

NORTH SHORE WATER COMMISSION
2021 CAPITAL IMPROVEMENT BUDGET - APPROVED - 09/09/2020
(Staffing Level of 1 Manager, 2 Supervisors, 4 Relief Op/Tech, 1 Mech. Tech.)

-- REVENUES --

ACCT. NO. & TITLE	2017*	2018*	2019*	2019 BUDGET	2020 BUDGET	APPROVED	% CHNG. 20 to 21
	REVENUES	REVENUES	REVENUES			2021 BUDGET	
-- UTILITY OPERATING INCOME --							
Payment from Member Communities - Agreement	154,165	175,175	175,175	153,398	423,802	260,720	-38.5%
NSWC Fund Balance	320	13,995	6,572	-	1,000,000	-	-100.0%
Wholesale Water Sales	69,627	72,286	72,286	-	-	-	
Investment Income	4,840	11,550	11,550	-	-	-	
REVENUE TOTAL	228,632	259,011	259,011				
BUDGET TOTAL				153,398	1,423,802	260,720	-81.7%
<i>DIFFERENCE (YEAR-TO-YEAR)</i>				<i>(33,873)</i>	<i>1,270,404</i>	<i>(1,163,082)</i>	

*Revenues before surplus funds are refunded to member communities.

-- EXPENSES --

ACCT. NO. & TITLE	2017	2018	2019	2019 BUDGET	2020 BUDGET	APPROVED	% CHNG. 20 to 21
	EXPENSES	EXPENSES	EXPENSES			2021 BUDGET	
-- INTANGIBLE PLANT --							
301 -- Organization	-	-	-	-	-	-	
302 -- Franchises and Consents	-	-	-	-	-	-	
303 -- Miscellaneous Intangible Plant	-	-	-	-	-	-	
Total	-	-	-	-	-	-	
-- SOURCE OF SUPPLY PLANT --							
310 -- Land and Land Rights	-	-	-	-	-	-	
311 -- Structures and Improvements	-	-	-	-	-	-	
312 -- Collecting and Impounding Reservoirs	-	-	-	-	-	-	
313 -- Lake, Rivers, and Other Intakes	-	-	-	-	-	-	
314 -- Wells and Springs	-	-	-	-	-	-	
316 -- Supply Mains	-	-	-	-	-	-	
317 -- Other Water Source Plant	-	-	-	-	-	-	
Total	-	-	-	-	-	-	
-- PUMPING PLANT --							
320 -- Land and Land Rights	-	-	-	-	-	-	
321 -- Structures and Improvements	-	-	-	-	-	-	
323 -- Other Power Production Equipment	-	-	-	-	-	-	
325 -- Electric Pumping Equipment	-	10,000	57,000	-	11,144	-	-100.0%
326 -- Diesel Pumping Equipment	-	-	-	-	-	-	
328 -- Other Pumping Equipment	-	-	-	-	-	-	
Total	-	10,000	57,000	-	11,144	-	-100.0%
-- WATER TREATMENT PLANT --							
330 -- Land and Land Rights	-	-	-	-	-	-	
331 -- Structures and Improvements	-	-	-	-	-	-	
332 -- Sand or Other Media Filtration Equipment	50,176	105,128	84,954	118,398	1,404,658	131,197	-90.7%
333 -- Membrane Filtration Equipment	-	-	-	-	-	-	
334 -- Other Water Treatment Equipment	7,287	2,768	217	-	-	-	
Total	57,463	107,896	85,171	118,398	1,404,658	131,197	-90.7%
-- TRANSMISSION AND DISTRIBUTION PLANT --							
340 -- Land and Land Rights	-	-	-	-	-	-	
341 -- Structures and Improvements	-	-	-	-	-	-	
342 -- Distribution Reservoirs and Standpipes	-	-	-	-	-	-	
343 -- Transmission and Distribution Mains	-	-	-	-	-	-	
345 -- Services	-	-	-	-	-	-	
346 -- Meters	-	-	-	-	-	-	

348 -- Hydrants	-	-	-	-	-	-	-	
349 -- Other Transmission and Distribution Plant	-	-	-	-	-	-	-	
Total	-	-	-	-	-	-	-	
-- GENERAL PLANT --								
389 -- Land and Land Rights	-	-	-	-	-	-	-	
390 -- Structures and Improvements	-	-	-	-	-	-	-	
391 -- Office Furniture and Equipment	-	-	-	-	-	-	-	
391.1 -- Computer Equipment	-	-	-	-	-	-	32,269	
392 -- Transportation Equipment	21,796	-	-	-	-	-	-	
393 -- Stores Equipment	-	-	-	-	-	-	-	
394 -- Tools, Shop and Garage Equipment	825	7,648	-	-	8,000	-	-	-100.0%
395 -- Laboratory Equipment	-	1,256	4,040	-	-	-	-	
396 -- Power Operated Equipment	-	-	34,036	35,000	-	-	-	
397 -- Communication Equipment	-	-	-	-	-	-	-	
397.1 -- SCADA Equipment	74,401	62,370	1,500	-	-	-	10,500	
398 -- Miscellaneous Equipment	-	-	-	-	-	-	86,754	
Total	97,022	71,274	39,576	35,000	8,000	129,523	1519.0%	
EXPENSE TOTAL	154,485	189,170	181,747					
BUDGET TOTAL				153,398	1,423,802	260,720	-81.7%	
DIFFERENCE (YEAR-TO-YEAR)				(33,873)	1,270,404	(1,163,082)		

-- ALLOCATION TO MEMBERS --

	2021 Estimated Capital Allocation Rate	Annual Capital Commitment
Village of Whitefish Bay	32.53%	\$84,812.22
City of Glendale	50.09%	\$130,594.65
Village of Fox Point	17.38%	\$45,313.13
SUM	100.00%	\$260,720.00

**NORTH SHORE WATER COMMISSION
2021 CAPITAL IMPROVEMENT DETAIL - APPROVED - 09/09/2020**

**CAPITAL
BUDGET**

Capital Improvement Projects

Number	Description	<u>Total</u>
2021-1	Filter Improvements	\$ 106,197

Plant staff started a long-term replacement program of all pneumatic actuators in the plant in 2017. This equipment has numerous problems making them unreliable and energy inefficient. In 2021, plant staff plans on replacing approximately 9 actuators. Furthermore, the touchscreens on the filter consoles are over 15 years old and frequently cause network problems. Consequently, all 8 touchscreens would also be replaced with comparable equipment.

<u>Item Description</u>	<u>Estimated Cost</u>
Self-Performed Labor	\$ 10,197
Contracted Services	\$ 5,000
Direct Purchase of Materials and Equipment	\$ 82,000
Contingency	\$ 9,000

Number	Description	<u>Total</u>
2021-2	Video Surveillance Improvements	\$ 69,254

Most cameras installed by the Commission are over 14 years old or older. Cameras need to be replaced for enhanced security and additional surveillance equipment would be installed to prepare the Commission for unattended equipment.

<u>Item Description</u>	<u>Estimated Cost</u>
Self-Performed Labor	\$ 2,154
Contracted Services	\$ 61,000
Contingency	\$ 6,100

Number	Description	<u>Total</u>
2021-3	IT Improvements	\$ 32,269

Phones, networking equipment, computers, wireless mesh routers, and other IT equipment need to be updated or expanded.

<u>Item Description</u>	<u>Estimated Cost</u>
Self-Performed Labor	\$ 2,269
Direct Purchase of Materials and Equipment	\$ 28,000
Contingency	\$ 2,000

Number	Description	<u>Total</u>
2021-4	Alarm Notification Improvements	\$ 10,500

As per Baxter & Woodman's report, it is recommended that the Commission invest in alarm notification improvements to allow for unattended operations.

<u>Item Description</u>	<u>Estimated Cost</u>
Contracted Services	\$ 8,400
Contingency	\$ 2,100

Number	Description	<u>Total</u>
2021-5	Intrusion and Security Improvements	\$ 17,500

As per Baxter & Woodman's report, it is recommended that the Commission invest in security and intrusion hardware to allow for unattended operations.

<u>Item Description</u>	<u>Estimated Cost</u>
Contracted Services	\$ 14,000

Contingency	\$	3,500
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Number	Description	Total
2021-6	Continuous Filter Recycling Improvements	\$ 25,000

To allow for more efficient operation of the filters when the plant is unattended, and to address the concerns of WDNR about filter performance related to daily shutdown and restart of rapid sand filters, Baxter and Woodman recommend that the Commission install continuous filter recycling equipment. The equipment would allow for the Commission to recycle filter water and monitor water quality to ensure water meets WDNR regulations before the filter is turned back on again. This project would span 3 years (2021 through 2023).

Item Description	Estimated Cost
Self-Performed Labor	\$ -
Engineering	\$ 25,000

GRAND TOTAL	\$ 260,721
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FUNDING SOURCES

NSWC Capital Fund Balance	\$ -
Payment from Member Communities	\$ 260,721

GRAND TOTAL	\$ 260,721
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