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	Guildford				
Resource Zone Number:	6 of 6				
Planning Scenario Name:	Dry Year Critical Period				
Chosen Level of Service:	Company Preferred Level of Service				
Responsible Officer:	David Spiller	**Signed:**		**Dated:**	05/12/2011
Version:	**Draft Final WRMP**				

* delete as appropriate

Workbook contents

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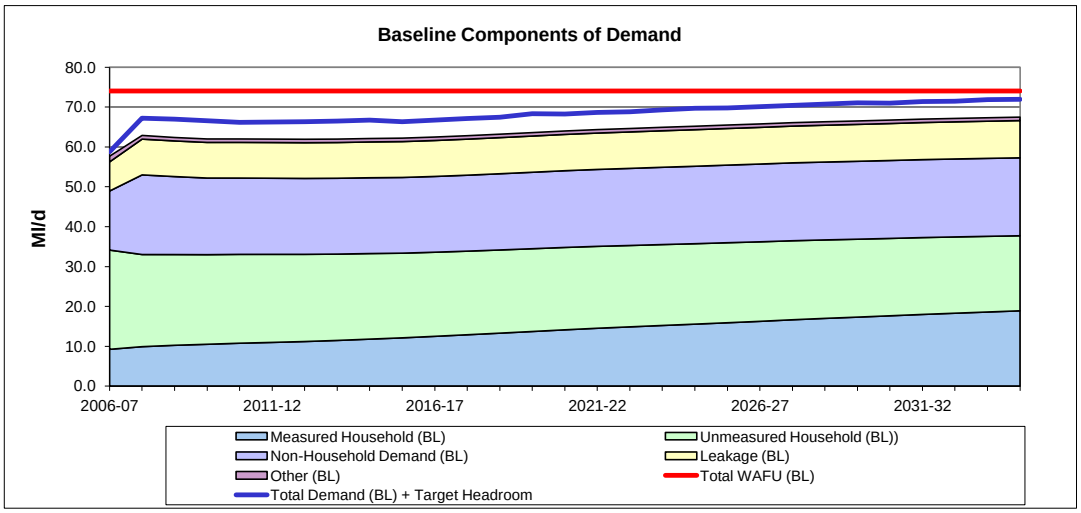
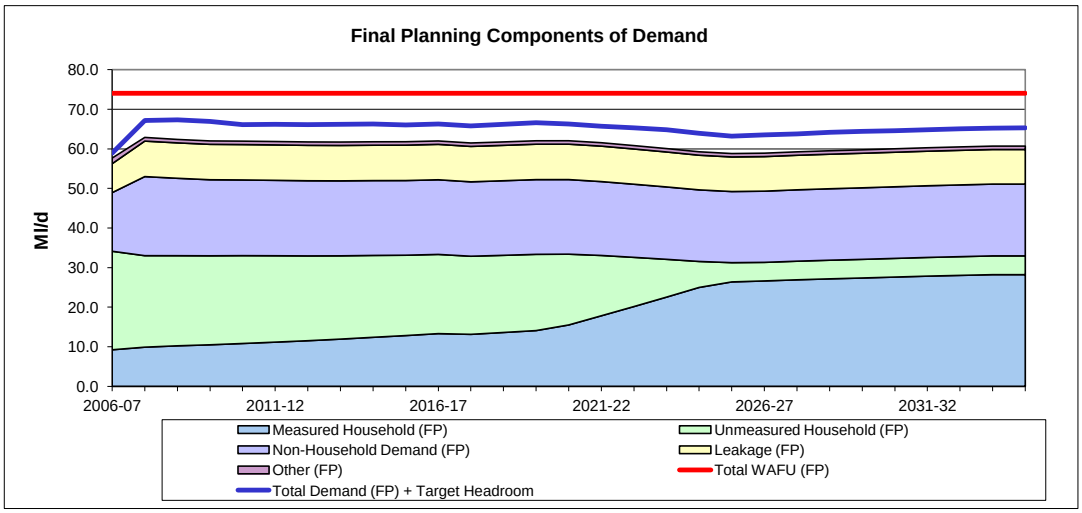
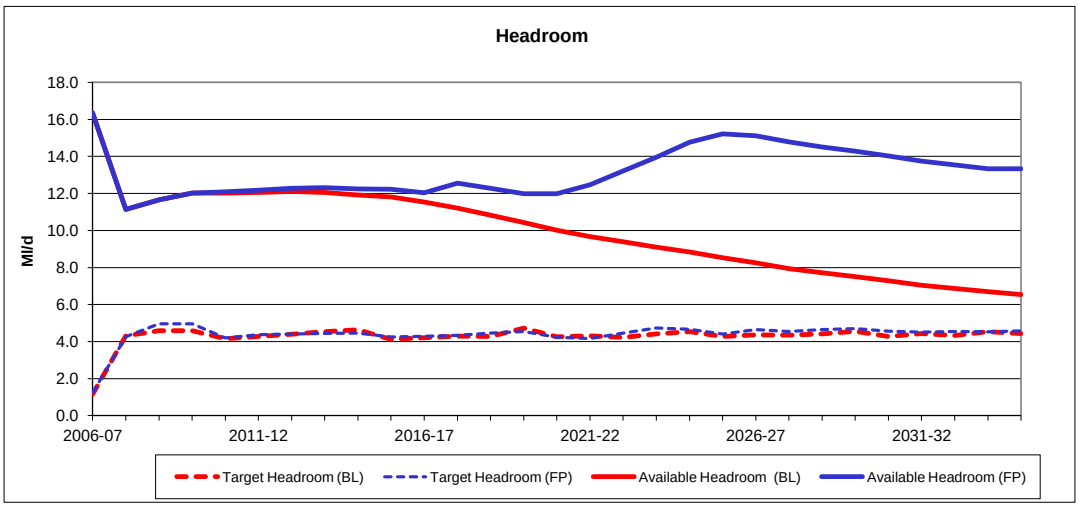
Summary graphs of WRP tables input data







Company:	**Thames Water**
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Table WRP1-BL: Baseline 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 BASELINE																															
1_{BL}	Input	Deployable Output (Specify individual Source Yields on Table WRP5	Ml/d	76.70	76.70	76.70	76.70	76.70	76.70	76.70	76.70	76.70	76.70	76.70	76.70	76.70	76.70	76.70	76.70	76.70	76.70	76.70	76.70	76.70	76.70	76.70	76.70	76.70	76.70	76.70	76.70	76.70
2_{BL}	WRP1a-BL $2a_{BL}$	Reductions in Deployable Output	Ml/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
3_{BL}	Input	Outage Allowance	Ml/d	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38
4_{BL}	$9_{BL}+11_{BL}$	Process Losses	Ml/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
5_{BL}	$1_{BL}-(2_{BL}+3_{BL}+4_{BL})$	Water Available For Use (own sources)	Ml/d	76.32	76.32	76.32	76.32	76.32	76.32	76.32	76.32	76.32	76.32	76.32	76.32	76.32	76.32	76.32	76.32	76.32	76.32	76.32	76.32	76.32	76.32	76.32	76.32	76.32	76.32	76.32	76.32	76.32
RAW WATER BASELINE																															
6_{BL}	Input	Raw Water Abstracted	Ml/d	64.49	68.10	67.56	67.18	67.18	67.14	67.10	67.14	67.30	67.39	67.68	68.03	68.43	68.84	69.27	69.63	69.92	70.23	70.51	70.82	71.11	71.45	71.68	71.89	72.12	72.38	72.56	72.74	72.90
7_{BL}	WRP1a-BL $7a_{BL}$	Raw Water Exported (existing)	Ml/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
8_{BL}	WRP1a-BL $8a_{BL}$	Raw Water Imported (existing)	Ml/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
9_{BL}	Input	Raw Water Losses and Operational Use	Ml/d	0.45	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
10_{BL}	WRP1a-BL $10a_{BL}$	Non Potable Supplies (existing)	Ml/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
POTABLE WATER TO POINT OF DELIVERY BASELINE																															
11_{BL}	Input	Treatment Works Losses and Operational Use	Ml/d	4.07	2.62	2.60	2.59	2.59	2.59	2.58	2.59	2.59	2.59	2.61	2.62	2.63	2.65	2.67	2.68	2.69	2.70	2.71	2.73	2.74	2.75	2.76	2.77	2.78	2.79	2.79	2.80	2.81
12_{BL}	WRP1a-BL $12a_{BL}$	Potable Water Exported	Ml/d	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30
13_{BL}	WRP1a-BL $13a_{BL}$	Potable Water Imported	Ml/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
14_{BL}	Input	Distribution Input	Ml/d	57.67	62.89	62.37	62.00	62.00	61.97	61.93	61.97	62.12	62.21	62.48	62.82	63.20	63.60	64.01	64.35	64.62	64.92	65.19	65.49	65.77	66.09	66.32	66.52	66.74	66.98	67.16	67.32	67.48
15_{BL}	Input	Distribution Losses	Ml/d	5.24	6.43	6.40	6.40	6.41	6.41	6.40	6.40	6.40	6.40	6.41	6.42	6.43	6.44	6.47	6.52	6.57	6.62	6.66	6.68	6.68	6.69	6.70	6.70	6.70	6.71	6.72	6.72	6.72
16_{BL}	Input	Distribution System Operational Use	Ml/d	0.67	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
17_{BL}	$14_{BL}-15_{BL}-16_{BL}$	Water Delivered	Ml/d	51.76	56.27	55.77	55.41	55.39	55.37	55.33	55.38	55.53	55.61	55.88	56.20	56.58	56.96	57.34	57.63	57.86	58.11	58.34	58.62	58.89	59.21	59.43	59.63	59.84	60.08	60.25	60.41	60.56
POTABLE WATER CUSTOMER USE BASELINE																															
18_{BL}	Input	Unmeasured Household - Population	000's	90.084	86.609	85.729	84.900	84.415	83.873	83.182	82.476	81.858	81.050	80.578	80.071	79.621	79.156	78.670	78.102	77.443	76.856	76.232	75.676	75.006	74.352	73.590	72.881	72.162	71.474	70.695	69.904	69.108
19_{BL}	Input	Unmeasured Household - Properties	000's	36.325	35.360	34.901	34.478	34.092	33.742	33.392	33.042	32.692	32.342	31.992	31.642	31.292	30.942	30.592	30.242	29.892	29.542	29.192	28.842	28.492	28.142	27.792	27.442	27.092	26.742	26.392	26.042	25.692
20_{BL}	$18_{BL}/19_{BL}$	Unmeasured Household - Occupancy Rate	h/pr	2.48	2.45	2.46	2.46	2.48	2.49	2.49	2.50	2.50	2.51	2.52	2.53	2.54	2.56	2.57	2.58	2.59	2.60	2.61	2.62	2.63	2.64	2.65	2.66	2.66	2.67	2.68	2.68	2.69
21_{BL}	WRP6-6.1_{BL}	Measured Household - Population	000's	40.857	44.979	46.543	47.827	49.185	50.214	51.279	52.637	54.282	55.881	57.810	59.718	61.647	63.607	65.595	67.351	68.835	70.321	71.748	73.229	74.761	76.489	77.981	79.353	80.906	82.583	84.085	85.670	87.262
22_{BL}	WRP6-6.2_{BL}	Measured Household - Properties	000's	19.426	20.350	21.119	21.840	22.511	23.059	23.660	24.393	25.225	26.094	27.007	27.920	28.822	29.740	30.675	31.540	32.325	33.085	33.835	34.582	35.399	36.295	37.143	37.920	38.783	39.673	40.464	41.242	42.028
23_{BL}	$21_{BL}/22_{BL}$	Measured Household - Occupancy Rate	h/pr	2.10	2.21	2.20	2.19	2.18	2.18	2.17	2.16	2.15	2.14	2.14	2.14	2.14	2.14	2.14	2.14	2.13	2.13	2.12	2.12	2.11	2.11	2.10	2.09	2.09	2.08	2.08	2.08	2.08
24_{BL}	Input	Unmeasured Non Household - Population	000's	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	0.000
25_{BL}	Input	Unmeasured Non Household - Properties	000's	0.254	0.316	0.316	0.316	0.316	0.316	0.316	0.316	0.316	0.316	0.316	0.316	0.316	0.316	0.316	0.316	0.316	0.316	0.316	0.316	0.316	0.316	0.316	0.316	0.316	0.316	0.316	0.316	0.316
26_{BL}	Input	Measured Non Household - Population	000's	10.591	10.959	10.959	10.959	10.959	10.959	10.959	10.959	10.959	10.959	10.959	10.959	10.959	10.959	10.959	10.959	10.959	10.959	10.959	10.959	10.959	10.959	10.959	10.959	10.959	10.959	10.959	10.959	10.959
27_{BL}	Input	Measured Non Household - Properties	000's	3.909	4.169	4.215	4.261	4.307	4.352	4.398	4.444	4.490	4.536	4.582	4.627	4.673	4.719	4.765	4.811	4.857	4.903	4.948	4.994	5.040	5.086	5.132	5.178	5.223	5.269	5.315	5.361	5.407
28_{BL}	$18_{BL}+21_{BL}+24_{BL}+26_{BL}$	Total Population	000's	141.532	142.547	143.232	143.687	144.559	145.046	145.419	146.072	147.100	147.891	149.347	150.748	152.227	153.722	155.224	156.412	157.237	158.136	158.939	159.864	160.727	161.800	162.530	163.193	164.028	165.017	165.740	166.534	167.329
29_{BL}	Input	Void Households	000's	0.794	0.850	0.850	0.850	0.850	0.850	0.850	0.850	0.850	0.850	0.850	0.850	0.850	0.850	0.850	0.850	0.850	0.850	0.850	0.850	0.850	0.850	0.850	0.850	0.850	0.850	0.850	0.850	0.850
30_{BL}	Input	Void Non Households	000's	0.526	0.431	0.431	0.431	0.431	0.431	0.431	0.431	0.431	0.431	0.431	0.431	0.431	0.431	0.431	0.431	0.431	0.431	0.431	0.431	0.431	0.431	0.431	0.431	0.431	0.431	0.431	0.431	0.431
30.1$_{BL}$	$22_{BL}/(22_{BL}+19_{BL})$	Total Household Metering penetration (excl. voids)	%	35%	37%	38%	39%	40%	41%	41%	42%	44%	45%	46%	47%	48%	49%	50%	51%	52%	53%	54%	55%	55%	56%	57%	58%	59%	60%	61%	61%	62%
30.2$_{BL}$	$22_{BL}/(22_{BL}+19_{BL}+29_{BL})$	Total Household Metering penetration (incl. voids)	%	34%	36%	37%	38%	39%	40%	41%	42%	43%	44%	45%	46%	47%	48%	49%	50%	51%	52%	53%	54%	55%	56%	56%	57%	58%	59%	60%	61%	61%
31_{BL}	$19_{BL}+22_{BL}+25_{BL}+27_{BL}+29_{BL}+30_{BL}$	Total Properties	000's	61.233	61.476	61.833	62.176	62.507	62.750	63.048	63.475	64.003	64.568	65.177	65.786	66.384	66.998	67.629	68.190	68.670	69.126	69.572	70.015	70.527	71.120	71.663	72.136	72.696	73.281	73.768	74.242	74.724
POTABLE WATER DELIVERED BASELINE																															
32_{BL}	Input	Water Taken Unbilled	Ml/d	0.81	0.81	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.75
33_{BL}	Input	Water Delivered Unmeasured Household	Ml/d	26.50	25.06	24.70	24.40	24.19	23.99	23.76	23.54	23.35	23.11	22.96	22.83	22.72	22.60	22.48	22.32	22.16	22.01	21.85	21.73	21.59	21.46	21.31	21.17	21.02	20.88	20.73	20.57	20.40
34_{BL}	Input	Unmeasured Household - USPL	Ml/d	1.61	1.94	1.93	1.92	1.90	1.89	1.89	1.88	1.88	1.87	1.86	1.85	1.84	1.84	1.81	1.78	1.74	1.70	1.67	1.65	1.64	1.63	1.62	1.62	1.61	1.60	1.59	1.58	1.57
35_{BL}	$33_{BL}-34_{BL}$	Unmeasured Household - Consumption	Ml/d	24.89	23.12	22.77	22.48	22.29	22.09	21.87	21.66	21.47	21.24	21.10	20.98	20.87	20.77	20.67	20.55	20.42	20.30	20.18	20.08	19.95	19.83	19.68	19.55	19.41	19.28	19.14	18.99	18.83
36_{BL}	$(35_{BL}*1000000)/(18_{BL}*1000)$	Unmeasured Household - PCC	l/h/d	276.32	266.92	265.55	264.78	264.02	263.41	262.97	262.61	262.27	262.07	261.85	261.97	262.15	262.39	262.70	263.11	263.64	264.17	264.74	265.35	265.99	266.69	267.45	268.24	269.00	269.79	270.71	271.62	272.48
37_{BL}	Input	Water Delivered Measured Household	Ml/d	9.51	10.27	10.62	10.89	11.17	11.38	11.61	11.90	12.25	12.59	12.99	13.40	13.82	14.25	14.69	15.09	15.45	15.80	16.14	16.50	16.88	17.29	17.66	17.99	18.34	18.71	19.03	19.35	19.67
38_{BL}	Input	Measured Household - USPL	Ml/d	0.28	0.37	0.38	0.39	0.40	0.41	0.43	0.44	0.46	0.48	0.50	0.51	0.53	0.55	0.56	0.57	0.58	0.59	0.60	0.61	0.62	0.64	0.66	0.68	0.70	0.72	0.74	0.76	0.78
39_{BL}	$37_{BL}-38_{BL}$	Measured Household - Consumption	Ml/d	9.23	9.89	10.24	10.50	10.77	10.97	11.18	11.46	11.79	12.11	12.49	12.88	13.28	13.70	14.12	14.51	14.86	15.21	15.55	15.89	16.25	16.64	16.99	17.31	17.64	17.99	18.29	18.59	18.89
40_{BL}	$(39_{BL}*1000000)/(21_{BL}*1000)$	Measured Household - PCC	l/h/d	226.01	219.99	220.02	219.49	218.89	218.43	218.10	217.72	217.18	216.72	216.07	215.73	215.50	215.36	215.32	215.51	215.95	216.30	216.68	217.03	217.39	217.60	217.91	218.12	218.06	217.78	217.50	217.05	216.51
40.1$_{BL}$	$_{BL}+39_{BL})*1000000)/((18_{BL}+21_{BL})*1$	Average Household - PCC	l/h/d	260.62	250.88	249.53	248.46	247.41	246.57	245.86	245.12	244.29	243.56	242.73	242.22	241.79	241.44	241.16	241.07	241.20	241.30	241.44	241.59	241.73	241.80	241.96	242.11	242.07	241.91	241.80	241.57	241.25
41_{BL}	Input	Water Delivered Unmeasured Non Household	Ml/d	0.40	0.61	0.63	0.64	0.64	0.64	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.66	0.66	0.66	0.66	0.66
42_{BL}	Input	Unmeasured Non Household - USPL	Ml/d	0.01	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	0.02	0.02
43_{BL}	$41_{BL}-42_{BL}$	Unmeasured Non Household - Consumption	Ml/d	0.39	0.59	0.61	0.62	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.64	0.64	0.64	0.64	0.64	0.64	0.64
44_{BL}	Input	Water Delivered Measured Non Household	Ml/d	14.53	19.53	19.10	18.74	18.66	18.61	18.57	18.55	18.54	18.52	18.54	18.58	18.65	18.72	18.78	18.83	18.87	18.92	18.96	19.00	19.04	19.07	19.07	19.07	19.08	19.09	19.09	19.09	19.09
45_{BL}	Input	Measured Non Household - USPL	Ml/d	0.11	0.14	0.14	0.15	0.15	0.15	0.15	0.15	0.15	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.17	0.17	0.17	0.17	0.17	0.17	0.18
46_{BL}	$44_{BL}-45_{BL}$	Measured Non Household - Consumption	Ml/d	14.43	19.39	18.95	18.60	18.51	18.47	18.42	18.40	18.39	18.36	18.38	18.43	18.49	18.55	18.62	18.67	18.71	18.76	18.80	18.84	18.87	18.91	18.91	18.91	18.91	18.92	18.92	18.91	18.91
47_{BL}	Input	Void Properties - USPL	Ml/d	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.08	0.08	0.08	0.08	0.08	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.08	0.08	0.08	0.08	0.08	0.08
LEAKAGE BASELINE																															
48_{BL}	$15_{BL}+34_{BL}+38_{BL}+42_{BL}+45_{BL}+47_{BL}$	Total Leakage	Ml/d	7.31	8.97	8.95	8.94	8.95	8.96	8.96	8.97	8.98	9.00	9.02	9.04	9.06	9.08	9.10	9.13	9.14	9.16	9.17	9.19	9.20	9.22	9.24	9.26	9.27	9.29	9.31	9.33	9.35
49_{BL}	$(48_{BL}*1000000)/(31_{BL}*1000)$	Total Leakage	l/pr/d	119.38	145.94	144.68	143.86	143.21	142.74	142.11	141.28	140.34	139.38	138.38	137.42	136.50	135.56	134.62	133.84	133.15	132.49	131.85	131.21	130.46	129.63	128.95	128.35	127.56	126.84	126.27	125.66	125.06
SUPPLY DEMAND BALANCE BASELINE																															
50_{BL}	$5_{BL}+(8_{BL}+13_{BL})-(7_{BL}+12_{BL})-10_{BL}$	Total Water Available For Use	Ml/d	74.02	74.02	74.02	74.02	74.02	74.02	74.02	74.02	74.02	74.02	74.02	74.02	74.02	74.02	74.02	74.02	74.02	74.02	74.02	74.02	74.02	74.02	74.02	74.02	74.02	74.02	74.02	74.02	74.02
51_{BL}	Input	Available Headroom	Ml/d	16.35	11.14	11.65	12.02	12.02	12.05	12.10	12.05	11.91	11.82	11.54	11.21	10.82	10.43	10.02	9.68	9.40	9.10	8.83	8.53	8.25	7.93	7.71	7.51	7.29	7.04	6.87	6.70	6.55
52_{BL}	Input	Target Headroom	Ml/d	1.14	4.31	4.58	4.59	4.16	4.28	4.39	4.54	4.64	4.12	4.21	4.29	4.28	4.73	4.26	4.31	4.22	4.42	4.53	4.28	4.36	4.34	4.41	4.56	4.28	4.43	4.34	4.54	4.44
53_{BL}	$51_{BL}-52_{BL}$	Supply Demand Balance	Ml/d	15.21	6.83	7.07	7.43	7.86	7.77	7.71	7.51	7.27	7.70	7.33	6.91	6.54	5.70	5.76	5.37	5.18	4.69	4.30	4.26	3.90	3.59	3.30	2.94	3.01	2.61	2.53	2.16	2.11

Company: Thames Water

Resource Zone Name Guildford

Resource Zone Number: 6 of 6

Planning Scenario Name: Dry Year Critical Period

Chosen Level of Service: Company Preferred Level of Service

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

ROW Ref.	DERIVATION	DESCRIPTION *[Insert /delete non-numbered lines to suit]*	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
$2a_{BL}$	Input as appropriate	Reductions in Baseline Deployable Output: Total here and specify below	Ml/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
		Climate change	Ml/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
		Sustainability Reduction	Ml/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
		Network Constraints	Ml/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
			Ml/d																													
			Ml/d																													
$7a_{BL}$	Input as appropriate	Baseline Raw Water Exported (existing). Total here and specify below	Ml/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	Ml/d																													
		to	Ml/d																													
		to	Ml/d																													
$8a_{BL}$	Input as appropriate	Baseline Raw Water Imported (existing). Total here and specify below	Ml/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	Ml/d																													
		from	Ml/d																													
		from	Ml/d																													
$10a_{BL}$	Input as appropriate	Baseline Non Potable Supplies (existing). Total here and specify below	Ml/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	Ml/d																													
		to	Ml/d																													
		to	Ml/d																													
$12a_{BL}$	Input as appropriate	Baseline Potable Water Exported. Total here and specify below	Ml/d	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30
		to Three Valleys Water Co (Ext)	Ml/d	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30
		to	Ml/d																													
		to	Ml/d																													
		to	Ml/d																													
		to	Ml/d																													
$13a_{BL}$	Input as appropriate	Baseline Potable Water Imported. Total here and specify below	Ml/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 South East Water (Ext)	Ml/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	from																													
		from	from																													
		from	from																													
		from	from																													

Company:	**Thames Water**
Resource Zone Name	**Guildford**
Resource Zone Number:	**6 of 6**
Planning Scenario Name:	**Dry Year Critical Period**
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 *[Insert / delete non-numbered lines to suit]*	OPTION REFERENCE No.	WAFU ON FULL IMPLEMENTATION (Ml/d)	EARLIEST POTENTIAL OPTION START DATE (YEAR)	NPV of WAFU (Ml)	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)		6.47	2010/11	30510.04	7252.74	1602.49	-1178.67	231.43	9086.67	25.16	25.92
		Targetted compulsory metering (New Powers)		6.47	2010/11	30510.04	4910.48	1335.41	-1178.67	231.43	6477.33	16.61	17.37
		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)		0.17	2010/11	1014.69	3252.30	377.70	-21.06	231.43	3861.43	355.67	378.48
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....											
		Mousehill and Rodborough	PR09 GUI 01	0.18	2011	1416.84	234.08	0.00	0.00	223.77	457.85	16.52	32.32
		ASR - Guildford (Abbotswood)	PR09 GUI 02	4.5	2015	35421.08	11049.45	3968.02	0.00	447.06	15464.53	42.40	43.66

Company: Thames Water

Resource Zone Name Guildford

Resource Zone Number: 6 of 6

Planning Scenario Name: Dry Year Critical Period

Chosen Level of Service: Company Preferred Level of Service

Table WRP3: Preferred list of water management options

				PLANNED GAINS IN WAFU OR SAVINGS IN DEMAND (Ml/d) - TO BE COMPLETED FOR ALL PREFERRED OPTIONS (WAFU gains for each year are individual year gains and not cumulative gains)																												
ROW Ref.	DERIVATION	OPTION DESCRIPTION *[Insert / delete non-numbered lines to suit]*	OPTION REFERENCE No.	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
58	Input as appropriate	Customer Side Management, Specify Below....																													
		Targetted compulsory metering and sophisticated tariffs		0.00	0.00	0.00	0.00	0.05	0.06	0.06	0.07	0.06	0.06	0.06	0.83	0.09	0.09	0.33	0.78	0.88	0.93	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Enhanced water efficiency		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.07	0.07	0.07	0.02	0.02	0.02	0.02	0.02	0.00	0.09	0.09	0.09	0.09	0.02
		Optant metering (Included in Baseline)		0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Change of Occupier (Compulsory Current Powers)		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
59	Input as appropriate	Distribution Side Management, Specify Below....																													
		ALC		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.02	0.03	0.04	0.05	0.06	0.03	0.00	0.02	0.00	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.09	0.10	0.11
		CSL savings from compulsory metering programme		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.08	0.08	0.08	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60	Input as appropriate	Production Side Management, Specify Below....																													
61	Input as appropriate	Resource Management, Specify Below....																													
SUMMARY of WAFU GAINS																																
62	Sum of 58	Total customer side management gains		0.00	0.00	0.00	0.00	0.06	0.06	0.07	0.07	0.07	0.06	0.07	0.84	0.09	0.09	0.41	0.86	0.96	1.00	1.01	0.02	0.02	0.02	0.02	0.00	0.09	0.09	0.09	0.09	0.02
63	Sum of 59	Total distribution side management gains		0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.01	0.02	0.02	0.04	0.04	0.05	0.06	0.07	0.08	0.10	0.08	0.10	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.09	0.10	0.11
64	Sum of 60	Total production side management gains		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
65	Sum of 61	Total resource management gains		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Company: Thames Water

Resource Zone Name Guildford

Resource Zone Number: 6 of 6

Planning Scenario Name: Dry Year Critical Period

Chosen Level of Service: Company Preferred Level of Service

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	Ml/d	76.70	76.70	76.70	76.70	76.70	76.70	76.70	76.70	76.70	76.70	76.70	76.70	76.70	76.70	76.70	76.70	76.70	76.70	76.70	76.70	76.70	76.70	76.70	76.70	76.70	76.70	76.70	76.70	76.70
2_{FP}	WRP4a-FP $2a_{FP}$	Reductions in Deployable Output	Ml/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
3_{FP}	Input	Outage Allowance	Ml/d	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38
4_{FP}	$9_{FP}+11_{FP}$	Process Losses	Ml/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
5_{FP}	1_{FP}-(2_{FP}+3_{FP}+4_{FP})	Water Available For Use (own sources)	Ml/d	76.32	76.32	76.32	76.32	76.32	76.32	76.32	76.32	76.32	76.32	76.32	76.32	76.32	76.32	76.32	76.32	76.32	76.32	76.32	76.32	76.32	76.32	76.32	76.32	76.32	76.32	76.32	76.32	76.32
RAW WATER FINAL PLANNING																															
6_{FP}	Input	Raw Water Abstracted	Ml/d	64.49	68.10	67.56	67.17	67.11	67.02	66.91	66.88	66.95	66.96	67.16	66.63	66.91	67.21	67.22	66.70	65.94	65.15	64.30	63.84	63.94	64.29	64.57	64.82	65.09	65.37	65.59	65.81	62.91
7_{FP}	WRP4a-FP $7a_{FP}$	Raw Water Exported	Ml/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
8_{FP}	WRP4a-FP $8a_{FP}$	Raw Water Imported	Ml/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
9_{FP}	Input	Raw Water Losses and Operational Use	Ml/d	0.45	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.28	0.28	0.28	0.27	0.27	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.27
10_{FP}	WRP4a- FP $10a_{FP}$	Non Potable Supplies	Ml/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
POTABLE WATER TO POINT OF DELIVERY FINAL PLANNING																															
11_{FP}	Input	Treatment Works Losses and Operational Use	Ml/d	4.07	2.62	2.60	2.59	2.58	2.58	2.58	2.57	2.58	2.58	2.59	2.57	2.58	2.59	2.59	2.57	2.54	2.51	2.48	2.46	2.46	2.48	2.49	2.50	2.51	2.52	2.53	2.53	2.42
12_{FP}	WRP4a-FP $12a_{FP}$	Potable Water Exported	Ml/d	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30
13_{FP}	WRP4a-FP $13a_{FP}$	Potable Water Imported	Ml/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
14_{FP}	Input	Distribution Input	Ml/d	57.67	62.89	62.37	62.00	61.94	61.85	61.74	61.71	61.78	61.80	61.99	61.48	61.75	62.03	62.04	61.55	60.82	60.07	59.25	58.81	58.91	59.24	59.51	59.75	60.01	60.27	60.48	60.69	60.69
15_{FP}	Input	Distribution Losses	Ml/d	5.24	6.43	6.40	6.40	6.42	6.42	6.42	6.42	6.42	6.42	6.42	6.42	6.42	6.42	6.42	6.43	6.39	6.34	6.29	6.27	6.27	6.27	6.27	6.27	6.27	6.27	6.27	6.27	6.27
16_{FP}	Input	Distribution System Operational Use	Ml/d	0.67	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
17_{FP}	14_{FP}-15_{FP}-16_{FP}	Water Delivered	Ml/d	51.76	56.27	55.78	55.40	55.33	55.24	55.13	55.10	55.17	55.18	55.38	54.87	55.14	55.42	55.43	54.92	54.24	53.53	52.77	52.35	52.45	52.78	53.05	53.29	53.55	53.81	54.03	54.23	54.23
POTABLE WATER CUSTOMER USE FINAL PLANNING																															
18_{FP}	Input	Unmeasured Household - Population	000's	90.084	86.609	85.729	84.901	84.084	82.877	81.536	80.206	78.986	77.619	76.599	75.555	74.588	73.628	67.903	57.346	46.493	35.342	23.742	17.792	17.764	17.740	17.689	17.650	17.609	17.579	17.545	17.522	17.522
19_{FP}	Input	Unmeasured Household - Properties	000's	36.325	35.360	34.902	34.479	33.944	33.297	32.658	32.033	31.422	30.834	30.260	29.693	29.141	28.604	26.127	21.704	17.289	12.889	8.506	6.318	6.318	6.318	6.318	6.318	6.318	6.318	6.318	6.318	6.318
20_{FP}	18_{FP}/19_{FP}	Unmeasured Household - Occupancy Rate	h/pr	2.48	2.45	2.46	2.46	2.48	2.49	2.50	2.50	2.51	2.52	2.53	2.54	2.56	2.57	2.60	2.64	2.69	2.74	2.79	2.82	2.81	2.81	2.80	2.79	2.79	2.78	2.78	2.77	2.77
21_{FP}	WRP6a-6.1_{FP}	Measured Household - Population	000's	40.857	44.979	46.543	47.827	49.516	51.209	52.924	54.907	57.155	59.312	61.789	64.234	66.680	69.135	76.362	88.107	99.785	111.836	124.238	131.113	132.003	133.101	133.882	134.583	135.460	136.479	137.236	138.052	138.872
22_{FP}	WRP6a-6.2_{FP}	Measured Household - Properties	000's	19.426	20.350	21.119	21.840	22.659	23.504	24.395	25.402	26.494	27.602	28.739	29.869	30.973	32.079	35.140	40.078	44.928	49.738	54.522	57.106	57.573	58.119	58.617	59.044	59.558	60.097	60.538	60.966	61.403
23_{FP}	21_{FP}/22_{FP}	Measured Household - Occupancy Rate	h/pr	2.10	2.21	2.20	2.19	2.19	2.18	2.17	2.16	2.16	2.15	2.15	2.15	2.15	2.16	2.17	2.20	2.22	2.25	2.28	2.30	2.29	2.29	2.28	2.28	2.27	2.27	2.27	2.26	2.26
24_{FP}	Input	Unmeasured Non Household - Population	000's	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	0.000
25_{FP}	Input	Unmeasured Non Household - Properties	000's	0.254	0.316	0.316	0.316	0.316	0.316	0.316	0.316	0.316	0.316	0.316	0.316	0.316	0.316	0.316	0.316	0.316	0.316	0.316	0.316	0.316	0.316	0.316	0.316	0.316	0.316	0.316	0.316	0.316
26_{FP}	Input	Measured Non Household - Population	000's	10.591	10.959	10.959	10.959	10.959	10.959	10.959	10.959	10.959	10.959	10.959	10.959	10.959	10.959	10.959	10.959	10.959	10.959	10.959	10.959	10.959	10.959	10.959	10.959	10.959	10.959	10.959	10.959	10.959
27_{FP}	Input	Measured Non Household - Properties	000's	3.909	4.169	4.215	4.261	4.307	4.352	4.398	4.444	4.490	4.536	4.582	4.627	4.673	4.719	4.765	4.811	4.857	4.903	4.948	4.994	5.040	5.086	5.132	5.178	5.223	5.269	5.315	5.361	5.361
28_{FP}	18_{FP}+21_{FP}+24_{FP}+26_{FP}	Total Population	000's	141.532	142.547	143.232	143.687	144.559	145.046	145.419	146.072	147.100	147.891	149.347	150.748	152.227	153.722	155.224	156.412	157.237	158.136	158.939	159.864	160.727	161.800	162.530	163.193	164.028	165.017	165.740	166.534	167.353
29_{FP}	Input	Void Households	000's	0.794	0.850	0.850	0.850	0.850	0.850	0.850	0.850	0.850	0.850	0.850	0.850	0.850	0.850	0.850	0.850	0.850	0.850	0.850	0.850	0.850	0.850	0.850	0.850	0.850	0.850	0.850	0.850	0.850
30_{FP}	Input	Void Non Households	000's	0.526	0.431	0.431	0.431	0.431	0.431	0.431	0.431	0.431	0.431	0.431	0.431	0.431	0.431	0.431	0.431	0.431	0.431	0.431	0.431	0.431	0.431	0.431	0.431	0.431	0.431	0.431	0.431	0.431
30.1_{FP}	22_{FP}/(22_{FP}+19_{FP})	Total Household Metering penetration (excl. voids)	%	35%	37%	38%	39%	40%	41%	43%	44%	46%	47%	49%	50%	52%	53%	57%	65%	72%	79%	87%	90%	90%	90%	90%	90%	90%	90%	91%	91%	91%
30.2_{FP}	22_{FP}/(22_{FP}+19_{FP}+29_{FP})	Total Household Metering penetration (incl. voids)	%	34%	36%	37%	38%	39%	41%	42%	44%	45%	47%	48%	49%	51%	52%	57%	64%	71%	78%	85%	89%	89%	89%	89%	89%	89%	89%	89%	89%	90%
31_{FP}	19_{FP}+22_{FP}+25_{FP}+27_{FP}+29_{FP}+30_{FP}	Total Properties	000's	61.233	61.476	61.833	62.176	62.507	62.751	63.048	63.476	64.003	64.569	65.177	65.786	66.384	66.999	67.629	68.190	68.671	69.126	69.572	70.015	70.528	71.120	71.663	72.136	72.696	73.281	73.768	74.242	74.678
POTABLE WATER DELIVERED FINAL PLANNING																															
32_{FP}	Input	Water Taken Unbilled	Ml/d	0.81	0.81	0.74	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	0.76	0.77	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78
33_{FP}	Input	Water Delivered Unmeasured Household	Ml/d	26.50	25.06	24.70	24.40	24.08	23.69	23.28	22.86	22.48	22.08	21.76	21.47	21.20	20.94	19.48	16.68	13.67	10.56	7.29	5.44	5.26	5.27	5.27	5.27	5.28	5.28	5.29	5.29	5.29
34_{FP}	Input	Unmeasured Household - USPL	Ml/d	1.61	1.94	1.93	1.92	1.89	1.87	1.85	1.82	1.80	1.78	1.75	1.73	1.71	1.68	1.60	1.44	1.24	1.01	0.73	0.57	0.57	0.57	0.57	0.56	0.56	0.56	0.55	0.55	0.55
35_{FP}	33_{FP}-34_{FP}	Unmeasured Household - Consumption	Ml/d	24.89	23.12	22.77	22.48	22.20	21.83	21.43	21.04	20.68	20.30	20.01	19.74	19.49	19.26	17.88	15.24	12.43	9.55	6.56	4.87	4.69	4.70	4.70	4.71	4.72	4.72	4.73	4.74	4.74
36_{FP}	(35_{FP}*1000000)/(18_{FP}*1000)	Unmeasured Household - PCC	l/h/d	276.32	266.92	265.55	264.78	263.98	263.36	262.83	262.34	261.87	261.54	261.20	261.22	261.35	261.56	263.37	265.75	267.37	270.16	276.35	273.48	264.18	265.02	265.92	266.86	267.77	268.69	269.65	270.63	270.63
37_{FP}	Input	Water Delivered Measured Household	Ml/d	9.51	10.27	10.62	10.89	11.23	11.59	11.97	12.40	12.87	13.33	13.85	13.68	14.18	14.68	16.17	18.63	21.11	23.68	26.35	27.88	28.13	28.42	28.67	28.89	29.12	29.36	29.56	29.74	29.74
38_{FP}	Input	Measured Household - USPL	Ml/d	0.28	0.37	0.38	0.39	0.41	0.42	0.44	0.46	0.48	0.51	0.53	0.55	0.57	0.59	0.66	0.80	0.96	1.14	1.36	1.50	1.50	1.50	1.51	1.51	1.51	1.52	1.52	1.52	1.52
39_{FP}	37_{FP}-38_{FP}	Measured Household - Consumption	Ml/d	9.23	9.89	10.24	10.50	10.83	11.17	11.53	11.93	12.39	12.83	13.32	13.14	13.61	14.09	15.51	17.83	20.16	22.54	24.99	26.38	26.63	26.92	27.16	27.38	27.61	27.84	28.03	28.22	28.22
40_{FP}	(39_{FP}*1000000)/(21_{FP}*1000)	Measured Household - PCC	l/h/d	226.01	219.99	220.01	219.49	218.63	218.10	217.77	217.35	216.77	216.28	215.57	204.49	204.11	203.80	203.07	202.36	201.99	201.57	201.15	201.20	201.74	202.22	202.87	203.41	203.80	204.02	204.28	204.39	203.19
40.1_{FP}	(35_{FP}+39_{FP})*1000000)/((18_{FP}+21_{FP})*100	Average Household - PCC	l/h/d	260.62	250.88	249.53	248.46	247.17	246.07	245.09	244.06	242.93	241.93	240.83	235.15	234.33	233.59	231.45	227.35	222.77	218.04	213.21	209.84	209.15	209.60	210.23	210.77	211.16	211.40	211.69	211.85	210.74
41_{FP}	Input	Water Delivered Unmeasured Non Household	Ml/d	0.40	0.61	0.63	0.64	0.64	0.64	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.64	0.64	0.63	0.62	0.62	0.62	0.62	0.62	0.62	0.63	0.63	0.63	0.63	0.63
42_{FP}	Input	Unmeasured Non Household - USPL	Ml/d	0.01	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	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
43_{FP}	41_{FP}-42_{FP}	Unmeasured Non Household - Consumption	Ml/d	0.39	0.59	0.61	0.62	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.62	0.61	0.60	0.60	0.59	0.59	0.59	0.60	0.60	0.60	0.60	0.60	0.60	0.60
44_{FP}	Input	Water Delivered Measured Non Household	Ml/d	14.53	19.53	19.10	18.74	18.64	18.57	18.50	18.46	18.42	18.38	18.38	18.33	18.37	18.41	18.39	18.22	18.06	17.89	17.72	17.63	17.65	17.69	17.71	17.72	17.74	17.76	17.78	17.79	17.79
45_{FP}	Input	Measured Non Household - USPL	Ml/d	0.11	0.14	0.14	0.14	0.15	0.15	0.15	0.15	0.15	0.15	0.16	0.16	0.16	0.16	0.17	0.18	0.20	0.22	0.24	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
46_{FP}	44_{FP}-45_{FP}	Measured Non Household - Consumption	Ml/d	14.43	19.39	18.95	18.59	18.49	18.42	18.35	18.30	18.27	18.23	18.23	18.17	18.21	18.25	18.22	18.04	17.86	17.68	17.48	17.38	17.40	17.44	17.46	17.47	17.49	17.51	17.52	17.54	17.54
47_{FP}	Input	Void Properties - USPL	Ml/d	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.08	0.08	0.08	0.09	0.10	0.11	0.12	0.12	0.12	0.11	0.11	0.11	0.11	0.11	0.11	0.11
LEAKAGE FINAL PLANNING																															
48_{FP}	15_{FP}+34_{FP}+38_{FP}+42_{FP}+45_{FP}+47_{FP}	Total Leakage	Ml/d	7.31	8.97	8.95	8.95	8.95	8.95	8.95	8.95	8.95	8.95	8.95	8.95	8.95	8.95	8.95	8.96	8.90	8.83	8.76	8.73	8.73	8.73	8.73	8.73	8.73	8.73	8.73	8.73	8.73
49_{FP}	(48_{FP}*1000000)/(31_{FP}*1000)	Total Leakage	l/pr/d	119.38	145.94	144.68	143.88	143.12	142.56	141.89	140.93	139.77	138.55	137.26	135.98	134.76	133.52	132.28	131.38	129.61	127.81	125.94	124.76	123.85	122.82	121.89	121.09	120.16	119.20	118.41	117.65	116.97
SUPPLY DEMAND BALANCE FINAL PLANNING																															
50_{FP}	5_{FP}+(8_{FP}+13_{FP})-(7_{FP}+12_{FP})-10_{FP}	Total Water Available For Use	Ml/d	74.02	74.02	74.02	74.02	74.02	74.02	74.02	74.02	74.02	74.02	74.02	74.02	74.02	74.02	74.02	74.02	74.02	74.02	74.02	74.02	74.02	74.02	74.02	74.02	74.02	74.02	74.02	74.02	74.02
51_{FP}	Input	Available Headroom	Ml/d	16.35	11.14	11.65	12.03	12.08	12.17	12.28	12.31	12.24	12.23	12.03	12.55	12.28	11.99	11.98	12.48	13.21	13.96	14.77	15.21	15.12	14.78	14.52	14.28	14.02	13.75	13.54	13.33	13.33
52_{FP}	Input	Target Headroom	Ml/d	1.24	4.26	4.95	4.95	4.21	4.37	4.40	4.44	4.46	4.25	4.29	4.34	4.45	4.55	4.23	4.16	4.46	4.73	4.67	4.41	4.65	4.54	4.65	4.70	4.57	4.51	4.55	4.53	4.58
53_{FP}	51_{FP}-52_{FP}	Supply Demand Balance	Ml/d	15.11	6.87	6.70	7.07	7.88	7.80	7.88	7.87	7.78	7.97	7.74	8.21	7.82	7.44	7.75	8.32	8.74	9.23	10.10	10.80	10.46	10.25	9.86	9.58	9.45	9.24	8.99	8.80	8.75

Company:	**Thames Water**
Resource Zone Name	**Guildford**
Resource Zone Number:	**6 of 6**
Planning Scenario Name:	**Dry Year Critical Period**
Chosen Level of Service:	**Company Preferred Level of Service**

Table WRP4a-FP: Final planning WRP4a supporting transfer and DO reduction data

ROW Ref.	DERIVATION	DESCRIPTION *[Insert / delete non-numbered lines to suit]*	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
$2a_{FP}$	Input as appropriate	Reductions in Final Planning Deployable Output. Total here and specify below	Ml/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
		Climate change	Ml/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
		Sustainability Reduction	Ml/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
		Network Constraints	Ml/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
			Ml/d																													
			Ml/d																													
$7a_{FP}$	Input as appropriate	Final Planning Raw Water Exported. Total here and specify below	Ml/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	Ml/d																													
		to	Ml/d																													
		to	Ml/d																													
$8a_{FP}$	Input as appropriate	Final Planning Raw Water Imported. Total here and specify below	Ml/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	Ml/d																													
		from	Ml/d																													
		from	Ml/d																													
$10a_{FP}$	Input as appropriate	Final Planning Non Potable Supplies. Total here and specify below	Ml/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	Ml/d																													
		to	Ml/d																													
		to	Ml/d																													
$12a_{FP}$	Input as appropriate	Final Planning Potable Water Exported. Total here and specify below	Ml/d	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30
		to Three Valleys Water Co (Ext)	Ml/d	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30
		to	Ml/d																													
		to	Ml/d																													
		to	Ml/d																													
		to	Ml/d																													
$13a_{FP}$	Input as appropriate	Final Planning Potable Water Imported. Total here and specify below	Ml/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 South East Water (Ext)	Ml/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	Ml/d																													
		from	Ml/d																													
		from	Ml/d																													
		from	Ml/d																													

Company: Thames Water

Resource Zone Name Guildford

Resource Zone Number: 6 of 6

Planning Scenario Name: Dry Year Critical Period

Chosen Level of Service: Company Preferred Level of Service

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	28/39/30/0092B	Ladymead*	GW		13.00	13.64	L	1992-2007	
5.2	Input	28/39/30/0092C	Dapdune*	GW		12.00	13.64	L	1992-2003	
5.3	Input	28/39/30/0092A	Millmead* (Licence Aggregated with Ladymead, Dapdune, and Millmead)	GW		4.50	4.55	L	1906-2005	
5.4	Input	28/39/30/0088	Netley Mill	GW		5.70	5.68	L	1962-1997	
5.5	Input	28/39/30/0289A	Blackheath Lane* (Disused)	GW		0.00	6.82	Disused	1964	
5.6	Input	28/39/30/0289B	Brook*	GW		2.30	**	L	1964-1997	
5.7	Input	28/39/30/0289C	Cotterells Farm*	GW		1.90	**	L	1964-1997	
5.8	Input	28/39/30/0289D	Shere Heath* (licence aggregated with Blackheath Lane, Brook, Cotterells Farm and Shere Heath)	GW		2.20	**	L	1965-1997	
5.9	Input	28/39/30/0089	Mousehill & *	GW		4.10	6.82		1992-2006	
5.10	Input	28/39/30/0089	Rodborough * (Licence aggregated with Mousehill)	GW		2.70	**	L	1978-2003	
5.11	Input	28/39/30/0086	Sturt Road	GW		1.90	2.83	GWL	1990-2006	1992
5.12	Input	28/39/30/0319	Shalford	SW		26.40	30.00		1954-2007	1956
5.13	Input									
5.14	Input									
5.15	Input									
5.16	Input		* Licenced volume or DO aggregated with another source							
5.17	Input		** Aggregated with the source value above it							
5.18	Input									
5.19	Input		L = Licence							
5.20	Input		Q = Quality							
5.21	Input		P = Pump Size or Depth							
5.22	Input		GWL = Low Groundwater Levels							
5.23	Input		B = Borehole depth or restriction							
5.24	Input		T = Treatment							
5.25	Input		RWL = Rest Water Level							
5.26	Input		PWL = Pumping Water Level							
5.27	Input									
5.28	Input									
5.29	Input									
5.30	Sum (5.1:6.40) Total reconciled DO				0.00	76.70	83.98			

Company:	**Thames Water**
Resource Zone Name	**Guildford**
Resource Zone Number:	**6 of 6**
Planning Scenario Name:	**Dry Year Critical Period**
Chosen Level of Service:	**Company Preferred Level of Service**

Table WRP6: Baseline 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_{BL}	$6.5_{BL}+6.9_{BL}+6.13_{BL}+6.17_{BL}+6.21_{BL}+6.25_{BL}$	Total	Population	000's	40.86	44.98	46.54	47.83	49.18	50.21	51.28	52.64	54.28	55.88	57.81	59.72	61.65	63.61	65.59	67.35	68.83	70.32	71.75	73.23	74.76	76.49	77.98	79.35	80.91	82.58	84.09	85.67	87.26
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	19.43	20.35	21.12	21.84	22.51	23.06	23.66	24.39	25.22	26.09	27.01	27.92	28.82	29.74	30.68	31.54	32.32	33.08	33.84	34.58	35.40	36.30	37.14	37.92	38.78	39.67	40.46	41.24	42.03
6.3_{BL}	$6.1_{BL}/6.2_{BL}$	Total	Occupancy	h/prop	2.10	2.21	2.20	2.19	2.18	2.18	2.17	2.16	2.15	2.14	2.14	2.14	2.14	2.14	2.14	2.14	2.13	2.13	2.12	2.12	2.11	2.11	2.10	2.09	2.09	2.08	2.08	2.08	2.08
6.5_{BL}	Input	Meter optants	Population	000's			0.58	1.25	1.86	2.42	2.97	3.52	4.07	4.61	5.17	5.72	6.28	6.84	7.40	7.95	8.50	9.05	9.59	10.14	10.68	11.21	11.73	12.25	12.78	13.43	14.10	14.78	15.33
6.6_{BL}	Input	Meter optants	Properties	000's			0.37	0.79	1.18	1.53	1.88	2.23	2.58	2.93	3.28	3.63	3.98	4.33	4.68	5.03	5.38	5.73	6.08	6.43	6.78	7.13	7.48	7.83	8.18	8.53	8.88	9.23	9.58
6.7_{BL}	$6.5_{BL}/6.6_{BL}$	Meter optants	Occupancy	h/prop	#DIV/0!	#DIV/0!	1.59	1.58	1.59	1.59	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.57	1.57	1.57	1.56	1.58	1.59	1.60	1.60
6.8_{BL}	Input	Meter optants	pcc	l/h/d			157.23	157.12	156.79	156.54	156.33	156.37	156.38	156.65	156.78	157.21	157.73	158.32	159.06	159.86	160.93	161.96	162.99	164.08	164.41	164.86	165.28	165.60	166.58	166.08	165.59	165.12	165.22
6.9_{BL}	Input	New properties	Population	000's			0.95	1.65	2.33	2.80	3.38	4.28	5.41	6.61	7.93	9.26	10.57	11.92	13.31	14.52	15.52	16.48	17.40	18.33	19.40	20.65	21.75	22.70	23.84	25.00	25.96	26.91	27.93
6.10_{BL}	Input	New properties	Properties	000's			0.40	0.70	0.99	1.18	1.44	1.82	2.30	2.82	3.38	3.95	4.50	5.07	5.65	6.17	6.60	7.01	7.41	7.81	8.27	8.82	9.32	9.74	10.26	10.80	11.24	11.67	12.10
6.11_{BL}	$6.9_{BL}/6.10_{BL}$	New properties	Occupancy	h/prop	#DIV/0!	#DIV/0!	2.36	2.36	2.36	2.36	2.36	2.35	2.35	2.34	2.35	2.35	2.35	2.35	2.36	2.35	2.35	2.35	2.35	2.35	2.34	2.34	2.33	2.33	2.32	2.32	2.31	2.31	2.31
6.12_{BL}	Input	New properties	pcc	l/h/d			144.96	144.89	143.91	142.98	141.73	140.15	138.32	136.76	135.56	134.99	134.74	134.67	134.81	135.14	135.81	136.47	136.47	137.21	137.26	137.35	137.48	137.58	137.48	137.31	137.19	137.64	138.09
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!	#DIV/0!	#DIV/0!
6.16_{BL}	Input	Metering on change of 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_{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!	#DIV/0!	#DIV/0!	#DIV/0!
6.20_{BL}	Input	Selective metering	pcc	l/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!	#DIV/0!	#DIV/0!	#DIV/0!
6.24_{BL}	Input	Compulsory metering	pcc	l/h/d																													
6.25_{BL}	Input	Existing Metering	Population	000's	40.86	44.98	45.01	44.92	44.99	45.00	44.92	44.84	44.81	44.67	44.71	44.74	44.80	44.85	44.89	44.88	44.82	44.80	44.76	44.76	44.69	44.63	44.50	44.40	44.29	44.14	44.03	43.97	44.00
6.26_{BL}	Input	Existing Metering	Properties	000's	19.43	20.35	20.35	20.35	20.35	20.35	20.35	20.35	20.35	20.35	20.35	20.35	20.35	20.35	20.35	20.35	20.35	20.35	20.35	20.35	20.35	20.35	20.35	20.35	20.35	20.35	20.35	20.35	20.35
6.27_{BL}	$6.25_{BL}/6.26_{BL}$	Existing Metering	Occupancy	h/prop	2.10	2.21	2.21	2.21	2.21	2.21	2.21	2.20	2.20	2.19	2.20	2.20	2.20	2.20	2.21	2.21	2.20	2.20	2.20	2.20	2.20	2.19	2.19	2.18	2.18	2.17	2.16	2.16	2.16
6.28_{BL}	Input	Existing Metering	pcc	l/h/d	0.00	160.33	160.64	160.51	160.35	160.23	160.30	160.51	160.76	161.17	161.43	161.88	162.36	162.90	163.53	164.28	165.13	165.85	166.83	167.47	168.68	169.89	171.16	172.21	172.89	173.77	174.45	174.46	174.10

Company: Thames Water

Resource Zone Name Guildford

Resource Zone Number: 6 of 6

Planning Scenario Name: Dry Year Critical Period

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_{FP}	$6.5_{FP}+6.9_{FP}+6.13_{FP}+6.17_{FP}+6.21_{FP}+6.25_{FP}$	Total	Population	000's	40.86	44.98	46.54	47.83	49.52	51.21	52.92	54.91	57.15	59.31	61.79	64.23	66.68	69.14	76.36	88.11	99.79	111.84	124.24	131.11	132.00	133.10	133.88	134.58	135.46	136.48	137.24	138.05	138.87
6.2_{FP}	$6.6_{FP}+6.10_{FP}+6.14_{FP}+6.18_{FP}+6.22_{FP}+6.26_{FP}$	Total	Properties	000's	19.43	20.35	21.12	21.84	22.66	23.50	24.39	25.40	26.49	27.60	28.74	29.87	30.97	32.08	35.14	40.08	44.93	49.74	54.52	57.11	57.57	58.12	58.62	59.04	59.56	60.10	60.54	60.97	61.40
6.3_{FP}	$6.1_{FP}/6.2_{FP}$	Total	Occupancy	h/prop	2.10	2.21	2.20	2.19	2.19	2.18	2.17	2.16	2.16	2.15	2.15	2.15	2.15	2.16	2.17	2.20	2.22	2.25	2.28	2.30	2.29	2.29	2.28	2.28	2.27	2.27	2.27	2.26	2.26
6.5_{FP}	Input	Meter optants	Population	000's			0.58	1.25	1.92	2.59	3.25	3.87	4.48	5.04	5.60	6.14	6.67	7.17	7.66	8.14	8.58	9.14	9.68	9.96	9.95	9.93	9.91	9.88	9.86	9.84	9.83	9.81	9.80
6.6_{FP}	Input	Meter optants	Properties	000's			0.37	0.79	1.21	1.63	2.05	2.45	2.84	3.20	3.55	3.89	4.22	4.53	4.84	5.14	5.43	5.71	5.97	6.10	6.10	6.10	6.10	6.10	6.10	6.10	6.10	6.10	6.10
6.7_{FP}	$6.5_{FP}/6.6_{FP}$	Meter optants	Occupancy	h/prop	#DIV/0!	#DIV/0!	1.59	1.58	1.59	1.59	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.60	1.62	1.63	1.63	1.63	1.62	1.62	1.62	1.61	1.61	1.61	1.61
6.8_{FP}	Input	Meter optants	pcc	l/h/d			157.23	157.12	156.64	156.43	156.27	156.31	156.31	156.55	156.64	149.15	149.54	149.98	150.48	150.96	151.67	151.65	151.61	151.92	152.22	152.64	153.04	153.33	154.29	154.40	154.47	154.52	154.60
6.9_{FP}	Input	New properties	Population	000's			0.95	1.65	2.33	2.80	3.38	4.28	5.41	6.61	7.93	9.26	10.57	11.92	13.31	14.52	15.50	16.46	17.38	18.26	19.33	20.58	21.67	22.62	23.76	24.96	25.93	26.89	27.86
6.10_{FP}	Input	New properties	Properties	000's			0.40	0.70	0.99	1.18	1.44	1.82	2.30	2.82	3.38	3.95	4.50	5.07	5.65	6.17	6.60	7.01	7.41	7.81	8.27	8.82	9.32	9.74	10.26	10.80	11.24	11.67	12.10
6.11_{FP}	$6.9_{FP}/6.10_{FP}$	New properties	Occupancy	h/prop	#DIV/0!	#DIV/0!	2.36	2.36	2.36	2.36	2.36	2.35	2.35	2.34	2.35	2.35	2.35	2.35	2.36	2.36	2.35	2.35	2.35	2.34	2.34	2.33	2.33	2.32	2.32	2.31	2.31	2.30	2.30
6.12_{FP}	Input	New properties	pcc	l/h/d			144.96	144.89	143.80	142.91	141.72	140.17	138.35	136.80	135.58	128.24	127.93	127.78	127.75	127.82	128.20	128.56	128.26	128.84	128.87	128.96	129.07	129.14	129.04	128.87	128.75	129.16	129.58
6.13_{FP}	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_{FP}	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_{FP}	$6.13_{FP}/6.14_{FP}$	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_{FP}	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_{FP}	Input	Selective metering	Population	000's																													
6.18_{FP}	Input	Selective metering	Properties	000's																													
6.19_{FP}	$6.17_{FP}/6.18_{FP}$	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_{FP}	Input	Selective metering	pcc	l/h/d																													
6.21_{FP}	Input	Compulsory metering	Population	000's					0.27	0.82	1.37	1.91	2.46	3.00	3.54	4.09	4.64	5.19	10.50	20.56	30.93	41.50	52.45	58.29	58.20	58.12	57.96	57.83	57.70	57.60	57.49	57.42	57.34
6.22_{FP}	Input	Compulsory metering	Properties	000's					0.11	0.34	0.56	0.78	1.01	1.23	1.46	1.68	1.91	2.13	4.30	8.42	12.55	16.67	20.79	22.85	22.85	22.85	22.85	22.85	22.85	22.85	22.85	22.85	22.85
6.23_{FP}	$6.21_{FP}/6.22_{FP}$	Compulsory metering	Occupancy	h/prop	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	2.45	2.45	2.44	2.44	2.44	2.43	2.43	2.43	2.44	2.44	2.44	2.44	2.47	2.49	2.52	2.55	2.55	2.54	2.54	2.53	2.52	2.52	2.52	2.51	2.51
6.24_{FP}	Input	Compulsory metering	pcc	l/h/d					164.96	164.58	164.25	163.94	163.64	163.44	163.23	155.08	155.16	155.28	154.62	155.14	155.20	155.93	154.95	155.14	156.84	159.08	159.63	160.19	160.73	161.28	161.86	162.45	163.05
6.25_{FP}	Input	Existing Metering	Population	000's	40.86	44.98	45.01	44.92	44.99	45.00	44.92	44.84	44.81	44.67	44.71	44.74	44.80	44.85	44.89	44.89	44.77	44.75	44.72	44.60	44.53	44.47	44.34	44.25	44.15	44.07	43.99	43.93	43.88
6.26_{FP}	Input	Existing Metering	Properties	000's	19.43	20.35	20.35	20.35	20.35	20.35	20.35	20.35	20.35	20.35	20.35	20.35	20.35	20.35	20.35	20.35	20.35	20.35	20.35	20.35	20.35	20.35	20.35	20.35	20.35	20.35	20.35	20.35	20.35
6.27_{FP}	$6.25_{FP}/6.26_{FP}$	Existing Metering	Occupancy	h/prop	2.10	2.21	2.21	2.21	2.21	2.21	2.21	2.20	2.20	2.19	2.20	2.20	2.20	2.20	2.21	2.21	2.20	2.20	2.20	2.19	2.19	2.19	2.18	2.17	2.17	2.17	2.16	2.16	2.16
6.28_{FP}	Input	Existing Metering	pcc	l/h/d	0.00	160.33	160.64	160.51	160.13	159.89	159.88	159.98	160.11	160.40	160.49	152.70	152.90	153.12	152.12	149.58	147.09	143.62	141.60	140.13	139.76	138.62	140.09	141.25	142.09	142.77	143.37	143.29	143.06

Company: Thames Water

Resource Zone Name Guildford

Resource Zone Number: 6 of 6

Planning Scenario Name: Dry Year Critical Period

Chosen Level of Service: Company Preferred Level of Service

Table WRP7: Baseline household micro-component consumption

Row Ref	Derivation	Description *Insert additional components as required*	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																												
7.2	Input	Unmeasured bath use	l/h/d																												
7.3	Input	Unmeasured shower use	l/h/d																												
7.4	Input	Unmeasured hand basin	l/h/d																												
7.5	Input	Unmeasured clothes washing	l/h/d																												
7.6	Input	Unmeasured dish washing	l/h/d																												
7.7	Input	Unmeasured garden use	l/h/d																												
7.8	Input	Unmeasured car washing	l/h/d																												
7.9	Input	Unmeasured miscellaneous use	l/h/d																												
7.10	Input	Unmeasued wastage	l/h/d																												
7.11	Input	Unmeasured water efficiency	l/h/d																												
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7.20	Input	Measured toilet flushing	l/h/d																												
7.21	Input	Measured bath use	l/h/d																												
7.22	Input	Measured shower use	l/h/d																												
7.23	Input	Measured hand basin	l/h/d																												
7.24	Input	Measured clothes washing	l/h/d																												
7.25	Input	Measured dish washing	l/h/d																												
7.26	Input	Measured garden use	l/h/d																												
7.27	Input	Measured car washing	l/h/d																												
7.28	Input	Measured miscellaneous use	l/h/d																												
7.29	Input	Measued wastage	l/h/d																												
7.30	Input	Measured water efficiency	l/h/d																												
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Company: Thames Water

Resource Zone Name Guildford

Resource Zone Number: 6 of 6

Planning Scenario Name: Dry Year Critical Period

Chosen Level of Service: Company Preferred Level of Service

Table WRP7a: Final planning household micro-component consumption

Row Ref	Derivation	Description *Insert additional components as required*	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																												
7.2	Input	Unmeasured bath use	l/h/d																												
7.3	Input	Unmeasured shower use	l/h/d																												
7.4	Input	Unmeasured hand basin	l/h/d																												
7.5	Input	Unmeasured clothes washing	l/h/d																												
7.6	Input	Unmeasured dish washing	l/h/d																												
7.7	Input	Unmeasured garden use	l/h/d																												
7.8	Input	Unmeasured car washing	l/h/d																												
7.9	Input	Unmeasured miscellaneous use	l/h/d																												
7.10	Input	Measued wastage	l/h/d																												
7.11	Input	Measured water efficiency	l/h/d																												
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7.20	Input	Measured toilet flushing	l/h/d																												
7.21	Input	Measured bath use	l/h/d																												
7.22	Input	Measured shower use	l/h/d																												
7.23	Input	Measured hand basin	l/h/d																												
7.24	Input	Measured clothes washing	l/h/d																												
7.25	Input	Measured dish washing	l/h/d																												
7.26	Input	Measured garden use	l/h/d																												
7.27	Input	Measured car washing	l/h/d																												
7.28	Input	Measured miscellaneous use	l/h/d																												
7.29	Input	Measued wastage	l/h/d																												
7.30	Input	Measured water efficiency	l/h/d																												
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Company: Thames Water

Resource Zone Name Guildford

Resource Zone Number: 6 of 6

Planning Scenario Name: Dry Year Critical Period

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	Ml/d																											
8.2	Input	Extraction of metals, minerals and energy producing materials	B5, B6, B7, B8, B9	Ml/d																											
8.3	Input	Food and drink (manufacture)	C10, C11, C12	Ml/d																											
8.4	Input	Textile, fur and leather (manufacture)	C13, C14, C15	Ml/d																											
8.5	Input	Other manufacturing	C16, C26, C27, C31, C32, C33	Ml/d																											
8.6	Input	Paper (manufacture)	C17, C18	Ml/d																											
8.7	Input	Fuel refining	C19	Ml/d																											
8.8	Input	Chemicals, rubbers, plastics and man-made material (manufacture)	C20, C21, C22	Ml/d																											
8.9	Input	Manufacture of non-metallic minerals	C23	Ml/d																											
8.10	Input	Manufacture of basic metals, fabricated metal products and	C24, C25, C28, C29	Ml/d																											
8.11	Input	Transportation and manufacture of transport equipment	C30, H49, H50, H51, H52, H53	Ml/d																											
8.12	Input	Electricity, gas and water supplies	D35, E36, E37, E38, E39	Ml/d																											
8.13	Input	Construction	F41, F42, F43	Ml/d																											
8.14	Input	Wholesale and retail	G45, G46, G47	Ml/d																											
8.15	Input	Hotels, bars and restaurants	I55, I56	Ml/d																											
8.16	Input	Other services	J, K, L, M, N, O, R, S, T, U	Ml/d																											
8.17	Input	Education and Health	P, Q	Ml/d																											
8.18	Input			Ml/d																											
8.19	Input			Ml/d																											
8.20	Input			Ml/d																											

Company: Thames Water

Resource Zone Name Guildford

Resource Zone Number: 6 of 6

Planning Scenario Name: Dry Year Critical Period

Chosen Level of Service: Company Preferred Level of Service

Table WRP9: Normal year 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 NORMAL YEAR																															
3_N	Input	Outage Allowance	Ml/d																												
5_N	Input	Water Available For Use (own sources)	Ml/d																												
RAW WATER NORMAL YEAR																															
6_N	Input	Raw Water Abstracted	Ml/d																												
7_N	Input	Raw Water Exported (existing)	Ml/d																												
8_N	Input	Raw Water Imported (existing)	Ml/d																												
9_N	Input	Raw Water Losses and Operational Use	Ml/d																												
10_N	Input	Non Potable Supplies (existing)	Ml/d																												
POTABLE WATER TO POINT OF DELIVERY NORMAL YEAR																															
11_N	Input	Treatment Works Losses and Operational Use	Ml/d																												
12_N	Input	Potable Water Exported	Ml/d																												
13_N	Input	Potable Water Imported	Ml/d																												
14_N	Input	Distribution Input	Ml/d																												
15_N	Input	Distribution Losses	Ml/d																												
16_N	Input	Distribution System Operational Use	Ml/d																												
17_N	14_N-15_N-16_N	Water Delivered	Ml/d	0.00																											
POTABLE WATER DELIVERED NORMAL YEAR																															
32_N	Input	Water Taken Unbilled	Ml/d																												
33_N	Input	Water Delivered Unmeasured Household	Ml/d																												
34_N	Input	Unmeasured Household - USPL	Ml/d																												
35_N	33_N-34_N	Unmeasured Household - Consumption	Ml/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
36_N	Input	Unmeasured Household - PCC	l/h/d																												
37_N	Input	Water Delivered Measured Household	Ml/d																												
38_N	Input	Measured Household - USPL	Ml/d																												
39_N	37_N-38_N	Measured Household - Consumption	Ml/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
40_N	Input	Measured Household - PCC	l/h/d																												
41_N	Input	Water Delivered Unmeasured Non Household	Ml/d																												
42_N	Input	Unmeasured Non Household - USPL	Ml/d																												
43_N	41_N-42_N	Unmeasured Non Household - Consumption	Ml/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
44_N	Input	Water Delivered Measured Non Household	Ml/d																												
45_N	Input	Measured Non Household - USPL	Ml/d																												
46_N	44_N-45_N	Measured Non Household - Consumption	Ml/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
47_N	Input	Void Properties - USPL	Ml/d																												
LEAKAGE NORMAL YEAR																															
48_N	Input	Total Leakage	Ml/d																												
49_N	Input	Total Leakage	l/pr/d																												
SUPPLY DEMAND BALANCE NORMAL YEAR																															
50_N	5_N+(8_N+13_N)-(7_N+12_N)-10_N	Total Water Available For Use	Ml/d	0.00																											
51_N	Input	Available Headroom	Ml/d																												
52_N	Input	Target Headroom	Ml/d																												
53_N	51_N-52_N	Supply Demand Balance	Ml/d	0.00																											

Company:	**Thames Water**
Resource Zone Name	**Guildford**
Resource Zone Number:	**6 of 6**
Planning Scenario Name:	**Dry Year Critical Period**
Chosen Level of Service:	**Company Preferred Level of Service**