

# WPCA BOND REQUEST SUMMARY FOR ALL 3 PLANTS AND PUMP STATIONS

	YEAR 1	YEAR 2	YEAR 3	YEAR4	YEAR 5	Totals
						-
Pawcatuck	\$1,831,000	\$160,000	\$188,000	\$205,000	\$85,000	\$2,469,000
						\$0
Borough	\$597,500	\$229,000	\$420,000	\$875,000	\$875,000	\$2,996,500
						\$0
Mystic	\$595,000	\$15,000	\$925,000	\$925,000	\$250,000	\$2,710,000
Pump Stations	\$641,000	\$526,750	\$406,750	\$268,750	\$213,750	\$2,057,000
Engineering Costs	\$150,000	\$125,000	\$150,000	\$150,000	-	\$575,000
	\$3,814,500	\$1,055,750	\$2,089,750	\$2,423,750	\$1,423,750	\$10,807,500

**2019 Pawcatuck WWTF- CIP**
**COSTS**

Area	Asset	Age	Type / Disposition	Recommendation	YEAR 1	YEAR 2	YEAR 3	YEAR4	YEAR 5	Totals
Main Building										
	Roof	1998	Rubberized / Some Leakage	Consider Repairs	\$85,000					\$ 85,000
	A/C	1974	Original / Fair Condition	Consider Replacement	45,000					\$ 45,000
	Emergency Generator	2002	Diesel / 518 Hrs. / Good Condition							\$ -
	Transfer Switch	2014	Good Condition							\$ -
	Lighting	2008	Good Condition							\$ -
	Odor Control System	1997	Fair Condition / Structural Inegrity Unknown	Consider Upgrade						\$ -
	Septic Receiving Area	1974	Poor Condition / No Screening or Flow Meter	Consider Upgrade						\$ -
	Sludge Loading Area	1974	Good Condition / No Flow Meter	Consider Upgrade						\$ -
	Sludge Truck Pumps	1974	Pump Repairs Often	Consider New Pump on Hand	\$30,000					\$ 30,000
	Sludge Feed Pumps	1974	Pump Repairs Often	Consider New Pump on Hand	\$45,000					\$ 45,000
	Sludge Conditioner	1974	Original / Fair Condition	Consider Upgrading	\$75,000					\$ 75,000
	Rotating Drum Thickener	1974	Original / Fair Condition	Consider Upgrading	\$75,000					\$ 75,000
	RAS Pumps	1974	Original / Fair Condition	Consider Upgrading	\$90,000					\$ 90,000
	WAS Pumps	1974	Original / Fair Condition	Consider Upgrading	\$90,000					\$ 90,000
	Blowers	2013	Good Condition	Consider New Neuros for 3rd position						\$ -
	Service Water System	1974	Original / Very Poor Condition	Consider Replacement Skid System			\$125,000			\$ 125,000
	Chlorine Service Water	1974	Original / Fair Condition / Leaks	Consider Upgrading	\$125,000					\$ 125,000
	Chlorine Tank Room	1997	Using UV / Remove Chloine Tank / Use 55 gal. drums	Consider Upgrading						\$ -
	SCADA	2019	New Condition							\$ -
Garage										\$ -
	Roof	1974	Tin/Original/Leaks/Gutters Falling / Poor Condition	Consider Replacement					\$85,000	\$ 85,000
Digesters										\$ -
	Roof	2013	Rubberized		\$85,000					\$ 85,000
	Boiler	1994	Oil Fired / Fair Condition / Serviced Annually	Consider Replacement						\$ -
	Stairwell	1974	Original / Degraded Condition	Close off/ Repair /Replace	\$12,000	engineering				\$ 12,000
Grounds										\$ -
	Pavement	1974	Original / Degraded Condition	Repair or resurface				\$50,000		\$ 50,000
	Fence / Gate	1974	Original / Fair Condition	Consider automated gate						\$ -
	In-Ground Oil Tank	1974	Original / Good Condition	Consider Above-Ground Con-Vault						\$ -
	Bio-Filter	2009	Media, Piping, Pump / Degraded Condition	Replace Media, Piping & Pump	\$75,000					\$ 75,000
	Hydrants	1974	Original / Poor Condition	Replace Piping & Select Hydrants			\$38,000			\$ 38,000
	Outside Lighting	1974	Original / Not Functional	Consider Replacement w/ LED Lights	\$27,000					\$ 27,000
	Chemical Out Building	2000	Unused / Residual Chemical in Containment System	Remove Tank & Containment System						\$ -
	Security Cameras	None	View Gate, Entrance, Lot, Sludge Loading, Septic Loading	Consider Installation	\$15,000					\$ 15,000
Vehicles										\$ -
	Jet Truck	2005	13,000 mi. / Truck- Good / Jet System- Fair	Consider Upgrade w/Camera or Vac						\$ -
	Camera Trailer			Camera Trailer - Line Inspection				\$125,000		\$ 125,000
	Vactor Trailer		for use in cleaning collection system	Purchase		\$80,000				\$ 80,000
Primary Area										\$ -
	Primary Tanks	1997	Chain, Rails, Flights has been Inspected 2019	Will need Infrastructure Replaced 10-15 yrs.	\$275,000					\$ 275,000
	Primary Drives	1997	1 new gearbox installed 2019							\$ -
	Primary Pumps	1997	Fair Condition	Consider Replacement						\$ -
	Scum Tank	1974	Fair Condition							\$ -
	Scum Pumps	1997	Poor Condition	Consider Replacement & Automation		\$45,000				\$ 45,000
	Scum Troughs	1974	Poor Condition	Consider Upgrade		\$35,000				\$ 35,000
Aeration Area										\$ -
	Aeration Tanks	1974	Need to be Inspected							\$ -

Area	Asset	Age	Type / Disposition	Recommendation	YEAR 1	YEAR 2	YEAR 3	YEAR4	YEAR 5	Totals
	Diffusers	2004	Need to be Inspected		\$35,000					\$ 35,000
	Valves	2004	Poor Condition	Consider Automated Valves	\$85,000					\$ 85,000
	D.O. Probes	2012	Good Condition	Consider Most Open Valve Theory (SCADA)						\$ -
	Nitrogen Probes	2012	Good Condition	Serviced Annually						\$ -
	Ammonia Probes		No Ammonia Probes	Consider Installation	\$17,000					\$ 17,000
										\$ -
Secondary Area										\$ -
	Secondary Tanks	1974	Inspected and Repaired 2019 /requires total replacement	clarifier rebuild - urgent	\$450,000					\$ 450,000
	Secondary Drives	1997	1 new gearbox installed 2019							\$ -
	Telescopic Valve	1974	Non-Functional	Consider Repair or Replacement				\$30,000		\$ 30,000
	Spray Bars	1997	Poor Condition	Consider Repair or Replacement			25,000			\$ 25,000
	Scum Tank	1974	Fair Condition							\$ -
	Scum Pumps	1997	Poor Condition	Consider Replacement & Automation	\$65,000					\$ 65,000
	Scum Troughs	1974	Repaired 2019	Will need Infrastructure Replaced 5-10 yrs.						\$ -
										\$ -
U-V Area										\$ -
	Building or Cover		No Building or Cover	Consider Building w/Gantry	\$30,000					\$ 30,000
	U-V Parts		Keep Replacement Parts On-Hand	\$10K Annually (\$30K Project Total)						\$ -
				Totals by Line	\$1,831,000	\$160,000	\$188,000	\$205,000	\$85,000	\$2,469,000



# 2019 Borough WWTF- CIP

## COSTS

Area	Asset	Age	Type / Disposition	Recommendation	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	Totals
Main Building	I&I Study and rehab				\$0	\$0	\$325,000	\$875,000	\$875,000	\$ 2,075,000
	Roof	1998	Rubberized / Some Leakage / Flashing Issue	Consider Repairs	\$30,000					\$ 30,000
	Boiler	1994	Oil Fired / Fair Condition / Serviced Annually	Consider Replacement	\$45,000					\$ 45,000
	MCC Room #2	1998	Fluid Leaks onto VFDs	Consider Repairs	\$12,000					\$ 12,000
	A/C	2016	Good Condition							\$ -
	Emergency Generator	1978	Diesel / 657 Hrs. / Good Condition							\$ -
	Transfer Switch	1974	Poor Condition	Consider Replacement		\$35,000				\$ 35,000
	Lighting	2008	Good Condition							\$ -
	Odor Control System	1999	Good Condition / Recently Inspected & Repaired							\$ -
	Sludge Loading Area	1979	Good Condition / No Flow Meter	Consider Upgrade						\$ -
	Sludge Feed Pumps	1974	Repair Often	Consider New Pump on Hand	\$35,000					\$ 35,000
	Rotating Drum Thickener	1974	Original / 1-Fair Condition / 1-Parted out	Consider Replacing one unit	\$75,000					\$ 75,000
	RAS Pumps	1974	Original / 1-Fair Condition / 2-Inoperable	Installing New Pump for Back-up	\$27,000					\$ 27,000
	WAS Pumps	1974	Original / Fair Condition	Consider Upgrading	\$50,000					\$ 50,000
	Blowers	2013	1-Good Condition / 1-Vibrating / 1- VFD Repair	Consider New Neuros for 3rd position	\$75,000					\$ 75,000
	Service Water System	1974	Original / Very Poor Condition	Consider Replacement Skid System	\$125,000					\$ 125,000
	Chlorine Service Water	1997	Original / Fair Condition / Leaks	Consider Upgrading	\$25,000					\$ 25,000
	Chlorine Tank Room	1997	Using UV / Remove Chloine Tank / Use 55 gal. drums	Consider Upgrading	\$25,000					\$ 25,000
	SCADA	2019	New Condition							\$ -
Grounds										\$ -
	Pavement	1974	Original / Degraded Condition in Back	Repair or resurface	\$15,000					\$ 15,000
	Fence / Gate	1974	Original / Fair Condition / Back Gate Damaged	Consider replacing back gate	\$5,000					\$ 5,000
	Above-Ground Oil Tank	1997	Good Condition							\$ -
	Bio-Filter	2009	Media, Piping, Pump, Sprayer / Degraded Condition	Replace Media, Piping, Sprayer & Pump	DONE AS PART OF TRANSMISSION LINE					\$ -
	Outside Lighting	1974	Original / Functional / Mercury Vapor	Consider Replacement w/ LED Lights	\$15,000					\$ 15,000
	Security Cameras	Some	View Gate, Enterance, Lot, Sludge Loading, Septic Loading	Consider Installation						\$ -
Influent Area										\$ -
	Infuent Valve	1974	Original / Will not move	Consider Repairs or Replacement		\$25,000				\$ 25,000
	Diminutor	2015	Diminutor / Fair Condition	Consider Spare On-Hand						\$ -
	Wet Well Door	1974	Very Poor Condition / Safety Issue	Replace Door	\$8,500					\$ 8,500
	Pumps	2005	Refurbished / Good Condition							\$ -
Primary Area										\$ -
	Primary Tanks	1997	1- Poor Condition / 1- Inoperable	To be done under transmission line project						\$ -
	Primary Drives	1997	Poor Condition				\$35,000			\$ 35,000
	Primary Pumps	1997	Fair Condition / Repairs On-Going	Consider Replacement						\$ -
	Scum Tank	1974	Fair Condition							\$ -
	Scum Pump	1997	Poor Condition / Vaghn Chopper Pump	Consider Repairs or Replacement		\$50,000				\$ 50,000
	Scum Troughs	1974	Poor Condition / Vaghn Chopper Pump	Consider Upgrade		\$50,000				\$ 50,000
Aeration Area										\$ -
	Aeration Tanks	1974	Need to be Inspected							\$ -
	Diffusers	1997	Need to be Inspected							\$ -
	Valves	1997	Very Poor Condition / Stems Rotted Off / Unusable	Consider Repairs or Replacement			\$60,000			\$ 60,000
	D.O. Probes	2005	Good Condition							\$ -
	Nitrogen Probes	2019	Good Condition							\$ -
	Ammonia Probes		No Ammonia Probes	Consider Installation						\$ -

Area	Asset	Age	Type / Disposition	Recommendation	YEAR 1	YEAR 2	YEAR 3	YEAR4	YEAR 5	Totals
Secondary Area										\$ -
										\$ -
	Secondary Tanks	1974	1-Inspected 2019 / 2- Unknown Condition	Will need Infrastructure Replaced		\$45,000				\$ 45,000
	Secondary Drives	1997	Fair Condition	Consider Replacement		\$24,000				\$ 24,000
	Sludge Tank	1974	Unknown Condition / Need Inspection							\$ -
U-V Area										\$ -
										\$ -
	Building or Cover		No Building or Cover	Consider Building w/Gantry	\$30,000					\$ 30,000
	Flood Pump	1979	Fair Condition	Consider Automation						\$ -
	Exit Valve	2015	Remove Valve / Demo Wall	Repair Flow Short-Circuit						\$ -
	U-V Parts		Keep Replacement Parts On-Hand	\$10K Annually (\$30K Project Total)						\$ -
				Totals by year	\$597,500	\$229,000	\$420,000	\$875,000	\$875,000	\$2,996,500
				Total						\$2,996,500



**2019 Mystic WWTF- CIP**
**COSTS**

Area	Asset	Age	Type / Disposition	Recommendation	YEAR 1	YEAR 2	YEAR 3	YEAR4	YEAR 5	Totals
Mystic Sewer Shed			I&I - Inflow Infiltration Study	actual rehab work	\$0	\$0	\$925,000	\$925,000	\$250,000	\$ 2,100,000
Main Building	Influent Pumps	1992	need replacement now	Study on-going presently/if grant funds unavail	300,000					\$ 300,000
	Roof	2015	Rubberized / Good Condition	replace	\$150,000					\$ 150,000
	Boiler	1994	Oil Fired / Refurbished 2015 / Good Condition	Service Tech to Assess in October						\$ -
	A/C	2015	Good Condition							\$ -
	Transfer Switch	2015	Good Condition							\$ -
	Lighting	2015	Good Condition							\$ -
	Sludge Loading Area	2015	Good Condition							\$ -
	Sludge Truck Pumps	2018	Boeger / 1-2017, 1 2019 / Good Condition							\$ -
	Sludge Feed Pumps	2015	Penn Valley / Good Condition							\$ -
	Unthickened Sludge Tank	2015	Aeration & Recirculation Available							\$ -
	Primary Pumps	2015	Penn Valley / Good Condition							\$ -
	Recirculation Pumps	2015	Wemco / Fair Condition / Seals Leak							\$ -
	Recirculation Blowers	2015	D&G / 1- Good Condition, 1- Under Repair							\$ -
	Rotating Drum Thickener	2015	Good Condition							\$ -
	Blowers	2013	Good Condition							\$ -
	Service Water System	2008	Stand Alone Skid System / Strainer Down / Poor Condition	Consider Replacement Skid System	\$50,000					\$ 50,000
	SCADA	2019	New Condition							\$ -
Bio-Mag Building										\$ -
	Roof	2015	Tin / Good Condition							\$ -
	Shear Mill	2015	Assembly Replaced- 2019 / Good Condition	Replacement Parts Needed						\$ -
	Magnetic Drums	2015	Good Condition							\$ -
	Magnetic Mixing Tank	2015	Good Condition							\$ -
	Magnetite Feed Tank	2015	Good Condition							\$ -
	Air Compressors	2015	Good Condition	Need Annual Service						\$ -
	WAS Holding Tank	2015	Good Condition							\$ -
	WAS Pumps	2015	1- 2015, 1- 2018 / Good Condition	Consider Spare On-Hand						\$ -
Grounds										\$ -
	Pavement	2015	Good Condition							\$ -
	Fence / Gate	2015	Good Condition							\$ -
	Emergency Generator	2015	Diesel / Self-Contained Building / Good Condition							\$ -
	Above-Ground Oil Tank	1997	Good Condition							\$ -
	Odor Control System	2015	1, 1997-Fair Condition / 1, 2015- Good Condition	Media Replaced Annually						\$ -
	Outside Lighting	2015	Good Condition							\$ -
	Sludge Holing Tank	2015	Concrete & Ricirculaion Piping /Good Condition							\$ -
	Security Cameras	None	View Gate, Entrance, Lot, Sludge Loading, Septic Loading	Consider Installation						\$ -
Influent Area										\$ -
	Diminuter	2015	Fair Condition	Consider Spare On-Hand	\$30,000					\$ 30,000
	Influent Pumps	1997	Fair Condition	Consider Rebuild or Replacement	\$35,000					\$ 35,000
	Diversion Pumps	1997	Rebuilt 2007- Poor Condition	Transmission Line Improvments						\$ -
	Influent Valve	2015	Good Condition							\$ -
Primary Area										\$ -
	Grit Removal & Screen	2015	Grease paddles Missing / Auger Repaired 2018- Fair Condition	Consider Spare Auger		\$15,000				\$ 15,000
	Primary Tanks	2015	Chain, Rails, Flights been Inspected 2019 / Good Condition							\$ -

Area	Asset	Age	Type / Disposition	Recommendation	YEAR 1	YEAR 2	YEAR 3	YEAR4	YEAR 5	Totals
	Primary Drives	2015	Good Condition							\$ -
	Scum Tank	2015	Good Condition							\$ -
	Scum Pumps	2015	Transfer Pump- Fair Condition / Pumps- Good Condition							\$ -
	Scum Troughs	2015	Good Condition							\$ -
										\$ -
Aeration Area										\$ -
	Aeration Tanks	2015	Good Condition							\$ -
	Aeration Mixer	2015	6-Mixers / Good Condition	Consider Spare On-Hand						\$ -
	Internal Recycle Pumps	2015	Good condition							\$ -
	Diffusers	2015	Good Condition							\$ -
	Valves	2015	Good Condition							\$ -
	D.O. Probes	2015	Good Condition							\$ -
	Nitrogen Probes	2015	Good Condition							\$ -
	Ammonia Probes	2015	Not in Use							\$ -
										\$ -
Secondary Area										\$ -
	Secondary Tanks	2015	Good Condition							\$ -
	Secondary Drives	2015	Good Condition							\$ -
	RAS Pumps	2015	Good Condition	Consider Spare On-Hand						\$ -
	Spray Bars	2015	Good Condition							\$ -
	Scum Troughs	2015	Good Condition							\$ -
										\$ -
U-V Area										\$ -
	Building or Cover		No Building or Cover	Consider Building w/Gantry	\$30,000					\$ 30,000
	Flood Pump	1979	Fair Condition	Consider Automation						\$ -
	U-V Parts		Keep Replacement Parts On-Hand	\$10K Annually (\$30K Project Total)						\$ -
Totals by column					\$595,000	\$15,000	\$925,000	\$925,000	\$250,000	\$2,710,000
total										\$2,710,000

## Pump Station CIP Year

## COSTS

Station	YEAR 1	YEAR 2	YEAR 3	YEAR4	YEAR 5	Totals
Diving Street	\$45,000					\$45,000
River Road PS#3	225,000					225,000
Extrusion Drive	88,000					88,000
Spellman Drive PS#2	108,000					108,000
Maritime PS	175,000					175,000
White Rock PS			108,000			108,000
Mechanic Street PS#1		58,000				58,000
Walcott Ave.		78,000				78,000
Boulder		78,000				78,000
Quarry Path		98,000				98,000
Pawtucket Ave.			55,000			55,000
Shawondassee PS				45,000		45,000
Hewitt Rd PS		56,000				56,000
Cutter Dr. PS					55,000	55,000
Lindberg Rd PS				55,000		55,000
North Mystic PS				55,000		55,000
By-pass Pump			85,000			85,000
By-pass valves for each station		113,750	113,750	113,750	113,750	455,000
Replacement Diminutors		45,000	45,000		45,000	135,000
<b>Pump Station Totals per Year</b>	<b>641,000</b>	<b>526,750</b>	<b>406,750</b>	<b>268,750</b>	<b>213,750</b>	<b>2,057,000</b>