. It is often used in water supply conductions of residential and industrial installations to make charges to users. These Water Meters suffered widespread damages to the strainers (filters), metering pistons, and non-return (backflow prevention) valves. The hurricane caused blockage and accumulation of debris and sediment by interruption of service, significant fluctuations in pressure, water hammer, backflow, and other damages. The damaged components and equipment are necessary for these Water Meters to accurately measure the flow of and allow passage of potable water delivered to the consumer.</p>
<p><b>Trunk Sewer Lines (TSL)</b></p>	<p>TSL’s consist of an estimated 5,994 miles of sewer pipes in diameters ranging from 4’to 90” and in a wide variety of materials. The sewer system collects sewage and wastewater from households, commercial businesses, and industries and delivers the wastewater to a wastewater treatment plant (WWTP) through a series of pipes. Maintenance holes connect this series of pipes. These concrete sewer pipes suffered widespread damages caused by flooding, wind, flood transported debris, wind-driven rain, wind-driven debris, falling trees, sediment accumulation, power interruption, and other damages caused by the hurricane. The damaged components and equipment are necessary for the sewer system's operation that delivers wastewater to the WWTP. Damaged equipment includes (but is not limited to) pipes (gravity</p>





Asset Category	Description
	and pressure), maintenance holes, risers, covers, siphons, pipe supports, and eroded topsoil and roadways.
<b>Telemetry (T)</b>	Telemetry System along with PRASA facilities, WTP, WWTP, WWPS, WPS, WST, WST & WPS, and RWW Islandwide. The telemetry system, usually done by wireless communication, can also be done through other means such as telephone, computer networks, fiber optic link, among others. Ranging from motorsport, aviation, astrology, agriculture, the oil industry, medicine, and even biology, telemetry has various utilities. Telemetry aims to allow the mediation of physical or chemical magnitudes, know the state of processes and systems, and remotely control the operation, correct errors, and send the information collected towards an information system for use and benefit. Telemetry helped identify widespread damages caused by hurricanes along the island.
<b>Projects Pending to determine (PPTD)</b>	PRASA is evaluating other projects covered under the FEMA 428-funding obligation to mitigate risks along with several facilities on the system. PRASA will determine the projects in the near future.

### 4.3 Project Prioritization Approach

After identifying projects, PRASA prioritized them in groups based on safety, impact to the community, the relative complexity of the work, and regulatory requirements.

### 4.4 Near-Term Category Overview

The near-term priority category is composed of projects that have either already begun design (A &E) or are expected to do so in 2021-2023.



PRASA intends to pursue a significant proportion of its projects in the near-term for several reasons:

1. It is PRASA’s objective to deliver results as quickly as possible,
2. Some projects already have preliminary engineering and are ready to proceed into the 30% design phase
3. Some projects are substantial in scope and must be initiated in the near-term years.

In the following section, we provide this information on near-term priority projects; Table 4-2 explains this information.

**Table 4-2: Provided Project Information**

Section	Plan Information Provided
1. Description of projects	An overview of the projects in the priority category and the approach used to designate them, organized by asset type
2. Summary of projects	Number of projects by asset category and start year, along with total dollars by asset category
3. COR3 and FEMA submission timeline	Estimated timeline for SOW submittal to indicate the number of projects for each year and asset category
4. List of projects	Project name, a brief description, estimated submittal timing, estimated cost, and CIP # for each project included in the plan

### **4.4.1 Description of Near-Term Priority Projects**

Near-term projects mainly consist of the rehabilitation of damages to PRASA assets incurred during the 2017 hurricanes. It includes all projects in the application submitted under the FEMA 428 program. PRASA's target is to rehabilitate and improve all these assets following industry standards without regard to pre-disaster conditions and restore components not



damaged by the disaster when necessary to restore the facility function. The projects included in the near-term priority are as follow:

### **WTP & WWTP**

Near-term WTP & WWTP projects mainly consist of the rehabilitation of damages incurred during the 2017 hurricanes at numerous facilities. Due to these facilities' size and complexity, each facility will constitute one (1) project for this plan.

PRASA's WTP consist of 113 assets located Islandwide, including the RWI (after Hurricane Maria, one (1) WTP was closed). PRASA reported that each of the 114 WTP suffered some form of disaster damage, classified as follows: minor (6% of all 114 WTP), moderate (59%), or severe (35%). As part of this plan, PRASA includes eighty-one (81) WTP to be rehabilitated. As part of the near-term period (Third Revision), PRASA proposes to start forty-nine (49) WTP projects.

PRASA WWTP consists of 51 assets along the island. PRASA reported that each one of the facilities suffered some disaster damage: minor (23%), moderate (53%), or severe (24%). As part of this plan, PRASA includes thirty-three (33) WWTP to be rehabilitated. As part of the near-term period, PRASA is proposing to start twenty-four (24) WWTP projects

### **WWPS, WPS, WST&WPS, WST and RWW**

PRASA's WWPS consists of 799 facilities throughout the island. Part of this plan is considering that at least 40% of the facilities suffered moderate or severe damages, which results in at least 320 WWPS needing rehabilitation and improvement. As part of this workplan revision, PRASA has identified sixteen (16) projects in this category. One (1) project is identified as Rehabilitation to PRASA WWPS Islandwide LS Project (FAASt). This project may be divided in the future into several projects by PRASA's regions, in which each project may contain several WWPS facilities. For this plan, PRASA is scheduling to start eleven (11) projects identified in this category (WWPS) as part of a near-term period between the years 2021 to 2023.



PRASA's WPS consists of 468 facilities. Part of this plan considers that at least 20% of the facilities suffered moderate or severe damages, which will result in at least 94 WPS needing rehabilitation and improvement. As part of this workplan revision, PRASA has identified sixteen (16) projects in this category; one of these projects is named Rehabilitation to PRASA WPS Islandwide LS Project (FAAST). This project may be divided soon into several projects by PRASA's regions, and each project may contain several WPS facilities. For this plan, PRASA is scheduling to start twelve (12) WPS projects in the near-term period.

PRASA's WST consists of 997 storage tanks located Islandwide. Part of this plan considers that at least 30% of the facilities suffered moderate or severe damages that will result in at least 300 WST needing rehabilitation or improvement. As part of this workplan revision, PRASA has identified twelve (12) projects in this category. One (1) of the projects is identified as the Rehabilitation to PRASA WST Islandwide LS Project (FAAST), which may be divided soon into several projects. As part of this plan, PRASA is scheduling to start ten (10) projects under this category (WST) as part of the near-term period.

PRASA's WST & WPS consists of 808 assets located throughout the island. Part of this plan considers that at least 20% of the facilities suffered moderate or severe damages, which will result in at least 162 WST & WPS needing rehabilitation or improvement. In this revision , PRASA has identified two (2) projects in this category. As part of this revision, PRASA is scheduling to start the two (2) projects under this category as part of the near-term period.

PRASA's RWW consists of 269 Wells located throughout PRASA's five regionals. As part of this workplan revision, PRASA has identified five (5) projects in this category. For this plan, PRASA is scheduling to start the RWW projects in the near-term period.

### **Ocean Outfalls (OO)**

PRASA's Ocean Outfalls consists of 12 assets, and part of this plan PRASA's target is to rehabilitate and improve all these assets following industry standards without regard to pre-disaster conditions and to restore components not damaged by the disaster, when necessary to restore the facility function. Currently, PRASA has identified three (3) projects in this



category. One (1) of the projects in this category is named Rehabilitation to PRASA OO Islandwide LS Project (FAAST), which may be divided in the future into several projects. Due to the size and complexity of these facilities, each facility may constitute one project. PRASA plans to start one (1) of the three (3) projects in this category as part of the near-term period.

### **Dams(D)**

PRASA operates and maintains eight (8) major Dams throughout Puerto Rico. Part of this plan is to rehabilitate and improve all these assets following industry standards without regard to pre-disaster condition, to restore components not damaged by the disaster, and when necessary to restore the facility function. Preliminary, PRASA has identified three (3) projects under this asset. One (1) of the projects is identified as Rehabilitation to Dams Islandwide LS Project (FAASt), which may be divided soon into several projects. Due to the size and complexity of these facilities, each facility may constitute one project. PRASA plans to start two (2) of the three (3) projects under this category as part of the near-term period.

### **Reservoirs (R)**

PRASA has eight (8) main reservoirs throughout Puerto Rico. As part of this plan, PRASA's target is to remove sediments deposited in the assets to extend the useful life of the facilities following industry standards without regard to pre-disaster conditions. Currently, PRASA has five (5) projects under this asset. One (1) of the projects is identified as Reservoir Dredging Islandwide LS Project, which may be divided soon into several projects. Carraízo Reservoir Dredging was originally included as part of this LS Project; however, currently is included as a separate project. As part of the near-term period, PRASA is planning to start the A &E in four (4) projects, including Carraízo Reservoir Dredging and Bauta Tunel.

### **Buildings (B)**

PRASA manages a total of 91 building facilities throughout five (5) regional sectors on the island. Building facilities are grouped by the function of the building: Commercial,



Operational, Laboratory, Administrative, Warehouse, and Maintenance. PRASA has claimed 41 building facilities, while 56 sites are not included in the asset group of the damage inventory. PRASA leases eight (8) of the 41 claimed building facilities, and of such leased facilities, PRASA will only claim building contents. Preliminary, PRASA has identified five (5) projects under this asset. One (1) of the projects is identified as PRASA Buildings Islandwide LS Project (FAAST), which may be divided in the near future into several projects per PRASA's regions, and each project may contain several building facilities. PRASA plans to start five (5) projects under this category as part of the near-term period.

### **Distribution and Transmission Water Lines (D&T-WL)**

PRASA has Distribution and Transmission water lines along all the island. PRASA intends to rehabilitate and improve these assets damaged by the hurricanes following industry standards. Also, to rehabilitate or improve components not damaged, when necessary, to restore the facility function. Currently, PRASA has identified fifty-three (53) projects under this asset. As part of the near-term period, PRASA plans to start fifty (50) projects under this category.

### **Water Meters (WM)**

PRASA has Distribution and Transmission water lines along all the island, and as part of this system are included the WM. PRASA's target is rehabilitation and improvement of all these assets following industry standards without regard to pre-disaster conditions, to restore components not damaged by the disaster, and when necessary to restore the facility function. Preliminary, PRASA has identified under this category one (1) project named PRASA WM Islandwide LS Project (FAAST). As part of the near-term period, PRASA plans to start the project under this category.



### **Trunk Sewer Lines (TSL)**

PRASA has sewer lines along all the island. PRASA intends to rehabilitate and improve these assets damaged by the hurricanes following industry standards. Also, to rehabilitate or improve components not damaged, and when necessary, to restore the facility function. Currently, PRASA has identified sixteen (16) projects under this category. One (1) of the projects is identified as PRASA TSL Islandwide LS Project (FAAST), which may be divided soon into several projects. As part of the near-term period, PRASA plans to start fifteen (15) projects under this category.

### **Telemetry (T)**

Telemetry System is along with PRASA facilities, WTP, WWTP, WWPS, WPS, WST, WST & WPS, and RWW Islandwide. PRASA intends to rehabilitate and improve these assets. Preliminary, PRASA has identified one (1) project under this asset. This project is named PRASA Telemetry Islandwide LS Project (FAAST), which may be divided soon into several projects. For this plan, PRASA is scheduling to start the Telemetry (T) projects between the years 2024 and 2027.

### **Projects Pending to be Defined (PPTD)**

PRASA evaluates other projects under the MAAA200 PRASA Island Wide FAASt Project. In the near future, PRASA will identify those projects. Preliminary, PRASA plans to start those projects after 2025.



## 4.4.2 Summary of Near-Term Priority Projects

The following table (Table 4-3) summarizes the volume of the near-term projects that PRASA plans to initiate (A & E Phase) and the estimated cost by asset category:

**Table 4-3: Summary of Near-Term Priority Projects (Natural Years and Cumulative Total)**

Asset Category	A & E	A & E	A & E	Total	Total Cost
	Start	Start	Start	Projects	Estimates
	2021	2022	2023		(Million)
<b>WTP</b>	12	23	14	49	\$1,221.89
<b>WWTP</b>	7	10	7	24	\$646.77
<b>WWPS</b>	1	3	7	11	\$68.85
<b>WPS</b>	1	5	6	12	\$33.25
<b>WST &amp; WPS</b>	0	1	1	2	\$1.73
<b>WST</b>	4	3	3	10	\$29.35
<b>RWW</b>	0	5	0	5	\$19.53
<b>B</b>	3	0	2	5	\$68.83
<b>OO</b>	0	0	1	1	\$26.97
<b>D</b>	1	0	1	2	\$7.74
<b>R</b>	2	1	1	4	\$124.52
<b>D&amp;T-WL</b>	1	9	40	50	\$100.82
<b>WM</b>	1	0	0	1	\$330.00
<b>TSL</b>	7	6	2	15	\$324.16
<b>T</b>	0	0	0	0	\$0.00
<b>PPTD</b>	0	0	0	0	\$0.00
<b>Total</b>	<b>40</b>	<b>66</b>	<b>84</b>	<b>191</b>	<b>\$3,004.41</b>

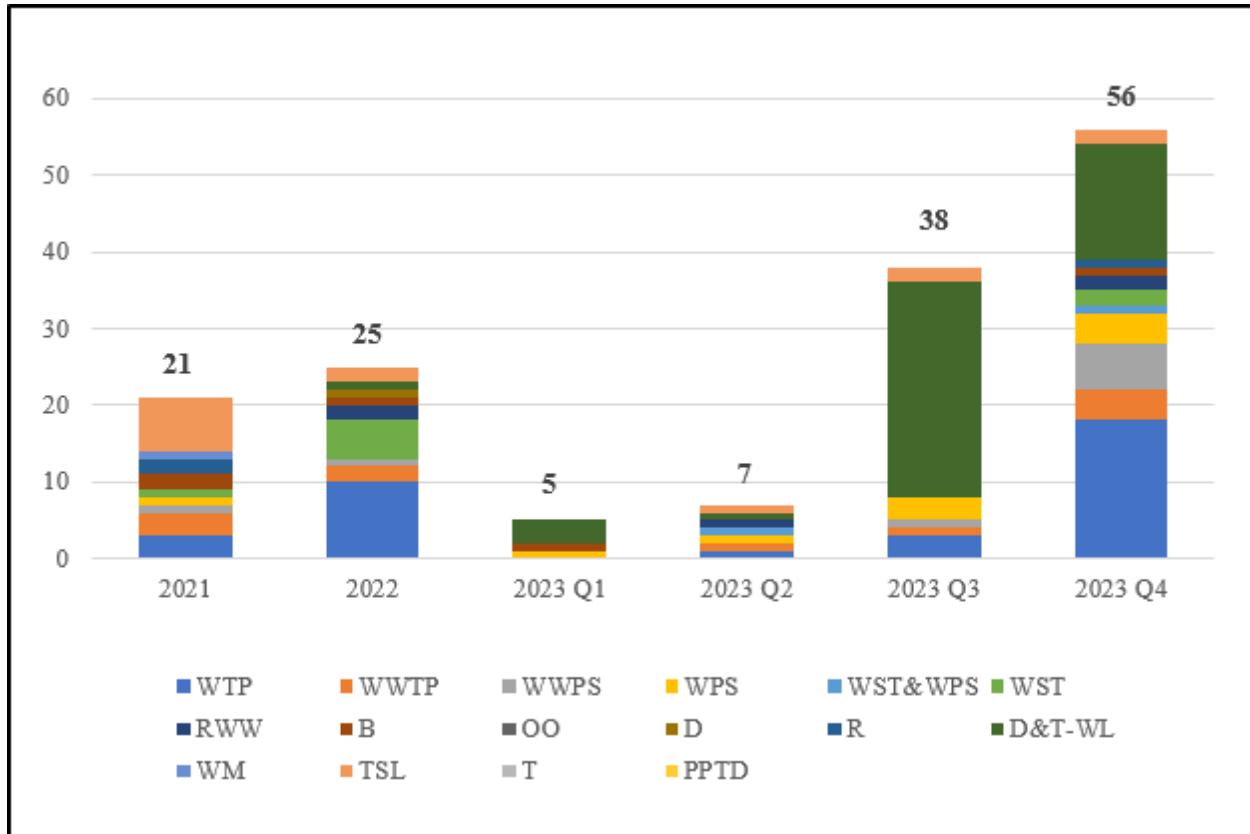




### 4.4.3 COR3 and FEMA Submissions Timeline

The following chart figure shows the estimated timeline for the submittal of individual projects to COR3 and FEMA for review and approval.

**Figure 4-1: COR3 and FEMA Near-Term SOW Project Submissions by Quarter (Natural Years)**



### 4.4.4 List of Near-Term Priority Projects

Table A-1 of Appendix A includes the complete list of projects in the near-term priority category. In addition, the Appendix identifies projects by asset category, brief description, estimated timing for submission to COR3 and FEMA for review and approval, a class 5 cost estimate, and PRASA's Construction Improvement Program number.



It is important to note that the cost estimate provided does not include potential hazard mitigation funding that may be available through FEMA’s 406 Hazard Mitigation Program. PRASA intends to submit applications for 406 funding with its 428 projects, where applicable. These additional funds will be critical to reinforcing the new infrastructure to protect against damage from future disaster events.

All projects in the tables below are funded through FEMA’s 428 programs unless otherwise noted. Also, HUD’s CDBG-DR funds will support some of the infrastructure projects contained in this plan, but the allocation of the HUD funds are yet to be tied to specific projects, which will occur in a future update of this plan.

## 4.5 Mid-Term Category Overview

The mid-term priority category is composed of projects that have either already begun design (A & E) or are expected to do so in 2024-2027.

In the sections that follow, we provide this information on near-term priority projects. Table 4-4 enumerates this information.

**Table 4-4: Project Information to be provided**

Section	Plan Information Provided
1. Description of projects	An overview of the projects in the priority category and the approach used to designate them, organized by asset type
2. Summary of projects	Number of projects by asset category and start year, along with total dollars by asset category
3. COR3 and FEMA submission timeline	Estimated timeline for SOW submittal to indicate the number of projects for each year and asset category
4. List of projects	Project name, a brief description, estimated submittal timing, estimated cost, and CIP # for each project included in the plan



## **4.5.1 Description of Mid-Term Category Overview**

Mid-term projects mainly consist of the rehabilitation of damages to PRASA assets incurred during the 2017 hurricanes. The application submitted under the FEMA 428 program, includes all projects. PRASA's target is to rehabilitate and improve all these assets following industry standards without regard to pre-disaster conditions, to restore components not damaged by the disaster, and when necessary to restore the facility function.

The projects included in the mid-term priority are as follow:

### **WTP & WWTP**

As the summary of the mid-term period, PRASA is planning to start A & E for the following projects for WTP and WWTP:

- WTP- 25 Projects.
- WWTP- 6 Projects.

### **WWPS, WPS, WST&WPS, WST and RWW**

As the summary of the mid-term period, PRASA is planning to start A & E for the following projects for WWPS, WPS, WST&WPS, WST and RWW:

- WWPS- Five (5) Projects.
- WPS-Four (4) Projects.
- WST&WPS- Cero (0) Projects.
- WST- Two (2) Projects.
- RWW- For this workplan revision, PRASA is scheduling to start the RWW projects in the near-term period.

Mid-term WWPS, WPS, WST&WPS, WST, and RWW mainly consist of the rehabilitation of damages incurred during the 2017 hurricanes at numerous facilities.



### **Ocean Outfalls (OO)**

As part of this plan, PRASA is programming to start two (2) projects as part of the mid-term period.

### **Dams (D)**

As part of the mid-term projects period, PRASA plans to start one (1) project under this category, named PRASA Dams Islandwide LS Project (FAAST), which may be divided in the future into several projects.

### **Reservoirs (R)**

As part of the mid-term projects period, PRASA is programming to start one (1) project under this category.

### **Buildings (B)**

PRASA is programming to start all the projects under this category as part of the near term period.

### **Distribution and Transmission Water Lines (D&T-WL)**

As part of the mid-term projects period, PRASA is programming to start three (3) projects under this category, named PRASA D&T-WL Islandwide LS Project (FAAST), which may be divided in the future into several projects.



### **Water Meters (WM)**

PRASA is programming to start projects under these assets as part of the near-term period.

### **Trunk Sewer Lines (TSL)**

As part of the mid-term projects period, PRASA is programming to start one (1) project under this category, named PRASA TSL Islandwide LS Project (FAAST), which may be divided in the future into several projects.

### **Telemetry (T)**

Telemetry System is along with PRASA facilities, WTP, WWTP, WWPS, WPS, WST, WST & WPS, and RWW Islandwide. PRASA intends to rehabilitate and improve these assets. Preliminary, PRASA has identified one (1) project under this category, named PRASA Telemetry Islandwide LS Project (FAAST ), which may divide this LS project into several projects. For this plan, PRASA is planning to start the telemetry projects in the mid-term period.

### **Projects Pending to be Defined (PPTD)**

PRASA is evaluating other projects under FAASt Project # 144184, MAAA200 Island Wide. In the near future, PRASA will identify those projects. Preliminary, PRASA is planning to start these projects under the mid-term period.



## 4.5.2 Summary of Mid-Term Priority Projects

The following table (Table 4-5) summarizes the mid-term project volume and the cost estimate by asset category:

**Table 4-5: Summary of Mid-Term Priority Projects (Natural Years and Cumulative Total)**

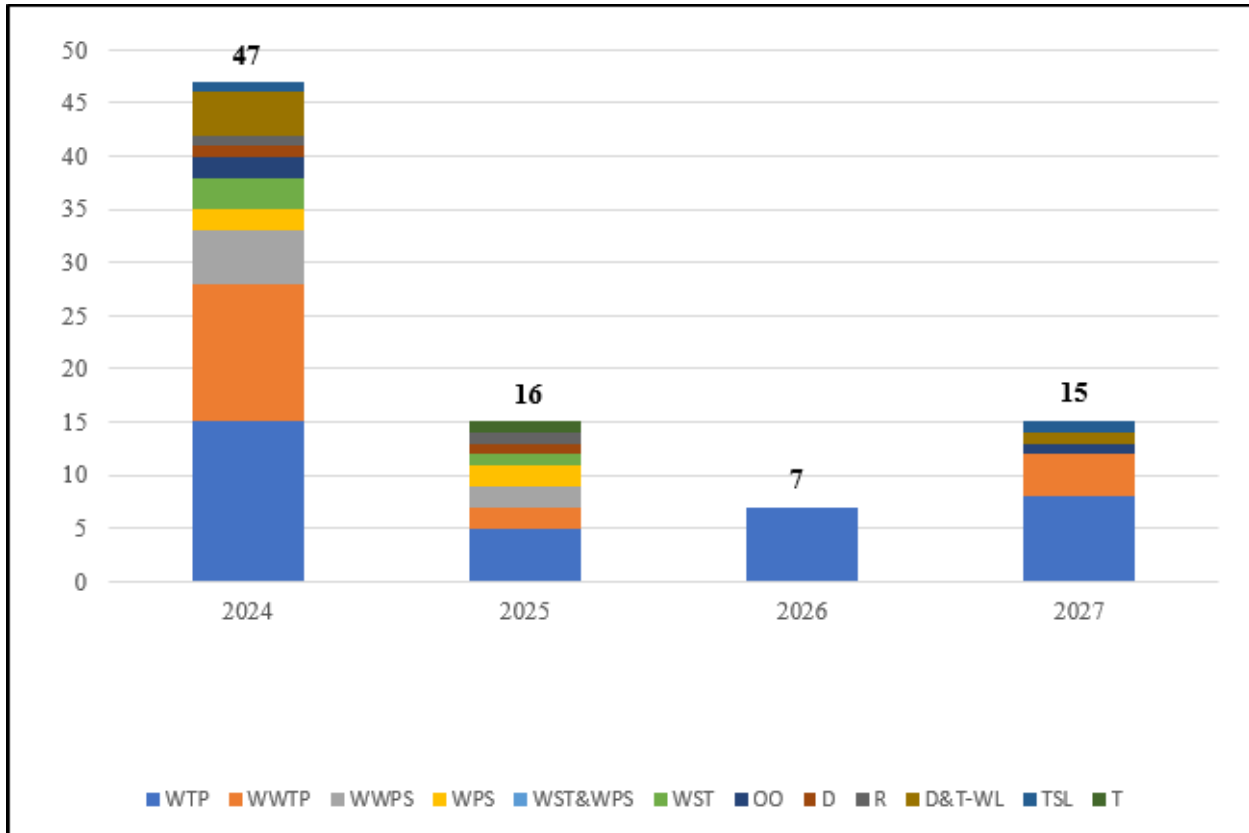
Asset Category	A & E	A & E	A & E	A & E	Total of Projects	Total Cost Estimate
	Start	Start	Start	Start		
	2024	2025	2026	2027		
<b>WTP</b>	4	5	6	10	25	\$224.29
<b>WWTP</b>	2	0	1	3	6	\$96.39
<b>WWPS</b>	4	1	0	0	5	\$47.16
<b>WPS</b>	2	1	0	1	4	\$28.14
<b>WST &amp; WPS</b>	0	0	0	0	0	\$0.00
<b>WST</b>	1	1	0	0	2	\$46.99
<b>RWW</b>	0	0	0	0	0	\$0.00
<b>B</b>	0	0	0	0	0	\$0.00
<b>OO</b>	1	0	0	1	2	\$161.79
<b>D</b>	0	1	0	0	1	\$20.00
<b>R</b>	0	1	0	0	1	\$41.00
<b>D&amp;T-WL</b>	2	0	0	1	3	\$102.24
<b>WM</b>	0	0	0	0	0	\$0.00
<b>TSL</b>	0	0	0	1	1	\$100.00
<b>T</b>	0	1	0	0	1	\$5.00
<b>PPTD</b>	0	1	0	0	1	\$103.40
<b>Total</b>	16	12	7	17	52	<b>\$976.40</b>



### 4.5.3 Mid-Term COR3 and FEMA Submission Timeline

The following bar chart (Figure 4-2) shows the estimated timeline for submittal of individual projects to COR3 and FEMA for review and approval:

**Figure 4-2:-COR3 and FEMA Mid-Term SOW Submissions by Quarter (Natural Years)**



### 4.5.4 List of Mid-Term Priority Projects

Table A-2 of Appendix A of this document includes the complete list of projects in the mid-term priority category. In addition, the Appendix identifies projects by asset category, brief description, estimated timing for submission to COR3 and FEMA for review and



approval, a class 5 cost estimate, and PRASA's Construction Improvement Program number.

It is important to note that the cost estimate provided does not include potential hazard mitigation funding that may be available through FEMA's 406 Hazard Mitigation Program. PRASA intends to submit applications for 406 funding with each of its 428 projects, where applicable. These additional funds will be critical to reinforcing the new infrastructure to protect against damage from future disaster events.

All projects in the tables below are funded through FEMA's 428 programs unless otherwise noted. Also, HUD's CDBG-DR funds will support some of the infrastructure projects in this plan. However, the allocation of the HUD funds has not yet been tied to specific projects, resulting in a future update of this plan.





## 4.6 Long- Term Category Overview

The long-term priority category comprises projects that have already begun design (A & E) or will begin in 2028-2030.

In the sections that follow, we provide this information on near-term priority projects. Table 4-6 enumerates the information presented.

**Table 4-6: Provided Project Information**

Section	Plan Information Provided
1. Description of projects	An overview of the projects in the priority category and the approach used to designate them, organized by asset type.
2. Summary of projects	Number of projects by asset category and start year, along with total dollars by asset category.
3. COR3 and FEMA submission timeline	Estimated timeline for submittal to indicate the number of projects for each year and asset category.
4. List of projects	Project name, a brief description, estimated submittal timing, estimated cost, and IRP reference section for each project included in the plan.

### 4.6.1 Description of Long-Term Category Overview

Long-term projects mainly consist of the rehabilitation of damages to PRASA assets incurred during the 2017 hurricanes. All projects are in the application submitted under the FEMA 428 program. PRASA's target is to rehabilitate and improve all these assets following industry standards without regard to pre-disaster conditions and restore components not damaged by the disaster when necessary to restore the facility function.

The projects included in the long-term period are as follow:



### **WTP & WWTP**

As the summary of the long-term period, PRASA is planning to start A & E for the following projects for WTP and WWTP:

- WTP- Seven (7) Projects.
- WWTP-Three (3) Projects.

### **WWPS, WPS, WST&WPS, WST and RWW**

As part of this plan, PRASA is planning to start all the projects related to WWPS, WPS, WST, WST&WPS, and RWW as part of the near-term and mid-term periods.

### **Ocean Outfalls (OO)**

As part of this plan, PRASA plans to start all the projects related to Ocean Outfall as part of the near-term and mid-term periods.

### **Dams(D)**

As part of this plan, PRASA plans to start all the projects related to Dams as part of the near-term and mid-term periods.

### **Reservoirs (R)**

As part of this plan, PRASA plans to start the A&E as part of the near and mid term.

### **Buildings(B)**

As part of this plan, PRASA plans to start the projects related to this asset as part of the near-term and mid-term periods.



### **Distribution and Transmission Water Lines (D&T-WL)**

PRASA is planning to start the projects related to this asset as part of the near-term and mid-term periods.

### **Water Meters (WM)**

PRASA is planning to start the projects related to this asset as part of the near-term period.

### **Trunk Sewer Lines (TSL)**

PRASA plans to start the projects related to this asset as part of the near-term and mid-term periods.

### **Telemetry (T)**

PRASA plans to start the projects related to this asset as part of the mid-term period.

### **Projects Pending to be Defined (PPTD)**

The PRASA plan is to define all the projects by the mid-term period and start the A & E before 2025.



## 4.6.2 Summary of Long-Term Priority Projects

The following table (Table 4-7) summarizes the volume of the long-term projects planned to be initiate (A & E Phase) and the estimated cost per asset category:

**Table 4-7: Summary of Long-Term Priority Projects (Natural Years and Cumulative Total)**

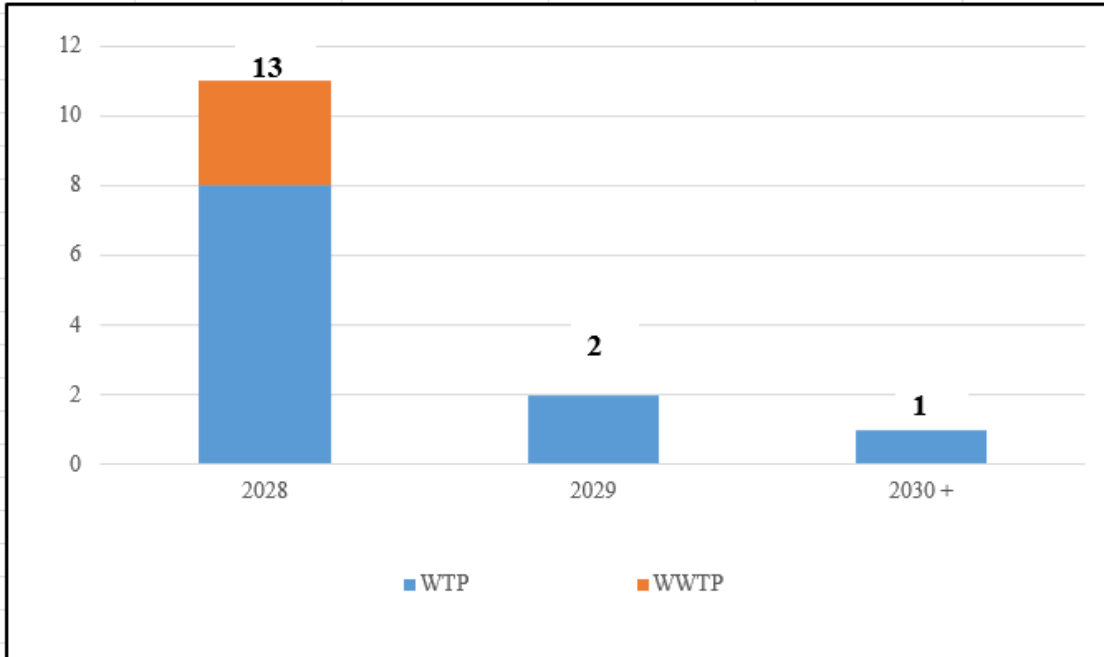
Asset Category	A & E	A & E	A & E Start	Total of	Total Cost
	Start 2028	Start 2029	2030+	Projects	Estimates
<b>WTP</b>	6	0	1	7	\$60.22
<b>WWTP</b>	3	0	0	3	\$28.25
<b>WWPS</b>	0	0	0	0	\$0.00
<b>WPS</b>	0	0	0	0	\$0.00
<b>WST &amp; WPS</b>	0	0	0	0	\$0.00
<b>WST</b>	0	0	0	0	\$0.00
<b>RWW</b>	0	0	0	0	\$0.00
<b>B</b>	0	0	0	0	\$0.00
<b>OO</b>	0	0	0	0	\$0.00
<b>D</b>	0	0	0	0	\$0.00
<b>R</b>	0	0	0	0	\$0.00
<b>D&amp;T-WL</b>	0	0	0	0	\$0.00
<b>WM</b>	0	0	0	0	\$0.00
<b>TSL</b>	0	0	0	0	\$0.00
<b>T</b>	0	0	0	0	\$0.00
<b>PPTD</b>	0	0	0	0	\$0.00
<b>Total</b>	9	0	1	10	<b>\$ 88.48</b>



### 4.6.3 Long- Term COR3 and FEMA Submission Timeline

The following bar chart (Figure 4-3) shows the estimated timeline for submittal of individual projects to COR3 and FEMA for review and approval:

**Figure 4-3: COR3 and FEMA Long-Term SOW Submissions by Quarter (Natural Years)**



### 4.6.4 List of Long-Term Priority Projects

Table A-3 of Appendix A of this document included the complete list of projects in the long-term priority category. PRASA identifies projects by asset category, brief description, estimated timing for submission to COR3 and FEMA for review and approval, a class 5 cost estimate, and PRASA’s Construction Improvement Program number.

It is important to note that the cost estimate provided does not include potential hazard mitigation funding that may be available through FEMA’s 406 Hazard Mitigation Program. PRASA intends to submit applications for 406 funding with each of its 428 projects, where



applicable. These additional funds will be critical to reinforcing the new infrastructure to protect against damage from future disaster events.

All projects in the tables below are funded through FEMA's 428 programs unless otherwise noted. Also, HUD's CDBG-DR funds will support some of the infrastructure projects in this plan. However, the allocation of the HUD funds has not tied to specific projects, resulting in a future update of this plan.



## Chapter 5 PRASA's Plan Schedule

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### 5.1 Timing Assumptions

The estimation of project time regarding the identification and prioritization of projects relies on the best information available to PRASA at the time of plan development, primarily that project formulation, based on the FEMA Five Phase National Workflow, will occur expeditiously.

Recognizing that PRASA does not yet have all the necessary details to develop detailed plans for its infrastructure projects and have precision on timing, COR3 and FEMA have identified this plan as a “living document,” one that requires an update and resubmission every 90 days after initial submittal.

The estimated timing of projects in PRASA's FAASt Workplan will be impacted by many different factors including, but not limited to, regulatory requirements and stakeholder input, improved clarity on project requirements and approach, project review and permitting processes, the availability of both labor and material resources to execute on project design and construction tasks, and potential future disaster events impacting the island. It is expected that PRASA's FAASt Workplan, including estimated project timing, will require revision as part of these regular plan updates.

It is expected that increased clarity on project requirements and approach provided from current and future engineering studies and the completion of 30% design work will result in updates to project approach and milestone timing estimates. Also, collecting as built/record drawings, asset management planning, and document control requirements will impact the design work and the project approach.

Another set of milestone timing assumptions and potential drivers of milestone timing changes are around approval and permitting processes. These include uncertainty about the amount of time required from project submission to completion of review and receipt of approval from



COR3 and FEMA. Specifically, the timing for environmental and remediation permits for each project will depend on the type of project, location, and potential impacts on environmental/social receptors, including air, water, wetlands, natural resources, and cultural and historical resources.

Lastly, milestone timing estimates assume the required labor and materials needed to support the infrastructure plan will be available; however, shortages of either, even temporarily, may cause delays and necessitate adjustments to project milestone timing estimates.

## **5.2 Estimated Project Timing Assumptions**

Each project has four major standardized milestones regarding timing:

- Begin 30% Architecture and Engineering Design (A & E)
- Submit Project to COR3 and FEMA for Review
- Begin Construction/Implementation
- Begin COR3 and FEMA Project Closeout

Appendix B shows the schedule, year by year, the work plan for major milestone initiation for the projects in the near-term, mid, and long-term periods.





## **Chapter 6 PRASA's Management Approach**

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The work needed to complete projects from their planning phase to completion requires both PRASA's internal personnel and external resources. To support PRASA in managing this plan and achieve a cost-effective way to carry out this plan, PRASA has onboard a Project Management Consortium (C). The Consortiums responsibility will be the efficient and timely execution of the CIP. All the projects included in this plan were added to PRASA's CIP.

PRASA, in coordination with the Consortiums, must establish metrics by project and monitor compliance and execution through a CIP tracking tool. Typically, the construction phase includes the highest potential for deviations in cost and time. To maintain control of these, PRASA keeps monthly track of two industry standard KPIs:

- Cost Performance Index (CPI): Measures the cost efficiency of resources committed to the project, evaluating whether the project will be completed on budget.
- Schedule Performance Index (SPI): Measures the relationship between the executed work versus the planned work, assessing whether the project will be completed on time.

The established metrics will allow for high-level monitoring of the project's execution.

PRASA Infrastructure Office, with the assistance of the Consortiums, will manage the FEMA funded projects under a governance structure that includes:

- Strong governance and oversight, by senior executives, of all projects
- Project justification is rigorous, documented, data-driven, standardized, and includes assessing costs, benefits, and alternative courses of action.
- Project authorization is grounded in a well-defined process with clear roles and responsibilities.
- Centralized approvals and oversight so that projects work together as a cohesive group of projects.



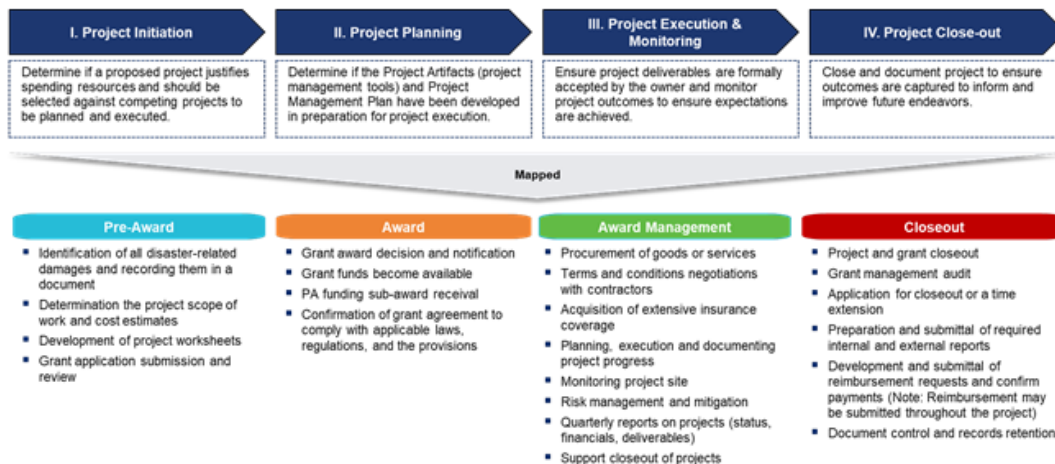
As defined by COR3, the federal grant lifecycle process (See Figure 6-1) is an end-to-end framework outlining the progression of phases and key requirements that PRASA must complete, obtain, manage, and close of Public Assistance funding sub-awards and projects.

**Figure 6-1: COR3’s Federal Grant Lifecycle**



PRASA ensures a rigorous project management process that governs all projects with clear accountabilities, consistent standards based on leading practices for managing and governing all PRASA projects. The management process has four phases for a project (See Figure 6-2), each of which has defined deliverables and documentation required to enter the next phase. To ensure compliance with local and federal guidelines and regulations, PRASA has incorporated the key requirements and associated controls to manage FEMA funds within the project management process.

**Figure 6-2: PRASA’s Management Process to Federal Grant Lifecycle**



PRASA has a Management Information System with functional architecture that provides various project management features to enable management to maintain visibility around projects in each stage of the project lifecycle from project initiation to project closeout.

PRASA has incorporated the following controls to ensure FEMA fund management guidelines are met:

- A set of quality management controls based on PRASA's quality management system.
- Plus, effective project management controls and execution procedures, including risk management, based on leading practices.
- The FEMA grant and fund management control process to ensure compliance.
- The preparation of dashboards, project reports, and monthly operating sequences.



## Chapter 7 Appendix A

### 7.1 Appendix A: Table A.1- List of PRASA Projects FAASt Near-Term

Asset Category	Project #	Description	A&E Start Quarter	SOW Submittal Quarter	Construction Start Quarter	SOW Close Out Submittal Quarter	Total Cost Estimate
<b>WWTP</b>	CIP.3305001	Improvements to Guayama WWTP (FAASt)	2021-Q1	2021-Q1	2022-Q3	2026-Q1	\$117,041,107.51
<b>WTP</b>	CIP.2017005	Rehabilitation of Culebrinas WTP	2021-Q1	2021-Q1	2023-Q2	2025-Q3	\$58,825,538.16
<b>WTP</b>	CIP.2096007	Rehabilitation of Enrique Ortega WTP	2021-Q1	2021-Q1	2023-Q1	2027-Q3	\$158,133,640.62
<b>WTP</b>	CIP.2479001	Rehabilitation of Morovis Sur RWI	2021-Q1	2021-Q1	2021-Q4	2023-Q1	\$3,691,587.95
<b>B</b>	CIP.3130001	PRASA Central Laboratory in Caguas (FAASt)	2021-Q1	2021-Q1	2020-Q4	2023-Q1	\$31,249,231.84
<b>WWTP</b>	CIP.3135079	Rehabilitation of Blowers in Caguas WWTP (FAASt)	2021-Q1	2021-Q4	2019-Q4	2023-Q1	\$5,501,527.08
<b>B</b>	CIP.3139000	Equipment for New PRASA Central Laboratory in Caguas (FAASt)	2021-Q1	2022-Q1	2023-Q1	2023-Q4	\$8,000,000.00
<b>WST</b>	CIP.3360002	Design and Build Buena Vista Tank	2021-Q1	2021-Q3	2020-Q4	2022-Q2	\$1,466,775.67
<b>TSL</b>	CIP.4089000	Rehabilitation of Arroyo-Guayama Trunk Sewer Lines (FAASt)	2021-Q1	2021-Q4	2022-Q3	2025-Q1	\$19,979,049.47
<b>WPS</b>	CIP.3369001	Design and Build Buena Vista Humacao WPS	2021-Q1	2021-Q2	2021-Q2	2021-Q2	\$342,756.83
<b>R</b>	CIP.1019000	Carraizo Reservoir Dredging	2021-Q1	2021-Q2	2023-Q1	2026-Q1	\$107,104,141.77



<b>Asset Category</b>	<b>Project #</b>	<b>Description</b>	<b>A&amp;E Start Quarter</b>	<b>SOW Submittal Quarter</b>	<b>Construction Start Quarter</b>	<b>SOW Close Out Submittal Quarter</b>	<b>Total Cost Estimate</b>
<b>WST</b>	CIP.4009001	Rehabilitation of Tanks Phase 1-South Region	2021-Q1	2022-Q1	2022-Q3	2023-Q4	\$4,049,572.94
<b>WWTP</b>	CIP.3365083	Rehabilitation of Humacao Waste Water Treatment Plant (WWTP) Sludge Treatment System (STS)	2021-Q2	2021-Q3	2022-Q2	2024-Q1	\$11,037,647.50
<b>WWPS</b>	CIP.3445009	Design and Build La Sabana Las Piedras WWPS	2021-Q2	2021-Q2	2020-Q4	2023-Q1	\$641,511.19
<b>D</b>	CIP.7776071	Rehabilitation of Toa Vaca Dam	2021-Q2	2022-Q1	2023-Q4	2025-Q1	\$3,712,278.49
<b>TSL</b>	CIP.4589003	Rehabilitation of Ponce Trunk Sewer System (FAAST)	2021-Q2	2021-Q4	2022-Q3	2025-Q1	\$15,813,421.09
<b>R</b>	CIP.5376001	Repair of Geosynthetic Membranes in Lago Regulador in Isabela	2021-Q2	2021-Q2	2024-Q1	2024-Q4	\$17,413,810.90
<b>WWTP</b>	CIP.5505028	Rehabilitation of Mayaguez WWTP (FAAST-25)	2021-Q2	2023-Q2	2023-Q3	2026-Q2	\$73,568,137.74
<b>WTP</b>	CIP.1709000	Enrique Ortega WTP- Raw Water Intake Power Generator (FEMA-404)	2021-Q2	2022-Q4	2024-Q2	2025-Q2	\$28,645,725.14
<b>WWTP</b>	CIP.1165044	Rehabilitation of Carolina WWTP FEMA (FAAST-25)	2021-Q3	2022-Q3	2023-Q3	2026-Q2	\$34,946,952.94
<b>WWTP</b>	CIP.2075073	Rehabilitation of Islote WWTP, Arecibo (FAAST)	2021-Q3	2022-Q1	2024-Q3	2026-Q1	\$29,519,290.00
<b>WTP</b>	CIP.2076042	Rehabilitation of Esperanza Arecibo WTP and RWI	2021-Q3	2022-Q1	2023-Q3	2025-Q1	\$18,146,872.94
<b>WTP</b>	CIP.2426100	Rehabilitation of Lares Nueva Espino WTP and RWI	2021-Q3	2022-Q1	2023-Q3	2024-Q4	\$13,007,191.35



<b>Asset Category</b>	<b>Project #</b>	<b>Description</b>	<b>A&amp;E Start Quarter</b>	<b>SOW Submittal Quarter</b>	<b>Construction Start Quarter</b>	<b>SOW Close Out Submittal Quarter</b>	<b>Total Cost Estimate</b>
<b>TSL</b>	CIP.1169001	Rehabilitation of Los Angeles and Loiza Pueblo Trunk Sewers (FAAST)	2021-Q3	2021-Q3	2022-Q2	2023-Q4	\$8,111,874.97
<b>WTP</b>	CIP.2739001	Rehabilitation of Lago Viví RWI	2021-Q3	2022-Q4	2023-Q4	2025-Q2	\$4,583,994.46
<b>TSL</b>	CIP.2755055	Rehabilitation of Vega Baja Trunk Sewer Lines (TSL)	2021-Q3	2021-Q4	2023-Q1	2024-Q4	\$10,411,308.96
<b>TSL</b>	CIP.3139002	Rehabilitation of Caguas Trunk Sewer Lines (FAAST)	2021-Q3	2021-Q4	2023-Q1	2025-Q2	\$32,819,858.04
<b>TSL</b>	CIP.2095052	Rehabilitation of 42 IN Trunk Sewer Line from PR-684 to the South part of Barceloneta WWTP	2021-Q3	2022-Q1	2023-Q1	2025-Q1	\$38,305,579.34
<b>WTP</b>	CIP.3366005	Rehabilitation of Humacao WTP	2021-Q3	2023-Q4	2024-Q1	2025-Q4	\$41,814,978.06
<b>WM</b>	CIP.6009002	Water Meters Islandwide LS Project (FAAST)	2021-Q3	2021-Q4	2023-Q2	2028-Q2	\$330,000,000.00
<b>WST</b>	CIP.1009001	Rehabilitation of Tanks Phase 1- Metro Region	2021-Q4	2022-Q1	2022-Q3	2024-Q4	\$4,395,315.65
<b>WTP</b>	CIP.1016095	Rehabilitation of Guaynabo WTP	2021-Q4	2023-Q4	2024-Q3	2027-Q1	\$84,706,198.06
<b>WTP</b>	CIP.2206107	Rehabilitation of Ciales Fronton WTP and RWI	2021-Q4	2022-Q2	2023-Q3	2025-Q4	\$18,917,562.52
<b>TSL</b>	CIP.2375002	Trunk Sewer Lines (TSL) Isabela - Aguada (FAAST)	2021-Q4	2022-Q3	2023-Q1	2025-Q2	\$43,911,701.23
<b>D&amp;T-WL</b>	CIP.2475022	Installation of Water Line at Río Utuado Bridge, Municipality of Utuado	2021-Q4	2022-Q1	2022-Q4	2023-Q3	\$824,041.38
<b>WTP</b>	CIP.2526006	Rehabilitation of Morovis Sur WTP	2021-Q4	2022-Q3	2023-Q3	2025-Q4	\$38,124,413.28



<b>Asset Category</b>	<b>Project #</b>	<b>Description</b>	<b>A&amp;E Start Quarter</b>	<b>SOW Submittal Quarter</b>	<b>Construction Start Quarter</b>	<b>SOW Close Out Submittal Quarter</b>	<b>Total Cost Estimate</b>
<b>WST</b>	CIP.3009001	Rehabilitation of Tanks Phase 1-East Region	2021-Q4	2022-Q1	2023-Q1	2024-Q1	\$3,776,485.00
<b>WTP</b>	CIP.4316007	Rehabilitation of Jaguas Pasto Guayanilla WTP	2021-Q4	2023-Q2	2023-Q3	2024-Q4	\$8,771,235.09
<b>WWTP</b>	CIP.4495001	Rehabilitation or Elimination of Maunabo WWTP (FAAST-25)	2021-Q4	2023-Q4	2024-Q1	2025-Q3	\$44,858,023.97
<b>B</b>	CIP.1660002	Rehabilitation of PRASA Main Building (Sede)	2021-Q4	2021-Q4	2022-Q2	2023-Q3	\$396,805.53
<b>WST</b>	CIP.2009001	Rehabilitation of Tanks Phase 1- North Region	2022-Q1	2022-Q4	2023-Q1	2025-Q2	\$6,211,559.05
<b>WWPS</b>	CIP.2039000	Rehabilitation of Guerrero 2 WWPS, Municipality of Aguadilla	2022-Q1	2022-Q1	2023-Q2	2024-Q4	\$3,906,348.98
<b>TSL</b>	CIP.2149001	Rehabilitation of Camuy Trunk Sewer Lines (FAAST)	2022-Q1	2021-Q3	2023-Q1	2027-Q3	\$68,043,511.99
<b>WTP</b>	CIP.2346015	Rehabilitation of Hatillo-Camuy WTP	2022-Q1	2022-Q2	2023-Q4	2026-Q1	\$32,576,419.68
<b>TSL</b>	CIP.2375003	Rehabilitation of Isabela TSL (Including Aguadilla WWPS Avenue and Fomento)	2022-Q1	2023-Q3	2023-Q4	2025-Q3	\$14,694,792.38
<b>WTP</b>	CIP.2426099	Rehabilitation of Lares Indiera Alta WTP and RWI	2022-Q1	2024-Q1	2024-Q2	2025-Q4	\$6,766,614.00
<b>TSL</b>	CIP.2709010	Improvements to the Teefrans TSL, Municipality of Arcibo	2022-Q1	2023-Q2	2023-Q4	2024-Q3	\$6,012,151.30
<b>WWTP</b>	CIP.3139001	Improvements to Caguas WWTP (FAAST-25)	2022-Q1	2023-Q4	2023-Q4	2025-Q2	\$24,438,849.00



<b>Asset Category</b>	<b>Project #</b>	<b>Description</b>	<b>A&amp;E Start Quarter</b>	<b>SOW Submittal Quarter</b>	<b>Construction Start Quarter</b>	<b>SOW Close Out Submittal Quarter</b>	<b>Total Cost Estimate</b>
<b>WTP</b>	CIP.3156093	Rehabilitation of Río Grande El Yunque WTP	2022-Q1	2023-Q3	2023-Q4	2026-Q1	\$49,732,961.73
<b>WTP</b>	CIP.3536006	Rehabilitation Naguabo Río Blanco WTP	2022-Q1	2023-Q4	2024-Q2	2026-Q3	\$24,812,121.52
<b>WWTP</b>	CIP.3765002	Rehabilitation Vieques WWTP (FAAST)	2022-Q1	2023-Q2	2023-Q4	2026-Q3	\$28,580,695.55
<b>RWW</b>	CIP.4009106	Rehabilitation of Raw Water Well Phase 1- South Region	2022-Q1	2022-Q3	2023-Q2	2025-Q2	\$3,696,996.49
<b>WWTP</b>	CIP.4555022	Rehabilitation of Orocovis WWTP (FAAST-25)	2022-Q1	2024-Q1	2024-Q2	2025-Q2	\$13,701,647.21
<b>WWTP</b>	CIP.4695042	Rehabilitation of Santa Isabel WWTP (FAAST)	2022-Q1	2024-Q1	2024-Q1	2025-Q4	\$14,136,725.69
<b>WTP</b>	CIP.4776078	Rehabilitation of Jagueyes Villalba WTP	2022-Q1	2023-Q3	2023-Q4	2025-Q4	\$20,903,153.91
<b>WST</b>	CIP.5009001	Rehabilitation of Tanks Phase 1-West Region	2022-Q1	2022-Q4	2024-Q1	2025-Q2	\$3,693,152.37
<b>WTP</b>	CIP.5379002	Guajataca Floating RWI	2022-Q1	2022-Q3	2023-Q2	2025-Q1	\$9,321,758.94
<b>TSL</b>	CIP.5509001	Rehabilitation of Hormigueros and Mayaguez Trunk Sewer Lines (FAAST)	2022-Q1	2021-Q4	2023-Q2	2025-Q4	\$26,757,205.66
<b>WTP</b>	CIP.4646004	Raw Water Wells Closure/ Salinas WTP (FEMA-404)	2022-Q1	2022-Q4	2023-Q4	2026-Q3	\$44,138,250.01
<b>WPS</b>	CIP.1009103	Rehabilitation of Water Pump Stations Tanks Phase 1- Metro Region	2022-Q2	2023-Q4	2024-Q4	2026-Q4	\$3,567,989.97
<b>WWPS</b>	CIP.1009104	Rehabilitation of Wastewater Pump Stations Tanks Phase 1- Metro Region	2022-Q2	2023-Q4	2024-Q4	2026-Q4	\$7,588,961.58





<b>Asset Category</b>	<b>Project #</b>	<b>Description</b>	<b>A&amp;E Start Quarter</b>	<b>SOW Submittal Quarter</b>	<b>Construction Start Quarter</b>	<b>SOW Close Out Submittal Quarter</b>	<b>Total Cost Estimate</b>
<b>RWW</b>	CIP.1009106	Rehabilitation of Raw Water Well Phase 1- Metro Region	2022-Q2	2023-Q4	2024-Q1	2026-Q1	\$1,878,466.00
<b>WTP</b>	CIP.1116008	Rehabilitation of Guaynabo Santa Rosa WI (FAAST-25)	2022-Q2	2023-Q4	2023-Q4	2024-Q4	\$31,726,979.79
<b>WTP</b>	CIP.1726043	Rehabilitation of Sergio Cuevas WTP	2022-Q2	2023-Q4	2024-Q3	2026-Q3	\$132,476,582.48
<b>WPS</b>	CIP.2009103	Rehabilitation of Water Pump Stations Tanks Phase 1- North Region	2022-Q2	2023-Q2	2023-Q3	2025-Q4	\$3,582,989.00
<b>WWPS</b>	CIP.2009104	Rehabilitation of Wastewater Pump Stations Tanks Phase 1- North Region	2022-Q2	2023-Q3	2024-Q2	2026-Q2	\$7,608,691.00
<b>WTP</b>	CIP.2246106	Rehabilitation of Ciales Negros WTP and RWI	2022-Q2	2023-Q3	2024-Q3	2026-Q3	\$9,037,703.23
<b>WWTP</b>	CIP.2475021	Rehabilitation of Barceloneta WWTP (FAAST-25)	2022-Q2	2024-Q2	2024-Q4	2027-Q3	\$29,804,876.00
<b>WTP</b>	CIP.2596004	Rehabilitation of Quebradillas WTP and RWI	2022-Q2	2023-Q4	2024-Q2	2025-Q4	\$8,181,050.00
<b>WTP</b>	CIP.2916002	Rehabilitation of Arecibo Superacueductos WTP	2022-Q2	2023-Q4	2024-Q1	2026-Q4	\$125,386,945.36
<b>RWW</b>	CIP.3009106	Rehabilitation of Raw Water Wells Phase 1- Este Region	2022-Q2	2022-Q4	2023-Q2	2025-Q3	\$3,602,450.04
<b>WTP</b>	CIP.3106106	Rehabilitation of Barranquitas Barrancas WTP and RWI	2022-Q2	2024-Q1	2024-Q1	2025-Q4	\$8,812,903.00
<b>WWTP</b>	CIP.3236247	Rehabilitation of Comerío WWTP (FAAST)	2022-Q2	2023-Q4	2024-Q2	2025-Q4	\$36,802,035.35



<b>Asset Category</b>	<b>Project #</b>	<b>Description</b>	<b>A&amp;E Start Quarter</b>	<b>SOW Submittal Quarter</b>	<b>Construction Start Quarter</b>	<b>SOW Close Out Submittal Quarter</b>	<b>Total Cost Estimate</b>
<b>WWTP</b>	CIP.4585096	Rehabilitation of Ponce WWTP (FAAST-25)	2022-Q2	2024-Q2	2024-Q3	2027-Q1	\$22,786,142.00
<b>RWW</b>	CIP.5009106	Rehabilitation of Raw Water Well Phase 1- West Region	2022-Q2	2023-Q4	2023-Q4	2024-Q4	\$1,616,266.67
<b>WWTP</b>	CIP.5035001	Rehabilitation of Aguada WWTP (FAAST-25)	2022-Q2	2023-Q4	2024-Q3	2027-Q2	\$22,268,890.00
<b>WWTP</b>	CIP.5415031	Rehabilitation of Lajas WWTP (FAAST)	2022-Q2	2024-Q2	2024-Q4	2026-Q4	\$12,845,238.00
<b>WTP</b>	CIP.5506047	Rehabilitation of Miradero Mayaguez WTP	2022-Q2	2023-Q4	2024-Q2	2026-Q1	\$20,458,674.00
<b>RWW</b>	CIP.2009106	Rehabilitation of Raw Water Well Phase 1- North Region	2022-Q3	2023-Q1	2023-Q3	2024-Q4	\$8,736,928.25
<b>WPS</b>	CIP.2329004	Design and Build of Rehabilitation of Water Pump Station at Ciales Pozas	2022-Q3	2023-Q1	2023-Q2	2024-Q1	\$1,594,203.48
<b>D&amp;T-WL</b>	CIP.2526008	Improvements to the Water Distribution System in Morovis (FAAST)	2022-Q3	2023-Q4	2023-Q4	2025-Q2	\$8,226,022.26
<b>D&amp;T-WL</b>	CIP.2549000	Rehabilitation of Transmission and Distribution System at Naranjito (FAAST)	2022-Q3	2023-Q4	2023-Q4	2025-Q3	\$6,400,948.00
<b>WPS</b>	CIP.3009103	Rehabilitation of Water Pump Stations Tanks Phase 1- East Region	2022-Q3	2023-Q3	2024-Q2	2026-Q3	\$7,691,879.15
<b>WTP</b>	CIP.3136012	Rehabilitation of Caguas Norte WTP	2022-Q3	2024-Q1	2024-Q2	2026-Q1	\$16,641,139.00



<b>Asset Category</b>	<b>Project #</b>	<b>Description</b>	<b>A&amp;E Start Quarter</b>	<b>SOW Submittal Quarter</b>	<b>Construction Start Quarter</b>	<b>SOW Close Out Submittal Quarter</b>	<b>Total Cost Estimate</b>
<b>WTP</b>	CIP.3156094	Replacement of RWI at Mameyes River for the Yunque WTP	2022-Q3	2022-Q4	2024-Q1	2026-Q1	\$11,334,142.03
<b>WTP</b>	CIP.3186003	Rehabilitation of Cayey El Farallon WTP	2022-Q3	2024-Q1	2024-Q1	2025-Q1	\$9,537,622.99
<b>WPS</b>	CIP.4009103	Rehabilitation of Water Pump Stations Tanks Phase 1- South Region	2022-Q3	2023-Q3	2024-Q2	2026-Q2	\$3,597,989.97
<b>WTP</b>	CIP.4576004	Rehabilitation of Malpaso Peñuelas WTP	2022-Q3	2023-Q4	2024-Q1	2025-Q4	\$9,479,992.00
<b>WTP</b>	CIP.5036006	Rehabilitation Aguadilla Montaña WTP	2022-Q3	2024-Q1	2024-Q2	2026-Q3	\$24,506,009.00
<b>WTP</b>	CIP.5486006	Rehabilitation of Monte del Estado Maricao WTP	2022-Q3	2023-Q4	2024-Q1	2025-Q4	\$6,041,379.00
<b>WTP</b>	CIP.5489001	Rehabilitation of Maricao RWI	2022-Q3	2023-Q4	2024-Q1	2025-Q4	\$7,352,224.00
<b>D&amp;T-WL</b>	CIP.7349002	Hatillo -Nuevo Sistema de Dis. Bo. Campo Alegre, Sectores 10 #NRW #JG (FAAST)	2022-Q3	2023-Q3	2025-Q2	2024-Q4	\$6,155,540.35
<b>R</b>	CIP.1009002	Carraizo Reservoir Sediment Control	2022-Q3	2023-Q4	2024-Q4	2026-Q1	\$5,239,490.77
<b>WST &amp; WPS</b>	CIP.2079004	Improvements to Cerro Marquez WPS & 2.0 MG Tank, Municipality of Arecibo	2022-Q4	2023-Q2	2024-Q1	2025-Q2	\$1,331,632.80
<b>D&amp;T-WL</b>	CIP.2269000	Improvements to Water Distribution System, Dorado/Vega Alta (Dorado Twist)	2022-Q4	2023-Q4	2023-Q4	2025-Q1	\$1,438,416.75



<b>Asset Category</b>	<b>Project #</b>	<b>Description</b>	<b>A&amp;E Start Quarter</b>	<b>SOW Submittal Quarter</b>	<b>Construction Start Quarter</b>	<b>SOW Close Out Submittal Quarter</b>	<b>Total Cost Estimate</b>
<b>D&amp;T-WL</b>	CIP.2269001	Design and Build of Rehabilitation of 4" and 2 " Water Lines Vimu Villa Community, Municipality of Dorado	2022-Q4	2023-Q2	2023-Q4	2024-Q2	\$1,066,073.33
<b>D&amp;T-WL</b>	CIP.2349003	Design and Build 16" WL, PR-119, Hatillo-Camuy	2022-Q4	2023-Q3	2023-Q4	2024-Q1	\$1,777,681.80
<b>WTP</b>	CIP.2526007	Rehabilitation of Morovis Urbano WTP	2022-Q4	2023-Q4	2024-Q1	2025-Q4	\$10,720,637.00
<b>D&amp;T-WL</b>	CIP.2709001	Design and Construction of 6" WL, El Tocon Sector, Quebrada Cruz Ward, Municipality of Toa Alta	2022-Q4	2023-Q1	2023-Q2	2024-Q2	\$935,559.18
<b>WST</b>	CIP.4009101	Rehabilitation of Tanks Phase 2-South Region	2022-Q4	2023-Q4	2024-Q1	2025-Q2	\$1,888,466.67
<b>WTP</b>	CIP.4016012	Rehabilitation of Adjuntas Guilarte WTP	2022-Q4	2024-Q1	2024-Q3	2026-Q2	\$6,731,802.00
<b>TSL</b>	CIP.4299000	Rehabilitation of Barriada Esperanza Guanica Trunk Sewer System	2022-Q4	2023-Q4	2024-Q1	2025-Q1	\$5,519,207.69
<b>D&amp;T-WL</b>	CIP.4559002	Rehabilitation of WL El Gato Ward, Orocovis, PR (FAAST)	2022-Q4	2023-Q1	2023-Q1	2024-Q4	\$972,452.93
<b>WWTP</b>	CIP.4575005	Rehabilitation of Peñuelas WWTP (FAAST-25)	2022-Q4	2024-Q2	2024-Q3	2025-Q4	\$37,060,621.56
<b>D&amp;T-WL</b>	CIP.4589006	Rehabilitation of WL La Yuca Sector, Ponce, PR (FAAST)	2022-Q4	2023-Q1	2023-Q2	2024-Q4	\$1,294,505.24
<b>TSL</b>	CIP.5685000	Replacement of Trunk Sewer Lines (TSL) in San Sebastián (FAAST)	2022-Q4	2023-Q4	2024-Q4	2026-Q4	\$24,944,316.48



<b>Asset Category</b>	<b>Project #</b>	<b>Description</b>	<b>A&amp;E Start Quarter</b>	<b>SOW Submittal Quarter</b>	<b>Construction Start Quarter</b>	<b>SOW Close Out Submittal Quarter</b>	<b>Total Cost Estimate</b>
<b>D&amp;T-WL</b>	CIP.1019001	Rehabilitation of D&T-WL Bo. Sonadora, Renacer Sector and Mansiones, Municipality of Guaynabo	2023-Q1	2023-Q3	2023-Q4	2024-Q2	\$488,066.55
<b>D&amp;T-WL</b>	CIP.1019002	Replacement of 2" WL Pipe, Camino Los Bigios Sector, Caimito Ward, Municipality of San Juan	2023-Q1	2023-Q3	2023-Q4	2024-Q2	\$441,021.59
<b>D&amp;T-WL</b>	CIP.1019003	Replacement of WL Pipe, Ponce De Leon Avenue, Amelia Ward, Municipality of Guaynabo	2023-Q1	2023-Q3	2023-Q4	2024-Q4	\$2,025,099.87
<b>D&amp;T-WL</b>	CIP.1019004	Replacement of WL Pipe, El Gato Sector at PR-834, Municipality of Guaynabo	2023-Q1	2023-Q3	2023-Q4	2024-Q2	\$819,289.91
<b>D&amp;T-WL</b>	CIP.1115069	Replacement of WL Pipe, La Pra Sector and Los Fonsecas, Buana Vista Ward, Municipality of Bayamón	2023-Q1	2023-Q4	2023-Q4	2024-Q3	\$1,069,408.33
<b>D&amp;T-WL</b>	CIP.1115070	Replacement of WL Pipe, Doña Concha Community, Municipality of Bayamón	2023-Q1	2023-Q4	2023-Q4	2024-Q3	\$466,003.33
<b>D&amp;T-WL</b>	CIP.1115071	Construction of WL Infrastructure, Los Fonseca Sector, Cerro Gordo Ward, Municipality of Bayamon	2023-Q1	2023-Q4	2023-Q4	2024-Q3	\$638,813.33
<b>D&amp;T-WL</b>	CIP.1159001	Replacement and Renovation of WL, Urb. Loiza Valley, Municipality of Canóvanas	2023-Q1	2023-Q3	2023-Q4	2025-Q1	\$895,436.69



<b>Asset Category</b>	<b>Project #</b>	<b>Description</b>	<b>A&amp;E Start Quarter</b>	<b>SOW Submittal Quarter</b>	<b>Construction Start Quarter</b>	<b>SOW Close Out Submittal Quarter</b>	<b>Total Cost Estimate</b>
<b>D&amp;T-WL</b>	CIP.1169002	Replacement and Renovation of WL, Urb. Villa Fontana, Municipality of Carolina	2023-Q1	2023-Q3	2023-Q4	2025-Q1	\$1,223,296.74
<b>D&amp;T-WL</b>	CIP.1665120	Rehabilitation of WL (SDR14), Urb. Country Club, San Juan	2023-Q1	2023-Q4	2023-Q4	2025-Q1	\$3,354,796.61
<b>D&amp;T-WL</b>	CIP.1669101	Replacement and Renovation of WL, Urb. Country Club, Municipality of Carolina	2023-Q1	2023-Q3	2023-Q4	2025-Q1	\$2,277,497.19
<b>D&amp;T-WL</b>	CIP.2071000	Improvements to Arecibo Water Distribution System	2023-Q1	2023-Q4	2023-Q4	2025-Q3	\$1,467,400.13
<b>D&amp;T-WL</b>	CIP.2071001	Improvements to La Pica, El Peje, and Sabana Hoyos Water Distribution System, Municipality of Vega Alta	2023-Q1	2023-Q4	2023-Q4	2024-Q3	\$2,625,745.00
<b>D&amp;T-WL</b>	CIP.2346016	Replacement of 4" and 6" WL, Bayaney Ward, Municipality of Hatillo	2023-Q1	2024-Q1	2024-Q1	2024-Q3	\$1,460,964.03
<b>D&amp;T-WL</b>	CIP.2389000	Rehabilitation of 4" WL, Cuesta del Cementerio Sector, Municipality of Jayuya	2023-Q1	2023-Q3	2023-Q4	2024-Q2	\$573,534.40
<b>D&amp;T-WL</b>	CIP.2389001	Improvements Tetuan III Com. Inst Water Pipeline 4"/2" PVC-SDR (FAAST) #NRW #JG	2023-Q1	2023-Q3	2023-Q4	2024-Q2	\$899,268.30
<b>D&amp;T-WL</b>	CIP.2419001	Improvements to Rio Lajas Dorado Water Distribution System	2023-Q1	2023-Q3	2023-Q4	2025-Q1	\$3,282,567.31



<b>Asset Category</b>	<b>Project #</b>	<b>Description</b>	<b>A&amp;E Start Quarter</b>	<b>SOW Submittal Quarter</b>	<b>Construction Start Quarter</b>	<b>SOW Close Out Submittal Quarter</b>	<b>Total Cost Estimate</b>
<b>D&amp;T-WL</b>	CIP.2479000	Design and Build of 8" Water Line, Boquillas Ward, Municipality of Manatí	2023-Q1	2023-Q4	2023-Q4	2024-Q4	\$2,443,635.80
<b>D&amp;T-WL</b>	CIP.2526009	Design and Build of Rehabilitation of 4" and 2 " Water Lines, Los Pedrozas Sector, Municipality of Morovis	2023-Q1	2023-Q4	2023-Q4	2024-Q3	\$748,372.33
<b>D&amp;T-WL</b>	CIP.2709002	Design and Construction of 4" WL, Villa Esperanza Community, Municipality of Toa Alta	2023-Q1	2023-Q4	2023-Q4	2024-Q3	\$1,694,489.50
<b>WTP</b>	CIP.2736005	Rehabilitation of Utuado Mameyes Limon (Arriba) WTP and RWI	2023-Q1	2023-Q4	2023-Q4	2026-Q1	\$6,691,802.00
<b>WTP</b>	CIP.2736006	Rehabilitation of Utuado Mameyes WTP and RWI	2023-Q1	2024-Q2	2024-Q3	2026-Q2	\$9,429,992.00
<b>WTP</b>	CIP.2736007	Rehabilitation of Santa Isabel Utuado WTP and RWI	2023-Q1	2024-Q2	2024-Q3	2026-Q2	\$10,690,837.00
<b>WST</b>	CIP.3009101	Rehabilitation of Tanks Phase 2- East Region	2023-Q1	2023-Q4	2023-Q4	2024-Q4	\$1,613,500.00
<b>WWPS</b>	CIP.3009104	Rehabilitation of Wastewater Pump Stations Tanks Phase 1- East Region	2023-Q1	2023-Q4	2024-Q4	2027-Q1	\$7,628,691.00
<b>WPS</b>	CIP.3019001	Replacement of Switchgear WPS Piedras Blancas, Guaynabo (FAAST) #NRW #JG	2023-Q1	2023-Q3	2023-Q4	2025-Q1	\$1,670,037.13
<b>WTP</b>	CIP.3106105	Rehabilitation of Barranquitas La Boca WTP and RWI	2023-Q1	2024-Q2	2024-Q3	2026-Q1	\$7,352,891.00



<b>Asset Category</b>	<b>Project #</b>	<b>Description</b>	<b>A&amp;E Start Quarter</b>	<b>SOW Submittal Quarter</b>	<b>Construction Start Quarter</b>	<b>SOW Close Out Submittal Quarter</b>	<b>Total Cost Estimate</b>
<b>D&amp;T-WL</b>	CIP.3139004	Extension to Water System Aguas Buenas Mulas Tizas (FAAST) #NRW #JG	2023-Q1	2023-Q3	2023-Q4	2024-Q3	\$1,903,398.83
<b>WWTP</b>	CIP.3185033	Rehabilitation of Cayey WWTP (FAAST-25)	2023-Q1	2024-Q2	2024-Q4	2027-Q1	\$21,954,319.00
<b>WWTP</b>	CIP.3279001	Rehabilitation of Switchgear Fajardo WWTP (FAAST) #NRW #JG	2023-Q1	2023-Q3	2024-Q2	2025-Q2	\$1,903,324.18
<b>WTP</b>	CIP.3336045	Rehabilitation of Gurabo WTP	2023-Q1	2024-Q2	2024-Q3	2026-Q2	\$9,404,992.00
<b>WWTP</b>	CIP.3785018	Rehabilitation of Yabucoa WWTP (FAAST)	2023-Q1	2024-Q2	2024-Q3	2026-Q2	\$13,834,616.00
<b>WTP</b>	CIP.3786003	Rehabilitation of Yabucoa Guayabota WTP and RWI	2023-Q1	2024-Q2	2024-Q3	2026-Q2	\$6,711,802.00
<b>WWPS</b>	CIP.4009104	Rehabilitation of Wastewater Pump Stations Tanks Phase 1- South Region	2023-Q1	2023-Q4	2024-Q4	2026-Q4	\$7,628,691.00
<b>D&amp;T-WL</b>	CIP.4089001	Rehabilitation of WL Buena Vista Sector, Arroyo (FAAST) #NRW #JG	2023-Q1	2023-Q3	2023-Q4	2024-Q2	\$552,444.39
<b>D&amp;T-WL</b>	CIP.4229003	Rehabilitation WL PR-155 Sector Farallones, Coamo (FAAST) #NRW #JG	2023-Q1	2023-Q3	2023-Q4	2024-Q2	\$1,955,506.11
<b>D&amp;T-WL</b>	CIP.4229004	Rehabilitation of WL PR-150 Santa Catalina and San Ildefonso, Coamo (FAAST) #NRW #JG	2023-Q1	2023-Q3	2023-Q4	2024-Q2	\$4,383,937.97





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<b>D&amp;T-WL</b>	CIP.4319001	Rehabilitation of WL PR-335, Indios Ward, Guayanilla (FAAST) #NRW #JG	2023-Q1	2023-Q3	2023-Q4	2024-Q2	\$2,453,291.98
<b>D&amp;T-WL</b>	CIP.4399000	Rehabilitation of WL Collores Sector PR 512, Juana Diaz (FAAST) #NRW #JG	2023-Q1	2023-Q3	2023-Q4	2024-Q2	\$871,969.63
<b>WTP</b>	CIP.4556009	Rehabilitation of Sanamuertos Orocovis WTP	2023-Q1	2023-Q4	2024-Q3	2026-Q1	\$9,371,659.05
<b>WTP</b>	CIP.4576002	Rehabilitation of Peñuelas WTP	2023-Q1	2024-Q1	2024-Q2	2026-Q2	\$11,502,953.86
<b>D&amp;T-WL</b>	CIP.4589007	Rehabilitation of WL Sabanetas Sector, Ponce, PR (FAAST).	2023-Q1	2023-Q3	2023-Q4	2025-Q1	\$1,264,231.16
<b>TSL</b>	CIP.4649000	Replacement of TSL Santos Amadeo, Baldorioty & Miguel Casco Urban, Salinas (FAAST)	2023-Q1	2023-Q3	2023-Q4	2024-Q4	\$3,596,458.58
<b>WTP</b>	CIP.4776077	Rehabilitation of Villalba Apeadero WTP	2023-Q1	2023-Q4	2024-Q3	2026-Q1	\$10,690,837.37
<b>D&amp;T-WL</b>	CIP.4779001	Replacement of WL Limón Sector, Villalba (FAAST) #NRW #JG	2023-Q1	2023-Q3	2023-Q4	2024-Q4	\$2,336,377.07
<b>D&amp;T-WL</b>	CIP.4779002	Rehabilitation of W Chichón Sector, Villalba (FAAST) #NRW #JG	2023-Q1	2023-Q3	2023-Q4	2024-Q2	\$1,185,136.01
<b>WTP</b>	CIP.4796004	Rehabilitation of Yauco Río Prieto WTP	2023-Q1	2024-Q2	2024-Q3	2026-Q4	\$19,193,024.00
<b>B</b>	CIP.5009000	Rehabilitation of West Region Facilities	2023-Q1	2023-Q4	2024-Q1	2024-Q4	\$779,469.64



<b>Asset Category</b>	<b>Project #</b>	<b>Description</b>	<b>A&amp;E Start Quarter</b>	<b>SOW Submittal Quarter</b>	<b>Construction Start Quarter</b>	<b>SOW Close Out Submittal Quarter</b>	<b>Total Cost Estimate</b>
<b>WPS</b>	CIP.5009103	Rehabilitation of Water Pump Stations Tanks Phase 1- West Region	2023-Q1	2023-Q4	2024-Q4	2027-Q1	\$3,612,989.00
<b>WWPS</b>	CIP.5009104	Rehabilitation of Wastewater Pump Stations Tanks Phase 1- West Region	2023-Q1	2023-Q4	2024-Q4	2027-Q1	\$7,648,691.00
<b>D&amp;T-WL</b>	CIP.5067002	Improvements to Water System Community Del Hoyo de los Feos, Añasco (FAAST)	2023-Q1	2023-Q4	2024-Q1	2025-Q3	\$838,032.39
<b>D&amp;T-WL</b>	CIP.5069000	Design and Build Installation of 4" WL Parcelas Aqlas Aquilino, Añasco (FAAST) #NRW #JG	2023-Q1	2023-Q3	2024-Q1	2025-Q1	\$1,435,069.98
<b>WWTP</b>	CIP.5089000	Rehabilitation of Las Mariás WWTP (FAAST-25)	2023-Q1	2024-Q1	2024-Q1	2025-Q1	\$3,950,918.80
<b>D&amp;T-WL</b>	CIP.5129001	Design & Build Installation of 4" WL Betances Community, Llanos Tuna Ward, Cabo Rojo (FAAST) #NRW #JG	2023-Q1	2023-Q3	2024-Q1	2025-Q1	\$971,058.78
<b>D&amp;T-WL</b>	CIP.5379000	Design and Build Installation of 4" WL Chevín Sector, Isabela (FAAST) #NRW #JG	2023-Q1	2023-Q3	2024-Q1	2025-Q1	\$4,060,635.62
<b>WTP</b>	CIP.5486007	Rehabilitation of Maricao WTP	2023-Q1	2023-Q4	2024-Q3	2026-Q4	\$8,987,703.00
<b>WTP</b>	CIP.5506046	Rehabilitation of Ponce de Leon Mayaguez WTP	2023-Q1	2023-Q4	2024-Q3	2026-Q2	\$6,041,379.00



<b>Asset Category</b>	<b>Project #</b>	<b>Description</b>	<b>A&amp;E Start Quarter</b>	<b>SOW Submittal Quarter</b>	<b>Construction Start Quarter</b>	<b>SOW Close Out Submittal Quarter</b>	<b>Total Cost Estimate</b>
<b>D&amp;T-WL</b>	CIP.5509000	Design & Build Installation 6" and 4" WL, París Ward, Mayaguez (FAAST) #NRW #J	2023-Q1	2023-Q3	2024-Q1	2025-Q1	\$1,728,921.75
<b>D&amp;T-WL</b>	CIP.5579003	Design and Build 4" WL PR-41, PR-412, PR-412, PR-412, Corea Sector, Rincón (FAAST)#N	2023-Q1	2023-Q3	2024-Q1	2025-Q1	\$1,034,818.28
<b>WTP</b>	CIP.5596001	Rehabilitation of Quebradillas Guajataca WTP and RWI	2023-Q1	2024-Q2	2024-Q4	2026-Q4	\$20,620,874.00
<b>D&amp;T-WL</b>	CIP.5609002	Design and Build Installation of 4" WL, Camino Blanco Black Eagle, Rincón (FAAST) #NRW #JG	2023-Q1	2023-Q3	2024-Q1	2025-Q1	\$541,433.73
<b>D&amp;T-WL</b>	CIP.5639000	Design and Build Installation of 4" WL, Algarrobo, Azucena and Parcela Lluveras, Sabana Grande (FAAST) #NRW #JG	2023-Q1	2023-Q3	2024-Q1	2025-Q1	\$1,517,772.23
<b>WWTP</b>	CIP.2269002	Elimination of Several WWTP North Region (FAASt 406)	2023-Q1	2024-Q1	2025-Q4	2031-Q1	\$320,048,143.50
<b>WST</b>	CIP.1009101	Rehabilitation of Tanks Phase 2- Metro Region	2023-Q2	2024-Q1	2024-Q2	2026-Q2	\$1,888,466.67
<b>WPS</b>	CIP.1009203	Rehabilitation of Water Pump Stations Tanks Phase 2- Metro Region	2023-Q2	2024-Q1	2024-Q2	2026-Q2	\$3,241,800.00
<b>WWPS</b>	CIP.1009204	Rehabilitation of Wastewater Pump Stations Tanks Phase 2- Metro Region	2023-Q2	2024-Q1	2024-Q2	2026-Q2	\$6,895,133.33



<b>Asset Category</b>	<b>Project #</b>	<b>Description</b>	<b>A&amp;E Start Quarter</b>	<b>SOW Submittal Quarter</b>	<b>Construction Start Quarter</b>	<b>SOW Close Out Submittal Quarter</b>	<b>Total Cost Estimate</b>
<b>WPS</b>	CIP.1159000	Design and Build of Rehabilitation of Water Pump Station at La Central, Municipality of Canóvanas	2023-Q2	2023-Q4	2024-Q3	2025-Q4	\$1,000,777.08
<b>WWPS</b>	CIP.1665900	Rehabilitation of Martín Peña WWPS (Tokio), Municipality of San Juan	2023-Q2	2023-Q4	2024-Q3	2026-Q1	\$4,025,579.12
<b>D</b>	CIP.1666090	Improvements to La Plata Dam-Installation of Anchors	2023-Q2	2024-Q3	2024-Q4	2025-Q2	\$4,032,519.65
<b>WWPS</b>	CIP.3009204	Rehabilitation of Wastewater Pump Stations Tanks Phase 2- East Region	2023-Q2	2023-Q4	2024-Q4	2027-Q1	\$7,628,691.00
<b>WWTP</b>	CIP.3045036	Rehabilitation of Aguas Buenas WWTP (FAAST)	2023-Q2	2024-Q1	2024-Q4	2027-Q1	\$12,820,238.00
<b>WPS</b>	CIP.4317001	Construction Sector Ballinó Guayanilla WPS (FAAST)	2023-Q2	2023-Q4	2024-Q1	2025-Q1	\$443,441.00
<b>WST</b>	CIP.5009101	Rehabilitation of Tanks Phase 2-West Region	2023-Q2	2024-Q1	2024-Q1	2026-Q2	\$1,838,466.67
<b>WPS</b>	CIP.5009203	Rehabilitation of Water Pump Stations Tanks Phase 2- West Region	2023-Q2	2024-Q1	2025-Q1	2027-Q1	\$3,241,800.00
<b>WWPS</b>	CIP.5009204	Rehabilitation of Wastewater Pump Stations Tanks Phase 2- West Region	2023-Q2	2024-Q1	2025-Q1	2027-Q2	\$7,648,691.00
<b>WTP</b>	CIP.5506044	Rehabilitation of Miradero Mayagüez RWI	2023-Q2	2023-Q4	2024-Q4	2026-Q4	\$53,939,671.15
<b>OO</b>	CIP.5509105	Rehabilitation of Mayaguez Ocean Outfall	2023-Q2	2024-Q3	2024-Q4	2027-Q1	\$26,967,699.00



<b>Asset Category</b>	<b>Project #</b>	<b>Description</b>	<b>A&amp;E Start Quarter</b>	<b>SOW Submittal Quarter</b>	<b>Construction Start Quarter</b>	<b>SOW Close Out Submittal Quarter</b>	<b>Total Cost Estimate</b>
<b>D&amp;T-WL</b>	CIP.5609001	Installation of 12" WL PR-115, Rincón (FAAST)	2023-Q2	2023-Q4	2024-Q1	2025-Q1	\$8,398,441.98
<b>D&amp;T-WL</b>	CIP.5685006	Improvements to Villa Rita Drinking Water System, San Sebastián (FAAST)	2023-Q2	2023-Q4	2024-Q1	2025-Q1	\$3,883,327.13
<b>R</b>	CIP.4009000	Bauta Tunnel (FEMA 404/CDBG-MIT)	2023-Q2	2024-Q2	2026-Q4	2029-Q4	\$245,406,750.22
<b>D&amp;T-WL</b>	CIP.1669001	Improvements to Water Distribution System, Hollywood Hills, Municipality of San Juan	2023-Q3	2024-Q1	2024-Q1	2025-Q3	\$1,519,825.50
<b>WST &amp; WPS</b>	CIP.2076044	Installation of MCC at Medio Millon Arecibo WST & WPS	2023-Q3	2023-Q4	2024-Q2	2024-Q4	\$396,200.00
<b>TSL</b>	CIP.2475025	Replacement of TSL Río Manatí Sifon, Manatí-Barceloneta	2023-Q3	2024-Q2	2025-Q2	2026-Q4	\$5,243,785.24
<b>WWTP</b>	CIP.1665115	Rehabilitation of Puerto Nuevo WWTP, Municipality of San Juan	2023-Q4	2024-Q3	2025-Q2	2028-Q1	\$33,408,337.56
<b>B</b>	CIP.6009007	Rehabilitation to PRASA Buildings Islandwide LS Project -Acquisition of Power Generators (FAAST)	2023-Q1	2023-Q1	2023-Q3	2025-Q3	\$28,000,000.00



## 7.2 Appendix A: Table A.2- List of PRASA Projects FAASt Mid-Term

Asset Category	Project #	Description	A&E Start Quarter	SOW Submittal Quarter	Construction Start Quarter	SOW Close Out Submittal Quarter	Total Cost Estimate
<b>OO</b>	CIP.2149105	Rehabilitation of Camuy Ocean Outfall	2024-Q1	2024-Q3	2025-Q3	2027-Q3	\$35,793,614.00
<b>D&amp;T-WL</b>	CIP.3136009	Improvements to the Water Supply System in Villa del Rey Ward in Caguas (FAAST)	2024-Q1	2024-Q1	2020-Q4	2025-Q3	\$504,422.08
<b>WTP</b>	CIP.1156004	Rehabilitation of Cubuy WTP and RWI, Municipality of Canóvanas	2024-Q2	2025-Q1	2026-Q2	2028-Q2	\$10,373,548.21
<b>WST</b>	CIP.2009101	Rehabilitation of Tanks Phase 2- North Region	2024-Q2	2024-Q4	2025-Q2	2027-Q2	\$1,990,978.32
<b>WPS</b>	CIP.2009203	Rehabilitation of Water Pump Stations Tanks Phase 2- North Region	2024-Q2	2024-Q4	2025-Q2	2027-Q2	\$3,450,989.97
<b>WWPS</b>	CIP.2009204	Rehabilitation of Wastewater Pump Stations Tanks Phase 2- North Region	2024-Q2	2024-Q4	2025-Q2	2027-Q2	\$7,432,691.58
<b>WPS</b>	CIP.4009203	Rehabilitation of Water Pump Stations Tanks Phase 2- South Region	2024-Q2	2024-Q4	2025-Q2	2027-Q2	\$3,241,800.00
<b>WWPS</b>	CIP.4009204	Rehabilitation of Wastewater Pump Stations Tanks Phase 2- South Region	2024-Q2	2024-Q4	2025-Q2	2027-Q2	\$6,895,133.33



Asset Category	Project #	Description	A&E Start Quarter	SOW Submittal Quarter	Construction Start Quarter	SOW Close Out Submittal Quarter	Total Cost Estimate
<b>D&amp;T-WL</b>	CIP.5506042	Improvements to the Water Supply System in Mayaguez Mall (FAAST)	2024-Q2	2024-Q4	2024-Q1	2027-Q1	\$1,738,131.97
<b>WWPS</b>	CIP.7688000	Elimination of Los Alamos WWPS San Sebastian	2024-Q2	2024-Q4	2025-Q3	2026-Q3	\$930,573.19
<b>WWPS</b>	CIP.5685001	Rehabilitation of Chinito Rondon WWPS San Sebastian	2024-Q3	2025-Q1	2025-Q4	2026-Q2	\$900,177.25
<b>WTP</b>	CIP.6009016	Rehabilitation to PRASA WTP Islandwide LS Project (FAAST)	2024-Q3	2024-Q4	2028-Q3	2035-Q3	\$30,000,000.00
<b>WWTP</b>	CIP.6009017	Rehabilitation to PRASA WWTP Islandwide LS Project (FAST)	2024-Q3	2024-Q4	2028-Q3	2035-Q3	\$30,000,000.00
<b>WTP</b>	CIP.2386049	Elimination of Jayuya Canalizo WTP and RWI	2024-Q4	2025-Q4	2026-Q4	2028-Q2	\$6,670,614.00
<b>WTP</b>	CIP.2736008	Rehabilitation of Utuado Roncador WTP and RWI	2024-Q4	2025-Q2	2026-Q2	2027-Q4	\$6,897,642.42
<b>WWTP</b>	CIP.4315010	Rehabilitation of Guayanilla WWTP (FAAST)	2024-Q4	2025-Q4	2026-Q3	2028-Q2	\$21,971,233.00
<b>WTP</b>	CIP.3106104	Rehabilitation of Barranquitas WTP and RWI	2025-Q1	2025-Q4	2026-Q3	2028-Q1	\$7,341,753.25
<b>WTP</b>	CIP.3186002	Rehabilitation of Cayey Urbana WTP	2025-Q1	2025-Q4	2026-Q3	2028-Q2	\$11,278,552.53



Asset Category	Project #	Description	A&E Start Quarter	SOW Submittal Quarter	Construction Start Quarter	SOW Close Out Submittal Quarter	Total Cost Estimate
<b>WST</b>	CIP.6009001	Water Storage Tanks Islandwide (FAAST)	2025-Q1	2025-Q2	2024-Q1	2035-Q3	\$45,000,000.00
<b>WPS</b>	CIP.6009003	Rehabilitation of WPS Islandwide LS Project (FAAST)	2025-Q1	2025-Q2	2028-Q3	2035-Q3	\$12,000,000.00
<b>WWPS</b>	CIP.6009004	Rehabilitation of WWPS Islandwide LS Project (FAAST)	2025-Q1	2025-Q2	2028-Q3	2035-Q3	\$31,000,000.00
<b>PPTD</b>	CIP.6009008	Projects Pending to Defined LS Project (FAAST)	2025-Q1	2025-Q3	2028-Q3	2035-Q3	\$111,800,000.00
<b>R</b>	CIP.6009010	Reservoir Dredging Islandwide LS Project	2025-Q1	2025-Q2	2025-Q2	2035-Q3	\$41,000,000.00
<b>D</b>	CIP.6009011	Rehabilitation to PRASA Dams Islandwide LS Project (FAST)	2025-Q1	2025-Q3	2028-Q3	2035-Q3	\$20,000,000.00
<b>T</b>	CIP.6009012	Telemetry Islandwide LS Project (FAAST)	2025-Q1	2025-Q3	2028-Q3	2035-Q3	\$5,000,000.00
<b>WTP</b>	CIP.2076043	Rehabilitation of Río Arriba Arcibo WTP	2025-Q4	2026-Q3	2027-Q2	2028-Q4	\$4,766,006.61
<b>WTP</b>	CIP.3136013	Rehabilitation of Caguas Sur WTP	2025-Q4	2026-Q2	2027-Q2	2028-Q4	\$9,419,354.05
<b>WTP</b>	CIP.4016008	Rehabilitation of Adjuntas Olimpia WTP	2025-Q4	2026-Q3	2027-Q2	2029-Q1	\$8,741,236.56





<b>Asset Category</b>	<b>Project #</b>	<b>Description</b>	<b>A&amp;E Start Quarter</b>	<b>SOW Submittal Quarter</b>	<b>Construction Start Quarter</b>	<b>SOW Close Out Submittal Quarter</b>	<b>Total Cost Estimate</b>
<b>WTP</b>	CIP.4586084	Rehabilitation Ponce Guaragua WTP	2026-Q1	2026-Q3	2027-Q2	2029-Q1	\$9,372,237.05
<b>WTP</b>	CIP.4796005	Rehabilitation Yauco Rancheras WTP	2026-Q1	2026-Q3	2027-Q2	2029-Q1	\$6,668,195.75
<b>WTP</b>	CIP.5686045	Rehabilitation of San Sebastian WTP and RWI	2026-Q1	2026-Q4	2027-Q3	2029-Q2	\$8,641,105.37
<b>WTP</b>	CIP.3536007	Rehabilitation Naguabo El Duque WTP	2026-Q2	2026-Q4	2027-Q3	2029-Q2	\$6,664,080.42
<b>WTP</b>	CIP.2386048	Elimination of Jayuya La Pica WTP and RWI	2026-Q4	2027-Q3	2028-Q2	2029-Q4	\$6,665,220.42
<b>WWTP</b>	CIP.3056002	Rehabilitation of Aibonito WWTP (FAAST)	2026-Q4	2027-Q2	2028-Q2	2029-Q4	\$11,997,298.02
<b>WTP</b>	CIP.3186004	Rehabilitation of Cayey Culebras Alto WTP	2026-Q4	2027-Q2	2028-Q1	2029-Q4	\$6,678,213.75
<b>WTP</b>	CIP.1156005	Rehabilitation of Canóvanas Nueva WTP and RWI	2027-Q1	2027-Q3	2028-Q2	2031-Q1	\$12,996,377.84
<b>WPS</b>	CIP.1669002	Rehabilitation of WPS of Puerto Nuevo and WL of 48", Municipality of San Juan	2027-Q1	2028-Q1	2029-Q1	2031-Q2	\$9,443,009.00
<b>WTP</b>	CIP.2206106	Rehabilitation of Jaguas Pesas Ciales WTP and RWI	2027-Q1	2027-Q3	2028-Q3	2030-Q1	\$6,699,428.42



<b>Asset Category</b>	<b>Project #</b>	<b>Description</b>	<b>A&amp;E Start Quarter</b>	<b>SOW Submittal Quarter</b>	<b>Construction Start Quarter</b>	<b>SOW Close Out Submittal Quarter</b>	<b>Total Cost Estimate</b>
<b>WWTP</b>	CIP.3105032	Rehabilitation of Barranquitas WWTP (FAAST)	2027-Q1	2027-Q4	2028-Q3	2030-Q1	\$9,419,677.05
<b>WTP</b>	CIP.3466005	Rehabilitation of Luquillo-Sabana WTP	2027-Q1	2027-Q3	2028-Q2	2030-Q1	\$11,278,141.53
<b>WTP</b>	CIP.5636006	Rehabilitation of Sabana Grande WTP and RWI	2027-Q1	2027-Q3	2028-Q3	2030-Q1	\$6,168,314.33
<b>WTP</b>	CIP.5656001	Rehabilitation of Caín Alto San Germán WTP and RWI	2027-Q1	2027-Q3	2028-Q3	2030-Q1	\$6,176,866.33
<b>OO</b>	CIP.6009005	Rehabilitation to PRASA Ocean Outfalls Islandwide LS Project (FAST)	2027-Q1	2027-Q3	2028-Q3	2035-Q3	\$126,000,000.00
<b>TSL</b>	CIP.6009014	Trunk Sewer Lines (TSL) Islandwide LS Project (FAAST)	2027-Q1	2027-Q2	2025-Q2	2035-Q3	\$100,000,000.00
<b>D&amp;T-WL</b>	CIP.6009015	T & D -WL Islandwide LS Project (FAAST)	2027-Q1	2027-Q2	2025-Q2	2035-Q3	\$100,000,000.00
<b>WWTP</b>	CIP.2545006	Rehabilitation of Naranjito WWTP	2027-Q2	2027-Q4	2028-Q3	2030-Q4	\$10,253,475.60
<b>WTP</b>	CIP.5376006	Rehabilitation of Isabela Urbana WTP and RWI	2027-Q2	2027-Q4	2028-Q3	2030-Q4	\$7,746,473.00
<b>WWTP</b>	CIP.5685004	Rehabilitation of San Sebastián WWTP (FAAST-25)	2027-Q2	2027-Q4	2028-Q4	2030-Q3	\$12,750,430.33



<b>Asset Category</b>	<b>Project #</b>	<b>Description</b>	<b>A&amp;E Start Quarter</b>	<b>SOW Submittal Quarter</b>	<b>Construction Start Quarter</b>	<b>SOW Close Out Submittal Quarter</b>	<b>Total Cost Estimate</b>
<b>WTP</b>	CIP.2386047	Rehabilitation of Jayuya Urbano WTP and RWI	2027-Q4	2028-Q3	2029-Q2	2031-Q3	\$9,609,576.72
<b>WTP</b>	CIP.3046005	Rehabilitation of Aguas Buenas WTP	2027-Q4	2028-Q2	2029-Q1	2030-Q4	\$7,342,617.25
<b>WTP</b>	CIP.3216066	Rehabilitation of Cidra Urbano WTP	2027-Q4	2028-Q2	2029-Q1	2030-Q4	\$9,422,672.05
<b>WTP</b>	CIP.3786004	Rehabilitation of Yabucoa La Pica WTP	2027-Q4	2028-Q2	2029-Q2	2030-Q4	\$6,673,431.75



### 7.3 Appendix A: Table A.3- List of PRASA Projects FAASt Long-Term

Asset Category	Project #	Description	A&E Start Quarter	SOW Submittal Quarter	Construction Start Quarter	SOW Close Out Submittal Quarter	Total Cost Estimate
<b>WTP</b>	CIP.1116011	Improvements to Barrio NuevoLT2 WTP, Municipality of Guaynabo	2028-Q1	2028-Q4	2029-Q3	2030-Q4	\$ 7,102,058.25
<b>WTP</b>	CIP.2076041	Rehabilitation of Arecibo Urbano WTP	2028-Q1	2028-Q3	2029-Q3	2031-Q1	\$ 9,390,912.05
<b>WTP</b>	CIP.2426101	Rehabilitation of Lares WTP and RWI	2028-Q1	2028-Q3	2029-Q2	2031-Q1	\$ 9,369,741.39
<b>WWTP</b>	CIP.2745019	Rehabilitation of Vega Alta WWTP	2028-Q1	2028-Q3	2029-Q2	2031-Q1	\$ 9,394,757.05
<b>WWTP</b>	CIP.3136014	Rehabilitation of Parcelas Borinquen Caguas WWTP	2028-Q1	2028-Q4	2029-Q3	2031-Q1	\$ 6,086,213.26
<b>WTP</b>	CIP.3276053	Rehabilitation of Fajardo WTP	2028-Q2	2029-Q1	2029-Q4	2032-Q1	\$ 11,513,559.86
<b>WTP</b>	CIP.3536002	Rehabilitation of Naguabo Cubuy Este- Maizales LT2 WTP	2028-Q2	2028-Q4	2029-Q3	2031-Q2	\$ 9,384,159.05
<b>WWTP</b>	CIP.4795022	Rehabilitation of Yauco WWTP (FAASt)	2028-Q2	2028-Q4	2029-Q3	2031-Q4	\$ 12,769,782.84
<b>WTP</b>	CIP.1616001	Rehabilitation of Guzman Arriba WTP and RWI, Municipality of Río Grande	2028-Q3	2029-Q1	2029-0	2031-Q3	\$ 6,769,045.04
<b>WTP</b>	CIP.2246107	Rehabilitation of Corozal Urbana WTP	2031-Q4	2032-Q2	2033-Q2	2034-Q4	\$ 6,695,128.42



## **Chapter 8 Appendix B**

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### **8.1 Appendix B: FAASt Plan Projects Schedule**



ID	Task Mode	Task Name	Start	Finish	Duration	17	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
						H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2
1	→	<b>PRASA FAAST PLAN</b>	<b>Fri 11/17/17</b>	<b>Mon 7/30/35</b>	<b>4617 days</b>																			
2	→	<b>2017</b>	<b>Fri 11/17/17</b>	<b>Wed 11/30/22</b>	<b>1314 days</b>																			
3	→	CIP.3130001 - PRASA Central Laboratory in Caguas (FAAST)	Fri 11/17/17	Wed 11/30/22	1314 days																			
4	→	<b>2019</b>	<b>Sun 9/29/19</b>	<b>Wed 10/1/25</b>	<b>1568 days</b>																			
5	→	CIP.3369001 - Desing and Build Buena Vista Humacao WPS	Sun 9/29/19	Thu 4/15/21	405 days																			
6	→	CIP.3135079 - Rehabilitation of Blowers in Caguas WWTP (FAAST)	Tue 10/1/19	Thu 12/29/22	848 days																			
7	→	CIP.3139000 - Equipment for New PRASA Central Laboratory in Caguas (FAAST)	Wed 10/30/19	Tue 10/31/23	1045 days																			
8	→	CIP.3366005 - Rehabilitation of Humacao WTP	Mon 12/23/19	Wed 10/1/25	1508 days																			
9	→	<b>2020</b>	<b>Thu 2/6/20</b>	<b>Wed 4/29/26</b>	<b>1625 days</b>																			
10	→	CIP.2479001 - Rehabilitation of Morovis Sur RWI	Thu 2/6/20	Fri 2/3/23	782 days																			
11	→	CIP.3336045 - Rehabilitation of Gurabo WTP	Thu 2/6/20	Wed 4/29/26	1625 days																			
12	→	CIP.3445009 - Desing and Build La Sabana Las Piedras WWPS	Sat 6/6/20	Thu 9/29/22	605 days																			
13	→	CIP.3305001 - Improvements to Guayama WWTP (FAAST)	Sat 10/10/20	Mon 2/16/26	1397 days																			
14	→	CIP.2017005 - Rehabilitation of Culebrinas WTP	Sun 11/1/20	Mon 8/25/25	1257 days																			
15	→	CIP.3365083 - Rehabilitation of Humacao Waste Water Treatment Plant (WWTP) Sludge Treatment System (STS)	Tue 11/10/20	Tue 3/12/24	871 days																			
16	→	<b>2021</b>	<b>Fri 1/1/21</b>	<b>Mon 1/8/29</b>	<b>2092 days</b>																			
17	→	CIP.6009002 - Water Meters Islandwide LS Project (FAAST)	Fri 1/1/21	Wed 6/14/28	1944 days																			
18	→	CIP.1660002 - Rehabilitation of PRASA Main Building (Sede)	Mon 2/1/21	Fri 9/15/23	685 days																			
19	→	CIP.1019000 - Carraizo Reservoir Dredging	Thu 2/4/21	Fri 2/27/26	1322 days																			
20	→	CIP.2096007 - Rehabilitation of Enrique Ortega WTP	Mon 3/1/21	Thu 7/1/27	1654 days																			
21	→	CIP.3360002 - Design and Build Buena Vista Tank	Fri 3/5/21	Mon 6/6/22	327 days																			
22	→	CIP.4016008 - Rehabilitation of Adjuntas Olimpia WTP	Mon 6/14/21	Mon 1/8/29	1976 days																			
23	→	CIP.1165044 - Rehabilitation of Carolina WWTP FEMA (FAAST-25) .	Thu 7/1/21	Fri 4/24/26	1257 days																			
24	→	CIP.1169001 - Rehabilitation of Los Angeles and Loiza Pueblo Trunk Sewers (FAAST)	Thu 7/1/21	Wed 12/6/23	635 days																			
25	→	CIP.4589006 - Rehabilitation of WL La Yuca Sector, Ponce, PR (FAAST) .	Sun 8/8/21	Tue 12/3/24	868 days																			
26	→	CIP.4589007 - Rehabiliation of WL Sabanetas Sector, Ponce, PR (FAAST).	Sun 8/8/21	Thu 1/30/25	910 days																			
27	→	CIP.2075073 - Rehabilitation of Islote WWTP, Arecibo (FAAST)	Wed 9/1/21	Thu 3/19/26	1187 days																			
28	→	CIP.2076042 - Rehabilitation of Esperanza Arecibo WTP and RWI	Wed 9/1/21	Wed 1/29/25	891 days																			
29	→	CIP.2426100 - Rehabilitation of Lares Nueva Espino WTP and RWI	Wed 9/1/21	Mon 10/21/24	819 days																			
30	→	CIP.2739001 - Rehabilitation of Lago Viví RWI	Wed 9/1/21	Fri 6/27/25	998 days																			
31	→	CIP.2755055 - Rehabilitation of Vega Baja Trunk Sewer Lines (TSL)	Wed 9/1/21	Tue 10/15/24	815 days																			
32	→	CIP.1009001 - Rehabilitation of Tanks Phase 1- Metro Region	Wed 9/1/21	Tue 12/10/24	855 days																			
33	→	CIP.1016095 - Rehabilitation of Guaynabo WTP	Fri 10/1/21	Tue 3/9/27	1418 days																			
34	→	CIP.2526006 - Rehabilitation of Morovis Sur WTP	Fri 10/1/21	Tue 10/7/25	1048 days																			
35	→	CIP.5376001 - Repair of Geosynthetic Membranes in Lago Regulador in Isabel	Wed 10/6/21	Mon 10/21/24	794 days																			
36	→	CIP.4589003 - Rehabilitation of Ponce Trunk Sewer System (FAAST)	Thu 10/28/21	Fri 3/14/25	882 days																			

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Task		Project Summary		Manual Task		Start-only		Deadline	
Split		Inactive Task		Duration-only		Finish-only		Progress	
Milestone		Inactive Milestone		Manual Summary Rollup		External Tasks		Manual Progress	
Summary		Inactive Summary		Manual Summary		External Milestone			

ID	Task Mode	Task Name	Start	Finish	Duration	17	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
						H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2
37	🚀	CIP.4585096 - Rehabilitation of Ponce WWTP (FAAST-25)	Thu 10/28/21	Wed 3/10/27	1400 days																			
38	🚀	CIP.3009001 - Rehabilitation of Tanks Phase 1-East Region	Mon 11/1/21	Wed 3/6/24	613 days																			
39	🚀	CIP.2475022 - Installation of Water Line at Río Utuado Bridge, Municipality of Utuado	Mon 11/15/21	Fri 8/11/23	455 days																			
40	🚀	CIP.3786003 - Rehabilitation of Yabucoa Guayabota WTP and RWI	Sun 11/28/21	Tue 4/28/26	1153 days																			
41	🚀	CIP.2206107 - Rehabilitation of Ciales Fronton WTP and RWI	Wed 12/1/21	Tue 11/4/25	1025 days																			
42	🚀	CIP.2375002 - Trunk Sewer Lines (TSL) Isabela - Aguada (FAAST)	Fri 12/10/21	Thu 5/8/25	890 days																			
43	📅	<b>2022</b>	<b>Mon 1/3/22</b>	<b>Thu 7/8/27</b>	<b>1439 days</b>																			
44	🚀	CIP.2009001 - Rehabilitation of Tanks Phase 1- North Region	Mon 1/3/22	Tue 5/6/25	872 days																			
45	🚀	CIP.5505028 - Rehabilitation of Mayaguez WWTP (FAAST-25)	Mon 1/24/22	Thu 4/30/26	1114 days																			
46	🚀	CIP.2039000 - Rehabilitation of Guerrero 2 WWPS, Municipality of Aguadilla	Tue 2/1/22	Tue 10/8/24	701 days																			
47	🚀	CIP.2346015 - Rehabilitation of Hatillo-Camuy WTP	Tue 2/1/22	Mon 1/12/26	1030 days																			
48	🚀	CIP.2375003 - Rehabilitation of Isabela TSL (Including Aguadilla WWPS Avenue and Fomento)	Wed 2/2/22	Mon 7/14/25	899 days																			
49	🚀	CIP.2426099 - Rehabilitation of Lares Indiera Alta WTP and RWI	Tue 2/22/22	Thu 12/25/25	1003 days																			
50	🚀	CIP.2709010 - Improvements to the Teefrans TSL, Municipality of Arecibo	Tue 3/1/22	Mon 9/16/24	665 days																			
51	🚀	CIP.1666090 - Improvements to La Plata Dam-Installation of Anchors	Tue 3/1/22	Mon 5/19/25	840 days																			
52	🚀	CIP.5509001 - Rehabilitation of Hormigueros and Mayaguez Trunk Sewer Lines (FAAST)	Tue 3/29/22	Wed 11/12/25	947 days																			
53	🚀	CIP.2149001 - Rehabilitation of Camuy Trunk Sewer Lines (FAAST)	Wed 3/30/22	Tue 7/6/27	1375 days																			
54	🚀	CIP.1116008 - Rehabilitation of Guaynabo Santa Rosa WI (FAAST-25)	Mon 4/4/22	Mon 12/23/24	711 days																			
55	🚀	CIP.2246106 - Rehabilitation of Ciales Negros WTP and RWI	Mon 4/4/22	Mon 8/31/26	1151 days																			
56	🚀	CIP.2596004 - Rehabilitation of Quebradillas WTP and RWI	Mon 4/4/22	Tue 11/25/25	952 days																			
57	🚀	CIP.1726043 - Rehabilitation of Sergio Cuevas WTP	Mon 4/11/22	Mon 9/21/26	1161 days																			
58	🚀	CIP.5379002 - Guajataca Floating RWI	Wed 4/20/22	Wed 3/26/25	766 days																			
59	🚀	CIP.4299000 - Rehabilitation of Barriada Esperanza Guanica Trunk Sewer System	Mon 4/25/22	Thu 1/2/25	704 days																			
60	🚀	CIP.3139001 - Improvements to Caguas WWTP (FAAST-25)	Sun 5/1/22	Wed 4/23/25	779 days																			
61	🚀	CIP.3009106 - Rehabilitation of Raw Water Wells Phase 1- Este Region	Sun 5/1/22	Thu 7/3/25	830 days																			
62	🚀	CIP.3106106 - Rehabilitation of Barranquitas Barrancas WTP and REI	Sun 5/1/22	Thu 10/23/25	910 days																			
63	🚀	CIP.1009106 - Rehabilitation of Raw Water Well Phase 1- Metro Region	Tue 5/3/22	Thu 3/5/26	1003 days																			
64	🚀	CIP.1009103 - Rehabilitation of Water Pump Stations Tanks Phase 1- Metro Region	Fri 5/6/22	Wed 12/2/26	1194 days																			
65	🚀	CIP.1009104 - Rehabilitation of Wastewater Pump Stations Tanks Phase 1- Metro Region	Fri 5/6/22	Wed 12/2/26	1194 days																			
66	🚀	CIP.2009104 - Rehabilitation of Wastewater Pump Stations Tanks Phase 1- North Region	Wed 6/1/22	Wed 6/3/26	1046 days																			
67	🚀	CIP.2916002 - Rehabilitation of Arecibo Superacueductos WTP	Wed 6/1/22	Thu 10/22/26	1147 days																			
68	🚀	CIP.2009103 - Rehabilitation of Water Pump Stations Tanks Phase 1- North Region	Tue 6/7/22	Mon 11/3/25	890 days																			
69	🚀	CIP.5009001 - Rehabilitation of Tanks Phase 1-West Region	Wed 6/29/22	Tue 5/6/25	745 days																			
70	🚀	CIP.2475021 - Rehabilitation of Barceloneta WWTP (FAAST-25)	Thu 6/30/22	Thu 7/8/27	1311 days																			

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Task		Project Summary		Manual Task		Start-only		Deadline	
Split		Inactive Task		Duration-only		Finish-only		Progress	
Milestone		Inactive Milestone		Manual Summary Rollup		External Tasks		Manual Progress	
Summary		Inactive Summary		Manual Summary		External Milestone			

ID	Task Mode	Task Name	Start	Finish	Duration	17	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
						H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2
71	➤	CIP.3139002 - Rehabilitation of Caguas Trunk Sewer Lines (FAAST)	Fri 7/1/22	Thu 5/8/25	745 days																			
72	➤	CIP.2009106 - Rehabilitation of Raw Water Well Phase 1- North Region	Fri 7/1/22	Mon 10/7/24	592 days																			
73	➤	CIP.2526008 - Improvements to the Water Distribution System in Morovis(FAA	Fri 7/1/22	Thu 4/3/25	720 days																			
74	➤	CIP.3009103 - Rehabilitation of Water Pump Stations Tanks Phase 1- East Regi	Fri 7/1/22	Fri 7/3/26	1046 days																			
75	➤	CIP.3136012 - Rehabilitation of Caguas Norte WTP	Fri 7/1/22	Thu 2/12/26	945 days																			
76	➤	CIP.4646004 - Raw Water Wells Clousure/ Salinas WTP (FEMA-404)	Thu 7/7/22	Wed 7/22/26	1055 days																			
77	➤	CIP.2549000 - Rehabilitation of Transmission and Distribution System at Naranjito (FAAST)	Mon 8/1/22	Thu 9/25/25	824 days																			
78	➤	CIP.4319001 - Rehabilitation of WL PR-335, Indios Ward , Guayanilla (FAAST) #NRW #JG . .	Mon 8/1/22	Fri 5/3/24	460 days																			
79	➤	CIP.4009103 - Rehabilitation of Water Pump Stations Tanks Phase 1- South Re	Tue 8/30/22	Mon 6/29/26	1000 days																			
80	➤	CIP.1709000 - Enrique Ortega WTP- Raw Water Intake Power Generator (FEMA-404) .	Wed 8/31/22	Wed 6/4/25	721 days																			
81	➤	CIP.2329004 - Desing and Build of Rehabilitation of Water Pump Station at Ciales Pozas	Thu 9/1/22	Fri 1/5/24	352 days																			
82	➤	CIP.4576004 - Rehabilitation of Malpaso Peñuelas WTP	Thu 9/1/22	Tue 11/25/25	844 days																			
83	➤	CIP.3536006 - Rehabilitation Naguabo Río Blanco WTP	Wed 9/21/22	Mon 7/27/26	1004 days																			
84	➤	CIP.2269001 - Design and Build of Rehabilitation of 4" and 2 " Water Lines Vimu Villa Community, Municipality of Dorado	Sat 10/1/22	Tue 6/4/24	438 days																			
85	➤	CIP.2526007 - Rehabilitation of Morovis Urbano WTP	Sat 10/1/22	Fri 10/24/25	801 days																			
86	➤	CIP.2709001 - Design and Construction of 6" WL, El Tocon Sector, Quebrada Cruz Ward, Municipality of Toa Alta	Sat 10/1/22	Thu 4/4/24	395 days																			
87	➤	CIP.4776078 - Rehabilitation of Jagueyes Villalba WTP	Thu 10/6/22	Mon 12/8/25	828 days																			
88	➤	CIP.3156093 - Rehabilitation of Río Grande El Yunque WTP	Mon 10/17/22	Mon 2/16/26	871 days																			
89	➤	CIP.2269000 - Improvements to Water Distribution System, Dorado/Vega Alta (Dorado Twist)	Thu 10/20/22	Wed 3/26/25	635 days																			
90	➤	CIP.2079004 - Improvements to Cerro Marquez WPS & 2.0 MG Tank, Municipality of Arecibo	Fri 10/28/22	Tue 4/29/25	653 days																			
91	➤	CIP.2349003 - Desing and Build 16" WL , PR-119 , Hatillo-Camuy	Tue 11/1/22	Thu 1/25/24	323 days																			
92	➤	CIP.4089000 - Rehabilitation of Arroyo-Guayama Trunk Sewer Lines (FAAST)	Mon 11/28/22	Mon 2/24/25	586 days																			
93	➤	CIP.3156094 - Replacement of RWI at Mameyes River for the Yunque WTP	Thu 12/1/22	Wed 3/4/26	850 days																			
94	➤	CIP.4575005 - Rehabilitation of Peñuelas WWTP (FAAST-25)	Thu 12/1/22	Wed 10/15/25	750 days																			
95	➤	CIP.3186003 - Rehabilitation of Cayey El Farallon WTP	Wed 12/7/22	Mon 3/10/25	589 days																			
96	➤	CIP.7349002 - Hatillo -Nuevo Sistema de Dis. Bo. Campo Alegre, Sectores 10 #NRW #JG (FAAST) .	Sat 12/17/22	Fri 12/13/24	521 days																			
97	➡	<b>2023</b>	<b>Sun 1/1/23</b>	<b>Mon 2/24/31</b>	<b>2126 days</b>																			
98	➤	CIP.3236247 - Rehabilitation of Comerío WWTP (FAAST)	Sun 1/1/23	Fri 12/12/25	771 days																			
99	➤	CIP.5486006 - Rehabilitation of Monte del Estado Maricao WTP	Sun 1/1/23	Thu 10/23/25	735 days																			
100	➤	CIP.5489001 - Rehabilitation of Maricao RWI	Sun 1/1/23	Fri 11/7/25	746 days																			

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Task		Project Summary		Manual Task		Start-only		Deadline	
Split		Inactive Task		Duration-only		Finish-only		Progress	
Milestone		Inactive Milestone		Manual Summary Rollup		External Tasks		Manual Progress	
Summary		Inactive Summary		Manual Summary		External Milestone			



ID	Task Mode	Task Name	Start	Finish	Duration	17	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
						H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2
101	🚀	CIP.2479000 - Desing and Build of 8" Water Line, Boquillas Ward, Municipality of Manatí	Mon 1/2/23	Wed 10/2/24	458 days																			
102	🚀	CIP.3009101 - Rehabilitation of Tanks Phase 2- East Region	Mon 1/2/23	Mon 11/4/24	481 days																			
103	🚀	CIP.4009001 - Rehabilitation of Tanks Phase 1-South Region	Sat 1/28/23	Thu 12/28/23	240 days																			
104	🚀	CIP.4695042 - Rehabilitation of Santa Isabel WWTP (FAAST)	Mon 1/30/23	Fri 10/17/25	710 days																			
105	🚀	CIP.5009106 - Rehabilitation of Raw Water Well Phase 1- West Region	Mon 1/30/23	Thu 11/28/24	479 days																			
106	🚀	CIP.4556009 - Rehabilitation of Sanamuertos Orocovis WTP	Mon 1/30/23	Wed 3/25/26	823 days																			
107	🚀	CIP.5036006 - Rehabilitation Aguadilla Montaña WTP	Tue 1/31/23	Thu 8/20/26	928 days																			
108	🚀	CIP.4229003 - Rehabilitation WL PR-155 Sector Farallones, Coamo (FAAST) #NRW #JG .	Tue 1/31/23	Fri 5/3/24	329 days																			
109	🚀	CIP.3466005 - Rehabilitation of Luquillo-Sabana WTP	Tue 1/31/23	Fri 2/15/30	1839 days																			
110	🚀	CIP.4555022 - Rehabilitation of Orocovis WWTP (FAAST-25)	Wed 2/1/23	Fri 4/25/25	583 days																			
111	🚀	CIP.1019001 - Rahabilitation of D&T-WL Bo. Sonadora, Renacer Sector and Mansiones, Municipality of Guaynabo	Wed 2/1/23	Fri 5/3/24	328 days																			
112	🚀	CIP.1019002 - Replacement of 2" WL Pipe, Camino Los Bigios Sector, Caimito Ward, Municipality of San Juan	Wed 2/1/23	Thu 4/4/24	307 days																			
113	🚀	CIP.1019003 - Replacement of WL Pipe, Ponce De Leon Avenue, Amelia Ward, Municipality of Guaynabo	Wed 2/1/23	Thu 10/31/24	457 days																			
114	🚀	CIP.1019004 - Replacement of WL Pipe, El Gato Sector at PR-834, Municipality of Guaynabo	Wed 2/1/23	Thu 4/4/24	307 days																			
115	🚀	CIP.1115069 - Replacement of WL Pipe, La Pra Sector and Los Fonseca, Buana Vista Ward, Municipality of Bayamón	Wed 2/1/23	Fri 8/2/24	393 days																			
116	🚀	CIP.1115070 - Replacement of WL Pipe, Doña Concha Community, Municipality of Bayamón	Wed 2/1/23	Fri 8/2/24	393 days																			
117	🚀	CIP.1115071 - Construction of WL Infraestructure, Los Fonseca Sector, Cerro Gordo Ward, Municipality of Bayamon	Wed 2/1/23	Fri 8/2/24	393 days																			
118	🚀	CIP.1159001 - Reeplacement and Renovation of WL , Urb. Loiza Valley, Municipality of Canóvanas	Wed 2/1/23	Tue 2/4/25	525 days																			
119	🚀	CIP.1169002 - Replacement and Renovation of WL, Urb. Villa Fontana, Muncipality of Carolina	Wed 2/1/23	Tue 2/4/25	525 days																			
120	🚀	CIP.1665120 - Rehabilitation of WL (SDR14) , Urb. Country Club, San Juan	Wed 2/1/23	Fri 1/3/25	503 days																			
121	🚀	CIP.1669101 - Replacement and Renovation of WL, Urb. Country Club, Muncipality of Carolina	Wed 2/1/23	Tue 2/4/25	525 days																			
122	🚀	CIP.2071000 - Improvements to Arecibo Water Distribution System	Wed 2/1/23	Thu 8/28/25	672 days																			
123	🚀	CIP.2346016 - Replacement of 4" and 6" WL , Bayaney Ward, Municipality of Hatillo	Wed 2/1/23	Fri 8/2/24	393 days																			
124	🚀	CIP.2389000 - Rehabilitation of 4" WL , Cuesta del Cementerio Sector, Municipality of Jayuya	Wed 2/1/23	Fri 5/3/24	328 days																			
125	🚀	CIP.2389001 - Improvements Tetuan III Com. Inst Water Pipeline 4"/2" PVC-SDR (FAAST) #NRW #JG	Wed 2/1/23	Tue 6/4/24	350 days																			
126	🚀	CIP.2419001 - Improvements to Rio Lajas Dorado Water Distribution System	Wed 2/1/23	Tue 2/4/25	525 days																			

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Task		Project Summary		Manual Task		Start-only		Deadline	
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Milestone		Inactive Milestone		Manual Summary Rollup		External Tasks		Manual Progress	
Summary		Inactive Summary		Manual Summary		External Milestone			

ID	Task Mode	Task Name	Start	Finish	Duration	17	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
						H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2
127	🚀	CIP.2526009 - Design and Build of Rehabilitation of 4" and 2 " Water Lines, Los Pedrozas Sector, Municipality of Morovis	Wed 2/1/23	Mon 9/2/24	414 days																			
128	🚀	CIP.2709002 - Design and Construction of 4" WL, Villa Esperanza Community, Municipality of Toa Alta	Wed 2/1/23	Tue 9/3/24	415 days																			
129	🚀	CIP.2736005 - Rehabilitation of Utuado Mameyes Limon (Arriba) WTP and RW	Wed 2/1/23	Wed 3/25/26	821 days																			
130	🚀	CIP.2736006 - Rehabilitation of Utuado Mameyes WTP and RWI	Wed 2/1/23	Fri 4/24/26	843 days																			
131	🚀	CIP.2736007 - Rehabilitation of Santa Isabel Utuado WTP and RWI	Wed 2/1/23	Fri 4/24/26	843 days																			
132	🚀	CIP.3019001 - Replacment of Swithgear WPS Piedras Blancas, Guaynabo (FAAST) #NRW #JG	Wed 2/1/23	Tue 2/4/25	525 days																			
133	🚀	CIP.3106105 - Rehabilitation of Barranquitas La Boca WTP and RWI	Wed 2/1/23	Fri 3/27/26	823 days																			
134	🚀	CIP.4399000 - Rehabilitation of WL Collores Sector PR 512, Juana Diaz (FAAST) #NRW #JG . .	Wed 2/1/23	Fri 5/3/24	328 days																			
135	🚀	CIP.4229004 - Rehabilitation of WL PR-150 Santa Catalina and San Idelfonso, Coamo (FAAST) #NRW #JG .	Wed 2/1/23	Fri 5/3/24	328 days																			
136	🚀	CIP.3785018 - Rehabilitation of Yabucoa WWTP (FAAST)	Wed 2/1/23	Tue 4/14/26	835 days																			
137	🚀	CIP.4649000 - Reemplacement of TSL Santos Amadeo, Baldorioty & Miguel Casco Urban, Salinas (FAAST) .	Mon 2/6/23	Fri 10/25/24	450 days																			
138	🚀	CIP.2071001 - Improvments to La Pica, El Peje, and Sabana Hoyos Water Distributtion System, Municipality of Vega Alta	Wed 3/1/23	Fri 8/30/24	393 days																			
139	🚀	CIP.4009204 - Rehabilitation of Wastewater Pump Stations Tanks Phase 2- South Region	Thu 3/9/23	Fri 6/4/27	1107 days																			
140	🚀	CIP.3009104 - Rehabilitation of Wastewater Pump Stations Tanks Phase 1- East Region	Fri 3/31/23	Fri 2/26/27	1021 days																			
141	🚀	CIP.5035001 - Rehabilitation of Aguada WWTP (FAAST-25)	Sat 4/1/23	Thu 4/8/27	1050 days																			
142	🚀	CIP.5506047 - Rehabilitation of Miradero Mayaguez WTP	Sat 4/1/23	Thu 2/12/26	750 days																			
143	🚀	CIP.5685000 - Replacement of Trunk Sewer Lines (TSL) in San Sebastián (FAAS	Sat 4/1/23	Thu 12/24/26	975 days																			
144	🚀	CIP.1009101 - Rehabilitation of Tanks Phase 2- Metro Region	Sat 4/1/23	Wed 6/3/26	829 days																			
145	🚀	CIP.1009203 - Rehabilitation of Water Pump Stations Tanks Phase 2- Metro Re	Sat 4/1/23	Wed 6/3/26	829 days																			
146	🚀	CIP.1009204 - Rehabilitation of Wastewater Pump Stations Tanks Phase 2- Metro Region	Sat 4/1/23	Wed 6/3/26	829 days																			
147	🚀	CIP.3009204 - Rehabilitation of Wastewater Pump Stations Tanks Phase 2- East Region	Sat 4/1/23	Fri 2/26/27	1021 days																			
148	🚀	CIP.3045036 - Rehabilitation of Aguas Buenas WWTP (FAAST)	Sat 4/1/23	Thu 1/7/27	985 days																			
149	🚀	CIP.7776071 - Rehabilitation of Toa Vaca Dam	Sun 4/2/23	Wed 2/26/25	499 days																			
150	🚀	CIP.4316007 - Rehabilitation of Jaguas Pasto Guayanilla WTP	Sun 4/2/23	Thu 12/26/24	455 days																			
151	🚀	CIP.4016012 - Rehabilitation of Adjuntas Guilarte WTP	Sun 4/2/23	Tue 3/31/26	783 days																			
152	🚀	CIP.4089001 - Rehabilitation of WL Buena Vista Sector , Arroyo (FAAST) #NRW	Sun 4/2/23	Thu 5/2/24	285 days																			
153	🚀	CIP.4779001 - Replacement of WL Limón Sector, Villalba (FAAST) #NRW #JG .	Sun 4/2/23	Tue 10/1/24	393 days																			
154	🚀	CIP.4779002 - Rehabiliation of W Chichón Sector, Villalba (FAAST) #NRW #JG .	Sun 4/2/23	Thu 5/2/24	285 days																			

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Task		Project Summary		Manual Task		Start-only		Deadline	
Split		Inactive Task		Duration-only		Finish-only		Progress	
Milestone		Inactive Milestone		Manual Summary Rollup		External Tasks		Manual Progress	
Summary		Inactive Summary		Manual Summary		External Milestone			

ID	Task Mode	Task Name	Start	Finish	Duration	17	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
						H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2
155	➤	CIP.5069000 - Design and Build Installation of 4" WL Parcelas Aqlas Aquilino, Añasco (FAAST) #NRW #JG	Sun 4/2/23	Mon 2/3/25	482 days																			
156	➤	CIP.5129001 - Design & Build Installation of 4" WL Betances Community, Llanos Tuna Ward, Cabo Rojo (FAAST) #NRW #JG	Sun 4/2/23	Mon 2/3/25	482 days																			
157	➤	CIP.5379000 - Desing and Build Installation of 4" WL Chevín Sector, Isabela (FAAST) #NRW #JG	Sun 4/2/23	Mon 2/3/25	482 days																			
158	➤	CIP.5509000 - Design & Build Installation 6" and 4" WL , París Ward, Mayaguez (FAAST) #NRW #J	Sun 4/2/23	Mon 2/3/25	482 days																			
159	➤	CIP.5579003 - Design and Build 4" WL PR-41, PR-412, PR-412, PR-412, Corea Sector, Rincón (FAAST)#N	Sun 4/2/23	Mon 2/3/25	482 days																			
160	➤	CIP.5609002 - Design and Build Installation of 4" WL, Camino Blaco Black Eagle, Rincón (FAAST) #NRW #JG	Sun 4/2/23	Mon 2/3/25	482 days																			
161	➤	CIP.5639000 - Desing and Build Installation of 4" WL, Algarrobo, Azucena and Parcela Lluveras, Sabana Grande (FAAST) #NRW #JG .	Sun 4/2/23	Mon 2/3/25	482 days																			
162	➤	CIP.4317001 - Construction Sector Ballinó Guayanilla WPS (FAAST)	Sun 4/2/23	Tue 12/31/24	458 days																			
163	➤	CIP.4559002 - Rehabilitation of WL El Gato Ward, Orocovis, PR (FAAST) .	Tue 5/2/23	Wed 12/4/24	417 days																			
164	➤	CIP.3139004 - Extension to Water Systme Aguas Buenas Mulas Tizas (FAAST) #NRW #JG .	Tue 5/2/23	Fri 9/20/24	364 days																			
165	➤	CIP.3185033 - Rehabilitation of Cayey WWTP (FAAST-25)	Tue 5/2/23	Fri 1/22/27	974 days																			
166	➤	CIP.3279001 - Rehabilitation of Swithgear Fajardo WWTP (FAAST) #NRW #JG .	Tue 5/2/23	Fri 6/27/25	564 days																			
167	➤	CIP.5067002 - Improvements to Water System Community Del Hoyo de los Feos, Añasco (FAAST) .	Tue 5/30/23	Fri 7/25/25	564 days																			
168	➤	CIP.2095052 - Rehabilitation of 42 IN Trunk Sewer Line from PR-684 to the South part of Barceloneta WWTP	Thu 6/1/23	Mon 1/13/25	423 days																			
169	➤	CIP.4495001 - Rehabilitation or Elimination of Maunabo WWTP (FAAST-25)	Thu 6/1/23	Wed 8/27/25	585 days																			
170	➤	CIP.3765002 - Rehabilitation Vieques WWTP (FAAST) . .	Thu 6/1/23	Thu 7/30/26	826 days																			
171	➤	CIP.5009000 - Rehabilitation of West Region Facilities	Thu 6/1/23	Fri 12/20/24	407 days																			
172	➤	CIP.1159000 - Desing and Build of Rehabilitation of Water Pump Station at La Central , Municipality of Canóvanas	Thu 6/1/23	Mon 10/27/25	628 days																			
173	➤	CIP.1665900 - Rahabilitation of Martín Peña WWPS (Tokio) , Municipality of San Juan	Thu 6/1/23	Tue 2/24/26	714 days																			
174	➤	CIP.4009000 - Bauta Tunnel (FEMA 404/CDBG-MIT)	Thu 6/1/23	Mon 12/10/29	1703 days																			
175	➤	CIP.5486007 - Rehabilitation of Maricao WTP	Sat 6/3/23	Fri 10/2/26	871 days																			
176	➤	CIP.5089000 - Rehabilitation of Las Marías WWTP (FAAST-25)	Thu 6/29/23	Wed 3/19/25	450 days																			
177	➤	CIP.3786004 - Rehabilitation of Yabucoa La Pica WTP	Thu 6/29/23	Fri 11/29/30	1937 days																			
178	➤	CIP.4776077 - Rehabilitation of Villalba Apeadero WTP	Fri 6/30/23	Fri 1/23/26	671 days																			
179	➤	CIP.5415031 - Rehabilitation of Lajas WWTP (FAAST)	Sat 7/1/23	Wed 12/30/26	914 days																			
180	➤	CIP.4576002 - Rehabilitation of Peñuelas WTP	Sat 7/1/23	Mon 5/25/26	757 days																			
181	➤	CIP.5596001 - Rehabilitation of Quebradillas Guajataca WTP and RWI	Sat 7/1/23	Mon 12/21/26	907 days																			
182	➤	CIP.5685006 - Improvements to Villa Rita Drinking Water System, San Sebastián (FAAST) .	Sat 7/1/23	Tue 2/4/25	418 days																			

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Task		Project Summary		Manual Task		Start-only		Deadline	
Split		Inactive Task		Duration-only		Finish-only		Progress	
Milestone		Inactive Milestone		Manual Summary Rollup		External Tasks		Manual Progress	
Summary		Inactive Summary		Manual Summary		External Milestone			

ID	Task Mode	Task Name	Start	Finish	Duration	17	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
						H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2
183	➤	CIP.2076044 - Installation of MCC at Medio Millon Arecibo WST & WPS	Sat 7/1/23	Mon 12/2/24	372 days																			
184	➤	CIP.5506046 - Rehabilitation of Ponce de Leon Mayaguez WTP	Tue 7/4/23	Mon 4/27/26	735 days																			
185	➤	CIP.4009101 - Rehabilitation of Tanks Phase 2-South Region	Sat 7/8/23	Wed 5/28/25	494 days																			
186	➤	CIP.5609001 - Installation of 12" WL PR-115, Rincón (FAAST)	Sun 7/30/23	Wed 2/26/25	414 days																			
187	➤	CIP.4796004 - Rehabilitation of Yauco Río Prieto WTP	Mon 7/31/23	Thu 11/19/26	864 days																			
188	➤	CIP.3536007 - Rehabilitation Naguabo El Duque WTP	Mon 7/31/23	Fri 4/27/29	1500 days																			
189	➤	CIP.1669001 - Improvements to Water Distribution System, Hollywood Hills, Municipality of San Juan	Tue 8/1/23	Fri 7/4/25	504 days																			
190	➤	CIP.5009103 - Rehabilitation of Water Pump Stations Tanks Phase 1- West Region	Wed 8/2/23	Mon 2/1/27	914 days																			
191	➤	CIP.5009104 - Rehabilitation of Wastewater Pump Stations Tanks Phase 1- West Region	Wed 8/2/23	Mon 2/1/27	914 days																			
192	➤	CIP.4315010 - Rehabilitation of Guayanilla WWTP (FAAST)	Wed 8/30/23	Wed 4/5/28	1201 days																			
193	➤	CIP.5506044 - Rehabilitation of Miradero en Mayagüez RWI	Fri 9/1/23	Wed 12/23/26	864 days																			
194	➤	CIP.5009101 - Rehabilitation of Tanks Phase 2-West Region	Thu 9/28/23	Wed 6/3/26	700 days																			
195	➤	CIP.5009203 - Rehabilitation of Water Pump Stations Tanks Phase 2- West Region	Thu 9/28/23	Tue 3/30/27	914 days																			
196	➤	CIP.2475025 - Replacement of TSL Río Manatí Sifon, Manatí-Barceloneta	Sat 9/30/23	Fri 11/20/26	821 days																			
197	➤	CIP.1009002 - Carraizo Reservoir Sediment Control	Sun 10/1/23	Wed 2/4/26	614 days																			
198	➤	CIP.5009204 - Rehabilitation of Wastewater Pump Stations Tanks Phase 2- West Region	Sun 10/1/23	Wed 3/31/27	914 days																			
199	➤	CIP.5509105 - Rehabilitation of Mayaguez Ocean Outfall	Sun 10/1/23	Thu 2/18/27	885 days																			
200	➤	CIP.2269002 - Elimination of Several WWTP North Region (FAAST 406)	Thu 12/28/23	Mon 2/24/31	1868 days																			
201	➤	CIP.1665115 - Rehabilitation of Puerto Nuevo WWTP, Municipality of San Juan	Fri 12/29/23	Wed 1/26/28	1064 days																			
202	➤	<b>2024</b>	<b>Mon 1/1/24</b>	<b>Thu 6/28/35</b>	<b>2999 days</b>																			
203	➤	CIP.2149105 - Rehabilitation of Camuy Ocean Outfall	Mon 1/1/24	Mon 9/20/27	971 days																			
204	➤	CIP.3136009 - Improvements to the Water Supply System in Villa del Rey Ward in Caguas (FAAST)	Wed 1/31/24	Thu 7/3/25	372 days																			
205	➤	CIP.2009101 - Rehabilitation of Tanks Phase 2- North Region	Mon 4/1/24	Thu 6/3/27	829 days																			
206	➤	CIP.2009203 - Rehabilitation of Water Pump Stations Tanks Phase 2- North Region	Mon 4/1/24	Thu 6/3/27	829 days																			
207	➤	CIP.2009204 - Rehabilitation of Wastewater Pump Stations Tanks Phase 2- North Region	Mon 4/1/24	Thu 6/3/27	829 days																			
208	➤	CIP.1156004 - Rehabilitation of Cubuy WTP and RWI, Municipality of Canóvan	Sat 6/1/24	Tue 5/30/28	1043 days																			
209	➤	CIP.5506042 - Improvements to the Water Supply System in Mayaguez Mall(FAAST)	Tue 7/30/24	Mon 1/4/27	635 days																			
210	➤	CIP.7688000 - Elimination of Los Alamos WWPS San Sebastian	Tue 7/30/24	Fri 9/25/26	564 days																			
211	➤	CIP.4009106 - Rehabilitation of Raw Water Well Phase 1- South Region	Sat 9/28/24	Thu 6/26/25	195 days																			
212	➤	CIP.4009104 - Rehabilitation of Wastewater Pump Stations Tanks Phase 1- South Region	Sat 9/28/24	Tue 12/8/26	573 days																			
213	➤	CIP.5685001 - Rehabilitation of Chinito Rondon WWPS San Sebastian	Wed 10/30/24	Mon 4/27/26	389 days																			
214	➤	CIP.6009007 - Rehabilitation to PRASA Buildings Islandwide LS Project (FAST)	Sun 12/1/24	Thu 6/28/35	2760 days																			

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Task		Project Summary		Manual Task		Start-only		Deadline	
Split		Inactive Task		Duration-only		Finish-only		Progress	
Milestone		Inactive Milestone		Manual Summary Rollup		External Tasks		Manual Progress	
Summary		Inactive Summary		Manual Summary		External Milestone			

ID	Task Mode	Task Name	Start	Finish	Duration	Year												
						17 H2	2018 H1 H2	2019 H1 H2	2020 H1 H2	2021 H1 H2	2022 H1 H2	2023 H1 H2	2024 H1 H2	2025 H1 H2	2026 H1 H2	2027 H1 H2	2028 H1 H2	2029 H1 H2
215	🚀	CIP.6009016 - Rehabilitation to PRASA WTP Islandwide LS Project (FAAST)	Sun 12/1/24	Thu 6/28/35	2760 days	[Bar chart showing task duration from 2025 to 2035]												
216	🚀	CIP.6009017 - Rehabilitation to PRASA WWTP Islandwide LS Project (FAST)	Sun 12/1/24	Thu 6/28/35	2760 days	[Bar chart showing task duration from 2025 to 2035]												
217	🚀	CIP.2386049 - Elimination of Jayuya Canalizo WTP and RWI	Sun 12/1/24	Wed 5/24/28	909 days	[Bar chart showing task duration from 2025 to 2028]												
218	🚀	CIP.2736008 - Rehabilitation of Utuado Roncador WTP and RWI	Sun 12/1/24	Tue 12/14/27	793 days	[Bar chart showing task duration from 2025 to 2027]												
219	📅	<b>2025</b>	<b>Tue 3/11/25</b>	<b>Mon 7/30/35</b>	<b>2710 days</b>	[Summary bar for 2025 from 3/11/25 to 7/30/35]												
220	🚀	CIP.3106104 - Rehabilitation of Barranquitas WTP and RWI	Tue 3/11/25	Thu 3/23/28	793 days	[Bar chart showing task duration from 2025 to 2028]												
221	🚀	CIP.6009001 - Water Storage Tanks Islandwide (FAAST)	Thu 5/1/25	Mon 7/2/35	2653 days	[Bar chart showing task duration from 2025 to 2035]												
222	🚀	CIP.6009003 - Rehabilitation of WPS Islandwide LS Project (FAAST)	Sun 6/1/25	Thu 6/28/35	2630 days	[Bar chart showing task duration from 2025 to 2035]												
223	🚀	CIP.6009004 - Rehabilitation of WWPS Islandwide LS Project (FAAST)	Sun 6/1/25	Thu 6/28/35	2630 days	[Bar chart showing task duration from 2025 to 2035]												
224	🚀	CIP.6009010 - Reservoir Dredging Islandwide LS Project	Sun 6/15/25	Mon 7/30/35	2642 days	[Bar chart showing task duration from 2025 to 2035]												
225	🚀	CIP.3186002 - Rehabilitation of Cayey Urbana WTP	Tue 7/29/25	Wed 4/12/28	707 days	[Bar chart showing task duration from 2025 to 2028]												
226	🚀	CIP.6009008 - Projects Pending to Defined LS Project (FAAST)	Mon 9/15/25	Fri 6/29/35	2555 days	[Bar chart showing task duration from 2025 to 2035]												
227	🚀	CIP.6009011 - Rehabilitation to PRASA Dams Islandwide LS Project (FAST)	Mon 9/15/25	Fri 6/29/35	2555 days	[Bar chart showing task duration from 2025 to 2035]												
228	🚀	CIP.6009012 - Telemetry Islandwide LS Project (FAAST)	Mon 9/15/25	Fri 6/29/35	2555 days	[Bar chart showing task duration from 2025 to 2035]												
229	🚀	CIP.3136013 - Rehabilitation of Caguas Sur WTP	Thu 11/27/25	Mon 12/11/28	793 days	[Bar chart showing task duration from 2025 to 2028]												
230	🚀	CIP.2076043 - Rehabilitation of Río Arriba Arecibo WTP	Wed 12/17/25	Fri 12/29/28	793 days	[Bar chart showing task duration from 2025 to 2028]												
231	📅	<b>2026</b>	<b>Sun 4/26/26</b>	<b>Thu 5/8/31</b>	<b>1314 days</b>	[Summary bar for 2026 from 4/26/26 to 5/8/31]												
232	🚀	CIP.4009203 - Rehabilitation of Water Pump Stations Tanks Phase 2- South Re	Sun 4/26/26	Thu 6/3/27	290 days	[Bar chart showing task duration from 2026 to 2027]												
233	🚀	CIP.4586084 - Rehabilitation Ponce Guaraguao WTP	Sat 5/16/26	Mon 1/29/29	707 days	[Bar chart showing task duration from 2026 to 2029]												
234	🚀	CIP.4796005 - Rehabilitation Yauco Rancheras WTP	Tue 5/26/26	Wed 2/7/29	707 days	[Bar chart showing task duration from 2026 to 2029]												
235	🚀	CIP.5686045 - Rehabilitation of San Sebastian WTP and RWI	Sat 7/25/26	Mon 4/9/29	707 days	[Bar chart showing task duration from 2026 to 2029]												
236	🚀	CIP.3536002 - Rehabilitation of Naguabo Cubuy Este- Maizales LT2 WTP	Fri 8/14/26	Thu 5/8/31	1235 days	[Bar chart showing task duration from 2026 to 2031]												
237	🚀	CIP.3056002 - Rehabilitation of Aibonito WWTP (FAAST)	Sat 11/21/26	Tue 12/4/29	793 days	[Bar chart showing task duration from 2026 to 2029]												
238	🚀	CIP.2386048 - Elimination of Jayuya La Pica WTP and RWI	Wed 12/16/26	Fri 12/28/29	793 days	[Bar chart showing task duration from 2026 to 2029]												
239	📅	<b>2027</b>	<b>Fri 1/1/27</b>	<b>Fri 6/29/35</b>	<b>2216 days</b>	[Summary bar for 2027 from 1/1/27 to 6/29/35]												
240	🚀	CIP.1669002 - Rehabilitation of WPS of Puerto Nuevo and WL of 48", Municipality of San Juan	Fri 1/1/27	Tue 4/1/31	1108 days	[Bar chart showing task duration from 2027 to 2031]												
241	🚀	CIP.1156005 - Rehabilitation of Canóvanas Nueva WTP And RWI	Sun 1/10/27	Thu 1/16/31	1050 days	[Bar chart showing task duration from 2027 to 2031]												
242	🚀	CIP.2206106 - Rehabilitation of Jaguas Pesas Ciales WTP and RWI	Tue 2/9/27	Thu 2/21/30	793 days	[Bar chart showing task duration from 2027 to 2030]												
243	🚀	CIP.3186004 - Rehabilitation of Cayey Culebras Alto WTP	Wed 2/24/27	Thu 11/8/29	707 days	[Bar chart showing task duration from 2027 to 2029]												
244	🚀	CIP.3105032 - Rehabilitation of Barranquitas WWTP (FAAST)	Tue 3/16/27	Thu 3/28/30	793 days	[Bar chart showing task duration from 2027 to 2030]												
245	🚀	CIP.2545006 - Rehabilitation of Naranjito WWTP	Sat 4/10/27	Tue 10/29/30	928 days	[Bar chart showing task duration from 2027 to 2030]												
246	🚀	CIP.5636006 - Rehabilitation of Sabana Grande WTP and RWI	Mon 6/14/27	Tue 2/26/30	707 days	[Bar chart showing task duration from 2027 to 2030]												
247	🚀	CIP.6009014 - Trunk Sewer Lines (TSL) Islandwide LS Project (FAAST)	Tue 6/15/27	Fri 6/29/35	2099 days	[Bar chart showing task duration from 2027 to 2035]												
248	🚀	CIP.6009015 - T & D -WL Islandwide LS Project (FAAST) .	Tue 6/15/27	Fri 6/29/35	2099 days	[Bar chart showing task duration from 2027 to 2035]												
249	🚀	CIP.5656001 - Rehabilitation of Caín Alto San Germán WTP and RWI	Sat 6/19/27	Mon 3/4/30	707 days	[Bar chart showing task duration from 2027 to 2030]												
250	🚀	CIP.6009005 - Rehabilitation to PRASA Ocean Outfalls Islandwide LS Project (F	Wed 9/1/27	Fri 6/29/35	2043 days	[Bar chart showing task duration from 2027 to 2035]												
251	🚀	CIP.5376006 - Rehabilitation of Isabela Urbana WTP and RWI	Thu 9/2/27	Mon 11/25/30	843 days	[Bar chart showing task duration from 2027 to 2030]												

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Task		Project Summary		Manual Task		Start-only		Deadline	
Split		Inactive Task		Duration-only		Finish-only		Progress	
Milestone		Inactive Milestone		Manual Summary Rollup		External Tasks		Manual Progress	
Summary		Inactive Summary		Manual Summary		External Milestone			

ID	Task Mode	Task Name	Start	Finish	Duration	17	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
						H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2
252	🚀	CIP.5685004 - Rehabilitation of San Sebastián WWTP (FAAST-25)	Mon 9/27/27	Mon 7/1/30	721 days																			
253	🚀	CIP.3046005 - Rehabilitation of Aguas Buenas WTP	Mon 10/18/27	Wed 10/30/30	793 days																			
254	🚀	CIP.2386047 - Rehabilitation of Jayuya Urbano WTP and RWI	Mon 12/27/27	Wed 7/16/31	928 days																			
255	➡	<b>2028</b>	<b>Sun 1/16/28</b>	<b>Tue 1/13/32</b>	<b>1042 days</b>																			
256	🚀	CIP.2426101 - Rehabilitation of Lares WTP and RWI	Sun 1/16/28	Tue 1/28/31	793 days																			
257	🚀	CIP.2745019 - Rehabilitation of Vega Alta WWTP	Sat 2/5/28	Tue 2/18/31	793 days																			
258	🚀	CIP.3216066 - Rehabilitation of Cidra Urbano WTP	Fri 2/25/28	Mon 11/11/30	707 days																			
259	🚀	CIP.2076041 - Rehabilitation of Arecibo Urbano WTP	Fri 2/25/28	Tue 3/11/31	793 days																			
260	🚀	CIP.3136014 - Rehabilitation of Parcelas Borinquen Caguas WWTP	Thu 3/16/28	Mon 3/31/31	793 days																			
261	🚀	CIP.1116011 - Improvements to Barrio NuevoLT2 WTP, Municipality of Guayn	Tue 3/28/28	Thu 10/17/30	668 days																			
262	🚀	CIP.1616001 - Rehabilitation of Guzman Arriba WTP and RWI, Municipality of Río Grande	Tue 8/1/28	Thu 7/24/31	778 days																			
263	🚀	CIP.4795022 - Rehabilitation of Yauco WWTP (FAAST)	Thu 8/3/28	Mon 10/27/31	843 days																			
264	🚀	CIP.3276053 - Rehabilitation of Fajardo WTP	Sun 10/22/28	Tue 1/13/32	843 days																			
265	➡	<b>2031</b>	<b>Mon 12/1/31</b>	<b>Wed 12/13/34</b>	<b>793 days</b>																			
266	🚀	CIP.2246107 - Rehabilitation of Corozal Urbana WTP	Mon 12/1/31	Wed 12/13/34	793 days																			

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Task		Project Summary		Manual Task		Start-only		Deadline	
Split		Inactive Task		Duration-only		Finish-only		Progress	
Milestone		Inactive Milestone		Manual Summary Rollup		External Tasks		Manual Progress	
Summary		Inactive Summary		Manual Summary		External Milestone			