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February 2, 2022

Carey Cholski
Permit Administrator
Washington State Dept. of Ecology
PO Box 47775
Olympia, WA 98504-7775

RE: 2021 Infiltration and Inflow Report
WA0023639

Dear Ms. Cholski:

Enclosed you will find the 2021 Infiltration and Inflow Report for the Salmon Creek Treatment Plant prepared by Clark Regional Wastewater District (District). This report is being submitted as required by the NPDES Permit No. WA0023639.

If you have any questions, please contact me at 360.993.8815 or by email at hhenderson@crwwd.com.

Sincerely,

Heath Henderson, P.E.
Digitally signed by Heath Henderson, P.E.
DN: C=US,
E=hhenderson@crwwd.com,
O=Clark Regional Wastewater District, OU=Engineering Director,
CN="Heath Henderson, P.E."
Date: 2022.02.03 07:20:26-08'00'

Heath Henderson, PE
Engineering Director

Enclosure

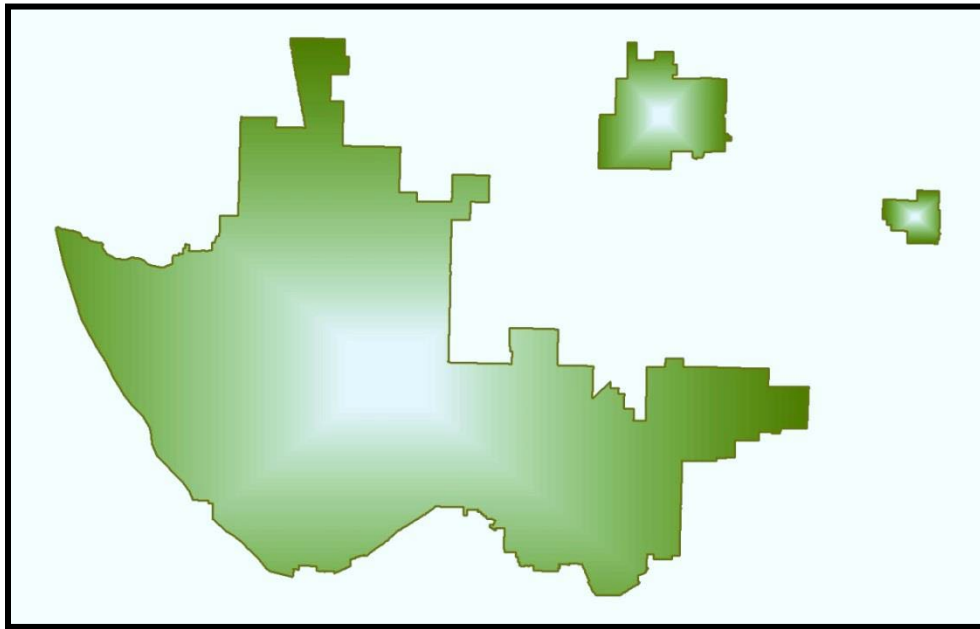
c: Steven Ogle, Water Quality Program Manager, Washington State Dept. of Ecology
Mark Herceg, Public Works Director, City of Battle Ground
John Peterson, General Manager, Clark Regional Wastewater District
Matt Jenkins, Wastewater Treatment Plant Operations Manager, Clark Regional Wastewater District
Robin Krause, Principal Engineer: Transmission and Treatment, Clark Regional Wastewater District
Rich Ludlow, Wastewater Operations Manager, Clark Regional Wastewater District
Kristen Thomas, Regulatory Compliance Manager, Clark Regional Wastewater District



2021

Clark Regional Wastewater District

Infiltration and Inflow Report For Salmon Creek Treatment Plant



February 14, 2022

In Compliance with the NPDES Waste Discharge Permit
No. WA-002363-9 Special Condition S4.E





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2021 Infiltration and Inflow Report

Overview

The Clark Regional Wastewater District (District) was formed in 1958. The District has always maintained a comprehensive construction specification, inspection and maintenance program to minimize infiltration and inflow (I/I) into the system. As a result, the system flow characteristics perform well below the non-excessive criteria as established in the EPA Infiltration/Inflow Analysis and Project Certification (Ecology publication 97-03).

Beginning in 2016, the District began conveying a portion of the flow generated in the City of Ridgefield service area to the Salmon Creek Treatment Plant. Currently, all flow tributary to the Pioneer Canyon Pump Station is conveyed through the Discovery Corridor Wastewater Transmission System and ultimately to the Salmon Creek Treatment Plant. The average daily flow from the Pioneer Canyon Pump Station is about 0.48 MGD (2,609 Equivalent Residential Units (ERUs)). The Ridgefield Treatment Plant processes the remaining flow generated in Ridgefield. The additional flow to Salmon Creek is incorporated into this report.

ANALYSIS

The District's average dry weather and wet weather I/I rates are well below excessive. Average dry weather flows greater than 120 gallons per capita per day (gpcd) indicate excessive infiltration. Infiltration occurs during periods of high seasonal groundwater and dry weather with little or no rainfall. The District's infiltration remains well below excessive at 72 gpcd. Average wet weather flows greater than 275 gpcd indicate excessive inflow. Inflow occurs during periods of wet weather with significant rainfall resulting in ponding and surface runoff. The District's inflow remains well below excessive at 75 gpcd.

For the purpose of this report, population calculations have been based on population equivalents. This method calculates a population based on the total number of ERUs multiplied by the planning assumption of people per ERU. This assumption is 2.43 people per ERU for the Salmon Creek Treatment Plant (CH2M HILL, 2004 SCTP Phase 4). The calculation for population equivalent includes commercial and industrial ERUs in addition to residents of the area. At the beginning of 2021, the District had approximately 41,076 ERU's with a population equivalent of roughly 99,815 in the Salmon Creek tributary area, which includes the City of Ridgefield, with 2,003 ERUs, or a population equivalent of about 6,339.

As shown in Appendix A, the District's 2021 I/I of 1.98 MGD represent a 80% increase compared to the 2003 base year. To better understand I/I trends in the system, the District reviews the average monthly flows and rainfall for the available

records between January 1997 and December 2021. That data shows that 2000, 2013 and 2019 represent the lowest I/I years on record. 2013 I/I was the same as 2019, with over 5-inches less rainfall in 2013.. The District's I/I averaged 1.56 over the past 25 years. Reviewing more recent years with similar rainfall patterns and flows such as 2018 (1.38 mgd I/I and 4.4 inches less rainfall), the 2021 I/I does not appear to be out of trend with historical performance. Also, the excessive inflow and infiltration calculations do not lead us to believe that the system is experiencing higher than normal I/I.

TABLE 1

1997-2021 I/I AND RAINFALL

Year	Min of Average Monthly Flow (MGD)	Max of Average Monthly Flow (MGD)	I / I	Annual Rainfall
1997	3.9	5.73	1.84	48.18
1998	4.27	5.48	1.22	45.73
1999	4.2	5.92	1.72	43.87
2000	4.41	5.23	0.82	32.89
2001	4.39	5.74	1.35	36.41
2002	4.34	5.53	1.19	34.01
2003	4.63	5.72	1.1	41.02
2004	4.77	5.94	1.17	35.21
2005	4.79	5.9	1.11	34.82
2006	4.92	7.04	2.12	42.96
2007	5.12	6.64	1.52	34.14
2008	5.13	6.48	1.35	28.79
2009	5.11	6.39	1.28	31.93
2010	5.24	6.39	1.75	42.07
2011	5.05	6.99	1.95	30.77
2012	5.19	7.19	2.00	41.65
2013	5.32	6.39	1.07	21.19
2014	5.34	6.84	1.82	32.17
2015	5.31	8.06	2.75	39.44
2016	5.54	7.27	1.73	48.14
2017	5.93	8.25	2.31	46.89
2018	5.86	7.24	1.38	30.65
2019	6.02	7.09	1.07	26.44
2020	6.35	7.67	1.32	30.31
2021	6.41	8.40	1.98	35.09
Average			1.56	36.59

Monitoring Program and Rehabilitation Projects

INTRODUCTION

The District places an emphasis on good design and inspection to minimize I/I into the system. However, as pipes age, a variety of methods for the monitoring and identification of I/I are necessary to use. This includes yearly review of pump station records, treatment plant flow reports, trunk line flow monitoring, smoke testing, visual inspection of manholes and closed-circuit television (CCTV) camera inspection. Through these efforts, the District is able to locate areas of concern for follow-up investigation and correction.

CROSS-CONNECTIONS

For issues on private property (i.e., stormwater cross connections, roof drains or broken laterals), the District contacts the homeowner and works with them to correct the situation. The District typically addresses issues that are within public right-of-way. All side sewer connections (between right-of-way and building envelope) are permitted and inspected by the District.

NEW CONSTRUCTION


The District addresses I/I by inspecting all new systems during construction, including all mainlines, pump stations, manholes and individual laterals. In addition, during plan review and field inspection, the District reviews the need for inflow dishes or watertight locking lids to control inflow. The District addresses infiltration by requiring manhole joints to be externally sealed in areas of high groundwater, vacuum testing of 50% of all new manholes and air testing of all new gravity mainlines.

FLOW MONITORING

The District monitors all pump stations as well as four (4) motor operated valves (MOV's). Daily and annual review of the pump run times and flow data help to identify the potential for I/I. In addition, the two satellite service areas (Meadow Glade and Hockinson) that are served by STEP systems have individual flow meters at their termination.

REHABILITATION

The District strives to inspect all gravity mains and trunk sewers with CCTV cameras a minimum of every eight years to assess condition, I/I and other related issues. Results help inform the District's Six-Year Capital Program. The six-year program includes an "I/I program" as well as a "Spot Repair" program component. Both programs provide for completion of specific projects targeting the reduction of I/I in the system. The District completed manhole grouting at 15 locations in



2016 and 18 locations in 2018, which has stopped an estimated 50 gallons per minute of I/I, or 72,000 gallons per day. The District also completed the NE 78th Street Trunk project in 2018, replacing old concrete pipe with PVC in an area of high ground water. The District completed two (2) cured-in-place pipe contracts in 2017, to stop infiltration and rehabilitate existing concrete pipes.

In 2021, the District completed the following projects in areas known to have I/I issues:

- Installed four (4) Mechanical Repair Bands, two (2) of which targeted specific I/I areas.
- NE 32nd Avenue Mainline Repair – Replaced 30-feet of gravity sewer in an area known to be below the groundwater elevation.
- 509 Horns Corner Lateral Repair – Emergency project that repaired damaged lateral that was in groundwater.

The District is planning a manhole grouting effort in 2021, as well as a mainline/lateral lining project41.02.



APPENDIX A

ANNUAL INFILTRATION/INFLOW (I/I) REPORT



Salmon Creek Wastewater Treatment Plant

ANNUAL INFILTRATION/INFLOW (I/I) REPORT

Reporting Year: From: 2019 To: 2021

Max month design flow: 11.48 MGD (District allocation beginning in 2009)
 Peak daily design flow: 15.31 MGD
 Design Population Equivalent: 86,989

Month	Average Monthly Flow (MGD)			Total Monthly Rainfall (inches)			Population Served			Additional Sewer Lines Added (feet)			
	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year		
	2019	2020	2021	2019	2020	2021	2019	2020	2021	2019	2020	2021	
January	6.61	7.65	8.30	3.40	7.10	6.56	92488	95820	100043	2718	8791	5937	
February	7.09	7.67	8.40	6.26	1.66	3.28	92700	96111	100256	4647	3682	5911	
March	6.51	6.62	7.25	1.26	2.30	1.39	92936	96265	100619	14391	14138	2228	
April	6.86	6.71	6.80	2.42	0.60	0.43	93222	96542	101270	7078	9706	5409	
May	6.31	6.72	6.65	1.20	1.87	1.60	93528	96586	101552	3397	1312	10488	
June	6.27	6.89	6.74	1.09	2.63	1.99	93760	97214	102069	15529	15728	3980	
July	6.08	6.37	6.43	0.44	0.04	0.00	93986	97458	102413	6087	2107	0	
August	6.02	6.35	6.41	0.51	0.31	0.03	94293	98011	102790	2913	0	4621	
September	6.41	6.42	6.74	1.51	1.27	3.30	94659	98302	103017	839	2432	2318	
October	6.25	6.38	6.89	1.78	1.52	4.43	95028	98884	103342	7794	12601	5460	
November	6.12	7.19	7.93	1.31	5.63	5.90	95308	99409	103842	4312	5907	13492	
December	6.65	7.35	8.25	5.26	5.38	6.18	95821	99815	104210	30118	13130	4015	
TOTAL	77.20	82.34	86.80	26.44	30.31	35.09				Total (feet)	99823	89534	63859
Low	6.02	6.35	6.41							Total (miles)	18.91	16.96	12.09
High	7.09	7.67	8.40										
Average	6.43	6.86	7.23										
I/I	1.07	1.32	1.98										

Base Year: 2003

Base Year I/I: 1.1 MGD

INFILTRATION/INFLOW SUMMARY

Year	I/I	% increase from base I/I	% of max mo. design flow
2019	1.07	-3	9
2020	1.32	20	11
2021	1.98	80	17

Comments: See report.



Heath H. Henderson, PE
 District Engineer





APPENDIX B

FLOW ANALYSIS DATA



Salmon Creek Wastewater Management System - Clark Regional Wastewater District

ANNUAL INFILTRATION/INFLOW REPORT 1/1/2021 to 12/31/2021

FLOW AND PRECIPITATION DATA

POPULATION AND SEWER LINE DATA

MONTH	Average Monthly Flow (MGD)						Total Monthly Precipitation (Inches)					
	Year						Year					
	2016	2017	2018	2019	2020	2021	2016	2017	2018	2019	2020	2021
January	7.27	7.20	7.24	6.61	7.65	8.30	9.68	4.12	6.44	3.40	7.10	6.56
February	6.89	8.19	6.83	7.09	7.67	8.40	5.13	8.22	3.40	6.26	1.66	3.28
March	7.07	8.25	6.75	6.51	6.62	7.25	6.04	8.83	2.27	1.26	2.30	1.39
April	6.11	7.40	6.80	6.86	6.71	6.80	1.56	4.57	3.26	2.42	0.60	0.43
May	5.93	6.86	6.29	6.31	6.72	6.65	1.13	1.86	0.15	1.20	1.87	1.60
June	5.74	6.47	6.04	6.27	6.89	6.74	1.80	1.35	0.70	1.09	2.63	1.99
July	5.58	5.97	5.86	6.08	6.37	6.43	0.44	0.00	0.04	0.44	0.04	0.00
August	5.54	5.93	5.89	6.02	6.35	6.41	0.22	0.00	0.07	0.51	0.31	0.03
September	5.54	6.04	6.00	6.41	6.42	6.74	1.32	2.25	1.40	1.51	1.27	3.30
October	6.23	6.18	6.03	6.25	6.38	6.89	9.58	3.36	4.11	1.78	1.52	4.43
November	6.67	6.90	6.12	6.12	7.19	7.93	6.75	8.90	2.83	1.31	5.63	5.90
December	6.99	6.79	6.67	6.65	7.35	8.25	4.49	3.43	5.98	5.26	5.38	6.18
Avg Flow / Total Rain	5.95	6.30	6.85	6.38	6.86	7.23	39.44	48.14	46.89	30.65	30.31	35.09
Low Month	5.31	5.54	5.93	5.86	6.35	6.41	0.25	0.22	0.00	0.04	0.04	0.00
High Month	8.06	7.27	8.25	7.24	7.67	8.40	17.94	9.68	8.90	6.44	7.10	6.56

MONTH	Population Served (Population Equivalent)		Sewer Lines Added (Feet)	
	Year	2021	Year	2021
	2021		2021	
January	100043		5937	
February	100256		5911	
March	100619		2228	
April	101270		5409	
May	101552		10488	
June	102069		3980	
July	102413		0	
August	102790		4621	
September	103017		2318	
October	103342		5460	
November	103842		13492	
December	104210		4015	
Present Equivalent	104210		Total (feet)	63859
			Total (miles)	12.09

Comments: Measured data presented in this report reflects the Clark Regional Wastewater District's capacity usage only. Battle Ground usage is reported separately.

Salmon Creek Wastewater Management System - Clark Regional Wastewater District

ANNUAL INFILTRATION/INFLOW REPORT

1/1/2021 to 12/31/2021

DETERMINATION OF NON EXCESSIVE INFILTRATION

EPA Infiltration Criteria 120 gpcd

District Infiltration 72 gpcd

Period	Flow	Rain	Population Equivalent
Mar 07	7.67	0.15	100619
Mar 08	7.37	0.05	100619
Mar 09	7.32	0.06	100619
Mar 10	7.16	0.06	100619
Mar 11	7.31	0.00	100619
Mar 12	7.07	0.00	100619
Mar 13	6.98	0.00	100619
Average Flow (MGD)	7.27	0.32	Inches Rain

Comments: The seven day period of March 7 through March 13, 2021 is identified as a dry weather period within a period of seasonal high groundwater.

DETERMINATION OF NON EXCESSIVE INFLOW

EPA Inflow Criteria 275 gpcd

District Inflow 75 gpcd

Period	Flow	Rain	Population Equivalent
Jan 06	8.78	0.39	100043
Jan 07	8.75	0.01	100043
Jan 08	8.01	0.14	100043
Jan 09	8.02	0.06	100043
Jan 10	8.08	0.04	100043
Jan 11	7.51	0.74	100043
Jan 12	14.34	1.65	100043
Highest Average Flow (MGD)	7.51	3.03	Inches Rain

Comments: The seven day period of January 6 through January 12, 2021 was identified as a period of significant rainfall with surface ponding and runoff. January 12 was the highest recorded daily flow during a storm event.

Salmon Creek Wastewater Management System - Clark Regional Wastewater District

ANNUAL INFILTRATION/INFLOW REPORT 1/1/2021 to 12/31/2021

INFILTRATION/INFLOW SUMMARY

Year	I/I	% Over Base I/I	% of Max Design Flow
2016	2.75	150%	24%
2017	1.73	58%	15%
2018	2.31	110%	20%
2019	1.38	26%	12%
2020	1.32	20%	11%
2021	1.98	80%	17%

Base Year: 2003

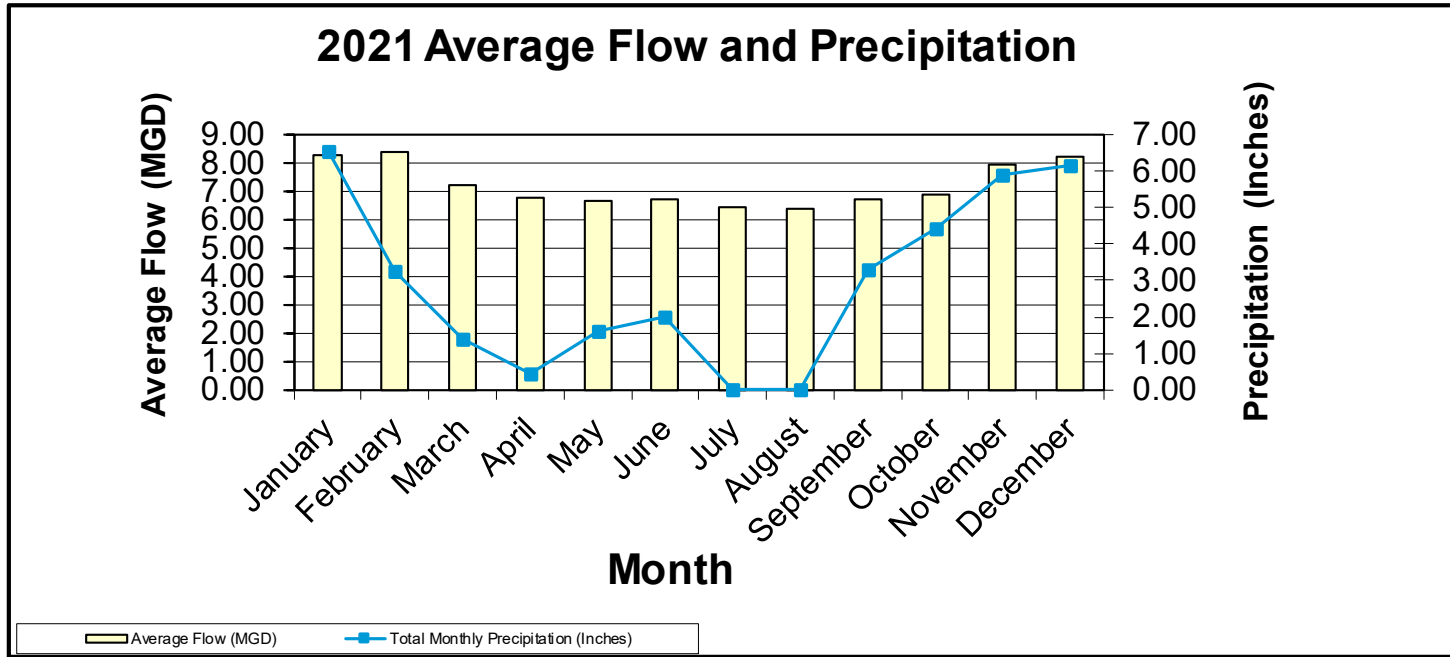
I/I: 1.1

PLANT DESIGN CAPACITY

Peak Design Flow:	15.31 MGD
Max Month Design Flow:	11.48 MGD
Design Population Equivalent:	86,989 People

B-3

Comments: See Overview for I/I discussion.



Comments: Design capacity represents total plant capacity. Present population and infiltration/inflow data included in this report represent Clark Regional Wastewater's usage only. Battle Ground usage is reported separately.





APPENDIX C

MONTHLY FLOW AND RAINFALL



Salmon Creek Wastewater Treatment Plant Flow and Rainfall Report

Date	Meadow Glade GPD	Hockinson GPD	Total BG Inf MGD	BG Only Inf MGD	SC Inf MGD	BG Rainfall	SC Rainfall	District Total Inf MGD
1/1/2021	328600	30900	2.75	2.39	9.60	0.15	0.31	7.21
1/2/2021	398900	54400	3.73	3.28	10.81	0.46	0.97	7.53
1/3/2021	300800	40100	3.56	3.22	13.43	1.73	0.30	10.21
1/4/2021	329200	52200	3.96	3.58	13.37	0.48	0.06	9.79
1/5/2021	252300	37100	3.19	2.90	11.97	0.54	0.10	9.07
1/6/2021	263600	36500	3.27	2.97	11.75	0.37	0.39	8.78
1/7/2021	229500	30300	2.92	2.66	11.41	0.40	0.01	8.75
1/8/2021	240600	31500	2.88	2.61	10.62	0.15	0.14	8.01
1/9/2021	213800	21600	2.51	2.27	10.29	0.19	0.06	8.02
1/10/2021	219700	22400	2.40	2.16	10.24	0.10	0.04	8.08
1/11/2021	286900	38200	2.96	2.63	10.14	0.03	0.74	7.51
1/12/2021*	0	0	0.00	0.00	14.34	1.39	1.65	14.34
1/13/2021	698200	125300	8.94	8.12	15.43	1.50	0.03	7.31
1/14/2021	236100	33800	3.36	3.09	12.80	0.40	0.03	9.71
1/15/2021	217100	32100	2.98	2.73	11.47	0.25	0.12	8.74
1/16/2021	223200	29600	2.91	2.65	10.88	0.05	0.03	8.23
1/17/2021	193900	25000	2.47	2.25	10.43	0.10	0.04	8.18
1/18/2021	215600	23000	2.85	2.61	10.34	0.00	0.00	7.73
1/19/2021	192300	25500	2.59	2.38	9.93	0.00	0.00	7.56
1/20/2021	211200	22800	2.65	2.41	9.64	0.00	0.02	7.23
1/21/2021	193000	21200	2.42	2.20	9.71	0.19	0.10	7.51
1/22/2021	195300	24000	2.12	1.90	9.26	0.00	0.00	7.36
1/23/2021	199300	18800	1.99	1.78	9.11	0.00	0.00	7.33
1/24/2021	242800	22800	2.23	1.97	9.65	0.00	0.47	7.68
1/25/2021	246200	24200	2.15	1.88	9.52	0.42	0.01	7.64
1/26/2021	248900	25600	2.07	1.80	9.21	0.04	0.14	7.41
1/27/2021	267700	22300	2.08	1.79	9.35	0.17	0.19	7.56
1/28/2021	264300	23500	2.15	1.86	9.24	0.15	0.09	7.38
1/29/2021	265600	26500	2.13	1.83	8.97	0.04	0.13	7.14
1/30/2021	266700	22000	2.16	1.87	9.40	0.28	0.15	7.53
1/31/2021	268500	23300	2.1978	1.906	9.62	0.12	0.24	7.71
Total	7909800	966500	86.56	77.69	331.93	9.70	6.56	254.24
Min**	192300	18800	1.99	1.78	8.97	0.00	0.00	7.14
Max	698200	125300	8.94	8.12	15.43	1.73	1.65	14.34
Average	255155	31177	2.79	2.51	10.71	0.31	0.21	8.20

* Flows not recorded due to emergency situation on 1/12, effecting 1/13 data.

** Min calculation adjusted to exclude 1/12.

Salmon Creek Wastewater Treatment Plant Flow and Rainfall Report

Date	Meadow Glade GPD	Hockinson GPD	Total BG Inf MGD	BG Only Inf MGD	SC Inf MGD	BG Rainfall	SC Rainfall	District Total Inf MGD
2/1/2021	334800	36800	2.69	2.32	10.58	0.27	0.38	8.26
2/2/2021	316900	36700	2.68	2.32	10.38	0.46	0.28	8.06
2/3/2021	317500	33000	2.69	2.34	10.64	0.57	0.10	8.30
2/4/2021	296800	33900	2.69	2.36	10.09	0.05	0.05	7.73
2/5/2021	340800	37800	3.09	2.72	10.67	0.53	0.19	7.95
2/6/2021	326600	33900	2.95	2.59	10.75	0.18	0.08	8.16
2/7/2021	296000	28600	2.65	2.33	10.79	0.45	0.01	8.46
2/8/2021	263600	26400	2.45	2.16	10.00	0.02	0.00	7.84
2/9/2021	248100	25500	2.28	2.01	9.53	0.00	0.00	7.52
2/10/2021	253100	21400	2.14	1.87	9.17	0.00	0.00	7.30
2/11/2021	256400	21900	2.12	1.84	9.10	0.03	0.11	7.26
2/12/2021	354100	28700	2.84	2.45	8.98	0.15	0.00	6.53
2/13/2021	182500	16800	1.58	1.38	9.00	0.90	0.06	7.62
2/14/2021	242800	29100	2.39	2.12	9.56	0.21	0.00	7.44
2/15/2021	281600	39800	3.00	2.68	12.95	0.55	0.90	10.27
2/16/2021	286300	51100	3.44	3.10	13.52	0.10	0.12	10.42
2/17/2021	284800	39900	3.35	3.03	12.72	0.04	0.00	9.69
2/18/2021	258400	39300	3.09	2.79	12.06	0.03	0.20	9.27
2/19/2021	254600	32500	3.05	2.76	11.78	0.23	0.05	9.02
2/20/2021	208100	25400	2.61	2.38	11.11	0.05	0.02	8.73
2/21/2021	228500	30400	2.67	2.41	10.81	0.17	0.02	8.40
2/22/2021	247500	41000	3.01	2.72	10.78	0.22	0.15	8.06
2/23/2021	228100	34800	2.78	2.52	10.77	0.51	0.04	8.25
2/24/2021	218500	26000	2.55	2.30	10.17	0.15	0.01	7.87
2/25/2021	240400	34900	2.72	2.45	10.20	0.13	0.27	7.75
2/26/2021	251000	37600	2.84	2.56	10.73	0.54	0.24	8.17
2/27/2021	224300	24000	2.58	2.33	10.49	0.15	0.00	8.16
2/28/2021	211600	22600	2.37	2.13	10.29	0.00	0.00	8.16
Total	7453700	889800	75.31	66.97	297.62	6.69	3.28	230.65
Min	182500	16800	1.58	1.38	8.98	0.00	0.00	6.53
Max	354100	51100	3.44	3.10	13.52	0.90	0.90	10.42
Average	266204	31779	2.69	2.39	10.63	0.24	0.12	8.24

Salmon Creek Wastewater Treatment Plant Flow and Rainfall Report

Date	Meadow Glade GPD	Hockinson GPD	Total BG Inf MGD	BG Only Inf MGD	SC Inf MGD	BG Rainfall	SC Rainfall	District Total Inf MGD
3/1/2021	207700	24500	2.26	2.02	9.87	0.00	0.00	7.85
3/2/2021	205700	22300	2.16	1.93	9.48	0.00	0.00	7.55
3/3/2021	201600	23500	2.04	1.81	9.24	0.00	0.00	7.43
3/4/2021	198700	22400	2.01	1.78	9.12	0.03	0.00	7.34
3/5/2021	200000	24300	2.01	1.79	9.08	0.09	0.04	7.29
3/6/2021	211000	19300	2.04	1.81	9.25	0.05	0.20	7.44
3/7/2021	230600	21100	2.09	1.83	9.50	0.04	0.15	7.67
3/8/2021	239900	24800	2.00	1.74	9.11	0.00	0.05	7.37
3/9/2021	238500	21100	1.80	1.54	8.86	0.02	0.06	7.32
3/10/2021	249500	23300	1.89	1.62	8.78	0.00	0.06	7.16
3/11/2021	247100	22100	1.65	1.38	8.69	0.00	0.00	7.31
3/12/2021	234100	23300	1.80	1.54	8.61	0.00	0.00	7.07
3/13/2021	252100	20500	1.93	1.66	8.64	0.00	0.00	6.98
3/14/2021	204000	16700	1.64	1.42	8.56	0.10	0.00	7.14
3/15/2021	240300	25100	1.84	1.58	8.40	0.00	0.20	6.82
3/16/2021	234900	23500	1.75	1.49	8.53	0.00	0.00	7.04
3/17/2021	234300	20600	1.75	1.50	8.39	0.00	0.00	6.89
3/18/2021	231800	22800	1.89	1.63	8.65	0.17	0.10	7.02
3/19/2021	229700	24800	1.81	1.56	8.54	0.03	0.29	6.98
3/20/2021	230800	19200	1.88	1.63	8.74	0.17	0.07	7.11
3/21/2021	249800	26300	2.15	1.87	8.96	0.07	0.18	7.09
3/22/2021	287100	37100	2.64	2.32	9.91	0.13	0.78	7.59
3/23/2021	251400	29000	2.26	1.98	9.30	0.00	0.41	7.32
3/24/2021	271000	27000	2.32	2.02	9.23	0.20	0.00	7.21
3/25/2021	255900	27600	2.22	1.94	9.20	0.02	0.33	7.26
3/26/2021	263800	28300	2.21	1.91	8.91	0.00	0.11	7.00
3/27/2021	237200	20000	2.02	1.76	8.87	0.00	0.00	7.11
3/28/2021	244400	20200	2.05	1.79	9.19	0.14	0.00	7.40
3/29/2021	263100	26700	2.18	1.89	9.24	0.13	0.32	7.35
3/30/2021	236600	24400	2.02	1.76	8.91	0.00	0.12	7.15
3/31/2021	232300	20800	1.97	1.71	8.73	0.00	0.00	7.02
Total	7314900	732600	62.26	54.21	278.49	1.39	3.47	224.28
Min	198700	16700	1.64	1.38	8.39	0.00	0.00	6.82
Max	287100	37100	2.64	2.32	9.91	0.20	0.78	7.85
Average	235965	23632	2.01	1.75	8.98	0.04	0.11	7.23

Salmon Creek Wastewater Treatment Plant Flow and Rainfall Report

Date	Meadow Glade GPD	Hockinson GPD	Total BG Inf MGD	BG Only Inf MGD	SC Inf MGD	BG Rainfall	SC Rainfall	District Total Inf MGD
4/1/2021	225200	20500	1.93	1.69	8.72	0.00	0.00	7.03
4/2/2021	226500	22800	1.85	1.60	8.56	0.00	0.00	6.96
4/3/2021	220000	19700	1.84	1.60	8.64	0.00	0.00	7.04
4/4/2021	219900	18000	1.77	1.54	8.62	0.00	0.00	7.08
4/5/2021	213000	17600	1.77	1.54	8.35	0.00	0.00	6.81
4/6/2021	204800	17400	1.69	1.47	8.12	0.00	0.00	6.65
4/7/2021	205400	17200	1.69	1.47	8.01	0.00	0.00	6.54
4/8/2021	210600	17100	1.73	1.50	8.05	0.07	0.00	6.55
4/9/2021	214400	20100	1.72	1.48	8.03	0.00	0.00	6.55
4/10/2021	215200	15400	1.71	1.48	8.22	0.10	0.00	6.74
4/11/2021	213400	17800	1.71	1.48	8.55	0.00	0.00	7.07
4/12/2021	205200	18600	1.65	1.43	8.39	0.00	0.00	6.96
4/13/2021	202500	23000	1.61	1.38	8.15	0.00	0.00	6.77
4/14/2021	217200	17100	1.61	1.37	8.09	0.00	0.00	6.72
4/15/2021	203900	21900	1.59	1.36	8.11	0.00	0.00	6.75
4/16/2021	198800	17400	1.55	1.33	8.01	0.00	0.00	6.68
4/17/2021	195200	14300	1.52	1.31	8.05	0.00	0.00	6.74
4/18/2021	220800	16000	1.61	1.37	8.32	0.00	0.00	6.95
4/19/2021	208100	22900	1.58	1.35	8.23	0.00	0.00	6.88
4/20/2021	207000	20600	1.40	1.18	8.00	0.00	0.00	6.82
4/21/2021	199400	16600	1.53	1.31	7.98	0.00	0.00	6.67
4/22/2021	201100	17800	1.54	1.32	8.00	0.00	0.00	6.68
4/23/2021	192600	20600	1.46	1.24	7.90	0.00	0.03	6.66
4/24/2021	202800	15600	1.61	1.39	8.21	0.03	0.25	6.82
4/25/2021	212700	15600	1.60	1.38	8.40	0.29	0.00	7.02
4/26/2021	202900	23100	1.56	1.34	8.19	0.05	0.01	6.85
4/27/2021	190200	21700	1.50	1.29	7.99	0.00	0.00	6.70
4/28/2021	204700	18900	1.25	1.02	7.87	0.00	0.00	6.85
4/29/2021	193000	21700	1.41	1.19	7.97	0.00	0.00	6.78
4/30/2021	199100	21000	1.48	1.26	7.87	0.00	0.14	6.61
Total	6225600	568000	48.47	41.67	245.60	0.54	0.43	203.93
Min	190200	14300	1.25	1.02	7.87	0.00	0.00	6.54
Max	226500	23100	1.93	1.69	8.72	0.29	0.25	7.08
Average	207520	18933	1.62	1.39	8.19	0.02	0.01	6.80

Salmon Creek Wastewater Treatment Plant Flow and Rainfall Report

Date	Meadow Glade GPD	Hockinson GPD	Total BG Inf MGD	BG Only Inf MGD	SC Inf MGD	BG Rainfall	SC Rainfall	District Total Inf MGD
5/1/2021	204300	15400	1.51	1.29	8.07	0.14	0.00	6.78
5/2/2021	212000	14900	1.53	1.31	8.20	0.00	0.00	6.89
5/3/2021	204900	26500	1.54	1.31	8.09	0.00	0.05	6.78
5/4/2021	192000	26100	1.52	1.30	7.91	0.18	0.00	6.61
5/5/2021	205900	21800	1.50	1.28	7.55	0.00	0.00	6.27
5/6/2021	189000	21700	1.47	1.26	7.85	0.00	0.00	6.59
5/7/2021	184200	23000	1.43	1.22	7.83	0.12	0.27	6.61
5/8/2021	204500	14400	1.50	1.28	7.92	0.15	0.00	6.64
5/9/2021	215500	15300	1.53	1.30	7.98	0.01	0.00	6.68
5/10/2021	213900	22200	1.54	1.30	8.05	0.00	0.00	6.75
5/11/2021	203400	22100	1.42	1.19	7.86	0.00	0.00	6.67
5/12/2021	210400	21200	1.60	1.37	7.83	0.00	0.00	6.46
5/13/2021	195200	21000	1.33	1.12	7.86	0.00	0.00	6.74
5/14/2021	189700	22800	1.64	1.42	7.75	0.00	0.00	6.33
5/15/2021	188800	16300	1.45	1.24	7.80	0.00	0.00	6.56
5/16/2021	194800	11600	1.50	1.29	8.06	0.00	0.00	6.77
5/17/2021	197100	23300	1.26	1.04	8.00	0.00	0.00	6.96
5/18/2021	180800	23900	1.59	1.39	7.77	0.01	0.19	6.38
5/19/2021	200900	20900	1.43	1.21	7.79	0.21	0.01	6.58
5/20/2021	192700	23400	1.49	1.27	7.71	0.01	0.02	6.44
5/21/2021	177600	19800	1.19	1.00	7.69	0.10	0.00	6.69
5/22/2021	191000	14700	1.39	1.18	7.74	0.00	0.00	6.56
5/23/2021	192700	14500	1.44	1.23	8.01	0.00	0.04	6.78
5/24/2021	201300	25500	1.69	1.46	8.23	0.02	0.76	6.77
5/25/2021	184200	26800	1.72	1.51	8.26	1.07	0.06	6.75
5/26/2021	202100	23200	1.71	1.49	7.98	0.00	0.00	6.49
5/27/2021	209800	28500	1.84	1.60	8.36	0.50	0.20	6.76
5/28/2021	188300	23700	1.63	1.42	8.05	0.10	0.00	6.63
5/29/2021	187900	16000	1.57	1.37	7.85	0.00	0.00	6.48
5/30/2021	172600	15000	1.49	1.30	7.67	0.00	0.00	6.37
5/31/2021	209400	14800	1.65	1.43	8.22	0.00	0.00	6.79
Total	6096900	630300	47.09	40.36	245.94	2.62	1.60	205.58
Min	172600	11600	1.19	1.00	7.55	0.00	0.00	6.27
Max	215500	28500	1.84	1.60	8.36	1.07	0.76	6.96
Average	196674	20332	1.52	1.30	7.93	0.08	0.05	6.63

Salmon Creek Wastewater Treatment Plant Flow and Rainfall Report

Date	Meadow Glade GPD	Hockinson GPD	Total BG Inf MGD	BG Only Inf MGD	SC Inf MGD	BG Rainfall	SC Rainfall	District Total Inf MGD
6/1/2021	192600	22200	1.52	1.31	8.06	0.00	0.00	6.75
6/2/2021	214400	22000	1.43	1.19	7.89	0.00	0.00	6.59
6/3/2021	208400	21400	1.52	1.29	7.88	0.00	0.00	7.53
6/4/2021	191400	20600	1.50	1.29	7.83	0.00	0.00	7.42
6/5/2021	183000	17900	1.47	1.27	7.94	0.00	0.02	7.03
6/6/2021	193500	14500	1.53	1.33	8.15	0.30	0.05	6.70
6/7/2021	198800	24200	1.55	1.33	7.98	0.05	0.00	6.85
6/8/2021	203200	23400	1.60	1.38	7.88	0.00	0.04	6.70
6/9/2021	181200	20800	1.46	1.26	7.88	0.13	0.00	6.60
6/10/2021	196000	26500	1.57	1.35	7.84	0.00	0.00	6.73
6/11/2021	189700	26900	1.46	1.25	7.82	0.01	0.15	6.76
6/12/2021	200700	23700	1.62	1.40	7.99	0.10	0.39	6.59
6/13/2021	223900	25700	1.92	1.67	9.20	0.62	0.71	7.53
6/14/2021	218700	33600	1.95	1.69	9.11	0.37	0.62	7.42
6/15/2021	198200	33100	1.75	1.52	8.55	0.15	0.01	7.03
6/16/2021	220100	24700	1.82	1.57	8.27	0.11	0.00	6.70
6/17/2021	182400	24400	1.60	1.39	8.24	0.00	0.00	6.85
6/18/2021	205200	21100	1.65	1.42	8.12	0.00	0.00	6.70
6/19/2021	193700	19800	1.59	1.37	7.97	0.00	0.00	6.60
6/20/2021	197900	15400	1.57	1.36	8.09	0.00	0.00	6.73
6/21/2021	200100	18600	1.58	1.36	8.12	0.00	0.00	6.76
6/22/2021	189500	16700	1.52	1.32	7.99	0.00	0.00	6.67
6/23/2021	190400	17600	1.53	1.32	7.86	0.00	0.00	6.54
6/24/2021	182500	16600	1.55	1.35	7.87	0.00	0.00	6.52
6/25/2021	190700	18000	1.59	1.38	7.89	0.00	0.00	6.51
6/26/2021	194800	14200	1.47	1.26	7.74	0.00	0.00	6.48
6/27/2021	166400	16500	1.32	1.14	7.75	0.00	0.00	6.61
6/28/2021	191600	16600	1.56	1.36	7.85	0.00	0.00	6.49
6/29/2021	191400	18300	1.49	1.28	8.03	0.00	0.00	6.75
6/30/2021	195700	16300	1.56	1.29	7.87	0.00	0.00	6.58
Total	5886100	631300	47.24	40.67	241.66	1.84	1.99	203.73
Min	166400	14200	1.32	1.14	7.74	0.00	0.00	6.48
Max	223900	33600	1.95	1.69	9.20	0.62	0.71	7.53
Average	196203	21043	1.57	1.36	8.06	0.06	0.07	6.79

Salmon Creek Wastewater Treatment Plant Flow and Rainfall Report

Date	Meadow Glade GPD	Hockinson GPD	Total BG Inf MGD	BG Only Inf MGD	SC Inf MGD	BG Rainfall	SC Rainfall	District Total Inf MGD
7/1/2021	191100	16300	1.49	1.28	7.82	0.00	0.00	6.54
7/2/2021	187100	14900	1.43	1.23	7.71	0.00	0.00	6.48
7/3/2021	181500	13500	1.42	1.23	7.67	0.00	0.00	6.44
7/4/2021	181200	14200	1.36	1.16	7.46	0.00	0.00	6.30
7/5/2021	204600	14800	1.53	1.31	7.90	0.00	0.00	6.59
7/6/2021	190200	18400	1.43	1.22	7.89	0.00	0.00	6.67
7/7/2021	189500	15300	1.42	1.21	7.70	0.00	0.00	6.49
7/8/2021	185700	14800	1.43	1.23	7.72	0.00	0.00	6.49
7/9/2021	191000	15200	1.43	1.22	7.69	0.00	0.00	6.47
7/10/2021	195200	16400	1.38	1.17	7.67	0.00	0.00	6.50
7/11/2021	198000	16300	1.44	1.23	7.79	0.00	0.00	6.56
7/12/2021	195400	16000	1.46	1.25	7.77	0.00	0.00	6.52
7/13/2021	188500	16500	1.39	1.18	7.66	0.00	0.00	6.48
7/14/2021	195700	17900	1.39	1.17	7.65	0.00	0.00	6.48
7/15/2021	193000	20000	1.42	1.21	7.59	0.00	0.00	6.38
7/16/2021	192500	21100	1.42	1.20	7.58	0.00	0.00	6.38
7/17/2021	190300	21300	1.41	1.20	7.54	0.00	0.00	6.34
7/18/2021	189500	20500	1.40	1.19	7.68	0.00	0.00	6.49
7/19/2021	182600	21000	1.43	1.23	7.76	0.00	0.00	6.53
7/20/2021	186900	20900	1.39	1.18	7.59	0.00	0.00	6.41
7/21/2021	183300	20700	1.34	1.14	7.46	0.00	0.00	6.32
7/22/2021	182200	13800	1.37	1.18	7.52	0.00	0.00	6.34
7/23/2021	191000	17800	1.36	1.16	7.43	0.00	0.00	6.28
7/24/2021	194300	13900	1.36	1.15	7.54	0.00	0.00	6.39
7/25/2021	190500	14000	1.38	1.18	7.72	0.00	0.00	6.54
7/26/2021	186500	16100	1.41	1.20	7.68	0.00	0.00	6.48
7/27/2021	178500	15300	1.36	1.16	7.53	0.00	0.00	6.37
7/28/2021	190700	18300	1.38	1.18	7.51	0.00	0.00	6.33
7/29/2021	185100	15300	1.37	1.17	7.47	0.00	0.00	6.30
7/30/2021	185600	16100	1.39	1.18	7.48	0.00	0.00	6.30
7/31/2021	181200	13700	1.38	1.19	7.52	0.00	0.00	6.33
Total	5858400	520300	43.57	37.19	236.70	0.00	0.00	199.51
Min	178500	13500	1.34	1.14	7.43	0.00	0.00	6.28
Max	204600	21300	1.53	1.31	7.90	0.00	0.00	6.67
Average	188981	16784	1.41	1.20	7.64	0.00	0.00	6.44

Salmon Creek Wastewater Treatment Plant Flow and Rainfall Report

Date	Meadow Glade GPD	Hockinson GPD	Total BG Inf MGD	BG Only Inf MGD	SC Inf MGD	BG Rainfall	SC Rainfall	District Total Inf MGD
8/1/2021	186700	15200	1.39	1.19	7.74	0.00	0.00	6.55
8/2/2021	197500	15200	1.44	1.23	7.76	0.00	0.00	6.53
8/3/2021	187000	16400	1.41	1.20	7.65	0.00	0.00	6.45
8/4/2021	194800	17700	1.37	1.16	7.53	0.00	0.00	6.37
8/5/2021	186600	16400	1.39	1.18	7.56	0.00	0.00	6.38
8/6/2021	191900	15800	1.40	1.19	7.57	0.04	0.00	6.38
8/7/2021	207800	16700	1.49	1.27	7.63	0.09	0.00	6.36
8/8/2021	162000	12600	1.25	1.07	7.69	0.00	0.00	6.62
8/9/2021	191200	15000	1.40	1.20	7.66	0.00	0.00	6.46
8/10/2021	180800	15700	1.33	1.13	7.54	0.00	0.00	6.41
8/11/2021	184600	18200	1.35	1.15	7.44	0.00	0.00	6.29
8/12/2021	184500	14600	1.42	1.22	7.49	0.00	0.00	6.27
8/13/2021	189100	16500	1.36	1.15	7.46	0.00	0.00	6.31
8/14/2021	190600	16100	1.37	1.16	7.33	0.00	0.00	6.17
8/15/2021	196300	17100	1.38	1.16	7.74	0.00	0.00	6.58
8/16/2021	191000	14800	1.39	1.18	7.69	0.00	0.00	6.51
8/17/2021	193400	18200	1.36	1.15	7.49	0.00	0.00	6.34
8/18/2021	184300	14600	1.31	1.11	7.39	0.00	0.00	6.28
8/19/2021	220200	15500	1.38	1.14	7.47	0.00	0.00	6.33
8/20/2021	201800	15100	1.35	1.13	7.42	0.02	0.00	6.29
8/21/2021	180600	13300	1.31	1.11	7.44	0.00	0.00	6.33
8/22/2021	186600	14600	1.35	1.15	7.64	0.00	0.00	6.49
8/23/2021	203800	15100	1.38	1.16	7.41	0.00	0.00	6.25
8/24/2021	184600	17000	1.32	1.12	7.60	0.00	0.00	6.48
8/25/2021	191700	16600	1.33	1.12	7.41	0.00	0.00	6.29
8/26/2021	197200	19200	1.40	1.18	7.49	0.00	0.03	6.31
8/27/2021	185200	14200	1.32	1.12	7.41	0.03	0.00	6.29
8/28/2021	176700	14300	1.33	1.13	7.51	0.00	0.00	6.38
8/29/2021	193300	15600	1.37	1.16	7.70	0.00	0.00	6.54
8/30/2021	210900	15600	1.41	1.18	7.81	0.00	0.00	6.63
8/31/2021	187400	18700	1.36	1.15	7.63	0.00	0.00	6.48
Total	5920100	491600	42.38	35.97	234.30	0.18	0.03	198.33
Min	162000	12600	1.25	1.07	7.33	0.00	0.00	6.17
Max	220200	19200	1.49	1.27	7.81	0.09	0.03	6.63
Average	190971	15858	1.37	1.16	7.56	0.01	0.00	6.40

Salmon Creek Wastewater Treatment Plant Flow and Rainfall Report

Date	Meadow Glade GPD	Hockinson GPD	Total BG Inf MGD	BG Only Inf MGD	SC Inf MGD	BG Rainfall	SC Rainfall	District Total Inf MGD
9/1/2021	200300	21800	1.38	1.16	7.55	0.00	0.00	6.39
9/2/2021	196800	23400	1.39	1.17	7.61	0.00	0.00	6.44
9/3/2021	177400	22200	1.31	1.11	7.52	0.00	0.00	6.41
9/4/2021	178600	14600	1.31	1.12	7.48	0.00	0.00	6.36
9/5/2021	173100	13500	1.25	1.06	7.47	0.00	0.00	6.41
9/6/2021	209600	15700	1.47	1.24	7.98	0.00	0.00	6.74
9/7/2021	193700	24000	1.39	1.17	7.74	0.00	0.00	6.57
9/8/2021	201000	22600	1.37	1.14	7.65	0.00	0.00	6.51
9/9/2021	195700	26200	1.40	1.18	7.65	0.00	0.00	6.47
9/10/2021	210400	23500	1.43	1.19	7.50	0.00	0.00	6.31
9/11/2021	172300	13700	1.24	1.05	7.62	0.00	0.00	6.57
9/12/2021	198700	13600	1.35	1.13	7.96	0.00	0.00	6.83
9/13/2021	191600	23200	1.36	1.15	7.69	0.00	0.00	6.54
9/14/2021	194100	24900	1.38	1.16	7.54	0.00	0.00	6.38
9/15/2021	198300	22700	1.36	1.13	7.49	0.00	0.00	6.36
9/16/2021	189700	31300	1.39	1.17	7.49	0.00	0.00	6.32
9/17/2021	187600	27600	1.41	1.19	7.41	0.00	0.08	6.22
9/18/2021	200500	27100	1.89	1.66	8.97	1.08	2.30	7.31
9/19/2021	207400	24300	1.92	1.69	10.39	1.68	0.10	8.70
9/20/2021	196100	27900	1.68	1.46	8.62	0.85	0.01	7.16
9/21/2021	196600	29500	1.59	1.37	8.08	0.00	0.00	6.71
9/22/2021	203600	22700	1.53	1.30	7.85	0.00	0.03	6.55
9/23/2021	204700	24300	1.49	1.26	7.74	0.00	0.00	6.48
9/24/2021	205900	26600	1.47	1.24	7.63	0.00	0.00	6.39
9/25/2021	188400	17800	1.43	1.23	7.74	0.00	0.01	6.51
9/26/2021	187000	23900	1.50	1.29	8.00	0.00	0.08	6.71
9/27/2021	199100	35200	1.82	1.58	8.54	0.43	0.38	6.96
9/28/2021	192400	36900	1.71	1.48	8.30	0.57	0.18	6.82
9/29/2021	193700	31200	1.61	1.38	8.03	0.30	0.03	6.65
9/30/2021	195300	30400	1.65	1.42	8.06	0.05	0.10	6.64
Total	5839600	722300	44.47	37.91	237.30	4.96	3.30	199.40
Min	172300	13500	1.24	1.05	7.41	0.00	0.00	6.22
Max	210400	36900	1.92	1.69	10.39	1.68	2.30	8.70
Average	194653	24077	1.48	1.26	7.91	0.17	0.11	6.65

Salmon Creek Wastewater Treatment Plant Flow and Rainfall Report

Date	Meadow Glade GPD	Hockinson GPD	Total BG Inf MGD	BG Only Inf MGD	SC Inf MGD	BG Rainfall	SC Rainfall	District Total Inf MGD
10/1/2021	181600	30900	1.55	1.34	7.87	0.20	0.01	6.53
10/2/2021	199400	19600	1.54	1.32	7.94	0.00	0.00	6.62
10/3/2021	233600	22200	1.72	1.47	8.18	0.00	0.00	6.71
10/4/2021	179100	26100	1.43	1.22	7.87	0.00	0.00	6.65
10/5/2021	198000	27600	1.62	1.39	8.12	0.00	0.36	6.73
10/6/2021	196700	25500	1.64	1.41	7.97	0.47	0.03	6.56
10/7/2021	184700	30900	1.50	1.28	7.75	0.00	0.01	6.47
10/8/2021	188000	17400	1.47	1.27	7.70	0.00	0.01	6.43
10/9/2021	190000	14500	1.46	1.26	7.71	0.00	0.06	6.45
10/10/2021	208900	17100	1.66	1.44	8.34	0.26	0.16	6.90
10/11/2021	191400	23400	1.58	1.36	8.03	0.25	0.01	6.67
10/12/2021	192200	24500	1.56	1.35	7.82	0.00	0.13	6.47
10/13/2021	190900	24900	1.62	1.41	7.92	0.19	0.16	6.51
10/14/2021	189400	30100	1.71	1.49	8.20	0.40	0.10	6.71
10/15/2021	212300	25900	1.78	1.55	7.97	0.13	0.01	6.42
10/16/2021	189300	14900	1.56	1.36	7.98	0.02	0.02	6.62
10/17/2021	188900	12800	1.51	1.31	8.25	0.00	0.09	6.94
10/18/2021	180900	27100	1.50	1.29	7.94	0.00	0.01	6.65
10/19/2021	186700	28000	1.50	1.28	7.74	0.00	0.04	6.46
10/20/2021	184100	24200	1.53	1.32	7.89	0.18	0.26	6.57
10/21/2021	192800	31500	1.90	1.68	8.19	0.10	0.97	6.51
10/22/2021	188400	34700	2.08	1.86	9.30	1.03	0.07	7.44
10/23/2021	205600	28300	2.25	2.01	9.47	0.47	0.40	7.46
10/24/2021	200800	20800	1.94	1.72	9.59	0.33	0.36	7.87
10/25/2021	195300	28500	1.91	1.68	8.90	0.15	0.06	7.22
10/26/2021	191200	29300	1.84	1.62	8.57	0.20	0.13	6.95
10/27/2021	189900	29200	1.84	1.62	8.57	0.38	0.12	6.95
10/28/2021	199400	30000	2.02	1.79	8.47	0.14	0.39	6.68
10/29/2021	190600	36900	2.10	1.87	9.53	0.48	0.46	7.66
10/30/2021	195000	20900	1.88	1.67	8.99	0.04	0.00	7.32
10/31/2021	196700	19700	1.83	1.61	8.73	0.00	0.00	7.12
Total	6011800	777400	53.04	46.25	257.50	5.42	4.43	211.25
Min	179100	12800	1.43	1.22	7.70	0.00	0.00	6.42
Max	233600	36900	2.25	2.01	9.59	1.03	0.97	7.87
Average	193929	25077	1.71	1.49	8.31	0.17	0.14	6.81

Salmon Creek Wastewater Treatment Plant Flow and Rainfall Report

Date	Meadow Glade GPD	Hockinson GPD	Total BG Inf MGD	BG Only Inf MGD	SC Inf MGD	BG Rainfall	SC Rainfall	District Total Inf MGD
11/1/2021	203800	32800	1.87	1.64	8.75	0.00	0.00	7.11
11/2/2021	189300	28200	1.75	1.54	8.53	0.29	0.30	6.99
11/3/2021	204600	32500	1.88	1.65	8.44	0.06	0.45	6.79
11/4/2021	209800	36500	2.28	2.04	9.51	0.34	0.24	7.47
11/5/2021	181100	36900	2.09	1.87	9.14	0.50	0.10	7.27
11/6/2021	201300	29900	2.22	1.99	9.32	0.30	0.22	7.33
11/7/2021	214400	29700	2.28	2.04	9.50	0.30	0.07	7.46
11/8/2021	195600	34600	2.09	1.86	9.50	0.19	0.14	7.64
11/9/2021	204900	39500	2.24	1.99	9.44	0.29	0.40	7.45
11/10/2021	219700	35800	2.31	2.05	8.75	0.35	0.10	6.70
11/11/2021	352200	74300	3.96	3.54	10.93	0.74	1.02	7.39
11/12/2021	286800	94600	4.53	4.15	15.12	2.10	1.02	10.97
11/13/2021	253100	39900	3.34	3.05	13.34	0.70	0.01	10.29
11/14/2021	241400	27800	2.68	2.41	11.48	0.00	0.00	9.07
11/15/2021	240600	37600	2.54	2.26	10.54	0.00	0.28	8.28
11/16/2021	218800	36800	2.27	2.02	9.79	0.23	0.01	7.77
11/17/2021	230500	32600	2.20	1.94	9.40	0.00	0.01	7.46
11/18/2021	233000	36600	2.31	2.04	9.41	0.00	0.48	7.37
11/19/2021	230500	39700	2.45	2.18	10.14	0.67	0.21	7.96
11/20/2021	231500	28800	2.26	2.00	9.80	0.01	0.01	7.80
11/21/2021	230500	22600	2.14	1.89	9.70	0.00	0.01	7.81
11/22/2021	236100	36000	2.22	1.94	9.33	0.00	0.25	7.39
11/23/2021	234000	36300	2.18	1.91	9.74	0.44	0.18	7.83
11/24/2021	260700	27100	2.30	2.01	9.63	0.05	0.01	7.62
11/25/2021	254700	26800	2.23	1.95	9.61	0.02	0.19	7.66
11/26/2021	229400	25900	2.17	1.91	9.48	0.61	0.01	7.57
11/27/2021	307200	36400	2.81	2.47	9.71	0.03	0.14	7.24
11/28/2021	212900	24500	2.09	1.85	10.01	0.33	0.00	8.16
11/29/2021	253900	38000	2.45	2.16	9.78	0.39	0.04	7.62
11/30/2021	230800	34600	2.24	1.98	9.32	0.00	0.00	7.34
Total	6993100	1093300	72.40	64.32	297.14	8.94	5.90	232.82
Min	181100	22600	1.75	1.54	8.44	0.00	0.00	6.70
Max	352200	94600	4.53	4.15	15.12	2.10	1.02	10.97
Average	233103	36443	2.41	2.14	9.90	0.30	0.20	7.76

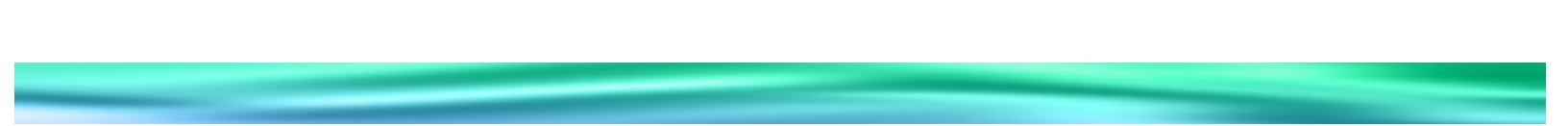
Salmon Creek Wastewater Treatment Plant Flow and Rainfall Report

Date	Meadow Glade GPD	Hockinson GPD	Total BG Inf MGD	BG Only Inf MGD	SC Inf MGD	BG Rainfall	SC Rainfall	District Total Inf MGD
12/1/2021	243000	33400	2.19	1.91	9.04	0.00	0.00	7.13
12/2/2021	228900	34600	2.04	1.78	8.91	0.00	0.00	7.13
12/3/2021	202500	29100	1.88	1.65	8.70	0.00	0.00	7.05
12/4/2021	223900	23200	1.99	1.74	8.80	0.00	0.18	7.06
12/5/2021	243100	23100	2.10	1.83	9.10	0.20	0.18	7.27
12/6/2021	284800	53100	2.74	2.40	9.99	0.33	0.52	7.59
12/7/2021	269200	47000	2.67	2.35	10.39	0.82	0.03	8.04
12/8/2021	258100	43700	2.54	2.24	9.25	0.13	0.07	7.01
12/9/2021	272200	42300	2.52	2.21	9.71	0.15	0.05	7.50
12/10/2021	281200	38400	2.39	2.08	9.42	0.28	0.05	7.35
12/11/2021	364900	51900	3.20	2.79	11.25	0.75	0.87	8.46
12/12/2021	356600	47600	3.40	3.00	11.95	0.72	0.35	8.95
12/13/2021	344700	55400	3.25	2.85	12.05	0.58	0.37	9.20
12/14/2021	299500	45500	2.80	2.46	11.14	0.27	0.01	8.68
12/15/2021	283200	37300	2.63	2.31	10.48	0.00	0.34	8.17
12/16/2021	272400	36700	2.53	2.22	10.29	0.25	0.04	8.07
12/17/2021	260800	34500	2.40	2.10	9.79	0.15	0.17	7.69
12/18/2021	383500	57000	3.63	3.19	11.22	0.25	1.12	8.03
12/19/2021	361800	64200	4.10	3.68	14.32	1.50	0.35	10.64
12/20/2021	290300	50600	3.55	3.21	13.97	0.63	0.33	10.76
12/21/2021	253000	35700	3.13	2.84	12.35	0.18	0.16	9.51
12/22/2021	253200	34700	2.95	2.66	11.58	0.17	0.42	8.92
12/23/2021	256400	30700	2.88	2.59	11.66	0.28	0.01	9.07
12/24/2021	271400	33500	2.86	2.56	11.92	0.27	0.27	9.36
12/25/2021	264900	29500	2.67	2.37	10.46	0.07	0.04	8.09
12/26/2021	257600	24000	2.47	2.19	10.53	0.10	0.04	8.34
12/27/2021	225900	27100	2.42	2.17	10.25	0.13	0.01	8.08
12/28/2021	243800	25200	2.41	2.14	9.95	0.18	0.07	7.81
12/29/2021	214700	23600	2.01	1.77	9.95	0.18	0.02	8.18
12/30/2021	279700	32400	2.28	1.97	10.07	0.10	0.10	8.10
12/31/2021	258600	30100	2.56	2.27	9.64	0.45	0.01	7.37
Total	8503800	1175100	83.20	73.52	328.13	9.12	6.18	254.61
Min	202500	23100	1.88	1.65	8.70	0.00	0.00	7.01
Max	383500	64200	4.10	3.68	14.32	1.50	1.12	10.76
Average	274316	37906	2.68	2.37	10.58	0.29	0.20	8.21



APPENDIX D

ERU AND SEWER LINE DATA



**CLARK REGIONAL WASTEWATER DISTRICT
SALMON CREEK TREATMENT PLANT
SEWER CONNECTION REPORT**

Year: Jan 2021 - Dec 2021

Month	New Residential	Total Residential	Multi Family/ Guesthomes (*8)	Total Res/ Multi-Family	New Commercial	Total Commercial	Grand Total ERU's	Line Construction		Total Line Construction	Total Miles	Year to Date				
								Developer	District			ERU'S				
												SCTP - All				
												Res	1,326.0			
												Multi-Family	411.8			
												Comm	71.3			
												Total	1,809.1			
Balance Forward	ERU's	26963.0		6555.4		4406.7	37925.1			2291387	434.0					
Jan	39.0	27002.0	2.0 ♦	6557.4	0.0	4406.7	37966.1	5937	0	2297324	435.1			VTP		
Feb	50.0	27052.0	0.0	6557.4	1.0 ♦	4407.7	38017.1	876	0	2298200	435.3			Res	62.0	
Mar	93.0	27145.0	4.0 ♦	6561.4	0.0	4407.7	38114.1	1909	0	2300109	435.6			Multi-Family	4.0	
Apr	87.0	27232.0	134.2 ♦	6695.6	3.5 ♦	4411.2	38338.8	820	0	2300929	435.8			Comm	-	
May	77.0	27309.0	0.8 ♦	6696.4	0.0	4411.2	38416.6	7737	0	2308666	437.2			Total	66.0	
Jun	53.0	27362.0	76.0 ♦	6772.4	11.9 ♦	4423.1	38557.5	1585	0	2310251	437.5			RTP		
Jul	59.0	27421.0	19.2 ♦	6791.6	0.4 ♦	4423.5	38636.1	0	0	2310251	437.5			Res	142.0	
Aug	70.0	27491.0	38.4 ♦	6830.0	6.3 ♦	4429.8	38750.8	4621	0	2314872	438.4			Multi-Family	-	
Sep	41.0	27532.0	0.0	6830.0	2.7 ♦	4432.5	38794.5	0	0	2314872	438.4			Comm	1.0	
Oct	37.0	27569.0	38.4 ♦	6868.4	2.6 ♦	4435.1	38872.5	2858	0	2317730	439.0			Total	143.0	
Nov	91.0	27660.0	75.6 ♦	6944.0	1.3 ♦	4436.4	39040.4	13492	0	2331222	441.5			Permits		
Dec	73.0	27733.0	0.0	6944.0	9.6 ♦	4446.0	39123.0	4015	0	2335237	442.3			SCTP	1369	
Subtotals	770.0		388.6		39.3			43850	0					RTP	146	
Total ERU's		27733.0		6944.0		4446.0	39123.0			2335237	442.3			VTP	63	
												Total	1578			

♦ See reverse for explanation

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January		May		September		November	
SCTP	Duplex on vacant lot	SCTP	New ADU	SCTP	Legacy Hospital MOB 1A	SCTP	Acero Padden Apartments
	◆ 6009 NE 105th Avenue		◆ 12010 NW 17th Ave		◆ Evergreen Ortho		◆ 7714 NE 39th Ct
	<u>2.0</u>		<u>0.8</u>		0.4		
	2.0		0.8	SCTP	Big 5		◆ Building B
February		June			◆ 8311 NE Highway 99		◆ Building F
SCTP	Wiebold Industrial	SCTP	134th Lofts		◆ Kloud 9 Salon		◆ Building G
	7314 NE 113th Street		2220 NE 134th St	SCTP	Crossroads Professional Center		◆ Building H
	◆ Vanport Rigging		◆ Apartments		◆ 14508 NE 20th Ave		◆ Building J
	<u>1.0</u>		74.4		◆ Sea Mar Community Health Center		◆ Building K
	1.0	SCTP	New ADU		<u>5.7</u>		◆ Building P
March			◆ 10911 NE 10th Ave		6.3		◆ Building V
SCTP	Duplex on vacant lot	SCTP	New ADU				<u>9.6</u>
	◆ 6011 NE 105th Ave		◆ 11806 NE 26th Pl				74.8
	<u>2.0</u>		<u>0.8</u>	SCTP	Salmon Creek Center		
	2.0		76.0		◆ 14313 NE 20th Ave	SCTP	New ADU
SCTP	Prairie Commons Ph 1	SCTP	134th Street Lofts		◆ Generations Church		◆ 102 NW Bassel Rd
	10813 NE 121st Ave		2220 NE 134th St		0.7		<u>0.8</u>
	◆ Duplex		◆ Hotel	SCTP	Synergy Industrial		75.6
	<u>2.0</u>		<u>11.9</u>		◆ 9310 NE 62nd Ave	SCTP	Acero Padden Apartments
	2.0		11.9		◆ Shell Building 1		◆ 7714 NE 39th Ct
April		July			◆ Shell Building 2		◆ Community Center
SCTP	University Place Apartments	SCTP	Acero Padden Apartments		<u>1.0</u>		1.0
	13914 NE Salmon Creek Ave		7714 NE 39th Ct		2.7	SCTP	Hazel Dell Towne Center
	◆ Apartments		◆ Building W				8902 NE 5th Ave Ste 109
	131.4		◆ Building X	SCTP	Acero Padden Apartments		◆ Landmark Financial
SCTP	New ADU		<u>9.6</u>		7714 NE 39th Ct		<u>0.3</u>
	◆ 11914 NE 49th Ct		19.2		◆ Building C		1.3
	0.8				◆ Building D		
SCTP	Prairie Commons Ph 1	SCTP	Ziegler Commercial Bldg C		◆ Building E	SCTP	40 et 8 Voiture 99
	12018 NE 109th St		9228 NE Highway 99		◆ Building N		7607 NE 26th Ave
	◆ Duplex		◆ Vancouver Fitness		<u>9.6</u>		◆ Deerpoint Meadows
	<u>2.0</u>		<u>0.4</u>		38.4		<u>9.6</u>
	134.2		0.4				9.6
August		August		SCTP	Gateway Medical		
SCTP	University Place Apartments	SCTP	Acero Padden Apartments		2621 NE 134th St Ste 300		
	13914 NE Salmon Creek Ave		7714 NE 39th Ct		◆ Vancouver Clinic ENT Audiology		
	◆ Office		◆ Building M		0.9		
	1.0		◆ Building Q		2621 NE 134th St Ste 200		
SCTP	Totem Shopping Center		◆ Building R		◆ Chicago Title		
	7919 NE Highway 99		◆ Building U		0.5		
	◆ Advanced Auto Parts		<u>9.6</u>		2621 NE 134th St Ste 220		
	0.1		38.4		◆ Nutri Pure		
	Felida Village				0.2		
	3602 NW 119th St			SCTP	Hazel Dell Premier Storage		
	◆ XV Vino				◆ 500 NE 94th St		
	1.6				<u>1.0</u>		
	Fire Station 63				2.6		
	◆ 1303 NE 136th St						
	<u>0.8</u>						
	3.5						

**CLARK REGIONAL WASTEWATER DISTRICT
MEADOWGLADE AREA
SALMON CREEK TREATMENT PLANT
SEWER CONNECTION REPORT**

Year: Jan 2021 - Dec 2021

Month	New Residential	Total Residential	Multi Family/ Guesthomes (*8)	Total Res/ Multi-Family	New Commercial	Total Commercial	Grand Total ERU's	Line Construction		Total Line Construction	Total Miles
	ERU's							Developer	District		
Balance Forward		751.0		2.4		182.4	935.8			30501	5.8
Jan	0.0	751.0	0.0	2.4	0.0	182.4	935.8	0	0	30501	5.8
Feb	0.0	751.0	0.8 ♦	3.2	0.0	182.4	936.6	0	0	30501	5.8
Mar	0.0	751.0	0.0	3.2	0.0	182.4	936.6	0	0	30501	5.8
Apr	0.0	751.0	0.0	3.2	0.0	182.4	936.6	0	0	30501	5.8
May	0.0	751.0	0.0	3.2	0.0	182.4	936.6	0	0	30501	5.8
Jun	0.0	751.0	0.0	3.2	0.0	182.4	936.6	0	0	30501	5.8
Jul	1.0	752.0	0.0	3.2	0.0	182.4	937.6	0	0	30501	5.8
Aug	0.0	752.0	0.0	3.2	0.0	182.4	937.6	0	0	30501	5.8
Sep	0.0	752.0	0.8 ♦	4.0	2.0 ♦	184.4	940.4	354	0	30855	5.8
Oct	0.0	752.0	0.0	4.0	0.0	184.4	940.4	0	0	30855	5.8
Nov	0.0	752.0	0.0	4.0	0.0	184.4	940.4	0	0	30855	5.8
Dec	0.0	752.0	0.0	4.0	0.0	184.4	940.4	0	0	30855	5.8
Subtotals	1.0		1.6		2.0			354	0		
Total ERU's		752.0		4.0		184.4	940.4			30855	5.8

♦ See reverse for explanation

		February	
SCTP M	New ADU		
	◆ 18704 NE 101st Avenue		<u>0.8</u>
			0.8
		September	
SCTP M	Existing Home New ADU		
	◆ 9707 NE 180th Cir		<u>0.8</u>
			0.8
SCTP M	Space Age Fuel		
	◆ 1108 SW 40th St		<u>2.0</u>
			2.0



**CLARK REGIONAL WASTEWATER DISTRICT
HOCKINSON AREA
SALMON CREEK TREATMENT PLANT
SEWER CONNECTION REPORT**

Year: Jan 2021 - Dec 2021

Month	New Residential	Total Residential	Multi Family/ Guesthomes (*8)	Total Res/ Multi-Family	New Commercial	Total Commercial	Grand Total ERU's	Line Construction		Total Line Construction	Total Miles
	ERU's							Developer	District		
Balance Forward		75.0		0.0		137.3	212.3			7061	1.3
Jan	1.0	76.0	0.0	0.0	0.0	137.3	213.3	0	0	7061	1.3
Feb	0.0	76.0	0.0	0.0	0.0	137.3	213.3	0	0	7061	1.3
Mar	0.0	76.0	0.0	0.0	0.0	137.3	213.3	0	0	7061	1.3
Apr	0.0	76.0	0.0	0.0	0.0	137.3	213.3	0	0	7061	1.3
May	0.0	76.0	0.0	0.0	0.0	137.3	213.3	0	0	7061	1.3
Jun	0.0	76.0	0.0	0.0	0.0	137.3	213.3	0	0	7061	1.3
Jul	0.0	76.0	0.0	0.0	0.0	137.3	213.3	0	0	7061	1.3
Aug	0.0	76.0	0.0	0.0	0.0	137.3	213.3	0	0	7061	1.3
Sep	0.0	76.0	0.0	0.0	0.0	137.3	213.3	0	0	7061	1.3
Oct	0.0	76.0	0.0	0.0	0.0	137.3	213.3	0	0	7061	1.3
Nov	0.0	76.0	0.0	0.0	0.0	137.3	213.3	0	0	7061	1.3
Dec	0.0	76.0	0.0	0.0	0.0	137.3	213.3	0	0	7061	1.3
Subtotals	1.0		0.0		0.0			0	0		
Total ERU's		76.0		0.0		137.3	213.3			7061	1.3

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**CLARK REGIONAL WASTEWATER DISTRICT
RIDGEFIELD AREA
SALMON CREEK TREATMENT PLANT
SEWER CONNECTION REPORT**

Year: Jan 2021 - Dec 2021

Month	New Residential	Total Residential	Multi Family/ Guesthomes (*8)	Total Res/ Multi-Family	New Commercial	Total Commercial	Grand Total ERU's	Line Construction		Total Line Construction	Total Miles
	ERU's							Developer	District		
Balance Forward		1407.0		336.0		265.4	2186.4			210817.0	39.9
Jan	52.0	1459.0	0.0	336.0	0.0	259.9	2054.9	0.0	0.0	206649.0	39.1
Feb	34.0	1493.0	0.0	336.0	2.0 ♦	261.9	2090.9	4168.0	0.0	210817.0	39.9
Mar	52.0	1545.0	0.0	336.0	0.0	261.9	2142.9	0.0	0.0	210817.0	39.9
Apr	40.0	1585.0	0.0	336.0	3.5 ♦	265.4	2186.4	0.0	0.0	210817.0	39.9
May	35.0	1620.0	0.0	336.0	3.0 ♦	268.4	2224.4	0.0	0.0	210817.0	39.9
Jun	71.0	1691.0	0.0	336.0	2.0 ♦	270.4	2297.4	2395.0	0.0	213212.0	40.4
Jul	62.0	1753.0	0.0	336.0	0.0	270.4	2359.4	0.0	0.0	213212.0	40.4
Aug	40.0	1793.0	0.0	336.0	0.4 ♦	270.8	2399.8	0.0	0.0	213212.0	40.4
Sep	46.0	1839.0	0.0	336.0	0.0	270.8	2445.8	1964.0	0.0	215176.0	40.8
Oct	53.0	1892.0	2.4 ♦	338.4	0.0	270.8	2501.2	2602.0	0.0	217778.0	41.2
Nov	34.0	1926.0	0.0	338.4	4.0 ♦	274.8	2539.2	0.0	0.0	217778.0	41.2
Dec	35.0	1961.0	19.2 ♦	357.6	15.1 ♦	289.9	2608.5	0.0	0.0	217778.0	41.2
Subtotals	554.0		21.6		30.0			11129.0	0.0		
Total ERU's		1961.0		357.6		289.9	2608.5			217778	41.2

♦ See next page for explanation

February

SCTP R	Pioneer Village		
	4306 S Settler Drive		
◆	Shell Bldg 2	1.0	
	4318 S Settler Drive		
◆	Shell Bldg 4	<u>1.0</u>	
		2.0	

April

SCTP R	Discovery Ridge Ph 1		
	11 S 47th Ave		
◆	Mod Pizza	<u>3.5</u>	
		3.5	

May

SCTP R	Pioneer Village		
	4320 S Settler Drive		
◆	Shell Bldg 9	1.0	
	4326 S Settler Drive		
◆	Shell Bldg 10	1.0	
	4405 S Settler Drive		
◆	Riverview Bank	<u>1.0</u>	
		3.0	

June

SCTP R	Pioneer Village		
	4300 S Settler Dr		
◆	Starbucks	<u>2.0</u>	
		2.0	

August

SCTP R	Discovery Ridge Ph 1		
	11 S 47th Ave		
◆	Oasis Dental	<u>0.4</u>	
		0.4	

October

SCTP R	Legacy Trails Apartments		
	544 S Royle Rd		
◆	Building I	<u>2.4</u>	
		2.4	

November

SCTP R	Pioneer Village		
	4315 S Settler Dr		
◆	Building 5	1.0	
	4315 S Settler Dr		
◆	Building 6	1.0	
	4327 S Settler Dr		
◆	Building 7	1.0	
	4327 S Settler Dr		
◆	Building 8	<u>1.0</u>	
		4.0	

December

SCTP R	Legacy Trails Apartments		
	540 S Royle Rd		
◆	Building F	<u>19.2</u>	
		19.2	
SCTP R	Pioneer Village		
	4315 S Settler Dr Ste 100		
◆	BevRidge Public	3.0	
SCTP R	Prairie Electric		
	27050 NE 10th Ave		11.1
SCTP R	Seppanen Construction		
	27208 NE 10th Ave	<u>1.0</u>	
		15.1	