

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 Northern/Central
Resource Zone Number: 4 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**

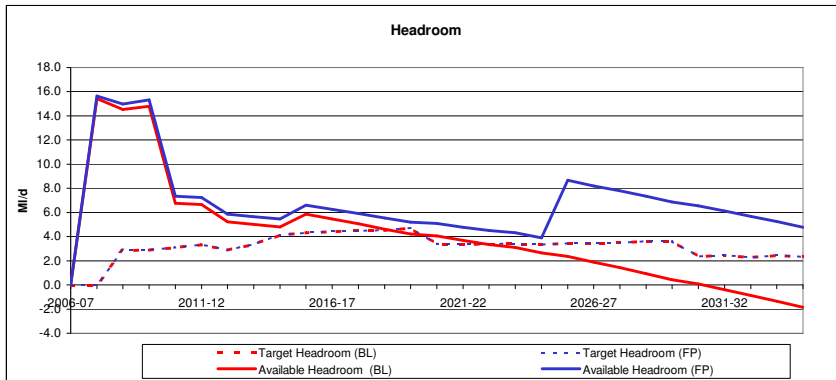
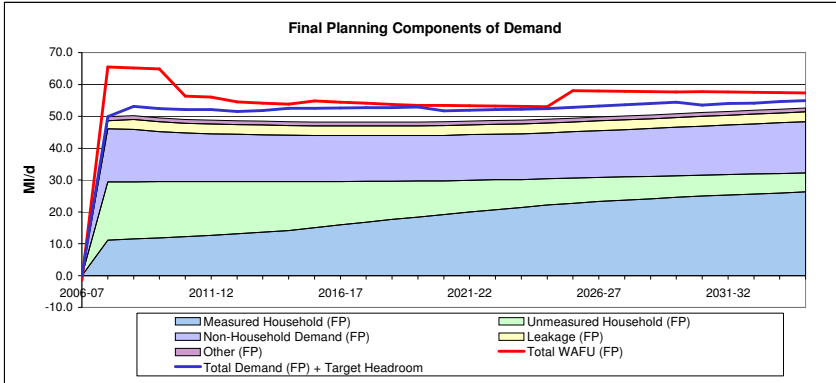
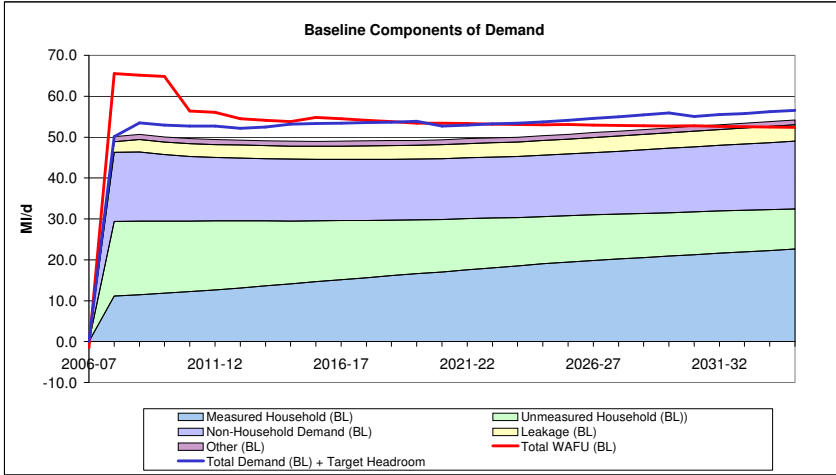
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Summary graphs of WRP tables input data

DERIVATION	DESCRIPTION	UNITS	2006-07	2007-08	2008-09	2009-10	2010-11
SUPPLY							
50BL	Total WAFU (BL)	MI/d	-1.50	65.52	65.17	64.83	56.38
50FP	Total WAFU (FP)	MI/d	-1.50	65.52	65.17	64.83	56.38
DEMAND							
35BL	Unmeasured Household (BL)	MI/d	0.00	18.24	17.94	17.60	17.26
35FP	Unmeasured Household (FP)	MI/d	0.00	18.24	17.94	17.60	17.26
39BL	Measured Household (BL)	MI/d	0.00	11.14	11.48	11.85	12.20
39FP	Measured Household (FP)	MI/d	0.00	11.14	11.48	11.85	12.20
43BL+46BL	Non-Household Demand (BL)	MI/d	0.00	16.94	16.91	16.25	15.81
43FP+46FP	Non-Household Demand (FP)	MI/d	0.00	16.72	16.44	15.75	15.30
48BL	Leakage (BL)	MI/d	0.00	2.53	3.11	3.12	3.13
48FP	Leakage (FP)	MI/d	0.00	2.53	3.11	3.06	3.06
14BL-(35BL+39BL+43BL+46BL+48BL)	Other (BL)	MI/d	0.00	1.23	1.22	1.22	1.22
14FP-(35FP+39FP+43FP+46FP+48FP)	Other (FP)	MI/d	0.00	1.24	1.23	1.23	1.23
	Total Demand (BL) + Target Headroom	MI/d	0.00	50.09	53.52	52.94	52.72
	Total Demand (FP) + Target Headroom and Suffolk	MI/d	0.00	49.88	53.07	52.40	52.13
SUPPLY-DEMAND BALANCE							
52BL	Target Headroom (BL)	1 of 1	0.00	0.00	2.87	2.90	3.10
52FP	Target Headroom (FP)	MI/d	0.00	0.00	2.87	2.90	3.10
Total Supply - Total Demand	Available Headroom (BL)	MI/d	0.00	15.44	14.52	14.78	6.76
Total Supply - Total Demand	Available Headroom (FP)	MI/d	0.00	15.64	14.97	15.33	7.34



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

Table WRP1-BL: Baseline supply-demand components

ROW Ref.	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 BASELINE																															
1 _{BL}	Deployable Output (Specify individual Source Yields on Table WRP5)	MI/d	71.20	70.84	70.48	70.12	69.76	69.40	69.04	68.69	68.33	67.97	67.61	67.25	66.89	66.67	66.57	66.47	66.37	66.27	66.17	66.07	65.97	65.87	65.77	65.67	65.57	65.47	65.37	65.27	
2 _{BL}	Reductions in Deployable Output	MI/d	0.00	0.00	0.00	8.10	8.10	9.30	9.30	9.30	8.10	8.10	8.10	8.10	8.10	8.10	8.10	8.10	8.10	8.10	8.10	8.10	8.10	8.10	8.10	8.10	8.10	8.10	8.10	8.10	
3 _{BL}	Outage Allowance	MI/d	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	
4 _{BL}	Process Losses	MI/d	1.90	1.89	1.88	1.87	1.86	1.85	1.84	1.83	1.64	1.63	1.62	1.61	1.60	1.42	1.42	1.42	1.41	1.41	1.23	1.23	1.23	1.23	1.23	1.05	1.05	1.05	1.04	1.04	
5 _{BL}	Water Available For Use (own sources)	MI/d	67.02	66.67	66.32	57.87	57.52	55.97	55.63	55.28	56.31	55.96	55.61	55.26	54.91	54.87	54.77	54.68	54.58	54.48	54.56	54.46	54.36	54.26	54.16	54.24	54.14	54.04	53.94	53.84	
RAW WATER BASELINE																															
6 _{BL}	Raw Water Abstracted	MI/d	53.93	54.54	53.88	53.42	53.17	53.04	52.90	52.75	52.71	52.77	52.82	52.91	52.96	53.11	53.41	53.66	53.83	54.21	54.59	55.02	55.38	55.81	56.25	56.71	57.11	57.52	57.93	58.38	
7 _{BL}	Raw Water Exported (existing)	MI/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	
8 _{BL}	Raw Water Imported (existing)	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	
9 _{BL}	Raw Water Losses and Operational Use	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	
10 _{BL}	Non Potable Supplies (existing)	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	
POTABLE WATER TO POINT OF DELIVERY BASELINE																															
11 _{BL}	Treatment Works Losses and Operational Use	MI/d	1.90	1.89	1.88	1.87	1.86	1.85	1.84	1.83	1.64	1.63	1.62	1.61	1.60	1.42	1.42	1.42	1.41	1.41	1.23	1.23	1.23	1.23	1.23	1.05	1.05	1.05	1.04	1.04	
12 _{BL}	Potable Water Exported	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	
13 _{BL}	Potable Water Imported	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	
14 _{BL}	Distribution Input	MI/d	50.09	50.66	50.04	49.62	49.39	49.26	49.13	49.00	48.96	49.01	49.06	49.14	49.19	49.33	49.61	49.84	50.00	50.35	50.70	51.10	51.44	51.84	52.25	52.68	53.04	53.43	53.81	54.22	
15 _{BL}	Distribution Losses	MI/d	0.87	1.64	1.65	1.67	1.68	1.68	1.69	1.70	1.73	1.76	1.80	1.83	1.86	1.89	1.92	1.95	1.98	2.01	2.03	2.06	2.09	2.12	2.15	2.18	2.20	2.24	2.26	2.29	
16 _{BL}	Distribution System Operational Use	MI/d	0.39	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	
17 _{BL}	Water Delivered	MI/d	48.82	48.64	48.01	47.57	47.33	47.20	47.06	46.92	46.85	46.87	46.89	46.94	46.95	47.05	47.31	47.51	47.64	47.96	48.28	48.66	48.97	49.33	49.72	50.12	50.46	50.81	51.16	51.55	
POTABLE WATER CUSTOMER USE BASELINE																															
18 _{BL}	Unmeasured Household - Population	000's	117.89	117.22	115.54	113.74	111.61	108.86	105.90	102.82	99.88	97.13	94.52	91.64	89.14	87.08	85.12	83.40	81.33	79.24	78.38	76.94	75.78	74.38	73.36	72.73	71.85	70.77	69.57	68.36	
19 _{BL}	Unmeasured Household - Properties	000's	39.33	38.11	37.18	36.30	35.49	34.67	33.86	33.03	32.31	31.72	31.13	30.54	29.93	29.44	29.07	28.70	28.32	27.94	27.68	27.57	27.46	27.35	27.23	27.12	27.01	26.90	26.79	26.67	
20 _{BL}	Unmeasured Household - Occupancy Rate	h/pr	3.00	3.08	3.11	3.13	3.14	3.14	3.13	3.11	3.09	3.06	3.04	3.00	2.98	2.96	2.93	2.91	2.87	2.84	2.83	2.79	2.76	2.72	2.69	2.68	2.66	2.63	2.60	2.56	
21 _{BL}	Measured Household - Population	000's	85.392	88.510	91.477	94.738	98.209	102.505	106.936	111.174	115.787	120.043	124.246	128.743	132.824	136.537	141.233	145.562	149.743	154.186	157.720	161.233	164.277	167.327	170.473	173.415	176.377	178.952	181.853	184.761	
22 _{BL}	Measured Household - Properties	000's	46.66	48.16	49.67	51.23	52.88	54.85	56.87	58.85	60.93	62.82	64.69	66.68	68.51	70.27	72.29	74.15	75.96	77.87	79.56	81.02	82.29	83.56	84.87	86.45	87.70	88.78	90.00	91.23	
23 _{BL}	Measured Household - Occupancy Rate	h/pr	1.83	1.84	1.84	1.85	1.86	1.87	1.88	1.89	1.90	1.91	1.92	1.93	1.94	1.94	1.95	1.96	1.97	1.98	1.98	1.99	2.00	2.00	2.01	2.01	2.01	2.02	2.02	2.03	
24 _{BL}	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	
25 _{BL}	Unmeasured Non Household - Properties	000's	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	
26 _{BL}	Measured Non Household - Population	000's	3.032	3.032	3.032	3.032	3.032	3.032	3.032	3.032	3.032	3.032	3.032	3.032	3.032	3.032	3.032	3.032	3.032	3.032	3.032	3.032	3.032	3.032	3.032	3.032	3.032	3.032	3.032	3.032	
27 _{BL}	Measured Non Household - Properties	000's	7.749	7.764	7.811	7.859	7.907	7.954	8.002	8.049	8.096	8.144	8.191	8.238	8.285	8.332	8.379	8.426	8.473	8.520	8.567	8.614	8.661	8.707	8.754	8.801	8.847	8.894	8.940	8.987	
28 _{BL}	Total Population	000's	206.318	208.762	210.051	211.515	212.847	214.392	215.872	218.699	220.201	221.794	223.413	224.997	226.650	229.381	231.990	234.105	236.453	239.131	241.203	243.089	244.735	246.868	249.174	251.263	252.755	254.457	256.157		
29 _{BL}	Void Households	000's	3.001	3.595	3.619	3.647	3.682	3.730	3.781	3.829	3.885	3.939	3.993	4.051	4.102	4.154	4.223	4.285	4.345	4.409	4.469	4.525	4.573	4.621	4.671	4.732	4.780	4.820	4.866	4.912	
30 _{BL}	Void Non Households	000's	0.743	0.777	0.782	0.786	0.791	0.796	0.800	0.805	0.810	0.814	0.819	0.824	0.828	0.833	0.838	0.842	0.847	0.852	0.856	0.861	0.866	0.870	0.875	0.879	0.884	0.889	0.893	0.898	
30.1 _{BL}	Total Household Metering penetration (excl. voids)	%	54%	56%	57%	59%	60%	61%	63%	64%	65%	66%	68%	69%	70%	70%	71%	72%	73%	74%	74%	75%	75%	75%	76%	76%	76%	77%	77%		
30.2 _{BL}	Total Household Metering penetration (incl. voids)	%	52%	54%	55%	56%	57%	59%	60%	61%	63%	64%	65%	66%	67%	68%	68%	69%	70%	71%	71%	72%	72%	72%	73%	73%	73%	74%	74%		
31 _{BL}	Total Properties	000's	97.500	98.423	99.073	99.843	100.759	102.016	103.331	104.584	106.052	107.457	108.839	110.348	111.670	113.040	114.807	116.416	117.961	119.609	121.153	122.610	123.862	125.117	126.414	128.003	129.236	130.298	131.503	132.708	
POTABLE WATER DELIVERED BASELINE																															
32 _{BL}	Water Taken Unbilled	MI/d	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	
33 _{BL}	Water Delivered Unmeasured Household	MI/d	19.09	18.72	18.37	18.00	17.62	17.13	16.61	16.08	15.58	15.11	14.67	14.20	13.78	13.41	13.09	12.76	12.40	12.08	11.91	11.70	11.52	11.31	11.15	11.04	10.89	10.73	10.55	10.39	

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	Ml/d	0.00	0.00	0.00	0.00	8.10	8.10	9.30	9.30	9.30	8.10	8.10	8.10	8.10	8.10	8.10	8.10	8.10	8.10	8.10	8.10	8.10	8.10	8.10	8.10	8.10	8.10	8.10	8.10	
		<i>Temporary loss of Southwold Supply due to Agency's Blyth Strategy</i>	Ml/d	0.00	0.00	0.00	0.00	0.00	0.00	1.20	1.20	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		<i>Sustainability Change - Geldeston Meadows</i>	Ml/d	0.00	0.00	0.00	0.00	8.10	8.10	8.10	8.10	8.10	8.10	8.10	8.10	8.10	8.10	8.10	8.10	8.10	8.10	8.10	8.10	8.10	8.10	8.10	8.10	8.10	8.10	8.10	8.10	
			Ml/d																													
			Ml/d																													
			Ml/d																													
7a _{BL}	Input as appropriate	Baseline Raw Water Exported (existing). 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		
		<i>to Bleach Green (supplying ESW's Hartismere Resource 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>to</i>	Ml/d																													
		<i>to</i>	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		
		<i>from</i>	Ml/d																													
		<i>from</i>	Ml/d																													
		<i>from</i>	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		
		<i>to</i>	Ml/d																													
		<i>to</i>	Ml/d																													
		<i>to</i>	Ml/d																													
12a _{BL}	Input as appropriate	Baseline 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		
		<i>to</i>	Ml/d																													
		<i>to</i>	Ml/d																													
		<i>to</i>	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		
		<i>from</i>	Ml/d																													
		<i>from</i>	Ml/d																													
		<i>from</i>	Ml/d																													

Company:	Essex & Suffolk Water
Resource Zone Name:	Suffolk Northern/Central
Resource Zone Number:	4 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.... (Note - water efficiency projects included in baseline)											
55	Input as appropriate	Distribution Side Management, Specify Below.... <i>Leakage Reduction Bands Below ELL:</i> Current Target - 4 % to Current Target - 6% Current Target - 2 % to Current Target - 4% Current Target to Current Target - 2%											
			D1	0.17	2010	832.44	0.00	693.42		693.42	83.30	83.30	
			D1	0.17	2010	832.44	0.00	549.41		549.41	66.00	66.00	
			D1	0.17	2010	832.44	0.00	428.71		428.71	51.50	51.50	
56	Input as appropriate	Production Side Management, Specify Below.... Washwater Recycling											
			P1	0.13	2015	502.44	148.28	530.95		6.07	685.30	134.98	136.19
57	Input as appropriate	Resource Management, Specify Below.... North Lowestoft Groundwater Scheme											
			R1	5.00	2014	20267.50	3022.86	5423.59		109.36	8555.81	41.65	42.19

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

Table WRP3: Preferred list of water management options

		PLANNED GAINS IN WAFU OR SAVINGS IN DEMAND (M/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 <i>[Insert / delete non-numbered lines to suit]</i>	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....																														
59	Input as appropriate	Distribution Side Management, Specify Below....																														
60	Input as appropriate	Production Side Management, Specify Below....																														
61	Input as appropriate	Resource Management, Specify Below....																														
		North Lowestoft Groundwater Scheme	R1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
SUMMARY of WAFU GAINS																																
62	Sum of 58	Total customer 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		
63	Sum of 59	Total distribution 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		
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		
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		

Company: Essex & Suffolk Water

Resource Zone Name: Suffolk Northern/Central

Resource Zone Number: 4 of 4

Planning Scenario Name: Dry Year (except where stated otherwise)

Chosen Level of Service: Company Specified

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	71.20	70.84	70.48	70.12	69.76	69.40	69.04	68.69	68.33	67.97	67.61	67.25	66.89	66.67	66.57	66.47	66.37	66.27	71.17	71.07	70.97	70.87	70.77	70.67	70.57	70.47	70.37	70.27		
2 _{FP}	WRP4a-FP 2a _{FP}	Reductions in Deployable Output	M/d	0.00	0.00	0.00	8.10	8.10	9.30	9.30	9.30	8.10	8.10	8.10	8.10	8.10	8.10	8.10	8.10	8.10	8.10	8.10	8.10	8.10	8.10	8.10	8.10	8.10	8.10	8.10	8.10		
3 _{FP}	Input	Outage Allowance	M/d	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28		
4 _{FP}	9 _{FP} +11 _{FP}	Process Losses	M/d	1.90	1.89	1.88	1.87	1.86	1.85	1.84	1.83	1.64	1.63	1.62	1.61	1.60	1.42	1.42	1.42	1.41	1.41	1.41	1.23	1.23	1.23	1.23	1.05	1.05	1.05	1.04	1.04		
5 _{FP}	1 _{FP} (2 _{FP} +3 _{FP} +4 _{FP})	Water Available For Use (own sources)	M/d	67.02	66.67	66.32	65.87	65.52	65.17	64.82	64.47	64.12	63.77	63.42	63.07	62.72	62.37	62.02	61.67	61.32	60.97	60.62	60.27	60.00	59.65	59.30	58.95	58.60	58.25	57.90	57.55		
RAW WATER FINAL PLANNING																																	
6 _{FP}	Input	Raw Water Abstracted	M/d	53.70	54.05	53.29	52.80	52.52	52.36	52.20	52.04	51.92	51.91	51.90	51.93	51.91	52.00	52.23	52.42	52.52	52.85	53.18	53.59	53.91	54.30	54.70	55.12	55.47	55.85	56.21	56.63		
7 _{FP}	WRP4a-FP 7a _{FP}	Raw Water Exported	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	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48		
8 _{FP}	WRP4a-FP 8a _{FP}	Raw 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			
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	0.00		
POTABLE WATER TO POINT OF DELIVERY FINAL PLANNING																																	
11 _{FP}	Input	Treatment Works Losses and Operational Use	M/d	1.90	1.89	1.88	1.87	1.86	1.85	1.84	1.83	1.64	1.63	1.62	1.61	1.60	1.42	1.42	1.42	1.41	1.41	1.23	1.23	1.23	1.23	1.23	1.05	1.05	1.05	1.04	1.04		
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	0.00		
14 _{FP}	Input	Distribution Input	M/d	49.88	50.20	49.49	49.04	48.78	48.63	48.48	48.33	48.23	48.21	48.21	48.23	48.22	48.29	48.51	48.69	48.78	49.09	49.40	49.77	50.07	50.43	50.80	51.20	51.52	51.87	52.20	52.60		
15 _{FP}	Input	Distribution Losses	M/d	0.87	1.64	1.59	1.59	1.58	1.58	1.57	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.57	1.57	1.56	1.55	1.54	1.54	1.53	1.52	1.51	1.50	1.49	1.48	
16 _{FP}	Input	Distribution System Operational Use	M/d	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39		
17 _{FP}	14 _{FP} +15 _{FP} +16 _{FP}	Water Delivered	M/d	48.61	48.18	47.52	47.06	46.80	46.66	46.52	46.37	46.26	46.25	46.24	46.26	46.25	46.33	46.55	46.73	46.82	47.14	47.45	47.84	48.14	48.51	48.89	49.29	49.63	49.99	50.33	50.73		
POTABLE WATER CUSTOMER USE FINAL PLANNING																																	
18 _{FP}	Input	Unmeasured Household - Population	000's	117.89	117.22	115.54	113.74	111.61	108.86	105.90	102.81	97.03	91.58	86.39	81.11	76.31	71.99	67.97	64.25	60.47	56.72	54.58	52.36	50.63	48.68	47.05	45.85	44.88	43.72	42.67	41.29		
19 _{FP}	Input	Unmeasured Household - Properties	000's	39.33	38.11	37.18	36.30	35.49	34.67	33.86	33.03	31.35	29.85	28.39	26.97	25.57	24.30	23.17	22.08	21.03	19.99	19.25	18.81	18.36	17.92	17.48	17.12	16.86	16.60	16.35	16.08		
20 _{FP}	18 _{FP} /19 _{FP}	Unmeasured Household - Occupancy Rate	h/pr	3.00	3.08	3.11	3.13	3.14	3.14	3.13	3.11	3.10	3.07	3.04	3.01	2.98	2.96	2.93	2.91	2.88	2.84	2.78	2.76	2.72	2.69	2.68	2.66	2.63	2.61	2.57			
21 _{FP}	WRP6a-6.1 _{FP}	Measured Household - Population	000's	85.392	88.510	91.477	94.738	98.209	102.505	106.936	111.178	115.690	119.815	123.893	128.271	132.232	135.861	140.512	144.800	148.942	153.355	156.838	160.272	163.236	166.206	169.273	172.148	175.044	177.551	180.386	183.224		
22 _{FP}	WRP6a-6.2 _{FP}	Measured Household - Properties	000's	46.662	48.162	49.667	51.233	52.877	54.848	56.875	58.857	60.878	62.697	64.497	66.421	68.178	69.893	71.887	73.732	75.517	77.421	79.082	80.497	81.716	82.938	84.200	85.748	86.955	87.998	89.179	90.364		
23 _{FP}	21 _{FP} /22 _{FP}	Measured Household - Occupancy Rate	h/pr	1.83	1.84	1.84	1.85	1.86	1.87	1.88	1.89	1.91	1.92	1.93	1.94	1.95	1.96	1.97	1.98	1.98	1.99	2.00	2.00	2.01	2.01	2.01	2.01	2.01	2.02	2.02			
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		
25 _{FP}	Input	Unmeasured Non Household - Properties	000's	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015		
26 _{FP}	Input	Measured Non Household - Population	000's	3.032	3.032	3.032	3.032	3.032	3.032	3.032	3.032	3.032	3.032	3.032	3.032	3.032	3.032	3.032	3.032	3.032	3.032	3.032	3.032	3.032	3.032	3.032	3.032	3.032	3.032	3.032	3.032		
27 _{FP}	Input	Measured Non Household - Properties	000's	7.749	7.764	7.811	7.859	7.907	7.954	8.002	8.049	8.096	8.144	8.191	8.238	8.285	8.332	8.379	8.426	8.473	8.520	8.567	8.614	8.661	8.707	8.754	8.801	8.847	8.894	8.940	8.987		
28 _{FP}	18 _{FP} +21 _{FP} +24 _{FP} +26 _{FP}	Total Population	000's	206.318	208.762	210.051	211.515	212.847	214.392	215.872	217.022	215.756	214.431	213.313	212.413	211.577	210.886	211.511	212.086	212.445	213.104	214.451	215.664	216.898	217.922	219.359	221.032	222.959	224.297	226.085	227.545		
29 _{FP}	Input	Void Households	000's	3.001	3.595	3.619	3.647	3.682	3.730	3.781	3.829	3.885	3.939	3.993	4.051	4.102	4.154	4.223	4.285	4.345	4.409	4.469	4.525	4.573	4.621	4.671	4.732	4.779	4.820	4.866	4.912		
30 _{FP}	Input	Void Non Households	000's	0.743	0.777	0.782	0.786	0.791	0.796	0.800	0.805	0.810	0.814	0.819	0.824	0.828	0.833	0.838	0.842	0.847	0.852	0.856	0.861	0.866	0.870	0.875	0.879	0.884	0.889	0.893	0.898		
30.1 _{FP}	22 _{FP} /(22 _{FP} +19 _{FP})	Total Household Metering penetration (excl. voids)	%	54%	56%	57%	59%	60%	61%	63%	64%	66%	68%	69%	71%	73%	74%	76%	77%	78%	79%	80%	81%	82%	82%	83%	83%	84%	84%	85%	85%		
30.2 _{FP}	22 _{FP} /(22 _{FP} +19 _{FP} +29 _{FP})	Total Household Metering penetration (incl. voids)	%	52%	54%	55%	56%	57%	59%	60%	61%	63%	65%	67%	68%	70%	71%	72%	74%	75%	76%	77%	78%	79%	80%	80%	80%	81%	81%	81%			
31 _{FP}	21 _{FP} +22 _{FP} +25 _{FP} +27 _{FP} +29 _{FP} +30 _{FP}	Total Properties	000's	97.500	98.423	99.073	99.843	100.759	102.016	103.331	104.584	105.034	105.461	105.905	106.515	106.977	107.528	108.514	109.382	110.224	111.209	112.242	113.320	114.195	115.072	115.991	117.299	118.345	119.220	120.239	121.257		
POTABLE WATER DELIVERED FINAL PLANNING																																	
32 _{FP}	Input	Water Taken Unbilled	M/d	0.93	0																												

Table WRP4a - FP: Final Planning Supporting transfer and DO reductions data

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	8.10	8.10	9.30	9.30	9.30	8.10	8.10	8.10	8.10	8.10	8.10	8.10	8.10	8.10	8.10	8.10	8.10	8.10	8.10	8.10	8.10	8.10	8.10	8.10	8.10
		<i>Temporary loss of Southwold Supply due to Agency's Blyth Strategy</i>	Ml/d	0.00	0.00	0.00	0.00	0.00	0.00	1.20	1.20	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		<i>Sustainability Change - Geldeston Meadows</i>	Ml/d	0.00	0.00	0.00	0.00	8.10	8.10	8.10	8.10	8.10	8.10	8.10	8.10	8.10	8.10	8.10	8.10	8.10	8.10	8.10	8.10	8.10	8.10	8.10	8.10	8.10	8.10	8.10	8.10	8.10
			Ml/d																													
			Ml/d																													
7a _{FP}	Input as appropriate	Final Planning Raw Water Exported. 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>to Bleach Green (supplying ESW's Hartismere Resource 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	1.48
		<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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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																													
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:	<u>Essex & Suffolk Water</u>
Resource Zone Name	<u>Suffolk Northern/Central</u>
Resource Zone Number:	<u>4 of 4</u>
Planning Scenario Name:	<u>Dry Year (except where stated otherwise)</u>
Chosen Level of Service:	<u>Company Specified</u>

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	85.39	88.51	91.48	94.74	98.21	102.51	106.94	111.17	115.79	120.04	124.25	128.74	132.82	136.54	141.23	145.56	149.74	154.19	157.72	161.23	164.28	167.33	170.47	173.42	176.38	178.95	181.85	184.76		
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	0.00	46.66	48.16	49.67	51.23	52.88	54.85	56.87	58.85	60.93	62.82	64.69	66.68	68.51	70.27	72.29	74.15	75.96	77.87	79.56	81.02	82.29	83.56	84.87	86.45	87.70	88.78	90.00	91.23		
6.3 _{BL}	6.1 _{BL} /6.2 _{BL}	Total	Occupancy	h/prop	#DIV/0!	1.83	1.84	1.84	1.85	1.86	1.87	1.88	1.89	1.90	1.91	1.92	1.93	1.94	1.94	1.95	1.96	1.97	1.98	1.98	1.99	2.00	2.00	2.01	2.01	2.01	2.02	2.02	2.03		
6.5 _{BL}	Input	Meter optants	Population	000's	0.00	1.86	3.49	5.01	6.43	7.84	9.25	10.68	11.91	12.93	13.95	14.97	16.00	16.85	17.48	18.10	18.73	19.39	19.81	19.99	20.17	20.36	20.54	20.71	20.90	21.08	21.26	21.45			
6.6 _{BL}	Input	Meter optants	Properties	000's	0.00	1.11	2.08	2.98	3.83	4.67	5.50	6.36	7.09	7.70	8.30	8.91	9.53	10.03	10.40	10.78	11.15	11.54	11.79	11.90	12.01	12.12	12.22	12.33	12.44	12.55	12.66	12.77			
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	2.13	3.59	5.35	7.43	10.36	13.42	16.27	19.68	22.94	26.15	29.65	32.71	35.58	39.67	43.38	46.94	50.74	53.84	57.16	60.00	62.85	65.79	68.54	71.30	73.65	76.35	79.03			
6.10 _{BL}	Input	New properties	Properties	000's	0.00	0.87	1.47	2.19	3.06	4.26	5.52	6.72	8.13	9.48	10.81	12.25	13.52	14.83	16.53	18.08	19.56	21.14	22.62	24.02	25.21	26.41	27.64	29.17	30.34	31.34	32.49	33.63			
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	2.42	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 _{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																															
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	85.39	84.51	84.40	84.38	84.35	84.31	84.27	84.23	84.19	84.17	84.15	84.12	84.11	84.10	84.08	84.07	84.07	84.06	84.07	84.08	84.10	84.13	84.15	84.16	84.19	84.22	84.25	84.27			
6.26 _{BL}	Input	Existing metering	Properties	000's	46.66	46.18	46.12	46.06	45.99	45.92	45.85	45.78	45.71	45.64	45.58	45.52	45.47	45.41	45.35	45.30	45.25	45.19	45.15	45.11	45.07	45.04	45.00	44.96	44.92	44.89	44.86	44.83			
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	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 Northern/Central</u>
Resource Zone Number:	<u>4 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	85.39	88.51	91.48	94.74	98.21	102.51	106.94	111.18	115.69	119.82	123.89	128.27	132.23	135.86	140.51	144.80	148.94	153.35	156.84	160.27	163.24	166.21	169.27	172.15	175.04	177.55	180.39	183.22
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	46.66	48.16	49.67	51.23	52.88	54.85	56.87	58.86	60.88	62.70	64.50	66.42	68.18	69.89	71.89	73.73	75.52	77.42	79.08	80.50	81.72	82.94	84.20	85.75	86.96	88.00	89.18	90.36
6.3 _{FP}	6.1 _{FP} /6.2 _{FP}	Total	Occupancy	h/prop	#DIV/0!	1.83	1.84	1.84	1.85	1.86	1.87	1.88	1.89	1.90	1.91	1.92	1.93	1.94	1.94	1.95	1.96	1.97	1.98	1.98	1.99	2.00	2.00	2.01	2.01	2.01	2.02	2.02	2.03
6.5 _{FP}	Input	Meter optants	Population	000's		0.00	1.86	3.49	5.01	6.43	7.84	9.25	10.68	11.88	12.83	13.77	14.72	15.69	16.49	17.11	17.73	18.36	19.01	19.41	19.52	19.64	19.75	19.87	19.98	20.10	20.22	20.33	20.46
6.6 _{FP}	Input	Meter optants	Properties	000's		0.00	1.11	2.08	2.98	3.83	4.67	5.50	6.36	7.07	7.64	8.20	8.76	9.34	9.82	10.18	10.56	10.93	11.32	11.55	11.62	11.69	11.76	11.83	11.89	11.96	12.03	12.10	12.18
6.7 _{FP}	6.5 _{FP} /6.6 _{FP}	Meter optants	Occupancy	h/prop		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	122.69	122.95	
6.9 _{FP}	Input	New properties	Population	000's		0.00	2.13	3.59	5.35	7.43	10.36	13.42	16.27	19.67	22.92	26.11	29.60	32.64	35.51	39.58	43.28	46.83	50.61	53.71	57.02	59.86	62.70	65.64	68.39	71.14	73.50	76.19	78.88
6.10 _{FP}	Input	New properties	Properties	000's		0.00	0.87	1.47	2.19	3.06	4.26	5.52	6.72	8.13	9.47	10.79	12.23	13.49	14.80	16.49	18.03	19.51	21.09	22.57	23.96	25.15	26.34	27.58	29.10	30.27	31.28	32.42	33.57
6.11 _{FP}	6.9 _{FP} /6.10 _{FP}	New properties	Occupancy	h/prop		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 _{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	
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																													
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																													
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																													
6.24 _{FP}	Input	Compulsory metering	pcc	l/h/d																													
6.25 _{FP}	Input	Existing metering	Population	000's		85.39	84.51	84.40	84.38	84.35	84.31	84.27	84.23	84.14	84.07	84.01	83.95	83.90	83.86	83.82	83.78	83.76	83.73	83.72	83.73	83.74	83.76	83.77	83.78	83.80	83.83	83.86	83.88
6.26 _{FP}	Input	Existing metering	Properties	000's		46.66	46.18	46.12	46.06	45.99	45.92	45.85	45.78	45.68	45.59	45.51	45.43	45.35	45.28	45.21	45.14	45.08	45.02	44.96	44.92	44.88	44.84	44.80	44.75	44.72	44.69	44.65	44.62
6.27 _{FP}	6.25 _{FP} /6.26 _{FP}	Existing metering	Occupancy	h/prop		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	1.88	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:	<u>Essex & Suffolk Water</u>
Resource Zone Name	<u>Suffolk Northern/Central</u>
Resource Zone Number:	<u>4 of 4</u>
Planning Scenario Name:	<u>Dry Year (except where stated otherwise)</u>
Chosen Level of Service:	<u>Company Specified</u>

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	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	7.38	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	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 Northern/Central
Resource Zone Number:	4 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	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	7.38		
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	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 Northern/Central
Resource Zone Number:	4 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		1.34	1.31	1.25	1.22	1.19	1.18	1.18	1.17	1.16	1.16	1.16	1.16	1.16	1.16	1.16	1.17	1.17	1.17	1.18	1.19	1.20	1.22	1.23	1.24	1.25	1.27	1.28
8.2	Input	Extraction of metals, minerals and energy producing materials	B5, B6, B7, B8, B9	MI/d		0.04	0.04	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	0.02	0.02
8.3	Input	Food and drink (manufacture)	C10, C11, C12	MI/d		3.79	3.76	3.56	3.41	3.28	3.18	3.08	2.99	2.90	2.83	2.75	2.68	2.60	2.54	2.47	2.41	2.35	2.29	2.24	2.26	2.28	2.31	2.34	2.36	2.38	2.41	2.44
8.4	Input	Textile, fur and leather (manufacture)	C13, C14, C15	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
8.5	Input	Other manufacturing	C16, C26, C27, C31, C32, C33	MI/d		0.18	0.21	0.22	0.22	0.23	0.23	0.24	0.24	0.24	0.25	0.25	0.26	0.26	0.27	0.28	0.28	0.29	0.30	0.30	0.31	0.31	0.31	0.32	0.32	0.32	0.33	0.33
8.6	Input	Paper (manufacture)	C17, C18	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	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
8.7	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		0.23	0.23	0.22	0.22	0.22	0.22	0.22	0.23	0.23	0.24	0.24	0.24	0.25	0.26	0.26	0.27	0.27	0.28	0.29	0.29	0.29	0.30	0.30	0.30	0.31	0.31	0.31
8.9	Input	Manufacture of non-metallic minerals	C23	MI/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
8.10	Input	Manufacture of basic metals, fabricated metal products and	C24, C25, C28, C29	MI/d		0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
8.11	Input	Transportation and manufacture of transport equipment	C30, H49, H50, H51, H52, H53	MI/d		0.55	0.54	0.51	0.50	0.49	0.48	0.48	0.48	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.48	0.48	0.49	0.49	0.50	0.50	0.51
8.12	Input	Electricity, gas and water supplies	D35, E36, E37, E38, E39	MI/d		0.85	0.74	0.68	0.65	0.63	0.63	0.63	0.64	0.64	0.65	0.66	0.66	0.67	0.68	0.69	0.70	0.70	0.71	0.72	0.73	0.74	0.75	0.76	0.76	0.77	0.78	0.79
8.13	Input	Construction	F41, F42, F43	MI/d		0.29	0.30	0.30	0.30	0.30	0.31	0.31	0.31	0.31	0.32	0.32	0.32	0.33	0.33	0.33	0.34	0.34	0.34	0.35	0.35	0.36	0.36	0.36	0.37	0.37	0.38	0.38
8.14	Input	Wholesale and retail	G45, G46, G47	MI/d		0.83	0.83	0.79	0.76	0.74	0.72	0.71	0.69	0.68	0.67	0.66	0.65	0.64	0.63	0.62	0.61	0.60	0.59	0.58	0.59	0.60	0.60	0.61	0.62	0.62	0.63	0.64
8.15	Input	Hotels, bars and restaurants	I55, I56	MI/d		3.39	3.46	3.39	3.37	3.37	3.41	3.45	3.49	3.53	3.60	3.66	3.72	3.79	3.87	3.95	4.03	4.11	4.21	4.31	4.35	4.39	4.45	4.49	4.54	4.58	4.64	4.69
8.16	Input	Other services	J, K, L, M, N, O, R, S, T, U	MI/d		3.51	3.53	3.39	3.29	3.22	3.18	3.13	3.10	3.06	3.04	3.01	2.99	2.97	2.96	2.94	2.94	2.92	2.93	2.92	2.95	2.98	3.02	3.05	3.08	3.11	3.15	3.18
8.17	Input	Education and Health	P, Q	MI/d		1.89	1.90	1.82	1.77	1.74	1.72	1.70	1.68	1.67	1.66	1.65	1.65	1.64	1.64	1.63	1.63	1.63	1.64	1.64	1.66	1.67	1.70	1.71	1.73	1.75	1.77	1.79
8.18	Input			MI/d																												
8.19	Input			MI/d																												
8.20	Input			MI/d																												

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

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	Northern and Suffolk Water	MI/d	0.00																														
POTABLE WATER DELIVERED NORMAL YEAR																																		
32 _N	Input	Water Taken Unbilled	MI/d		0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	
33 _N	Input	Water Delivered Unmeasured Household	MI/d		18.84	18.48	18.13	17.77	17.39	16.90	16.39	15.86	14.93	14.06	13.23	12.41	11.64	10.95	10.31	9.70	9.09	8.53	8.19	7.86	7.60	7.31	7.06	6.87	6.71	6.54	6.37	6.19		
34 _N	Input	Unmeasured Household - USPL	MI/d		0.85	0.79	0.77	0.75	0.73	0.71	0.70	0.68	0.65	0.62	0.59	0.56	0.53	0.50	0.48	0.46	0.43	0.41	0.40	0.39	0.38	0.37	0.36	0.35	0.35	0.34	0.34	0.33		
35 _N	33 _N -34 _N	Unmeasured Household - Consumption	MI/d	0.00	18.00	17.69	17.36	17.02	16.66	16.19	15.69	15.18	14.28	13.45	12.65	11.85	11.12	10.45	9.83	9.25	8.66	8.12	7.79	7.48	7.22	6.94	6.70	6.52	6.37	6.19	6.04	5.85		
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		
37 _N	Input	Water Delivered Measured Household	MI/d		11.72	11.93	12.32	12.67	13.11	13.61	14.13	14.63	15.59	16.48	17.34	18.23	19.04	19.78	20.62	21.38	22.09	22.86	23.45	23.99	24.43	24.88	25.33	25.76	26.11	26.42	26.75	27.15		
38 _N	Input	Measured Household - USPL	MI/d		0.64	0.52	0.54	0.56	0.57	0.59	0.61	0.63	0.66	0.69	0.72	0.74	0.77	0.79	0.82	0.85	0.87	0.89	0.91	0.93	0.95	0.96	0.98	0.99	1.01	1.02	1.03	1.04		
39 _N	37 _N -38 _N	Measured Household - Consumption	MI/d	0.00	11.08	11.41	11.78	12.12	12.54	13.02	13.52	13.99	14.92	15.79	16.63	17.48	18.27	18.98	19.80	20.54	21.22	21.97	22.53	23.06	23.48	23.92	24.36	24.76	25.10	25.41	25.72	26.11		
40 _N	Input	Measured Household - PCC	l/h/d		129.40	129.04	128.94	127.89	127.68	127.01	126.41	125.86	125.80	125.71	125.62	125.55	125.42	125.21	125.05	124.72	124.38	124.36	124.18	124.14	124.01	123.94	123.82	123.68	123.51	123.39	123.24	123.32		
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		
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		
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		
44 _N	Input	Water Delivered Measured Non Household	MI/d		16.81	16.51	15.82	15.36	15.05	14.90	14.75	14.63	14.50	14.47	14.43	14.40	14.34	14.38	14.40	14.43	14.44	14.53	14.61	14.78	14.90	15.12	15.29	15.46	15.60	15.82	16.00	16.18		
45 _N	Input	Measured Non Household - USPL	MI/d		0.10	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	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08		
46 _N	44 _N -45 _N	Measured Non Household - Consumption	MI/d	0.00	16.71	16.44	15.74	15.29	14.97	14.82	14.67	14.56	14.43	14.40	14.35	14.32	14.27	14.30	14.32	14.35	14.36	14.46	14.53	14.70	14.82	15.04	15.21	15.38	15.51	15.74	15.92	16.10		
47 _N	Input	Void Properties - USPL	MI/d		0.08	0.09	0.09	0.09	0.09	0.09	0.09	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.12	0.12	0.12	0.12	0.12		
LEAKAGE NORMAL YEAR																																		
48 _N	Input	Total Leakage	MI/d		2.53	3.11	3.06	3.06	3.06	3.06	3.06	3.06	3.06	3.06	3.06	3.06	3.06	3.06	3.06	3.06	3.06	3.06	3.06	3.06	3.06	3.06	3.06	3.06	3.06	3.06	3.06	3.06		
49 _N	Input	Total Leakage	l/pr/d		25.98	31.61	30.89	30.65	30.37	30.00	29.61	29.26	28.85	28.48	28.11	27.73	27.40	27.07	26.65	26.29	25.94	25.58	25.26	24.96	24.70	24.46	24.21	23.91	23.68	23.48	23.27	23.06		
SUPPLY DEMAND BALANCE NORMAL YEAR																																		
50 _N	5 _N +(6 _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	0.00																														
53 _N	51 _N -52 _N	Supply Demand Balance	MI/d	0.00																														

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