

**Village of Mantua Water Identified Needs**  
**From PCWR Aug. 25, 2018 Report**  
**Updated Village 2020 Debt and Estimated Budget Numbers Adjusted**

No.	Identified Need	Budget	Budget Adjustment for Year 2020 (1.455% Inc.)	2020 Budget	Budget Adjustment	Adjusted Budget	Notes
<b>Water Identified Needs</b>							
1	Distribution System Water Storage Reservoir Roof	\$450,000	\$6,548	\$456,548	(\$237,000)	\$249,384	OPWC Grant Rcvd, Adj to JA Email 12/9/20
2	Replace Mercury Switch Level Controls in Clearwell	\$20,000	\$291	\$20,291		\$20,291	
3	Upgrade SCADA System (\$80k Incl. in #1)	\$40,000	\$582	\$40,582	(\$40,582)	\$0	
4	Restore Well Pump #1 to operate automatic	\$3,000	\$44	\$3,044		\$3,044	
5	Plant Dehumidifier	\$20,000	\$291	\$20,291	(\$20,291)	\$0	Removed awaiting confirmation on operation
6	Distribution System Replacement Projects	\$3,500,000	\$50,925	\$3,550,925		\$3,550,925	
7	Rebuild/replace HS #1 pump and motor	\$35,000	\$509	\$35,509		\$35,509	
8	Rebuild/replace HS #2 pump and motor	\$35,000	\$509	\$35,509		\$35,509	
9	Rebuild/replace HS #3 pump and motor	\$35,000	\$509	\$35,509		\$35,509	
10	Purchase a second pump for EQ tank	\$8,000	\$116	\$8,116		\$8,116	
11	Replace "likely" lead service laterals (\$1,505,000)	\$1,505,000	\$0	\$1,505,000	(\$1,505,000)	\$0	Actual Cost - Per Discussion 8/15/19 See Minutes
12	Customer Meter Upgrade Project	\$220,000	\$3,201	\$223,201		\$223,201	
13	Repace three (3) HS Pump Discharge Valves	\$48,000	\$698	\$48,698		\$48,698	
14	Projected Equipment Life Cycle Replacements	\$622,214	\$9,053	\$631,267		\$631,267	Unused Budget Expires 5 years Agmt. Eff. Date
15	Emergency Water Interconnect with PCWR Water System	\$1,247,879	\$18,157	\$1,266,036	(\$633,018)	\$633,018	Full Estimated Cost \$2,532,071 w\ Mantua @ 25%
16	Clean Well #1 and rebuild/replace pump	\$50,000	\$728	\$50,728		\$50,728	
17	Clean Well #2 and rebuild/replace pump	\$50,000	\$728	\$50,728		\$50,728	
18	Clean Well #3 and rebuild/replace pump	\$50,000	\$728	\$50,728		\$50,728	
19	Develop a Wellhead Protection Program	\$8,000	\$116	\$8,116		\$8,116	
20	Convert to liquid Chlorine	\$60,000	\$873	\$60,873		\$60,873	
21	Loop Water Distribution System	\$1,137,500	\$16,551	\$1,154,051		\$1,154,051	
	Total Identified Water Needs:	\$9,144,593	\$111,156	\$9,255,749	(\$2,435,891)	\$6,849,695	
<b>Current Water Debt</b>							
	2006 - OWDA Loan 3945 , Franklin Main Reservoir Loop	\$120,378	\$0	\$120,378		\$120,378	Adj to JA Email 12/9/20
	2018 - OPWC Kiab CG33S - Water & Sewer Plt. Upgd.	\$11,166	\$0	\$11,166		\$11,166	50% Sewer & 50% Water, Adj to JA Email 12/9/20
	Total Water Debt:	\$22,331	\$0	\$131,544	\$0	\$131,544	Adj to JA Email 12/9/20
	<b>Current Water Needs &amp; Debt:</b>	<b>\$9,166,924</b>	<b>\$111,156</b>	<b>\$9,387,293</b>	<b>(\$2,435,891)</b>	<b>\$6,981,239</b>	

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<b>Sewer Identified Needs</b>							
1	Oxidation Ditch - Clean the #2 Oxidation Ditch	\$25,000	\$364	\$25,364		\$25,364	
2	Influent Wet Well Cleaned	\$1,800	\$26	\$1,826	(\$913)	\$913	Second cleaning pending
3	Repair or Replace scum pit sump pump (5 HP)	\$4,000	\$58	\$4,058		\$4,058	
4	Clarifiers - Repair Broken valves between the Clarifiers	\$20,000	\$291	\$20,291		\$20,291	
5	SCADA - Upgrade WWTP and Pump Station SCADA System	\$60,000	\$873	\$60,873		\$60,873	
6	Raw and Effluent Monitoring - Replace Meters/Probes	\$14,000	\$204	\$14,204		\$14,204	
7	Pump Building - Replace HVAC and insulate building	\$12,000	\$175	\$12,175		\$12,175	
8	Mud Valves (4) - Replace corroded stems	\$6,000	\$87	\$6,087		\$6,087	
9	Replace Automatic Samplers (2)	\$15,000	\$218	\$15,218	(\$15,218)	\$0	Work Completed
10	RAS Pumps - Replace VFDs on RAS pumps	\$3,000	\$44	\$3,044		\$3,044	
11	Flow Meters - Calibrate	\$12,000	\$175	\$12,175		\$12,175	
12	Electrical Outlets - Replace with GFI outlets	\$1,000	\$15	\$1,015		\$1,015	
13	Back Flow Devices - Conduct Study and replace/repair	\$100,000	\$1,455	\$101,455		\$101,455	
14	Influent Screening - Install an automatic fine screening device	\$120,000	\$1,746	\$121,746		\$121,746	
15	Install new "chopper" pumps at the North River PS	\$50,000	\$728	\$50,728		\$50,728	
16	Aerobic Digester - Drain, clean, replace diffusers	\$7,000	\$102	\$7,102		\$7,102	
17	Grit Removal Bldg - Upgrade interior heater unit	\$5,000	\$73	\$5,073		\$5,073	
18	Inventory Projected Failures for 2019	\$324,650	\$4,724	\$329,374		\$329,374	Unused Budget Expires 5 years Agmt. Eff. Date
19	Clarifiers - Construct walkway around each	\$46,000	\$669	\$46,669		\$46,669	
20	Clarifiers - Improve skimmer system	\$200,000	\$2,910	\$202,910		\$202,910	
21	Grit Removal-Enclose exterior to prevent freezing	\$72,500	\$1,055	\$73,555		\$73,555	
22	Blowers - Provide a safe method for blower removal	\$40,000	\$582	\$40,582		\$40,582	
23	WAS piping - Install heat tape and insulation	\$2,700	\$39	\$2,739		\$2,739	
24	Backup Power - Conver all equipment to automatic restart	\$10,000	\$146	\$10,146		\$10,146	
25	Blowers - install VFDs on the blower motors	\$25,000	\$364	\$25,364		\$25,364	
26	Sludge Disposal - Research most economical method	\$8,000	\$116	\$8,116		\$8,116	
27	Repair and Clean debris from Preimeter Fence	\$17,000	\$247	\$17,247		\$17,247	
28	Sludge Holding Tanks - Repair or Remove	\$520,000	\$7,566	\$527,566		\$527,566	
29	I/I Collection System Repairs	\$1,660,000	\$24,153	\$1,684,153		\$1,684,153	
30	Bulk Chemical Storage- Construct building Addition	\$112,500	\$1,637	\$114,137		\$114,137	
31	Lab Building - Enlarge for addition space	\$25,000	\$364	\$25,364		\$25,364	
32	Workshop - Provide a work shop/area	\$432,000	\$6,286	\$438,286		\$438,286	
	<b>Total Identified Sewer Needs:</b>	<b>\$3,951,150</b>	<b>\$57,489</b>	<b>\$4,008,639</b>	<b>(\$16,131)</b>	<b>\$3,992,508</b>	
<b>Current Sewer Debt</b>							
	2003 - OWDA Loan 3413, New WWTP	\$608,161	\$0	\$608,161		\$608,161	Adj to JA Email 12/9/20
	2005 - OPWC Loan CG36D , WWTP Expansion	\$33,750	\$0	\$33,750		\$33,750	Adj to JA Email 12/9/20
	2018 - OPWC Kiab CG33S - Water & Sewer Plt. Upgd.	\$11,166	\$0	\$11,166		\$11,166	50% Sewer & 50% Water, Adj to JA Email 12/9/20
	<b>Total Sewer Debt:</b>	<b>\$653,077</b>	<b>\$0</b>	<b>\$653,077</b>	<b>\$0</b>	<b>\$653,077</b>	
	<b>Current Sewer Needs &amp; Debt:</b>	<b>\$4,604,227</b>	<b>\$57,489</b>	<b>\$4,661,716</b>	<b>(\$16,131)</b>	<b>\$4,645,585</b>	