

## Public Works Department 117 N Molalla Avenue PO Box 248 Molalla, Oregon 97038 Phone: (503) 829-6855

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March 1, 2021

Mike Pinney, PE, Sr. Environmental Engineer Oregon DEQ – Northwest Region 700 NE Multnomah St, Suite 600 Portland, OR 97232

#### **RE: 2020 ANNUAL INFLOW & INFILTRATION REPORT**

This report provides an annual summary of some of the more important I/I reduction actions the City of Molalla has taken for the 2020 calendar year, in accordance with City's Inflow and Infiltration Assessment and Reduction Plan and NPDES Permit No. 101514.

In 2020 the City replaced the entire sewer line on Patrol Street (1350 linear feet) and its 29 laterals to the Property Lines. The City also cleaned 9727 linear feet, replaced 9 failed sewer laterals in town, brought the number of Grouted Manholes to 105, and reduced I/I at the WWTP measurably again.

Please feel free to contact me (503) 759-0220 if you have any questions.

Regards,

Andy Peters
Operations Supervisor

Cc: Gerald Fisher, Public Works Director Dan Huff, City Manager

Project/Task	Description & Information					
Manhole	The City also completed phase 2 of its Manhole Grouting Program,					
Inspections and	bringing the observed manhole infiltration to the following condition:					
Grouting	Grouted (105) (See Map at the end of this report)					
	Major Infiltration (14) Minor Infiltration (4)					
System	The cycle of system assessment ended in 2017 with the City's Smoke					
Assessment	Testing, and the comprehensive Flow Poking assessment in 2018. Efforts					
	in 2020 centered on continuing to make repairs found by analyzing CCTV					
	results and actively digging up leaks, as described in the remainder of this					
	report.					
Sewer Line	Sewer CMOM Cleaning in 2020 was conducted as follows:					
Cleaning	MOH 11000. Broklers Covers and Dood End Mains (NIM) available					
	WO# 11989; Problem Sewers and Dead-End Mains (NW quadrant) COMPLETED 10/29/2020					
	• Industrial Way					
	Storey Dr					
	Andrian					
	Kalugin					
	The Bypass line at Lynn Ln					
	Toliver & Leroy					
	Trinity					
	Wedgewood					
	Kae Ct					
	• W. Heintz					
	Carol Ct     West Lane					
	<ul><li>West Lane</li><li>Ridings</li></ul>					
	• Prince					
	• Dixon					
Sewer Line Cleaning	Total: 4437LF					
	WO# 11690; Problem Sewers and Dead-End Mains (SE quadrant)					
	South of Molalla Ave, East of the Union Pacific RR Tracks.					
	COMPLETED 10/1/2020.					
	• E. 3 <sup>rd</sup>					
	Eckart, the Moose Lodge					
	<ul><li>Hood St</li><li>Hood Ct</li></ul>					
	• S. Cole					
	• E 8th					
	Mathias Ct					
	Total: 2045LF					
	WO# 11689; Problem Sewers and Dead-End Mains (SW quadrant)					
	South of Molalla Ave, West of the Union Pacific RR Tracks,					
	שנים של מינות היים אינים של היים של הי					

and South of the 15-inch concrete line that runs from Molalla Ave directly to the WWTP;

COMPLETED 10/1/2020

- Fountain Valley Center (off Industrial Way)
- Commercial -- Done

Total: 600LF

WO# 11480; Clean and maintain Problem Laterals - fall

Peterkin's downtown (low flows cause backups);

**COMPLETED 10/1/2020** 

Total: 395LF

WO# 11271; Problem Sewers and Dead-End Mains (NE quadrant) North of Molalla Ave, East of the Union Pacific RR Tracks. COMPLETED 9/1/2020

- Thunderbird
- Glory
- Bronco
- Miller
- Faurie
- E Christopher
- W Christopher
- Affaltor

Total: 2250LF

**Total Sewer Cleaning 2020: 9727 LF** 

#### CCTV

The City repaired 9 laterals identified:

# Inspections and Repairs

- 1. 824 Toliver
- 2. 416 Metzler
- 3. 191 Shirley
- 4. 318 S. Molalla Ave
- 5. 415 Hart St
- 6. 701 N Molalla Ave
- 7. 316 Berkely
- 8. 207 Francis
- 9. 115 Toliver

## I/I Budget

In Fiscal Year 2020-2021, the City budgeted a total of \$530,000 for infiltration and inflow repairs and to date has spent \$457,000, completing all scheduled repairs. The City is on track to expend all of the funds on repairs before the end of the fiscal year.

## I/I Projects

In 2020 the City replaced the entire sewer line on Patrol Street and all 29 customer laterals to the property lines.

The City also completed project repairs to the lines between BC\_A1\_2 and BC\_A1\_3 including manhole grouting and additional TV inspection, resulting significant reduciton in I/I as measured by pump hours at South Molalla Lift Station (over 30%). The City is currently considering whether the repairs made qualify as a completion of Phase 1 Project #6 in the 2018 WWFCSMP:

Dec-20						
South Molalla LS						
	Minutes	Gallons	Starts	Average Minutes/Start	Duty Cycle	Rainfall
Pump 1	4,915.00	388,285	1,471	3.34	11.00%	6.04
Pump 2	5,508.00	451,656	1,530	3.6	12.30%	
Both	0		0	-	0.00%	
Total	10,423.00	839,941.00	3,001.00			6.04
Jan-20						
South Molalla LS				Average		
	Minutes	Gallons	Starts	Minutes/Start	Duty Cycle	Rainfall
Pump 1	7,821.00	617,859	2,020	3.87	17.50%	5.99
Pump 2	7,381.00	605,242	2,028	3.64	16.50%	
Both	0		0	-	0.00%	
Total	15,202.00	1,223,101.00	4,048.00			5.99

The City is also able to present a graph of the moving average trendline of WWTP Influent VS Rainfall during a historical period. The City expects to see further improvements during 2021 from the Patrol Street Project, and Manhole grouting performed in 2020.



