

Water Resources Planning Guideline

Water Resource Planning Guidelines - Supply - Demand Worksheet **version 1_0 (file name: S-D Worksheet_v 1_0.xls)**

Instructions:

All information for completing tables is contained within the Water Resources Planning Guidance document **reference (Version 1.1) date (April 2007)**
The Guideline is also available on the Environment Agency website at <http://www.environment-agency.gov.uk/subjects/waterres/981441/408371/>
All queries on the content of this workbook should be directed to water-companies-plan@environment-agency.gov.uk

All calculated cells should use the calculations given in the corresponding derivation column

Yellow shaded cells are calculation cells and protected. 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

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:	<u>Essex & Suffolk Water</u>			
Resource Zone Name	<u>Northumbrian Industrial</u>			
Resource Zone Number:	<u>1 of 4</u>			
Planning Scenario Name:	<u>Dry Year</u>			
Chosen Level of Service:	<u>Company Specified</u>			
Responsible Officer:	<u>M. Lunn</u>	Signed:	<u>M. Lunn</u>	Dated: <u>18-Apr-08</u>
Version:	Draft			

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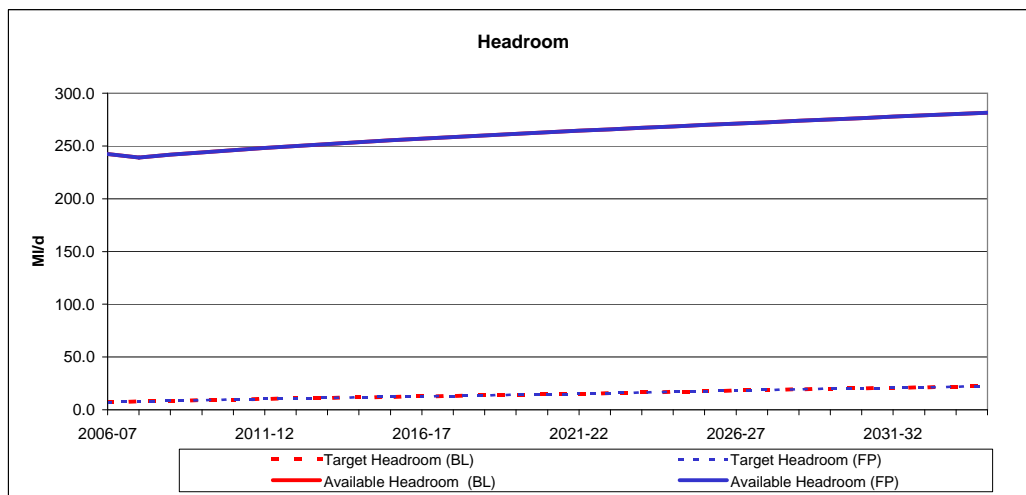
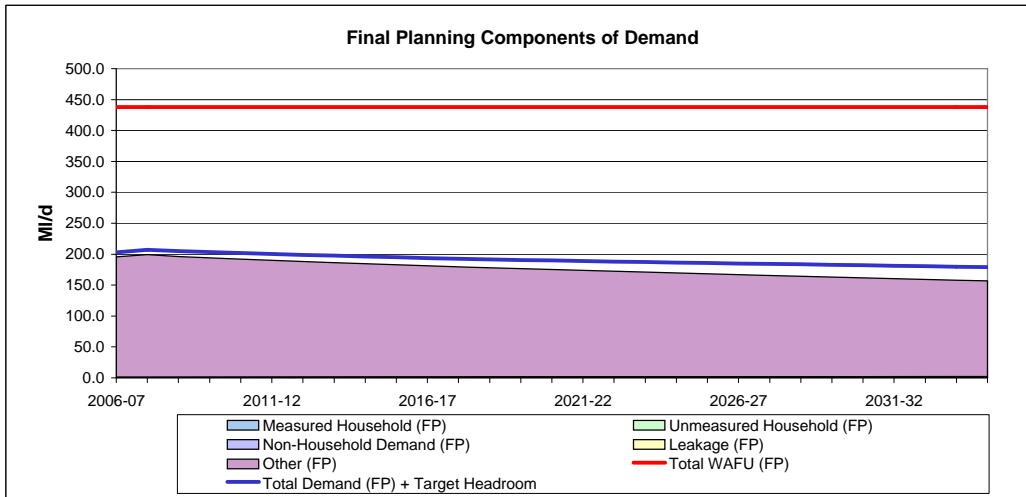
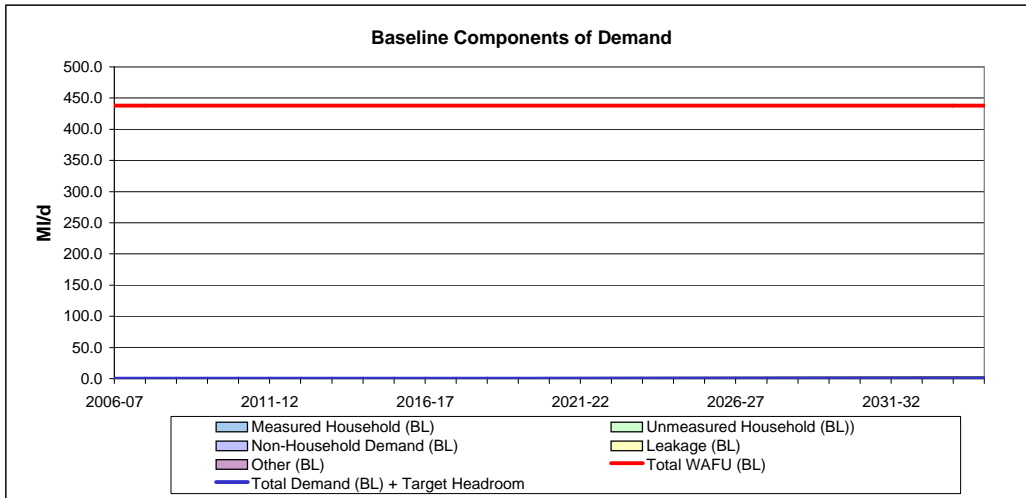
WRP Tables

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Summary of WRP Tables Inputs



Company:	<u>Essex & Suffolk Water</u>
Resource Zone Name	<u>Northumbrian Industrial</u>
Resource Zone Number:	<u>1 of 4</u>
Planning Scenario Name:	<u>Dry Year</u>
Chosen Level of Service:	<u>Company Specified</u>

Table WRP1-BL: Baseline Supply Demand Components

ROW Ref.	DERIVATION	DESCRIPTION	UNITS	Scenario Year 2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	2032-33	2033-34	2034-35	
BASIC RESOURCES BASELINE																																	
1 _{BL}	Input	Deployable Output (Specify individual Source Yields on Table WRP4)	MI/d	438.11	438.11	438.11	438.11	438.11	438.11	438.11	438.11	438.11	438.11	438.11	438.11	438.11	438.11	438.11	438.11	438.11	438.11	438.11	438.11	438.11	438.11	438.11	438.11	438.11	438.11	438.11	438.11	438.11	438.11
2 _{BL}	WRP1a-BL 2a _{BL}	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	0.00
3 _{BL}	Input	Outage Allowance	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	
4 _{BL}	9 _{BL} +11 _{BL}	Process Losses	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	
5 _{BL}	1 _{BL} -(2 _{BL} +3 _{BL} +4 _{BL})	Water Available For Use (own sources)	MI/d	438.11	438.11	438.11	438.11	438.11	438.11	438.11	438.11	438.11	438.11	438.11	438.11	438.11	438.11	438.11	438.11	438.11	438.11	438.11	438.11	438.11	438.11	438.11	438.11	438.11	438.11	438.11	438.11	438.11	
RAW WATER BASELINE																																	
6 _{BL}	Input	Raw Water Abstracted	MI/d	210.30	210.80	208.41	206.11	203.88	201.74	199.70	197.71	195.81	193.99	192.24	190.56	188.92	187.37	185.77	184.23	182.72	181.21	179.71	178.23	176.76	175.30	173.86	172.42	171.00	169.59	168.19	166.80	166.80	
7 _{BL}	WRP1a-BL 7a _{BL}	Raw Water Exported (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	0.00	
8 _{BL}	WRP1a-BL 8a _{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	0.00	
9 _{BL}	Input	Raw Water Losses and Operational Use	MI/d	14.54	11.77	12.03	11.90	11.76	11.65	11.55	11.42	11.31	11.23	11.12	11.02	10.90	10.82	10.63	10.54	10.40	10.26	10.12	9.99	9.85	9.72	9.58	9.45	9.32	9.18	9.05	8.92	10.17	
10 _{BL}	WRP1a-BL 10a _{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	0.00	
POTABLE WATER TO POINT OF DELIVERY BASELINE																																	
11 _{BL}	Input	Treatment Works 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	
12 _{BL}	WRP1a-BL 12a _{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	0.00	
13 _{BL}	WRP1a-BL 13a _{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	0.00	
14 _{BL}	Input	Distribution Input	MI/d	195.77	199.03	196.38	194.21	192.12	190.09	188.14	186.29	184.49	182.77	181.12	179.54	178.02	176.54	175.14	173.70	172.32	170.95	169.59	168.24	166.91	165.59	164.27	162.97	161.68	160.40	159.14	157.88	156.63	
15 _{BL}	Input	Distribution Losses	MI/d	1.075	1.11	1.15	1.19	1.23	1.27	1.31	1.34	1.38	1.42	1.46	1.50	1.54	1.57	1.61	1.65	1.69	1.73	1.77	1.80	1.84	1.88	1.92	1.96	2.00	2.03	2.07	2.11	2.15	
16 _{BL}	Input	Distribution System 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	
17 _{BL}	14 _{BL} -15 _{BL} -16 _{BL}	Water Delivered	MI/d	194.69	197.92	195.23	193.02	190.89	188.82	186.84	184.95	183.11	181.35	179.66	178.04	176.49	174.97	173.53	172.05	170.63	169.22	167.82	166.44	165.07	163.70	162.35	161.02	159.69	158.37	157.06	155.77	154.48	
POTABLE WATER CUSTOMER USE BASELINE																																	
18 _{BL}	Input	Unmeasured Household - Population	000's																														
19 _{BL}	Input	Unmeasured Household - Properties	000's																														
20 _{BL}	18 _{BL} /19 _{BL}	Unmeasured Household - Occupancy Rate	h/pr	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
21 _{BL}	Input	Measured Household - Population	000's																														
22 _{BL}	Input	Measured Household - Properties	000's																														
23 _{BL}	21 _{BL} /22 _{BL}	Measured Household - Occupancy Rate	h/pr	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
24 _{BL}	Input	Unmeasured Non Household - Population	000's																														
25 _{BL}	Input	Unmeasured Non Household - Properties	000's																														
26 _{BL}	Input	Measured Non Household - Population	000's																														
27 _{BL}	Input	Measured Non Household - Properties	000's																														
28 _{BL}	18 _{BL} +21 _{BL} +24 _{BL} +26 _{BL}	Total Population	000's	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
29 _{BL}	Input	Void Households	000's																														
30 _{BL}	Input	Void Non Households	000's																														
31 _{BL}	19 _{BL} +22 _{BL} +25 _{BL} +27 _{BL} +29 _{BL} +30 _{BL}	Total Properties	000's	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
POTABLE WATER DELIVERED BASELINE																																	
32 _{BL}	Input	Water Taken Unbilled	MI/d																														
33 _{BL}	Input	Water Delivered Unmeasured Household	MI/d																														
34 _{BL}	Input	Unmeasured Household - USPL	MI/d																														
35 _{BL}	33 _{BL} -34 _{BL}	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	
36 _{BL}	(35 _{BL} *1000000)/(18 _{BL} *1000)	Unmeasured Household - PCC	l/h/d	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
37 _{BL}	Input	Water Delivered Measured Household	MI/d																														
38 _{BL}	Input	Measured Household - USPL	MI/d																														
39 _{BL}	37 _{BL} -38 _{BL}	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	
40 _{BL}	(39 _{BL} *1000000)/(21 _{BL} *1000)	Measured Household - PCC	l/h/d	#DIV/0!	#DIV/0!	#																											

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	
				2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	2032-33	2033-34	2034-35		
2a _{BL}	Input as appropriate	Reductions in Baseline Deployable Output: Total here and specify below	M/d	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	
		<i>Sustainability Reduction - Stour Estuary</i>	M/d	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	
			M/d																															
			M/d																															
			M/d																															
7a _{BL}	Input as appropriate	Baseline Raw Water Exported (existing). Total here and specify below	M/d	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		<i>to</i>	M/d																															
		<i>to</i>	M/d																															
		<i>to</i>	M/d																															
8a _{BL}	Input as appropriate	Baseline Raw Water Imported (existing). Total here and specify below	M/d	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		<i>from Thames Water Utilities to Chigwell</i>	M/d	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		<i>from</i>	M/d																															
		<i>from</i>	M/d																															
10a _{BL}	Input as appropriate	Baseline Non Potable Supplies (existing). Total here and specify below	M/d	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		<i>to</i>	M/d																															
		<i>to</i>	M/d																															
		<i>to</i>	M/d																															
12a _{BL}	Input as appropriate	Baseline Potable Water Imported. Total here and specify below	M/d	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		<i>from</i>	M/d																															
		<i>from</i>	M/d																															
		<i>from</i>	M/d																															
13a _{BL}	Input as appropriate	Baseline Potable Water Exported. Total here and specify below	M/d	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
		<i>to</i>	M/d																															
		<i>to</i>	M/d																															
		<i>to</i>	M/d																															

Company:	<u>Essex & Suffolk Water</u>
Resource Zone Name:	<u>Northumbrian Industrial</u>
Resource Zone Number:	<u>1 of 4</u>
Planning Scenario Name:	<u>Dry Year</u>
Chosen Level of Service:	<u>Company Specified</u>

Table WRP4-FP: Final Planning Supply Demand Components

ROW Ref.	DERIVATION	DESCRIPTION	UNITS	Scenario Year 2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	2032-33	2033-34	2034-35	
BASIC RESOURCES FINAL PLANNING																																	
1 _{FP}	Input	Deployable Output (Specify individual Source Yields on Table WRP4)	Mi/d	438.11	438.11	438.11	438.11	438.11	438.11	438.11	438.11	438.11	438.11	438.11	438.11	438.11	438.11	438.11	438.11	438.11	438.11	438.11	438.11	438.11	438.11	438.11	438.11	438.11	438.11	438.11	438.11	438.11	438.11
2 _{FP}	WRP4a-FP 2a _{FP}	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	0.00
3 _{FP}	Input	Outage Allowance	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	
4 _{FP}	9 _{FP} +11 _{FP}	Process Losses	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	
5 _{FP}	1 _{FP} -(2 _{FP} +3 _{FP} +4 _{FP})	Water Available For Use (own sources)	Mi/d	438.11	438.11	438.11	438.11	438.11	438.11	438.11	438.11	438.11	438.11	438.11	438.11	438.11	438.11	438.11	438.11	438.11	438.11	438.11	438.11	438.11	438.11	438.11	438.11	438.11	438.11	438.11	438.11	438.11	
RAW WATER FINAL PLANNING																																	
6 _{FP}	Input	Raw Water Abstracted	Mi/d	210.30	210.80	208.41	206.11	203.88	201.74	199.70	197.71	195.81	193.99	192.24	190.56	188.92	187.37	185.77	184.23	182.72	181.21	179.71	178.23	176.76	175.30	173.86	172.42	171.00	169.59	168.19	166.80	165.30	
7 _{FP}	WRP4a-FP 7a _{FP}	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 _{FP}	WRP4a-FP 8a _{FP}	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 _{FP}	Input	Raw Water Losses and Operational Use	Mi/d	14.54	11.77	12.03	11.90	11.76	11.65	11.55	11.42	11.31	11.23	11.12	11.02	10.90	10.82	10.63	10.54	10.40	10.26	10.12	9.99	9.85	9.72	9.58	9.45	9.32	9.18	9.05	8.92	8.67	
10 _{FP}	WRP4a- FP 10a _{FP}	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	
POTABLE WATER TO POINT OF DELIVERY FINAL PLANNING																																	
11 _{FP}	Input	Treatment Works 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	
12 _{FP}	WRP4a-FP 12a _{FP}	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	0.00	
13 _{FP}	WRP4a-FP 13a _{FP}	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	
14 _{FP}	Input	Distribution Input	Mi/d	195.77	199.03	196.38	194.21	192.12	190.09	188.14	186.29	184.49	182.77	181.12	179.54	178.02	176.54	175.14	173.70	172.32	170.95	169.59	168.24	166.91	165.59	164.27	162.97	161.68	160.40	159.14	157.88	156.63	
15 _{FP}	Input	Distribution Losses	Mi/d	1.075	1.11	1.15	1.19	1.23	1.27	1.31	1.34	1.38	1.42	1.46	1.50	1.54	1.57	1.61	1.65	1.69	1.73	1.77	1.80	1.84	1.88	1.92	1.96	2.00	2.03	2.07	2.11	2.15	
16 _{FP}	Input	Distribution System 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	
17 _{FP}	14 _{FP} -15 _{FP} -16 _{FP}	Water Delivered	Mi/d	194.69	197.92	195.23	193.02	190.89	188.82	186.84	184.95	183.11	181.35	179.66	178.04	176.49	174.97	173.53	172.05	170.63	169.22	167.82	166.44	165.07	163.70	162.35	161.02	159.69	158.37	157.06	155.77	154.48	
POTABLE WATER CUSTOMER USE FINAL PLANNING																																	
18 _{FP}	Input	Unmeasured Household - Population	000's																														
19 _{FP}	Input	Unmeasured Household - Properties	000's																														
20 _{FP}	18 _{FP} /19 _{FP}	Unmeasured Household - Occupancy Rate	h/pr	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
21 _{FP}	Input	Measured Household - Population	000's																														
22 _{FP}	Input	Measured Household - Properties	000's																														
23 _{FP}	21 _{FP} /22 _{FP}	Measured Household - Occupancy Rate	h/pr	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
24 _{FP}	Input	Unmeasured Non Household - Population	000's																														
25 _{FP}	Input	Unmeasured Non Household - Properties	000's																														
26 _{FP}	Input	Measured Non Household - Population	000's																														
27 _{FP}	Input	Measured Non Household - Properties	000's																														
28 _{FP}	18 _{FP} +21 _{FP} +24 _{FP} +26 _{FP}	Total Population	000's	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
29 _{FP}	Input	Void Households	000's																														
30 _{FP}	Input	Void Non Households	000's																														
31 _{FP}	19 _{FP} +22 _{FP} +25 _{FP} +27 _{FP} +29 _{FP} +30 _{FP}	Total Properties	000's	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
POTABLE WATER DELIVERED FINAL PLANNING																																	
32 _{FP}	Input	Water Taken Unbilled	Mi/d																														
33 _{FP}	Input	Water Delivered Unmeasured Household	Mi/d																														
34 _{FP}	Input	Unmeasured Household - USPL	Mi/d																														
35 _{FP}	33 _{FP} -34 _{FP}	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	
36 _{FP}	(35 _{FP} *1000000)/(18 _{FP} *1000)	Unmeasured Household - PCC	l/h/d	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
37 _{FP}	Input	Water Delivered Measured Household	Mi/d																														
38 _{FP}	Input	Measured Household - USPL	Mi/d																														
39 _{FP}	37 _{FP} -38 _{FP}	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	
40 _{FP}	(39 _{FP} *1000000)/(21 _{FP} *1000)	Measured Household - PCC	l/h/d	#DIV/0!																													

Table WRP4a-FP: Final Planning WRP3 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	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			
			MI/d																															
			MI/d																															
			MI/d																															
7a _{FP}	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 _{FP}	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	0.00		
		from	MI/d																															
		from	MI/d																															
		from	MI/d																															
10a _{FP}	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	0.00		
		to	MI/d																															
		to	MI/d																															
		to	MI/d																															
12a _{FP}	Input as appropriate	Final Planning Potable 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	0.00		
		from	MI/d																															
		from	MI/d																															
		from	MI/d																															
13a _{FP}	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	0.00	0.00	
		to	MI/d																															
		to	MI/d																															
		to	MI/d																															

Company:	Essex & Suffolk Water
Resource Zone Name	Northumbrian Industrial
Resource Zone Number:	1 of 4
Planning Scenario Name:	Dry Year
Chosen Level of Service:	Company Specified

WRP6: Breakdown of Measured Households (Dry Year Baseline)

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	6.5+6.9+6.13+6.17+6.21	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	(6.6+6.10+6.14+6.18+6.22)	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	((6.7*6.6)+(6.10*6.11)+(6.14*6.15)+(6.18*6.19)+(6.22*6.23))/(6.6+6.10+6.14+6.18+6.22)	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!	#DIV/0!
6.4	(Blank)																															

Annual increase

6.5	6.6*6.7	Optant annual increase	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
6.6	Input	Optant annual increase	Properties	000's																											
6.7	Input	Optant annual increase	Occupancy	h/prop																											
6.8	Input	Optant annual increase	pcc	l/h/d																											
6.9	6.10*6.11	New Property annual increase	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
6.10	Input	New Property annual increase	Properties	000's																											
6.11	Input	New Property annual increase	Occupancy	h/prop																											
6.12	Input	New Property annual increase	pcc	l/h/d																											
6.13	6.14*6.15	Change in OCC annual increase	Population	000's	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.14	Input	Change in OCC annual increase	Properties	000's																											
6.15	Input	Change in OCC annual increase	Occupancy	h/prop																											
6.16	Input	Change in OCC annual increase	pcc	l/h/d																											
6.17	6.18*6.19	Selected annual increase	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
6.18	Input	Selected annual increase	Properties	000's																											
6.19	Input	Selected annual increase	Occupancy	h/prop																											
6.20	Input	Selected annual increase	pcc	l/h/d																											
6.21	6.22*6.23	Compulsory metered annual increase	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
6.22	Input	Compulsory metered annual increase	Properties	000's																											
6.23	Input	Compulsory metered annual increase	Occupancy	h/prop																											
6.24	Input	Compulsory metered annual increase	pcc	l/h/d																											

Company:	<u>Essex & Suffolk Water</u>
Resource Zone Name	<u>Northumbrian Industrial</u>
Resource Zone Number:	<u>1 of 4</u>
Planning Scenario Name:	<u>Dry Year</u>
Chosen Level of Service:	<u>Company Specified</u>

WRP7: Household Micro-Component Consumption (Dry Year Baseline)

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:	Essex & Suffolk Water
Resource Zone Name:	Northumbrian Industrial
Resource Zone Number:	1 of 4
Planning Scenario Name:	Dry Year
Chosen Level of Service:	Company Specified

WRP8:Non-Household Sector Consumption (Dry Year Baseline)

Row Ref	Derivation	Description	2003 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	Primary products and metals		MI/d	23.15	21.83	23.57	23.18	22.79	22.41	22.03	21.67	21.31	20.95	20.60	20.26	19.93	19.59	19.26													
8.2	Input	Food, drink and tobacco		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													
8.3	Input	Chemicals and oil refining		MI/d	170.96	175.39	170.97	169.15	167.41	165.72	164.11	162.59	161.11	159.70	158.37	157.10	155.87	154.69	153.58													
8.4	Input	Other manufacturing		MI/d	0.59	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69													
8.5	Input	Public services		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													
8.6	Input	Other sectors		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													
8.7	Input	Unallocated		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													
8.8	Input	Total		MI/d	194.69	197.92	195.23	193.02	190.89	188.82	186.84	184.95	183.11	181.35	179.66	178.04	176.49	174.97	173.53	172.05	170.63	169.22	167.82	166.44	165.07	163.70	162.35	161.02	159.69	158.37	157.06	155.77
8.9	Input																															
8.10	Input																															
8.11	Input																															
8.12	Input																															
8.13	Input																															
8.14	Input																															
8.15	Input																															
8.16	Input																															
8.17	Input																															
8.18	Input																															
8.19	Input																															
8.20	Input																															

Company:	<u>Essex & Suffolk Water</u>
Resource Zone Name	<u>Northumbrian Industrial</u>
Resource Zone Number:	<u>1 of 4</u>
Planning Scenario Name:	<u>Dry Year</u>
Chosen Level of Service:	<u>Company Specified</u>

Table WRP9: Normal Year Final Planning Supply Demand Components

ROW Ref.	DERIVATION	DESCRIPTION	UNITS	Scenario Year 2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	2032-33	2033-34	2034-35	
BASIC RESOURCES NORMAL YEAR																																	
3 _N	Input	Outage Allowance	MI/d	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5 _N	Input	Water Available For Use (own sources)	MI/d	421.46	421.46	421.46	421.46	421.46	421.46	421.46	421.46	421.46	421.46	421.46	421.46	421.46	421.46	421.46	421.46	421.46	421.46	421.46	421.46	421.46	421.46	421.46	421.46	421.46	421.46	421.46	421.46	421.46	
RAW WATER NORMAL YEAR																																	
6 _N	Input	Raw Water Abstracted	MI/d	210.30	210.80	208.41	206.11	203.88	201.74	199.70	197.71	195.81	193.99	192.24	190.56	188.92	187.37	185.77	184.23	182.72	181.21	179.71	178.23	176.76	175.30	173.86	172.42	171.00	169.59	168.19	166.80	166.80	
7 _N	Input	Raw Water Exported (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		
8 _N	Input	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 _N	Input	Raw Water Losses and Operational Use	MI/d	16.65	16.65	16.65	16.65	16.65	16.65	16.65	16.65	16.65	16.65	16.65	16.65	16.65	16.65	16.65	16.65	16.65	16.65	16.65	16.65	16.65	16.65	16.65	16.65	16.65	16.65	16.65	16.65		
10 _N	Input	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 NORMAL YEAR																																	
11 _N	Input	Treatment Works 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		
12 _N	Input	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		
13 _N	Input	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		
14 _N	Input	Distribution Input	MI/d	194.70	195.16	192.95	190.82	188.76	186.77	184.88	183.05	181.28	179.60	177.98	176.43	174.91	173.47	171.99	170.57	169.16	167.77	166.38	165.01	163.65	162.30	160.96	159.63	158.32	157.01	155.71	154.43	154.43	
15 _N	Input	Distribution Losses	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		
16 _N	Input	Distribution System 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		
17 _N	14 _N -15 _N -16 _N	Water Delivered	MI/d	194.70	195.16	192.95	190.82	188.76	186.77	184.88	183.05	181.28	179.60	177.98	176.43	174.91	173.47	171.99	170.57	169.16	167.77	166.38	165.01	163.65	162.30	160.96	159.63	158.32	157.01	155.71	154.43	154.43	
POTABLE WATER DELIVERED NORMAL YEAR																																	
32 _N	Input	Water Taken Unbilled	MI/d																														
33 _N	Input	Water Delivered Unmeasured Household	MI/d																														
34 _N	Input	Unmeasured Household - USPL	MI/d																														
35 _N	33 _N -34 _N	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		
36 _N	Input	Unmeasured Household - PCC	l/h/d																														
37 _N	Input	Water Delivered Measured Household	MI/d																														
38 _N	Input	Measured Household - USPL	MI/d																														
39 _N	37 _N -38 _N	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		
40 _N	Input	Measured Household - PCC	l/h/d																														
41 _N	Input	Water Delivered Unmeasured Non Household	MI/d																														
42 _N	Input	Unmeasured Non Household - USPL	MI/d																														
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		
44 _N	Input	Water Delivered Measured Non Household	MI/d																														
45 _N	Input	Measured Non Household - USPL	MI/d																														
46 _N	44 _N -45 _N	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		
47 _N	Input	Void Properties - USPL	MI/d																														
LEAKAGE NORMAL YEAR																																	
48 _N	Input	Total Leakage	MI/d																														
49 _N	Input	Total Leakage	l/pr/d																														
SUPPLY DEMAND BALANCE NORMAL YEAR																																	
50 _N	5 _N +(6 _N +12 _N)-(7 _N +13 _N)	Total Water Available For Use	MI/d	421.46	421.46	421.46	421.46	421.46	421.46	421.46	421.46	421.46	421.46	421.46	421.46	421.46	421.46	421.46	421.46	421.46	421.46	421.46	421.46	421.46	421.46	421.46	421.46	421.46	421.46	421.46	421.46		
51 _N	Input	Available Headroom	MI/d	243.41	242.95	245.16	247.29	249.35	251.34	253.23	255.06	256.83	258.51	260.13	261.68	263.20	264.64	266.12	267.54	268.95	270.34	271.73	273.10	274.46	275.81	277.15	278.48	279.79	281.10	282.40	283.68	283.68	
52 _N	Input	Target Headroom	MI/d	7.28	7.89	8.49	9.09	9.69	10.30	10.78	11.26	11.74	12.22	12.71	13.19	13.67	14.15	14.63	15.11	15.72	16.32	16.92	17.52	18.13	18.73	19.33	19.93	20.42	20.90	21.38	21.86	22.34	
53 _N	51 _N -52 _N	Supply Demand Balance	MI/d	236.13	235.06	236.67	238.20	239.66	241.04	242.45	243.80	245.09	246.29	247.42	248.50	249.53	250.49	251.49	252.43	253.23	254.02	254.81	255.58	256.33	257.08	257.82	258.54	259.38	260.20	261.02	261.82	261.94	

Company:	<u>Essex & Suffolk Water</u>
Resource Zone Name	<u>Northumbrian Industrial</u>
Resource Zone Number:	<u>1 of 4</u>
Planning Scenario Name:	<u>Normal Year</u>
Chosen Level of Service:	<u>Company Specified</u>