

Water Resources Planning Guideline supply-demand workbook - Version 2.8

Instructions for completing these tables is contained within chapters 13 - 22 of the Water Resources Planning Guideline

The Guideline and tables are available on the Environment Agency website at www.environment-agency.gov.uk/business/sectors/39687.aspx

All queries on the content of this workbook should be sent to water-company-plans@ea.gov.uk

Yellow shaded cells are calculated cells. Do not input data to these cells.

Blue shaded cells represent the base-year data (**Scenario Year 2006-07**)

Shaded cells do not require any input

Shaded cells require input where data is available

Resource Zone and sign off information:

Please enter the information below to identify this workbook. This will be copied through to all work sheets.

Company: Thames Water
 Resource Zone Name: Henley
 Resource Zone Number: 4 of 6
 Planning Scenario Name: Dry Year Annual Average
 Chosen Level of Service: Company Preferred Level of Service

Responsible Officer: David Spiller Signed: _____ Dated: 05/12/2011

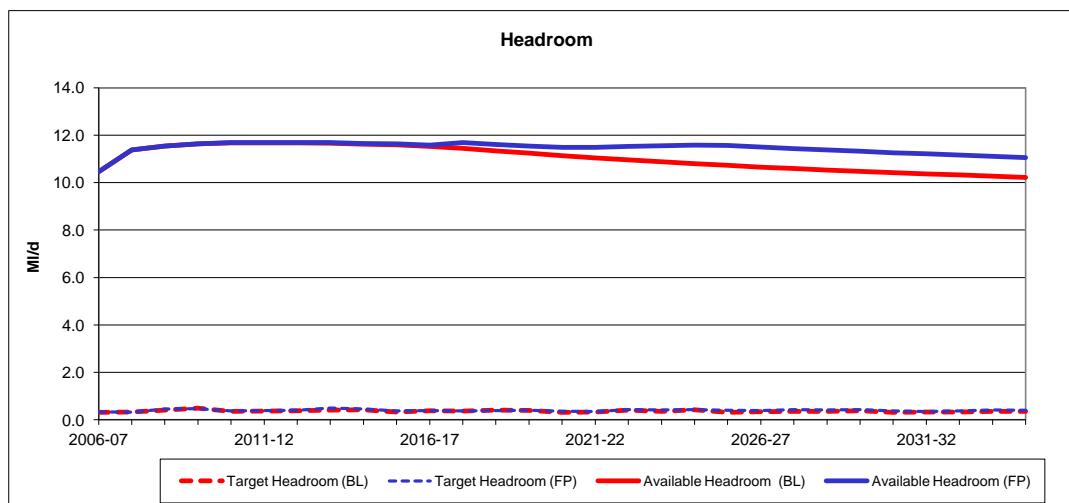
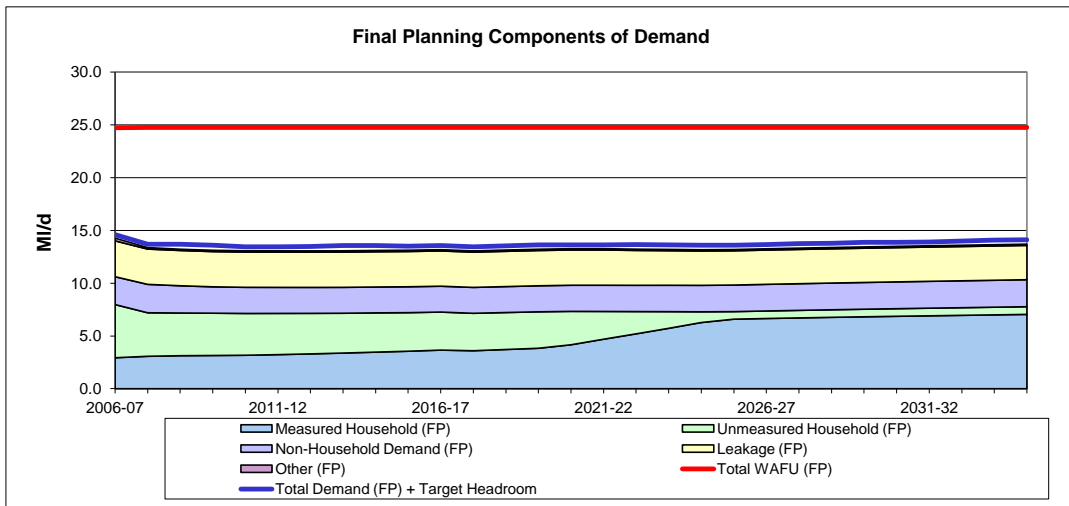
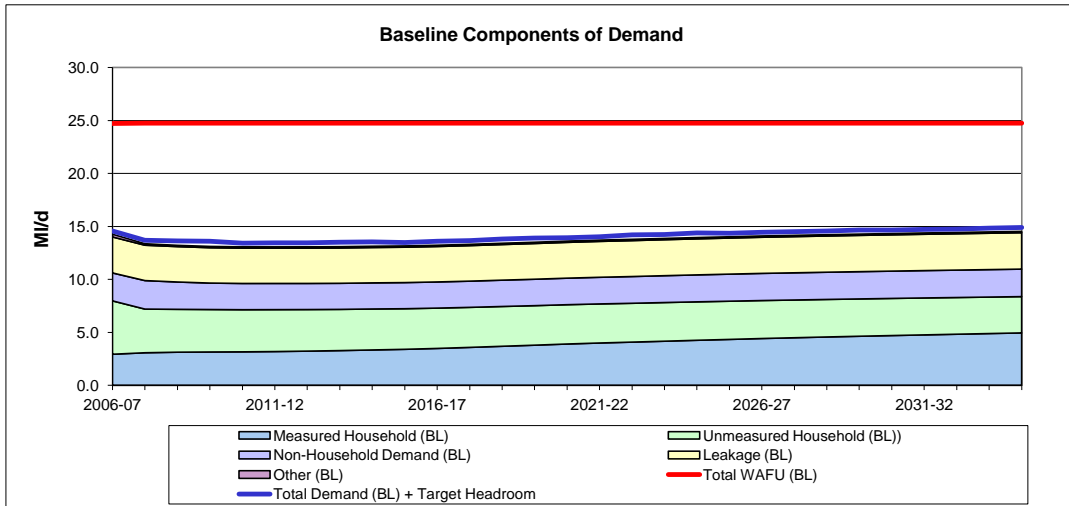
Version: Draft Final WRMP

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Company:	Thames Water
Resource Zone Name:	Henley
Resource Zone Number:	4 of 6
Planning Scenario Name:	Dry Year Annual Average
Chosen Level of Service:	Company Preferred Level of Service

Table WRP1a-BL: Baseline WRP1 supporting transfer and DO reductions data

ROW Ref.	DERIVATION	DESCRIPTION <i>(insert/delete non-numbered lines to suit)</i>	UNITS	Scenario	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	2032-33	2033-34	2034-35		
				Year 2006-07																														
2a _{BL}	Input as appropriate	Reductions in Baseline Deployable Output. Total here and specify below	M/d	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
		<i>Climate change</i>	M/d	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
		<i>Sustainability Reduction</i>	M/d	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
		<i>Network Constraints</i>	M/d	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
			M/d																															
			M/d																															
7a _{BL}	Input as appropriate	Baseline Raw Water Exported (existing). Total here and specify below	M/d	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
		to	M/d																															
		to	M/d																															
		to	M/d																															
8a _{BL}	Input as appropriate	Baseline Raw Water Imported (existing). Total here and specify below	M/d	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
		from	M/d																															
		from	M/d																															
		from	M/d																															
10a _{BL}	Input as appropriate	Baseline Non Potable Supplies (existing). Total here and specify below	M/d	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
		to	M/d																															
		to	M/d																															
		to	M/d																															
		to	M/d																															
12a _{BL}	Input as appropriate	Baseline Potable Water Exported. Total here and specify below	M/d	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
		to	M/d																															
		to	M/d																															
		to	M/d																															
		to	M/d																															
		to	M/d																															
13a _{BL}	Input as appropriate	Baseline Potable Water Imported. Total here and specify below	M/d	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
		from	M/d																															
		from	M/d																															
		from	M/d																															
		from	M/d																															
		from	M/d																															

Company: Thames Water

Resource Zone Name: Henley

Resource Zone Number: 4 of 6

Planning Scenario Name: Dry Year Annual Average

Chosen Level of Service: Company Preferred Level of Service

Table WRP2: Feasible list of water management options

WATER MANAGEMENT OPTION COST AND SOLUTION - TO BE COMPLETED FOR ALL FEASIBLE OPTIONS													
ROW Ref.	DERIVATION	OPTION DESCRIPTION <i>(insert / delete non-numbered lines to suit)</i>	OPTION REFERENCE No.	WAFU ON FULL IMPLEMENTATION (M/d)	EARLIEST POTENTIAL OPTION START DATE (YEAR)	NPV of WAFU (M)	CAPEX NPV (£000)	OPEX NPV (£000)	NPV of OPEX SAVINGS (£000)	SOCIAL & ENV. NPV (£000)	TOTAL NPV (£000)	AIC (p/M ³)	AISC (p/M ³)
54	Input as appropriate	Customer Side Management, Specify Below....											
		Change of Occupier (Compulsory Current Powers)		0.77	2010/11	3648.13	2099.99	463.96	-122.83	67.08	2631.04	66.91	68.75
		Targetted compulsory metering (New Powers)		0.77	2010/11	3648.13	1425.25	386.64	-122.83	67.08	1878.97	46.30	48.14
		Enhanced water efficiency		10.71	2010/11	38511.57	0.00	57562.69	-1177.98	294.26	57856.95	146.41	147.17
		Optant Metering (Included in Baseline)		0.04	2010/11	252.42	920.55	103.80	-3.66	67.08	1091.44	404.37	430.94
55	Input as appropriate	Distribution Side Management, Specify Below....											
56	Input as appropriate	Production Side Management, Specify Below....											
57	Input as appropriate	Resource Management, Specify Below....											
		Sheeplands Licence Disaggregation	PR09 HEN 01	0	2013	0.00	13433.53	552.07	0.00	809.34	14794.94	#DIV/0!	#DIV/0!

Company:	<u>Thames Water</u>
Resource Zone Name	<u>Henley</u>
Resource Zone Number:	<u>4 of 6</u>
Planning Scenario Name:	<u>Dry Year Annual Average</u>
Chosen Level of Service:	<u>Company Preferred Level of Service</u>

Table WRP4-FP: Final planning supply-demand components

ROW Ref.	DERIVATION	DESCRIPTION	UNITS	Scenario Year																												
				2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	2032-33	2033-34	2034-35
BASIC RESOURCES FINAL PLANNING																																
1 _{FP}	Input	Deployable Output	Mld	25.80	25.80	25.80	25.80	25.80	25.80	25.80	25.80	25.80	25.80	25.80	25.80	25.80	25.80	25.80	25.80	25.80	25.80	25.80	25.80	25.80	25.80	25.80	25.80	25.80	25.80	25.80		
2 _{FP}	WRP4a-FP 2a _{FP}	Reductions in Deployable Output	Mld	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
3 _{FP}	Input	Outage Allowance	Mld	1.07	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05		
4 _{FP}	0 _{FP} +11 _{FP}	Process Losses	Mld	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
5 _{FP}	1 _{FP} +2 _{FP} +3 _{FP} +4 _{FP}	Water Available For Use (own sources)	Mld	24.73	24.75	24.75	24.75	24.75	24.75	24.75	24.75	24.75	24.75	24.75	24.75	24.75	24.75	24.75	24.75	24.75	24.75	24.75	24.75	24.75	24.75	24.75	24.75	24.75	24.75	24.75		
RAW WATER FINAL PLANNING																																
6 _{FP}	Input	Raw Water Abstracted	Mld	14.48	14.20	14.04	13.93	13.88	13.88	13.87	13.88	13.92	13.94	13.99	13.87	13.96	14.04	14.09	14.09	14.05	14.02	13.99	14.01	14.08	14.15	14.21	14.27	14.33	14.39	14.44	14.49	14.55
7 _{FP}	WRP4a-FP 7a _{FP}	Raw Water Exported	Mld	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
8 _{FP}	WRP4a-FP 8a _{FP}	Raw Water Imported	Mld	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9 _{FP}	Input	Raw Water Losses and Operational Use	Mld	0.02	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.09
10 _{FP}	WRP4a-FP 10a _{FP}	Non Potable Supplies	Mld	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
POTABLE WATER TO POINT OF DELIVERY FINAL PLANNING																																
11 _{FP}	Input	Treatment Works Losses and Operational Use	Mld	0.19	0.75	0.74	0.73	0.73	0.73	0.73	0.73	0.73	0.74	0.73	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.75	0.75	0.75	0.76	0.76	0.76	0.77
12 _{FP}	WRP4a-FP 12a _{FP}	Potable Water Exported	Mld	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13 _{FP}	WRP4a-FP 13a _{FP}	Potable Water Imported	Mld	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14 _{FP}	Input	Distribution Input	Mld	14.27	13.37	13.22	13.12	13.07	13.06	13.06	13.07	13.10	13.12	13.17	13.06	13.14	13.22	13.27	13.27	13.22	13.20	13.17	13.19	13.26	13.32	13.38	13.44	13.49	13.54	13.59	13.65	13.70
15 _{FP}	Input	Distribution Losses	Mld	2.44	2.40	2.40	2.40	2.41	2.41	2.41	2.41	2.41	2.41	2.41	2.41	2.41	2.41	2.41	2.41	2.38	2.36	2.34	2.34	2.34	2.34	2.34	2.34	2.34	2.34	2.34	2.34	2.34
16 _{FP}	Input	Distribution System Operational Use	Mld	0.06	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
17 _{FP}	14 _{FP} +15 _{FP} +16 _{FP}	Water Delivered	Mld	11.76	10.93	10.78	10.68	10.63	10.62	10.62	10.64	10.64	10.64	10.64	10.64	10.64	10.64	10.64	10.64	10.64	10.64	10.64	10.64	10.64	10.64	10.64	10.64	10.64	10.64	10.64	10.64	10.64
POTABLE WATER CUSTOMER USE FINAL PLANNING																																
18 _{FP}	Input	Unmeasured Household - Population	000s	26.329	24.796	24.447	24.296	24.083	23.828	23.484	23.127	22.834	22.473	22.171	21.842	21.544	21.221	19.464	16.236	13.003	9.735	6.204	4.333	4.329	4.318	4.312	4.307	4.303	4.298	4.292	4.286	4.281
19 _{FP}	Input	Unmeasured Household - Properties	000s	10.087	9.718	9.592	9.476	9.328	9.149	8.972	8.800	8.631	8.468	8.309	8.152	7.999	7.850	7.136	5.853	4.573	3.297	2.026	1.391	1.391	1.391	1.391	1.391	1.391	1.391	1.391	1.391	1.391
20 _{FP}	18 _{FP} /19 _{FP}	Unmeasured Household - Occupancy Rate	h/pt	2.61	2.55	2.55	2.56	2.58	2.60	2.62	2.63	2.65	2.65	2.67	2.68	2.69	2.70	2.73	2.77	2.84	2.95	3.06	3.11	3.11	3.10	3.10	3.10	3.09	3.09	3.08	3.08	3.08
21 _{FP}	WRP6a-6.1 _{FP}	Measured Household - Population	000s	18.627	20.191	20.605	20.807	21.052	21.488	21.985	22.526	23.147	23.731	24.464	25.250	26.074	26.861	29.135	32.740	36.226	39.812	43.639	45.747	46.017	46.195	46.383	46.546	46.717	46.875	47.017	47.182	47.349
22 _{FP}	WRP6a-6.2 _{FP}	Measured Household - Properties	000s	8.880	9.158	9.395	9.504	9.622	9.803	10.043	10.307	10.581	10.869	11.197	11.560	11.926	12.292	13.226	14.686	16.107	17.521	18.935	19.711	19.847	19.971	20.077	20.171	20.264	20.355	20.444	20.540	20.638
23 _{FP}	21 _{FP} /22 _{FP}	Measured Household - Occupancy Rate	h/pt	2.10	2.20	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.18	2.18	2.19	2.19	2.20	2.23	2.25	2.27	2.30	2.32	2.32	2.31	2.31	2.31	2.30	2.30	2.30	2.29	
24 _{FP}	Input	Unmeasured Non Household - Population	000s	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
25 _{FP}	Input	Unmeasured Non Household - Properties	000s	0.061	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075
26 _{FP}	Input	Measured Non Household - Population	000s	2.056	2.172	2.172	2.172	2.172	2.172	2.172	2.172	2.172	2.172	2.172	2.172	2.172	2.172	2.172	2.172	2.172	2.172	2.172	2.172	2.172	2.172	2.172	2.172	2.172	2.172	2.172	2.172	2.172
27 _{FP}	Input	Measured Non Household - Properties	000s	1.242	1.212	1.227	1.242	1.258	1.273	1.288	1.303	1.318	1.334	1.349	1.364	1.379	1.395	1.410	1.425	1.440	1.455	1.471	1.486	1.501	1.516	1.531	1.547	1.562	1.577	1.592	1.608	1.623
28 _{FP}	18 _{FP} +21 _{FP} +24 _{FP} +26 _{FP}	Total Population	000s	47.012	47.159	47.224	47.275	47.306	47.488	47.640	47.825	48.007	48.263	48.789	50.253	50.771	51.147	51.401	51.719	52.015	52.252	52.517	52.684	52.867	53.025	53.192	53.345	53.480	53.640	53.801		
29 _{FP}	Input	Void Households	000s	0.318	0.374	0.374	0.374	0.374	0.374	0.374	0.374	0.374	0.374	0.374	0.374	0.374	0.374	0.374	0.374	0.374	0.374	0.374	0.374	0.374	0.374	0.374	0.374	0.374	0.374	0.374	0.374	
30 _{FP}	Input	Void Non Households	000s	0.135	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.117	
30.1 _{FP}	22 _{FP} /(22 _{FP} +19 _{FP} +19 _{FP})	Total Household Metering penetration (excl. voids)	%	47%	49%	49%	50%	51%	52%	53%	54%	55%	56%	57%	59%	60%	61%	65%	72%	78%	84%	90%	93%	93%	93%	94%	94%	94%	94%	94%	94%	
30.2 _{FP}	22 _{FP} /(22 _{FP} +19 _{FP} +29 _{FP})	Total Household Metering penetration (incl. voids)	%	46%	49%	49%	49%	50%	51%	52%	53%	54%	55%	56%	58%	59%	60%	64%	70%	77%	83%	89%	92%	92%	92%	92%	92%	92%	92%	92%	92%	
31 _{FP}	19 _{FP} +22 _{FP} +25 _{FP} +27 _{FP} +29 _{FP} +30 _{FP}	Total Properties	000s	20.723	20.654	20.780	20.789	20.774	20.792	20.869	20.976	21.098	21.237	21.421	21.643	21.871	22.103	22.338	22.531	22.687	22.840	22.997	23.154	23.306	23.444	23.566	23.675					

Table WRP5: Baseline resource zone deployable output reconciliation

Row Ref	Derivation	Licence number	Source name	Source type (GW/SW/Res/Conj. use)	Dry year deployable output (Ml/d)	Critical period deployable output (Ml/d)	Annual licenced quantity (Ml/d)	Constraint	Length of record assessed (Years)	Critical event (Year)
5.1	Input	28/39/23/0008	Greys Road	GW	3.9		3.86	L	1972-1999	
5.2	Input	28/39/23/0010	Harpsden T *	GW	13		22.33	Q / L	1985-1997	
5.3	Input	28/39/24/0020	Sheeplands *	GW	8.9		**	Q / L	1929-1997	
5.4	Input									
5.5	Input		* Licenced volume or DO aggregated with another source							
5.6	Input		** Aggregated with the source value above it							
5.7	Input									
5.8	Input		L = Licence							
5.9	Input		Q = Quality							
5.10	Input		P = Pump Size or Depth							
5.11	Input		GWL = Low Groundwater Levels							
5.12	Input		B = Borehole depth or restriction							
5.13	Input		T = Treatment							
5.14	Input		RWL = Rest Water Level							
5.15	Input		PWL = Pumping Water Level							
5.16	Sum (5.1-6.40) Total reconciled DO				25.80	0.00	26.19			

Company:	<u>Thames Water</u>
Resource Zone Name	<u>Henley</u>
Resource Zone Number:	<u>4 of 6</u>
Planning Scenario Name:	<u>Dry Year Annual Average</u>
Chosen Level of Service:	<u>Company Preferred Level</u> of Service

Table WRP6: Baseline breakdown of measured households

Row Ref	Derivation	Description	Units	Scenario Year	Year																												
					2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	2032-33	2033-34	2034-35
6.1 _{BL}	6.5 _{BL} +6.9 _{BL} +6.13 _{BL} +6.17 _{BL} +6.21 _{BL} +6.25 _{BL}	Total	Population	000's	18.63	20.19	20.61	20.81	20.95	21.20	21.50	21.86	22.30	22.72	23.29	23.92	24.59	25.23	25.91	26.46	26.91	27.38	27.85	28.28	28.73	29.11	29.48	29.82	30.17	30.51	30.83	31.18	31.52
6.2 _{BL}	6.6 _{BL} +6.10 _{BL} +6.14 _{BL} +6.18 _{BL} +6.22 _{BL} +6.26 _{BL}	Total	Properties	000's	8.88	9.16	9.39	9.50	9.58	9.68	9.84	10.02	10.23	10.45	10.71	11.01	11.32	11.64	11.95	12.23	12.46	12.70	12.93	13.17	13.40	13.62	13.83	14.02	14.21	14.39	14.58	14.77	14.96
6.3 _{BL}	6.1 _{BL} /6.2 _{BL}	Total	Occupancy	h/prop	2.10	2.20	2.19	2.19	2.19	2.19	2.19	2.18	2.18	2.17	2.17	2.17	2.17	2.17	2.17	2.16	2.16	2.16	2.15	2.15	2.14	2.14	2.13	2.13	2.12	2.12	2.11	2.11	
6.5 _{BL}	Input	Meter optants	Population	000's		0.16	0.35	0.52	0.68	0.83	0.99	1.15	1.30	1.46	1.61	1.77	1.92	2.08	2.23	2.38	2.54	2.69	2.84	3.00	3.15	3.31	3.46	3.62	3.77	3.93	4.08	4.23	
6.6 _{BL}	Input	Meter optants	Properties	000's		0.10	0.22	0.32	0.42	0.51	0.61	0.71	0.80	0.90	0.99	1.09	1.19	1.28	1.38	1.47	1.57	1.67	1.76	1.86	1.95	2.05	2.15	2.24	2.34	2.43	2.53	2.63	
6.7 _{BL}	6.5 _{BL} /6.6 _{BL}	Meter optants	Occupancy	h/prop	#DIV/0!	1.61	1.61	1.61	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.61	1.61	1.61	1.61	1.61	1.61	1.61	1.61	1.61	1.61	1.61	1.61	1.61	1.61
6.8 _{BL}	Input	Meter optants	pcc	1/h/d		139.91	139.78	139.44	139.18	138.97	138.99	138.99	139.23	139.35	139.76	140.26	140.83	141.54	142.31	143.32	144.30	145.29	146.27	147.30	148.46	149.62	150.69	151.64	152.54	153.41	154.26	155.20	
6.9 _{BL}	Input	New properties	Population	000's		0.32	0.31	0.24	0.24	0.39	0.61	0.86	1.15	1.55	2.04	2.55	3.06	3.58	3.99	4.32	4.65	4.98	5.30	5.61	5.89	6.13	6.34	6.56	6.76	6.96	7.17	7.39	
6.10 _{BL}	Input	New properties	Properties	000's		0.14	0.13	0.10	0.10	0.16	0.26	0.36	0.49	0.66	0.86	1.08	1.29	1.51	1.69	1.83	1.97	2.11	2.25	2.39	2.51	2.62	2.71	2.81	2.90	2.98	3.08	3.18	
6.11 _{BL}	6.9 _{BL} /6.10 _{BL}	New properties	Occupancy	h/prop	#DIV/0!	2.35	2.36	2.36	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.36	2.36	2.35	2.35	2.35	2.34	2.34	2.34	2.33	2.33	2.33	2.33	
6.12 _{BL}	Input	New properties	pcc	1/h/d		144.96	144.68	144.93	144.58	141.48	138.86	136.68	134.81	133.36	132.63	132.35	132.34	132.57	133.00	133.75	134.48	135.21	135.98	136.82	137.80	138.81	139.76	140.58	141.35	142.09	142.78	143.47	
6.13 _{BL}	Input	Metering on change of occupancy	Population	000's		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6.14 _{BL}	Input	Metering on change of occupancy	Properties	000's		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6.15 _{BL}	6.13 _{BL} /6.14 _{BL}	Metering on change of occupancy	Occupancy	h/prop	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
6.16 _{BL}	Input	Metering on change of occupancy	pcc	1/h/d		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6.17 _{BL}	Input	Selective metering	Population	000's																													
6.18 _{BL}	Input	Selective metering	Properties	000's																													
6.19 _{BL}	6.17 _{BL} /6.18 _{BL}	Selective metering	Occupancy	h/prop	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
6.20 _{BL}	Input	Selective metering	pcc	1/h/d																													
6.21 _{BL}	Input	Compulsory metering	Population	000's																													
6.22 _{BL}	Input	Compulsory metering	Properties	000's																													
6.23 _{BL}	6.21 _{BL} /6.22 _{BL}	Compulsory metering	Occupancy	h/prop	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
6.24 _{BL}	Input	Compulsory metering	pcc	1/h/d																													
6.25 _{BL}	Input	Existing Metering	Population	000's	18.63	20.19	20.12	20.15	20.20	20.28	20.28	20.26	20.30	20.27	20.28	20.27	20.27	20.25	20.25	20.24	20.20	20.20	20.18	20.14	20.12	20.07	20.04	20.02	20.00	19.97	19.95	19.92	19.90
6.26 _{BL}	Input	Existing Metering	Properties	000's	8.88	9.16	9.16	9.16	9.16	9.16	9.16	9.16	9.16	9.16	9.16	9.16	9.16	9.16	9.16	9.16	9.16	9.16	9.16	9.16	9.16	9.16	9.16	9.16	9.16	9.16	9.16	9.16	
6.27 _{BL}	6.25 _{BL} /6.26 _{BL}	Existing Metering	Occupancy	h/prop	2.10	2.20	2.20	2.20	2.21	2.21	2.21	2.21	2.22	2.21	2.21	2.21	2.21	2.21	2.21	2.21	2.21	2.21	2.20	2.20	2.19	2.19	2.19	2.18	2.18	2.18	2.18	2.17	
6.28 _{BL}	Input	Existing Metering	pcc	1/h/d	152.25	152.03	151.62	151.23	150.91	150.82	150.88	150.97	151.28	151.66	152.36	153.14	154.06	155.03	156.06	157.13	158.11	159.13	160.21	161.19	162.20	163.04	163.80	164.46	165.05	165.59	166.03	166.36	

Company:	Thames Water
Resource Zone Name:	Henley
Resource Zone Number:	4 of 6
Planning Scenario Name:	Dry Year Annual Average
Chosen Level of Service:	Company Preferred Level of Service

Table WRP6a: Final planning breakdown of measured households

Row Ref	Derivation	Description	Units	Scenario Year	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	2032-33	2033-34	2034-35	
6.1 _{pp}	6.5 _{pp} +6.9 _{pp} +6.13 _{pp} +6.17 _{pp} +6.21 _{pp} +6.25 _{pp}	Total	Population	000's	18.63	20.19	20.61	20.81	21.05	21.49	21.98	22.53	23.15	23.73	24.46	25.25	26.07	26.86	29.14	32.74	36.23	39.81	43.64	45.75	46.02	46.19	46.38	46.55	46.72	46.88	47.02	47.18	47.35	
6.2 _{pp}	6.6 _{pp} +6.10 _{pp} +6.14 _{pp} +6.18 _{pp} +6.22 _{pp} +6.26 _{pp}	Total	Properties	000's	8.88	9.16	9.39	9.50	9.62	9.80	10.04	10.31	10.58	10.87	11.20	11.56	11.93	12.29	13.23	14.69	16.11	17.52	18.93	19.71	19.85	19.97	20.08	20.17	20.26	20.35	20.44	20.54	20.64	
6.3 _{pp}	6.1 _{pp} /6.2 _{pp}	Total	Occupancy	h/prop	2.10	2.20	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.18	2.18	2.18	2.19	2.19	2.20	2.23	2.25	2.27	2.30	2.32	2.32	2.31	2.31	2.31	2.30	2.30	2.30	2.29		
6.5 _{pp}	Input	Meter optants	Population	000's			0.16	0.35	0.54	0.73	0.91	1.09	1.26	1.42	1.58	1.73	1.88	2.02	2.15	2.28	2.41	2.54	2.69	2.78	2.78	2.77	2.77	2.76	2.76	2.76	2.75	2.75	2.75	
6.6 _{pp}	Input	Meter optants	Properties	000's			0.10	0.22	0.33	0.45	0.56	0.67	0.78	0.88	0.98	1.07	1.16	1.25	1.33	1.41	1.49	1.57	1.64	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68
6.7 _{pp}	6.5 _{pp} /6.6 _{pp}	Meter optants	Occupancy	h/prop	#DIV/0!	#DIV/0!	1.61	1.61	1.61	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.64	1.66	1.66	1.65	1.65	1.65	1.65	1.65	1.64	1.64	1.64	1.64
6.8 _{pp}	Input	Meter optants	pcc	l/h/d			139.91	139.78	139.30	139.08	138.91	138.93	138.92	139.13	139.21	132.58	132.95	133.36	133.83	134.28	134.91	135.46	135.44	135.57	136.58	137.72	138.85	139.90	140.84	141.73	142.61	143.47	144.36	
6.9 _{pp}	Input	New properties	Population	000's			0.32	0.31	0.24	0.24	0.39	0.61	0.86	1.15	1.55	2.04	2.55	3.06	3.58	4.00	4.32	4.65	4.97	5.28	5.60	5.87	6.11	6.32	6.54	6.74	6.94	7.15	7.37	
6.10 _{pp}	Input	New properties	Properties	000's			0.14	0.13	0.10	0.10	0.16	0.26	0.36	0.49	0.66	0.86	1.08	1.29	1.51	1.69	1.83	1.97	2.11	2.25	2.39	2.51	2.62	2.71	2.81	2.90	2.98	3.08	3.18	
6.11 _{pp}	6.9 _{pp} /6.10 _{pp}	New properties	Occupancy	h/prop	#DIV/0!	#DIV/0!	2.35	2.36	2.36	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.36	2.36	2.36	2.35	2.34	2.34	2.34	2.33	2.33	2.33	2.32	2.32	2.32
6.12 _{pp}	Input	New properties	pcc	l/h/d			144.96	144.68	144.74	144.42	141.42	138.84	136.68	134.82	133.37	125.98	125.65	125.63	125.82	126.29	126.72	127.12	127.75	128.52	129.42	130.33	131.19	131.92	132.61	133.27	133.90	134.54		
6.13 _{pp}	Input	Metering on change off occupancy	Population	000's			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6.14 _{pp}	Input	Metering on change off occupancy	Properties	000's			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6.15 _{pp}	6.13 _{pp} /6.14 _{pp}	Metering on change off occupancy	Occupancy	h/prop	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
6.16 _{pp}	Input	Metering on change off occupancy	pcc	l/h/d			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6.17 _{pp}	Input	Selective metering	Population	000's																														
6.18 _{pp}	Input	Selective metering	Properties	000's																														
6.19 _{pp}	6.17 _{pp} /6.18 _{pp}	Selective metering	Occupancy	h/prop	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
6.20 _{pp}	Input	Selective metering	pcc	l/h/d																														
6.21 _{pp}	Input	Compulsory metering	Population	000's					0.08	0.24	0.40	0.56	0.73	0.89	1.05	1.21	1.37	1.53	3.15	6.22	9.29	12.40	15.82	17.61	17.59	17.55	17.52	17.50	17.49	17.47	17.44	17.42	17.40	
6.22 _{pp}	Input	Compulsory metering	Properties	000's					0.03	0.09	0.16	0.22	0.28	0.35	0.41	0.47	0.53	0.60	1.23	2.43	3.63	4.83	6.03	6.62	6.62	6.62	6.62	6.62	6.62	6.62	6.62	6.62	6.62	6.62
6.23 _{pp}	6.21 _{pp} /6.22 _{pp}	Compulsory metering	Occupancy	h/prop	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	2.56	2.57	2.57	2.57	2.57	2.57	2.57	2.57	2.57	2.57	2.57	2.56	2.56	2.57	2.63	2.66	2.65	2.65	2.64	2.64	2.64	2.64	2.63	2.63	2.63	
6.24 _{pp}	Input	Compulsory metering	pcc	l/h/d					147.94	147.49	147.16	146.86	146.57	146.37	146.18	138.89	138.96	139.10	138.93	138.62	138.60	138.60	139.82	141.23	140.83	141.35	141.90	142.46	143.02	143.59	144.17	144.77	145.37	
6.25 _{pp}	Input	Existing Metering	Population	000's	18.63	20.19	20.12	20.15	20.20	20.28	20.26	20.30	20.27	20.28	20.27	20.28	20.25	20.26	20.24	20.20	20.22	20.15	20.08	20.05	20.01	19.98	19.96	19.94	19.91	19.89	19.86	19.84		
6.26 _{pp}	Input	Existing Metering	Properties	000's	8.88	9.16	9.16	9.16	9.16	9.16	9.16	9.16	9.16	9.16	9.16	9.16	9.16	9.16	9.16	9.16	9.16	9.16	9.16	9.16	9.16	9.16	9.16	9.16	9.16	9.16	9.16	9.16	9.16	
6.27 _{pp}	6.25 _{pp} /6.26 _{pp}	Existing Metering	Occupancy	h/prop	2.10	2.20	2.20	2.20	2.21	2.21	2.21	2.21	2.22	2.21	2.21	2.21	2.21	2.21	2.21	2.21	2.21	2.21	2.21	2.21	2.20	2.19	2.18	2.18	2.17	2.17	2.17	2.17		
6.28 _{pp}	Input	Existing Metering	pcc	l/h/d	152.25	152.03	151.62	151.10	150.85	150.88	151.02	151.17	151.55	151.96	145.04	145.74	146.54	147.64	149.18	150.83	152.27	152.58	152.80	154.56	155.77	156.88	157.50	158.20	158.85	159.50	160.04	160.52		

Company:	Thames Water
Resource Zone Name:	Henley
Resource Zone Number:	4 of 6
Planning Scenario Name:	Dry Year Annual Average
Chosen Level of Service:	Company Preferred Level of Service

Table WRP7: Baseline household micro-component consumption

Row Ref	Derivation	Description <i>Insert additional components as required</i>	Units	Scenario Year 2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	2032-33	2033-34	2034-35	
7.1	Input	Unmeasured toilet flushing	l/h/d	42.59	38.57	37.81	37.12	36.46	35.85	35.28	34.75	34.26	33.80	33.36	32.96	32.59	32.24	31.91	31.61	31.33	31.07	30.82	30.60	30.39	30.19	30.01	29.84	29.69	29.54	29.41	29.28	29.17	
7.2	Input	Unmeasured bath use	l/h/d	22.88	18.85	18.19	17.54	16.89	16.24	15.58	14.92	14.26	13.60	12.94	12.78	12.63	12.47	12.32	12.16	12.01	11.85	11.69	11.54	11.38	11.36	11.34	11.32	11.29	11.27	11.25	11.23	11.20	
7.3	Input	Unmeasured shower use	l/h/d	28.52	25.89	26.82	27.89	28.95	30.03	31.11	32.19	33.29	34.39	35.49	36.24	36.98	37.74	38.50	39.26	40.03	40.80	41.58	42.36	43.15	43.83	44.52	45.21	45.91	46.61	47.31	48.02	48.73	
7.4	Input	Unmeasured hand basin	l/h/d	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
7.5	Input	Unmeasured clothes washing	l/h/d	17.02	13.36	13.01	12.69	12.41	12.16	11.93	11.73	11.55	11.40	11.25	11.13	11.01	10.91	10.83	10.75	10.68	10.62	10.57	10.52	10.48	10.45	10.42	10.39	10.37	10.36	10.34	10.33	10.33	
7.6	Input	Unmeasured dish washing	l/h/d	11.92	8.59	8.58	8.52	8.46	8.40	8.36	8.33	8.29	8.26	8.22	8.19	8.15	8.12	8.09	8.07	8.05	8.03	8.01	8.00	7.99	7.98	7.97	7.96	7.95	7.94	7.93	7.92	7.92	
7.7	Input	Unmeasured garden use	l/h/d	23.64	19.44	19.60	19.83	20.03	20.21	20.41	20.61	20.77	20.94	21.05	21.17	21.28	21.37	21.45	21.55	21.67	21.76	21.85	21.94	22.03	22.12	22.22	22.30	22.36	22.42	22.47	22.53	22.58	
7.8	Input	Unmeasured car washing	l/h/d	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
7.9	Input	Unmeasured miscellaneous use	l/h/d	36.21	32.70	32.71	32.74	32.78	32.81	32.84	32.87	32.89	32.91	32.93	32.95	32.96	32.98	32.99	33.01	33.03	33.04	33.06	33.07	33.09	33.11	33.12	33.14	33.16	33.17	33.19	33.20	33.22	
7.10	Input	Unmeasured wastage	l/h/d	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	
7.11	Input	Unmeasured water efficiency	l/h/d	-0.39	-0.12	-0.25	-0.38	-0.51	-0.64	-0.77	-0.90	-1.02	-1.13	-1.23	-1.31	-1.36	-1.41	-1.44	-1.46	-1.48	-1.49	-1.50	-1.51	-1.53	-1.54	-1.56	-1.58	-1.59	-1.60	-1.62	-1.63	-1.65	
7.12	Input		l/h/d																														
7.13	Input		l/h/d																														
7.14	Input		l/h/d																														
7.15	Input		l/h/d																														
7.16	Input		l/h/d																														
7.17	Input		l/h/d																														
7.18	Input		l/h/d																														
7.19	Sum(7.1-7.18)	Unmeasured pcc	l/h/d	191.38	166.28	165.47	164.95	164.48	164.05	163.75	163.51	163.28	163.15	163.02	163.11	163.24	163.42	163.64	163.94	164.31	164.68	165.08	165.51	165.97	166.50	167.04	167.59	168.14	168.70	169.28	169.88	170.49	
7.20	Input	Measured toilet flushing	l/h/d	36.64	35.82	35.02	34.38	33.77	33.21	32.69	32.20	31.74	31.31	30.89	30.50	30.13	29.80	29.48	29.20	28.94	28.68	28.45	28.23	28.01	27.81	27.61	27.41	27.22	27.03	26.84	26.66	26.47	
7.21	Input	Measured bath use	l/h/d	21.70	18.02	17.39	16.72	16.04	15.37	14.70	14.02	13.34	12.65	11.96	11.77	11.59	11.41	11.23	11.06	10.90	10.72	10.55	10.37	10.19	10.14	10.07	10.00	9.93	9.85	9.76	9.66	9.56	
7.22	Input	Measured shower use	l/h/d	27.32	28.05	29.00	30.03	31.07	32.11	33.17	34.23	35.29	36.36	37.42	38.08	38.75	39.42	40.10	40.79	41.49	42.19	42.88	43.59	44.29	44.89	45.48	46.07	46.66	47.24	47.82	48.40	48.97	
7.23	Input	Measured hand basin	l/h/d	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
7.24	Input	Measured clothes washing	l/h/d	13.12	12.65	12.15	11.75	11.40	11.09	10.81	10.55	10.32	10.12	9.91	9.73	9.57	9.43	9.30	9.19	9.09	9.00	8.92	8.84	8.76	8.69	8.61	8.53	8.45	8.37	8.28	8.19	8.10	
7.25	Input	Measured dish washing	l/h/d	8.98	8.91	8.88	8.84	8.78	8.73	8.70	8.68	8.66	8.64	8.60	8.58	8.55	8.54	8.53	8.53	8.55	8.55	8.56	8.57	8.57	8.57	8.57	8.56	8.54	8.51	8.48	8.44	8.39	8.33
7.26	Input	Measured garden use	l/h/d	16.94	15.53	16.34	16.85	17.31	17.74	18.19	18.65	19.06	19.49	19.89	20.30	20.69	21.08	21.46	21.86	22.28	22.66	23.02	23.39	23.74	24.08	24.40	24.71	24.97	25.22	25.46	25.67	25.87	
7.27	Input	Measured car washing	l/h/d	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
7.28	Input	Measured miscellaneous use	l/h/d	31.13	30.95	31.03	31.05	31.06	31.08	31.09	31.10	31.11	31.11	31.10	31.10	31.10	31.09	31.09	31.08	31.09	31.10	31.10	31.10	31.10	31.10	31.09	31.06	31.03	31.00	30.96	30.91	30.85	30.78
7.29	Input	Measured wastage	l/h/d	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	
7.30	Input	Measured water efficiency	l/h/d	-0.89	-0.28	-0.59	-0.89	-1.19	-1.48	-1.77	-2.06	-2.35	-2.60	-2.80	-2.98	-3.11	-3.21	-3.28	-3.33	-3.35	-3.38	-3.40	-3.44	-3.47	-3.50	-3.54	-3.57	-3.60	-3.63	-3.66	-3.69	-3.71	
7.31	Input		l/h/d																														
7.32	Input		l/h/d																														
7.33	Input		l/h/d																														
7.34	Input		l/h/d																														
7.35	Input		l/h/d																														
7.36	Input		l/h/d																														
7.37	Input		l/h/d																														
7.38	Sum(7.20-7.37)	Measured pcc	l/h/d	157.53	152.25	151.83	151.32	150.86	150.45	150.18	149.98	149.76	149.68	149.57	149.69	149.87	150.16	150.51	150.99	151.59	152.12	152.68	153.26	153.78	154.34	154.85	155.33	155.74	156.12	156.46	156.74	156.96	

Company: Thames Water
Resource Zone Name: Henley
Resource Zone Number: 4 of 6
Planning Scenario Name: Dry Year Annual Average
Chosen Level of Service: Company Preferred Level of Service

Table WRP7a: Final planning household micro-component consumption

Row Ref	Derivation	Description <i>Insert additional components as required</i>	Units	Scenario Year 2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	2032-33	2033-34	2034-35	
7.1	Input	Unmeasured toilet flushing	l/h/d	42.59	38.19	37.44	36.74	36.09	35.49	34.94	34.42	33.94	33.49	33.08	32.69	32.33	32.00	31.66	31.33	31.09	30.90	30.94	30.73	30.15	29.96	29.77	29.61	29.45	29.30	29.17	29.05	28.93	
7.2	Input	Unmeasured bath use	l/h/d	22.88	18.55	17.89	17.25	16.60	15.94	15.29	14.63	13.97	13.31	12.65	12.50	12.35	12.20	12.01	11.82	11.68	11.57	11.67	11.56	11.07	11.05	11.03	11.01	10.99	10.97	10.95	10.92	10.90	
7.3	Input	Unmeasured shower use	l/h/d	28.52	25.86	26.59	27.65	28.72	29.80	30.88	31.97	33.06	34.16	35.26	36.01	36.77	37.52	38.25	38.97	39.74	40.55	41.55	42.40	42.90	43.58	44.27	44.96	45.66	46.36	47.06	47.77	48.48	
7.4	Input	Unmeasured hand basin	l/h/d	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
7.5	Input	Unmeasured clothes washing	l/h/d	17.02	12.87	12.51	12.20	11.91	11.66	11.44	11.24	11.06	10.90	10.76	10.64	10.52	10.42	10.32	10.23	10.21	10.20	10.00	10.53	10.47	9.99	9.95	9.92	9.90	9.88	9.86	9.85	9.84	9.83
7.6	Input	Unmeasured dish washing	l/h/d	11.92	8.10	8.08	8.03	7.96	7.88	7.82	7.76	7.69	7.63	7.57	7.52	7.48	7.45	7.37	7.27	7.22	7.23	7.46	7.46	7.03	7.04	7.06	7.08	7.09	7.11	7.13	7.14	7.16	
7.7	Input	Unmeasured garden use	l/h/d	23.64	21.36	21.53	21.76	21.92	22.03	22.15	22.26	22.32	22.40	22.43	22.48	22.53	22.59	22.39	21.99	21.57	20.87	20.28	21.24	22.40	22.56	22.72	22.88	23.01	23.15	23.28	23.40	23.53	
7.8	Input	Unmeasured car washing	l/h/d	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
7.9	Input	Unmeasured miscellaneous use	l/h/d	36.21	32.66	32.67	32.71	32.74	32.77	32.80	32.83	32.85	32.88	32.89	32.91	32.92	32.94	32.91	32.86	32.85	32.85	33.03	33.19	33.04	33.06	33.07	33.09	33.11	33.12	33.14	33.15	33.17	
7.10	Input	Measured wastage	l/h/d	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	
7.11	Input	Measured water efficiency	l/h/d	-0.39	-0.12	-0.25	-0.38	-0.57	-0.70	-0.80	-0.92	-1.04	-1.14	-1.23	-1.31	-1.37	-1.42	-1.42	-1.35	-1.25	-1.12	-0.97	-0.85	-0.87	-0.88	-0.89	-0.91	-0.92	-0.93	-0.94	-0.96	-0.97	
7.12	Input		l/h/d																														
7.13	Input		l/h/d																														
7.14	Input		l/h/d																														
7.15	Input		l/h/d																														
7.16	Input		l/h/d																														
7.17	Input		l/h/d																														
7.18	Input		l/h/d																														
7.19	Sum(7.1-7.18)	Unmeasured pcc	l/h/d	191.38	166.28	165.47	164.95	164.38	163.88	163.51	163.18	162.86	162.64	162.42	162.44	162.53	162.69	162.49	162.12	162.11	162.11	163.53	165.19	164.71	165.32	165.96	166.62	167.27	167.94	168.62	169.32	170.03	
7.20	Input	Measured toilet flushing	l/h/d	36.64	35.88	35.08	34.44	33.84	33.27	32.75	32.27	31.80	31.37	30.96	29.57	29.20	28.87	28.57	28.31	28.07	27.83	27.57	27.35	27.15	26.98	26.80	26.63	26.46	26.30	26.15	26.00	25.86	
7.21	Input	Measured bath use	l/h/d	21.70	18.07	17.44	16.77	16.09	15.41	14.74	14.06	13.38	12.70	12.00	10.81	10.63	10.45	10.28	10.13	9.98	9.81	9.61	9.43	9.27	9.25	9.21	9.17	9.13	9.08	9.03	8.97	8.90	
7.22	Input	Measured shower use	l/h/d	27.32	28.09	29.03	30.07	31.10	32.15	33.20	34.26	35.32	36.39	37.46	37.11	37.77	38.45	39.13	39.84	40.55	41.25	41.93	42.62	43.34	43.97	44.59	45.21	45.83	46.44	47.06	47.67	48.28	
7.23	Input	Measured hand basin	l/h/d	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
7.24	Input	Measured clothes washing	l/h/d	13.12	12.72	12.23	11.83	11.47	11.13	10.84	10.58	10.34	10.13	9.93	8.76	8.59	8.46	8.34	8.24	8.17	8.09	7.99	7.91	7.86	7.82	7.78	7.73	7.69	7.64	7.59	7.55	7.49	
7.25	Input	Measured dish washing	l/h/d	8.98	8.99	8.96	8.91	8.84	8.75	8.68	8.63	8.56	8.51	8.42	7.35	7.27	7.19	7.12	7.07	7.02	6.95	6.84	6.78	6.79	6.80	6.81	6.81	6.80	6.79	6.78	6.76	6.73	
7.26	Input	Measured garden use	l/h/d	16.94	15.23	16.03	16.54	17.02	17.47	17.95	18.41	18.81	19.21	19.56	18.72	19.01	19.27	19.46	19.60	19.74	19.81	19.80	19.91	20.16	20.43	20.67	20.91	21.11	21.30	21.49	21.66	21.83	
7.27	Input	Measured car washing	l/h/d	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
7.28	Input	Measured miscellaneous use	l/h/d	31.13	30.95	31.04	31.05	31.07	31.08	31.09	31.11	31.11	31.11	31.11	31.11	30.07	30.06	30.07	30.07	30.09	30.11	30.11	30.08	30.08	30.09	30.11	30.11	30.10	30.09	30.07	30.05	30.02	
7.29	Input	Measured wastage	l/h/d	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	
7.30	Input	Measured water efficiency	l/h/d	-0.89	-0.28	-0.59	-0.89	-1.31	-1.53	-1.72	-1.94	-2.14	-2.30	-2.42	-2.50	-2.55	-2.58	-2.61	-2.64	-2.66	-2.67	-2.68	-2.62	-2.66	-2.70	-2.74	-2.78	-2.82	-2.86	-2.90	-2.94	-2.98	
7.31	Input		l/h/d																														
7.32	Input		l/h/d																														
7.33	Input		l/h/d																														
7.34	Input		l/h/d																														
7.35	Input		l/h/d																														
7.36	Input		l/h/d																														
7.37	Input		l/h/d																														
7.38	Sum(7.20-7.37)	Measured pcc	l/h/d	157.53	152.25	151.83	151.32	150.71	150.33	150.14	149.97	149.78	149.72	149.61	142.48	142.59	142.77	142.96	143.22	143.58	143.78	144.06	144.59	145.26	145.83	146.39	146.89	147.38	147.88	148.32	148.75		

Company: Thames Water
Resource Zone Name: Henley
Resource Zone Number: 4 of 6
Planning Scenario Name: Dry Year Annual Average
Chosen Level of Service: Company Preferred Level of Service

Table WRP8: Baseline non-household sector consumption

Row Ref	Derivation	Description	2007 SIC codes	Units	Scenario Year 2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	2032-33	2033-34
8.1	Input	Agriculture, horticulture, forestry and fishing	A1, A2, A3	M/d	0.19	0.21	0.21	0.20	0.20	0.19	0.19	0.18	0.18	0.17	0.17	0.17	0.16	0.16	0.16	0.16	0.15	0.15	0.15	0.14	0.14	0.14	0.13	0.13	0.13	0.12	0.12	0.12
8.2	Input	Extraction of metals, minerals and energy producing materials	B5, B6, B7, B8, B9	M/d	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
8.3	Input	Food and drink (manufacture)	C10, C11, C12	M/d	0.30	0.09	0.07	0.06	0.05	0.04	0.03	0.03	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	
8.4	Input	Textile, fur and leather (manufacture)	C13, C14, C15	M/d	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
8.5	Input	Other manufacturing	C16, C26, C27, C31, C32, C33	M/d	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
8.6	Input	Paper (manufacture)	C17, C18	M/d	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	
8.7	Input	Fuel refining	C19	M/d	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
8.8	Input	Chemicals, rubbers, plastics and man-made material (manufacture)	C20, C21, C22	M/d	0.03	0.06	0.06	0.06	0.06	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.03	0.03	0.03	0.03	0.03	
8.9	Input	Manufacture of non-metallic minerals	C23	M/d	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	
8.10	Input	Manufacture of basic metals, fabricated metal products and	C24, C25, C28, C29	M/d	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.02
8.11	Input	Transportation and manufacture of transport equipment	C30, H49, H50, H51, H52, H53	M/d	0.06	0.08	0.07	0.06	0.06	0.06	0.06	0.05	0.05	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
8.12	Input	Electricity, gas and water supplies	D35, E36, E37, E38, E39	M/d	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8.13	Input	Construction	F41, F42, F43	M/d	0.02	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
8.14	Input	Wholesale and retail	G45, G46, G47	M/d	0.17	0.21	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.22	0.22	0.22	0.22	0.22	0.22	0.22
8.15	Input	Hotels, bars and restaurants	I55, I56	M/d	0.42	0.43	0.41	0.39	0.39	0.39	0.40	0.40	0.41	0.42	0.43	0.44	0.45	0.47	0.48	0.49	0.50	0.52	0.53	0.54	0.55	0.57	0.58	0.59	0.60	0.62	0.63	0.64
8.16	Input	Other services	J, K, L, M, N, O, R, S, T, U	M/d	0.85	0.97	0.94	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.90	0.90	0.90	0.90	0.89	0.89	0.89	0.88	0.88	0.88
8.17	Input	Education and Health	P, Q	M/d	0.44	0.49	0.47	0.46	0.47	0.47	0.47	0.48	0.48	0.48	0.48	0.48	0.49	0.49	0.49	0.49	0.50	0.50	0.50	0.50	0.51	0.51	0.51	0.51	0.50	0.50	0.50	0.50
8.18	Input			M/d																												
8.19	Input			M/d																												
8.20	Input			M/d																												

Company: Thames Water

Resource Zone Name: Henley

Resource Zone Number: 4 of 6

Planning Scenario Name: Dry Year Annual Average

Chosen Level of Service: Company Preferred Level of Service

