

Water Resources Planning Guideline supply-demand workbook - Version 2.6

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: Essex & Suffolk Water
Resource Zone Name Suffolk Hartismere
Resource Zone Number: 3 of 4
Planning Scenario Name: Dry Year (except where stated otherwise)
Chosen Level of Service: Company Specified

Responsible Officer: Martin Lunn

Signed: M. Lunn

Dated: January 2010

Version: Final

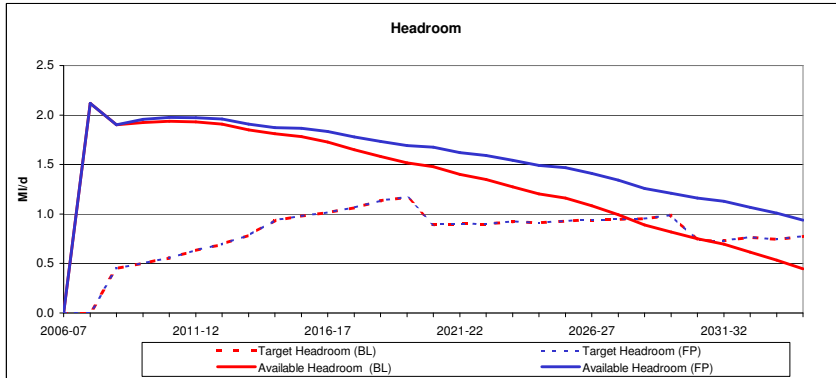
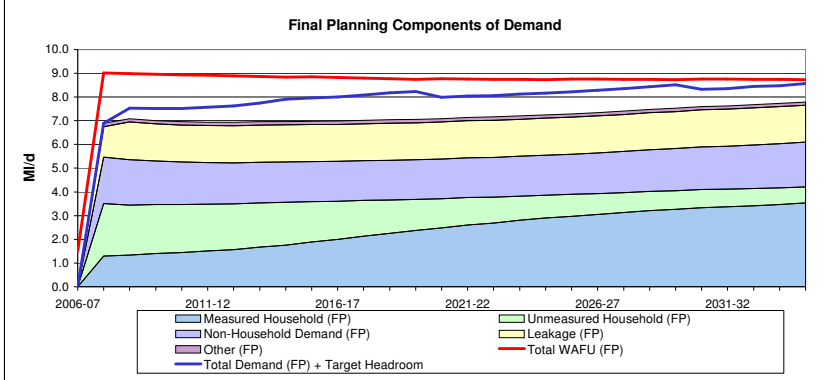
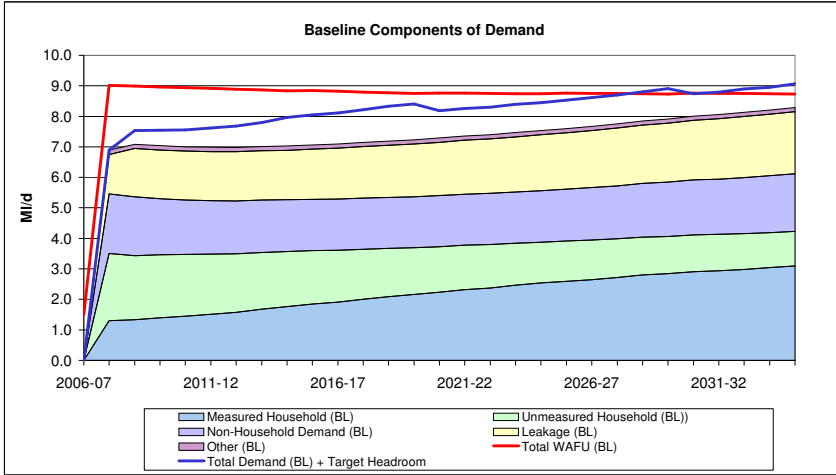
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Workbook contents

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Summary graphs of WRP tables input data

DERIVATION	DESCRIPTION	UNITS	2006-07	2007-08	2008-09	2009-10	2010-11
SUPPLY							
50BL	Total WAFU (BL)	MI/d	1.50	9.01	8.99	8.96	8.94
50FP	Total WAFU (FP)	MI/d	1.50	9.01	8.99	8.96	8.94
DEMAND							
35BL	Unmeasured Household (BL)	MI/d	0.00	2.20	2.10	2.06	2.02
35FP	Unmeasured Household (FP)	MI/d	0.00	2.20	2.10	2.06	2.02
39BL	Measured Household (BL)	MI/d	0.00	1.30	1.34	1.40	1.45
39FP	Measured Household (FP)	MI/d	0.00	1.30	1.34	1.40	1.45
43BL+46BL	Non-Household Demand (BL)	MI/d	0.00	1.95	1.92	1.84	1.79
43FP+46FP	Non-Household Demand (FP)	MI/d	0.00	1.95	1.92	1.84	1.79
48BL	Leakage (BL)	MI/d	0.00	1.29	1.59	1.59	1.60
48FP	Leakage (FP)	MI/d	0.00	1.29	1.59	1.59	1.56
14BL-(35BL+39BL+43BL+46BL+48BL)	Other (BL)	MI/d	0.00	0.15	0.14	0.14	0.14
14FP-(35FP+39FP+43FP+46FP+48FP)	Other (FP)	MI/d	0.00	0.15	0.14	0.14	0.14
SUPPLY-DEMAND BALANCE							
52BL	Target Headroom (BL)	1 of 1	0.00	0.00	0.45	0.51	0.56
52FP	Target Headroom (FP)	MI/d	0.00	0.00	0.45	0.51	0.56
Total Supply - Total Demand	Available Headroom (BL)	MI/d	0.00	2.12	1.90	1.93	1.94
Total Supply - Total Demand	Available Headroom (FP)	MI/d	0.00	2.12	1.90	1.96	1.98



Company:	Essex & Suffolk Water
Resource Zone Name	Suffolk Hartismere
Resource Zone Number:	3 of 4
Planning Scenario Name:	Dry Year (except where stated otherwise)
Chosen Level of Service:	Company Specified

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 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	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	
		none	M/d																													
			M/d																													
			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	
		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	1.50	1.50	1.50	1.50	1.50	1.50	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	
		from Bleach Green (in ESW's Northern/Central zone)	M/d	1.50	1.50	1.50	1.50	1.50	1.50	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	
		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	
		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	
		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	
		from	M/d																													
		from	M/d																													
		from	M/d																													

Company:	Essex & Suffolk Water
Resource Zone Name:	Suffolk Hartismere
Resource Zone Number:	3 of 4
Planning Scenario Name:	Dry Year (except where stated otherwise)
Chosen Level of Service:	Company Specified

Table WRP2: Feasible list of water management options

ROW Ref.	DERIVATION	OPTION DESCRIPTION <i>[Insert / delete non-numbered lines to suit]</i>	WATER MANAGEMENT OPTION COST AND SOLUTION - TO BE COMPLETED FOR ALL FEASIBLE OPTIONS										
			OPTION REFERENCE No.	WAFU ON FULL IMPLEMENTATION (MI/d)	EARLIEST POTENTIAL OPTION START DATE (YEAR)	NPV of WAFU (MI)	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....											
		none											
55	Input as appropriate	Distribution Side Management, Specify Below....											
		none											
56	Input as appropriate	Production Side Management, Specify Below....											
		none											
57	Input as appropriate	Resource Management, Specify Below....											
		none											

Company:	<u>Essex & Suffolk Water</u>
Resource Zone Name	<u>Suffolk Hartismere</u>
Resource Zone Number:	<u>3 of 4</u>
Planning Scenario Name:	<u>Dry Year (except where stated otherwise)</u>
Chosen Level of Service:	<u>Company Specified</u>

Table WRP4-FP: Final planning supply-demand components

ROW Ref.	DERIVATION	DESCRIPTION	UNITS	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}	WRP1-BL 1 _{BL} + WRP3 65	Deployable Output	M/d	8.50	8.47	8.45	8.42	8.40	8.37	8.35	8.32	8.30	8.27	8.25	8.22	8.20	8.18	8.18	8.17	8.16	8.16	8.15	8.14	8.13	8.13	8.12	8.11	8.11	8.10	8.09	8.09		
2 _{FP}	WRP4a-FP 2a _{FP}	Reductions in Deployable Output	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			
3 _{FP}	Input	Outage Allowance	M/d	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64			
4 _{FP}	9 _{FP} +11 _{FP}	Process Losses	M/d	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.30	0.30	0.30	0.30	0.30	0.26	0.26	0.26	0.26	0.26	0.23	0.23	0.23	0.23	0.20	0.20	0.20	0.20	0.20			
5 _{FP}	1 _{FP} (2 _{FP} +3 _{FP} +4 _{FP})	Water Available For Use (own sources)	M/d	7.51	7.49	7.47	7.44	7.42	7.39	7.37	7.35	7.36	7.33	7.31	7.28	7.26	7.28	7.27	7.27	7.26	7.25	7.28	7.27	7.26	7.26	7.25	7.28	7.27	7.26	7.26			
RAW WATER FINAL PLANNING																																	
6 _{FP}	Input	Raw Water Abstracted	M/d	5.67	5.83	5.76	5.72	5.71	5.70	5.72	5.73	5.74	5.74	5.77	5.79	5.80	5.83	5.87	5.89	5.92	5.96	6.00	6.04	6.09	6.15	6.19	6.25	6.27	6.31	6.36	6.41		
7 _{FP}	WRP4a-FP 7a _{FP}	Raw Water Exported	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 _{FP}	WRP4a-FP 8a _{FP}	Raw Water Imported	M/d	1.50	1.50	1.50	1.50	1.50	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48		
9 _{FP}	Input	Raw Water Losses and Operational Use	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			
10 _{FP}	WRP4a-FP 10a _{FP}	Non Potable Supplies	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			
POTABLE WATER TO POINT OF DELIVERY FINAL PLANNING																																	
11 _{FP}	Input	Treatment Works Losses and Operational Use	M/d	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.34	0.30	0.30	0.30	0.30	0.30	0.26	0.26	0.26	0.26	0.26	0.23	0.23	0.23	0.23	0.23	0.20	0.20	0.20	0.20			
12 _{FP}	WRP4a-FP 12a _{FP}	Potable Water Exported	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			
13 _{FP}	WRP4a-FP 13a _{FP}	Potable Water Imported	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			
14 _{FP}	Input	Distribution Input	M/d	6.90	7.09	7.01	6.96	6.94	6.93	6.96	6.97	6.98	6.99	7.02	7.04	7.06	7.09	7.14	7.16	7.20	7.25	7.29	7.35	7.41	7.48	7.53	7.60	7.62	7.68	7.73	7.79		
15 _{FP}	Input	Distribution Losses	M/d	1.10	1.41	1.39	1.39	1.39	1.39	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.36	1.36	1.36	1.36	1.36		
16 _{FP}	Input	Distribution System Operational Use	M/d	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05			
17 _{FP}	14 _{FP} +15 _{FP} +16 _{FP}	Water Delivered	M/d	5.75	5.63	5.57	5.53	5.51	5.50	5.53	5.54	5.56	5.56	5.59	5.61	5.63	5.67	5.72	5.74	5.78	5.83	5.88	5.93	5.99	6.07	6.11	6.19	6.22	6.27	6.33	6.39		
POTABLE WATER CUSTOMER USE FINAL PLANNING																																	
18 _{FP}	Input	Unmeasured Household - Population	000's	14.24	13.73	13.54	13.34	13.09	12.76	12.40	12.06	11.39	10.74	10.11	9.47	8.91	8.42	7.92	7.48	7.01	6.58	6.38	6.10	5.87	5.60	5.41	5.28	5.17	5.01	4.87	4.69		
19 _{FP}	Input	Unmeasured Household - Properties	000's	4.60	4.47	4.37	4.28	4.18	4.08	3.99	3.91	3.73	3.56	3.38	3.22	3.07	2.93	2.80	2.67	2.55	2.45	2.38	2.33	2.28	2.22	2.17	2.13	2.10	2.07	2.04	2.01		
20 _{FP}	18 _{FP} +19 _{FP}	Unmeasured Household - Occupancy Rate	h/pr	3.10	3.07	3.10	3.12	3.13	3.12	3.11	3.08	3.05	3.02	2.99	2.94	2.91	2.87	2.83	2.80	2.75	2.69	2.68	2.62	2.58	2.52	2.49	2.48	2.46	2.42	2.39	2.33		
21 _{FP}	WRP6a-6.1 _{FP}	Measured Household - Population	000's	9.981	10.289	10.802	11.243	11.718	12.274	13.166	13.868	14.592	15.149	15.898	16.577	17.197	17.823	18.577	19.089	19.881	20.440	20.885	21.381	21.972	22.631	22.995	23.537	23.785	24.201	24.682	25.155		
22 _{FP}	WRP6a-6.2 _{FP}	Measured Household - Properties	000's	5.454	5.601	5.842	6.047	6.268	6.520	6.910	7.222	7.534	7.777	8.100	8.393	8.660	8.946	9.267	9.487	9.824	10.059	10.272	10.477	10.722	10.995	11.146	11.432	11.535	11.710	11.911	12.108		
23 _{FP}	21 _{FP} +22 _{FP}	Measured Household - Occupancy Rate	h/pr	1.83	1.84	1.85	1.86	1.87	1.88	1.91	1.92	1.94	1.96	1.98	1.99	2.00	2.01	2.02	2.03	2.03	2.04	2.05	2.06	2.06	2.06	2.06	2.06	2.06	2.07	2.07	2.08		
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			
25 _{FP}	Input	Unmeasured Non Household - Properties	000's	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002			
26 _{FP}	Input	Measured Non Household - Population	000's	0.619	0.619	0.619	0.619	0.619	0.619	0.619	0.619	0.619	0.619	0.619	0.619	0.619	0.619	0.619	0.619	0.619	0.619	0.619	0.619	0.619	0.619	0.619	0.619	0.619	0.619	0.619			
27 _{FP}	Input	Measured Non Household - Properties	000's	0.906	0.907	0.913	0.919	0.924	0.930	0.935	0.941	0.946	0.952	0.957	0.963	0.974	0.979	0.985	0.990	0.996	1.001	1.007	1.012	1.018	1.023	1.029	1.034	1.040	1.045	1.050			
28 _{FP}	18 _{FP} +21 _{FP} +24 _{FP} +26 _{FP}	Total Population	000's	24.843	24.640	24.962	25.204	25.427	25.658	26.186	26.543	26.602	26.511	26.629	26.669	26.728	26.859	27.119	27.190	27.506	27.641	27.880	28.098	28.460	28.854	29.021	29.435	29.573	29.834	30.171	30.468		
29 _{FP}	Input	Void Households	000's	0.351	0.420	0.426	0.430	0.435	0.442	0.454	0.464	0.474	0.482	0.493	0.502	0.511	0.522	0.533	0.541	0.553	0.562	0.570	0.579	0.589	0.600	0.606	0.617	0.621	0.628	0.636	0.644		
30 _{FP}	Input	Void Non Households	000's	0.087	0.091	0.091	0.092	0.092	0.093	0.094	0.094	0.095	0.095	0.096	0.096	0.097	0.097	0.098	0.098	0.099	0.100	0.100	0.101	0.101	0.102	0.102	0.103	0.103	0.104	0.104	0.105		
30.1 _{FP}	22 _{FP} /(22 _{FP} +19 _{FP})	Total Household Metering penetration (excl. voids)	%	54%	56%	57%	59%	60%	61%	63%	65%	67%	69%	71%	72%	74%	75%	77%	78%	79%	80%	81%	82%	82%	83%	84%	84%	85%	85%	86%			
30.2 _{FP}	22 _{FP} /(22 _{FP} +19 _{FP} +29 _{FP})	Total Household Metering penetration (incl. voids)	%	52%	53%	55%	56%	58%	59%	61%	62%	64%	66%	68%	69%	71%	72%	74%	75%	76%	77%	78%	79%	80%	80%	81%	81%	81%	82%	82%			
31 _{FP}	19 _{FP} +22 _{FP} +25 _{FP} +27 _{FP} +29 _{FP} +30 _{FP}	Total Properties	000's	11.396	11.493	11.644	11.765	11.902	12.071	12.384	12.632	12.781	12.863	13.032	13.174	13.305	13.471	13.678	13.784	14.016	14.164	14.325	14.492	14.701	14.940	15.050	15.313	15.396	15.552	15.738	15.922		
POTABLE WATER DELIVERED FINAL PLANNING																																	
32 _{FP}	Input	Water Taken Unbilled	M/d	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11			
33 _{FP}	Input	Water Delivered Unmeasured Household	M/d	2.30	2.19	2.15	2.11	2.07	2.01	1.95	1.89	1.78	1.67	1.57</																			

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

ROW Ref.	DERIVATION	DESCRIPTION <i>(Insert / delete non-numbered lines to suit)</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
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	
		<i>none</i>	Ml/d																													
			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	
		<i>to</i>	Ml/d																													
		<i>to</i>	Ml/d																													
		<i>to</i>	Ml/d																													
8a _{FP}	Input as appropriate	Final Planning Raw Water Imported. Total here and specify below	Ml/d	1.50	1.50	1.50	1.50	1.50	1.50	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	
		<i>from Bleach Green (in ESW's Northern/Central zone)</i>	Ml/d	1.50	1.50	1.50	1.50	1.50	1.50	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	
		<i>from</i>	Ml/d																													
		<i>from</i>	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	
		<i>to</i>	Ml/d																													
		<i>to</i>	Ml/d																													
		<i>to</i>	Ml/d																													
12a _{FP}	Input as appropriate	Final Planning Potable 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	
		<i>to</i>	Ml/d																													
		<i>to</i>	Ml/d																													
		<i>to</i>	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	
		<i>from</i>	Ml/d																													
		<i>from</i>	Ml/d																													
		<i>from</i>	Ml/d																													

Company:	Essex & Suffolk Water
Resource Zone Name	Suffolk Hartismere
Resource Zone Number:	3 of 4
Planning Scenario Name:	Dry Year (except where stated otherwise)
Chosen Level of Service:	Company Specified

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	0.00	9.98	10.29	10.80	11.24	11.72	12.27	13.17	13.87	14.61	15.18	15.95	16.64	17.27	17.90	18.66	19.18	19.97	20.54	21.00	21.50	22.10	22.77	23.14	23.69	23.95	24.37	24.86	25.34
6.2 _{BL}	6.6 _{BL} +6.10 _{BL} +6.14 _{BL} +6.18 _{BL} +6.2 _{BL} +6.26 _{BL}	Total	Properties	000's	0.00	5.45	5.60	5.84	6.05	6.27	6.52	6.91	7.22	7.54	7.80	8.13	8.43	8.70	8.99	9.31	9.54	9.87	10.11	10.33	10.54	10.79	11.07	11.23	11.52	11.63	11.80	12.01	12.21
6.3 _{BL}	6.1 _{BL} /6.2 _{BL}	Total	Occupancy	h/prop	#DIV/0!	1.83	1.84	1.85	1.86	1.87	1.88	1.91	1.92	1.94	1.95	1.96	1.97	1.99	2.00	2.01	2.02	2.03	2.03	2.04	2.05	2.06	2.06	2.06	2.06	2.06	2.07	2.08	
6.5 _{BL}	Input	Meter optants	Population	000's	0.00	0.19	0.36	0.53	0.70	0.86	1.02	1.17	1.28	1.40	1.52	1.64	1.74	1.81	1.88	1.96	2.03	2.08	2.10	2.12	2.14	2.16	2.18	2.20	2.22	2.24	2.26	2.27	
6.6 _{BL}	Input	Meter optants	Properties	000's	0.00	0.11	0.22	0.32	0.41	0.51	0.61	0.69	0.76	0.84	0.91	0.98	1.03	1.08	1.12	1.16	1.21	1.24	1.25	1.26	1.27	1.28	1.30	1.31	1.32	1.34	1.35	1.35	
6.7 _{BL}	6.5 _{BL} /6.6 _{BL}	Meter optants	Occupancy	h/prop	#DIV/0!	0.00	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68
6.8 _{BL}	Input	Meter optants	pcc	l/h/d	0.00	130.82	130.24	129.69	129.38	128.90	128.44	128.02	127.61	127.25	126.87	126.57	126.19	125.70	125.39	124.73	124.16	124.05	123.69	123.63	123.51	123.49	123.35	123.10	122.93	122.85	122.83	123.01	
6.9 _{BL}	Input	New properties	Population	000's	0.00	0.22	0.58	0.86	1.17	1.57	2.31	2.88	3.51	3.97	4.62	5.20	5.74	6.30	6.99	7.43	8.16	8.68	9.11	9.60	10.18	10.83	11.17	11.70	11.93	12.33	12.80	13.26	
6.10 _{BL}	Input	New properties	Properties	000's	0.00	0.09	0.24	0.35	0.48	0.64	0.95	1.19	1.45	1.64	1.91	2.15	2.37	2.62	2.91	3.10	3.40	3.62	3.83	4.03	4.28	4.55	4.70	4.98	5.08	5.25	5.45	5.64	
6.11 _{BL}	6.9 _{BL} /6.10 _{BL}	New properties	Occupancy	h/prop	#DIV/0!	0.00	2.45	2.44	2.44	2.43	2.43	2.43	2.42	2.42	2.42	2.42	2.42	2.40	2.40	2.40	2.40	2.40	2.38	2.38	2.38	2.38	2.38	2.35	2.35	2.35	2.35	2.35	
6.12 _{BL}	Input	New properties	pcc	l/h/d	0.00	146.42	146.79	129.62	129.62	129.62	129.62	129.62	129.62	129.62	129.62	129.62	129.62	129.62	129.62	129.62	129.62	129.62	129.62	129.62	129.62	129.62	129.62	129.62	129.62	129.62	129.62	129.62	
6.13 _{BL}	Input	Metering on change of occupancy (Selectives)	Population	000's																													
6.14 _{BL}	Input	Metering on change of occupancy (Selectives)	Properties	000's																													
6.15 _{BL}	6.13 _{BL} /6.14 _{BL}	Metering on change of occupancy (Selectives)	Occupancy	h/prop	#DIV/0!																												
6.16 _{BL}	Input	Metering on change of occupancy (Selectives)	pcc	l/h/d																													
6.17 _{BL}	Input		Population	000's																													
6.18 _{BL}	Input		Properties	000's																													
6.19 _{BL}	6.17 _{BL} /6.18 _{BL}		Occupancy	h/prop																													
6.20 _{BL}	Input		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																													
6.24 _{BL}	Input	Compulsory metering	pcc	l/h/d																													
6.25 _{BL}	Input	Existing metering	Population	000's	9.98	9.88	9.86	9.86	9.85	9.85	9.83	9.83	9.82	9.81	9.81	9.80	9.80	9.79	9.79	9.79	9.78	9.78	9.78	9.78	9.79	9.79	9.78	9.79	9.79	9.79	9.80	9.80	
6.26 _{BL}	Input	Existing metering	Properties	000's	5.45	5.40	5.39	5.38	5.37	5.36	5.35	5.34	5.33	5.32	5.31	5.30	5.30	5.29	5.28	5.27	5.27	5.26	5.26	5.25	5.24	5.24	5.23	5.23	5.22	5.22	5.22	5.21	
6.27 _{BL}	6.25 _{BL} /6.26 _{BL}	Existing metering	Occupancy	h/prop	#DIV/0!	1.83	1.83	1.83	1.83	1.83	1.84	1.84	1.84	1.84	1.85	1.85	1.85	1.85	1.85	1.86	1.86	1.86	1.86	1.86	1.87	1.87	1.87	1.87	1.87	1.88	1.88	1.88	
6.28 _{BL}	Input	Existing metering	pcc	l/h/d	130.27	129.34	128.93	128.50	128.23	127.41	126.61	125.84	125.19	124.54	123.93	123.36	122.78	122.10	121.47	120.67	119.91	119.43	118.89	118.46	118.02	117.62	117.18	116.73	116.30	115.91	115.54	115.32	

Company:	<u>Essex & Suffolk Water</u>
Resource Zone Name:	<u>Suffolk Hartismere</u>
Resource Zone Number:	<u>3 of 4</u>
Planning Scenario Name:	<u>Dry Year (except where stated otherwise)</u>
Chosen Level of Service:	<u>Company Specified</u>

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	0.00	9.98	10.29	10.80	11.24	11.72	12.27	13.17	13.87	14.59	15.15	15.90	16.58	17.20	17.82	18.58	19.09	19.88	20.44	20.89	21.38	21.97	22.63	23.00	23.54	23.79	24.20	24.68	25.15		
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	0.00	5.45	5.60	5.84	6.05	6.27	6.52	6.91	7.22	7.53	7.78	8.10	8.39	8.66	8.95	9.27	9.49	9.82	10.06	10.27	10.48	10.72	11.00	11.15	11.43	11.54	11.71	11.91	12.11		
6.3 _{FP}	6.1 _{FP} /6.2 _{FP}	Total	Occupancy	h/prop	#DIV/0!	1.83	1.84	1.85	1.86	1.87	1.88	1.91	1.92	1.94	1.95	1.96	1.98	1.99	1.99	2.00	2.01	2.02	2.03	2.03	2.04	2.05	2.06	2.06	2.06	2.06	2.07	2.07	2.08		
6.5 _{FP}	Input	Meter optants	Population	000's		0.00	0.19	0.36	0.53	0.70	0.86	1.02	1.16	1.27	1.38	1.49	1.60	1.70	1.77	1.84	1.91	1.99	2.03	2.04	2.06	2.07	2.08	2.09	2.11	2.12	2.14	2.15	2.16		
6.6 _{FP}	Input	Meter optants	Properties	000's		0.00	0.11	0.22	0.32	0.41	0.51	0.61	0.69	0.76	0.82	0.89	0.95	1.01	1.05	1.10	1.14	1.18	1.21	1.22	1.22	1.23	1.24	1.25	1.25	1.26	1.27	1.28	1.28		
6.7 _{FP}	6.5 _{FP} /6.6 _{FP}	Meter optants	Occupancy	h/prop	#DIV/0!	0.00	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68		
6.8 _{FP}	Input	Meter optants	pcc	l/h/d		0.00	130.82	130.24	129.69	129.38	128.90	128.44	128.02	127.63	127.29	126.94	126.67	126.29	125.81	125.46	124.78	124.13	124.10	123.75	123.79	123.65	123.64	123.47	123.23	122.98	122.66	122.69	122.95		
6.9 _{FP}	Input	New properties	Population	000's		0.00	0.22	0.58	0.86	1.17	1.57	2.31	2.88	3.51	3.96	4.61	5.19	5.73	6.29	6.97	7.42	8.14	8.66	9.09	9.58	10.16	10.80	11.15	11.68	11.91	12.31	12.78	13.24		
6.10 _{FP}	Input	New properties	Properties	000's		0.00	0.09	0.24	0.35	0.48	0.64	0.95	1.19	1.45	1.64	1.91	2.14	2.37	2.62	2.91	3.09	3.39	3.61	3.82	4.02	4.27	4.54	4.69	4.97	5.07	5.24	5.44	5.63		
6.11 _{FP}	6.9 _{FP} /6.10 _{FP}	New properties	Occupancy	h/prop	#DIV/0!	0.00	2.45	2.44	2.44	2.43	2.43	2.43	2.42	2.42	2.42	2.42	2.42	2.40	2.40	2.40	2.40	2.40	2.40	2.38	2.38	2.38	2.38	2.38	2.35	2.35	2.35	2.35	2.35		
6.12 _{FP}	Input	New properties	pcc	l/h/d		0.00	146.42	146.79	129.62	129.62	129.62	129.62	129.62	129.62	129.62	129.62	129.62	129.62	129.62	129.62	129.62	129.62	129.62	129.62	129.62	129.62	129.62	129.62	129.62	129.62	129.62	129.62	129.62		
6.13 _{FP}	Input	Metering on change of occupancy (Selectives)	Population	000's																															
6.14 _{FP}	Input	Metering on change of occupancy (Selectives)	Properties	000's																															
6.15 _{FP}	6.13 _{FP} /6.14 _{FP}	Metering on change of occupancy (Selectives)	Occupancy	h/prop	#DIV/0!																														
6.16 _{FP}	Input	Metering on change of occupancy (Selectives)	pcc	l/h/d																															
6.17 _{FP}	Input		Population	000's																															
6.18 _{FP}	Input		Properties	000's																															
6.19 _{FP}	6.17 _{FP} /6.18 _{FP}		Occupancy	h/prop	#DIV/0!																														
6.20 _{FP}	Input		pcc	l/h/d																															
6.21 _{FP}	Input	Compulsory metering	Population	000's																															
6.22 _{FP}	Input	Compulsory metering	Properties	000's																															
6.23 _{FP}	6.21 _{FP} /6.22 _{FP}	Compulsory metering	Occupancy	h/prop	#DIV/0!																														
6.24 _{FP}	Input	Compulsory metering	pcc	l/h/d																															
6.25 _{FP}	Input	Existing metering	Population	000's		9.98	9.88	9.86	9.86	9.85	9.85	9.83	9.83	9.81	9.80	9.79	9.78	9.78	9.77	9.76	9.76	9.75	9.75	9.75	9.75	9.75	9.75	9.75	9.75	9.75	9.75	9.75	9.75	9.76	9.76
6.26 _{FP}	Input	Existing metering	Properties	000's		5.45	5.40	5.39	5.38	5.37	5.36	5.35	5.34	5.33	5.32	5.30	5.29	5.28	5.28	5.27	5.26	5.25	5.24	5.24	5.23	5.22	5.22	5.21	5.21	5.20	5.20	5.19	5.19		
6.27 _{FP}	6.25 _{FP} /6.26 _{FP}	Existing metering	Occupancy	h/prop	#DIV/0!	1.83	1.83	1.83	1.83	1.83	1.84	1.84	1.84	1.84	1.84	1.85	1.85	1.85	1.85	1.85	1.86	1.86	1.86	1.86	1.86	1.87	1.87	1.87	1.87	1.87	1.88	1.88	1.88	1.88	
6.28 _{FP}	Input	Existing metering	pcc	l/h/d		130.27	129.34	128.93	128.50	128.23	127.41	126.61	125.84	125.18	124.52	123.91	123.35	122.76	122.09	121.46	120.66	119.89	119.43	118.89	118.48	118.03	117.63	117.19	116.74	116.29	115.90	115.49	115.30		

Company: Essex & Suffolk Water
Resource Zone Name: Suffolk Hartismere
Resource Zone Number: 3 of 4
Planning Scenario Name: Dry Year (except where stated otherwise)
Chosen Level of Service: Company Specified

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	Toilet Flushing	l/h/d		40.43	40.17	39.93	39.69	39.46	39.23	39.02	38.81	38.61	38.41	38.22	38.04	37.86	37.69	37.53	37.37	37.22	37.07	36.93	36.80	36.66	36.54	36.41	36.30	36.18	36.08	35.97	35.87
7.2	Input	Personal Washing	l/h/d		63.00	62.81	62.85	63.08	63.46	63.65	63.82	64.00	64.14	64.29	64.46	64.64	64.83	64.95	65.08	65.22	65.37	65.53	65.70	65.88	66.07	66.27	66.48	66.71	66.94	67.18	67.44	67.71
7.3	Input	Clothes Washing	l/h/d		13.04	12.22	12.26	12.29	12.36	12.38	12.42	12.46	12.51	12.58	12.62	12.69	12.70	12.68	12.69	12.27	11.86	11.96	11.92	12.02	12.09	12.19	12.22	12.20	12.19	12.23	12.28	12.55
7.4	Input	Dishwashing	l/h/d		11.28	11.08	10.97	10.88	10.82	10.75	10.69	10.64	10.60	10.57	10.53	10.52	10.47	10.41	10.37	10.37	10.41	10.44	10.40	10.45	10.48	10.53	10.54	10.52	10.51	10.54	10.57	10.60
7.5	Input	Outdoor Total Use	l/h/d		9.62	9.35	9.15	8.98	8.85	8.76	8.69	8.63	8.59	8.57	8.54	8.53	8.49	8.44	8.53	8.60	8.71	8.82	8.84	8.97	9.07	9.21	9.30	9.35	9.42	9.53	9.65	9.78
7.6	Input	General Use	l/h/d		15.28	15.28	15.28	15.28	15.28	15.28	15.28	15.28	15.28	15.28	15.28	15.28	15.28	15.28	15.28	15.28	15.28	15.28	15.28	15.28	15.28	15.28	15.28	15.28	15.28	15.28	15.28	15.28
7.7	Input	Dry Year Increase	l/h/d		2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	
7.8	Input		l/h/d																													
7.9	Input		l/h/d																													
7.10	Input		l/h/d																													
7.11	Input		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	154.75	153.02	152.55	152.29	152.32	152.15	152.01	151.92	151.83	151.80	151.75	151.80	151.74	151.56	151.59	151.21	150.95	151.21	151.17	151.50	151.75	152.12	152.34	152.44	152.63	152.93	153.29	153.89
7.20	Input	Toilet Flushing	l/h/d		40.44	40.18	39.92	39.67	39.43	39.20	38.98	38.76	38.55	38.35	38.15	37.96	37.78	37.60	37.43	37.27	37.11	36.95	36.81	36.66	36.53	36.39	36.27	36.14	36.02	35.91	35.80	35.70
7.21	Input	Personal Washing	l/h/d		54.84	54.73	54.83	55.09	55.46	55.47	55.50	55.53	55.66	55.80	55.95	56.11	56.29	56.37	56.46	56.56	56.67	56.78	56.90	57.02	57.15	57.29	57.44	57.59	57.75	57.91	58.08	58.26
7.22	Input	Clothes Washing	l/h/d		9.19	8.83	8.82	8.83	8.87	8.83	8.81	8.80	8.80	8.81	8.81	8.84	8.84	8.82	8.83	8.56	8.32	8.34	8.29	8.33	8.35	8.40	8.37	8.36	8.37	8.39	8.55	
7.23	Input	Dishwashing	l/h/d		9.60	9.53	9.51	9.48	9.46	9.31	9.17	9.03	8.88	8.74	8.59	8.45	8.31	8.16	8.02	7.97	7.93	7.88	7.84	7.79	7.75	7.70	7.66	7.62	7.57	7.53	7.48	7.44
7.24	Input	Outdoor Use	l/h/d		4.17	4.08	4.07	4.05	4.03	4.02	4.00	3.99	3.97	3.92	3.90	3.89	3.87	3.86	3.85	3.84	3.83	3.82	3.81	3.81	3.80	3.79	3.78	3.77	3.76	3.75	3.74	
7.25	Input	General Use	l/h/d		7.38	7.38	7.38	7.38	7.38	7.38	7.38	7.38	7.38	7.38	7.38	7.38	7.38	7.38	7.38	7.38	7.38	7.38	7.38	7.38	7.38	7.38	7.38	7.38	7.38	7.38	7.38	
7.26	Input	Dry Year Increase	l/h/d		0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	
7.27	Input		l/h/d																													
7.28	Input		l/h/d																													
7.29	Input		l/h/d																													
7.30	Input		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)	Existing Measured pcc (excl UR)	l/h/d	0.00	126.47	125.57	125.37	125.35	125.47	125.06	124.68	124.32	124.08	123.84	123.63	123.47	123.30	123.03	122.81	122.42	122.07	122.00	121.87	121.84	121.80	121.80	121.77	121.71	121.69	121.70	121.73	121.91

Company:	Essex & Suffolk Water
Resource Zone Name	Suffolk Hartismere
Resource Zone Number:	3 of 4
Planning Scenario Name:	Dry Year (except where stated otherwise)
Chosen Level of Service:	Company Specified

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	Toilet Flushing	l/h/d		40.43	40.17	39.93	39.69	39.46	39.23	39.02	38.81	38.61	38.41	38.22	38.04	37.86	37.69	37.53	37.37	37.22	37.07	36.93	36.80	36.66	36.54	36.41	36.30	36.18	36.08	35.97	35.87
7.2	Input	Personal Washing	l/h/d		63.00	62.81	62.85	63.08	63.46	63.65	63.82	64.00	64.14	64.29	64.46	64.64	64.83	64.95	65.08	65.22	65.37	65.53	65.70	65.88	66.07	66.27	66.48	66.71	66.94	67.18	67.44	67.71
7.3	Input	Clothes Washing	l/h/d		13.04	12.22	12.26	12.29	12.36	12.38	12.42	12.46	12.54	12.64	12.72	12.81	12.83	12.82	12.80	12.35	11.85	12.02	12.01	12.17	12.23	12.34	12.36	12.32	12.26	12.26	12.21	12.52
7.4	Input	Dishwashing	l/h/d		11.28	11.08	10.97	10.88	10.82	10.75	10.69	10.64	10.60	10.57	10.54	10.52	10.47	10.41	10.36	10.37	10.40	10.44	10.40	10.47	10.48	10.54	10.54	10.53	10.51	10.53	10.53	10.59
7.5	Input	Outdoor Total Use	l/h/d		9.62	9.35	9.15	8.98	8.85	8.76	8.69	8.63	8.58	8.55	8.52	8.51	8.47	8.43	8.52	8.59	8.69	8.82	8.83	8.99	9.08	9.22	9.30	9.36	9.41	9.52	9.60	9.76
7.6	Input	General Use	l/h/d		15.28	15.28	15.28	15.28	15.28	15.28	15.28	15.28	15.28	15.28	15.28	15.28	15.28	15.28	15.28	15.28	15.28	15.28	15.28	15.28	15.28	15.28	15.28	15.28	15.28	15.28	15.28	15.28
7.7	Input	Dry Year Increase	l/h/d		2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	2.10	
7.8	Input		l/h/d																													
7.9	Input		l/h/d																													
7.10	Input		l/h/d																													
7.11	Input		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	154.75	153.02	152.55	152.29	152.32	152.15	152.01	151.92	151.85	151.85	151.83	151.90	151.85	151.69	151.67	151.27	150.91	151.27	151.24	151.69	151.91	152.28	152.48	152.59	152.69	152.94	153.13	153.83
7.20	Input	Toilet Flushing	l/h/d		40.44	40.18	39.92	39.67	39.43	39.20	38.98	38.76	38.55	38.35	38.15	37.96	37.78	37.60	37.43	37.27	37.11	36.95	36.81	36.66	36.53	36.39	36.27	36.14	36.02	35.91	35.80	35.70
7.21	Input	Personal Washing	l/h/d		54.84	54.73	54.83	55.09	55.46	55.47	55.50	55.53	55.66	55.80	55.95	56.11	56.29	56.37	56.46	56.56	56.67	56.78	56.90	57.02	57.15	57.29	57.44	57.59	57.75	57.91	58.08	58.26
7.22	Input	Clothes Washing	l/h/d		9.19	8.83	8.82	8.83	8.87	8.83	8.81	8.80	8.79	8.80	8.80	8.83	8.82	8.81	8.82	8.55	8.31	8.34	8.28	8.35	8.36	8.41	8.40	8.38	8.35	8.36	8.35	8.53
7.23	Input	Dishwashing	l/h/d		9.60	9.53	9.51	9.48	9.46	9.31	9.17	9.03	8.88	8.74	8.59	8.45	8.31	8.16	8.02	7.97	7.93	7.88	7.84	7.79	7.75	7.70	7.66	7.62	7.57	7.53	7.48	7.44
7.24	Input	Outdoor Use	l/h/d		4.17	4.08	4.07	4.05	4.03	4.02	4.00	3.99	3.97	3.92	3.90	3.89	3.87	3.86	3.85	3.84	3.83	3.82	3.81	3.81	3.80	3.79	3.78	3.77	3.76	3.75	3.74	
7.25	Input	General Use	l/h/d		7.38	7.38	7.38	7.38	7.38	7.38	7.38	7.38	7.38	7.38	7.38	7.38	7.38	7.38	7.38	7.38	7.38	7.38	7.38	7.38	7.38	7.38	7.38	7.38	7.38	7.38	7.38	
7.26	Input	Dry Year Increase	l/h/d		0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	
7.27	Input		l/h/d																													
7.28	Input		l/h/d																													
7.29	Input		l/h/d																													
7.30	Input		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)	Existing Measured pcc (excl UR)	l/h/d	0.00	126.47	125.57	125.37	125.35	125.47	125.06	124.68	124.32	124.07	123.82	123.62	123.46	123.28	123.02	122.80	122.41	122.06	122.00	121.86	121.86	121.81	121.81	121.77	121.72	121.68	121.69	121.69	121.89

Company:	Essex & Suffolk Water
Resource Zone Name	Suffolk Hartismere
Resource Zone Number:	3 of 4
Planning Scenario Name:	Dry Year (except where stated otherwise)
Chosen Level of Service:	Company Specified

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	MI/d		1.11	1.12	1.09	1.06	1.04	1.04	1.03	1.02	1.01	1.01	1.01	1.01	1.01	1.02	1.02	1.02	1.03	1.04	1.04	1.06	1.07	1.08	1.09	1.11	1.12	1.13	1.14	
8.2	Input	Extraction of metals, minerals and energy producing materials	B5, B6, B7, B8, B9	MI/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	MI/d		0.34	0.32	0.30	0.29	0.28	0.27	0.27	0.27	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.25	0.25	0.25	0.26	0.26	0.26	0.27	0.27	0.27	0.27	0.28	
8.4	Input	Textile, fur and leather (manufacture)	C13, C14, C15	MI/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	MI/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	
8.6	Input	Paper (manufacture)	C17, C18	MI/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	
8.7	Input	Fuel refining	C19	MI/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	MI/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	
8.9	Input	Manufacture of non-metallic minerals	C23	MI/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	0.01	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	MI/d		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	0.03	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	
8.11	Input	Transportation and manufacture of transport equipment	C30, H49, H50, H51, H52, H53	MI/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	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	
8.12	Input	Electricity, gas and water supplies	D35, E36, E37, E38, E39	MI/d		0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.07	0.07	0.07	0.07	0.08	0.08	0.08	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.10
8.13	Input	Construction	F41, F42, F43	MI/d		0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
8.14	Input	Wholesale and retail	G45, G46, G47	MI/d		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	
8.15	Input	Hotels, bars and restaurants	I55, I56	MI/d		0.04	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.03	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	
8.16	Input	Other services	J, K, L, M, N, O, R, S, T, U	MI/d		0.20	0.19	0.18	0.18	0.17	0.17	0.17	0.16	0.16	0.16	0.16	0.16	0.16	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.16	0.16	0.16	0.16	0.16	0.17	0.17	
8.17	Input	Education and Health	P, Q	MI/d		0.12	0.10	0.09	0.08	0.07	0.07	0.07	0.07	0.06	0.06	0.06	0.06	0.06	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	
8.18	Input			MI/d																													
8.19	Input			MI/d																													
8.20	Input			MI/d																													

Company:	<u>Essex & Suffolk Water</u>
Resource Zone Name	<u>Suffolk Hartismere</u>
Resource Zone Number:	<u>3 of 4</u>
Planning Scenario Name:	<u>Dry Year (except where stated otherwise)</u>
Chosen Level of Service:	<u>Company Specified</u>

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	Mi/d																																	
5 _N	Input	Water Available For Use (own sources)	Mi/d																																	
RAW WATER NORMAL YEAR																																				
6 _N	Input	Raw Water Abstracted	Mi/d																																	
7 _N	Input	Raw Water Exported (existing)	Mi/d																																	
8 _N	Input	Raw Water Imported (existing)	Mi/d																																	
9 _N	Input	Raw Water Losses and Operational Use	Mi/d																																	
10 _N	Input	Non Potable Supplies (existing)	Mi/d																																	
POTABLE WATER TO POINT OF DELIVERY NORMAL YEAR																																				
11 _N	Input	Treatment Works Losses and Operational Use	Mi/d																																	
12 _N	Input	Potable Water Exported	Mi/d																																	
13 _N	Input	Potable Water Imported	Mi/d																																	
14 _N	Input	Distribution Input	Mi/d																																	
15 _N	Input	Distribution Losses	Mi/d																																	
16 _N	Input	Distribution System Operational Use	Mi/d																																	
17 _N	14 _N +15 _N -16 _N	Hartismere and Suffolk Water	Mi/d	0.00																																
POTABLE WATER DELIVERED NORMAL YEAR																																				
32 _N	Input	Water Taken Unbilled	Mi/d		0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
33 _N	Input	Water Delivered Unmeasured Household	Mi/d		2.27	2.16	2.12	2.08	2.04	1.98	1.92	1.86	1.75	1.65	1.55	1.45	1.36	1.28	1.20	1.13	1.06	0.99	0.96	0.92	0.88	0.84	0.81	0.79	0.78	0.75	0.73	0.71	0.71	0.71	0.71	0.71
34 _N	Input	Unmeasured Household - USPL	Mi/d		0.10	0.09	0.09	0.09	0.09	0.08	0.08	0.08	0.08	0.07	0.07	0.07	0.06	0.06	0.06	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	0.04
35 _N	33 _N -34 _N	Unmeasured Household - Consumption	Mi/d	0.00	2.17	2.07	2.03	2.00	1.95	1.90	1.84	1.78	1.68	1.58	1.48	1.38	1.30	1.22	1.15	1.08	1.00	0.94	0.91	0.87	0.84	0.80	0.77	0.75	0.73	0.71	0.69	0.67	0.67	0.67	0.67	0.67
36 _N	Input	Unmeasured Household - PCC	l/h/d		152.65	150.92	150.25	149.61	149.25	148.69	148.16	147.67	147.21	146.83	146.42	146.10	145.66	145.10	144.69	143.91	143.16	143.12	142.71	142.76	142.59	142.58	142.38	142.11	141.82	141.68	141.47	141.78	141.78	141.78	141.78	141.78
37 _N	Input	Water Delivered Measured Household	Mi/d		1.37	1.39	1.45	1.50	1.56	1.63	1.74	1.82	1.96	2.07	2.21	2.33	2.45	2.56	2.69	2.78	2.90	2.99	3.07	3.14	3.22	3.32	3.37	3.44	3.47	3.53	3.58	3.65	3.65	3.65	3.65	3.65
38 _N	Input	Measured Household - USPL	Mi/d		0.07	0.06	0.06	0.07	0.07	0.07	0.07	0.08	0.08	0.08	0.09	0.09	0.10	0.10	0.10	0.11	0.11	0.11	0.12	0.12	0.12	0.12	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.14
39 _N	37 _N -38 _N	Measured Household - Consumption	Mi/d	0.00	1.29	1.33	1.39	1.44	1.50	1.56	1.66	1.75	1.88	1.99	2.12	2.24	2.35	2.46	2.58	2.67	2.79	2.88	2.95	3.02	3.10	3.19	3.24	3.32	3.34	3.39	3.45	3.51	3.51	3.51	3.51	
40 _N	Input	Measured Household - PCC	l/h/d		129.40	128.99	129.18	127.91	127.70	127.05	126.54	126.06	126.03	125.95	125.91	125.86	125.77	125.60	125.48	125.17	124.92	124.89	124.73	124.71	124.62	124.60	124.49	124.39	124.22	124.13	124.02	124.10	124.10	124.10	124.10	124.10
41 _N	Input	Water Delivered Unmeasured Non Household	Mi/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	0.00	0.00	
42 _N	Input	Unmeasured Non Household - USPL	Mi/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	0.00	0.00	
43 _N	41 _N -42 _N	Unmeasured Non Household - Consumption	Mi/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	0.00	0.00	0.00	
44 _N	Input	Water Delivered Measured Non Household	Mi/d		1.96	1.93	1.85	1.80	1.76	1.74	1.72	1.71	1.70	1.69	1.69	1.68	1.68	1.68	1.68	1.69	1.69	1.70	1.71	1.73	1.74	1.77	1.79	1.81	1.82	1.85	1.87	1.89	1.89	1.89	1.89	
45 _N	Input	Measured Non Household - USPL	Mi/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	0.01	0.01	0.01	0.01	
46 _N	44 _N -45 _N	Measured Non Household - Consumption	Mi/d	0.00	1.95	1.92	1.84	1.79	1.75	1.73	1.72	1.70	1.69	1.68	1.68	1.67	1.67	1.67	1.67	1.68	1.68	1.69	1.70	1.72	1.73	1.76	1.78	1.80	1.81	1.84	1.86	1.88	1.88	1.88	1.88	
47 _N	Input	Void Properties - USPL	Mi/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	0.02	0.02	0.02	0.02	0.02		
LEAKAGE NORMAL YEAR																																				
48 _N	Input	Total Leakage	Mi/d		1.29	1.59	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56		
49 _N	Input	Total Leakage	l/pr/d		113.32	138.00	133.98	132.60	131.07	129.23	125.97	123.50	120.93	119.12	116.64	114.52	112.61	110.52	108.24	106.81	104.56	103.01	101.52	100.15	98.55	96.82	95.90	94.19	93.60	92.61	91.48	90.39	90.39	90.39	90.39	
SUPPLY DEMAND BALANCE NORMAL YEAR																																				
50 _N	5 _N +(8 _N +12 _N)-(7 _N +13 _N)	Total Water Available For Use	Mi/d	0.00																																
51 _N	Input	Available Headroom	Mi/d																																	
52 _N	Input	Target Headroom	Mi/d																																	
53 _N	51 _N -52 _N	Supply Demand Balance	Mi/d	0.00																																

Company: Essex & Suffolk Water
Resource Zone Name: Suffolk Hartismere
Resource Zone Number: 3 of 4
Planning Scenario Name: Dry Year (except where stated otherwise)
Chosen Level of Service: Company Specified