



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

# UTILITY ADVISORY BOARD MEETING

## Summary Notes

Tuesday, August 11, 2015

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

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### 1. Call to Order and Introductions 6:01 pm

**Members Present:** Ray Kindley (by phone), Bill Frazier, Alice Richmond, Jon Miller, Erik Miller

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

### 2. Approval of June 2015 Summary Notes

Motion to approve made by Erik Miller, seconded by Jon Miller. The notes were approved unanimously.

### 3. Discussion regarding letters submitted to Council

First letter discussed was regarding formation of UAB via the City Charter as an advisory board independent of the City Council. Group to date had not received feedback from Council. Brenda stated that she would follow up on this item at next work session. The group continued to discuss that language in the Charter is in conflict with amended ordinance passed in December of 2014.

### 4. Finance Update

Richard provided current rates and forecasting information to the group. The 20 year forecasting has been updated since Richard last met with group. The group discussed different rate increase scenarios over a 20 year span (5% & 18%). Revenue is currently up approximately \$4 million which creates a more favorable scenario for financial forecasting of the water fund if this trend continues. The fund balance is projected to grow more substantially based on the current fund

#### 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.*

levels. An 18% spike is likely more than what is needed to replace water pipes and the Bolton Reservoir. Richard ran some alternate rate increase scenarios and 10% may accommodate the amount of future work but the fund balance at the end will be lower than it would be with an 18% increase. Ray inquired how these projections would be impacted if annual revenues did not stay consistent with current levels. Richard clarified that there is a 1% adjustment each year to stabilize the projections but these cannot definitively adjust for future changes in weather (e.g. two years of rainy summers). Also, Richard stated that wholesale water rates can be increased and could also impact long-term fund levels. Ray would like a regressive analysis of revenues over at least a five year period to determine "normal revenues under normal precipitation". Brenda brought up community survey results regarding possible rate increases. The group would like to review these results prior to making any definitive decision on rate increase recommendation.

#### **5. Review of Charter requirements for Water Rates**

The group discussed whether or not the intent of annual 5% utility rate increases is to have it compounded with each year. Some members of the board interpret the language of the annual increase (passed in 1999) to be 5% annual increase based on the 1999 rates. Richard provided clarification on this item, the City of West Linn has received a legal opinion on this matter. The legal opinion states that the 5% is based on a year-by-year basis not 1999 rates. These findings are based on the explanatory statement within the original ballot measure. The official legal findings for this item will be shared with the group for the September meeting.

#### **6. Other Business**

None

#### **7. Adjournment**

Jon Miller moved to adjourn at 7:00pm and Erik Miller seconded.

#### **Meeting Notes:**

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Date: Aug 11, 2015

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

City of West Linn  
Water Fund  
(amounts in thousands)

Water Fund  
(amounts in thousands)

	ACTUALS						1	2	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 replacements	-	-	-	-	-	-	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	-	-	-	-	-	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	416	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

Utility Rate Information:																																		
% water rate increases	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%					
Projected revenue variance																																		
Water portion of average bill	\$ 14	\$ 15	\$ 15	\$ 16	\$ 17	\$ 18	\$ 19	\$ 20	\$ 21	\$ 22	\$ 23	\$ 24	\$ 25	\$ 26	\$ 28	\$ 29	\$ 31	\$ 32	\$ 34	\$ 35	\$ 37	\$ 39	\$ 41	\$ 43	\$ 45	\$ 47	\$ 47	\$ 47	\$ 47	\$ 47				
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	\$ 199	\$ 199	\$ 199	\$ 199				
Bond Covenant Information:																																		
Coverage Ratio (130% min)	417%	160%	202%	256%	285%	617%	621%	768%	528%	336%	358%	382%	407%																					
Reserves (Max Annual DS)	\$ 151	\$ 151	\$ 151	\$ 151	\$ 151	\$ 151	\$ 150	\$ 154	\$ 153	\$ 150	\$ 150	\$ 150	\$ 150	\$ 150																				

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

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



City of West Linn  
Water Fund  
(amounts in thousands)

Water Fund  
(amounts in thousands)

	ACTUALS						1	2	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
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
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	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
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 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
Bolton Reservoir replacement	-	-	-	-	-	-	-	1,001	2,159	2,328	1,164	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Demolish Abandoned View	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Reservoir Lining/Coating	-	-	-	-	-	-	-	-	-	-	200	-	-	-	-	250	-	-	-	300	-	-	-	-	-	350
Pressure reducing valve	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Reservoir seismic repairs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tigard/LO interite	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
System improv projects	-	509	-	-	-	-	-	509	150	150	225	225	232	200	206	212	218	225	232	239	246	253	600	600	600	600
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	2,713	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
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:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						</
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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



City of West Linn  
Water Fund  
(amounts in thousands)

Water Fund  
(amounts in thousands)

	ACTUALS						1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	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
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
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
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 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
Bolton Reservoir replacement	-	-	-	-	-	-	-	1,001	2,159	2,328	1,164	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Demolish Abandoned View	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Reservoir Lining/Coating	-	-	-	-	-	-	-	-	-	-	200	-	-	-	-	250	-	-	-	300	-	-	-	-	-	350
Pressure reducing valve	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Reservoir seismic repairs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tigard/LO interite	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
System improv projects	-	509	-	-	-	-	-	509	150	150	225	225	232	200	206	212	218	225	232	239	246	253	600	600	600	600
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	2,713	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
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%
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													

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

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						1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	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	\$7,401	\$4,927	\$3,456	\$3,321	\$3,284	\$3,500	\$3,656	\$3,668	\$3,642	\$3,433	\$3,346	\$3,247	\$3,080	\$3,052	\$2,971	\$2,795	\$2,782
Water charges - base	2,449	2,807	2,763	2,773	3,007	3,327	3,418	3,885	4,024	5,432	5,649	5,875	6,110	6,355	6,609	6,874	7,149	7,435	7,732	8,040	8,362	8,696	9,044	9,406	9,782	10,173
Funds from rate increases	129	148	145	129	145	158	174	180	1,463	274	285	297	309	321	334	347	361	375	390	406	422	439	457	475	494	514
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	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	9,386	5,807	6,037	6,278	6,528	6,788	7,058	7,339	7,631	7,934	8,249	8,576	8,917	9,271	9,641	10,025	10,424	10,839
Total Resources	\$3,544	\$3,917	\$3,590	\$3,469	\$3,961	\$4,847	\$10,552	\$11,406	\$15,491	\$13,209	\$10,964	\$9,734	\$9,850	\$10,072	\$10,558	\$10,995	\$11,299	\$11,576	\$11,681	\$11,922	\$12,164	\$12,351	\$12,693	\$12,996	\$13,219	\$13,621
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 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
Bolton Reservoir replacement	-	-	-	-	-	-	-	1,001	2,159	2,328	1,164	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Demolish Abandoned View	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Reservoir Lining/Coating	-	-	-	-	-	-	-	-	-	-	200	-	-	-	-	250	-	-	-	-	300	-	-	-	-	350
Pressure reducing valve	-	-	-	-	-	-	-	-	161	21	21	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22
Reservoir seismic repairs	-	-	-	-	-	-	-	-	91	104	107	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110
Tigard/LO interite	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
System improv projects	-	-	-	-	-	-	-	509	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,100	1,500	1,800	1,800	1,800	1,700	2,000	2,200	2,450	2,450	2,450
Telemetry (SCADA) upgrade	-	-	-	-	-	-	-	-	76	26	27	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
Sub-total - capital	126	358	390	62	19	599	733	2,265	4,517	4,598	3,716	2,510	2,548	2,587	2,627	2,918	3,110	3,453	3,498	3,686	3,938	3,991	4,246	4,552	4,610	5,020
Total expenditures	2,724	3,297	3,122	2,774	2,705	3,415	3,544	5,301	8,090	8,282	7,508	6,413	6,566	6,572	6,902	7,327	7,657	8,143	8,335	8,675	9,084	9,299	9,722	10,201	10,437	11,032
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	6,883	4,400	2,917	2,769	2,719	2,922	3,038	3,035	2,993	2,767	2,663	2,546	2,361	2,314	2,213	2,017	1,983	1,769
Total ending fund balance	820	620	468	695	1,256	1,432	7,008	6,105	7,401	4,927	3,456	3,321	3,284	3,500	3,656	3,668	3,642	3,433	3,346	3,247	3,080	3,052	2,971	2,795	2,782	2,589
Total Requirements	\$3,544	\$3,917	\$3,590	\$3,469	\$3,961	\$4,847	\$10,552	\$11,406	\$15,491	\$13,209	\$10,964	\$9,734	\$9,850	\$10,072	\$10,558	\$10,995	\$11,299	\$11,576	\$11,681	\$11,922	\$12,164	\$12,351	\$12,693	\$12,996	\$13,219	\$13,621

Utility Rate Information:																											
% water rate increases	5%	5%	5%	5%	5%	5%	5%	5%	36%	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%	-1.0%
Water portion of average bill	\$ 14	\$ 15	\$ 15	\$ 16	\$ 17	\$ 18	\$ 19	\$ 20	\$ 27	\$ 28	\$ 30	\$ 31	\$ 33	\$ 34	\$ 36	\$ 38	\$ 40	\$ 42	\$ 44	\$ 46	\$ 48	\$ 50	\$ 53	\$ 56	\$ 58	\$ 61	
Total average utility bill	\$ 40	\$ 42	\$ 57	\$ 60	\$ 63	\$ 66	\$ 78	\$ 83	\$ 113	\$ 118	\$ 124	\$ 130	\$ 137	\$ 144	\$ 151	\$ 159	\$ 166	\$ 175	\$ 184	\$ 193	\$ 202	\$ 212	\$ 223	\$ 234	\$ 246	\$ 258	
Bond Covenant Information:																											
Coverage Ratio (130% min)	417%	160%	202%	256%	285%	617%	621%	768%	1351%	770%	809%	851%	895%														
Reserves (Max Annual DS)	\$ 151	\$ 151	\$ 151	\$ 151	\$ 151	\$ 151	\$ 150	\$ 154	\$ 153	\$ 150	\$ 150	\$ 150	\$ 150														

20-year Totals for Capital Projects
26,705
6,652
-
1,100
533
1,952
-
29,459
549
66,950

Water Fund Projection (Scenerio 4) - Funding all Water CIP projects over 20 years