



Attachment A

Projected City of Portland Wholesale Rates

Table 47
Tualatin Valley Water District
Source Options PV Analysis
PWB Adjustment Analysis
Average-Day Demands (MGD)

TVWD mgd from PDX 13.2
TVWD % from PDX 16.5%
Fixed Cost % 95.2%

Year	Common Assumptions						TVWD-only Analysis			Including Hillsboro					Metzger Demands Only starting 2026				
	TVWD Total PDD	JWC + Grabhorn ASR	Net TVWD Portland	Equivalent ADD	TVWD Contract - ADD (MGD)	Tigard Deduct	Portland Adjusted Demands	% Change to PWB Total	Adj. to Baseline Escalation	Hillsboro ADD	Hillsboro Contract Amounts	PWB Adj. Demands w/ COH	% Change to PWB Total	Adj. to Baseline Escalation	Metzger Demand from Portland	TVWD Contract - ADD (MGD)	PWB Adj. Demands	% Change to PWB Total	Adj. to Baseline Escalation
2012	49.2	15.5	33.7	16.0	13.2		80.0			0.0		80.0			0.0	13.2	80.0		
2013	49.5	15.5	34.0	16.2	13.2		80.0			0.0		80.0			0.0	13.2	80.0		
2014	49.9	15.5	34.4	16.4	13.2		80.0			0.0		80.0			0.0	13.2	80.0		
2015	50.3	15.5	34.8	16.6	13.2		80.0			0.0		80.0			0.0	13.2	80.0		
2016	50.9	15.5	35.4	16.8	19.4	(6.0)	80.2	0.3%	(0.0)	0.0	7.9	88.1	10.1%	(0.1)	5.2	19.4	80.2	0.0	(0.0)
2017	51.4	15.5	35.9	17.1	19.4	(6.0)	80.2			0.0	7.9	88.1			5.3	19.4	80.2		
2018	52.0	15.5	36.5	17.4	19.4	(6.0)	80.2			0.0	7.9	88.1			5.4	19.4	80.2		
2019	52.6	15.5	37.1	17.7	19.4	(6.0)	80.2			0.0	7.9	88.1			5.4	19.4	80.2		
2020	53.2	15.5	37.7	17.9	19.4	(6.0)	80.2			0.0	7.9	88.1			5.5	19.4	80.2		
2021	53.8	15.5	38.3	18.2	19.4	(6.0)	80.2			4.5	7.9	88.1			5.6	19.4	80.2		
2022	54.4	15.5	38.9	18.5	19.4	(6.0)	80.2			5.3	7.9	88.1			5.6	19.4	80.2		
2023	55.0	15.5	39.5	18.8	19.4	(6.0)	80.2			6.2	7.9	88.1			5.7	19.4	80.2		
2024	55.6	15.5	40.1	19.1	19.4	(6.0)	80.2			7.0	7.9	88.1			5.8	19.4	80.2		
2025	56.3	15.5	40.8	19.4	19.4	(6.0)	80.2			7.9	7.9	88.1			5.8	19.4	80.2		
2026	56.9	15.5	41.4	19.7	22.5	(6.0)	83.3	3.9%	(0.0)	8.7	13.9	97.2	10.4%	(0.1)	5.9	6.6	67.4	(0.2)	0.2
2027	57.5	15.5	42.0	20.0	22.5	(6.0)	83.3			9.6	13.9	97.2			6.0	6.6	67.4		
2028	58.2	15.5	42.7	20.3	22.5	(6.0)	83.3			10.4	13.9	97.2			6.0	6.6	67.4		
2029	58.8	15.5	43.3	20.6	22.5	(6.0)	83.3			11.3	13.9	97.2			6.1	6.6	67.4		
2030	59.5	15.5	44.0	20.9	22.5	(6.0)	83.3			11.7	13.9	97.2			6.2	6.6	67.4		
2031	60.1	15.5	44.6	21.3	22.5	(6.0)	83.3			12.1	13.9	97.2			6.3	6.6	67.4		
2032	60.8	15.5	45.3	21.6	22.5	(6.0)	83.3			12.6	13.9	97.2			6.3	6.6	67.4		
2033	61.4	15.5	45.9	21.9	22.5	(6.0)	83.3			13.0	13.9	97.2			6.4	6.6	67.4		
2034	62.1	15.5	46.6	22.2	22.5	(6.0)	83.3			13.5	13.9	97.2			6.5	6.6	67.4		
2035	62.8	15.5	47.3	22.5	22.5	(6.0)	83.3			13.9	13.9	97.2			6.6	6.6	67.4		
2036	63.4	15.5	47.9	22.8	25.5	(6.0)	86.3	3.6%	(0.0)	14.3	17.3	103.6	6.5%	(0.1)	6.6	7.3	68.1	0.0	(0.0)
2037	64.0	15.5	48.5	23.1	25.5	(6.0)	86.3			14.6	17.3	103.6			6.7	7.3	68.1		
2038	64.7	15.5	49.2	23.4	25.5	(6.0)	86.3			14.9	17.3	103.6			6.8	7.3	68.1		
2039	65.3	15.5	49.8	23.7	25.5	(6.0)	86.3			15.3	17.3	103.6			6.8	7.3	68.1		
2040	65.9	15.5	50.4	24.0	25.5	(6.0)	86.3			15.6	17.3	103.6			6.9	7.3	68.1		
2041	66.5	15.5	51.0	24.3	25.5	(6.0)	86.3			15.9	17.3	103.6			7.0	7.3	68.1		
2042	67.2	15.5	51.7	24.6	25.5	(6.0)	86.3			16.3	17.3	103.6			7.1	7.3	68.1		
2043	67.8	15.5	52.3	24.9	25.5	(6.0)	86.3			16.6	17.3	103.6			7.1	7.3	68.1		
2044	68.4	15.5	52.9	25.2	25.5	(6.0)	86.3			17.0	17.3	103.6			7.2	7.3	68.1		
2045	69.1	15.5	53.6	25.5	25.5	(6.0)	86.3			17.3	17.3	103.6			7.3	7.3	68.1		
2046	69.7	15.5	54.2	25.8	26.9	(6.0)	87.7	1.6%	(0.0)	17.6	18.8	106.5	2.8%	(0.0)	7.3	7.6	68.4	0.0	(0.0)
2047	70.3	15.5	54.8	26.1	26.9	(6.0)	87.7			17.9	18.8	106.5			7.4	7.6	68.4		
2048	70.8	15.5	55.3	26.4	26.9	(6.0)	87.7			18.2	18.8	106.5			7.5	7.6	68.4		
2049	71.4	15.5	55.9	26.6	26.9	(6.0)	87.7			18.5	18.8	106.5			7.5	7.6	68.4		
2050	72.0	15.5	56.5	26.9	26.9	(6.0)	87.7			18.8	18.8	106.5			7.6	7.6	68.4		
2051	72.0	15.5	56.5	26.9	26.9	(6.0)	87.7			18.8	18.8	106.5			7.6	7.6	68.4		
2052	72.0	15.5	56.5	26.9	26.9	(6.0)	87.7			18.8	18.8	106.5			7.6	7.6	68.4		
2053	72.0	15.5	56.5	26.9	26.9	(6.0)	87.7			18.8	18.8	106.5			7.6	7.6	68.4		
2054	72.0	15.5	56.5	26.9	26.9	(6.0)	87.7			18.8	18.8	106.5			7.6	7.6	68.4		
2055	72.0	15.5	56.5	26.9	26.9	(6.0)	87.7			18.8	18.8	106.5			7.6	7.6	68.4		
2056	72.0	15.5	56.5	26.9	26.9	(6.0)	87.7			18.8	18.8	106.5			7.6	7.6	68.4		
2057	72.0	15.5	56.5	26.9	26.9	(6.0)	87.7			18.8	18.8	106.5			7.6	7.6	68.4		
2058	72.0	15.5	56.5	26.9	26.9	(6.0)	87.7			18.8	18.8	106.5			7.6	7.6	68.4		
2059	72.0	15.5	56.5	26.9	26.9	(6.0)	87.7			18.8	18.8	106.5			7.6	7.6	68.4		
2060	72.0	15.5	56.5	26.9	26.9	(6.0)	87.7			18.8	18.8	106.5			7.6	7.6	68.4		
2061	72.0	15.5	56.5	26.9	26.9	(6.0)	87.7			18.8	18.8	106.5			7.6	7.6	68.4		
2062	72.0	15.5	56.5	26.9	26.9	(6.0)	87.7			18.8	18.8	106.5			7.6	7.6	68.4		
2063	72.0	15.5	56.5	26.9	26.9	(6.0)	87.7			18.8	18.8	106.5			7.6	7.6	68.4		
2064	72.0	15.5	56.5	26.9	26.9	(6.0)	87.7			18.8	18.8	106.5			7.6	7.6	68.4		
2065	72.0	15.5	56.5	26.9	26.9	(6.0)	87.7			18.8	18.8	106.5			7.6	7.6	68.4		
2066	72.0	15.5	56.5	26.9	26.9	(6.0)	87.7			18.8	18.8	106.5			7.6	7.6	68.4		
2067	72.0	15.5	56.5	26.9	26.9	(6.0)	87.7			18.8	18.8	106.5			7.6	7.6	68.4		
2068	72.0	15.5	56.5	26.9	26.9	(6.0)	87.7			18.8	18.8	106.5			7.6	7.6	68.4		
2069	72.0	15.5	56.5	26.9	26.9	(6.0)	87.7			18.8	18.8	106.5			7.6	7.6	68.4		
2070	72.0	15.5	56.5	26.9	26.9	(6.0)	87.7			18.8	18.8	106.5			7.6	7.6	68.4		
2071	72.0	15.5	56.5	26.9	26.9	(6.0)	87.7			18.8	18.8	106.5			7.6	7.6	68.4		
2072	72.0	15.5	56.5	26.9	26.9	(6.0)	87.7			18.8	18.8	106.5			7.6	7.6	68.4		

Table 47

Tualatin Valley Water District
Source Options PV Analysis

PWB Adjustment Analysis

Average-Day Demands (MGD)

TVWD mgd from PDX 13.2
TVWD % from PDX 16.5%
Fixed Cost % 95.2%

Year	Common Assumptions						TVWD-only Analysis			Including Hillsboro					Metzger Demands Only starting 2026				
	TVWD Total PDD	JWC + Grabhorn ASR	Net TVWD Portland	Equivalent ADD	TVWD Contract - ADD (MGD)	Tigard Deduct	Portland Adjusted Demands	% Change to PWB Total	Adj. to Baseline Escalation	Hillsboro ADD	Hillsboro Contract Amounts	PWB Adj. Demands w/ COH	% Change to PWB Total	Adj. to Baseline Escalation	Metzger Demand from Portland	TVWD Contract - ADD (MGD)	PWB Adj. Demands	% Change to PWB Total	Adj. to Baseline Escalation
2073	72.0	15.5	56.5	26.9	26.9	(6.0)	87.7			18.8	18.8	106.5			7.6	7.6	68.4		
2074	72.0	15.5	56.5	26.9	26.9	(6.0)	87.7			18.8	18.8	106.5			7.6	7.6	68.4		
2075	72.0	15.5	56.5	26.9	26.9	(6.0)	87.7			18.8	18.8	106.5			7.6	7.6	68.4		
2076	72.0	15.5	56.5	26.9	26.9	(6.0)	87.7			18.8	18.8	106.5			7.6	7.6	68.4		
2077	72.0	15.5	56.5	26.9	26.9	(6.0)	87.7			18.8	18.8	106.5			7.6	7.6	68.4		
2078	72.0	15.5	56.5	26.9	26.9	(6.0)	87.7			18.8	18.8	106.5			7.6	7.6	68.4		
2079	72.0	15.5	56.5	26.9	26.9	(6.0)	87.7			18.8	18.8	106.5			7.6	7.6	68.4		
2080	72.0	15.5	56.5	26.9	26.9	(6.0)	87.7			18.8	18.8	106.5			7.6	7.6	68.4		
2081	72.0	15.5	56.5	26.9	26.9	(6.0)	87.7			18.8	18.8	106.5			7.6	7.6	68.4		
2082	72.0	15.5	56.5	26.9	26.9	(6.0)	87.7			18.8	18.8	106.5			7.6	7.6	68.4		
2083	72.0	15.5	56.5	26.9	26.9	(6.0)	87.7			18.8	18.8	106.5			7.6	7.6	68.4		
2084	72.0	15.5	56.5	26.9	26.9	(6.0)	87.7			18.8	18.8	106.5			7.6	7.6	68.4		
2085	72.0	15.5	56.5	26.9	26.9	(6.0)	87.7			18.8	18.8	106.5			7.6	7.6	68.4		
2086	72.0	15.5	56.5	26.9	26.9	(6.0)	87.7			18.8	18.8	106.5			7.6	7.6	68.4		
2087	72.0	15.5	56.5	26.9	26.9	(6.0)	87.7			18.8	18.8	106.5			7.6	7.6	68.4		
2088	72.0	15.5	56.5	26.9	26.9	(6.0)	87.7			18.8	18.8	106.5			7.6	7.6	68.4		
2089	72.0	15.5	56.5	26.9	26.9	(6.0)	87.7			18.8	18.8	106.5			7.6	7.6	68.4		
2090	72.0	15.5	56.5	26.9	26.9	(6.0)	87.7			18.8	18.8	106.5			7.6	7.6	68.4		
2091	72.0	15.5	56.5	26.9	26.9	(6.0)	87.7			18.8	18.8	106.5			7.6	7.6	68.4		
2092	72.0	15.5	56.5	26.9	26.9	(6.0)	87.7			18.8	18.8	106.5			7.6	7.6	68.4		
2093	72.0	15.5	56.5	26.9	26.9	(6.0)	87.7			18.8	18.8	106.5			7.6	7.6	68.4		
2094	72.0	15.5	56.5	26.9	26.9	(6.0)	87.7			18.8	18.8	106.5			7.6	7.6	68.4		
2095	72.0	15.5	56.5	26.9	26.9	(6.0)	87.7			18.8	18.8	106.5			7.6	7.6	68.4		
2096	72.0	15.5	56.5	26.9	26.9	(6.0)	87.7			18.8	18.8	106.5			7.6	7.6	68.4		
2097	72.0	15.5	56.5	26.9	26.9	(6.0)	87.7			18.8	18.8	106.5			7.6	7.6	68.4		
2098	72.0	15.5	56.5	26.9	26.9	(6.0)	87.7			18.8	18.8	106.5			7.6	7.6	68.4		
2099	72.0	15.5	56.5	26.9	26.9	(6.0)	87.7			18.8	18.8	106.5			7.6	7.6	68.4		
2100	72.0	15.5	56.5	26.9	26.9	(6.0)	87.7			18.8	18.8	106.5			7.6	7.6	68.4		
2101	72.0	15.5	56.5	26.9	26.9	(6.0)	87.7			18.8	18.8	106.5			7.6	7.6	68.4		
2102	72.0	15.5	56.5	26.9	26.9	(6.0)	87.7			18.8	18.8	106.5			7.6	7.6	68.4		
2103	72.0	15.5	56.5	26.9	26.9	(6.0)	87.7			18.8	18.8	106.5			7.6	7.6	68.4		
2104	72.0	15.5	56.5	26.9	26.9	(6.0)	87.7			18.8	18.8	106.5			7.6	7.6	68.4		
2105	72.0	15.5	56.5	26.9	26.9	(6.0)	87.7			18.8	18.8	106.5			7.6	7.6	68.4		
2106	72.0	15.5	56.5	26.9	26.9	(6.0)	87.7			18.8	18.8	106.5			7.6	7.6	68.4		
2107	72.0	15.5	56.5	26.9	26.9	(6.0)	87.7			18.8	18.8	106.5			7.6	7.6	68.4		
2108	72.0	15.5	56.5	26.9	26.9	(6.0)	87.7			18.8	18.8	106.5			7.6	7.6	68.4		
2109	72.0	15.5	56.5	26.9	26.9	(6.0)	87.7			18.8	18.8	106.5			7.6	7.6	68.4		
2110	72.0	15.5	56.5	26.9	26.9	(6.0)	87.7			18.8	18.8	106.5			7.6	7.6	68.4		
2111	72.0	15.5	56.5	26.9	26.9	(6.0)	87.7			18.8	18.8	106.5			7.6	7.6	68.4		
2112	72.0	15.5	56.5	26.9	26.9	(6.0)	87.7			18.8	18.8	106.5			7.6	7.6	68.4		

Table 48
 Tualatin Valley Water District
 Source Options PV Analysis
 Purchased Water Costs

Year	Metzger Demand from Portland	Portland System w/ Hillsboro						Portland System - TVWD Only					Portland System - Metzger Only (All non-Portland options)						
		Rate Change	Portland Rate	TVWD Contract - ADD (MGD)	Cost of TVWD Water	Cost of Metzger Water	Total Purchased Water Costs	Rate Change	Portland Rate	TVWD Contract - ADD (MGD)	Cost of TVWD Water	Cost of Metzger Water	Total Purchased Water Costs	Rate Change	Portland Rate	TVWD Contract - ADD (MGD)	Cost of TVWD Water	Cost of Metzger Water	Total Purchased Water Costs
2012	0.0	4.85%	\$0.951	13.2			\$6,125,133	4.85%	\$0.951	13.2			\$6,125,133	4.85%	\$0.951	13.2			\$6,125,133
2013	0.0	4.85%	0.997	13.2			6,422,202	4.85%	0.997	13.2			6,422,202	4.85%	0.997	13.2			6,422,202
2014	0.0	4.85%	1.045	13.2			6,733,679	4.85%	1.045	13.2			6,733,679	4.85%	1.045	13.2			6,733,679
2015	0.0	4.85%	1.096	13.2			7,060,263	4.85%	1.096	13.2			7,060,263	4.85%	1.096	13.2			7,060,263
2016	5.2	-4.30%	1.049	19.4	\$7,249,676	\$2,683,989	9,933,665	4.59%	1.147	19.4	\$7,923,634	\$2,933,503	10,857,137	4.59%	1.147	19.4	\$7,923,634	\$2,933,503	10,857,137
2017	5.3	4.85%	1.100	19.4	7,566,828	2,848,619	10,415,448	4.85%	1.202	19.4	8,270,270	3,113,438	11,383,708	4.85%	1.202	19.4	8,270,270	3,113,438	11,383,708
2018	5.4	4.85%	1.153	19.4	7,897,914	3,022,683	10,920,597	4.85%	1.260	19.4	8,632,134	3,303,684	11,935,817	4.85%	1.260	19.4	8,632,134	3,303,684	11,935,817
2019	5.4	4.85%	1.209	19.4	8,243,315	3,206,931	11,450,246	4.85%	1.322	19.4	9,009,645	3,505,060	12,514,705	4.85%	1.322	19.4	9,009,645	3,505,060	12,514,705
2020	5.5	4.85%	1.268	19.4	8,603,643	3,401,940	12,005,583	4.85%	1.386	19.4	9,403,470	3,718,198	13,121,668	4.85%	1.386	19.4	9,403,470	3,718,198	13,121,668
2021	5.6	4.85%	1.329	19.4	8,979,351	3,608,502	12,587,854	4.85%	1.453	19.4	9,814,106	3,943,963	13,758,069	4.85%	1.453	19.4	9,814,106	3,943,963	13,758,069
2022	5.6	4.85%	1.394	19.4	9,369,233	3,829,132	13,198,365	4.85%	1.523	19.4	10,240,233	4,185,102	14,425,335	4.85%	1.523	19.4	10,240,233	4,185,102	14,425,335
2023	5.7	4.85%	1.461	19.4	9,775,613	4,062,872	13,838,485	4.85%	1.597	19.4	10,684,392	4,440,572	15,124,964	4.85%	1.597	19.4	10,684,392	4,440,572	15,124,964
2024	5.8	4.85%	1.532	19.4	10,199,374	4,310,278	14,509,652	4.85%	1.675	19.4	11,147,547	4,710,978	15,858,525	4.85%	1.675	19.4	11,147,547	4,710,978	15,858,525
2025	5.8	4.85%	1.607	19.4	10,641,244	4,572,126	15,213,370	4.85%	1.756	19.4	11,630,495	4,997,168	16,627,663	4.85%	1.756	19.4	11,630,495	4,997,168	16,627,663
2026	5.9	-4.55%	1.533	22.5	12,417,726	4,417,849	16,835,575	1.14%	1.776	22.5	14,381,977	5,116,670	19,498,647	23.90%	2.175	6.6	6,957,085	6,957,085	12,540,562
2027	6.0	4.85%	1.608	22.5	12,966,595	4,685,506	17,652,100	4.85%	1.862	22.5	15,017,667	5,426,665	20,444,332	4.85%	2.281	6.6	7,294,504	7,294,504	13,149,828
2028	6.0	4.85%	1.686	22.5	13,535,698	4,972,529	18,508,227	4.85%	1.952	22.5	15,676,792	5,759,090	21,435,882	4.85%	2.392	6.6	7,648,287	7,648,287	13,787,595
2029	6.1	4.85%	1.768	22.5	14,129,504	5,276,372	19,405,876	4.85%	2.047	22.5	16,364,526	6,110,996	22,475,522	4.85%	2.508	6.6	8,019,229	8,019,229	14,456,293
2030	6.2	4.85%	1.853	22.5	14,749,069	5,597,992	20,347,061	4.85%	2.146	22.5	17,082,096	6,483,489	23,565,585	4.85%	2.629	6.6	8,408,162	8,408,162	15,156,423
2031	6.3	4.85%	1.943	22.5	15,395,497	5,938,397	21,333,894	4.85%	2.250	22.5	17,830,776	6,877,740	24,708,516	4.85%	2.757	6.6	8,815,958	8,815,958	16,012,558
2032	6.3	4.85%	2.037	22.5	16,069,934	6,298,654	22,368,587	4.85%	2.360	22.5	18,611,896	7,294,982	25,906,879	4.85%	2.890	6.6	9,243,532	9,243,532	17,002,346
2033	6.4	4.85%	2.136	22.5	16,773,578	6,679,886	23,453,464	4.85%	2.474	22.5	19,426,843	7,736,519	27,163,362	4.85%	3.031	6.6	9,691,843	9,691,843	18,011,519
2034	6.5	4.85%	2.240	22.5	17,507,674	7,083,283	24,590,957	4.85%	2.594	22.5	20,277,060	8,203,725	28,480,785	4.85%	3.178	6.6	10,161,897	10,161,897	19,318,890
2035	6.6	4.85%	2.348	22.5	18,273,522	7,510,096	25,783,618	4.85%	2.720	22.5	21,164,051	8,698,052	29,862,103	4.85%	3.332	6.6	10,654,749	10,654,749	20,207,354
2036	6.6	-1.28%	2.318	25.5	21,357,805	7,496,334	28,854,138	1.37%	2.757	25.5	25,400,833	8,915,388	34,316,222	3.81%	3.459	7.3	12,259,949	12,259,949	22,056,273
2037	6.7	4.85%	2.431	25.5	22,309,593	7,943,972	30,253,564	4.85%	2.891	25.5	26,532,794	9,447,764	35,980,558	4.85%	3.626	7.3	12,854,557	12,854,557	23,131,995
2038	6.8	4.85%	2.549	25.5	23,303,435	8,417,427	31,720,862	4.85%	3.031	25.5	27,714,771	10,010,844	37,725,616	4.85%	3.802	7.3	13,478,003	13,478,003	24,247,613
2039	6.8	4.85%	2.672	25.5	24,341,202	8,918,121	33,259,324	4.85%	3.178	25.5	28,948,988	10,606,320	39,555,308	4.85%	3.987	7.3	14,131,686	14,131,686	25,423,622
2040	6.9	4.85%	2.802	25.5	25,424,818	9,447,583	34,872,401	4.85%	3.332	25.5	30,237,731	11,236,009	41,473,740	4.85%	4.180	7.3	14,817,072	14,817,072	26,661,664
2041	7.0	4.85%	2.938	25.5	26,556,287	10,007,425	36,563,712	4.85%	3.494	25.5	31,583,387	11,901,829	43,485,217	4.85%	4.383	7.3	15,535,700	15,535,700	28,000,517
2042	7.1	4.85%	3.080	25.5	27,737,703	10,599,349	38,337,052	4.85%	3.663	25.5	32,988,446	12,605,804	45,594,250	4.85%	4.595	7.3	16,289,182	16,289,182	29,304,068
2043	7.1	4.85%	3.230	25.5	28,971,250	11,225,149	40,196,399	4.85%	3.841	25.5	34,455,503	13,350,068	47,805,571	4.85%	4.818	7.3	17,079,207	17,079,207	30,730,364
2044	7.2	4.85%	3.386	25.5	30,259,205	11,886,720	42,145,925	4.85%	4.027	25.5	35,987,267	14,136,874	50,124,141	4.85%	5.052	7.3	17,907,549	17,907,549	32,202,590
2045	7.3	4.85%	3.551	25.5	31,603,944	12,586,058	44,190,002	4.85%	4.223	25.5	37,586,565	14,968,597	52,555,162	4.85%	5.297	7.3	18,776,065	18,776,065	33,781,100
2046	7.3	2.14%	3.627	26.9	34,635,308	12,969,288	47,604,596	3.26%	4.361	26.9	41,643,755	15,593,620	57,237,375	4.37%	5.529	7.6	20,477,130	20,477,130	37,759,240
2047	7.4	4.85%	3.803	26.9	36,184,320	13,729,099	49,913,419	4.85%	4.572	26.9	43,506,209	16,507,179	60,013,388	4.85%	5.797	7.6	21,470,270	21,470,270	40,542,540
2048	7.5	4.85%	3.987	26.9	37,815,124	14,519,096	52,334,219	4.85%	4.794	26.9	45,467,005	17,457,032	62,924,037	4.85%	6.078	7.6	22,511,578	22,511,578	43,422,456
2049	7.5	4.85%	4.180	26.9	39,519,000	15,353,429	54,872,429	4.85%	5.026	26.9	47,515,661	18,460,191	65,975,853	4.85%	6.373	7.6	23,603,390	23,603,390	45,372,463
2050	7.6	4.85%	4.383	26.9	41,299,203	16,234,539	57,533,742	4.85%	5.270	26.9	49,656,087	19,519,594	69,175,682	4.85%	6.682	7.6	24,748,154	24,748,154	47,437,529
2051	7.6	4.85%	4.596	26.9	43,202,214	17,021,914	60,224,128	4.85%	5.526	26.9	52,064,408	20,466,295	72,530,702	4.85%	7.006	7.6	25,948,440	25,948,440	49,590,260
2052	7.6	4.85%	4.819	26.9	45,402,372	17,847,477	63,249,849	4.85%	5.794	26.9	54,589,531	21,458,910	76,048,441	4.85%	7.346	7.6	27,206,939	27,206,939	51,841,500
2053	7.6	4.85%	5.052	26.9	47,604,387	18,713,080	66,317,466	4.85%	6.075	26.9	57,237,124	22,499,667	79,736,791	4.85%	7.702	7.6	28,526,476	28,526,476	54,202,300
2054	7.6	4.85%	5.297	26.9	49,913,199	19,620,664	69,533,863	4.85%	6.369	26.9	60,013,124	23,590,901	83,604,025	4.85%	8.075	7.6	29,910,010	29,910,010	57,820,020
2055	7.6	4.85%	5.554	26.9	52,333,990	20,572,266	72,906,256	4.85%	6.678	26.9	62,923,761	24,735,060	87,658,820	4.85%	8.467	7.6	31,360,645	31,360,645	60,291,190
2056	7.6	4.85%	5.824	26.9	54,872,188	21,570,021	76,442,209	4.85%	7.002	26.9	65,975,563	25,934,710	91,910,273	4.85%	8.878	7.6	32,881,637	32,881,637	63,029,864
2057	7.6	4.85%	6.106	26.9	57,533,489	22,616,167	80,149,656	4.85%	7.342	26.9	69,175,378	27,192,543	96,367,921	4.85%	9.308	7.6	34,476,396	34,476,396	65,890,532
2058	7.6	4.85%	6.402	26.9	60,323,863	23,713,051	84,036,915	4.85%	7.698	26.9	72,530,384	28,511,382	101,041,765	4.85%	9.760	7.6	36,148,501	36,148,501	68,197,002
2059	7.6	4.85%	6.713	26.9	63,249,571	24,863,134	88,112,705	4.85%	8.071	26.9	76,048,107	29,894,184	105,942,291	4.85%	10.233	7.6	37,901,703	37,901,703	70,803,406
2060	7.6	4.85%	7.038	26.9	66,317,175	26,068,996	92,386,171	4.85%	8.462	26.9	79,736,440	31,344,052	111,080,492	4.85%	10.729	7.6	39,739,936	39,739,936	74,528,872
2061	7.6	4.85%	7.380	26.9	69,533,558	27,333,343	96,866,900	4.85%	8.873	26.9	83,603,658	32,864,238	116,467,896	4.85%	11.250	7.6	41,667,323	41,667,323	78,334,646
2062	7.6	4.85%	7.738	26.9	72,905,935	28,659,010	101,564,945	4.85%	9.303	26.9	87,658,435	34,458,154	122,116,589	4.85%	11.795	7.6	43,688,188	43,688,188	81,376,776
2063	7.6	4.85%	8.113	26.9	76,441,873	30,048,972	106,490,845	4.85%</											

Table 48
Tualatin Valley Water District
Source Options PV Analysis
Purchased Water Costs

Year	Metzger Demand from Portland	Portland System w/ Hillsboro						Portland System - TVWD Only					Portland System - Metzger Only (All non-Portland options)						
		Rate Change	Portland Rate	TVWD Contract - ADD (MGD)	Cost of TVWD Water	Cost of Metzger Water	Total Purchased Water Costs	Rate Change	Portland Rate	TVWD Contract - ADD (MGD)	Cost of TVWD Water	Cost of Metzger Water	Total Purchased Water Costs	Rate Change	Portland Rate	TVWD Contract - ADD (MGD)	Cost of TVWD Water	Cost of Metzger Water	Total Purchased Water Costs
2074	7.6	4.85%	13.659	26.9	128,701,647	50,592,064	179,293,711	4.85%	16.423	26.9	154,744,396	60,829,357	215,573,753	4.85%	20.822	7.6		77,123,237	77,123,237
2075	7.6	4.85%	14.322	26.9	134,943,677	53,045,779	187,989,456	4.85%	17.220	26.9	162,249,500	63,779,580	226,029,080	4.85%	21.832	7.6		80,863,714	80,863,714
2076	7.6	4.85%	15.016	26.9	141,488,445	55,618,499	197,106,944	4.85%	18.055	26.9	170,118,600	66,872,890	236,991,490	4.85%	22.891	7.6		84,785,604	84,785,604
2077	7.6	4.85%	15.745	26.9	148,350,635	58,315,996	206,666,631	4.85%	18.930	26.9	178,369,352	70,116,225	248,485,578	4.85%	24.001	7.6		88,897,706	88,897,706
2078	7.6	4.85%	16.508	26.9	155,545,640	61,144,322	216,689,963	4.85%	19.849	26.9	187,020,266	73,516,862	260,537,128	4.85%	25.165	7.6		93,209,245	93,209,245
2079	7.6	4.85%	17.309	26.9	163,089,604	64,109,822	227,199,426	4.85%	20.811	26.9	196,090,749	77,082,430	273,173,179	4.85%	26.386	7.6		97,729,893	97,729,893
2080	7.6	4.85%	18.148	26.9	170,999,450	67,219,148	238,218,598	4.85%	21.821	26.9	205,601,150	80,820,928	286,422,078	4.85%	27.666	7.6		102,469,793	102,469,793
2081	7.6	4.85%	19.028	26.9	179,292,923	70,479,277	249,772,200	4.85%	22.879	26.9	215,572,806	84,740,743	300,313,549	4.85%	29.007	7.6		107,439,578	107,439,578
2082	7.6	4.85%	19.951	26.9	187,988,630	73,897,522	261,886,152	4.85%	23.989	26.9	226,028,087	88,850,669	314,878,756	4.85%	30.414	7.6		112,650,398	112,650,398
2083	7.6	4.85%	20.919	26.9	197,106,078	77,481,552	274,587,630	4.85%	25.152	26.9	236,990,449	93,159,926	330,150,376	4.85%	31.889	7.6		118,113,942	118,113,942
2084	7.6	4.85%	21.934	26.9	206,665,723	81,239,407	287,905,130	4.85%	26.372	26.9	248,484,486	97,678,183	346,162,669	4.85%	33.436	7.6		123,842,468	123,842,468
2085	7.6	4.85%	22.997	26.9	216,689,011	85,179,518	301,868,529	4.85%	27.651	26.9	260,535,984	102,415,575	362,951,558	4.85%	35.057	7.6		129,848,828	129,848,828
2086	7.6	4.85%	24.113	26.9	227,198,428	89,310,725	316,509,153	4.85%	28.992	26.9	273,171,979	107,382,730	380,554,709	4.85%	36.758	7.6		136,146,496	136,146,496
2087	7.6	4.85%	25.282	26.9	238,217,552	93,642,295	331,859,847	4.85%	30.398	26.9	286,420,820	112,590,792	399,011,612	4.85%	38.541	7.6		142,749,601	142,749,601
2088	7.6	4.85%	26.508	26.9	249,771,103	98,183,946	347,955,049	4.85%	31.872	26.9	300,312,230	118,051,446	418,363,676	4.85%	40.410	7.6		149,672,957	149,672,957
2089	7.6	4.85%	27.794	26.9	261,885,001	102,945,868	364,830,869	4.85%	33.418	26.9	314,877,373	123,776,941	438,654,314	4.85%	42.370	7.6		156,932,095	156,932,095
2090	7.6	4.85%	29.142	26.9	274,586,424	107,938,742	382,525,166	4.85%	35.039	26.9	330,148,926	129,780,123	459,929,048	4.85%	44.425	7.6		164,543,302	164,543,302
2091	7.6	4.85%	30.555	26.9	287,903,865	113,173,771	401,077,637	4.85%	36.738	26.9	346,161,148	136,074,459	482,235,607	4.85%	46.579	7.6		172,523,652	172,523,652
2092	7.6	4.85%	32.037	26.9	301,867,203	118,662,699	420,529,902	4.85%	38.520	26.9	362,949,964	142,674,070	505,624,034	4.85%	48.838	7.6		180,891,049	180,891,049
2093	7.6	4.85%	33.591	26.9	316,507,762	124,417,840	440,925,602	4.85%	40.388	26.9	380,553,037	149,593,762	530,146,800	4.85%	51.207	7.6		189,664,265	189,664,265
2094	7.6	4.85%	35.220	26.9	331,858,389	130,452,105	462,310,494	4.85%	42.347	26.9	399,009,860	156,849,060	555,858,919	4.85%	53.690	7.6		198,862,982	198,862,982
2095	7.6	4.85%	36.929	26.9	347,953,521	136,779,032	484,732,553	4.85%	44.401	26.9	418,361,838	164,456,239	582,818,077	4.85%	56.294	7.6		208,507,837	208,507,837
2096	7.6	4.85%	38.720	26.9	364,829,266	143,412,815	508,242,082	4.85%	46.554	26.9	438,652,387	172,432,367	611,084,754	4.85%	59.025	7.6		218,620,467	218,620,467
2097	7.6	4.85%	40.597	26.9	382,523,486	150,368,337	532,891,823	4.85%	48.812	26.9	459,927,028	180,795,336	640,722,364	4.85%	61.887	7.6		229,223,559	229,223,559
2098	7.6	4.85%	42.566	26.9	401,075,875	157,661,201	558,737,076	4.85%	51.180	26.9	482,233,489	189,563,910	671,797,399	4.85%	64.889	7.6		240,340,902	240,340,902
2099	7.6	4.85%	44.631	26.9	420,528,055	165,307,770	585,835,824	4.85%	53.662	26.9	505,621,813	198,757,760	704,379,573	4.85%	68.036	7.6		251,997,436	251,997,436
2100	7.6	4.85%	46.796	26.9	440,923,665	173,325,196	614,248,862	4.85%	56.265	26.9	530,144,471	208,397,511	738,541,982	4.85%	71.336	7.6		264,219,311	264,219,311
2101	7.6	4.85%	49.065	26.9	462,308,463	181,731,468	644,039,932	4.85%	58.993	26.9	555,856,478	218,504,791	774,361,268	4.85%	74.796	7.6		277,033,948	277,033,948
2102	7.6	4.85%	51.445	26.9	484,730,424	190,545,445	675,275,868	4.85%	61.855	26.9	582,815,517	229,102,273	811,917,790	4.85%	78.423	7.6		290,470,094	290,470,094
2103	7.6	4.85%	53.940	26.9	508,239,849	199,786,899	708,026,748	4.85%	64.855	26.9	611,082,069	240,213,733	851,295,802	4.85%	82.227	7.6		304,557,894	304,557,894
2104	7.6	4.85%	56.556	26.9	532,889,482	209,476,563	742,366,045	4.85%	68.000	26.9	640,719,550	251,864,099	892,583,649	4.85%	86.215	7.6		319,328,952	319,328,952
2105	7.6	4.85%	59.299	26.9	558,734,622	219,636,177	778,370,798	4.85%	71.298	26.9	671,794,448	264,079,508	935,873,956	4.85%	90.396	7.6		334,816,406	334,816,406
2106	7.6	4.85%	62.175	26.9	585,833,251	230,288,531	816,121,782	4.85%	74.756	26.9	704,376,479	276,887,364	981,263,843	4.85%	94.780	7.6		351,055,002	351,055,002
2107	7.6	4.85%	65.190	26.9	614,246,164	241,457,525	855,703,688	4.85%	78.382	26.9	738,538,738	290,316,401	1,028,855,139	4.85%	99.377	7.6		368,081,169	368,081,169
2108	7.6	4.85%	68.352	26.9	644,037,102	253,168,215	897,205,317	4.85%	82.183	26.9	774,357,867	304,396,747	1,078,754,614	4.85%	104.197	7.6		385,933,106	385,933,106
2109	7.6	4.85%	71.667	26.9	675,272,902	265,446,873	940,719,775	4.85%	86.169	26.9	811,914,223	319,159,989	1,131,074,212	4.85%	109.250	7.6		404,650,861	404,650,861
2110	7.6	4.85%	75.143	26.9	708,023,638	278,321,047	986,344,684	4.85%	90.348	26.9	851,292,063	334,639,248	1,185,931,311	4.85%	114.549	7.6		424,276,428	424,276,428
2111	7.6	4.85%	78.787	26.9	742,362,784	291,819,617	1,034,182,401	4.85%	94.730	26.9	892,579,728	350,869,252	1,243,448,980	4.85%	120.105	7.6		444,853,835	444,853,835
2112	7.6	4.85%	82.609	26.9	778,367,379	305,972,869	1,084,340,248	4.85%	99.325	26.9	935,869,845	367,886,411	1,303,756,256	4.85%	125.930	7.6		466,429,246	466,429,246