



2018-2019

Capital Improvement

Plan

Adopted December 4, 2017

TABLE OF CONTENTS

SECTION

SECTION I – INTRODUCTION

SECTION II – THE 2018-2019 CAPITAL IMPROVEMENT PLAN

APPENDICES

Appendix A – Glossary of Terms

Appendix B – Project Detail Forms

INTRODUCTION

The North Harris County Regional Water Authority (the “Authority”) was created by the 76th Texas Legislature in 1999 and confirmed by a special public election in 2000. The Authority’s mission included finding and assuring a long-term supply of quality drinking water at the lowest responsible cost. The new entity was also charged with promoting water conservation, as well as maintaining regulatory compliance. This last assignment was critical because the Harris-Galveston Subsidence District (the “HGSD”) had published its 1999 Regulatory Plan requiring our area *to reduce groundwater withdrawals to no more than 20 percent of total water demand by the year 2030*. Since no individual MUD or well owner had the ability to convert to surface water on their own, the Authority became the single entity to negotiate for a secure, long-term supply of drinking water for all the municipal utility districts, small municipalities and other permitted well owners within its boundaries. Perhaps the most critical task was to develop and construct the infrastructure to bring that water to the subdivisions within the boundaries of the Authority. The Authority was not given taxing ability; rather funding for the conversion to surface water comes from pumpage fees charged to the well owners and the sale of surface water.

Several disincentives were built into the HGSD Regulatory Plan, including a \$3.00/1,000 gallons (groundwater pumped) “penalty” fee that would be triggered: 1) If the Groundwater Reduction Plan (the “GRP”) was not submitted and certified according to the timeline; 2) If construction had not begun on the surface water delivery infrastructure by 2005; and 3) If the mandated groundwater pumpage reductions were not accomplished within the 2010, 2020 and 2030 timelines. The HGSD has issued several revisions to their regulatory plan and the currently adopted plan, (HGSD 2013 Regulatory Plan), stipulates a 60% conversion by 2025 and 80% by 2035 while increasing the disincentive fee to \$8.46/1000 gallons for calendar year 2018. The Authority has met all applicable deadlines to date.

As the GRP was being developed, it became apparent that some water districts within the Authority were experiencing difficulty with either water quality or water quantity to meet accelerating demand. These districts would soon be forced to decide whether or not to drill a new well -- sometimes at a cost of more than a million dollars -- that may be minimally used once the area converted to surface water in 2010.

From the outset, the Authority’s cornerstone precept was fairness and equity among all water users within its boundaries, and promised that the overall cost of accommodating the HGSD mandate would be shared by everyone. Random drilling of new wells that were not ideally positioned to be incorporated into the long term distribution system was clearly not cost-effective. Recognizing this, the Authority initiated a bold new strategy to share existing groundwater supplies by ‘connecting’ the districts that had surplus capacity in their wells with the ones that needed additional water immediately. This innovative solution – called the Groundwater Transfer Program (the “GTP”) – involved constructing portions of the 2010 distribution lines significantly earlier than originally planned. The necessary components of the GTP were completed and the GTP was placed in operation in January

2006. After very successfully meeting its intended purpose, the GTP ended in June 2010 with the conversion to surface water by the involved districts.

The Authority's system was ready to begin delivering surface water in September 2009. However, the first districts did not begin to take surface water until February 2010. The remaining districts scheduled to receive surface water continued to come online as their chloramination facilities were ready with the last district coming on line in March 2011.

The HGSD updated its Regulatory Plan ("Plan") in January 2013. The updated Plan extended the 2020 and 2030 conversion deadlines each back five years to 2025 and 2035 respectively. Also the conversion requirements were reduced to 60% in 2025 and set at 80% for 2035. Additionally, existing certified GRPs were required to incorporate any changes required by the updated Regulatory Plan and be resubmitted for certification no later than July 1, 2014. The Authority submitted its updated GRP to the HGSD on June 26, 2014. The HGSD approved the Authority's updated GRP October 14, 2015.

In 2003, the Authority adopted its initial **Capital Improvement Plan** ("CIP") for years 2004-2005. The primary focus of that CIP, and the one following it, was to define and construct the infrastructure necessary to launch the GTP. Subsequent plans expanded on this foundation by outlining and implementing a broad-based program to provide the remainder of the infrastructure necessary to enable the initial conversion to surface water in 2010. The 2018-2019 Capital Improvement Plan (the "2018-2019 CIP") provides for enhancements to the 2010 system to facilitate a continuous satisfactory level of conversion to surface water and focuses on the planning and initial development of the infrastructure, especially those requiring coordination with other regional water providers and long delivery periods, needed to meet the HGSD 2025 conversion mandate.

SECTION II – THE 2018-2019 CAPITAL IMPROVEMENT PLAN

Overview

The 2018-2019 CIP continues the systematic planning and development process that began when the Authority's Board adopted the Authority's first CIP in 2003. The primary focus of the 2018-2019 CIP is to continue the planning and development of the infrastructure required to enable the Authority to meet the HGSD's 2025 conversion requirement.

Significant activities addressed in the 2018-2019 CIP are:

- Continue maintenance and enhancements of the Authority's existing Regional Pump Station and Water Plant.
- Continue evaluating the need for additional regional water wells and enhancements to the 2010 system and take necessary efforts to optimize use of the system.
- Identify and purchase the sites for the third Regional Pump Station and second Regional Water Plant.
- Initiate design of the initial phase of the State Hwy. 249 Regional Pump Station.
- Initiate design and construction of the 2025 transmission line.
- Provide funding for the Authority's share of the major expansion of the Northeast Water Purification Plant (the "NEWPP").
- Provide funding for the Authority's share of the cost of major rehabilitation, reconstruction and upgrading of the existing NEWPP.
- Provide funding for the Authority's share of the cost for acquisition of real estate and the design of the proposed joint transmission line from the NEWPP site to the Authority's proposed 2025 transmission line.
- Pay the Authority's portion of the initial loan costs for the Luce Bayou Interbasin Diversion Project.
- Continue the planning and design and construction of the 2025 distribution system.
- Provide funding for the Chloramination Credit.
- Provide funding to help encourage and facilitate implementation of reuse systems.
- Provide professional services to perform the wide variety of activities required to implement the 2018-2019 CIP.

Details on the specific projects are presented in *Appendix B*.

Considerations

The 2018-2019 CIP has been developed using the best, currently available information for the scope of each project along with cost information from a variety of sources, including cost experience from the Authority's projects completed to date. While the Authority's body of empirical cost data is expanding, especially in terms of water lines, the cost base is still evolving in several areas. Accordingly, the following points are offered to help keep the implementation of this 2018-2019 CIP in perspective:

- It is possible that conditions would evolve on a project that could materially impact the cost of the project.
- Real estate and construction costs can be and are influenced by variables over which the Authority has no control.
- It is common to experience unexpected costs in the implementation of a CIP. Provision of a contingency is the most practical way to attempt to address this issue.

Financial

While the 2004-2005 CIP used the best cost estimation available at the time, it did not have the benefit of building upon actual prior Authority project experience; instead, the costing was based on the general project definition presented in the GRP. As the actual design of the projects proceeded and the criteria within which the Authority needed to develop its projects became clearer, it has become possible to sharpen the definition of the projects. As a result, the ability to estimate the project costs has improved. The estimated costs included in the 2018-2019 CIP have been updated and/or based - wherever possible and practical - on experience gained thus far on actual Authority projects.

The proceeds from the Authority's Series 2003, 2005, 2008 and 2016 Senior Lien Revenue Bonds, capital contributions and interest earned (collectively called "Revenue Bonds") used to support the capital improvement plans total approximately \$491 million. As seen in the following table, approximately \$82 million of Revenue Bonds will be used to implement the 2018-2019 CIP. Additionally, approximately \$727 million of Texas Water Development Board State Water Infrastructure Fund for Texas ("SWIFT) funds are committed to implement the 2018-2019 CIP.

SUMMARY OF 2018-2019 CAPITAL IMPROVEMENT PLAN

Category	Authorizations ¹ (Thousands)		Fiscal Year Planned Authorizations (Thousands)		Total
	1/1/03-9/30/17	10/1/17-12/31/17	2018	2019	
Acquisition	\$ 35,559	\$	\$ 8,405	\$ 7,552	\$ 51,516
Design	67,056		19,885	5,050	91,991
Construction	243,241		60,590	205,838	509,669
Equipment					
Other	145,720	386	376,570	135,871	658,547
Total Authorizations	\$ 491,576	\$ 386	\$ 465,450	\$ 354,311	\$ 1,311,723
Source of Funds					
Revenue Bonds	\$ 408,612	\$ 386	\$ 50,124	\$ 31,898	\$ 491,020
SWIFT Funds	82,964		415,326	311,308	809,598
To Be Determined				11,105	11,105
Total Funds	\$ 491,576	\$ 386	\$ 465,450	\$ 354,311	\$ 1,311,723

¹ Authorizations do not typically represent actual expenditures.

APPENDIX A

GLOSSARY OF TERMS

Acquisition	Includes the cost to purchase land and easements and the acquisition services (i.e. ROW Services, appraisals, legal, etc.) required to accomplish the purchase
Authorization	Amount designated for or authorized for the performance of work, service, equipment or participation agreements - the values typically do not represent actual expenditure of funds
Design	Includes the cost for program management, project planning, design related services, design management and other engineering and planning activities
Construction	Includes the cost of the construction contract, contingencies, construction administration, construction observation and materials testing
Equipment	Includes the cost of any equipment that may be purchased separately from a construction contract
FWSD	Fresh Water Supply District
ID	Improvement District
MUD	Municipal Utility District
N/A	Not Applicable or Contingency C.I.P. Number
Other	A general category that may include participation commitments with other parties, acquisition, design, construction, equipment or any other relevant costs
PUD	Public Utility District
UD	Utility District
VAR	Various districts or key map locations as applicable
WCID	Water Control & Improvement District

APPENDIX B
PROJECT DETAIL FORMS

**2018 – 2019
CAPITAL IMPROVEMENT PLAN**

**NORTH HARRIS COUNTY
REGIONAL WATER AUTHORITY**

Project: SPEARS ROAD REGIONAL PUMP STATION			District: VAR		C.I.P. Number: 2	
					Key Map: 372J	
Description: Project provides for the design, construction and upgrades/enhancements of this regional pump station.						
Category	Authorizations (Thousands)		Fiscal Year Planned Authorizations (Thousands)		Project Total	
	1/1/03-9/30/17	10/1/17-12/31/1	2018	2019		
Acquisition	5,924				5,924	
Design	3,457	0	95		3,552	
Construction	37,083	0	1,090		38,173	
Equipment					0	
Other			200	200	400	
Total Authorizations	46,464	0	1,385	200	48,049	
Source of Funds						
Revenue Bonds	46,464	0	1,385	200	48,049	
SWIFT Funds						
To Be Determined						
Total Funds	46,464	0	1,385	200	48,049	

Project: REGIONAL WELLS			District: VAR		C.I.P. Number: 3	
					Key Map: VAR	
Description: Project provides for the acquisition of well sites and design and construction of new wells and appurtenances and/or the purchase of existing wells. The wells will be constructed or purchased for emergency supplies of water as needed by the Authority to facilitate operation of its System.						
Category	Authorizations (Thousands)		Fiscal Year Planned Authorizations (Thousands)		Project Total	
	1/1/03-9/30/17	10/1/17-12/31/17	2018	2019		
Acquisition	3				3	
Design	120				120	
Construction					0	
Equipment					0	
Other			200	7,500	7,700	
Total Authorizations	123		200	7,500	7,823	
Source of Funds						
Revenue Bonds	123	0	200	7,500	7,823	
SWIFT Funds						
To Be Determined						
Total Funds	123	0	200	7,500	7,823	

**2018 – 2019
CAPITAL IMPROVEMENT PLAN**

**NORTH HARRIS COUNTY
REGIONAL WATER AUTHORITY**

Project: LOUETTA REGIONAL WATER PLANT			District: 2, 4		C.I.P. Number: 5	
					Key Map: 329R	
Description: Project provides for the design, construction and upgrades/enhancements of this regional water plant.						
Category	Authorizations (Thousands)		Fiscal Year Planned Authorizations (Thousands)		Project Total	
	1/1/03-9/30/17	10/1/17-12/31/17	2018	2019		
Acquisition	967				967	
Design	1,481		85		1,566	
Construction	17,407		1,157		18,564	
Equipment	0		0		0	
Other	0		100	100	200	
Total Authorizations	19,855		1,342	100	21,297	
Source of Funds						
Revenue Bonds	19,855		1,342	100	21,297	
SWIFT Funds						
To Be Determined						
Total Funds	19,855	0	1,342	100	21,297	

Project: WEST REGIONAL WATER PLANT			District: 1		C.I.P. Number: 21	
					Key Map: 368E	
Description: Project provides for the siting study and site acquisition for this regional pump station. This facility will be part of the 2035 Water Distribution and Transmission System.						
Category	Authorizations (Thousands)		Fiscal Year Planned Authorizations (Thousands)		Project Total	
	1/1/03-9/30/17	10/1/17-12/31/17	2018	2019		
Acquisition			255	2,973	3,228	
Design						
Construction						
Equipment						
Other						
Total Authorizations			255	2,973	3,228	
Source of Funds						
Revenue Bonds			255	2,973	3,228	
SWIFT Funds						
To Be Determined						
Total Funds			255	2,973	3,228	

**2018 – 2019
CAPITAL IMPROVEMENT PLAN**

**NORTH HARRIS COUNTY
REGIONAL WATER AUTHORITY**

Project: HARDY REGIONAL PUMP STATION			District: VAR		C.I.P. Number: 23	
					Key Map: 333S	
Description: Project provides for the siting study and site acquisition for this regional pump station. This facility will be part of the 2025 Water Distribution and Transmission System.						
Category	Authorizations (Thousands)		Fiscal Year Planned Authorizations (Thousands)		Project Total	
	1/1/03-9/30/17	10/1/17-12/31/17	2018	2019		
Acquisition			1,022	4,579	5,601	
Design						
Construction						
Equipment						
Other						
Total Authorizations			1,022	4,579	5,601	
Source of Funds						
Revenue Bonds			1,022	4,579	5,601	
SWIFT Funds						
To Be Determined						
Total Funds	0	0	1,022	4,579	5,601	

Project: SH 249 REGIONAL PUMP STATION			District: VAR		C.I.P. Number: 24	
					Key Map: 370S	
Description: Project provides for the design and construction of this regional pump station. This facility will be part of the 2025 Distribution and Transmission System.						
Category	Authorizations (Thousands)		Fiscal Year Planned Authorizations (Thousands)		Project Total	
	1/1/03-9/30/17	10/1/17-12/31/17	2018	2019		
Acquisition	4,625				4,625	
Design	548		6,480		7,028	
Construction	346			89,700	90,046	
Equipment						
Other			500		500	
Total Authorizations	5,519		6,980	89,700	102,199	
Source of Funds						
Revenue Bonds	5,519				5,519	
SWIFT Funds	0	0	6,980	89,700	96,680	
To Be Determined	0					
Total Funds	5,519		6,980	89,700	102,199	

**2018 – 2019
CAPITAL IMPROVEMENT PLAN**

**NORTH HARRIS COUNTY
REGIONAL WATER AUTHORITY**

Project: 2025 TRANSMISSION LINE			District: VAR		C.I.P. Number: 25	
					Key Map: VAR	
Description: Project provides for the acquisition, design and construction of a major transmission line generally located in the CenterPoint transmission corridor along North Beltway 8 from the City of Houston take point just west of IH45 to just west of State Hwy 249. This line will be part of the 2025 Water Distribution and Transmission System.						
Category	Authorizations (Thousands)		Fiscal Year Planned Authorizations (Thousands)		Project Total	
	1/1/03-9/30/17	10/1/17-12/31/17	2018	2019		
Acquisition	6,028		4,266		10,294	
Design	1,490		5,678		7,168	
Construction				105,033	105,033	
Equipment						
Other						
Total Authorizations	7,518	0	9,944	105,033	122,495	
Source of Funds						
Revenue Bonds	7,104				7,104	
SWIFT Funds	414	0	9,944	105,033	115,391	
To Be Determined						
Total Funds	7,518		9,944	105,033	122,495	

Project: WATER SUPPLY			District: ALL		C.I.P. Number: 26	
					Key Map: VAR	
Description: Provides funding to pay the City of Houston for water in accordance with the Authority's Water Supply Contract and Supplement No. 2 to the Contract with the City. Funding included herein will help pay for the Authority's portion of the cost to expand the Northeast Water Purification Plant (NEWPP). Additionally, funds will be used to pay the Authority's share of the cost of Major Rehabilitation, reconstruction and upgrading of the existing NEWPP.						
Category	Authorizations (Thousands)		Fiscal Year Planned Authorizations (Thousands)		Project Total	
	1/1/03-9/30/17	10/1/17-12/31/17	2018	2019		
Acquisition						
Design	150	0			150	
Construction						
Equipment						
Other	80,747		272,075	13,575	366,397	
Total Authorizations	80,897		272,075	13,575	366,547	
Source of Funds						
Revenue Bonds	25,012				25,012	
SWIFT Funds	55,885		272,075	13,575	341,535	
To Be Determined						
Total Funds	80,897		272,075	13,575	366,547	

**2018 – 2019
CAPITAL IMPROVEMENT PLAN**

**NORTH HARRIS COUNTY
REGIONAL WATER AUTHORITY**

Project: LUCE BAYOU INTERBASIN DIVERSION PROJECT		District: ALL	C.I.P. Number: 27		
			Key Map: VAR		
Description: Provides funding to pay the City of Houston for the Authority's portion of the project costs. The project will deliver surface water from the Trinity River to Lake Houston. The water will be treated by the City of Houston and then delivered to the Authority and other users.					
Category	Authorizations (Thousands)		Fiscal Year Planned Authorizations (Thousands)		Project Total
	1/1/03-9/30/17	10/1/17-12/31/17	2018	2019	
Acquisition					
Design					
Construction					
Equipment					
Other	3,253	56	150	1,139	4,598
Total Authorizations	3,253	56	150	1,139	4,598
Source of Funds					
Revenue Bonds	3,253	56	150	1,139	4,598
SWIFT Funds					
To Be Determined					
Total Funds	3,253	56	150	1,139	4,598

Project: 2025 DISTRIBUTION SYSTEM		District: VAR	C.I.P. Number: 28		
			Key Map: VAR		
Description: Project provides for the design, real estate acquisition and construction of the initial component(s) of the 2025 Distribution System.					
Category	Authorizations (Thousands)		Fiscal Year Planned Authorizations (Thousands)		Project Total
	1/1/03-9/30/17	10/1/17-12/31/17	2018	2019	
Acquisition	200		2,862		3,062
Design	7,558		837		8,395
Construction	250		58,343	11,105	69,698
Equipment					
Other					
Total Authorizations	8,008	0	62,042	11,105	81,155
Source of Funds2					
Revenue Bonds	7,458		29,575		37,033
SWIFT Funds	550		32,467		33,017
To Be Determined	0			11,105	11,105
Total Funds	8,008	0	62,042	11,105	81,155

**2018 – 2019
CAPITAL IMPROVEMENT PLAN**

**NORTH HARRIS COUNTY
REGIONAL WATER AUTHORITY**

Project: CHLORAMINATION SYSTEMS		District: VAR		C.I.P. Number: 29	
				Key Map: VAR	
Description: Provides funding to pay a Chloramination Credit to Public Water Systems (the "PWSs") which receive surface water and converted to surface water. The Chloramination Credit is intended to reimburse the PWSs for the cost of chloramination facilities the PWSs constructed in order to use surface water.					
Category	Authorizations (Thousands)		Fiscal Year Planned Authorizations (Thousands)		Project Total
	1/1/03-9/30/17	10/1/17-12/31/17	2018	2019	
Acquisition					
Design					
Construction					
Equipment					
Other	9,979	386	1,545	1,545	13,455
Total Authorizations	9,979	386	1,545	1,545	13,455
Source of Funds					
Revenue Bonds	9,979	386	1,545	1,545	13,455
SWIFT Funds					
To Be Determined					
Total Funds	9,979	386	1,545	1,545	13,455

Project: NORTHEAST TRANSMISSION LINE		District: VAR		C.I.P. Number: 30	
				Key Map: VAR	
Description: This is the line from the Northeast Water Purification Plant which will be built in two segments. The first segment will be a 120-inch line in which all four water authorities and the City of Houston will own capacity. The second segment will be a 108-inch line in which the City of Houston, North Harris County Regional Water Authority and the Central Harris County Regional Water Authority will own capacity. The City is responsible for designing, acquiring land/easements for the line and constructing the line.					
Category	Authorizations (Thousands)		Fiscal Year Planned Authorizations (Thousands)		Project Total
	1/1/03-9/30/17	10/1/17-12/31/17	2018	2019	
Acquisition					
Design					
Construction					
Equipment					
Other	26,000	0	92,500	103,000	221,500
Total Authorizations	26,000	0	92,500	103,000	221,500
Source of Funds					
Revenue Bonds					
SWIFT Funds	26,000	0	92,500	103,000	221,500
To Be Determined					
Total Funds	26,000	0	92,500	103,000	221,500

**2018 – 2019
CAPITAL IMPROVEMENT PLAN**

**NORTH HARRIS COUNTY
REGIONAL WATER AUTHORITY**

Project: 2025 Distribution System (Second Phase)			District: VAR	C.I.P. Number: 31	
				Key Map: VAR	
Description: Project provides for the design, real estate acquisition and construction of the initial components of the second phase of the 2025 Distribution System.					
Category	Authorizations (Thousands)		Fiscal Year Planned Authorizations (Thousands)		Project Total
	1/1/03-9/30/17	10/1/17-12/31/17	2018	2019	
Acquisition					
Design			1,360		1,360
Construction					
Equipment					
Other					
Total Authorizations			1,360		1,360
Source of Funds					
Revenue Bonds					
SWIFT Funds			1,360		1,360
To Be Determined					
Total Funds			1,360		1,360

Project: City of Tomball			District: VAR	C.I.P. Number: 32	
				Key Map: VAR	
Description: Project provides for the design, real estate acquisition and construction of the 2025 Distribution System to the City of Tomball.					
Category	Authorizations (Thousands)		Fiscal Year Planned Authorizations (Thousands)		Project Total
	1/1/03-9/30/17	10/1/17-12/31/17	2018	2019	
Acquisition					
Design					
Construction					
Equipment					
Other			250	250	500
Total Authorizations			250	250	500
Source of Funds					
Revenue Bonds			250	250	500
SWIFT Funds					
To Be Determined					
Total Funds			250	250	500

**2017 – 2018
CAPITAL IMPROVEMENT PLAN**

**NORTH HARRIS COUNTY
REGIONAL WATER AUTHORITY**

Project: SYSTEM IMPROVEMENTS			District: VAR		C.I.P. Number: 100	
					Key Map: VAR	
Description: Project provides funding for possible required expansions or upgrades to the distribution system or transmission system, additional flushing hydrants, replacement flow control and/or metering station components, additional connection to districts receiving surface water, district backfill pilot systems, and other supplemental additions to facilitate the efficient operation of the Authority's System.						
Category	Authorizations (Thousands)		Fiscal Year Planned Authorizations (Thousands)		Project Total	
	1/1/03-9/30/17	10/1/17-12/31/17	2018	2019		
Acquisition						
Design	591				591	
Construction	4678				4678	
Equipment	0					
Other	284	0	3,200	3,200	6,684	
Total Authorizations	5,554	0	3,200	3,200	11,954	
Source of Funds						
Revenue Bonds	5,554	0	3,200	3,200	11,954	
SWIFT Funds						
To Be Determined						
Total Funds	5,554	0	3,200	3,200	11,954	

Project: CENTRAL CONTROL SYSTEM			District: VAR		C.I.P. Number: 101	
					Key Map: VAR	
Description: Project provides the design and construction of the Supervisory Control and Data Acquisition (SCADA) System, upgrades to same and related activities to facilitate the operation of the Authority's System.						
Category	Authorizations (Thousands)		Fiscal Year Planned Authorizations (Thousands)		Project Total	
	1/1/03-9/30/17	10/1/17-12/31/17	2018	2019		
Acquisition	100	0	0	0	100	
Design	2,274	0	100	100	2,474	
Construction	4,917	0	0	0	4,917	
Equipment						
Other			500	500	1,000	
Total Authorizations	7,291	0	600	600	8,491	
Source of Funds						
Revenue Bonds	7,291	0	600	600	8,491	
SWIFT Funds						
To Be Determined						
Total Funds	7,291	.0	600	600	8,491	

**2017 – 2018
CAPITAL IMPROVEMENT PLAN**

**NORTH HARRIS COUNTY
REGIONAL WATER AUTHORITY**

Project: WATER REUSE			District: VAR		C.I.P. Number: 102	
					Key Map: VAR	
Description: Project provides for engineering and other services to support the Authority's Water Reuse efforts and an allowance to participate in water reuse projects.						
Category	Authorizations (Thousands)		Fiscal Year Planned Authorizations (Thousands)		Project Total	
	1/1/03-9/30/17	10/1/17-12/31/17	2018	2019		
Acquisition						
Design	40	0	0	0	40	
Construction						
Equipment						
Other			500	1,000	1,500	
Total Authorizations	40	0	500	1,000	1,540	
Source of Funds						
Revenue Bonds	40	0	500	1,000	1,540	
SWIFT Funds						
To Be Determined						
Total Funds	40	0	500	1,000	1,540	

Project: SUPPORT AND SPECIALTY			District: VAR		C.I.P. Number: 200	
					Key Map: VAR	
Description: Provides various support and specialty professional services such as program management, control surveying, well location assessments, corrosion protections analysis, surge analysis, GIS and pricing policy/model updates.						
Category	Authorizations (Thousands)		Fiscal Year Planned Authorizations (Thousands)		Project Total	
	1/1/03-9/30/17	10/1/17-12/31/17	2018	2019		
Acquisition	691				691	
Design	25,605		5,250	4,950	35,805	
Construction						
Equipment						
Other						
Total Authorizations	26,296		5,250	4,950	36,496	
Source of Funds						
Revenue Bonds	26,181		5,250	4,950	36,381	
SWIFT Funds	115		0	0	115	
To Be Determined						
Total Funds	26,296		5,250	4,950	36,496	

**2017 – 2018
CAPITAL IMPROVEMENT PLAN**

**NORTH HARRIS COUNTY
REGIONAL WATER AUTHORITY**

Project: CONTINGENCY		District: VAR	C.I.P. Number: N/A		
			Key Map: VAR		
Description: Provides funding for costs in excess of original program estimates and unexpected necessary expenses such as those to facilitate escalation of program components, to facilitate system operations and to enable payment of exceptional real estate judgements.					
Category	Authorizations (Thousands)		Fiscal Year Planned Authorizations (Thousands)		Project Total
	1/1/03-9/30/17	10/1/17-12/31/17	2018	2019	
Acquisition					
Design					
Construction					
Equipment					
Other			5,000	5,000	10,000
Total Authorizations			5,000	5,000	10,000
Source of Funds					
Revenue Bonds			5,000	5,000	10,000
SWIFT Funds					
To Be Determined					
Total Funds			5,000	5,000	10,000