



22500 Salamo Road
West Linn, Oregon 97068
<http://westlinnoregon.gov>

UTILITY ADVISORY BOARD MEETING

Summary Notes

Tuesday, November 10, 2015

6:00 p.m. – Meeting – Bolton Conference Room

1. Call to Order and Introductions

- Called to Order by Bill at 6:03pm

Members Present: Alice Richmond (by phone), Bill Frazier, Edward Keonjian, Jon Miller, Amit Armstrong, Erik Miller

Staff/City Representatives Present: Richard Seals, Lance Calvert, Brenda Perry

2. Approval of October 2015 Summary Notes

- Motion to approve by Alice, seconded by Jon. Notes were approved unanimously.

3. 2015 Annual Citizen Advisory Board Report (Review of Alice's submission)

- Board reviewed prepared summary report and provided input. The Board came to consensus on accomplishments and challenges for 2015 and provided goals for 2016. Report was approved to be submitted by end of November as required.

4. Response from City Council regarding letters drafted by UAB members

- After review of archived meeting minutes, it was determined by the City Attorney that it was a 5% accrued increase.
- Discussed sidewalk encroachment into Wilderness Park. Determined that this is outside of UAB purview.

Meeting Notes:

The Council Chambers is equipped with an induction loop and a limited number of neck loops for the hearing impaired. Please let the City know if you require any special assistance under the Americans with Disabilities Act, please call City Hall 48 hours prior to the meeting date, 503-657-0331.

Please help us to accommodate citizens who are chemically sensitive to fragrances and other scented products. Thank you for not wearing perfume, aftershave, scented hand lotion, fragranced hair products, and/or similar products.

5. Continued discussion of water rate increase and weather trends

- General discussion by members of various rate increase scenarios.
- Richard discussed correlation between dry months and spiked revenues. He indicated that City may not need a voter approved rate increase, could wait another year. Board moved to table previous 18% rate increase recommendation until August 2016 for an updated recommendation. A motion was made by Jon and seconded by Amit. Motion passed unanimously.

6. Capital Project Update

- Lance stated that the pre-construction meeting for Bolton Reservoir has taken place and contractor is planning on moving aggressively starting with the water system improvements. Design, construction, and inspection costs are still well below industry norm of 15-20% (City is at less than 13% of construction costs).
- Design on the water main replacement along Kenthorpe is being handled by City staff. City Council is working on an amendment for LOT so that City staff can oversee complete street repaving of Mapleton and Kenthorpe. City will be reimbursed by LOT.
- Bolton Reservoir is anticipated to be out of service spring (2016) and back in service before summer of 2017.

7. Other Business

- Richard provided update on financing and bonds. City needs \$2 million in bonds for water fund reserves and will plan to sell in December and bond market is good right now.
- Lance stated that Water Supervisor Jim Whynot has tentatively accepted a position as Public Works Director for City of Gladstone and will be leaving the City of West Linn.
- Members discussed whether UAB makes decisions regarding sewer and Stormwater rate increases, etc. Staff indicated that this is typically handled by City Council unless UAB is requested by Council.

8. Adjournment

- Motion to adjourn by Ed and seconded by Erik.

Meeting Notes:

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Past Monthly Weather Data for Portland, OR [Oregon] ("Portland Kgw Tv") : JULY, 1973 - 2015

All months for this station: January February March April May June July August September October November December [Other Locations] Help

Year	Lowest Temperature (F)	Highest Temperature (F)	Warmest Minimum Temperature (F)	Coldest Maximum Temperature (F)	Average Minimum Temperature (F)	Average Maximum Temperature (F)	Mean Temperature (F)	Total Precipitation (In)	Total Snowfall (In)	Max 24hr Precipitation (In)	Max 24hr Snowfall (In)
2015	52	101	68	68	60.8	85.2	73.0	0.60	0.00	0.30	0.00
2014	54	98	64	67	59.7	82.6	71.2	0.92	0.00	0.50	0.00
2013	50	93	65	70	56.5	80.6	68.6	0.00	0.00	0.00	0.00
2012	48	87	61	67	56.4	76.8	66.6	0.51	0.00	0.37	0.00
2011	49	87	59	64	55.8	75.7	65.7	1.36	NR	0.82	NR
2010	49	98	65	64	55.9	78.5	67.2	0.30	0.00	0.19	0.00
2009	56	105	76	79	62.8	89.8	76.3	0.00	NR	0.00	NR
2008	NR	NR	NR	NR	NR	NR	NR	NR	0.00	NR	0.00
2007	NR	NR	NR	NR	NR	NR	NR	NR	0.00	NR	0.00
2006	51	104	77	63	58.8	81.9	70.4	0.19	0.00	0.19	0.00
2005	52	94	67	64	58.2	80.6	69.4	0.41	0.00	0.29	0.00
2004	53	102	72	72	59.3	82.4	70.8	0.00	0.00	0.00	0.00
2003	50	99	67	72	58.0	84.0	71.0	0.00	0.00	0.00	0.00
2002	49	100	64	70	57.8	81.9	69.9	0.19	0.00	0.10	0.00
2001	51	89	62	64	55.4	76.4	65.9	0.46	0.00	0.24	0.00
2000	49	91	65	65	57.3	78.1	68.0	0.25	0.00	0.23	0.00
1999	49	93	61	63	55.7	77.4	66.6	0.38	0.00	0.26	0.00
1998	55	100	70	63	60.4	80.4	70.4	0.34	0.00	0.20	0.00
1997	51	96	64	67	57.2	79.2	68.2	0.64	0.00	0.44	0.00
1996	47	98	69	60	59.3	83.2	71.2	0.49	0.00	0.28	0.00
1995	50	98	70	67	59.5	79.6	69.5	0.98	0.00	0.80	0.00
1994	49	101	69	64	57.0	82.3	69.6	0.07	0.00	0.06	0.00
1993	49	84	59	64	55.1	71.2	63.2	1.42	0.00	0.30	0.00
1992	55	101	71	66	59.6	81.7	70.7	0.45	0.00	0.20	0.00
1991	50	100	67	69	57.3	81.4	69.3	0.12	0.00	0.06	0.00
1990	50	98	69	67	58.8	82.3	70.5	1.10	0.00	0.64	0.00

	Annual Water revenues	Annual Amt of water purchased (ccf)	July Water Consumption	July Avg Max Temp
FY 2009	\$ 2,955,000	147,576,700	July 2009 240,548	89.8
FY 2010	\$ 2,908,000	141,185,800	July 2010 211,324	78.5
FY 2011	\$ 2,902,000	130,038,800	July 2011 172,794	75.7
FY 2012	\$ 3,152,123	126,779,500	July 2012 216,430	76.8
FY 2013	\$ 3,484,998	141,296,600	July 2013 199,211	80.6
FY 2014	\$ 3,592,104	132,120,400	July 2014 200,267	82.6
FY 2015	\$ 4,065,177	144,736,700	July 2015 244,155	85.2
FY 2016				
FY 2017				
FY 2018				
FY 2019				
FY 2020				

July Average Maximum Temperature
July 2009 89.8
July 2010 78.5
July 2011 75.7
July 2012 76.8
July 2013 80.6
July 2014 82.6
July 2015 85.2

City of West Linn
Water Fund
(amounts in thousands)

Water Fund
(amounts in thousands)

	ACTUALS						PROJECTED																			
	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY25	FY26	FY27	FY28	FY29	FY30	FY31	FY32	FY32
Resources																										
Beginning fund balance	\$906	\$820	\$620	\$468	\$695	\$1,256	\$1,432	\$7,008	\$6,105	\$5,294	\$2,584	\$1,230	\$1,383	\$1,563	\$1,905	\$2,138	\$2,176	\$2,318	\$2,515	\$2,771	\$3,089	\$3,174	\$3,302	\$3,558	\$3,886	\$4,292
Water charges - base	2,449	2,807	2,763	2,773	3,007	3,327	3,418	3,885	4,024	4,185	4,352	4,526	4,708	4,896	5,092	5,295	5,507	5,727	5,956	6,194	6,442	6,700	6,967	7,246	7,536	7,838
Funds from rate increases	129	148	145	129	145	158	174	180	203	211	220	229	238	247	257	267	278	289	301	313	325	338	352	366	381	396
Interest	25	85	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Miscellaneous	35	57	61	99	114	106	99	97	99	101	103	105	107	109	111	113	115	117	119	121	123	125	128	131	134	137
Licenses and permits	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Debt proceeds	-	-	-	-	-	-	-	236	1,700	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Funding from LOT	-	-	-	-	-	-	5,429	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total revenues	2,638	3,097	2,970	3,001	3,266	3,591	9,120	4,398	6,026	4,497	4,675	4,861	5,055	5,255	5,464	5,680	5,906	6,140	6,384	6,637	6,900	7,174	7,459	7,756	8,065	8,386
Total Resources	\$3,544	\$3,917	\$3,590	\$3,469	\$3,961	\$4,847	\$10,552	\$11,406	\$12,131	\$9,791	\$7,260	\$6,091	\$6,438	\$6,818	\$7,369	\$7,819	\$8,081	\$8,458	\$8,899	\$9,408	\$9,990	\$10,347	\$10,761	\$11,314	\$11,951	\$12,678
Requirements																										
Personal services	\$596	\$510	\$580	\$522	\$523	\$457	\$521	\$546	\$630	\$655	\$681	\$708	\$736	\$765	\$963	\$1,002	\$1,042	\$1,084	\$1,127	\$1,172	\$1,219	\$1,268	\$1,319	\$1,372	\$1,427	\$1,484
Materials & services	1,234	1,249	1,313	1,298	1,356	1,525	1,437	1,606	1,804	1,858	1,914	1,971	2,030	2,091	2,154	2,219	2,286	2,355	2,426	2,499	2,574	2,651	2,731	2,813	2,897	2,984
Debt service - existing	151	153	153	149	150	150	150	154	153	152	152	152	152	paid off	paid off	paid off	paid off	paid off	paid off	paid off	paid off	paid off	paid off	paid off	paid off	paid off
Debt service - new issues	-	-	-	-	-	-	-	-	-	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150
Transfers to other funds	617	1,027	686	743	657	684	703	730	986	869	895	922	950	979	1,008	1,038	1,069	1,101	1,134	1,168	1,203	1,239	1,276	1,314	1,353	1,394
Sub-total - operations	2,598	2,939	2,732	2,712	2,686	2,816	2,811	3,036	3,573	3,684	3,792	3,903	4,018	3,985	4,275	4,409	4,547	4,690	4,837	4,989	5,146	5,308	5,476	5,649	5,827	6,012
Capital outlay																										
Prior capital / equipment	126	358	390	62	19	599	97	4	30	94	97	100	103	106	109	112	115	118	122	126	130	134	138	142	146	150
Future water line replacement	-	-	-	-	-	-	636	751	900	925	800	475	575	592	610	628	850	876	902	929	957	1,250	1,288	1,327	1,367	1,408
Bolton Reservoir replacement	-	-	-	-	-	-	-	1,001	2,159	2,328	1,164	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Demolish Abandoned View	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Reservoir Lining/Coating	-	-	-	-	-	-	-	-	-	-	-	-	-	-	250	-	-	-	-	-	300	-	-	-	-	300
Pressure reducing valve	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Reservoir seismic repairs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tigard/LO interite	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
System improv projects	-	-	-	-	-	-	-	509	150	150	150	150	150	200	206	212	218	225	232	239	246	253	261	269	277	285
Telemetry (SCADA) upgrade	-	-	-	-	-	-	-	-	25	26	27	80	29	30	31	32	33	34	35	36	37	100	40	41	42	43
Sub-total - capital	126	358	390	62	19	599	733	2,265	3,264	3,523	2,238	805	857	928	956	1,234	1,216	1,253	1,291	1,330	1,670	1,737	1,727	1,779	1,832	2,186
Total expenditures	2,724	3,297	3,122	2,774	2,705	3,415	3,544	5,301	6,837	7,207	6,030	4,708	4,875	4,913	5,231	5,643	5,763	5,943	6,128	6,319	6,816	7,045	7,203	7,428	7,659	8,198
Ending Fund Balance																										
Policy requirement (15%)	275	264	284	273	282	297	294	323	365	377	389	402	415	428	468	483	499	516	533	551	569	588	608	628	649	670
Reserve for debt service (inc	151	151	151	151	151	151	150	154	153	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150
Over (under) Policy	394	205	33	271	823	984	6,564	5,628	4,776	2,057	691	831	998	1,327	1,520	1,543	1,669	1,849	2,088	2,388	2,455	2,564	2,800	3,108	3,493	3,660
Total ending fund balance	820	620	468	695	1,256	1,432	7,008	6,105	5,294	2,584	1,230	1,383	1,563	1,905	2,138	2,176	2,318	2,515	2,771	3,089	3,174	3,302	3,558	3,886	4,292	4,480
Total Requirements	\$3,544	\$3,917	\$3,590	\$3,469	\$3,961	\$4,847	\$10,552	\$11,406	\$12,131	\$9,791	\$7,260	\$6,091	\$6,438	\$6,818	\$7,369	\$7,819	\$8,081	\$8,458	\$8,899	\$9,408	\$9,990	\$10,347	\$10,761	\$11,314	\$11,951	\$12,678

20-year Totals for Capital Projects	
	18,046
	6,652
	850
	-
	-
	-
	4,382
	721
Total	30,651

Utility Rate Information:	
% water rate increases	5% 5% 5% 5% 5% 5%
Projected revenue variance	-1.0% -1.0% -1.0% -1.0% -1.0% -1.0%
Water portion of average bill	\$ 14 \$ 15 \$ 15 \$ 16 \$ 17 \$ 18
Total average utility bill	\$ 40 \$ 42 \$ 57 \$ 60 \$ 63 \$ 66
	\$ 78 \$ 83 \$ 87 \$ 91 \$ 96 \$ 101 \$ 106 \$ 111 \$ 117 \$ 122 \$ 129 \$ 135 \$ 142 \$ 149 \$ 156 \$ 164 \$ 172 \$ 181 \$ 190 \$ 199
Bond Covenant Information:	
Coverage Ratio (130% min)	417% 160% 202% 256% 285% 617%
Reserves (Max Annual DS)	\$ 151 \$ 151 \$ 151 \$ 151 \$ 151 \$ 151

Water Fund Projection (Scenerio 1) - Funding Bolton and some Water Line Replacements over 20 years

City of West Linn
Water Fund
(amounts in thousands)

Water Fund
(amounts in thousands)

	ACTUALS						PROJECTED																					
	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY25	FY26	FY27	FY28	FY29	FY30	FY31	FY32	FY32		
Resources																												
Beginning fund balance	\$906	\$820	\$620	\$468	\$695	\$1,256	\$1,432	\$7,008	\$6,105	\$7,598	\$5,101	\$3,492	\$3,125	\$2,852	\$2,813	\$2,656	\$2,295	\$2,233	\$2,222	\$2,266	\$2,228	\$1,948	\$1,971	\$1,783	\$1,676	\$1,655		
Water charges - base	2,449	2,807	2,763	2,773	3,007	3,327	3,418	3,885	4,024	4,387	4,563	4,745	4,935	5,132	5,337	5,551	5,773	6,004	6,244	6,494	6,753	7,024	7,305	7,597	7,901	8,217	5.00%	
Funds from rate increases	129	148	145	129	145	158	174	180	407	222	230	240	249	259	270	280	292	303	315	328	341	355	369	384	399	415		
Interest	25	85	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Miscellaneous	35	57	61	99	114	106	99	97	99	101	103	105	107	109	111	113	115	117	119	121	123	125	128	131	134	137	2.00%	
Licenses and permits	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Debt proceeds	-	-	-	-	-	-	-	236	3,800	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Funding from LOT	-	-	-	-	-	-	5,429	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Total revenues	2,638	3,097	2,970	3,001	3,266	3,591	9,120	4,398	8,330	4,710	4,896	5,091	5,293	5,503	5,722	5,949	6,186	6,431	6,686	6,952	7,227	7,515	7,814	8,125	8,448	8,784		
Total Resources	\$3,544	\$3,917	\$3,590	\$3,469	\$3,961	\$4,847	\$10,552	\$11,406	\$14,435	\$12,308	\$9,997	\$8,583	\$8,419	\$8,355	\$8,535	\$8,606	\$8,481	\$8,664	\$8,908	\$9,218	\$9,455	\$9,463	\$9,785	\$9,908	\$10,124	\$10,439		
Requirements																												
Personal services	\$596	\$510	\$580	\$522	\$523	\$457	\$521	\$546	\$630	\$655	\$681	\$708	\$736	\$765	\$963	\$1,002	\$1,042	\$1,084	\$1,127	\$1,172	\$1,219	\$1,268	\$1,319	\$1,372	\$1,427	\$1,484	4.00%	
Materials & services	1,234	1,249	1,313	1,298	1,356	1,525	1,437	1,606	1,804	1,858	1,914	1,971	2,030	2,091	2,154	2,219	2,286	2,355	2,426	2,499	2,574	2,651	2,731	2,813	2,897	2,984	3.00%	
Debt service - existing	151	153	153	149	150	150	150	154	153	152	152	152	152	paid off	paid off	paid off	paid off	paid off	paid off	paid off	paid off	paid off	paid off	paid off	paid off	paid off	Scheduled	
Debt service - new issues	-	-	-	-	-	-	-	-	-	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	Scheduled	
Transfers to other funds	617	1,027	686	743	657	684	703	730	986	869	895	922	950	979	1,008	1,038	1,069	1,101	1,134	1,168	1,203	1,239	1,276	1,314	1,353	1,394	3.00%	
Sub-total - operations	2,598	2,939	2,732	2,712	2,686	2,816	2,811	3,036	3,573	3,684	3,792	3,903	4,018	3,985	4,275	4,409	4,547	4,690	4,837	4,989	5,146	5,308	5,476	5,649	5,827	6,012		
Capital outlay																												
Prior capital / equipment	126	358	390	62	19	599	97	4	30	94	97	100	103	106	109	112	115	118	122	126	130	134	138	142	146	150	3.00%	
Future water line replacements	-	-	-	-	-	-	636	751	900	925	1,000	1,150	1,185	1,221	1,258	1,296	1,335	1,375	1,416	1,600	1,648	1,697	1,748	1,800	1,854	1,910	3.00%	
Bolton Reservoir replacement	-	-	-	-	-	-	-	1,001	2,159	2,328	1,164	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.00%	
Demolish Abandoned View	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.00%	
Reservoir Lining/Coating	-	-	-	-	-	-	-	-	-	-	200	-	-	-	-	250	-	-	-	-	300	-	-	-	-	-	3.00%	
Pressure reducing valve	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.00%	
Reservoir seismic repairs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.00%	
Tigard/LO interite	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.00%	
System improv projects	-	-	-	-	-	-	-	509	150	150	225	225	232	200	206	212	218	225	232	239	246	253	600	600	600	600	3.00%	
Telemetry (SCADA) upgrade	-	-	-	-	-	-	-	-	25	26	27	80	29	30	31	32	33	34	35	36	37	100	40	41	42	43	3.00%	
Sub-total - capital	126	358	390	62	19	599	733	2,265	3,264	3,523	2,713	1,555	1,549	1,557	1,604	1,902	1,701	1,752	1,805	2,001	2,361	2,184	2,526	2,583	2,642	3,053	3.00%	
Total expenditures	2,724	3,297	3,122	2,774	2,705	3,415	3,544	5,301	6,837	7,207	6,505	5,458	5,567	5,542	5,879	6,311	6,248	6,442	6,642	6,990	7,507	7,492	8,002	8,232	8,469	9,065		
Ending Fund Balance																												
Policy requirement (15%)	275	264	284	273	282	297	294	323	365	377	389	402	415	428	468	483	499	516	533	551	569	588	608	628	649	670		
Reserve for debt service (inc.)	151	151	151	151	151	151	150	154	153	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150		
Over (under) Policy	394	205	33	271	823	984	6,564	5,628	7,080	4,574	2,953	2,573	2,287	2,235	2,038	1,662	1,584	1,556	1,583	1,527	1,229	1,233	1,025	898	856	554		
Total ending fund balance	820	620	468	695	1,256	1,432	7,008	6,105	7,598	5,101	3,492	3,125	2,852	2,813	2,656	2,295	2,233	2,222	2,266	2,228	1,948	1,971	1,783	1,676	1,655	1,374		
Total Requirements	\$3,544	\$3,917	\$3,590	\$3,469	\$3,961	\$4,847	\$10,552	\$11,406	\$14,435	\$12,308	\$9,997	\$8,583	\$8,419	\$8,355	\$8,535	\$8,606	\$8,481	\$8,664	\$8,908	\$9,218	\$9,455	\$9,463	\$9,785	\$9,908	\$10,124	\$10,439		

Utility Rate Information:																											
% water rate increases	5%	5%	5%	5%	5%	5%	5%	5%	10%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%
Projected revenue variance									-1.0%	-1.0%	-1.0%	-1.0%	-1.0%	-1.0%	-1.0%	-1.0%	-1.0%	-1.0%	-1.0%	-1.0%	-1.0%	-1.0%	-1.0%	-1.0%	-1.0%	-1.0%	
Water portion of average bill	\$ 14	\$ 15	\$ 15	\$ 16	\$ 17	\$ 18	\$ 19	\$ 20	\$ 22	\$ 23	\$ 24	\$ 25	\$ 26	\$ 28	\$ 29	\$ 30	\$ 32	\$ 34	\$ 35	\$ 37	\$ 39	\$ 41	\$ 43	\$ 45	\$ 47	\$ 50	
Total average utility bill	\$ 40	\$ 42	\$ 57	\$ 60	\$ 63	\$ 66	\$ 78	\$ 83	\$ 91	\$ 96	\$ 100	\$ 105	\$ 111	\$ 116	\$ 122	\$ 128	\$ 135	\$ 141	\$ 148	\$ 156	\$ 164	\$ 172	\$ 180	\$ 189	\$ 199	\$ 209	
Bond Covenant Information:																											
Coverage Ratio (130% min)	417%	160%	202%	256%	285%	617%	621%	768%	661%	406%	431%	458%	486%														
Reserves (Max Annual DS)	\$ 151	\$ 151	\$ 151	\$ 151	\$ 151	\$ 151	\$ 150	\$ 154	\$ 153	\$ 150	\$ 150	\$ 150	\$ 150														

Monthly increase (Avg)	\$1.19	\$1.37	\$1.34	\$1.19	\$1.34	\$1.46	\$1.61	\$1.67	\$3.77	\$2.06	\$2.13	\$2.22	\$2.31	\$2.40	\$2.50	\$2.59	\$2.70	\$2.81	\$2.92	\$3.04	\$3.16	\$3.29	\$3.42	\$3.56	\$3.69	\$3.84	\$63.57
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Water Fund Projection (Scenerio 3) - Funding Bolton and Water Line Replacements over 20 years

**City of West Linn
Water Fund
(amounts in thousands)**

**Water Fund
(amounts in thousands)**

	ACTUALS						PROJECTED																					
	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY25	FY26	FY27	FY28	FY29	FY30	FY31	FY32	FY32		
Resources																												
Beginning fund balance	\$906	\$820	\$620	\$468	\$695	\$1,256	\$1,432	\$7,008	\$6,105	\$7,923	\$5,764	\$4,506	\$4,504	\$4,610	\$4,965	\$5,218	\$5,283	\$5,664	\$6,114	\$6,638	\$7,098	\$7,336	\$7,898	\$8,271	\$8,747	\$9,332		
Water charges - base	2,449	2,807	2,763	2,773	3,007	3,327	3,418	3,885	4,024	4,709	4,897	5,093	5,296	5,508	5,728	5,957	6,195	6,443	6,700	6,968	7,247	7,537	7,838	8,152	8,479	8,817	5.00%	
Funds from rate increases	129	148	145	129	145	158	174	180	732	238	247	257	267	278	289	301	313	325	338	352	366	381	396	412	428	445	5.00%	
Interest	25	85	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Miscellaneous	35	57	61	99	114	106	99	97	99	101	103	105	107	109	111	113	115	117	119	121	123	125	128	131	134	137	2.00%	
Licenses and permits	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Debt proceeds	-	-	-	-	-	-	-	236	3,800	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Funding from LOT	-	-	-	-	-	-	5,429	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Total revenues	2,638	3,097	2,970	3,001	3,266	3,591	9,120	4,398	8,655	5,048	5,247	5,456	5,672	5,898	6,132	6,376	6,629	6,892	7,165	7,450	7,746	8,054	8,374	8,708	9,055	9,414		
Total Resources	\$3,544	\$3,917	\$3,590	\$3,469	\$3,961	\$4,847	\$10,552	\$11,406	\$14,760	\$12,971	\$11,011	\$9,962	\$10,177	\$10,507	\$11,097	\$11,594	\$11,912	\$12,556	\$13,280	\$14,088	\$14,843	\$15,390	\$16,273	\$16,979	\$17,801	\$18,747		
Requirements																												
Personal services	\$596	\$510	\$580	\$522	\$523	\$457	\$521	\$546	\$630	\$655	\$681	\$708	\$736	\$765	\$963	\$1,002	\$1,042	\$1,084	\$1,127	\$1,172	\$1,219	\$1,268	\$1,319	\$1,372	\$1,427	\$1,484	4.00%	
Materials & services	1,234	1,249	1,313	1,298	1,356	1,525	1,437	1,606	1,804	1,858	1,914	1,971	2,030	2,091	2,154	2,219	2,286	2,355	2,426	2,499	2,574	2,651	2,731	2,813	2,897	2,984	3.00%	
Debt service - existing	151	153	153	149	150	150	150	154	153	152	152	152	152	paid off	paid off	paid off	paid off	paid off	paid off	paid off	paid off	paid off	paid off	paid off	paid off	paid off	Scheduled	
Debt service - new issues	-	-	-	-	-	-	-	-	-	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	Scheduled	
Transfers to other funds	617	1,027	686	743	657	684	703	730	986	869	895	922	950	979	1,008	1,038	1,069	1,101	1,134	1,168	1,203	1,239	1,276	1,314	1,353	1,394	3.00%	
Sub-total - operations	2,598	2,939	2,732	2,712	2,686	2,816	2,811	3,036	3,573	3,684	3,792	3,903	4,018	3,985	4,275	4,409	4,547	4,690	4,837	4,989	5,146	5,308	5,476	5,649	5,827	6,012		
Capital outlay																												
Prior capital / equipment	126	358	390	62	19	599	97	4	30	94	97	100	103	106	109	112	115	118	122	126	130	134	138	142	146	150	3.00%	
Future water line replacements	-	-	-	-	-	-	636	751	900	925	1,000	1,150	1,185	1,221	1,258	1,296	1,335	1,375	1,416	1,600	1,648	1,697	1,748	1,800	1,854	1,910	3.00%	
Bolton Reservoir replacement	-	-	-	-	-	-	-	1,001	2,159	2,328	1,164	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.00%	
Demolish Abandoned View	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.00%	
Reservoir Lining/Coating	-	-	-	-	-	-	-	-	-	-	200	-	-	-	-	250	-	-	-	-	300	-	-	-	-	350	3.00%	
Pressure reducing valve	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.00%	
Reservoir seismic repairs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.00%	
Tigard/LO interite	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.00%	
System improv projects	-	-	-	-	-	-	-	509	150	150	225	225	232	200	206	212	218	225	232	239	246	253	600	600	600	600	3.00%	
Telemetry (SCADA) upgrade	-	-	-	-	-	-	-	-	25	26	27	80	29	30	31	32	33	34	35	36	37	100	40	41	42	43	3.00%	
Sub-total - capital	126	358	390	62	19	599	733	2,265	3,264	3,523	2,713	1,555	1,549	1,557	1,604	1,902	1,701	1,752	1,805	2,001	2,361	2,184	2,526	2,583	2,642	3,053	3.00%	
Total expenditures	2,724	3,297	3,122	2,774	2,705	3,415	3,544	5,301	6,837	7,207	6,505	5,458	5,567	5,542	5,879	6,311	6,248	6,442	6,642	6,990	7,507	7,492	8,002	8,232	8,469	9,065		
Ending Fund Balance																												
Policy requirement (15%)	275	264	284	273	282	297	294	323	365	377	389	402	415	428	468	483	499	516	533	551	569	588	608	628	649	670		
Reserve for debt service (inc.)	151	151	151	151	151	151	150	154	153	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150		
Over (under) Policy	394	205	33	271	823	984	6,564	5,628	7,405	5,237	3,967	3,952	4,045	4,387	4,600	4,650	5,015	5,448	5,955	6,397	6,617	7,160	7,513	7,969	8,533	8,862		
Total ending fund balance	820	620	468	695	1,256	1,432	7,008	6,105	7,923	5,764	4,506	4,504	4,610	4,965	5,218	5,283	5,664	6,114	6,638	7,098	7,336	7,898	8,271	8,747	9,332	9,682		
Total Requirements	\$3,544	\$3,917	\$3,590	\$3,469	\$3,961	\$4,847	\$10,552	\$11,406	\$14,760	\$12,971	\$11,011	\$9,962	\$10,177	\$10,507	\$11,097	\$11,594	\$11,912	\$12,556	\$13,280	\$14,088	\$14,843	\$15,390	\$16,273	\$16,979	\$17,801	\$18,747		
Utility Rate Information:																												
% water rate increases	5%	5%	5%	5%	5%	5%	5%	5%	18%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%		
Projected revenue variance									-1.0%	-1.0%	-1.0%	-1.0%	-1.0%	-1.0%	-1.0%	-1.0%	-1.0%	-1.0%	-1.0%	-1.0%	-1.0%	-1.0%	-1.0%	-1.0%	-1.0%			
Water portion of average bill	\$ 14	\$ 15	\$ 15	\$ 16	\$ 17	\$ 18	\$ 19	\$ 20	\$ 23	\$ 24	\$ 26	\$ 27	\$ 28	\$ 30	\$ 31	\$ 33	\$ 34	\$ 36	\$ 38	\$ 40	\$ 42	\$ 44	\$ 46	\$ 48	\$ 51	\$ 53		
Total average utility bill	\$ 40	\$ 42	\$ 57	\$ 60	\$ 63	\$ 66	\$ 78	\$ 83	\$ 98	\$ 103	\$ 108	\$ 113	\$ 119	\$ 125	\$ 131	\$ 138	\$ 144	\$ 152	\$ 159	\$ 167	\$ 176	\$ 184	\$ 194	\$ 203	\$ 213	\$ 224		
Bond Covenant Information:																												
Coverage Ratio (130% min)	417%	160%	202%	256%	285%	617%	621%	768%	873%	518%	548%	579%	612%															
Reserves (Max Annual DS)	\$ 151	\$ 151	\$ 151	\$ 151	\$ 151	\$ 151	\$ 150	\$ 154	\$ 153	\$ 150	\$ 150	\$ 150	\$ 150															
Monthly increase (Avg)	\$1.19	\$1.37	\$1.34	\$1.19	\$1.34	\$1.46	\$1.61	\$1.67	\$6.78	\$2.20	\$2.29	\$2.38	\$2.47	\$2.57	\$2.68	\$2.79	\$2.90	\$3.01	\$3.13	\$3.26	\$3.39	\$3.53	\$3.67	\$3.81	\$3.96	\$4.12	\$70.12	

20-year Totals for Capital Projects
26,705
6,652
1,100
-
-
5,922
721
41,100

Water Fund Projection (Scenerio 2) - Funding Bolton and Water Line Replacements over 20 years

Date: 11-10-15

	Name	Phone	Email
	Ray Kindley	503-655-1773	-> not attending tonight (by phone)
	Alice Richmond	503-723-0101	
	Bill Frazier	503-657-0739	billcfrazier@comcast.net
	Edward Keonjian	503-650-7387	Edward1717@aol.com 
	Jon Miller	503-650-0121	Jon.miller19@comcast.net
	Amit Armstrong	503-539-4508	Amit.armstrong@gmail.com
	Erik Miller	503-880-9057	efletcher@hotmail.com 
	Jim Whynot – Water Supervisor	503-656-6081	jwhynot@westlinnoregon.gov
	Richard Seals – Finance Director	503-722-5505	rseals@westlinnoregon.gov
	Lance Calvert – Public Works Director	503-722-5500	lcalvert@westlinnoregon.gov
	Brenda Perry – City Council Liaison		bperry@westlinnoregon.gov