

WRMP24 Option Metrics

Option ID	Option Name	Environmental Benefit	Environmental Benefit	Environmental Benefit	Environmental Benefit	Environmental Benefit	Environmental Benefit	Environmental Benefit	Environmental Benefit	Environmental Benefit	Environmental Benefit	Environmental Benefit	Environmental Benefit	Environmental Benefit	Environmental Benefit	Environmental Benefit	Environmental Benefit	Environmental Benefit	Environmental Benefit	Environmental Benefit
Option ID	Option Name	Environmental Benefit	Environmental Benefit	Environmental Benefit	Environmental Benefit	Environmental Benefit	Environmental Benefit	Environmental Benefit	Environmental Benefit	Environmental Benefit	Environmental Benefit	Environmental Benefit	Environmental Benefit	Environmental Benefit	Environmental Benefit	Environmental Benefit	Environmental Benefit	Environmental Benefit	Environmental Benefit	Environmental Benefit
DESALINATION																				
TWU_LON_H-DE5_ALL_CNO_becton desal 50 p1	Becton Desalination - Phase 1: 50 Mld - Construction	4.00	-24.00			1.01	2.00	2.00	0.00		1.00									
TWU_LON_H-DE5_ALL_CNO_becton desal 100p1	Becton Desalination - Phase 1: 100 Mld - Construction	8.00	-24.00			1.01	2.00	2.00	0.00		1.00									
TWU_LON_H-DE5_ALL_CNO_becton desal 150p1	Becton Desalination - Phase 1: 150 Mld - Construction	6.00	-24.00			1.01	2.00	2.00	0.00		1.00									
TWU_LON_H-DE5_ALL_CNO_becton desal 50p2a	Becton Desalination - Phase 2a: 50 Mld Enhanced	4.00	-24.00			1.01	2.00	2.00	0.00		1.00									
TWU_LON_H-DE5_ALL_CNO_becton desal 100p2a	Becton Desalination - Phase 2a: 100 Mld Enhanced	8.00	-24.00			1.01	2.00	2.00	0.00		1.00									
TWU_LON_H-DE5_ALL_CNO_crossdesal50p1	Crossness Desalination (Blended) - Phase 1: 50 Mld - Construction	4.00	-24.00	-25.83	-147.20	1.01	2.00	2.00	0.00		1.00									
TWU_LON_H-DE5_ALL_CNO_crossdesal100p1	Crossness Desalination (Blended) - Phase 1: 100 Mld - Construction	8.00	-24.00	-25.83	-147.20	1.01	2.00	2.00	0.00		1.00									
TWU_LON_H-DE5_ALL_CNO_crossdesal150p2	Crossness Desalination (Blended) - 50Mld Enhanced	4.00	-23.00	-25.83	-147.20	1.01	2.00	2.00	0.00		1.00									
TWU_LON_H-DE5_ALL_CNO_crossdesal100p2	Crossness Desalination (Blended) - 100Mld Enhanced	8.00	-22.00	-25.83	-147.20	1.01	2.00	2.00	0.00		1.00									
RAW WATER TRANSFERS																				
TWU_STT_H-REU_REI_ALL_p7-300-minworth_115	300: Minworth STW effluent diversion (115Mld) - phase 1	21.00	-47.00	-2448.51	-86.26	1.15	3.00	2.00	3.00		3.00									
TWU_STT_H-REU_REI_ALL_p7-400-minworth_115	400: Minworth STW effluent diversion (115Mld) - phase 1	21.00	-47.00	-2448.51	-86.26	1.15	3.00	2.00	3.00		3.00									
TWU_STT_H-REU_REI_ALL_p7-500-minworth_115	500: Minworth STW effluent diversion (115Mld) - phase 1	21.00	-47.00	-2448.51	-86.26	1.15	3.00	2.00	3.00		3.00									
TWU_STT_H-REU_REI_ALL_p7-300-min_115_p2	Canal: Minworth STW effluent diversion (115Mld) - phase 1	0.00	0.00	0.00	0.00	1.15	3.00	2.00	3.00		3.00									
TWU_STT_H-REU_REI_ALL_p11-300-min_115_p2	300: Minworth STW effluent diversion (115Mld) - phase 2	0.00	0.00	0.00	0.00	1.15	4.00	2.00	0.00		1.00									
TWU_STT_H-REU_REI_ALL_p11-400-min_115_p2	400: Minworth STW effluent diversion (115Mld) - phase 2	0.00	0.00	0.00	0.00	1.15	4.00	2.00	0.00		1.00									
TWU_STT_H-REU_REI_ALL_p11-500-min_115_p2	500: Minworth STW effluent diversion (115Mld) - phase 2	0.00	0.00	0.00	0.00	1.15	4.00	2.00	0.00		1.00									
TWU_STT_H-REU_REI_ALL_p5-300-neth_p35	Canal: Minworth STW effluent diversion (115Mld) - phase 2	13.00	-28.00	-1104.59	-94.70	1.15	3.00	2.00	3.00		3.00									
TWU_STT_H-REU_REI_ALL_p5-400-neth_p35	300: Netheridge STW effluent diversion (35Mld) - Deerhurst Pipeline	13.00	-28.00	-1104.59	-94.70	1.15	3.00	2.00	3.00		3.00									
TWU_STT_H-REU_REI_ALL_p5-500-neth_p35	400: Netheridge STW effluent diversion (35Mld) - Deerhurst Pipeline	13.00	-28.00	-1104.59	-94.70	1.15	3.00	2.00	3.00		3.00									
TWU_STT_H-REU_REI_ALL_p4-300-neth_c35	Canal: Netheridge STW effluent diversion (35Mld) - Cowfold Canals	7.00	-29.00	-1104.59	-94.70	1.15	3.00	2.00	3.00		3.00									
TWU_UTC_H-MMP_UTC_CNO_oceana-cropley	Canal: Oceana - Cropley - Construction	3.00	-31.00	-1172.25	-286.94	1.03	3.00	2.00	1.00		2.00									
TWU_SWX_H-MMP_SWX_CNO_oce-dukes cutxsw	Oxford Canal - Duke's cut (SWOX) - Construction	3.00	-33.00	-2103.51	-550.20	1.03	3.00	2.00	1.00		2.00									
TWU_STT_H-RAB_REI_ALL_p3-300-vymroy_50	300: Vymroy Reservoir river release (50Mld)	22.00	-9.00	0.00	0.00	1.12	3.00	2.00	3.00		3.00									
TWU_STT_H-RAB_REI_ALL_p4-300-vymroy_75	400: Additional 25Mld for a total Vymroy Reservoir river release (75Mld)	0.00	0.00	0.00	0.00	1.12	3.00	2.00	3.00		3.00									
TWU_STT_H-RAB_REI_ALL_p9-300-vymroy_100_b	300: Vymroy Reservoir river release (75 Mld) and 25 Mld of Bypass (105Mld)	21.00	-26.00	-164.31	-89.04	1.12	2.00	3.00	-1.00		3.00									
TWU_STT_H-RAB_REI_ALL_p7-300-vymroy_135_b	300: Vymroy Reservoir river release (75 Mld) and additional 35 to make 60 of Bypass (105Mld)	0.00	0.00	0.00	0.00	1.12	3.00	2.00	3.00		3.00									
TWU_STT_H-RAB_REI_ALL_p8-300-vymroy_155_b	300: Vymroy Reservoir river release (75 Mld) and additional 15 to make 75 of Bypass (105Mld)	0.00	0.00	0.00	0.00	1.12	3.00	2.00	3.00		3.00									
TWU_STT_H-RAB_REI_ALL_p10-300-vymroy_180_b	300: Vymroy Reservoir river release (75 Mld) and additional 30 to make 105 of Bypass (105Mld)	0.00	0.00	0.00	0.00	1.12	3.00	2.00	3.00		3.00									
TWU_STT_H-RAB_REI_ALL_p14-400-vymroy_75	400: Additional 25Mld for a total Vymroy Reservoir river release (75Mld)	0.00	0.00	0.00	0.00	1.12	3.00	2.00	3.00		3.00									
TWU_STT_H-RAB_REI_ALL_p3-400-vymroy_50	400: Vymroy Reservoir river release (50Mld)	22.00	-9.00	0.00	0.00	1.12	3.00	2.00	3.00		3.00									
TWU_STT_H-RAB_REI_ALL_p9-400-vymroy_100_b	300: Vymroy Reservoir river release (75 Mld) and 25 Mld of Bypass (105Mld)	21.00	-26.00	-164.31	-89.04	1.12	2.00	3.00	-1.00		3.00									
TWU_STT_H-RAB_REI_ALL_p7-400-vymroy_135_b	400: Vymroy Reservoir river release (75 Mld) and additional 35 to make 60 of Bypass (105Mld)	0.00	0.00	0.00	0.00	1.12	3.00	2.00	3.00		3.00									
TWU_STT_H-RAB_REI_ALL_p8-400-vymroy_155_b	400: Vymroy Reservoir river release (75 Mld) and additional 15 to make 75 of Bypass (105Mld)	0.00	0.00	0.00	0.00	1.12	3.00	2.00	3.00		3.00									
TWU_STT_H-RAB_REI_ALL_p10-400-vymroy_180_b	400: Vymroy Reservoir river release (75 Mld) and additional 30 to make 105 of Bypass (105Mld)	0.00	0.00	0.00	0.00	1.12	3.00	2.00	3.00		3.00									
TWU_STT_H-RAB_REI_ALL_p14-500-vymroy_50	500: Vymroy Reservoir river release (50Mld)	22.00	-9.00	0.00	0.00	1.12	3.00	2.00	3.00		3.00									
TWU_STT_H-RAB_REI_ALL_p4-500-vymroy_75	500: Additional 25Mld for a total Vymroy Reservoir river release (75Mld)	0.00	0.00	0.00	0.00	1.12	3.00	2.00	3.00		3.00									
TWU_STT_H-RAB_REI_ALL_p9-500-vymroy_100_b	500: Vymroy Reservoir river release (75 Mld) and 25 Mld of Bypass (105Mld)	21.00	-26.00	-164.31	-89.04	1.12	2.00	3.00	-1.00		3.00									
TWU_STT_H-RAB_REI_ALL_p7-500-vymroy_135_b	500: Vymroy Reservoir river release (75 Mld) and additional 35 to make 60 of Bypass (105Mld)	0.00	0.00	0.00	0.00	1.12	3.00	2.00	3.00		3.00									
TWU_STT_H-RAB_REI_ALL_p8-500-vymroy_155_b	500: Vymroy Reservoir river release (75 Mld) and additional 15 to make 75 of Bypass (105Mld)	0.00	0.00	0.00	0.00	1.12	3.00	2.00	3.00		3.00									
TWU_STT_H-RAB_REI_ALL_p10-500-vymroy_180_b	500: Vymroy Reservoir river release (75 Mld) and additional 30 to make 105 of Bypass (105Mld)	0.00	0.00	0.00	0.00	1.12	3.00	2.00	3.00		3.00									
TWU_STT_H-RAB_REI_ALL_p14-300-vymroy_50	300: Vymroy Reservoir river release (50Mld)	22.00	-9.00	0.00	0.00	1.12	3.00	1.00	2.00		2.00									
TWU_STT_H-RAB_REI_ALL_c5-300-vymroy_75	Canal: Additional 25Mld for a total Vymroy Reservoir river release (75Mld)	0.00	0.00	0.00	0.00	1.12	3.00	1.00	2.00		2.00									
TWU_STT_H-RAB_REI_ALL_c9-300-vymroy_100_b	Canal: Vymroy Reservoir river release (75 Mld) and 25 Mld of Bypass (105Mld)	21.00	-26.00	-164.31	-89.04	1.12	2.00	3.00	-1.00		3.00									
TWU_STT_H-RAB_REI_ALL_c5-300-vymroy_135_b	Canal: Vymroy Reservoir river release (75 Mld) and additional 35 to make 60 of Bypass (105Mld)	0.00	0.00	0.00	0.00	1.12	3.00	2.00	3.00		3.00									
TWU_STT_H-RAB_REI_ALL_c9-300-vymroy_155_b	Canal: Vymroy Reservoir river release (75 Mld) and additional 15 to make 75 of Bypass (105Mld)	0.00	0.00	0.00	0.00	1.12	3.00	2.00	3.00		3.00									
TWU_STT_H-RAB_REI_ALL_c10-300-vymroy_180_b	Canal: Vymroy Reservoir river release (75 Mld) and additional 30 to make 105 of Bypass (105Mld)	0.00	0.00	0.00	0.00	1.12	3.00	2.00	3.00		3.00									
WATER REUSE																				
TWU_KGV_H-REU_REI_CNO_deephams reuse 46.5	Deephams Reuse - 46.5 Mld, direct to KGV - Construction	4.00	-18.00	-140.19	-12.34	1.15	4.00	2.00	2.57		1.00									
TWU_KGV_H-REU_REI_CNO_deephams reuse 46.5b	Deephams Reuse - 46.5 Mld, to TLT - Construction	4.00	-17.00			1.15	4.00	2.00	2.00		1.00									
TWU_WJ_H-REU_REI_ALL_reuse mogden 1 sewer	Reuse Mogden South Sewer	7.00	-30.00	-9762.78	-40.86	1.15	4.00	2.00	1.00		1.00									
TWU_WJ_H-REU_REI_CNO_reuse mogden 50 p1	Reuse Mogden 50 MLD Phase 1 - Construction	7.00	-30.00	-9762.78	-196.88	1.15	4.00	2.00	1.71		1.00									
TWU_WJ_H-REU_REI_CNO_reuse mogden 100 p1	Reuse Mogden 100 MLD Phase 1 - Construction	11.00	-30.00	-9762.78	-196.88	1.15	4.00	2.00	1.71		1.00									
TWU_WJ_H-REU_REI_ALL_reuse mogden 50 p2	Reuse Mogden 50 MLD Phase 2	7.00	-30.00	-9762.78	-196.88	1.15	4.00	2.00	1.71		1.00									
TWU_WJ_H-REU_REI_CNO_reuse mogden 100 p2	Reuse Mogden 100 MLD Phase 2	11.00	-30.00	-9762.78	-196.88	1.15	4.00	2.00	1.71		1.00									
TWU_KGV_H-REU_REI_CNO_reuse becton 50	Reuse Becton 50 MLD - Construction	7.00	-33.00	0.00	-2.71	1.15	4.00	2.00	1.71		1.00									
TWU_KGV_H-REU_REI_CNO_reuse becton 100	Reuse Becton 100 MLD - Construction	11.00	-33.00	0.00	-2.71	1.15	4.00	2.00	1.71		1.00									
TWU_KGV_H-REU_REI_CNO_reuse becton 150	Reuse Becton 150 MLD - Construction	11.00	-33.00	0.00	-2.71	1.15	4.00	2.00	1.71		1.00									
TWU_KGV_H-REU_REI_ALL_reuse becton 50 p2	Reuse Becton 50 MLD Enhanced	7.00	-33.00	0.00	-2.71	1.15	4.00	2.00	1.71		1.00									
TWU_KGV_H-REU_REI_ALL_reuse becton 100 p2	Reuse Becton 100 MLD Enhanced	11.00	-33.00	0.00	-2.71	1.15	4.00	2.00	1.71		1.00									
TWU_KGV_H-REU_REI_ALL_reuse becton 150 p2	Reuse Becton 150 MLD Enhanced	11.00	-33.00	0.00	-2.71	1.15	4.00	2.00	1.71		1.00									
DIRECT RIVER ABSTRACTION																				
TWU_TED_H-RAB_REI_CNO_teddington dra 50	Teddington DRA 50 MLD - Construction	7.00	-17.00			1.12	2.00	3.00	-1.00		3.00									
TWU_TED_H-RAB_REI_CNO_teddington dra 75	Teddington DRA 75 MLD - Construction	11.00	-17.00			1.12	2.00	3.00	-1.00		3.00									
RAW WATER PURCHASE																				
TWU_LON_H-OTH_ALL_didcot purchase	Didcot Raw Water Purchase					1.00	4.00	3.00	9.00		3.00									

WRMP24 Option Metrics

Option ID	Option Name	Environmental Benefit	Environmental Cost	Environmental Natural Capital	Environmental Biodiversity Net Gain	Social Customer Preference	Resilience - Reliability R1 – Uncertainty of supply/demand benefit	Resilience - Reliability R3 – Risk of failure of planned service due to above physical Catchment/rain water quality risks (incl. climate change)	Resilience - Reliability R6 – Capacity of catchment	Resilience - Reliability R7 – Risk of failure of planned service due to exceptional improvements to soil health	Resilience - Reliability R8 – Operational company and flexibility	Resilience - Adaptability A1 – Catchment water demand restrictions	Resilience - Reliability E1 – Scalability and modularity of proposed changes	Resilience - Reliability E2 – Reduced carbon footprint	Resilience - Reliability E3 – Reliance on external bodies to deliver changes	Resilience - Reliability E4 – Collaborative landscape management	Reliability - Resilience
INTER COMPANY TRANSFERS																	
TWU_GJI_H-TR_R2S_ALL_westgwa	SouthEast Water to Guildford	1.00	-14.00	-1980.56	-183.02	1.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TWU_SWX_H-MP_SWX_ALL_westessexworlax	Wessex Water to SWOX (Fauldons)	1.00	-12.00	-1.70	-42.79	1.03	5.00	2.00	0.00	2.00	0.00	0.00	2.00	3.00	1.00	0.00	0.00
AFW_KEM_H-OTH_ALL_con_lon_50_ph1	Conjunctive Benefit to London of a Pinn WTW Phase 1 (50M/d)					1.00	4.00	4.00	0.00	3.00	2.00	0.00	3.00	3.00	3.00	0.00	0.00
AFW_KEM_H-OTH_ALL_con_lon_50_ph2	Conjunctive Benefit to London of a Pinn WTW Phase 2 (50M/d)					1.00	4.00	4.00	0.00	3.00	2.00	0.00	3.00	3.00	3.00	0.00	0.00
TWU_STT_H-TR_STR_ALL_atts-eo-c1	STT-SERRO Link C1	1.00	-2.00	0.00	-0.24	1.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TWU_STT_H-TR_STR_ALL_atts-eo-c2	STT-SERRO Link C2	1.00	-2.00	0.00	-0.24	1.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TWU_STT_H-TR_STR_ALL_atts-eo-p1	STT-SERRO Link P1	1.00	-2.00	0.00	-0.24	1.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TWU_STT_H-TR_STR_ALL_atts-eo-p2	STT-SERRO Link P2	1.00	-2.00	0.00	-0.24	1.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INTER ZONAL TRANSFERS																	
TWU_SWA_H-TR_HEN_ALL_henley-wsx2.4	Henley to SWA – 2.4 M/d	1.00	-11.00	-469.74	-23.57	1.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TWU_SWA_H-TR_HEN_ALL_henley-wsx5	Henley to SWA – 5 M/d	2.00	-12.00	-469.74	-23.57	1.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TWU_SWA_H-TR_HEN_ALL_henley-wsx2.4	Henley to SWOX – 2.4 M/d	2.00	-9.00	-893.97	-83.43	1.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TWU_SWA_H-TR_HEN_ALL_henley-wsx5	Henley to SWOX – 5 M/d	1.00	-15.00	-893.97	-83.43	1.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TWU_SWX_H-TR_KVZ_ALL_kennet-wsx2.3	Kennet Valley to SWOX – 2.3 M/d	1.00	-16.00	-1208.02	-56.53	1.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TWU_SWX_H-TR_KVZ_ALL_kennet-wsx6.7	Kennet Valley to SWOX – 6.7 M/d	1.00	-13.00	-1208.02	-56.53	1.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GROUNDWATER																	
TWU_LON_H-GRW_ALL_CNO_kidbrooke slars	Kidbrooke Aquifer Recharge/Aquifer Storage and Recovery (SLARS1) - Construction	2.00	-19.00			1.17	1.00	2.00	0.00	3.00	3.00	4.00	2.00	3.00			
TWU_LON_H-GRW_ALL_streamth ar	Streamtham Aquifer Recharge (SLARS2)	1.00	-9.00			1.17	1.00	2.00	0.00	3.00	3.00	4.00	3.00	3.00			
TWU_LON_H-GRW_ALL_CNO_merton ar	Merton Aquifer Recharge (SLARS3) - Construction	1.00	-15.00			1.17	1.00	2.00	0.00	3.00	3.00	4.00	2.00	3.00			
TWU_LON_H-GRW_REJ_ALL_ashorntonkibtry	ASR Norton Kirby	3.00	-15.00	-38.66	-6.94	1.17	1.00	2.00	0.00	3.00	3.00	4.00	3.00	3.00			

WRMP24 Option Metrics

Option ID	Option Name	Environmental Environmental Benefits	Environmental Environmental Disbenefits	Environmental Natural Capital	Environmental Indirect Net Gain	Social Customer Preference	Resilience: Reliability R1 – supply/demand balance	Resilience: Reliability R2 – Risk of failure of planned service due to other physical changes (incl. climate change)	Resilience: Reliability R5 – Risk of failure of planned service due to other physical changes (incl. climate change)	Resilience: Reliability R6 – Capacity of treatment services	Resilience: Reliability R7 – Risk of failure of planned service due to operational improvements to air health	Resilience: Reliability R8 – Operational complexity and flexibility	Resilience: Reliability R9 – Operational complexity and flexibility	Resilience: Reliability E1 – Flexibility and modularity of proposed changes	Resilience: Reliability E2 – Intervention lead times	Resilience: Reliability E3 – Reliance on external bodies	Resilience: Reliability E4 – Collaborative management	Resilience: Reliability E5 – catchment resilience	
TWU_LON_H-TRF_LON_ALL_Littleton int-qm	Littleton intake capacity increase with transfer to Queen Mary	8.00	-24.00				1.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
TWU_SWA_H-TRF_UTC_ALL_medmenham intake S3	Medmenham intake - S3	8.00	-13.00	-80.64	-2.06	1.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
TWU_SWA_H-TRF_UTC_ALL_medmenham intake 80	Medmenham intake - 80	8.00	-19.00	-80.64	-2.06	1.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
TWU_WJ2_H-TRF_WJ1_CNO_qm-res-keptonen wlvw	Additional conveyance from Queen Mary Reservoir to Keptonen WTW - Construction	8.00	-13.00	-180.03	-20.32	1.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
TWU_LON_H-TRF_LON_CNO_surbiton int-walton	Surbiton intake capacity increase with transfer to Walton intst channel - Construction	8.00	-16.00	-4.61	-1.34	1.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
TWU_LON_H-TRF_LON_CNO_tlt upgrade - row	TLT upgrade to remove existing constraints to maximise transfer capacity - Construction	8.00	-18.00			1.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
TWU_STT_H-MP_STT_CNO_sttpe3300(m)	Raw Water Transfer Deerhurst to Culham 300 Ml/d (Lon only) - Construction					1.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	
TWU_UTT_H-RAB_RE1_ALL_p3-300-unsupported	300 Unsupported flow	21.00	-55.00	-1401.36	-187.39	1.12	2.00	3.00	-1.00	3.00	3.00	3.00	3.00	3.00	3.00	5.00	3.00	3.00	
TWU_STT_H-MP_STT_CNO_sttpe400(m)	Raw Water Transfer Deerhurst to Culham 400 Ml/d (Lon only) - Construction					1.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	
TWU_UTT_H-RAB_RE1_ALL_p1-400-unsupported	400 Unsupported flow	21.00	-55.00	-1401.36	-187.39	1.12	2.00	3.00	-1.00	3.00	3.00	3.00	3.00	3.00	3.00	5.00	3.00	3.00	
TWU_STT_H-MP_STT_CNO_sttpe500(m)	Raw Water Transfer Deerhurst to Culham 500 Ml/d (Lon only) - Construction					1.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	
TWU_UTT_H-RAB_RE1_ALL_p1-500-unsupported	500 Unsupported flow	21.00	-55.00	-1401.36	-187.39	1.12	2.00	3.00	-1.00	3.00	3.00	3.00	3.00	3.00	3.00	5.00	3.00	3.00	
TWU_STT_H-MP_STT_CNO_sttpe3300(m)	Cotswold Canal 300 Ml/d (Do Min) - with treatment - Construction					1.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	
TWU_UTT_H-RAB_RE1_ALL_c1-300-unsupported	Canal Unsupported flow	25.00	-74.00	-1401.36	-187.39	1.12	2.00	3.00	-1.00	3.00	3.00	3.00	3.00	3.00	3.00	5.00	3.00	3.00	
CATCHMENT MANAGEMENT																			
TWU_LON_RG-CAT-ALL-ALL-om_p1_darent cray	Portfolio 1 (Standard): Darent and Cray					1.32	1.00	3.71	1.71	0.01	4.00	0.00	4.36	4.00	4.29	5.00	2.00	0.01	0.01
WATER TREATMENT WORKS																			
TWU_LON_H-ROC_WT1_CNO_eastlondonwtw100p1	East London WTW - 100 P1 - Construction	8.00	-21.00		1.46	5.00	3.00	0.00	0.00	3.00	3.00	3.00	3.00	3.00	1.00	3.00	3.00	3.00	
TWU_LON_H-ROC_WT1_CNO_eastlondonwtw150	East London WTW - 150 - Construction	8.00	-21.00		1.46	5.00	3.00	0.00	0.00	3.00	3.00	3.00	3.00	3.00	1.00	3.00	3.00	3.00	
TWU_LON_H-ROC_WT1_CNO_eastlondonwtw200	East London WTW - 200 - Construction	8.00	-21.00		1.46	5.00	3.00	0.00	0.00	3.00	3.00	3.00	3.00	3.00	1.00	3.00	3.00	3.00	
TWU_LON_H-ROC_WT1_CNO_eastlondonwtw300	East London WTW - 300 - Construction	8.00	-21.00		1.46	5.00	3.00	0.00	0.00	3.00	3.00	3.00	3.00	3.00	1.00	3.00	3.00	3.00	
TWU_LON_H-ROC_WT2_ALL_eastlondonwtw100p2	East London WTW - 100 Enhanced	8.00	-17.00		1.46	5.00	3.00	0.00	0.00	3.00	3.00	3.00	3.00	3.00	2.00	3.00	3.00	3.00	
TWU_LON_H-ROC_WT1_CNO_kempstonwtw100 p1	Kempston - 100 Phase 1 - Construction	9.00	-17.00	-797.13	-135.77	1.46	5.00	3.00	0.00	3.00	3.00	3.00	3.00	3.00	1.00	3.00	3.00	3.00	
TWU_LON_H-ROC_WT1_CNO_kempstonwtw150	Kempston - 150 - Construction	9.00	-17.00	-797.13	-135.77	1.46	5.00	3.00	0.00	3.00	3.00	3.00	3.00	3.00	1.00	3.00	3.00	3.00	
TWU_LON_H-ROC_WT1_CNO_kempstonwtw200	Kempston - 200 - Construction	9.00	-21.00	-797.13	-135.77	1.46	5.00	3.00	0.00	3.00	3.00	3.00	3.00	3.00	1.00	3.00	3.00	3.00	
TWU_LON_H-ROC_WT2_ALL_kempstonwtw100 p2	Kempston - 100 Enhanced	9.00	-17.00	-1244.10	-189.14	1.46	5.00	3.00	0.00	3.00	3.00	3.00	3.00	3.00	2.00	3.00	3.00	3.00	
TWU_SWA_H-ROC_WT1_CNO_medmenhamwtw ph1	Medmenham WTW Ph1 - Construction	3.00	-3.00	-1389.95	-32.96	1.46	5.00	3.00	0.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	
TWU_SWA_H-ROC_WT2_ALL_medmenhamwtw ph2	Medmenham WTW Ph2 Enhanced	3.00	-3.00	-1389.95	-32.96	1.46	5.00	3.00	0.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	
TWU_SWA_H-ROC_WT1_CNO_abingdon wlvw ph1	Abingdon WTW Ph1 - Construction	1.00	-12.00	-1342.59	-15.36	1.46	5.00	3.00	0.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	
TWU_SWA_H-ROC_WT2_ALL_abingdon wlvw ph2_rsp_1	Abingdon WTW Enhanced	1.00	-12.00	-1342.59	-15.36	1.46	5.00	3.00	0.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	
TWU_SWA_H-ROC_WT1_ALL_radcotwlvw	Radcot WTW Phase 1	1.00	-13.00	-1143.34	-48.52	1.46	5.00	3.00	0.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	
TWU_SWA_H-ROC_WT2_ALL_radcotwlvwenhanced	Radcot WTW Enhanced Phase	1.00	-13.00	-1143.34	-48.52	1.46	5.00	3.00	0.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	
NETWORK REINFORCEMENT																			
TWU_LON_H-TRF_LON_CNO_becton-coppermills	Becton to Coppermills tunnel (treated) - Construction	8.00	-21.00		1.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
TWU_LON_H-ROC_NET_CNO_crosses-becton	Crosses to Becton tunnel (treated) - Construction	8.00	-17.00		1.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
TWU_SWA_H-TRF_SWA_ALL_awkswa72	SWOX/SAW72 (Abingdon to north SWA)	8.00	-16.00	-1977.51	-247.64	1.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
TWU_SWA_H-TRF_SWA_ALL_awkswa8	SWOX to SWA (Abingdon WTW to Long Crendon to supply SWA)	4.00	-16.00	-1227.90	-240.45	1.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
TWU_LON_H-ROC_NET_CNO_hampton-battersea	Replaces pump infrastructure at Battersea	8.00	-18.00		1.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
TWU_HON_H-ROC_NET_CNO_copmills-honoark	TWRM extension - Coppermills to Honor Oak - Construction	8.00	-18.00		1.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
TWU_LON_H-ROC_NET_ALL_twrw-h-coppermills	TWRM level controlled by new header tank and pumping station at Coppermills WTW	1.00	-22.00		1.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
TWU_LON_H-ROC_NET_CNO_hampton-battersea	TWRM extension - Hampton to Battersea - Construction	8.00	-17.00		1.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
TWU_WJ2_H-ROC_NET_CNO_wj2-shaft-keptonen	New shaft on the TWRM at Keptonen (NET-TWRM-ECM) - Construction	8.00	-13.00		1.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
TWU_LON_H-TRF_LON_ALL_newriverhead pump 4	Replace New River Head Pump	8.00	-5.00		1.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
TWU_KVZ_H-TRF_T2S_ALL_t2st cul to spen	T2ST Culham to Spenn transfer	1.00	-22.00	-4.35	-4.07	1.17													
TWU_KVZ_H-TRF_T2S_ALL_t2st cul to tobnay	T2ST Culham to Fobney transfer	4.00	-20.00	-221.04	-58.76	1.17													
DEMAND OPTIONS																			
TWU_LON_EF-LKR-ALL-ALL_dmp lon deliverable	Deliverable Demand Reduction Programme - LON	7.00	-4.00		2.00	2.00	3.06			2.14		3.00	1.75	4.84	1.63	3.83			
TWU_SWA_EF-LKR-ALL-ALL_dmp swa deliverable	Deliverable Demand Reduction Programme - SWOX	7.00	-4.00		2.00	2.00	3.22			2.00		3.00	1.94	4.50	1.79	3.92			
TWU_GUI_EF-LKR-ALL-ALL_dmp gui deliverable	Deliverable Demand Reduction Programme - GUI	7.00	-5.00		2.00	2.00	2.86			2.26		3.00	1.98	4.84	1.70	3.82			
TWU_SWA_EF-LKR-ALL-ALL_dmp swa deliverable	Deliverable Demand Reduction Programme - SWA	7.00	-4.00		2.00	2.00	3.28			2.85		3.00	1.78	4.48	1.68	3.92			
TWU_KVZ_EF-LKR-ALL-ALL_dmp kvz deliverable	Deliverable Demand Reduction Programme - KVA	7.00	-4.00		2.00	2.00	3.16			2.04		3.00	1.93	4.62	1.67	3.88			
TWU_HEN_EF-LKR-ALL-ALL_dmp hen deliverable	Deliverable Demand Reduction Programme - HEN	7.00	-5.00		2.00	2.00	3.38			1.83		3.00	1.90	4.46	1.69	4.00			
TWU_LON_EF-LKR-ALL-ALL_dmp lon high	High Demand Reduction Programme - LON	28.00	-4.00		2.00	1.00	2.99			2.36		3.00	1.76	4.85	1.65	3.80			
TWU_SWA_EF-LKR-ALL-ALL_dmp swa high	High Demand Reduction Programme - SWOX	7.00	-4.00		2.00	2.00	3.17			2.02		3.00	1.94	4.52	1.80	3.98			
TWU_GUI_EF-LKR-ALL-ALL_dmp gui high	High Demand Reduction Programme - GUI	28.00	-4.00		2.00	2.00	2.74			2.26		3.00	1.99	4.86	1.73	3.75			
TWU_SWA_EF-LKR-ALL-ALL_dmp swa high	High Demand Reduction Programme - SWA	7.00	-4.00		2.00	1.00	3.11			1.93		3.00	1.81	4.54	1.71	3.84			
TWU_KVZ_EF-LKR-ALL-ALL_dmp kvz high	High Demand Reduction Programme - KVA	7.00	-7.00		2.00	1.00	3.06			2.15		3.00	1.91	4.64	1.79	3.83			
TWU_HEN_EF-LKR-ALL-ALL_dmp hen high	High Demand Reduction Programme - HEN	28.00	-5.00		2.00	1.00	3.27			2.00		3.00	1.91	4.50	1.71	3.96			
TWU_LON_EF-LKR-ALL-ALL_dmp lon high plus	High Plus Demand Reduction Programme - LON	86.00	-4.00		2.00	1.00	4.03			2.39		3.00	1.77	4.87	1.61	3.77			
TWU_SWA_EF-LKR-ALL-ALL_dmp swa high plus	High Plus Demand Reduction Programme - SWOX	28.00	-4.00		2.00	1.00	2.98			2.22		3.00	1.95	4.58	1.82	3.80			
TWU_GUI_EF-LKR-ALL-ALL_dmp gui high plus	High Plus Demand Reduction Programme - GUI	56.00	-5.00		2.00	1.00	2.79			2.25		3.00	1.98	4.87	1.75	3.77			
TWU_SWA_EF-LKR-ALL-ALL_dmp swa high plus	High Plus Demand Reduction Programme - SWA	28.00	-4.00		2.00	1.00	3.15			1.93		3.00	1.83	4.59	1.74	3.88			
TWU_KVZ_EF-LKR-ALL-ALL_dmp kvz high plus	High Plus Demand Reduction Programme - KVA	28.00	-4.00		2.00	1.00	3.09			2.08		3.00	1.93	4.67	1.81	3.83			
TWU_HEN_EF-LKR-ALL-ALL_dmp hen high plus	High Plus Demand Reduction Programme - HEN	28.00	-5.00		2.00	1.00	3.42			2.00		3.00	1.93	4.60	1.77	4.02			