

City of Pateros, Public Works & Parks

September 2019 – Report to City Council

By City Administrator/
Public Works Supervisor
Jord L. Wilson, MLA



Public Works Team
Mike Lambert – Wastewater
Doug Kirk – Water
Ryan Sisler - Parks

Administrative

- Following the Federal Audit, I spent a fair amount of time updating our financial policies. The proposed policies more closely match how we operate, which the auditors want to see. The policies also reflect the recommendations of MRSC, especially on purchasing and contracts.
- It is budget season, and I have been working on the 2020 budget. The focus for next year, is to increase productivity through increased efficiencies and move towards preventative maintenance instead of responsive repairs. This has been an ongoing process, but the difficulties of 2019 have further highlighted the need. In 2019, responsive repairs drove much of our schedule and dictated much of our maintenance and repair budget.


PUBLIC WORKS

Streets & Equipment

- The crew and I have spent time this past month updating our snow removal strategy. We are proposing to add an anti-icing agent to our snow removal regimen. The hope is that this will save us the need for a new loader or large plow. We will use our existing dump truck with its plow and sanding unit. We purchased the dump truck solely to be used as a dump truck and to help us remove snow out of the city. However, the dump truck came with a large plow attachment and a stainless-steel sanding unit with tanks for anti-icing. We plan to use the unit this year and to test a new strategy in snow removal. In winter of 2017-18 we removed over 100 loads of snow out of the city. The anti-icing procedure is being used in Spokane, Cashmere, and Wenatchee, where there is little room to pile up excessive snow. Our snow along Warren Avenue fills up driveways, and makes it difficult for people to get out. Our goal is to bring a little relief for residents and for the public works crew.
- I have updated the Snow Removal Policy and Snow Removal Plan for 2020. Updates, and public information will be included in the September utility billing.
- The crew worked on striping streets, and completed the crosswalks, goat tracks, and the school area.
- Repairs to the water line break on Warren Street have been made. The pavement will not be repaired until 2020 construction season.



PARKS

 Weeds have been a problem this year and we have not satisfactorily kept up. Ryan spent much of his time repairing water breaks in facilities early this spring, and then moved into irrigation repairs due to the increase water pressures. On top of that, we had to remodel irrigation lines due to the retirement of the old pump station and reservoirs. Craig, spent much of his time this summer weed-eating. Between the unexpected projects and the additional project due to the new water system, we were unable to keep up with the weed spraying.

Traditionally we have used a simple ranch-style pesticide program. The old system is very inefficient with our time. I met with Wilbur Ellis, and we have been working to develop a pesticides/herbicide program that better fits our parks and labor force. The goals of the program:

1. Reduce weeds and pests with minimal chemical applications.
2. We want to be very sensitive to our environment, our water, our wildlife, and those that use our parks.
3. Reduce labor intensive practices, weed-eating and hand pulling
4. When possible herbicide applications to early spring and late fall when the crew has more available time.

City of Pateros Park & Sewer Fees									
	Ives Landing Park			Ives Landing Dump Station (Sewer Dept)			Memorial Park		
	2017	2018	2019	2017	2018	2019	2017	2018	2019
January	\$ -	\$ -		\$ -	\$ -		\$ -	\$ -	\$ -
February	\$ -	\$ -		\$ -	\$ 10.00		\$ -	\$ 25.00	\$ -
March	\$ -	\$ -		\$ -	\$ -		\$ -	\$ -	\$ -
April	\$ -	\$ -	\$ 85.00	\$ 48.16	\$ 40.00	\$ 21.00	\$ 97.00	\$ 25.00	\$ 75.00
May	\$ -	\$ 175.00	\$ 70.00	\$ 95.85	\$ 85.00		\$ 136.50	\$ 157.00	\$ 15.00
June	\$ -	\$ 894.10	\$ 35.00	\$ 228.00	\$ 240.00	\$ 230.75	\$ 423.00	\$ 333.75	\$ -
July	\$ -	\$ 2,296.38	\$ 820.00	\$ 276.00	\$ 285.00	\$ 280.92	\$ 279.00	\$ 570.50	\$ 380.00
August	\$ -	\$ 2,400.00	\$ 740.25	\$ 305.00	\$ 112.00	\$ 155.00	\$ 1,195.24	\$ 1,276.00	\$ -
September	\$ 200.00	\$ 600.00		\$ 97.00	\$ 143.00		\$ 210.35	\$ 214.00	
October	\$ -	\$ 280.00		\$ 145.50	\$ 164.00		\$ 153.00	\$ 180.00	
November	\$ -	\$ 7.00		\$ 104.75	\$ 53.00		\$ 6.00	\$ 30.00	
December	\$ -	\$ -		\$ -	\$ 83.00		\$ -	\$ -	
Total	\$ 200.00	\$ 6,652.48	\$ 1,750.25	\$ 1,300.26	\$ 1,215.00	\$ 687.67	\$ 2,500.09	\$ 2,811.25	\$ 470.00
7 mo. Total	\$ -	\$ 5,765.48	\$ 1,750.25	\$ 953.01	\$ 772.00	\$ 687.67	\$ 2,130.74	\$ 2,387.25	\$ 470.00

WATER DEPARTMENT

Chlorine levels in our water system have stabilized, and we have been able to keep them in the lower half of our desired range. Manganese levels remain very, very low. We are still receiving complaints of manganese in the lines, but they are going down.

City of Pateros Water Department

System ID 66450 C **Total Service Connections** 278
Reservoir Capacity 565,000 gallons **Wells** 2

2019 Water Produced in Gallons							
	2018	2019	% in Change		2018	2019	% in Change
January	1,797,800	2,121,438	18%	July	17,454,000	18,968,280	9%
February	1,552,000	2,056,813	33%	August	14,152,900	16,600,547	17%
March	1,778,900	2,260,796	27%	September	10,192,700		
April	2,963,400	4,503,629	52%	October	6,663,600		
May	9,611,300	12,892,999	34%	November	2,076,600		
June	13,457,700	16,082,186	20%	December	1,867,529		
Year to Date Total Gallons	2018 62,768,000	2019 75,486,688	% in Change 17%	<i>Chlorine Levels have been stabilizing and we have been able to keep them in the lower half of our desired range.</i>			
Water Quality Testing							
Coliform Test	<i>This is an indicator test for total coliform (good and bad). The presence of coliform in a sample indicates the need for further testing</i>						
8/29/2019	1 sample tested		Coliform absent				
Chlorine Monitoring	<i>A target residual of 0.3-0.5 (min. 0.2) used to control microbes *As part of routine monitoring, the chlorine input rate is immediately increased for all chlorine tests results below 0.2 to meet the DOH minimum of 0.2</i>						
8/1/2019-8/30/2019	Daily samples Mon-Fri		Chlorine Levels greater than .02 at furthest point in system. Target levels 0.05 - 1.50 (4.0 State MCL)				Chlorine Ranged 0.12*-0.7
2019 New Water Services							
20 Brownlee Lane				235 Beach St.			

Pump Station #4 Update:

- The Landscape is to be complete the week of September 16th. The contractor has asked for an additional 26 days to complete the structure. There has been numerous change orders and delays that have been out of the contractor's control. The extension is a reasonable request.



*(Above) Rock from Starr Road & Driftwood from Azwell
(Below) Biosolids at Boulder Park*



*(Above) Setting grades
(Below) Setting timbers for stage*



SEWER DEPARTMENT

City of Pateros Sewer Department							
Permitee: Pateros POTW	Permit #: WA0020559		Operator: Mike Lambert				
2019 Wastewater Processed in Gallons							
	2018	2019	% in Change		2018	2019	% in Change
January	1,390,000	1,267,300	-8.8%	July	1,763,500	1,580,000	-10.4%
February	1,615,500	1,136,000	-29.7%	August	1,499,300	1,415,100	-5.6%
March	1,451,500	1,284,500	-11.5%	September	1,505,000		
April	1,566,000	1,741,500	11.2%	October	1,545,500		
May	1,496,800	1,427,400	-4.6%	November	1,179,200		
June	1,596,800	1,448,900	-9.3%	December	1,164,200		
Year To Date Totals Gallons Processed	2018		2019		% in Change		
	12,379,400		11,300,700		-8.7%		
Wastewater Effluent Monitoring							
Total BOD 5-day	<i>Organic Loading Rates (Permit Range ≥ 85%)</i>						
Weekly Test	4 - Tests		98.2% removal				
TSS	<i>Total Suspended Solids, non organics (Permit Range ≥ 85%)</i>						
Weekly Test	4-tests		94.6% removal				
pH	<i>(Daily min/max permit range equal/between pH6 and pH9)</i>						
Weekly minimum	Mon-Fri		5				
Weekly Maximum	Mon-Fri		7.5				
Fecal Coliform Bacteria	<i>(Permit Range Weekly ≤ 100; Monthly ≤ 200)</i>						
Weekly geometric mean	4-tests		3.78				
Monthly geometric mean	4-Tests		3.78				
Dissolved Oxygen	<i>Daily – Report Only</i>						
Daily Test	Mon-Fri		6.8 Maximum				
Temperature	<i>Daily – Report Only</i>						
Daily Test	Mon-Fri		22.6 Degrees C Average				
Ammonia	<i>Monthly – Report Only</i>						
8/29/2019	1 sample		0.07				

August Notes:

*Overall flows are down.
Biosolids were hauled
(The first time we were
able to use Boulder Park
in Mansfield since 2012.)*

