

**WPCA BOND REQUEST**

**SUMMARY FOR ALL 3 PLANTS AND PUMP STATIONS**

	YEAR 1	YEAR 2	YEAR 3	YEAR4	YEAR 5	Totals
Pawcatuck Treatment Facility	\$1,831,000	\$160,000	\$188,000	\$205,000	\$85,000	\$2,469,000
Borough Treatment facility	\$597,500	\$229,000	\$95,000	\$325,000	\$300,000	\$1,546,500
Mystic Treatment Facility	\$595,000	\$15,000	\$925,000	\$552,500	\$250,000	\$2,337,500
Pump Stations	\$596,000	\$526,750	\$581,750	\$433,750	\$213,750	\$2,352,000
Engineering Costs	\$150,000	\$125,000	\$150,000	\$150,000	\$0	\$575,000
Facility Report Upgrade - original plan in 2007			\$360,000	\$360,000		\$720,000
recommended review and update every 10 years						
	\$3,769,500	\$1,055,750	\$2,299,750	\$2,026,250	\$848,750	\$10,000,000

# Pump Station CIP Year

## COSTS

Station	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	Totals
Diving Street	\$0					\$0
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
Shawondasssee 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
replacement of camera/letter trailer mounted vac			175,000			175,000
Pump Station Totals per Year	596,000	526,750	581,750	433,750	213,750	2,352,000

Project was completed with remaining 2010 bond proceeds

# 2020 Pawcatuck WWTF- CIP

## COSTS

Area	Asset	Age	Type / Disposition	Recommendation	YEAR 1	YEAR 2	YEAR 3	YEAR4	YEAR 5
Main Building	Roof	1998	Rubberized / Some Leakage	Consider Repairs	\$85,000				
	A/C	1974	Original / Fair Condition	Consider Replacement	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 Integrity 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	\$30,000				
	Sludge Truck Pumps	1974	Pump Repairs Often	Consider New Pump on Hand	\$45,000				
	Sludge Feed Pumps	1974	Pump Repairs Often	Consider New Pump on Hand	\$75,000				
	Sludge Conditioner	1974	Original / Fair Condition	Consider Upgrading	\$75,000				
	Retating Drum Thickener	1974	Original / Fair Condition	Consider Upgrading	\$90,000				
	RAS Pumps	1974	Original / Fair Condition	Consider Upgrading	\$90,000				
	WAS Pumps	1974	Original / Fair Condition	Consider Upgrading	\$90,000				
	Blowers	Blowers	2013	Good Condition	Consider New Neuros for 3rd position				
Service Water System		1974	Original / Very Poor Condition	Consider Replacement Skid System			\$125,000		
Chlorine Service Water		1974	Original / Fair Condition / Leaks	Consider Upgrading	\$125,000				
Chlorine Tank Room		1997	Using UV / Remove Chlorine 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
Digesters									
	Roof	2013	Rubberized		\$85,000				
	Boiler	1994	Oil Fired / Fair Condition / Serviced Annually	Consider Replacement					
	Stairwell	1974	Original / Degraded Condition	Close off/ Repair / Replace	\$12,000	engineering			
Grounds									
	Pavement	1974	Original / Degraded Condition	Repair or resurface				\$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				
	Hydrants	1974	Original / Poor Condition	Replace Piping & Select Hydrants	\$27,000		\$38,000		
	Outside Lighting	1974	Original / Not Functional	Consider Replacement w/ LED Lights					
	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				
Vehicles									
	Jet Truck	2005	13,000 mi. / Truck- Good / Jet System- Fair	Consider Upgrade w/Camera or Vac				\$125,000	
	Camera Trailer			Camera Trailer - Line Inspection		\$80,000			
	Vactor Trailer		for use in cleaning collection system	Purchase					
Primary Area									
	Primary Tanks	1997	Chain, Rails, Flights has been Inspected 2019	Will need Infrastructure Replaced 10-15 yrs.	\$275,000				
	Primary Drives	1997	1 new gearbox installed 2019						
	Primary Pumps	1997	Fair Condition	Consider Replacement					
	Scum Tank	1974	Fair Condition						





2020 Mystic WWTF- CIP

COSTS

Area	Asset	Age	Type / Disposition	Recommendation	YEARS				
					YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5
Mystic Sewer Shed			I&I - Inflow Infiltration Study	actual rehab work	\$0	\$0	\$925,000	\$552,500	\$250,000
Main Building	Influent Pumps	1992	need replacement now	Study on-going presently/If grant funds unavailable	300,000				
	Roof	2015	Rubberized / Good Condition	replace	\$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						
	Rotating Drum Thickener	2015	D&G / 1- Good Condition, 1- Under Repair						
	Blowers	2013	Good Condition						
	Service Water System	2008	Stand Alone Skid System / Strainer Down / Poor Condition	Consider Replacement Skid System	\$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							
Magnetic 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 Holding Tank	2015	Concrete & Ricirculation 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					
Influent Pumps	1997	Fair Condition	Consider Rebuild or Replacement	\$35,000					
Diversion Pumps	1997	Rebuilt 2007- Poor Condition	Transmission Line Improvements						
Influent Valve	2015	Good Condition							



Primary Area										
	Grit Removal & Screen	2015	Grease paddles Missing / Auger Repaired 2018- Fair Condition	Consider Spare Auger						
	Primary Tanks	2015	Chain, Rails, Flights been Inspected 2019 / Good Condition							
	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					
	Flood Pump	1979	Fair Condition	Consider Automation						
	U-V Parts		Keep Replacement Parts On-Hand	Totals by column	\$10K Annually (\$30K Project Total)	\$595,000	\$15,000	\$925,000	\$552,500	\$250,000
				total		\$595,000	\$15,000	\$925,000	\$552,500	\$2,337,500

2020 Borough WWTF- CIP

COSTS

Totals

Area	Asset	Age	Type / Disposition	Recommendation	YEAR 1 YEAR 2 YEAR 3 YEAR 4 YEAR 5				
Main Building	I&I Study		Phase one and two I&I study/ possible grant funding of 55%		\$0	\$0	\$0	\$325,000	\$300,000
	Roof	1998	Rubberized / Some Leakage / Flashing Issue	Consider Repairs	\$30,000				
	Boiler	1994	Oil Fired / Fair Condition / Serviced Annually	Consider Replacement	\$45,000				
	MCC Room #2	1998	Fluid Leaks onto VFDs	Consider Repairs	\$12,000				
	A/C	2016	Good Condition						
	Emergency Generator	1978	Diesel / 657 Hrs. / Good Condition						
	<b>Transfer Switch</b>	<b>1974</b>	<b>Poor Condition</b>	<b>Consider Replacement</b>		<b>\$35,000</b>			
	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				
	Rotating Drum Thickener	1974	Original / 1-Fair Condition / 1-Parted out	Consider Replacing one unit	\$75,000				
	RAS Pumps	1974	Original / 1-Fair Condition / 2-Inoperable	Installing New Pump for Back-up	\$27,000				
	WAS Pumps	1974	Original / Fair Condition	Consider Upgrading	\$50,000				
	Blowers	2013	1-Good Condition / 1-Vibrating / 1-VFD Repair	Consider New Neuros for 3rd position	\$75,000				
Service Water System	<b>1974</b>	<b>Original / Very Poor Condition</b>	<b>Consider Replacement Skid System</b>	<b>\$125,000</b>					
Chlorine Service Water	1997	Original / Fair Condition / Leaks	Consider Upgrading	\$25,000					
Chlorine Tank Room	1997	Using UV / Remove Chlorine Tank / Use 55 gal. drums	Consider Upgrading	\$25,000					
SCADA	2019	New Condition							
Grounds	Pavement	1974	Original / Degraded Condition in Back	Repair or resurface	\$15,000				
	Fence / Gate	1974	Original / Fair Condition / Back Gate Damaged	Consider replacing back gate	\$5,000				
	Above-Ground Oil Tank	1997	Good Condition						
	Bio-Filter	<b>2009</b>	<b>Media, Piping, Pump, Sprayer / Degraded Condition</b>	<b>Replace Media, Piping, Sprayer &amp; Pump</b>	<b>DONE AS PART OF TRANSMISSION LINE</b>	<b>\$15,000</b>			
Influent Area	Outside Lighting	1974	Original / Functional / Mercury Vapor	Consider Replacement w/ LED Lights					
	Security Cameras	Some	View Gate, Entrance, Lot, Sludge Loading, Septic Loading	Consider Installation					
	Influent Valve	1974	Original / Will not move	Consider Repairs or Replacement		<b>\$25,000</b>			
	Diminutor	2015	Diminutor / Fair Condition	Consider Spare On-Hand					
Primary Area	Wet Well Door	1974	Very Poor Condition / Safety Issue	Replace Door	\$8,500				
	Pumps	2005	Refurbished / Good Condition						
	Primary Tanks	1997	1-Poor Condition / 1-Inoperable	To be done under transmission line project					
	Primary Drives	1997	Poor Condition	Consider Replacement			<b>\$35,000</b>		
Aeration Area	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		<b>\$50,000</b>			
	Scum Troughs	1974	Poor Condition / Vaghn Chopper Pump	Consider Upgrade		<b>\$50,000</b>			
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			<b>\$60,000</b>		

	D.O. Probes	2005	Good Condition						
	Nitrogen Probes	2019	Good Condition						
	Ammonia Probes		No Ammonia Probes	Consider Installation					
	Secondary Tanks	1974	1-Inspected 2019 / 2-Unknown Condition	Will need Infrastructure Replaced		\$45,000			
	Secondary Drives	1997	Fair Condition	Consider Replacement		\$24,000			
	Sludge Tank	1974	Unknown Condition / Need Inspection						
	<b>Building or Cover</b>		<b>No Building or Cover</b>	<b>Consider Building w/Gantry</b>		<b>\$30,000</b>			
	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	\$95,000	\$325,000
				Total					\$300,000
									\$1,546,500

U-V Area

Secondary Area