

# Water Resources Planning Guideline supply-demand workbook - Version 2.8

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

The Guideline and tables are available on the Environment Agency website at [www.environment-agency.gov.uk/business/sectors/39687.aspx](http://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](mailto: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: Yorkshire Water  
Resource Zone Name: East SWZ  
Resource Zone Number: 2 of 3  
Planning Scenario Name: Critical period  
Chosen Level of Service: 1 in 25

Responsible Officer: Clare Dunlop

Signed: \_\_\_\_\_

Dated: \_\_\_\_\_

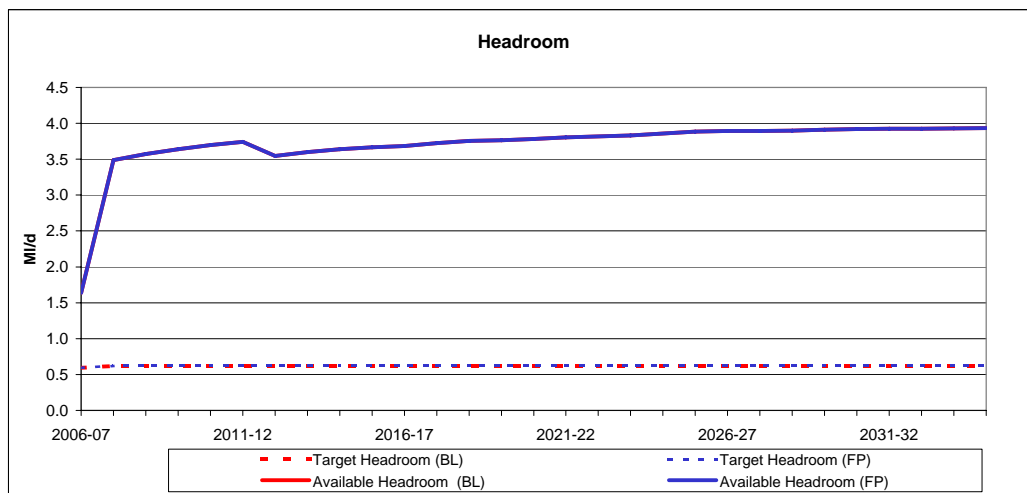
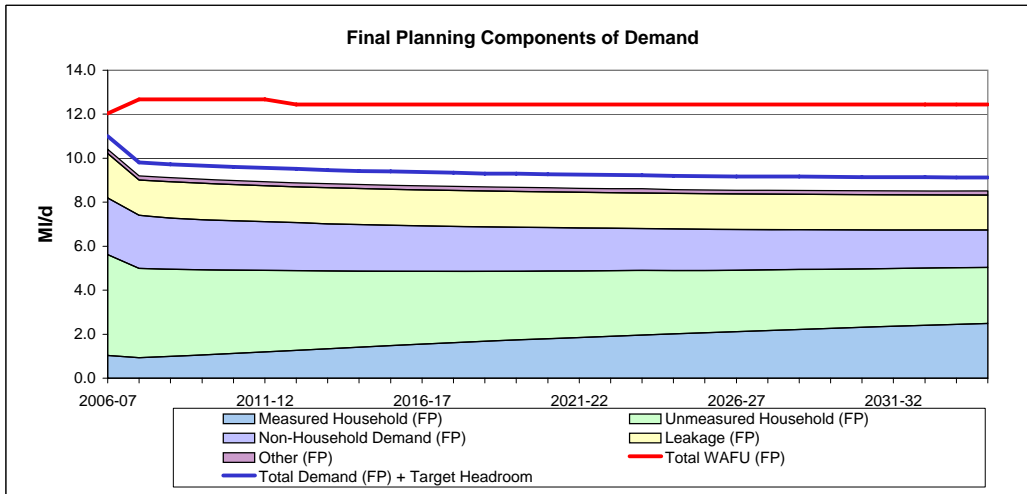
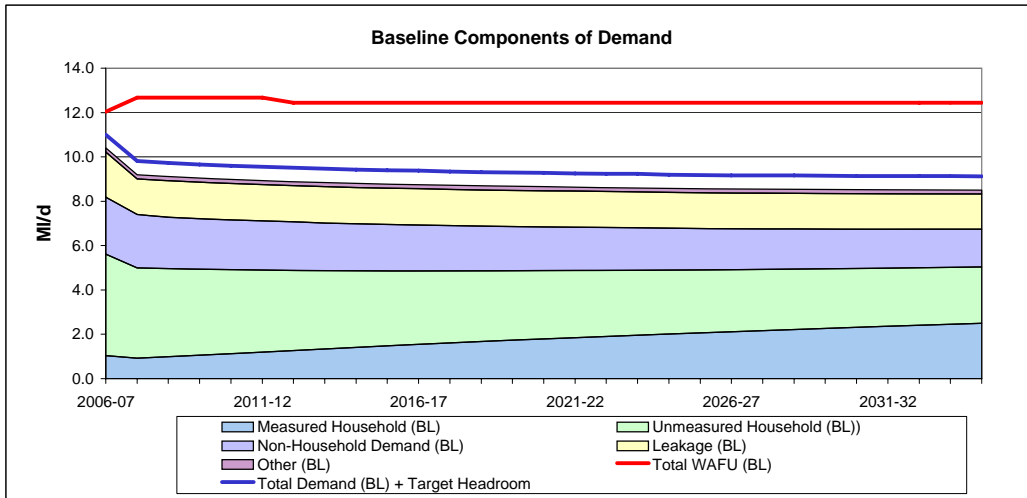
Version: **Final\***

\* delete as appropriate

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Summary graphs of WRP tables input data



Company:	Yorkshire Water
Resource Zone Name	East SWZ
Resource Zone Number:	2 of 3
Planning Scenario Name:	Critical period
Chosen Level of Service:	1 in 25

Table WRP1-BL: Baseline supply-demand components

ROW Ref.	DERIVATION	DESCRIPTION	UNITS	Scenario Year 2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	2032-33	2033-34	2034-35	
<b>BASIC RESOURCES BASELINE</b>																																	
1 <sub>BL</sub>	Input	Deployable Output (Specify individual Source Yields on Table WRP5)	M/d	13.02	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00
2 <sub>BL</sub>	WRP1a-BL 2a <sub>BL</sub>	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	0.00	0.00	0.00
3 <sub>BL</sub>	Input	Outage Allowance	M/d	0.20	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
4 <sub>BL</sub>	9 <sub>BL</sub> +11 <sub>BL</sub>	Process Losses	M/d	0.98	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35
5 <sub>BL</sub>	1 <sub>BL</sub> -(2 <sub>BL</sub> +3 <sub>BL</sub> +4 <sub>BL</sub> )	Water Available For Use (own sources)	M/d	11.84	12.44	12.44	12.44	12.44	12.44	12.44	12.44	12.44	12.44	12.44	12.44	12.44	12.44	12.44	12.44	12.44	12.44	12.44	12.44	12.44	12.44	12.44	12.44	12.44	12.44	12.44	12.44	12.44	12.44
<b>RAW WATER BASELINE</b>																																	
6 <sub>BL</sub>	Input	Raw Water Abstracted	M/d	11.18	10.30	10.22	10.15	10.09	10.05	10.24	10.19	10.15	10.13	10.10	10.07	10.04	10.03	10.01	9.98	9.97	9.96	9.93	9.91	9.90	9.90	9.89	9.88	9.87	9.87	9.86	9.86	9.86	9.86
7 <sub>BL</sub>	WRP1a-BL 7a <sub>BL</sub>	Raw Water Exported (existing)	M/d	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8 <sub>BL</sub>	WRP1a-BL 8a <sub>BL</sub>	Raw Water Imported (existing)	M/d	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9 <sub>BL</sub>	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	0.00	0.00	0.00
10 <sub>BL</sub>	WRP1a-BL 10a <sub>BL</sub>	Non Potable Supplies (existing)	M/d	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>POTABLE WATER TO POINT OF DELIVERY BASELINE</b>																																	
11 <sub>BL</sub>	Input	Treatment Works Losses and Operational Use	M/d	0.98	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35
12 <sub>BL</sub>	WRP1a-BL 12a <sub>BL</sub>	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	0.00	0.00	0.00
13 <sub>BL</sub>	WRP1a-BL 13a <sub>BL</sub>	Potable Water Imported	M/d	0.20	0.24	0.24	0.24	0.24	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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 <sub>BL</sub>	Input	Distribution Input	M/d	10.40	9.19	9.11	9.04	8.98	8.94	8.89	8.84	8.80	8.77	8.75	8.71	8.68	8.67	8.65	8.63	8.62	8.61	8.58	8.55	8.54	8.54	8.54	8.53	8.52	8.51	8.51	8.51	8.51	8.51
15 <sub>BL</sub>	Input	Distribution Losses	M/d	1.58	1.15	1.19	1.19	1.19	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.17	1.17	1.17	1.16	1.16	1.16	1.16	1.15	1.15	1.15	1.15	1.14	1.14	1.13	1.13	1.13	1.13	1.13
16 <sub>BL</sub>	Input	Distribution System Operational Use	M/d	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
17 <sub>BL</sub>	14 <sub>BL</sub> -15 <sub>BL</sub> -16 <sub>BL</sub>	Water Delivered	M/d	8.79	8.02	7.89	7.83	7.78	7.73	7.69	7.64	7.60	7.58	7.55	7.52	7.49	7.48	7.47	7.45	7.44	7.43	7.40	7.38	7.38	7.38	7.38	7.37	7.36	7.36	7.36	7.36	7.36	7.36
<b>POTABLE WATER CUSTOMER USE BASELINE</b>																																	
18 <sub>BL</sub>	Input	Unmeasured Household - Population	000's	18.736	19.277	18.533	17.933	17.253	16.612	16.007	15.406	14.848	14.380	13.946	13.485	13.057	12.681	12.306	11.941	11.613	11.306	10.968	10.650	10.371	10.118	9.867	9.603	9.361	9.133	8.912	8.698	8.490	
19 <sub>BL</sub>	Input	Unmeasured Household - Properties	000's	8.555	8.736	8.542	8.331	8.078	7.835	7.604	7.383	7.171	6.982	6.805	6.636	6.476	6.323	6.176	6.035	5.900	5.769	5.643	5.520	5.402	5.288	5.177	5.069	4.964	4.863	4.764	4.668	4.575	
20 <sub>BL</sub>	18 <sub>BL</sub> /19 <sub>BL</sub>	Unmeasured Household - Occupancy Rate	h/pr	2.19	2.21	2.17	2.15	2.14	2.12	2.10	2.09	2.07	2.06	2.05	2.03	2.02	2.01	1.99	1.98	1.97	1.96	1.94	1.93	1.92	1.91	1.91	1.89	1.89	1.88	1.87	1.86	1.86	
21 <sub>BL</sub>	WRP6-6.1 <sub>BL</sub>	Measured Household - Population	000's	6.444	6.937	7.436	7.982	8.584	9.203	9.830	10.430	11.036	11.633	12.228	12.769	13.305	13.860	14.384	14.883	15.396	15.905	16.339	16.768	17.226	17.660	18.074	18.439	18.818	19.200	19.573	19.939	20.296	
22 <sub>BL</sub>	WRP6-6.2 <sub>BL</sub>	Measured Household - Properties	000's	3.502	3.614	3.901	4.184	4.498	4.822	5.155	5.489	5.825	6.148	6.472	6.795	7.116	7.435	7.749	8.059	8.364	8.665	8.961	9.253	9.542	9.804	10.063	10.318	10.570	10.819	11.066	11.309	11.550	
23 <sub>BL</sub>	21 <sub>BL</sub> /22 <sub>BL</sub>	Measured Household - Occupancy Rate	h/pr	1.84	1.92	1.91	1.91	1.91	1.91	1.91	1.90	1.89	1.89	1.88	1.87	1.86	1.85	1.84	1.84	1.84	1.84	1.82	1.81	1.81	1.80	1.80	1.79	1.78	1.77	1.77	1.76	1.76	
24 <sub>BL</sub>	Input	Unmeasured Non Household - Population	000's	0.084	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076
25 <sub>BL</sub>	Input	Unmeasured Non Household - Properties	000's	0.235	0.227	0.219	0.211	0.204	0.196	0.189	0.182	0.176	0.169	0.163	0.157	0.152	0.146	0.141	0.136	0.131	0.126	0.122	0.122	0.122	0.122	0.122	0.122	0.122	0.122	0.122	0.122	0.122	0.122
26 <sub>BL</sub>	Input	Measured Non Household - Population	000's	1.099	0.913	0.913	0.913	0.913	0.913	0.913	0.913	0.913	0.913	0.913	0.913	0.913	0.913	0.913	0.913	0.913	0.913	0.913	0.913	0.913	0.913	0.913	0.913	0.913	0.913	0.913	0.913	0.913	0.913
27 <sub>BL</sub>	Input	Measured Non Household - Properties	000's	1.407	1.621	1.621	1.621	1.621	1.621	1.621	1.621	1.621	1.621	1.621	1.621	1.621	1.621	1.621	1.621	1.621	1.621	1.621	1.621	1.621	1.621	1.621	1.621	1.621	1.621	1.621	1.621	1.621	1.621
28 <sub>BL</sub>	18 <sub>BL</sub> +21 <sub>BL</sub> +24 <sub>BL</sub> +26 <sub>BL</sub>	Total Population	000's	26.363	27.203	26.958	26.904	26.826	26.804	26.825	26.874	27.002	27.163	27.243	27.350	27.529	27.679	27.813	27.999	28.200	28.296	28.407	28.585	28.767	28.929	29.031	29.168	29.322	29.474	29.625	29.776		
29 <sub>BL</sub>	Input	Void Households	000's	0.627	0.679	0.715	0.710	0.705	0.705	0.705	0.705	0.705	0.701	0.701	0.701	0.701	0.701	0.701	0.701	0.701	0.701	0.701	0.701	0.701	0.701	0.701	0.701	0.701	0.701	0.701	0.701	0.701	0.701
30 <sub>BL</sub>	Input	Void Non Households	000's	0.250	0.264	0.281	0.290	0.299	0.307	0.316	0.325	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333
30.1 <sub>BL</sub>	22 <sub>BL</sub> /(22 <sub>BL</sub> +19 <sub>BL</sub> )	Total Household Metering penetration (excl. voids)	%	29%	29%	31%	33%	36%	38%	40%	43%	45%	47%	49%	51%	52%	54%	56%	57%	59%	60%	61%	63%	64%	65%	66%	67%	68%	69%	70%	71%	72%	
30.2 <sub>BL</sub>	22 <sub>BL</sub> /(22 <sub>BL</sub> +19 <sub>BL</sub> +29 <sub>BL</sub> )	Total Household Metering penetration (incl. voids)	%	28%	28%	30%	32%	34%	36%	38%	40%	43%	44%	46%	48%	50%	51%	53%	54%	56%	57%	59%	60%	61%	62%	63%	64%	65%	66%	67%	68%	69%	
31 <sub>BL</sub>	19 <sub>BL</sub> +22 <sub>BL</sub> +25 <sub>BL</sub> +27 <sub>BL</sub> +29 <sub>BL</sub> +30 <sub>BL&lt;/</sub>																																

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 <sub>BL</sub>	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	
		<i>Climate change</i>	M/d																													
			M/d																													
			M/d																													
			M/d																													
7a <sub>BL</sub>	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 <sub>BL</sub>	Input as appropriate	Baseline Raw Water Imported (existing). Total here and specify below	M/d	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		from	M/d																													
		from	M/d																													
		from	M/d																													
10a <sub>BL</sub>	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 <sub>BL</sub>	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 <sub>BL</sub>	Input as appropriate	Baseline Potable Water Imported. Total here and specify below	M/d	0.20	0.24	0.24	0.24	0.24	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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 Northumbrian Water	M/d	0.20	0.24	0.24	0.24	0.24	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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																													

Company:	Yorkshire Water
Resource Zone Name	East SWZ
Resource Zone Number:	2 of 3
Planning Scenario Name:	Critical period
Chosen Level of Service:	1 in 25



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....																														
<b>SUMMARY of WAFU GAINS</b>																																
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	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	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	0.00	
65	Sum of 61	Total resource management gains		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

Company: Yorkshire Water

Resource Zone Name: East SWZ

Resource Zone Number: 2 of 3

Planning Scenario Name: Critical period

Chosen Level of Service: 1 in 25

Table WRP4-FP: Final planning supply-demand components

ROW Ref.	DERIVATION	DESCRIPTION	UNITS	Scenario Year 2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	2032-33	2033-34	2034-35	
<b>BASIC RESOURCES FINAL PLANNING</b>																																	
1 <sub>FP</sub>	Input	Deployable Output	MI/d	13.02	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	
2 <sub>FP</sub>	WRP4a-FP 2 <sub>FP</sub>	Reductions in Deployable Output	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	
3 <sub>FP</sub>	Input	Outage Allowance	MI/d	0.20	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	
4 <sub>FP</sub>	9 <sub>FP</sub> +11 <sub>FP</sub>	Process Losses	MI/d	0.98	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	
5 <sub>FP</sub>	1 <sub>FP</sub> -(2 <sub>FP</sub> +3 <sub>FP</sub> +4 <sub>FP</sub> )	Water Available For Use (own sources)	MI/d	11.84	12.44	12.44	12.44	12.44	12.44	12.44	12.44	12.44	12.44	12.44	12.44	12.44	12.44	12.44	12.44	12.44	12.44	12.44	12.44	12.44	12.44	12.44	12.44	12.44	12.44	12.44	12.44	12.44	
<b>RAW WATER FINAL PLANNING</b>																																	
6 <sub>FP</sub>	Input	Raw Water Abstracted	MI/d	11.18	10.30	10.22	10.15	10.09	10.05	10.24	10.19	10.15	10.13	10.10	10.07	10.04	10.03	10.01	9.98	9.97	9.96	9.93	9.91	9.90	9.90	9.89	9.88	9.87	9.87	9.86	9.86	9.86	
7 <sub>FP</sub>	WRP4a-FP 7 <sub>FP</sub>	Raw 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	0.00	
8 <sub>FP</sub>	WRP4a-FP 8 <sub>FP</sub>	Raw 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	0.00	
9 <sub>FP</sub>	Input	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	0.00	
10 <sub>FP</sub>	WRP4a-FP 10 <sub>FP</sub>	Non Potable Supplies	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	
<b>POTABLE WATER TO POINT OF DELIVERY FINAL PLANNING</b>																																	
11 <sub>FP</sub>	Input	Treatment Works Losses and Operational Use	MI/d	0.98	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	
12 <sub>FP</sub>	WRP4a-FP 12 <sub>FP</sub>	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	0.00	
13 <sub>FP</sub>	WRP4a-FP 13 <sub>FP</sub>	Potable Water Imported	MI/d	0.20	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
14 <sub>FP</sub>	Input	Distribution Input	MI/d	10.40	9.19	9.11	9.04	8.98	8.94	8.89	8.84	8.80	8.77	8.75	8.71	8.68	8.67	8.65	8.63	8.62	8.61	8.58	8.55	8.54	8.54	8.54	8.53	8.52	8.51	8.51	8.51	8.51	
15 <sub>FP</sub>	Input	Distribution Losses	MI/d	1.58	1.15	1.19	1.19	1.19	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.17	1.17	1.17	1.16	1.16	1.16	1.16	1.15	1.15	1.15	1.15	1.14	1.14	1.13	1.13	1.13	1.13	
16 <sub>FP</sub>	Input	Distribution System Operational Use	MI/d	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	
17 <sub>FP</sub>	14 <sub>FP</sub> -15 <sub>FP</sub> -16 <sub>FP</sub>	Water Delivered	MI/d	8.79	8.02	7.89	7.83	7.78	7.73	7.69	7.64	7.60	7.58	7.55	7.52	7.49	7.48	7.47	7.45	7.44	7.43	7.40	7.38	7.38	7.38	7.38	7.37	7.36	7.36	7.36	7.36		
<b>POTABLE WATER CUSTOMER USE FINAL PLANNING</b>																																	
18 <sub>FP</sub>	Input	Unmeasured Household - Population	000's	18.74	19.28	18.53	17.93	17.25	16.61	16.01	15.41	14.85	14.38	13.95	13.48	13.06	12.68	12.31	11.94	11.61	11.31	10.97	10.65	10.37	10.12	9.87	9.60	9.36	9.13	8.91	8.70	8.49	
19 <sub>FP</sub>	Input	Unmeasured Household - Properties	000's	8.56	8.74	8.54	8.33	8.08	7.84	7.60	7.38	7.17	6.98	6.80	6.64	6.48	6.32	6.18	6.04	5.90	5.77	5.64	5.52	5.40	5.29	5.18	5.07	4.96	4.86	4.76	4.67	4.57	
20 <sub>FP</sub>	18 <sub>FP</sub> /19 <sub>FP</sub>	Unmeasured Household - Occupancy Rate	h/pr	2.19	2.21	2.17	2.15	2.14	2.12	2.10	2.09	2.07	2.06	2.05	2.03	2.02	2.01	1.99	1.98	1.97	1.96	1.94	1.93	1.92	1.91	1.91	1.89	1.89	1.88	1.87	1.86	1.86	
21 <sub>FP</sub>	WRP6a-6.1 <sub>FP</sub>	Measured Household - Population	000's	6.444	6.937	7.436	7.982	8.584	9.203	9.830	10.430	11.036	11.633	12.228	12.769	13.305	13.860	14.384	14.883	15.396	15.905	16.339	16.788	17.226	17.660	18.074	18.439	18.818	19.200	19.573	19.939	20.296	
22 <sub>FP</sub>	WRP6a-6.2 <sub>FP</sub>	Measured Household - Properties	000's	3.502	3.614	3.901	4.184	4.498	4.822	5.155	5.489	5.825	6.148	6.472	6.795	7.116	7.435	7.749	8.059	8.364	8.665	8.961	9.253	9.542	9.804	10.063	10.318	10.570	10.819	11.066	11.309	11.550	
23 <sub>FP</sub>	21 <sub>FP</sub> /22 <sub>FP</sub>	Measured Household - Occupancy Rate	h/pr	1.84	1.92	1.91	1.91	1.91	1.91	1.91	1.90	1.89	1.89	1.88	1.87	1.86	1.85	1.84	1.84	1.82	1.81	1.81	1.80	1.80	1.79	1.78	1.77	1.77	1.76	1.76	1.76		
24 <sub>FP</sub>	Input	Unmeasured Non Household - Population	000's	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	
25 <sub>FP</sub>	Input	Unmeasured Non Household - Properties	000's	0.23	0.23	0.22	0.21	0.20	0.20	0.19	0.18	0.18	0.17	0.16	0.16	0.15	0.15	0.14	0.14	0.13	0.13	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
26 <sub>FP</sub>	Input	Measured Non Household - Population	000's	1.10	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	
27 <sub>FP</sub>	Input	Measured Non Household - Properties	000's	1.41	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	
28 <sub>FP</sub>	18 <sub>FP</sub> +21 <sub>FP</sub> +24 <sub>FP</sub> +26 <sub>FP</sub>	Total Population	000's	26.363	27.203	26.958	26.904	26.826	26.804	26.825	26.825	26.874	27.002	27.163	27.243	27.350	27.529	27.679	27.813	27.999	28.200	28.296	28.407	28.585	28.767	28.929	29.031	29.168	29.322	29.474	29.625	29.776	
29 <sub>FP</sub>	Input	Void Households	000's	0.63	0.68	0.72	0.71	0.71	0.71	0.71	0.71	0.71	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	
30 <sub>FP</sub>	Input	Void Non Households	000's	0.25	0.26	0.28	0.29	0.30	0.31	0.32	0.32	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	
30.1 <sub>FP</sub>	22 <sub>FP</sub> /(22 <sub>FP</sub> +19 <sub>FP</sub> )	Total Household Metering penetration (excl. voids)	%	29%	29%	31%	33%	36%	38%	40%	43%	45%	47%	49%	51%	52%	54%	56%	57%	59%	60%	61%	63%	64%	65%	66%	67%	68%	69%	70%	71%	72%	
30.2 <sub>FP</sub>	22 <sub>FP</sub> /(22 <sub>FP</sub> +19 <sub>FP</sub> +29 <sub>FP</sub> )	Total Household Metering penetration (incl. voids)	%	28%	28%	30%	32%	34%	36%	38%	40%	43%	44%	46%	48%	50%	51%	53%	54%	56%	57%	59%	60%	61%	62%	63%	64%	65%	66%	67%	68%	69%	
31 <sub>FP</sub>	19 <sub>FP</sub> +22 <sub>FP</sub> +25 <sub>FP</sub> +27 <sub>FP</sub> +29 <sub>FP</sub> +30 <sub>FP</sub>	Total Properties	000's	14.577	15.141	15.280	15.347	15.405	15.488	15.591	15.705	15.831	15.956	16.095	16.244	16.400	16.559	16.722	16.886	17.050	17.216	17.381	17.551	17.721	17.889	18.016	18.164	18.312	18.459	18.607	18.754	18.902	
<b>POTABLE WATER DELIVERED FINAL PLANNING</b>																																	
32 <sub>FP</sub>	Input	Water Taken Unbilled	MI/d	0.16																													

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 <sub>FP</sub>	Input as appropriate	Reductions in Final Planning Deployable Output. Total here and specify below	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		
		<i>Climate change</i>	MI/d																														
			MI/d																														
			MI/d																														
			MI/d																														
7a <sub>FP</sub>	Input as appropriate	Final Planning Raw Water Exported. Total here and specify below	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		
		to	MI/d																														
		to	MI/d																														
		to	MI/d																														
8a <sub>FP</sub>	Input as appropriate	Final Planning Raw Water Imported. Total here and specify below	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		
		from	MI/d																														
		from	MI/d																														
		from	MI/d																														
10a <sub>FP</sub>	Input as appropriate	Final Planning Non Potable Supplies. Total here and specify below	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		
		to	MI/d																														
		to	MI/d																														
		to	MI/d																														
12a <sub>FP</sub>	Input as appropriate	Final Planning Potable Water Exported. Total here and specify below	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		
		to	MI/d																														
		to	MI/d																														
		to	MI/d																														
13a <sub>FP</sub>	Input as appropriate	Final Planning Potable Water Imported. Total here and specify below	MI/d	0.20	0.24	0.24	0.24	0.24	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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 Northumbrian Water	MI/d	0.20	0.24	0.24	0.24	0.24	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	MI/d																														
		from	MI/d																														

Company:	<u>Yorkshire Water</u>
Resource Zone Name	<u>East SWZ</u>
Resource Zone Number:	<u>2</u> of <u>3</u>
Planning Scenario Name:	<u>Critical period</u>
Chosen Level of Service:	<u>1 in 25</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 <sub>BL</sub>	6.5 <sub>BL</sub> +6.9 <sub>BL</sub> +6.13 <sub>BL</sub> +6.17 <sub>BL</sub> +6.21 <sub>BL</sub> +6.25 <sub>BL</sub>	Total	Population	000's	6.44	6.94	7.44	7.98	8.58	9.20	9.83	10.43	11.04	11.63	12.23	12.77	13.30	13.86	14.38	14.88	15.40	16.34	16.77	17.23	17.66	18.07	18.44	18.82	19.20	19.57	19.94	20.30		
6.2 <sub>BL</sub>	6.6 <sub>BL</sub> +6.10 <sub>BL</sub> +6.14 <sub>BL</sub> +6.18 <sub>BL</sub> +6.22 <sub>BL</sub> +6.26 <sub>BL</sub>	Total	Properties	000's	3.50	3.61	3.90	4.18	4.50	4.82	5.16	5.49	5.82	6.15	6.47	6.79	7.12	7.43	7.75	8.06	8.36	8.66	8.96	9.25	9.54	9.80	10.06	10.32	10.57	10.82	11.07	11.31	11.55	
6.3 <sub>BL</sub>	6.1 <sub>BL</sub> /6.2 <sub>BL</sub>	Total	Occupancy	h/prop	1.84	1.92	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.89	1.89	1.89	1.88	1.87	1.86	1.86	1.85	1.84	1.84	1.82	1.81	1.81	1.80	1.80	1.79	1.78	1.77	1.76	1.76	
6.5 <sub>BL</sub>	Input	Meter optants	Population	000's	0.29	0.28	0.65	1.05	1.53	2.00	2.44	2.86	3.26	3.62	3.95	4.27	4.57	4.85	5.13	5.39	5.64	5.88	6.11	6.33	6.54	6.75	6.95	7.14	7.33	7.51	7.68	7.85	8.01	
6.6 <sub>BL</sub>	Input	Meter optants	Properties	000's	0.16	0.15	0.34	0.55	0.80	1.05	1.28	1.50	1.71	1.90	2.08	2.25	2.41	2.56	2.71	2.85	2.98	3.11	3.24	3.36	3.48	3.59	3.71	3.81	3.92	4.02	4.12	4.21	4.31	
6.7 <sub>BL</sub>	6.5 <sub>BL</sub> /6.6 <sub>BL</sub>	Meter optants	Occupancy	h/prop	1.84	1.92	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.90	1.90	1.90	1.90	1.90	1.89	1.89	1.89	1.89	1.88	1.88	1.88	1.88	1.87	1.87	1.87	1.87	1.86	1.86	1.86	
6.8 <sub>BL</sub>	Input	Meter optants	pcc	l/h/d																														
6.9 <sub>BL</sub>	Input	New properties	Population	000's	0.28	0.26	0.44	0.57	0.69	0.85	1.04	1.25	1.49	1.74	2.02	2.31	2.61	2.92	3.23	3.54	3.85	4.17	4.48	4.78	5.09	5.36	5.62	5.89	6.15	6.41	6.67	6.93	7.19	
6.10 <sub>BL</sub>	Input	New properties	Properties	000's	0.15	0.13	0.23	0.30	0.36	0.44	0.54	0.66	0.78	0.92	1.06	1.22	1.38	1.54	1.71	1.88	2.05	2.22	2.39	2.56	2.73	2.88	3.02	3.17	3.32	3.47	3.61	3.76	3.91	
6.11 <sub>BL</sub>	6.9 <sub>BL</sub> /6.10 <sub>BL</sub>	New properties	Occupancy	h/prop	1.84	1.92	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.90	1.90	1.90	1.90	1.89	1.89	1.89	1.88	1.88	1.87	1.87	1.87	1.86	1.86	1.86	1.85	1.85	1.85	1.84	1.84	
6.12 <sub>BL</sub>	Input	New properties	pcc	l/h/d																														
6.13 <sub>BL</sub>	Input	Metering on change of occupancy	Population	000's	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6.14 <sub>BL</sub>	Input	Metering on change of occupancy	Properties	000's	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6.15 <sub>BL</sub>	6.13 <sub>BL</sub> /6.14 <sub>BL</sub>	Metering on change of occupancy	Occupancy	h/prop	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
6.16 <sub>BL</sub>	Input	Metering on change of occupancy	pcc	l/h/d																														
6.17 <sub>BL</sub>	Input	Selective metering	Population	000's	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6.18 <sub>BL</sub>	Input	Selective metering	Properties	000's	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6.19 <sub>BL</sub>	6.17 <sub>BL</sub> /6.18 <sub>BL</sub>	Selective metering	Occupancy	h/prop	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
6.20 <sub>BL</sub>	Input	Selective metering	pcc	l/h/d																														
6.21 <sub>BL</sub>	Input	Compulsory metering	Population	000's	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6.22 <sub>BL</sub>	Input	Compulsory metering	Properties	000's	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6.23 <sub>BL</sub>	6.21 <sub>BL</sub> /6.22 <sub>BL</sub>	Compulsory metering	Occupancy	h/prop	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
6.24 <sub>BL</sub>	Input	Compulsory metering	pcc	l/h/d																														
6.25 <sub>BL</sub>	Input	Other changes to existing metering	Population	000's	5.87	6.40	6.35	6.36	6.36	6.36	6.35	6.32	6.29	6.27	6.26	6.19	6.12	6.09	6.03	5.95	5.90	5.86	5.76	5.65	5.59	5.55	5.50	5.41	5.34	5.28	5.22	5.16	5.09	
6.26 <sub>BL</sub>	Input	Other changes to existing metering	Properties	000's	3.19	3.33	3.33	3.33	3.33	3.33	3.33	3.33	3.33	3.33	3.33	3.33	3.33	3.33	3.33	3.33	3.33	3.33	3.33	3.33	3.33	3.33	3.33	3.33	3.33	3.33	3.33	3.33	3.33	
6.27 <sub>BL</sub>	6.25 <sub>BL</sub> /6.26 <sub>BL</sub>	Other changes to existing metering	Occupancy	h/prop	1.84	1.92	1.91	1.91	1.91	1.91	1.91	1.90	1.89	1.88	1.88	1.86	1.84	1.83	1.81	1.79	1.77	1.76	1.73	1.70	1.68	1.67	1.65	1.62	1.60	1.58	1.57	1.55	1.53	
6.28 <sub>BL</sub>	Input	Other changes to existing metering	pcc	l/h/d																														

Company:	Yorkshire Water
Resource Zone Name	East SWZ
Resource Zone Number:	2 of 3
Planning Scenario Name:	Critical period
Chosen Level of Service:	1 in 25

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 <sub>FP</sub>	6.5 <sub>FP</sub> +6.9 <sub>FP</sub> +6.13 <sub>FP</sub> +6.17 <sub>FP</sub> +6.21 <sub>FP</sub> +6.25 <sub>FP</sub>	Total	Population	000's	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6.2 <sub>FP</sub>	6.6 <sub>FP</sub> +6.10 <sub>FP</sub> +6.14 <sub>FP</sub> +6.18 <sub>FP</sub> +6.22 <sub>FP</sub> +6.26 <sub>FP</sub>	Total	Properties	000's	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6.3 <sub>FP</sub>	6.1 <sub>FP</sub> /6.2 <sub>FP</sub>	Total	Occupancy	h/prop	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
6.5 <sub>FP</sub>	Input	Meter optants	Population	000's																													
6.6 <sub>FP</sub>	Input	Meter optants	Properties	000's																													
6.7 <sub>FP</sub>	6.5 <sub>FP</sub> /6.6 <sub>FP</sub>	Meter optants	Occupancy	h/prop	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
6.8 <sub>FP</sub>	Input	Meter optants	pcc	l/h/d																													
6.9 <sub>FP</sub>	Input	New properties	Population	000's																													
6.10 <sub>FP</sub>	Input	New properties	Properties	000's																													
6.11 <sub>FP</sub>	6.9 <sub>FP</sub> /6.10 <sub>FP</sub>	New properties	Occupancy	h/prop	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
6.12 <sub>FP</sub>	Input	New properties	pcc	l/h/d																													
6.13 <sub>FP</sub>	Input	Metering on change off occupancy	Population	000's																													
6.14 <sub>FP</sub>	Input	Metering on change off occupancy	Properties	000's																													
6.15 <sub>FP</sub>	6.13 <sub>FP</sub> /6.14 <sub>FP</sub>	Metering on change off occupancy	Occupancy	h/prop	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
6.16 <sub>FP</sub>	Input	Metering on change off occupancy	pcc	l/h/d																													
6.17 <sub>FP</sub>	Input	Selective metering	Population	000's																													
6.18 <sub>FP</sub>	Input	Selective metering	Properties	000's																													
6.19 <sub>FP</sub>	6.17 <sub>FP</sub> /6.18 <sub>FP</sub>	Selective metering	Occupancy	h/prop	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
6.20 <sub>FP</sub>	Input	Selective metering	pcc	l/h/d																													
6.21 <sub>FP</sub>	Input	Compulsory metering	Population	000's																													
6.22 <sub>FP</sub>	Input	Compulsory metering	Properties	000's																													
6.23 <sub>FP</sub>	6.21 <sub>FP</sub> /6.22 <sub>FP</sub>	Compulsory metering	Occupancy	h/prop	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
6.24 <sub>FP</sub>	Input	Compulsory metering	pcc	l/h/d																													
6.25 <sub>FP</sub>	Input	Other changes to existing metering	Population	000's																													
6.26 <sub>FP</sub>	Input	Other changes to existing metering	Properties	000's																													
6.27 <sub>FP</sub>	6.25 <sub>FP</sub> /6.26 <sub>FP</sub>	Other changes to existing metering	Occupancy	h/prop	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
6.28 <sub>FP</sub>	Input	Other changes to existing metering	pcc	l/h/d																													

Company:	Yorkshire Water
Resource Zone Name	East SWZ
Resource Zone Number:	2 of 3
Planning Scenario Name:	Critical period
Chosen Level of Service:	1 in 25

Table WRP7: Baseline household micro-component consumption

Row Ref	Derivation	Description <i>Insert additional components as required</i>	Units	Scenario Year 2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	2032-33	2033-34	2034-35
7.1	Input	Unmeasured toilet flushing	l/h/d																													
7.2	Input	Unmeasured bath use	l/h/d																													
7.3	Input	Unmeasured shower use	l/h/d																													
7.4	Input	Unmeasured hand basin	l/h/d																													
7.5	Input	Unmeasured clothes washing	l/h/d																													
7.6	Input	Unmeasured dish washing	l/h/d																													
7.7	Input	Unmeasured garden use	l/h/d																													
7.8	Input	Unmeasured car washing	l/h/d																													
7.9	Input	Unmeasured miscellaneous use	l/h/d																													
7.10	Input		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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
7.20	Input	Measured toilet flushing	l/h/d																													
7.21	Input	Measured bath use	l/h/d																													
7.22	Input	Measured shower use	l/h/d																													
7.23	Input	Measured hand basin	l/h/d																													
7.24	Input	Measured clothes washing	l/h/d																													
7.25	Input	Measured dish washing	l/h/d																													
7.26	Input	Measured garden use	l/h/d																													
7.27	Input	Measured car washing	l/h/d																													
7.28	Input	Measured miscellaneous use	l/h/d																													
7.29	Input		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)	Measured pcc	l/h/d	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		

Company:	Yorkshire Water
Resource Zone Name:	East SWZ
Resource Zone Number:	2 of 3
Planning Scenario Name:	Critical period
Chosen Level of Service:	1 in 25

Table WRP7a: Final planning household micro-component consumption

Row Ref	Derivation	Description <i>Insert additional components as required</i>	Units	Scenario Year 2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	2032-33	2033-34	2034-35		
7.1	Input	Unmeasured toilet flushing	l/h/d																															
7.2	Input	Unmeasured bath use	l/h/d																															
7.3	Input	Unmeasured shower use	l/h/d																															
7.4	Input	Unmeasured hand basin	l/h/d																															
7.5	Input	Unmeasured clothes washing	l/h/d																															
7.6	Input	Unmeasured dish washing	l/h/d																															
7.7	Input	Unmeasured garden use	l/h/d																															
7.8	Input	Unmeasured car washing	l/h/d																															
7.9	Input	Unmeasured miscellaneous use	l/h/d																															
7.10	Input		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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
7.20	Input	Measured toilet flushing	l/h/d																															
7.21	Input	Measured bath use	l/h/d																															
7.22	Input	Measured shower use	l/h/d																															
7.23	Input	Measured hand basin	l/h/d																															
7.24	Input	Measured clothes washing	l/h/d																															
7.25	Input	Measured dish washing	l/h/d																															
7.26	Input	Measured garden use	l/h/d																															
7.27	Input	Measured car washing	l/h/d																															
7.28	Input	Measured miscellaneous use	l/h/d																															
7.29	Input		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)	Measured pcc	l/h/d	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

Company:	Yorkshire Water
Resource Zone Name:	East SWZ
Resource Zone Number:	2 of 3
Planning Scenario Name:	Critical period
Chosen Level of Service:	1 in 25

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

Company:	<u>Yorkshire Water</u>
Resource Zone Name	<u>East SWZ</u>
Resource Zone Number:	<u>2</u> of <u>3</u>
Planning Scenario Name:	<u>Critical period</u>
Chosen Level of Service:	<u>1 in 25</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		
<b>BASIC RESOURCES NORMAL YEAR</b>																																		
3 <sub>N</sub>	Input	Outage Allowance	MI/d																															
5 <sub>N</sub>	Input	Water Available For Use (own sources)	MI/d																															
<b>RAW WATER NORMAL YEAR</b>																																		
6 <sub>N</sub>	Input	Raw Water Abstracted	MI/d																															
7 <sub>N</sub>	Input	Raw Water Exported (existing)	MI/d																															
8 <sub>N</sub>	Input	Raw Water Imported (existing)	MI/d																															
9 <sub>N</sub>	Input	Raw Water Losses and Operational Use	MI/d																															
10 <sub>N</sub>	Input	Non Potable Supplies (existing)	MI/d																															
<b>POTABLE WATER TO POINT OF DELIVERY NORMAL YEAR</b>																																		
11 <sub>N</sub>	Input	Treatment Works Losses and Operational Use	MI/d																															
12 <sub>N</sub>	Input	Potable Water Exported	MI/d																															
13 <sub>N</sub>	Input	Potable Water Imported	MI/d																															
14 <sub>N</sub>	Input	Distribution Input	MI/d																															
15 <sub>N</sub>	Input	Distribution Losses	MI/d																															
16 <sub>N</sub>	Input	Distribution System Operational Use	MI/d																															
17 <sub>N</sub>	14 <sub>N</sub> -15 <sub>N</sub> -16 <sub>N</sub>	Water Delivered	MI/d	0.00																														
<b>POTABLE WATER DELIVERED NORMAL YEAR</b>																																		
32 <sub>N</sub>	Input	Water Taken Unbilled	MI/d																															
33 <sub>N</sub>	Input	Water Delivered Unmeasured Household	MI/d																															
34 <sub>N</sub>	Input	Unmeasured Household - USPL	MI/d																															
35 <sub>N</sub>	33 <sub>N</sub> -34 <sub>N</sub>	Unmeasured 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	
36 <sub>N</sub>	Input	Unmeasured Household - PCC	l/h/d																															
37 <sub>N</sub>	Input	Water Delivered Measured Household	MI/d																															
38 <sub>N</sub>	Input	Measured Household - USPL	MI/d																															
39 <sub>N</sub>	37 <sub>N</sub> -38 <sub>N</sub>	Measured 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	
40 <sub>N</sub>	Input	Measured Household - PCC	l/h/d																															
41 <sub>N</sub>	Input	Water Delivered Unmeasured Non Household	MI/d																															
42 <sub>N</sub>	Input	Unmeasured Non Household - USPL	MI/d																															
43 <sub>N</sub>	41 <sub>N</sub> -42 <sub>N</sub>	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	
44 <sub>N</sub>	Input	Water Delivered Measured Non Household	MI/d																															
45 <sub>N</sub>	Input	Measured Non Household - USPL	MI/d																															
46 <sub>N</sub>	44 <sub>N</sub> -45 <sub>N</sub>	Measured 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	
47 <sub>N</sub>	Input	Void Properties - USPL	MI/d																															
<b>LEAKAGE NORMAL YEAR</b>																																		
48 <sub>N</sub>	Input	Total Leakage	MI/d																															
49 <sub>N</sub>	Input	Total Leakage	l/pr/d																															
<b>SUPPLY DEMAND BALANCE NORMAL YEAR</b>																																		
50 <sub>N</sub>	5 <sub>N</sub> +(8 <sub>N</sub> +13 <sub>N</sub> )-(7 <sub>N</sub> +12 <sub>N</sub> )-10 <sub>N</sub>	Total Water Available For Use	MI/d	0.00																														
51 <sub>N</sub>	Input	Available Headroom	MI/d																															
52 <sub>N</sub>	Input	Target Headroom	MI/d																															
53 <sub>N</sub>	51 <sub>N</sub> -52 <sub>N</sub>	Supply Demand Balance	MI/d	0.00																														

Company: Yorkshire Water

Resource Zone Name: East SWZ

Resource Zone Number: 2 of 3

Planning Scenario Name: Critical period

Chosen Level of Service: 1 in 25