



WATER OPERATING BOARD

Wednesday, September 27, 2023, 3:00 PM
C&ED Conf Room
Longview City Hall
1525 Broadway Longview, WA 98632

AGENDA

The Water Operating Board will discuss and take action as appropriate on the following matters:

The City Hall is accessible for persons with disabilities. Special equipment to assist the hearing impaired is also available. Please contact the City Executive Office at 360.442.5004 48 hours in advance if you require special accommodations to attend the meeting.

To attend the meeting virtually, use the link or information below:

Microsoft Teams meeting

Join on your computer, mobile app or room device

[Click here to join the meeting](#)

Meeting ID: 230 548 658 107

Passcode: rWv9Rq

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1. ROLL CALL
2. MINUTES
23-001522 October 18, 2022 minutes
3. PUBLIC COMMENT
4. WATER PRODUCTION/CONSUMPTION REVIEW
23-001529 Production/Consumption reports
5. FINANCIAL REVIEW
23-001524 2023 - 2024
6. WHOLESALE WATER RATE
23-001525 Wholesale water rate analysis and direction to staff
7. WATER SUPPLY, TREATMENT, AND DISTRIBUTION
23-001526 Project Updates:
 1. Hypo tank
 2. Well house stabilization
 3. Equipment storage building
8. FILTER PLANT 2023-2024 CONSTRUCTION BUDGET
9. TREATMENT PLANT OPERATING REPORT

10. **PARTICIPANTS' AGREEMENT**

23-001530 Agreement

11. **OTHER BUSINESS**

23-001527

1. General discussion of water treatment, distribution and Water Operating Board matters
2. Direction to staff as appropriate

Water Operating Board:

Representatives

Beacon Hill Water & Sewer District: Dell Hillger (Chairman)

City of Longview: Ruth Kendall, Mike Wallin

Staff

Ken Hash, Chris Collins, John Axford, Brian Steveson, Thomas Daly, Lisa Vertrees





WATER OPERATING BOARD

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Join Zoom Meeting

<https://us04web.zoom.us/j/75321831180?pwd=2lgakB1e4kjzUXkHaz1boYXgp885Ao.1>

Meeting ID: 753 2183 1180

Passcode: 7QXk8B

1. **ROLL CALL**

Chairman Hillger called the meeting to order at 3:00 p.m.

Present:

Water Operating Board:

Representatives

Beacon Hill Water & Sewer District: Dell Hillger (Chairman)

City of Longview: Ruth Kendall, Mike Wallin

Staff

Karl Enyeart, Brian Steveson, Thomas Daly, Lisa Vertrees

2. **MINUTES**

22-000636 Minutes of the August 23, 2022 meeting

A motion was made by Member Ruth Kendall, seconded by Member Mike Wallin, to approve the August 23, 2022 meeting minutes. The motion carried by the following vote:

Ayes: Member Dell Hillger, Member Ruth Kendall, Member Mike Wallin

Nays: None

3. **PUBLIC COMMENT**

None at this time.

4. **WHOLESALE WATER RATE**

**22-000637 Purveyor water rate change
Resolution 22-001**

After a brief discussion of Kelso's past two months of water ccf, and a brief update regarding communication between Longview and Kelso, a motion was made by Member Mike Wallin, seconded by Member Ruth Kendall, to approve Resolution 22-001. The motion carried by the following vote:

Ayes: Member Dell Hillger, Member Ruth Kendall, Member Mike Wallin
Nays: None

5. **OTHER BUSINESS**

None at this time.

With no further business to discuss, the meeting adjourned at 3:12 p.m.

Dell Hillger, Chairman

Lisa Vertrees, Clerk of the Board

Water Operating Board:

Representatives

Beacon Hill Water & Sewer District: Dell Hillger (Chairman)

City of Longview: Ruth Kendall, Mike Wallin

Staff

Ken Hash, Karl Enyeart, John Axford, Brian Steveson, Thomas Daly, Lisa Vertrees



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City of Longview

Agenda Summary

Production/Consumption reports

Attachments:

1. 9-19-23 draft WOB PRODUCTION SUMMARIES REPORT

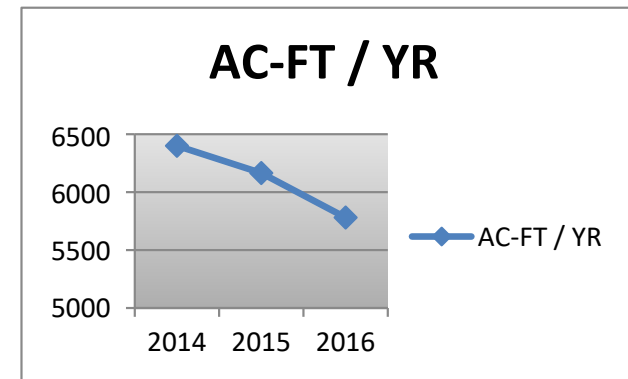
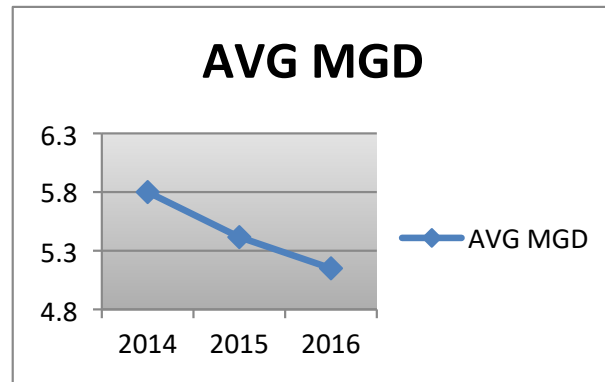
	B	C	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL
1	September 19, 2023																				
2			2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023							
4	RAW WATER	Jan	147.87	146.94	155.13	142.82	144.27	146.45	131.90	137.80	121.102	123.45	142.62	122.52							J
5	Reported as	Feb	135.23	143.54	145.22	125.47	130.61	122.68	118.61	122.90	118.104	113.15	127.68	109.33							F
6	"Total Water	Mar	145.72	144.13	159.15	141.92	145.14	135.57	131.08	135.90	123.235	124.96	130.23	125.42							M
7	Treated" in	Apr	143.73	140.37	161.99	139.86	145.19	126.92	128.09	124.90	129.426	138.17	123.63	123.75							A
8	the Monthly	May	161.05	160.87	182.08	163.43	167.76	145.98	164.19	154.60	133.836	161.27	133.54	157.95							M
9	Operating	Jun	154.18	159.96	196.80	204.80	186.90	163.58	183.39	174.40	147.054	190.09	155.64	181.97							J
10	Report from	Jul	200.43	223.83	238.96	254.95	196.77	214.54	226.82	183.20	197.627	227.95	225.23	202.11							J
11	Thomas Daly	Aug	225.59	202.39	233.72	220.56	212.25	218.46	198.14	188.50	212.588	221.12	234.74	215.85							A
12	(in million	Sep	196.38	150.50	188.09	175.94	154.72	169.81	150.21	139.90	176.641	182.73	169.26								S
13	gallons)	Oct	166.79	144.46	147.58	160.45	136.64	137.50	134.69	124.70	130.999	146.19	137.86								O
14		Nov	143.09	151.19	136.59	135.29	127.41	129.64	121.80	119.00	120.762	128.85	120.22								N
15		Dec	148.76	160.29	140.45	143.62	135.97	135.49	133.40		124.460	138.66	125.53								D
16		Annual Total:	1,969	1,928	2,086	2,009	1,884	1,847	1,822	1,606	1,736	1,897	1,826	1,239							
18	WASH WATER	Jan	3,411	4338.00	0.48	0.53	0.07	0.02	0.07	0.05	0.068	0.286	0.00	0.21							J
19		Feb	3,031	0.26	1.54	0.26	0.39	0.05	0.05	0.52	0.005	0.017	0.21	0.00							F
20	Reported as	Mar	3,338	0.02	0.17	0.01	0.37	0.06	0.05	0.10	0.068	0.250	0.26	0.21							M
21	"Water to	Apr	3,040	0.07	0.07	0.33	0.02	0.57	0.65	0.03	0.090	0.000	0.00	0.21							A
22	Waste" in the	May	3,504	0.07	0.06	0.20	0.07	0.03	0.02	0.02	0.247	0.193	0.00	0.00							M
23	Monthly	Jun	3,318	0.05	0.06	0.50	0.06	0.03	0.03	0.04	0.087	0.226	0.43	0.44							J
24	Operating	Jul	3,952	0.03	0.37	1.38	0.55	0.06	0.02	0.89	0.000	0.000	0.00	0.00							J
25	Report from	Aug	3,864	0.13	0.43	3.76	0.07	0.06	0.42	0.14	0.650	0.000	0.00	0.00							A
26	Thomas Daly (in	Sep	3,385	0.11	0.17	3.26	0.11	0.06	0.02	0.65	0.000	0.000	0.42								S
27	million	Oct	3,704	0.03	0.25	3.65	0.53	0.57	0.03	0.00	0.003	0.245	0.00	0.00							O
28	gallons)	Nov	3,591	0.08	0.25	0.16	0.07	0.05	0.03	0.00	0.000	0.221	0.00								N
29		Dec	3,527	0.21	0.42	0.09	0.03	0.05	0.04		0.230	0.000	0.21								D
30		Annual Total:	41,665	4,339	4	14	2.34	1.610	1.420	2.434	1.448	1.438	1.538	1.072							
32	WATER CONSUMPTION		2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2011-2015						
33															Average						
34	Longview	Jan	150,113	144,631	184,044	165,264	168,962	169,433	151,436	158,134	139,619	141,559	149,339	141,804	160,175	J					
35		Feb	131,992	168,377	171,945	144,239	150,062	141,169	135,647	138,515	131,338	149,577	129,032	123,004	149,577	F					
36	From Steven Coons'	Mar	148,762	161,601	180,391	159,779	163,976	147,919	148,695	152,567	140,268	135,728	138,400	143,590	159,226	M					
37	"RWTP Charges"	Apr	145,791	159,212	195,827	162,590	169,314	145,640	146,117	142,654	145,314	148,553	133,489	136,494	161,949	A					
38	report, calculated	May	161,606	188,788	213,298	190,816	194,568	166,766	185,970	167,391	147,853	166,992	133,736	178,111	181,389	M					
39	by taking total	Jun	151,341	183,054	230,485	233,535	206,194	182,188	203,626	192,733	165,929	192,086	155,567	175,252	190,383	J					
40	Flow in CCF and	Jul	199,499	254,584	277,053	287,221	226,587	243,169	254,332	201,646	206,129	226,722	206,610	163,900	244,846	J					
41	subtracting BHWS	Aug	225,344	229,233	267,935	252,716	240,232	239,976	246,018	213,372	224,956	207,996	234,479	238,224	238,589	A					
42	reported flows,	Sep	205,775	175,917	217,716	175,406	199,132	167,829	149,462	149,462	186,317	177,530	182,876	198,379	198,379	S					
43	also in CCF.	Oct	169,044	164,493	168,727	184,813	156,534	158,290	153,259	140,578	148,512	144,550	157,081	169,147	169,147	O					
44		Nov	141,727	178,118	158,661	156,162	144,308	159,312	133,136	133,577	134,246	142,123	131,678	155,925	155,925	N					
45		Dec	145,324	184,417	157,087	164,629	149,988	153,831	151,159	130,845	139,802	144,386	135,278	159,752	159,752	D					
46		Annual Total:	1,976,318	2,192,425	2,423,169	2,299,537	2,146,131	2,106,825	2,077,224	1,921,474	1,910,283	1,977,802	1,887,565	2,169,338	2,169,338						
48	BHWS	Jan	23,951	26,131	22,707	24,963	23,805	26,315	24,794	25,957	20624	23,090	23,694	21,695	24,613	J					
49		Feb	28,195	23,496	20,141	23,154	24,017	22,763	22,845	25,030	26537	22,845	22,798	23,142	24,116	F					
50	From Steve	Mar	23,404	31,059	32,149	29,927	29,553	33,232	26,468	29,011	24382	28,420	25,425	23,790	28,999	M					
51	Coons' "RWTP	Apr	24,958	28,355	20,644	23,947	24,763	23,265	24,245	24,407	27583	24,793	22,793	28,655	24,591	A					
52	Charges"	May	30,707	26,185	30,044	27,391	29,601	28,341	33,492	39,186	30732	33,201	27,502	33,040	28,076	M					
53	report, from	Jun	31,734	30,729	32,536	38,371	43,575	36,447	41,501	40,366	30537	36,339	29,329	35,899	34,035	J					
54	BHWS reported	Jul	40,969	44,614	41,918	51,753	35,721	43,549	48,851	42,134	73715	42,050	46,155	45,111	41,388	J					
55	flows, in CCF	Aug	47,463	41,168	43,950	37,103	43,411	51,982	43,523	37,932	41204	46,194	44,980	50,323	44,061	A					
56		Sep	32,046	25,139	33,514	33,067	30,676	27,791	39,952	26,831	33288	32,729	34,495	32,396	32,396	S					
57		Oct	27,881	28,598	28,238	24,798	25,419	24,759	26,758	26,122	23699	26515	27,215	26,786	26,786	O					
58		Nov	24,369	23,901	23,612	24,481	25,921	24,479	29,706	25,516	25864	24399	29,050	24,597	24,597	N					
59		Dec	27,550	29,594	30,119	27,243	31,737	27,226	27,067	29,397	24975	28315	31,247	28,518	28,518	D					
60		Annual Total:	363,227	358,969	359,572	366,198	368,199	370,149	389,202	371,889	383,140	368,275	364,683	362,176	362,176						
104																					
105																					
106																					
107																					
108									2018	2019	2020	2021	2022	2023				</			

REGIONAL WATER TREATMENT PLANT

TOTAL INFLUENT vs. EFFLUENT / 2017

Thursday, June 8, 2017

MONTH	2014		2015		2016		2017	
	Raw	Treated	Raw	Treated	Raw	Treated	Raw	Treated
January	207,359	206,751	190,913	190,227	192,861	192,767	195,775	195,748
February	194,118	192,086	167,722	167,393	174,600	174,079	163,999	163,932
March	212,735	212,540	189,706	189,706	194,024	193,529	181,231	181,151
April	216,537	216,471	186,948	186,537	194,091	194,077	169,667	168,905
May	243,386	243,342	218,456	218,207	224,262	224,169	195,147	#REF!
June	263,068	263,021	273,759	271,906	249,849	249,769	218,675	210,529
July	319,424	318,971	340,798	338,974	263,043	262,308	286,798	279,616
August	312,421	311,885	294,827	289,819	283,737	283,643	292,039	283,525
September	251,426	251,230	235,182	230,840	206,831	206,082	227,003	251,114
October	197,272	196,965	214,477	209,611	182,661	181,953	183,811	186,081
November	182,576	182,273	180,845	180,643	170,322	170,229	173,303	184,071
December	187,737	187,206	191,980	191,872	181,765	181,725	181,124	178,310
TOTALS (ccf)	2,788,058	2,782,741	2,685,613	2,665,735	2,518,047	2,514,330	2,468,572	#REF!
AVG. MGD	5.71	5.70	5.50	5.46	5.16	5.15	15.39	#REF!
ACRE-FEET PER YEAR	6,400		6,165		5,781		5,667	



Cc: Jeff Cameron
 Jeff Coleman
 Dell Hillger

Total Influent vs. Effluent by Month / Page 1

REGIONAL WATER TREATMENT PLANT
WATER DELIVERED BY MONTH (CCF)

Prepared September 20, 2023
 Data current through August 31, 2023

TOTAL PRODUCTION

MONTH	2016	2017	2018	2019	2020	2021	2022	2023	2021 - 2022 Variance	2018 - 2022 Average
January	192,767	195,748	176,230	184,091	160,243	164,649	190,658	163,499	4,406	176,192
February	174,079	163,932	158,492	163,545	157,875	171,807	170,400	146,146	13,932	163,130
March	193,529	181,151	175,163	181,578	164,650	166,708	173,590	167,380	2,058	173,850
April	194,077	168,905	170,362	167,061	172,897	184,701	165,267	165,149	11,804	172,785
May	224,169	195,107	219,462	206,697	178,585	220,333	178,518	211,151	41,748	204,037
June	249,769	218,635	245,127	237,119	196,466	253,815	207,486	211,151	57,349	230,232
July	262,308	286,718	303,183	245,300	294,189	304,722	301,085	211,151	10,533	286,822
August	283,643	291,958	289,541	251,854	283,320	295,590	330,979	288,547	12,270	282,453
September	206,082	226,923	207,781	176,293	236,135	244,269	225,706		8,134	218,280
October	181,953	183,049	180,017	166,700	175,116	195,430	184,296		20,314	180,062
November	170,229	183,791	162,842	159,093	161,405	171,952	160,728		10,547	167,817
December	181,725	181,057	178,226	160,242	166,687	185,356	167,530		18,669	174,314
TOTALS	2,514,330	2,476,974	2,466,426	2,299,573	2,347,568	2,559,332	2,456,243	1,564,174	<i>211,764</i>	2,420,974
	<i>Projected End of Year Production (uses 5-year average for future months):</i>							2,304,647		
MGD	5.15	5.08	5.06	4.71	4.81	5.25	5.03	4.72	<i>(Projected)</i>	
Total Production, as a portion of previous years:									<i>(Projected)</i>	
	94.32%	98.51%	99.57%	93.24%	102.09%	109.02%	95.97%	93.83%		

REGIONAL WATER TREATMENT PLANT
WATER DELIVERED BY MONTH (CCF)

Prepared September 20, 2023
Data current through August 31, 2023

CITY OF LONGVIEW

MONTH	2016	2017	2018	2019	2020	2021	2022	2023	2021 - 2022 Variance	2018 - 2022 Average
January	168,962	169,433	151,436	158,134	139,619	141,559	149,339	141,804	1,940	152,036
February	150,062	141,169	135,647	138,515	131,338	149,577	129,032	123,004	18,239	139,249
March	163,976	147,919	148,695	152,567	140,268	135,728	138,400	143,590	(4,540)	145,035
April	169,314	145,640	146,117	142,654	145,314	148,553	133,489	136,494	3,239	145,656
May	194,568	166,766	185,970	167,391	147,853	166,992	133,736	178,111	19,139	166,994
June	206,194	182,188	203,626	192,733	165,929	192,086	155,567	175,252	26,157	187,312
July	226,587	243,169	254,332	201,646	206,129	226,722	206,610	163,900	20,593	226,400
August	240,232	239,976	246,018	213,372	224,956	207,996	234,479	238,224	(16,960)	226,464
September	175,406	199,132	167,829	149,462	186,317	177,530	182,876		(8,787)	176,054
October	156,534	158,290	153,259	140,578	148,512	144,550	157,081		(3,962)	149,038
November	144,308	159,312	133,136	133,577	134,246	142,123	131,678		7,877	140,479
December	149,988	153,831	151,159	130,845	139,802	144,386	135,278		4,584	144,005
TOTALS	2,146,131	2,106,825	2,077,224	1,921,474	1,910,283	1,977,802	1,887,565	1,300,379	67,519	2,157,429
<i>Projected End of Year Production (uses 5-year average for future months):</i>								1,909,954		
MGD	4.40	4.32	4.26	3.94	3.92	4.05	3.87	3.91	<i>(Projected)</i>	
Longview Consumption as a percentage of Total Production:										
	85.4%	85.1%	84.2%	83.6%	81.4%	77.3%	76.8%	82.87%	<i>(Projected)</i>	
Longview Consumption, as a percentage of previous years:										
	93.3%	98.2%	98.6%	92.5%	99.4%	103.5%	95.4%	101.2%	<i>(Projected)</i>	

BEACON HILL WATER & SEWER DISTRICT

MONTH	2016	2017	2018	2019	2020	2021	2022	2023	2021 - 2022 Variance	2018 - 2022 Average
January	23,805	26,315	24,794	25,957	20,624	23,090	23,694	21,695	2,466	24,156
February	24,017	22,763	22,845	25,030	26,537	22,230	22,798	23,142	(4,307)	23,881
March	29,553	33,232	26,468	29,011	24,382	28,420	25,425	23,790	4,038	28,303
April	24,763	23,265	24,245	24,407	27,583	24,793	22,793	28,655	(2,790)	24,859
May	29,601	28,341	33,492	39,186	30,732	33,201	27,502	33,040	2,469	32,990
June	43,575	36,447	41,501	40,366	30,537	36,339	29,329	35,899	5,802	37,038
July	35,721	43,549	48,851	42,134	73,715	42,050	46,155	45,111	(31,665)	50,060
August	43,411	51,982	43,523	37,932	41,204	46,194	44,980	50,323	4,990	44,167
September	30,676	27,791	39,952	26,831	33,288	32,729	34,495		(559)	32,118
October	25,419	24,759	26,758	26,122	23,699	26,515	27,215		2,816	25,571
November	25,921	24,479	29,706	25,516	25,864	24,399	29,050		(1,465)	25,993
December	31,737	27,226	27,067	29,397	24,975	28,315	31,247		3,340	27,396
TOTALS	368,199	370,149	389,202	371,889	383,140	368,275	364,683	261,655	<i>(14,865)</i>	376,516
<i>Projected End of Year Production (uses 5-year average for future months):</i>								372,733		
MGD	0.75	0.76	0.80	0.76	0.79	0.75	0.75	0.76	<i>(Projected)</i>	
BHWS D Consumption as a percentage of Total Production:										
	14.6%	14.9%	15.8%	16.2%	16.3%	14.4%	14.8%	16.17%	<i>(Projected)</i>	
BHWS D Consumption, as a percentage of previous years:										
	100.5%	100.5%	105.1%	95.6%	103.0%	96.1%	99.0%	101.2%	<i>(Projected)</i>	

REGIONAL WATER TREATMENT PLANT
 WATER DELIVERED BY MONTH (CCF)

Prepared September 20, 2023
 Data current through August 31, 2023

NOTE: City of Kelso water purchases fell to nearly zero for 2023. Data are too limited for meaningful averages or projections at this time.

CITY OF KELSO

MONTH	2016	2017	2018	2019	2020	2021	2022	2023	2021 - 2022 Variance	2018 - 2022 Average
January							17,625			
February							18,570			
March						2,560	9,765		2,560	853
April						11,355	8,985		11,355	3,785
May				120		20,140	17,280		20,140	6,753
June				4,020		25,390	22,590		25,390	9,803
July				1,520	14,345	35,950	48,320	2,140	21,605	17,272
August				550	17,160	41,400	51,520		24,240	19,703
September					16,530	34,010	8,335		17,480	16,847
October					2,905	24,365			21,460	9,090
November					1,295	5,430			4,135	2,242
December					1,910	12,655	1,005		10,745	4,855
TOTALS	N/A	N/A	N/A	6,210	54,145	213,255	203,995	2,140	159,110	91,203
										<i>See note at top of page: (Projected - see Note)</i>
MGD	N/A	N/A	N/A	0.01	0.11	0.44	0.42			<i>(Projected - see Note)</i>
City of Kelso Consumption as a percentage of Total Production:										<i>(Projected - see Note)</i>
	N/A	N/A	N/A	0.270%	2.306%	8.332%	8.305%			<i>(Projected - see Note)</i>
City of Kelso Consumption, as a percentage of previous years:										<i>(Projected - see Note)</i>
	N/A	N/A	N/A	N/A	871.9%	393.9%	95.7%			<i>(Projected - see Note)</i>
										<i>City of Kelso, Annual Consumption (2021): 1,086,000 ccf</i>
City of Kelso Water Purchases from Longview, as a percentage of their total consumption:										
	N/A	N/A	N/A	0.6%	5.0%	19.6%	18.8%			

Cost of Water Produced (Combined)

2015	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
MONTHLY EXPENSE	\$86,617.00	\$92,007.00	\$83,199.00	\$67,853.00	\$95,337.00	\$68,444.00	\$70,162.00	\$97,793.00	\$74,734.00	\$77,818.00	\$73,054.00	\$85,200.00
WATER PRODUCED (CCF)	190,227	167,393	189,706	186,537	218,207	271,906	338,974	289,819	230,840	209,611	180,643	191,872
COST PER CCF	\$0.455	\$0.550	\$0.439	\$0.364	\$0.437	\$0.252	\$0.207	\$0.337	\$0.324	\$0.371	\$0.404	\$0.444
AVERAGE YEAR TO DATE	\$0.455	\$0.502	\$0.481	\$0.452	\$0.449	\$0.416	\$0.386	\$0.380	\$0.374	\$0.374	\$0.376	\$0.382
WHOLESALE WATER RATE	\$0.460	\$0.460	\$0.460	\$0.460	\$0.460	\$0.460	\$0.460	\$0.460	\$0.460	\$0.460	\$0.460	\$0.460

DETAILED CONSUMPTION DATA

CITY 1991	CCF	215,862	198,081	221,171	212,142	222,814	229,459	327,066	320,827	279,669	248,982	199,505	212,093
CITY 1992	CCF	208,237	200,271	210,010	198,056	267,807	304,204	326,504	317,024	240,807	216,419	194,486	201,076
CITY 1993	CCF	213,945	187,782	206,232	194,047	209,278	222,180	238,672	285,903	285,474	221,189	197,673	205,286
CITY 1994	CCF	198,714	178,917	207,044	197,654	210,962	224,208	341,470	291,859	245,113	233,150	192,049	188,941
CITY 1995	CCF	186,326	174,007	187,526	185,336	229,638	256,567	293,524	287,329	244,504	223,780	191,478	191,686
CITY 1996	CCF	183,462	186,167	196,409	189,124	194,172	246,922	382,431	350,092	227,889	257,509	176,891	193,630
CITY 1997	CCF	198,401	174,403	186,982	180,295	218,730	214,787	270,279	308,041	220,667	203,088	210,788	220,642
CITY 1998	CCF	211,269	180,479	190,083	193,879	203,891	236,814	313,940	327,352	266,298	205,418	191,401	216,256
CITY 1999	CCF	192,417	180,342	191,519	190,146	214,425	236,138	313,126	312,263	268,283	225,194	195,776	201,950
CITY 2000	CCF	217,049	237,257	195,627	190,446	212,437	231,182	288,736	275,562	218,377	193,945	179,198	189,257
CITY 2001	CCF	178,980	162,806	187,707	176,652	204,119	209,257	254,470	256,387	229,133	194,415	172,334	181,378
CITY 2002	CCF	183,433	162,484	181,307	175,070	184,413	223,661	272,957	287,529	231,846	196,021	172,938	170,183
CITY 2003	CCF	179,909	147,938	173,347	166,418	172,457	260,329	307,843	283,403	228,870	190,455	164,880	165,048
CITY 2004	CCF	175,829	161,407	169,003	172,611	191,599	225,527	307,982	261,299	187,376	179,592	157,205	166,064
CITY 2005	CCF	166,450	147,518	169,215	165,343	180,742	193,933	265,472	287,232	219,196	179,247	166,100	175,798
CITY 2006	CCF	169,339	155,547	163,911	169,457	217,728	212,026	279,609	280,831	227,719	193,650	166,005	177,905
CITY 2007	CCF	180,274	145,902	165,353	167,739	195,890	247,408	272,755	246,856	184,347	172,081	163,276	166,489
CITY 2008	CCF	169,336	157,333	158,895	163,762	182,391	196,259	272,034	241,565	213,941	188,274	161,504	164,967
CITY 2009	CCF	155,719	131,317	148,297	150,700	186,547	209,928	262,027	242,325	185,035	157,225	146,816	173,431
CITY 2010	CCF	152,179	136,191	143,637	149,872	157,910	161,212	224,570	240,015	169,182	159,717	150,080	149,467
CITY 2011	CCF	156,824	131,333	145,597	146,325	152,436	153,502	205,871	217,719	194,714	158,658	144,958	147,304
CITY 2012	CCF	150,113	131,992	148,762	145,791	161,606	151,341	199,499	225,344	205,775	169,044	141,727	145,324
CITY 2013	CCF	144,631	168,377	161,601	159,212	188,788	183,054	254,584	229,233	175,917	164,493	178,118	184,417
CITY 2014	CCF	184,044	171,945	180,391	195,827	213,298	230,485	277,053	267,935	217,716	168,727	158,661	157,087
CITY 2015	CCF	165,264	144,239	159,779	162,590	190,816	233,535	287,221	252,716	197,773	184,813	156,162	164,629

PERCENT of PREVIOUS YEAR	96%	128%	109%	109%	85%	77%	86%	99%	91%	102%	102%	86%	
PUD 1991	CCF	39,205	30,045	30,118	34,354	31,881	31,892	49,331	46,674	40,571	36,342	32,286	29,577
PUD 1992	CCF	31,727	29,213	33,356	32,230	40,137	51,595	45,255	56,961	37,813	33,951	31,969	32,042
PUD 1993	CCF	31,873	29,442	34,894	30,013	34,082	30,697	33,858	42,839	40,947	30,718	32,771	29,664
PUD 1994	CCF	28,938	30,564	31,309	30,413	38,488	44,846	45,659	54,645	36,665	32,481	28,896	31,087
PUD 1995	CCF	30,105	27,540	30,971	27,224	45,555	41,796	62,553	40,193	31,190	31,834	20,047	33,619
PUD 1996	CCF	27,875	29,671	32,288	27,820	30,895	39,575	55,377	50,961	39,361	31,773	31,209	28,853
PUD 1997	CCF	31,499	32,208	31,546	29,144	37,526	31,738	51,698	46,132	30,142	26,743	27,648	29,265
PUD 1998	CCF	29,265	20,562	23,989	24,118	31,178	15,602	53,757	59,677	47,356	31,782	31,019	31,961
PUD 1999	CCF	31,412	28,399	30,366	33,595	32,400	37,395	52,598	50,214	43,674	37,557	32,772	32,708
PUD 2000	CCF	34,499	32,816	36,412	33,229	33,872	55,934	53,832	60,777	31,851	36,535	32,200	29,545
PUD 2001	CCF	33,538	29,118	31,352	33,465	39,798	41,545	50,022	53,105	38,701	33,687	38,923	34,678
PUD 2002	CCF	24,522	27,623	30,565	30,104	36,429	39,548	58,166	48,273	38,582	27,535	26,795	31,354
PUD 2003	CCF	30,372	29,268	22,843	29,010	43,546	41,944	79,590	49,552	33,028	31,363	30,962	30,259
PUD 2004	CCF	32,339	30,037	33,925	37,817	33,067	43,377	63,916	55,345	37,905	32,641	34,800	33,989
PUD 2005	CCF	33,283	29,568	30,424	31,542	32,306	38,754	47,763	65,736	39,026	31,996	30,865	33,493
PUD 2006	CCF	28,027	27,635	33,896	29,393	37,767	48,696	54,736	57,124	44,982	32,366	36,442	28,098
PUD 2007	CCF	30,876	30,876	28,885	30,202	37,145	44,664	47,165	45,885	41,709	30,366	28,769	29,941
PUD 2008	CCF	30,731	27,627	29,781	27,976	34,882	42,377	49,303	47,085	35,471	29,774	31,197	37,346
PUD 2009	CCF	27,048	25,795	25,607	32,014	34,135	41,275	60,968	44,988	33,160	31,933	27,449	33,949
PUD 2010	CCF	25,989	22,272	37,031	27,160	27,972	30,579	48,612	46,683	34,267	25,256	27,086	29,784

PUD 2011	CCF	25,315	25,592	28,454	25,052	26,053	36,805	27,685	50,623	38,214	24,417	26,620	28,084
BHWS D 2012	CCF	23,951	28,195	23,404	24,958	30,707	31,734	40,969	47,463	32,046	27,881	24,369	27,550
BHWS D 2013	CCF	26,131	23,496	31,059	28,355	26,185	30,729	44,614	41,168	25,139	28,598	23,901	29,594
BHWS D 2014	CCF	22,707	20,141	32,149	20,644	30,044	32,536	41,918	43,950	33,514	28,238	23,612	30,119
BHWS D 2015	CCF	24,963	23,154	29,927	23,947	27,391	38,371	51,753	37,103	33,067	24,798	24,481	27,243

PERCENT of PREVIOUS YEAR		109%	83%	133%	114%	82%	74%	80%	104%	103%	79%	99%	88%
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249,450.00
1,173,598
193,661.00
188,124.00 103%

REVENUE AND EXPENSE ACTUALS
FOR 1992 PROJECTIONS

1991 ACTUALS	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!
	118,883.14	131,603.43	241,705.57	172,007.95	157,282.90	164,049.56	181,273.20	151,473.57	184,853.51	169,777.81	155,497.29	161,192.25	161,192.25
	0.06	0.07	0.12	0.09	0.08	0.08	0.09	0.08	0.09	0.09	0.08	0.08	0.08
1992 EXPENSE ACTUALS	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!
	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!
PERCENTAGES	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!

1991 REVENUE ACTUALS	171,443.21	154,126.69	202,488.88	211,395.62	216,958.44	127,957.90	204,696.15	182,148.62	243,777.26	228,825.59	217,430.96	200,168.03	200,168.03
	7.26%	6.53%	8.57%	8.95%	9.19%	5.42%	8.67%	7.71%	10.32%	9.69%	9.21%	8.48%	8.48%
1992 REVENUE ACTUALS	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!
	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!
PERCENTAGES	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!

90/91 COMPOSITES

EXP	5.47%	7.82%	11.18%	8.07%	7.76%	9.16%	7.72%	8.98%	9.27%	6.65%	9.00%	8.92%	8.92%
REV	6.38%	6.96%	8.29%	6.42%	7.74%	8.34%	10.88%	11.56%	9.73%	8.45%	7.54%	7.71%	7.71%

PRINT MACRO ALT A
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{APP2}/PRCRSEVGR~G{ESC}
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2,665,735

#REF!

#REF!

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3,341,150.00

#DIV/0!	#DIV/0!
#####	30,731.76

PROJECTED

ACTUAL

ROW TOTALS
1,989,600
#REF!

2,361,417
#REF!



PROJECTED

ACTUAL

CORKY'S PROJECTION>>>

BASE PROJECTION>>

REGIONAL WATER TREATMENT PLANT

ANNUAL PRODUCTION HISTORY

BEGIN TRACKING KELSO CONSUMPTION, IN CCF
 KELSO METER AT FISHERS LANE FROM COONS REPORT

	2018	2019	2020	2021
Jan	NOT TRACKED	0	0	0
Feb		0	0	0
Mar		0	0	2560
Apr		0	0	11355
May		120	0	20140
Jun		4020	0	25390
Jul		1520	14345	35950
Aug		550	17160	41400
Sep		0	16530	34010
Oct		0	2905	2900
Nov		0	1295	1300
Dec		0	1910	1900
ANNUAL SUM:		6210	54145	176905

133689.8396	1002673.797		
\$153,743.32	\$1,153,074.87		
\$80,213.90	\$601,604.28	\$551,470.59	



City of Longview

Agenda Summary

2023 - 2024

Attachments:

1. operating budget

Filter 2023
 Budget analysis by month

	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23
Filter Ops Budget	129,165	129,165	129,165	129,165	129,165	129,165	129,165	129,165	129,165	129,165	129,165	129,165
budget cumulative	129,165	258,330	387,495	516,660	645,825	774,990	904,155	1,033,320	1,162,485	1,291,650	1,420,815	1,549,980
Filter ops Expenditures	106,621	85,273	102,632	90,837	94,901	102,753	135,397					
expenditures cumulative	106,621	191,894	294,526	385,362	480,263	583,016	718,414					



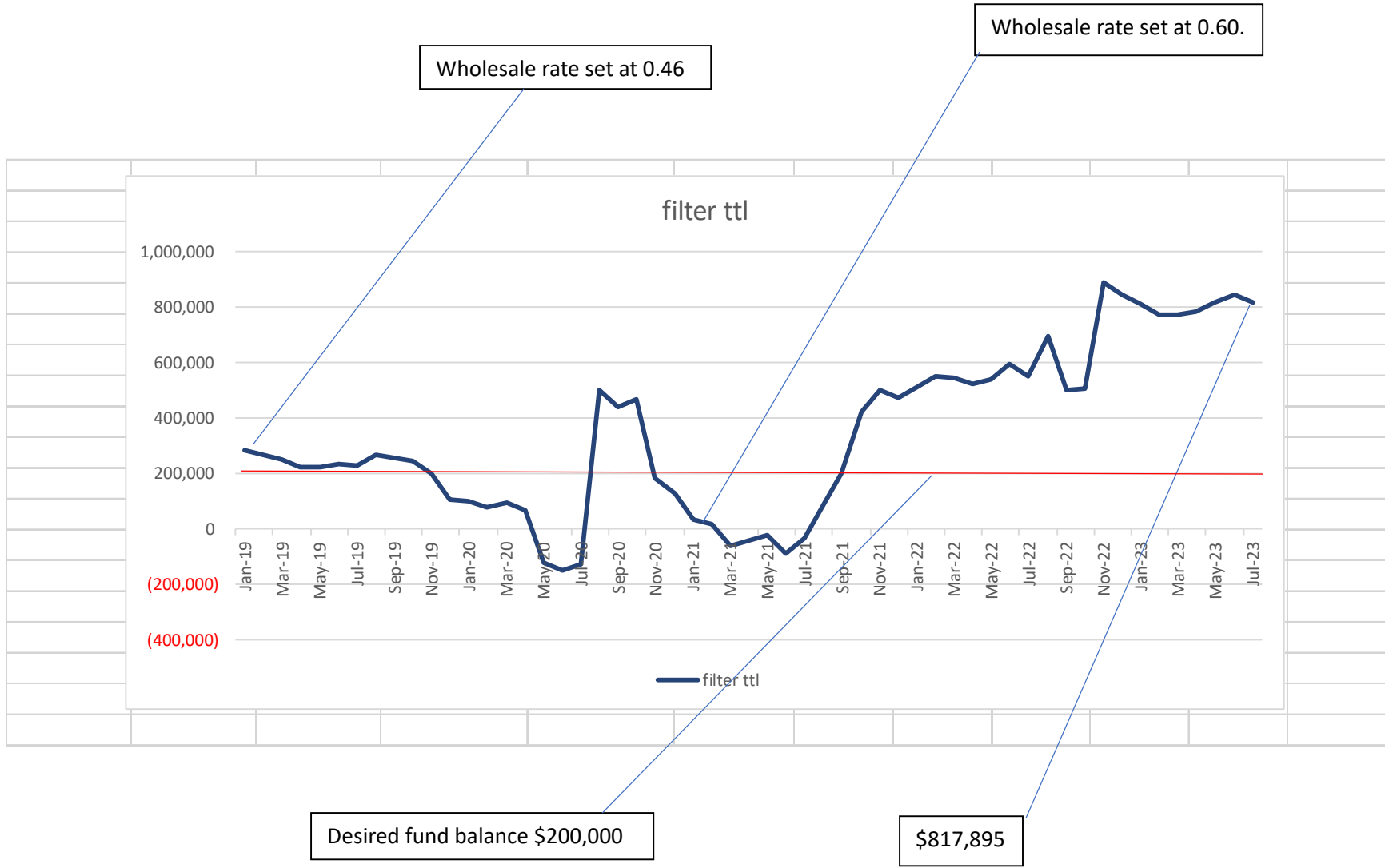
City of Longview

Agenda Summary

Wholesale water rate analysis and direction to staff

Attachments:

1. water rate trend





City of Longview

Agenda Summary

Project Updates:

- 1. Hypo tank**
- 2. Well house stabilization**
- 3. Equipment storage building**

Attachments:

1. Filter Plant Projects update 9_23

FILTER PLANT PROJECTS UPDATE

Ken Hash, PE

September 27, 2023



FILTER PLANT PROJECTS UPDATE

ADDITIONAL HYPOCHLORITE TANK

- Not yet started

PURCHASE LARGE LAWN MOWER

- Completed

PURCHASE SMALL FORKLIFT

- Projected to be here around the first of the year.

VEHICLE REPLACEMENT

- We have a service truck that is supposed to be replaced this year, but it has not been ordered yet due to the Ford not taking orders for Super Duty's.

MINT FARM RWTP PUMP REBUILDS

- We moved one pump/motor rebuild into 2023. Pump #1 has been rebuilt at a cost of \$42,000



FILTER PLANT PROJECTS UPDATE



Hypochlorite Tank \$200,000



Equipment storage building \$200,000

SCADA PLC - \$300,000

Mint Farm RWTP Pump
Rebuilds - \$90,000

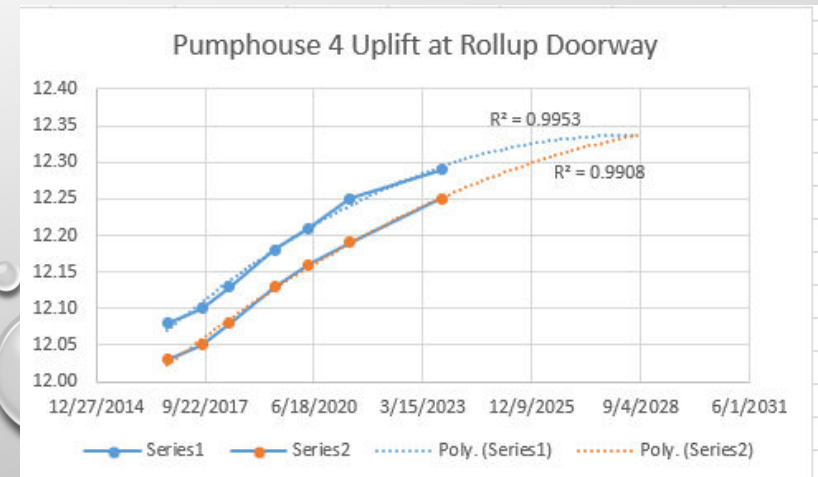
Well Flow Meters – meter inaccuracies and flow spikes

Protection of Electronic Components from Motor/Pump generated heat.

FILTER PLANT EMERGENT PROJECTS



Well house stabilization



REGIONAL WATER TREATMENT PLANT

PARTICIPANTS' AGREEMENT

between

CITY OF LONGVIEW

and

BEACON HILL WATER AND SEWER DISTRICT

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REGIONAL WATER TREATMENT PLANT
PARTICIPANTS' AGREEMENT

THIS AGREEMENT is made and entered into this _____ day of _____, 20__, by and between the CITY OF LONGVIEW, a municipal corporation, formed and existing under the laws of the State of Washington, hereinafter referred to as "Longview",

and

BEACON HILL WATER AND SEWER DISTRICT (BHWSO), a special purpose district, formed and existing under the laws of the State of Washington, hereinafter referred to as "District".

RECITALS

WHEREAS:

A. The public health, welfare and safety of the people in the Water Service Area of Longview and the District require ongoing operation, maintenance, improvement, and replacement of water treatment facilities and the preservation of water supply resources for the area.

B. On December 18, 1978, Longview and the Public Utility District No. 1 of Cowlitz County, Washington (Cowlitz PUD), entered into the Regional Water Treatment Plant Participants' Agreement to improve and expand Longview's existing water treatment facility to create a Regional Water Treatment Plant to provide water to serve the needs of Longview and the Cowlitz PUD; and created the Water Operating Board to oversee design, construction, operation, maintenance, and replacement of the Regional Water Treatment Plant. The Participants' Agreement was subsequently amended on April 25, 1994 and March 12, 2002.

C. In accordance with the Participants' Agreement, Longview's water treatment plant at 101 Fishers Lane, Longview, WA, was improved and expanded to create the Regional Water Treatment Plant, which withdrew surface water from the Cowlitz River and operated for many years providing potable water to Longview and Cowlitz PUD customers, with periodic purchases of water by the City of Kelso as allowed by the Participants' Agreement.

D. In October 2005, the updated Water System Plan for the Longview-Kelso Urban Area highlighted service life challenges for the Regional Water Treatment Plant, including continuing sediment deposition in the Cowlitz River from the Mount St. Helens eruption in 1980; aged and deteriorating facilities and equipment at the treatment plant; and increasing screening and dredging regulations due to threatened and endangered fish species in the Cowlitz River. Beginning in May 2006, at the direction of the Water Operating Board, Longview retained various consulting engineering firms and began evaluating options to upgrade or replace the treatment plant.

E. Effective November 20, 2007, Cowlitz PUD and the District entered into an agreement for the District to operate and maintain the Cowlitz PUD water supply and distribution system, exploring the potential for the District to acquire the Cowlitz PUD water system.

F. On May 8 and June 12, 2008, after considerable evaluation of water supply options and water quality testing, Longview, Cowlitz PUD, and the District, determined the preferred option would be to develop a groundwater supply and treatment facility at the Mint Farm Industrial Park in the city of Longview.

G. On March 16, 2009, Longview retained Kennedy/Jenks Consultants to provide preliminary design, permitting, final design, construction support services for the new Regional Water Treatment Plant.

H. On June 3, 2009, Longview and Cowlitz PUD entered into the Interlocal Agreement for Supplemental Financing of New Regional Water Treatment Facility and Groundwater Source, to provide for the Cowlitz PUD to secure a Public Works Trust Fund pre-construction loan on behalf of the Participants to assist with design costs for the new groundwater supply and treatment facility, and to guarantee repayment of the loan.

I. In accordance with the City of Longview Mint Farm Regional Water Treatment Plant Preliminary Design Report completed by Kennedy/Jenks Consultants in March 2010, Longview contracted to construct the new groundwater supply, treatment facility, and transmission main at the Mint

Farm Industrial Park on behalf of the Participants.

J. On December 28, 2010, the District acquired the Cowlitz PUD water supply and distribution system, including all rights, responsibilities, and obligations associated with the Participants' Agreement and construction of the new Regional Water Treatment Plant.

K. On January 31, 2013, the new Regional Water Treatment Plant at the Mint Farm Industrial Park was placed into service.

L. On November 14, 2016, Longview acquired from the District, the Fishers Lane Treatment Plant intake facility on the Cowlitz River to use as a source of flushing water to maintain water quality in Lake Sacajawea.

M. On August 23, 2018, Longview acquired from the District, all rights, responsibilities, obligations, and liabilities related to the remainder of the Fishers Lane Treatment Plant.

N. In order to continue operation, maintenance, and eventual replacement of Regional Water Treatment Plant facilities and provide potable water to their water service areas, Longview and the District desire to covenant and agree with each other relative to certain rights and duties.

NOW, THEREFORE, in consideration of the mutual covenants and agreements contained herein, it is hereby agreed as follows:

ARTICLE I
DEFINITION OF TERMS

The following words and phrases used in this Agreement shall have the following meaning:

1. "Regional Water Treatment Plant" and "RWTP" shall mean all of the facilities at the Mint Farm Industrial Park constructed, acquired, or used as part of the joint water treatment plant. The Regional Water Treatment Plant, as described in Exhibit A, attached hereto, shall include the water treatment plant, the groundwater wells and pumping stations at their present location at the Mint Farm, the treatment plant property, the 30-inch transmission main, and all water rights and regulatory permits, or as the same may hereafter be modified by mutual agreement.

2. "Participants" shall mean Longview and the District.
3. "Local Distribution Systems" shall mean all of the facilities owned or operated by the Participants for the local distribution of water to be delivered from the Regional Water Treatment Plant as provided in this Agreement.
4. "Purchasing Purveyor" shall mean any water utility, excluding the Participants, that purchases water from the Regional Water Treatment Plant for delivery to retail customers.
5. "Prudent Utility Practice" shall mean any of the practices, methods and acts, which, in the exercise of reasonable judgment in light of the facts (including but not limited to the practices, methods and acts engaged in or approved by a significant portion of the utility industry prior thereto) known at the time the decision was made, would have been expected to accomplish the desired result at the lowest reasonable cost consistent with reliability, safety and expedition.
8. "Water Service Area" shall mean the geographic representation of water service area responsibility for Longview and the District as set forth in their respective Water System Plans.

ARTICLE II
WATER OPERATING BOARD

The Participants have established a three (3) member Water Operating Board comprised of two representatives to be appointed by Longview and one (1) representative to be appointed by the District. Any salaries and expenses of the representatives of the Water Operating Board shall be paid by the Participant appointing said representatives.

The Water Operating Board shall be responsible for establishing and maintaining budgets, adopting rules and regulations for the use of the Regional Water Treatment Plant, including a 5-year projection of water treatment requirements, reviewing plant design, establishing rates as set forth under Article VI, and such other duties as may be appropriate. The intent of this provision is that the allocation

of costs as out lined in Article VI be the responsibility of the Water Operating Board. .

The Water Operating Board shall assure that adequate water rights are established in the name of the Participants for present and future needs of the Water Service Area.

In the event an action of the Water Operating Board is deemed by a Participant to not be a Prudent Utility Practice, said Participant shall have the right to call for arbitration of the matter by an impartial arbitrator. Actions submitted to arbitration shall be judged according to the terms of this Agreement and on the basis of whether the action is consistent with Prudent Utility Practice.

A Participant requesting arbitration must give written notice of such intent to the other Participant within one hundred and twenty (120) days after the date of the contested action. The Participants shall mutually agree upon an arbitrator within fifteen (15) days after notice of intent to arbitrate has been given. In the event of failure to agree on selection of an arbitrator, each party shall within five (5) calendar days submit a list of five names to the Presiding Judge of the Superior Court of the State of Washington for Cowlitz County with the request that he designate an arbitrator from such lists. The fee paid to the arbitrator shall be considered as an operation expense of the Regional Water Treatment Plant.

ARTICLE III
CONSTRUCTION AND ACQUISITION
OF THE REGIONAL WATER TREATMENT PLANT

The Regional Water Treatment Plant facilities were constructed on property acquired by and titled in the name of Longview, except that the 30-inch transmission main was constructed in an easement granted to Longview. In accordance with this Agreement, the Regional Water Treatment Plant and 30-inch transmission main, and the land and easements containing such facilities, shall be jointly owned by the Participants. Modifications may be made as to the location, type, and size of the water treatment plant so long as such modification is consistent with the intent and purposes of this Agreement, and is approved by the Participants. Both Participants shall have access to the Regional Water Treatment Plant at all reasonable times.

ARTICLE IV
RIGHTS AND RESPONSIBILITIES OF PARTICIPANTS

Water from the Regional Water Treatment Plant shall be provided to the Participants in accordance with the rules of the Water Operating Board and in accordance with all applicable federal, state, and local laws, regulations, and ordinances.

The Regional Water Treatment Plant shall not directly provide water to any person, firm or corporation or governmental agency that is located within the boundaries of the Water Service Area of any Participant without the written consent of both Participants.

To the extent that sufficient capacity exists in the Regional Water Treatment Plant in excess of that capacity required to meet the present and forecasted needs of the Participants, water may be sold within specified limits in amount and term, to Purchasing Purveyors. Sale of water to Purchasing Purveyors shall take place only upon mutual agreement of the Participants and charges for water sold shall be based on metered delivery at an established rate and at Points of Delivery set by the Water Operating Board.

Any Participant shall be prohibited from making a direct or indirect sale of water to a Purchasing Purveyor for use outside the Participants' Water Service Area without the written consent of the other Participant.

The Regional Water Treatment Plant shall be the principal source of supply for distribution to all water customers within the respective Water Service Areas of the Participants. In the event of an emergency, or if no pipelines connect from the Regional Water Treatment Plant to a segment of its Local Distribution System, or if a Participant is unable to negotiate satisfactory wheeling arrangements for delivery of water to a segment of its Local Distribution System, and an alternative source of water supply is available for that segment, said Participant shall have the right to utilize said other source of supply upon approval of the Water Operating Board; said approval will not be unreasonably withheld.

It shall be the responsibility of each Participant to maintain and operate its Local Distribution

System at standards not less than those required by applicable State and Federal regulatory agencies. Each Participant shall endeavor to make improvements to its Local Distribution System to reduce water loss through the system, and to design and construct reasonable and sufficient storage capacity, with the intent to conserve water as a natural resource and to reduce unnecessary treated water production requirements upon the Regional Water Treatment Plant.

In the event the Regional Water Treatment Plant is unable to produce water in volumes sufficient to meet the requirements of the Participants, it is agreed that the Participants shall share equally on a percentage basis in the curtailment of water deliveries, using the average Participant share of deliveries during the 12-month period preceding the decision that curtailment is necessary.

The Participants mutually agree on the right of one Participant to use the Local Distribution System of the other Participant in meeting its requirements to deliver water to customers within its service area. A Participant desiring to use any portion of the other Participant's facilities, as joint use shall make a written request indicating what facilities are to be used and anticipated volume requirements on the facilities. Such use shall be subject to the facilities' owner Participant determination that sufficient flow and pressure are available to meet the requested use without adversely affecting its customers.

A Participant using the other Participant's Local Distribution System shall pay an amount based on the reasonable and equitable costs of operation, maintenance, and capital recovery. The amount to be charged and other terms and conditions for the joint use of facilities shall be set forth by separate agreement.

ARTICLE V FINANCING OF CAPITAL REQUIREMENTS AND FUTURE CAPITAL ADDITIONS

Effective January 1, 2001, each Participant shall be responsible for paying its pro-rated share of the capital cost to rehabilitate, modify, improve, and expand the Regional Water Treatment Plant on the basis of actual historical water usage as shown in Exhibit C, attached hereto.

The proceeds of State and Federal grants received toward construction of the Regional Water Treatment Plant, shall be credited to each Participant's share of capital cost in the same proportions as the ratios calculated as shown in Exhibit C. The capital cost to be funded by the Participants will then be defined as the total cost of the plant, less proceeds of grants and other third party proceeds applied to the plant cost, with the remainder to be allocated according to the ratios calculated as shown in Exhibit C.

As design and construction work progresses, Longview shall give written notice to the District of progress payments required. The District shall, within fifteen (15) days of receiving said notice, make payment to Longview for its pro-rated share of the required progress payment.

Capital additions for the purpose of replacements, repairs, betterment, or expansion may be made upon the mutual agreement of the Participants, provided however, that Longview shall be authorized to make emergency repairs or replacements without prior consent of the Water Operating Board if necessary to preserve the physical integrity of the Regional Water Treatment Plant.

In order to provide that neither Participant shall require and utilize capacity in the Regional Water Treatment Plant that was paid for by the other Participant, it is agreed that a participant funding adjustment will be made annually to compensate for disproportionate use of the plant. The participant funding adjustment shall be calculated as shown in Exhibit D attached hereto, and incorporated herein by this reference. The participant funding adjustment will reflect a capital recovery payment to derive plant capital funding by each Participant at the end of each billing year equal to the actual accumulated consumption percentages as calculated in Exhibit C. For calculation purposes, plant capital is defined as the total audited assets of the Regional Water Treatment Plant as reported by the City of Longview net of accumulated depreciation, less grants and other third party proceeds that have been applied to reduce the Participants' funding obligation.

The Participants recognize that over time the Regional Water Treatment Plant depreciates as the revenue producing assets consume their useful lives. It is agreed that the most equitable

method to fund plant use and capital additions is based on actual consumption volumes by each Participant under the accrual method of accounting. It is further agreed that, to identify plant value relative to Participant consumption volumes from which it was acquired, the costing assumption of an average 25-year plant life will be used in the Participant funding adjustment as the term for accumulating consumption ratios as shown in Exhibit C. Annually, Longview shall calculate the Participant funding adjustment and deliver such on a separate statement to each Participant. The Participant utilizing more than its previous year Exhibit C share shall process payment of the adjustment without unnecessary delay.

The Participants may establish a system development charge (SDC) for new connections that require water service from the Regional Water Treatment Plant. The amount of these charges shall be calculated as a function of equivalent residential units (ERU's) per meter size to recover the cost of new development's use of existing surplus capacity or an expansion of the Regional Water Treatment Plant, and will be uniform throughout the service area. The Water Operating Board agrees to perform a study to help establish a SDC for new connections. In the event that an SDC is not approved by one or both of the participants, future improvements will be funded by mutual agreement based on the current proportional flow methodology.

Each Participant retains the option of remitting to the Water Operating Board an amount equal to that which would have been collected through system development charges if that Participant chooses not to apply the charge for new connections to its customers. Moneys collected by the Participants under this system development charge provision shall be remitted to the City of Longview on a monthly basis. The system development charge for new connections that are established in stages or phases may be paid as each stage or phase is developed. These moneys will be placed into a separate cumulative Fund and used only for those capital items eligible for this Fund under in this Article. For purposes of calculating the Capital Participation Funding Adjustment as outlined in Exhibit D, these moneys will be excluded (unless otherwise agreed by the Participants) until such time as they are applied to the cost of plant expansion. At that time,

these moneys will be included as nonparticipant funding in the adjustment to current capital financed.

ARTICLE VI
DETERMINATION OF RATES AND ACCOUNTING PROCEDURES

Participants shall be entitled to receive water from the Regional Water Treatment Plant at a single rate to be determined by the Water Operating Board in accordance with the formula and criteria set forth herein.

The rate for water delivered from the plant to Participants shall be based on the cost of operating and maintaining the Regional Water Treatment Plant. The rate shall not include interest and depreciation expense since each Participant shall be responsible for separately funding its share of the cost of, expansion, enhancements, renewals, and replacements.

Income to meet the budget requirements for the Regional Water Treatment Plant shall consist of all funds received into the operating fund of the Regional Water Treatment Plant, including, but not limited to, revenues paid by the Participants for volumes of water used, interest earned on the investment of treatment plant reserve funds, and revenues resulting from the sale of treated water to other purveyors pursuant to Article IV.

Monthly charges to each Participant shall be based on the actual metered volume of water delivered. A statement showing the amount of water delivered to each Participant shall be presented monthly by Longview to the District on or before the tenth day of each month. The Participants shall make payment into the fund for operation of the treatment plant for their share of the water delivery on or before the last day of such month. If either Participant fails to make said payment within a period of fifteen (15) days following its due date, said Participant shall be

charged with and shall pay into the treatment plant operating fund, interest on the amount unpaid at the rate of eight percent (8%) per annum.

The Water Operating Board shall annually review the rate for water delivered to the Participants. Factors to be considered when reviewing the rate shall include, but not be limited to, the adequacy of the rate to produce revenues sufficient to meet the projected operating and maintenance expenses, and the maintaining of an adequate and reasonable reserve fund for working capital and unforeseen contingencies.

Permanent books and records shall be kept by Longview on the volume of water delivered to the Participants at metering points established by the Participants. Such books and records shall be available to the Water Operating Board. In addition, the Water Operating Board shall have the right to audit and review all books of accounts that shall show all costs incurred in connection with the operation of the Regional Water Treatment Plant, including both revenues and expenditures. Such records shall show a complete accounting of all amounts billed to each of the Participants based on metered volumes of water used.

By August 31 of each year, Longview shall provide to the Water Operating Board a comprehensive financial statement for the previous calendar year and preliminary budget projections for the balance of the current year and the next year. The Water Operating Board shall then prepare and approve a final budget and recommend a rate for water delivered to the Participants and Purchasing Purveyors by December 1 of each year.

It is intended that the participation ratio determined in Exhibit C reflect as nearly as possible the true utilization of the output of the treatment plant. However, in recognition of the fact that the relative positions of the Participants will change over time due to such things as the addition or the loss of a large customer or transfer of ownership of a portion of a Participant's

service area, it is agreed that if the provisions of this Agreement do not adequately accommodate such changes to the satisfaction of both Participants, the parties will modify this Agreement as required. In the event that continued participation in this Agreement without such modifications of terms will cause a detriment to either Participant, said Participant may at any time give written notice to the other Participant that it requests re-negotiation of all or any part of this Agreement. Each Participant shall upon such notice, forthwith commence and pursue, without any unnecessary delay, good faith negotiations for modification of this Agreement to eliminate such detriment. If such negotiations shall fail to result in such modifications, the party suffering detriment may call for arbitration of the matter following the procedures set forth in Article II.

ARTICLE VII
INSURANCE AND LIABILITY FOR DAMAGES

Each Participant shall secure and maintain with responsible insurers, all such insurance as is customarily maintained and available at reasonable cost with respect to water systems of like character owned and operated by them against loss of or damage to their Local Distribution System. The Water Operating Board shall provide insurance and liability coverage for the Regional Water Treatment Plant, the cost of such insurance to be a necessary cost of the operation of the Regional Water Treatment Plant.

Each Participant agrees to defend, indemnify, pay on behalf of, and hold the other Participant harmless for any claims, injuries, damages or losses solely the result of each such Participant's own negligence.

ARTICLE VIII
OPERATING PERSONNEL

Longview shall be responsible for a staff of employees to properly operate and maintain the Regional Water Treatment Plant. The number and classifications of personnel necessary for the operation

of the system shall be in accordance with State requirements, at a minimum, and shall be reviewed and approved by the Water Operating Board.

ARTICLE IX
DISSOLUTION OR TERMINATION

No party may terminate its obligations hereunder by dissolution or otherwise without first securing the written consent of the Participants. This Agreement shall be binding upon and inure to the benefits of the respective successors and assigns of the parties hereto, if any. In the event of assignment of this Agreement and the dissolution of one of the Participants, the remaining Participants assuming the responsibility for water service to the terminating party shall also be responsible for the debt service and other expenses of the Regional Water Treatment Plant that the terminating party had been paying based on the volume of water usage as provided herein.

ARTICLE X
EXECUTION AND TERM OF AGREEMENT

This Agreement shall be in full force and effect and binding upon all parties hereto upon its execution and it shall continue in full force and effect until termination upon mutual agreement of the Participants.

Whenever in this Agreement notice of written approval is required to be given, the same shall be given by registered or certified mail addressed to the respective offices at the following addresses:

City Manager
City of Longview
PO Box 128
Longview, WA 98632

General Manager
Beacon Hill Water and Sewer District
1121 West Side Hwy
Kelso, WA 98626

unless a different address shall be hereafter designated in writing by any of the parties. The date of giving such notice shall be deemed to be the date of mailing thereof.

This Agreement shall be executed in two counter parts, either of which shall be regarded for all purposes as the original. Both parties agree to execute any and all deeds, easements, leases, instruments, documents, resolutions or ordinances necessary to give effect to the terms of this Agreement.

ARTICLE XI
WAIVER AND EXISTING AGREEMENTS

No waiver by either party of any terms or conditions of this Agreement shall be deemed or construed as a waiver of any other terms or conditions, nor shall a waiver of any breach be deemed to constitute a waiver of any subsequent breach whether of the same or a different provision of this Agreement.

In addition to the remedies provided by law, this Agreement shall be specifically enforceable by any party hereto. The covenants in this Agreement made for the benefit of bondholders of any Participant may be enforceable by them.

This Agreement merges and supersedes all other negotiations, representations, Agreements, and amendments between the parties hereto relating to the subject matter hereof and constitutes the entire contract between the parties.

For: City of Longview:

City Manager

Attest:

City Clerk

Approved As To Form:

City Attorney

For: Beacon Hill Water & Sewer District:

General Manager

Approved As To Form:

District Attorney

EXHIBIT A

to

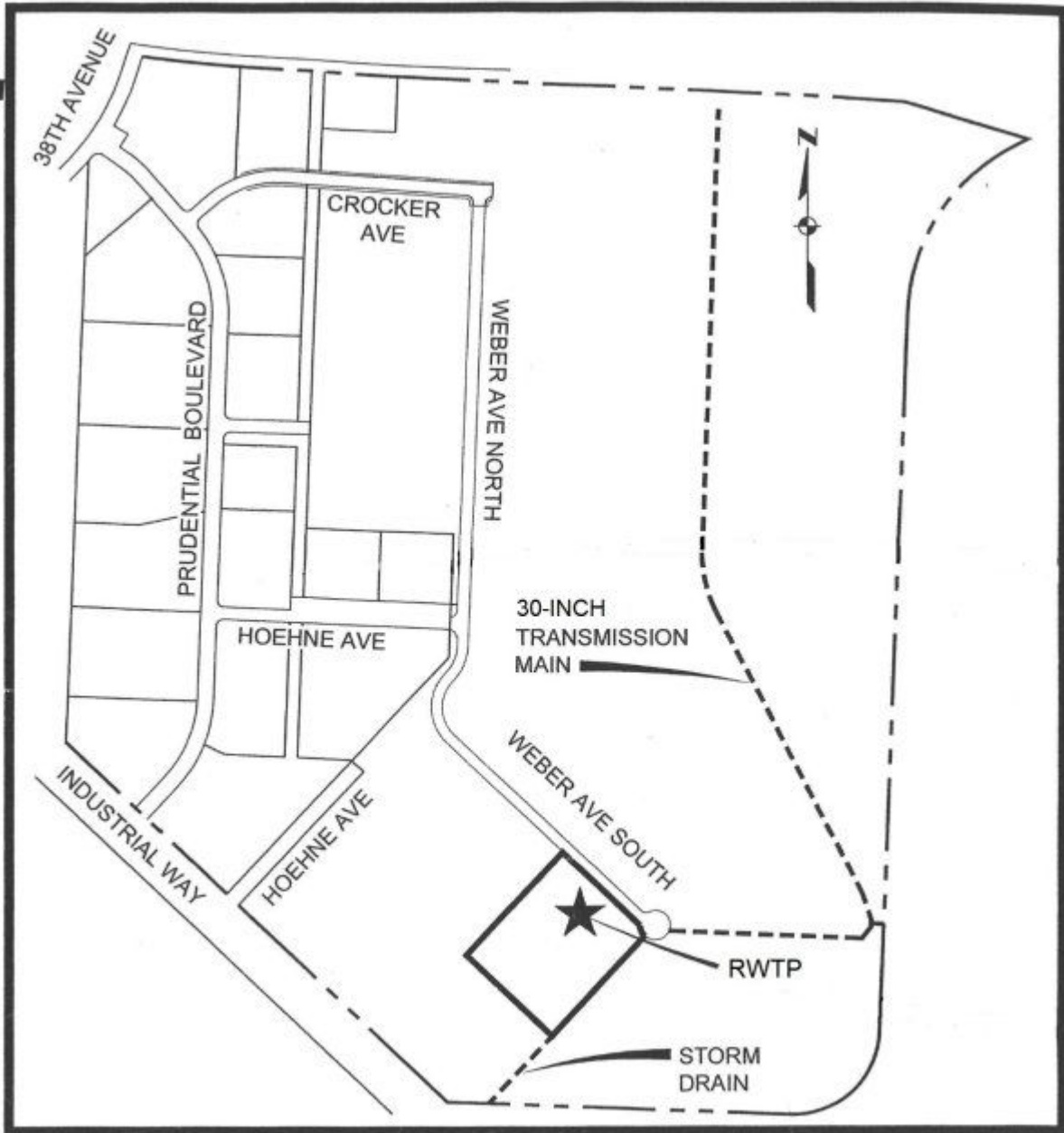
Regional Water Treatment Plant Participants' Agreement

Description of Regional Water Treatment Plant

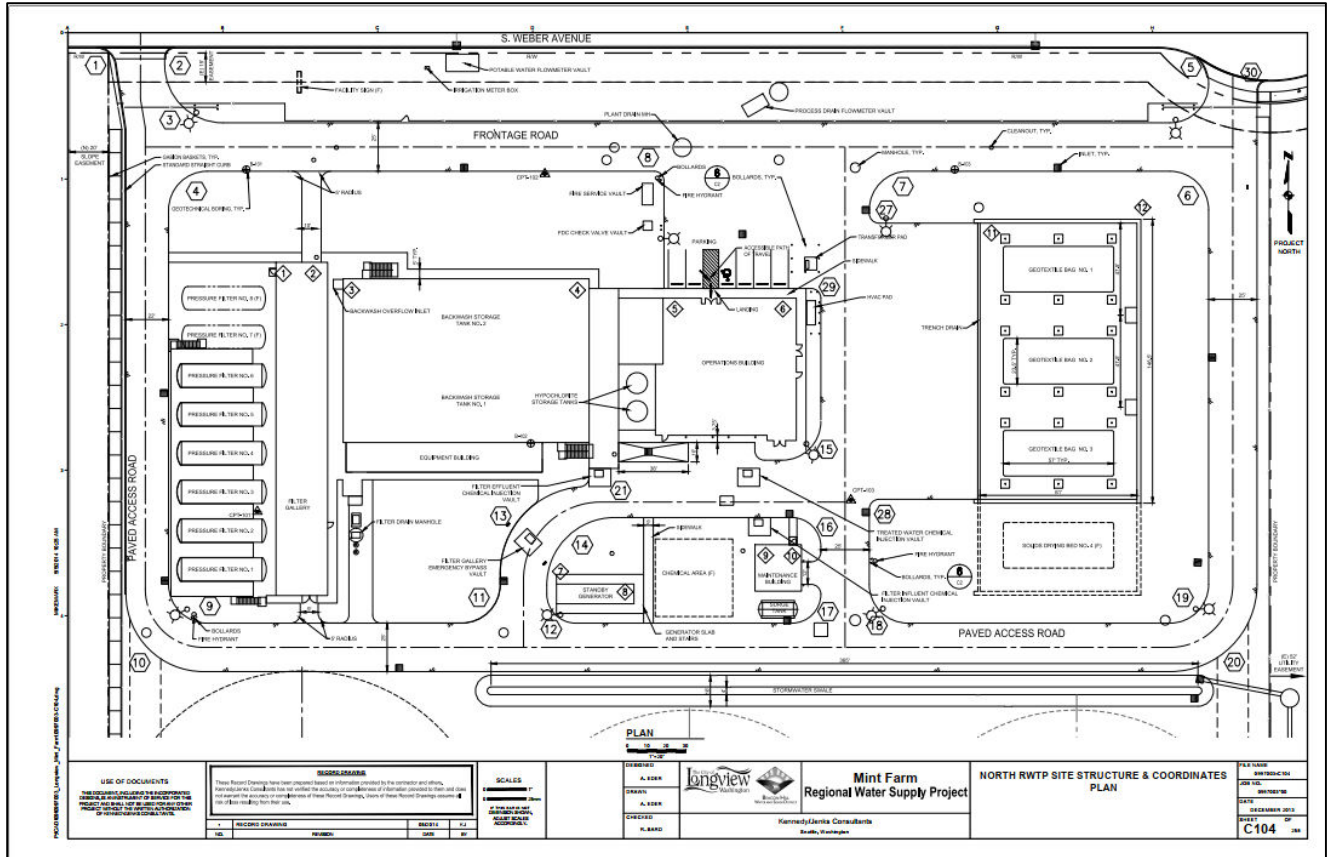
The Regional Water Treatment Plant shall consist of the existing regional water treatment plant and real property located in the Mint Farm Industrial Park at 1155 Weber Avenue, Longview (Parcel No. 101930306), together with the 30-inch transmission main connecting the treatment plant to Longview's 20-inch transmission main located adjacent to Consolidated Diking Improvement District No. 1 Ditch No. 12 at the north edge of the Mint Farm Industrial Park: all operating permits and water rights related to the municipal supply; as well as facilities to be added, constructed, rebuilt, renovated, acquired, or used as a part of the treatment plant. The Regional Water Treatment Plant as constructed and placed into service on January 2013 is depicted in Exhibit B. Additional facilities added to the treatment plant since January 2013, but not depicted in Exhibit B, such as air injection for dissolved oxygen addition, effluent flow meter, effluent diversion valve and discharge, etc., shall be considered to be part of the regional water treatment plant.

EXHIBIT B

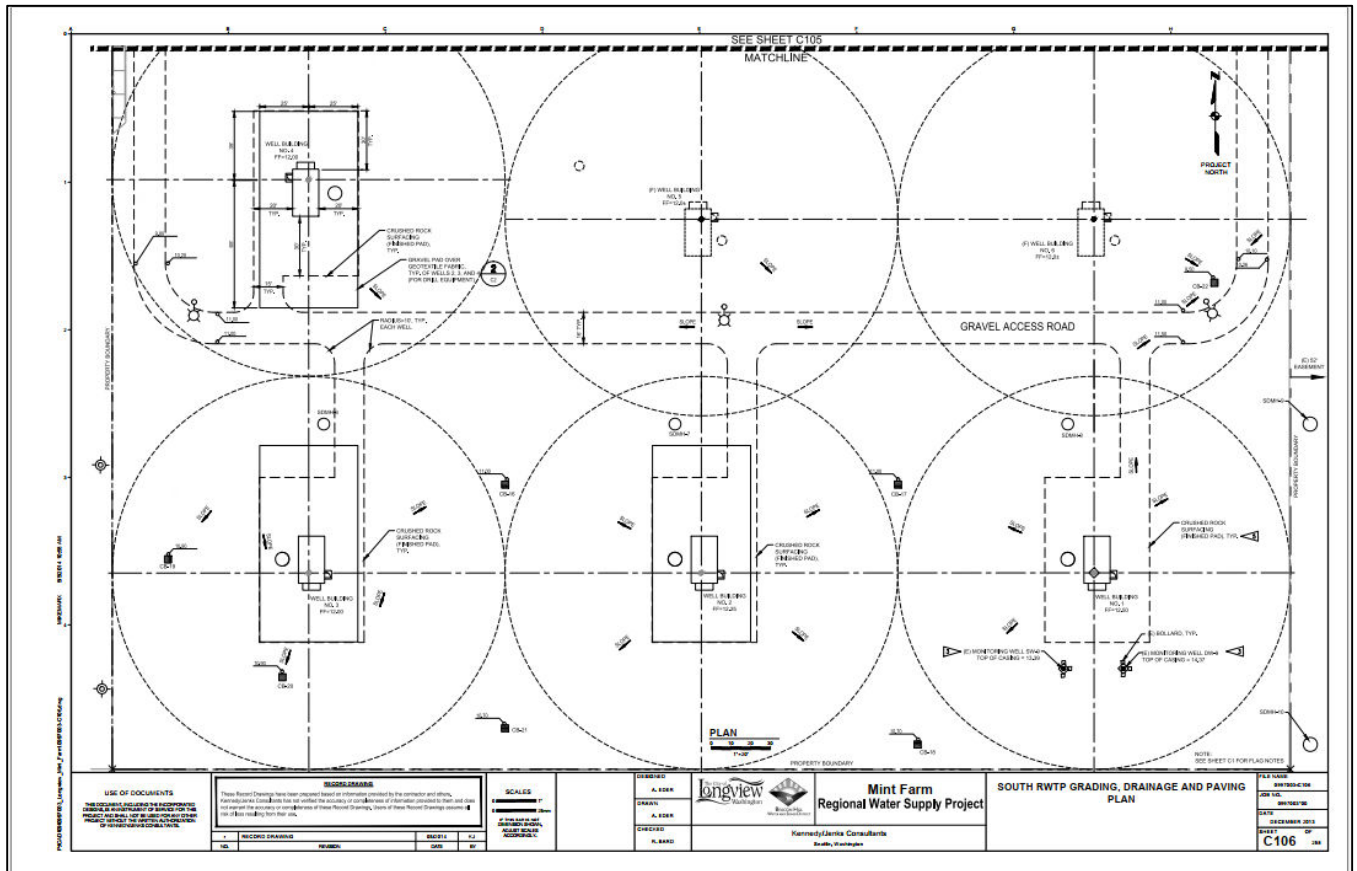
Regional Water Treatment Plant Participants' Agreement
Depiction of Regional Water Treatment Plant Facilities



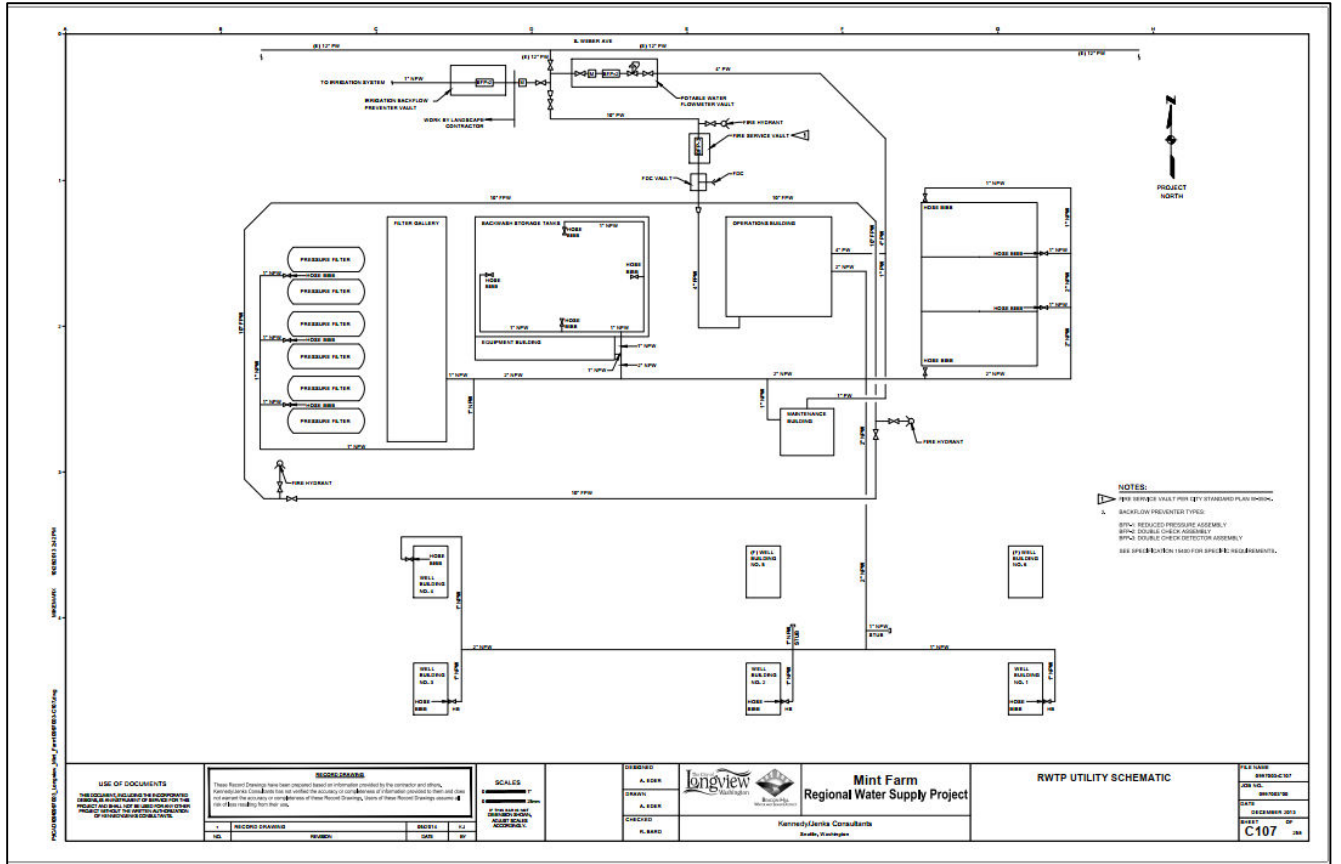
Vicinity Map



<p>USE OF DOCUMENTS</p> <p>These Record Drawings have been prepared for information only. They are not to be used for construction purposes. The Engineer and Designer are not responsible for any errors or omissions in these drawings. The user of these drawings is responsible for their accuracy and completeness. The user of these drawings is responsible for their accuracy and completeness. The user of these drawings is responsible for their accuracy and completeness.</p>	<p>RECORD DRAWING</p> <p>NO. 101</p>	<p>SCALE</p> <p>AS SHOWN</p>	<p>DESIGNER</p> <p>A. EBER</p>	<p>DRAWN</p> <p>A. EBER</p>	<p>CHECKED</p> <p>R. BARD</p>	<p>DATE</p> <p>NOVEMBER 2015</p>	<p>PROJECT</p> <p>Mint Farm Regional Water Supply Project</p>	<p>CLIENT</p> <p>Kennedy/Jeremie Consultants</p>	<p>PROJECT NORTH</p>	<p>PROJECT NUMBER</p> <p>C104</p>



<p>USE OF DOCUMENTS</p> <p>These Record Drawings have been prepared based on information provided by the contractor and others. The contractor shall be held responsible for the accuracy and completeness of information furnished. These drawings shall not be used for any purpose or combination of purposes other than that for which they were prepared. The contractor shall be held responsible for the accuracy and completeness of information furnished. These drawings shall not be used for any purpose or combination of purposes other than that for which they were prepared.</p>	<p>RECORD DRAWING</p> <p>These Record Drawings have been prepared based on information provided by the contractor and others. The contractor shall be held responsible for the accuracy and completeness of information furnished. These drawings shall not be used for any purpose or combination of purposes other than that for which they were prepared. The contractor shall be held responsible for the accuracy and completeness of information furnished. These drawings shall not be used for any purpose or combination of purposes other than that for which they were prepared.</p>	<p>SCALE</p> <p>AS SHOWN</p>	<p>DESIGNED</p> <p>A. TORR</p>		<p>Mint Farm Regional Water Supply Project</p>	<p>SOUTH RWTP GRADING, DRAINAGE AND PAVING PLAN</p>	<p>DATE</p> <p>12/10/2013</p>
			<p>DRAWN</p> <p>A. TORR</p>				<p>CHECKED</p> <p>K. BARD</p>
<p>PROJECT BOUNDARY</p>						<p>PROJECT SHEET C1 FOR PLAN NOTES</p>	
<p>PROJECT BOUNDARY</p>							<p>PROJECT SHEET C1 FOR PLAN NOTES</p>



<p>USE OF DOCUMENTS</p> <p>THESE DOCUMENTS INCLUDE THE RECOMMENDED PRACTICES FOR CONSTRUCTION OF THE PROJECT. THE USER SHALL BE RESPONSIBLE FOR THE PROPER INTERPRETATION AND APPLICATION OF THESE DOCUMENTS.</p>	<p>RECORD DRAWING</p> <p>These Record Drawings have been prepared based on information provided by the contractor and others. Kennedy/Jerrett Consultants has not verified the accuracy or completeness of this information and does not warrant the accuracy or completeness of these Record Drawings, items of these Record Drawings, or items of these Record Drawings resulting from their use.</p>	<p>SCALE</p> <p>AS SHOWN</p>	<p>DESIGNED:</p> <p>A. KERR</p>		<p>Mint Farm Regional Water Supply Project</p>	<p>RWTP UTILITY SCHEMATIC</p>	<p>FILE NUMBER:</p> <p>8877000-107</p>
			<p>DRAWN:</p> <p>A. KERR</p>				<p>CHECKED:</p> <p>R. BARD</p>

EXHIBIT C - 1

Regional Water Treatment Plant
Participant Consumption Distribution
As of December 31, 2022

Year	VOLUME DELIVERED (ccf)			CONSUMPTION PERCENTAGES			
	Total	BHWS D	City	ANNUAL		ACCUMULATED	
				BHWS D	City	BHWS D	City
1998	3,137,346	400,266	2,737,080	12.758%	87.242%	12.758%	87.242%
1999	3,161,044	438,190	2,722,854	13.862%	86.138%	13.312%	86.688%
2000	3,100,575	471,502	2,629,073	15.207%	84.793%	13.937%	86.063%
2001	2,863,676	457,749	2,405,927	15.985%	84.015%	14.415%	85.585%
2002	2,861,338	419,496	2,441,842	14.661%	85.339%	14.462%	85.538%
2003	2,892,634	451,737	2,440,897	15.617%	84.383%	14.647%	85.353%
2004	2,824,652	469,158	2,355,494	16.609%	83.391%	14.913%	85.087%
2005	2,761,002	444,756	2,316,246	16.108%	83.892%	15.053%	84.947%
2006	2,872,889	459,162	2,413,727	15.983%	84.017%	15.154%	84.846%
2007	2,734,853	421,706	2,313,147	15.420%	84.580%	15.179%	84.821%
2008	2,708,918	423,550	2,285,368	15.635%	84.365%	15.218%	84.782%
2009	2,567,688	418,321	2,149,367	16.292%	83.708%	15.298%	84.702%
2010	2,376,723	382,691	1,994,032	16.102%	83.898%	15.349%	84.651%
2011	2,318,155	362,914	1,955,241	15.655%	84.345%	15.367%	84.633%
2012	2,339,545	363,227	1,976,318	15.526%	84.474%	15.376%	84.624%
2013	2,550,654	358,966	2,191,688	14.073%	85.927%	15.301%	84.699%
2014	2,782,741	359,572	2,423,169	12.922%	87.078%	15.160%	84.840%
2015	2,665,734	366,198	2,299,536	13.737%	86.263%	15.083%	84.917%
2016	2,514,331	368,199	2,146,132	14.644%	85.356%	15.062%	84.938%
2017	2,476,232	369,239	2,106,993	14.911%	85.089%	15.055%	84.945%
2018	2,434,194	377,725	2,056,469	15.517%	84.483%	15.075%	84.925%
2019	2,288,203	366,229	1,921,974	16.005%	83.995%	15.111%	84.889%
2020	2,263,452	353,168	1,910,284	15.603%	84.397%	15.129%	84.871%
2021	2,320,506	368,275	1,952,231	15.870%	84.130%	15.156%	84.844%
2022	2,234,884	364,503	1,870,381	16.310%	83.690%	15.195%	84.805%
	<u>66,051,968</u>	<u>10,036,499</u>	<u>56,015,469</u>				

EXHIBIT D

Capital Participation Funding Adjustment

**Regional Water Treatment Plant
Calculation Formula**

Participant Percentages

	Consumption						Percentages			
	BHWSD	ID	City	ID	Total	ID	BHWSD	ID	City	ID
Beginning participation	A		B		(A+B)	1	(A/1)	7	B/1	
Current year deliveries	C		D		(C+D)	2	C/2		D/2	
Consumption retired	E		F		(E+F)	3	E/3		F/3	
Ending participation	(A+C-E)	4	(B+D-F)	5	(4+5)	6	(4/6)	8	5/6	

Minority Interest Participation Change

	ID
Beginning consumption percentage	7
Ending consumption percentage	8
PUD participation increase (decrease)	(8-7) 9

Calculation of Funding Adjustment

	ID
<u>Funding Adjustment to Beginning Net Capitalized Plant</u>	
Beginning net capitalized plant	G
BHWSD participation increase (decrease)	9
Funding Adjustment to Beginning Net Capitalized Plant	G*9 10

	ID
<u>Funding Adjustment to Current Capital Financed</u>	
Current capital financed	H
Nonparticipant funding	I
Participant current capital financed	H-I 11
BHWSD participation increase (decrease)	9
Funding Adjustment to Current Capital Financed	9*11 12

Capital Participation Funding Adjustment Due City (BHWSD)

10+12

LEGEND KEY

- A BHWSD cumulative consumption at the beginning of the reporting period.
- B City cumulative consumption at the beginning of the reporting period.
- C BHWSD consumption during the reporting period.
- D City consumption during the reporting period.
- E BHWSD consumption during the reporting period preceeding the average plant life.
- F City consumption during the reporting period preceeding the average plant life.
- G Total joint plant assets net of accumulated depreciation, less land, grants and other applied third party proceeds at the beginning of the reporting period.
- H Cost of total joint plant capital acquisitions during the reporting year.
- I Proceeds received from external parties and used to acquire current capital (H) .



City of Longview

Agenda Summary

- 1. General discussion of water treatment, distribution and Water Operating Board matters**
- 2. Direction to staff as appropriate**

Attachments: None