

# Appendix B

## Water Usage Estimation Method Documentation

<b>Sole Source Aquifer Petition - Water Use Calculation Spreadsheet</b>									
for Troutdale and Unconsolidated Alluvium Aquifer System									
in Clark County, Washington									
Clark County, Washington Water Usage in million gallons per day, average (domestic only, from USGS)									
	Population	Groundwater	Surface Water	Total	Per Capita (gpd/person)	USGS water usage breakdown			
						Domestic	Industrial	Losses/Other	Self Supplied
Public System	253250	27.83	0.28	28.11	111.00				7.73
Self Supplied	91990	7.73		7.73	84.03	28.11	1.76	9.7	7.73
<b>Total</b>	<b>345240</b>	<b>35.56</b>	<b>0.28</b>	<b>35.84</b>	<b>103.81</b>				
Note: Surface water calculated as 20% of Camas total usage. Camas usage calculated as population x per capita rate.									
Portion of water usage in Clark County outside SSA									
						Systems excluded: Woodland Mobile HP, Yacolt, Larch Corrections, Amboy, Brookside, Magna Vista, Washougal and part of Camas			
Public System	16,736	1.77	0.085	1.86	111.00	Population determined using 2000 Census blocks for area. Excluded system populations listed below.			
Self Supplied	23,264	1.95	0.000	1.95	84.03				
<b>Total</b>	<b>40000</b>	<b>3.73</b>	<b>0.085</b>	<b>3.81</b>	<b>95.31</b>				





<b>Camas Source/Usage Estimation (Estimated for 2000)</b>														
Population Served (2000 Census)														
In SSA		Out SSA		Total										
8715		3819		12534										
Camas water usage in SSA														
		Gndwtr		0.77										
		Surf Wtr		0.19										
		Total		0.97										
Total Camas water usage (pop x per capita rate)														
		1.39		Mg/d										
Water used from SSA (system capacity % x total usage)						Number of people served:								
		0.10		Mg/d		From in SSA		858						
						From out SSA		7857						
Source capacity (gpm) by location (one of 9 sources active in 2000 was in SSA) (DOH SENTRY database)														
In SSA		Out SSA		Total		Pumping capacity of sources								
Gndwtr		Gndwtr		Surf Wtr		Total Out		Surf Wtr		Source #	Gndwtr	Act. Date	Inact. Date	Source #
650		8500		1000		9500		500		1	950	1970	2003	3
								500		2	950	1970	2003	4
		% of capacity in SSA		6.84%							1100	1970		5
											600	1970		6
				% of usage Surf Wtr		20.0%		(reported by City of Camas)			1400	1970		7
											40		1994	12
											1300	2003		14
											1300	2003		15

<b>Additional Data</b>							
Total population outside SSA		40000	(from 2000 Census Clark Co block map overlain on SSA)				
Total Water from TUAAS in the SSA		30.96					
Population served by TUAAS water		297383	97.43%				