

ANNUAL RETURN INFORMATION REQUIREMENT

SECTION E : OPERATING COSTS AND EFFICIENCY
Table E3: PPP Project Analysis

Line Ref.	Description	Ofwat Ref R 07	WICS Reference AR 06	Units	Field Type	10	20	30	40	50	60	70	80	90	100	110	120	130	140	
						Highland CG	Highland CG	Tay CG	Aberdeen CG	Aberdeen CG	Aberdeen CG	Aberdeen CG	Moray Coast CG	Moray Coast CG	Moray Coast CG	AVSE CG	AVSE CG	AVSE CG	AVSE CG	
Project Data						R. William	Inverness	Hatton	Nigg	Persley	Peterhead	Fraserburgh	Lossiemouth	Buckie	Banff/Macduff	Seafield	Newbridge	East Calder	Blackburn	
E3.0	Name	-	E3.0		I	7.8 B3	55.6 B3	185.2 B3	200.7 B3	30.1 B3	21.9 B3	17.1 B3	33.7 B3	12.6 B3	10.1 B3	558.6 B3	22.5 B3	70.1 B3	8.3	
E3.1	Annual average resident connected population	-	E3.1	000	I/C	0.7 B3	1.7 B3	1.8 B3	2.6 B3	0.4 B3	0.5 B3	0.3 B3	0.7 B3	0.4 B3	0.2 B3	6.8 B3	0.1 B3	0.3 B3	0.1	
E3.2	Annual average non-resident connected population	-	E3.2	000	I/C	16 B3	85 B3	236 B3	277 B3	40 B3	35 B3	35 B3	41 B3	22 B3	12 B3	782 B3	37 B3	106 B3	13	
E3.3	Population equivalent of total load received	-	E3.5	000	I/C															
Scope of Works						1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	0
E3.4	Sewerage	-	E3.7	1/0	I	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1
E3.5	Sewage Treatment	-	E3.8	1/0	I	0 A1	1 A1	1 A1	1 A1	0 A1	0 A1	0 A1	1 A1	0 A1	0 A1	1 A1	1 A1	1 A1	1 A1	0
E3.6	Sewage Treatment	-	E3.9	1/0	I	1 A1	1 A1	1 A1	0 A1	0 A1	0 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	0
E3.7	Terminal Pumping Station	-	E3.10	1/0	I	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0
E3.8	Other (state details)	-	E3.11	1/0	I	100 A1	100 A1	100 A1	0 N	100 A1	0 N	0 N	100 A1	100 A1	100 A1	375 A1	100 A1	100 A1	100	
Sewage Treatment - Effluent Consent Standard						25 A1	25 A1	25 A1	25 A1	25 A1	25 A1	25 A1	25 A1	25 A1	25 A1	25 A1	25 A1	15 A1	15 A1	10
E3.9	Suspended solids consent	-	E3.17	mg/l	I	125 A1	125 A1	125 A1	125 A1	125 A1	125 A1	125 A1	125 A1	125 A1	125 A1	125 A1	125 A1	125 A1	125 A1	125
E3.10	BOD consent	-	E3.18	mg/l	I	0 N	0 N	50 A1	0 N	35 A1	0 N	0 N	0 N	0 N	0 N	0 N	0 N	7 A1	2 A1	2
E3.11	COD consent	-	E3.19	mg/l	I	0 N	0 N	0 N	0 N	2 A1	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0.5 A1	0.5 A1	0.5
E3.12	Ammonia consent	-	E3.20	mg/l	I	100 A1	98 A1	100 A1	100 A1	97 A1	100 A1	100 A1	97 A1	100 A1	100 A1	100 A1	100 A1	100 A1	100 A1	100
E3.13	Phosphate consent	-	E3.21	mg/l	I															
E3.14	Compliance with effluent consent standard	-	E3.22	%	I															
Treatment Works Category						1 A1	1 A1	1 A1	1 A1	0 A1	1 A1	1 A1	0 A1	0 A1	0 A1	1 A1	1 A1	1 A1	1 A1	1
E3.15	Primary	-	E3.25	1/0	I	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	0
E3.16	Secondary activated sludge	-	E3.26	1/0	I	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	1
E3.17	Secondary biological	-	E3.27	1/0	I	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0
E3.18	Tertiary A1	-	E3.28	1/0	I	0 A1	1 A1	0 A1	0 A1	1 A1	0 A1	1 A1	0 A1	0 A1	1 A1	1 A1	1 A1	1 A1	1 A1	0
E3.19	Tertiary A2	-	E3.29	1/0	I	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0
E3.20	Tertiary B1	-	E3.30	1/0	I	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0
E3.21	Tertiary B2	-	E3.31	1/0	I	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	1
Sewerage Data						4.3 B3	10.7 B3	40.7 B3	35.7 B3	0.4 B3	1.0 B3	1.8 B3	31.6 B3	18.5 B3	9.5 B3	44.0 B3	3.1 B3	0 N	0	
E3.22	Total length of sewer	-	E3.47	km	I	4 A1	4 A1	16 A1	14 A1	0 N	0 N	1 A1	7 A1	12 A1	10 A1	7 A1	2 A1	0 N	0	
E3.23	Length of critical sewer	-	E3.48	km	I	65992 B3	247622 B3	2466582 B3	192871 B3	0 N	0 N	16848 B3	236563 B3	44240 B3	239242 B3	238723 B3	27043 B3	0 N	0	
E3.24	Number of pumping stations	-	E3.49	nr	I	59 B3	806 B3	6450 B3	2103 B3	0 N	0 N	0 N	325 B3	525 B3	571 B3	713 B3	26 B3	0 N	0	
E3.25	Capacity of pumping stations (m ³ /d)	-	E3.50	m ³ /day	I	2 A1	1 A1	7 A1	12 A1	0 N	0 N	4 A1	8 A1	7 A1	6 A1	1 A1	1 A1	0 N	0	
E3.26	Capacity of pumping stations (kw)	-	E3.51	kw	I	4821 B3	34214 B3	209002 B3	96362 B3	0 N	0 N	0 N	65232 B3	23599 B3	115949 B3	116035 B3	10109 B3	0 N	0	
E3.27	Number of combined pumping stations	-	E3.52	nr	I	0 N	2 A1	6 A1	2 N	0 N	0 N	1 A1	1 A1	1 A1	1 A1	0 N	0 N	0 N	0	
E3.28	Capacity of combined pumping stations (m ³ /d)	-	E3.53	m ³ /day	I	0 N	209088 B3	2105741 B3	96509 N	0 N	0 N	142560 B3	6394 B3	56419 B3	0 N	0 N	0 N	0 N	0	
E3.29	Number of stormwater pumping stations	-	E3.54	nr	I	2 A1	1 A1	9 A1	8 A1	0 N	0 N	1 A1	4 A1	10 A1	8 A1	9 A1	1 A1	0 N	0	
E3.30	Capacity of stormwater pumping stations (m ³ /d)	-	E3.55	m ³ /day	I	2 A1	1 A1	9 A1	8 A1	0 N	0 N	1 A1	4 A1	10 A1	8 A1	9 A1	1 A1	0 N	0	
E3.31	Number of combined sewer overflows	-	E3.56	nr	I															
E3.32	Number of combined sewer overflows (screened)	-	E3.57	nr	I															
Sewage Treatment and Disposal Data						0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0
E3.33	Farmland Untreated	-	E3.58	ttts	I/C	0 N	1.395 B4	0.245 B4	0.0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0
E3.34	Farmland Conventional	-	E3.59	ttts	I/C	0 N	0.010 B4	4.017 B4	9.478 B4	0 N	0 N	0 N	2.657 B4	0 N	0 N	2.925 B4	2.077 B4	0 N	0 N	0
E3.35	Farmland Advanced	-	E3.60	ttts	I/C	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0
E3.36	Incineration	-	E3.62	ttts	I/C	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0
E3.37	Landfill	-	E3.61	ttts	I/C	0 N	0 N	0.118 B4	0 N	0 N	0 N	0 N	0.011 B4	0 N	0 N	0.026 B4	0 N	0 N	0 N	0
E3.38	Composted	-	E3.63	ttts	I/C	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0
E3.39	Land Reclamation	-	E3.64	ttts	I/C	0 N	0 N	0.308 B4	0 N	0 N	0 N	0 N	0.413 B4	0 N	0 N	13.431 B4	0.1 B4	0 N	0	
E3.40	Other	-	E3.65	ttts	I/C	0 N	0 N	0 N	0.073 B4	0 N	0 N	0 N	0 N	0 N	0 N	0.820 B4	0.083 B4	0 N	0	

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	150	160	170	180	190	200	210	220	230	240	250	199
	AVSE	Levenmouth	Dalmuir	Daldowie	MS	MS	MS					Total
CG	CG	CG	CG	CG	CG	CG	CG	CG	CG	CG	CG	CG

	Whitburn	Levenmouth	Dalmuir	Daldowie	Meadowhead	Sevenston	Inverclyde						
B3	11.4 B3	119.0 B3	407.4 B3	0.0 A1	188.8 B3	70.5 B3	76.6 B3						2108.0
B3	0.1 B3	0.7 B3	3.1 B3	0.0 A1	2.1 B3	0.4 B3	0.4 B3						23.4
B3	12 B3	215 B3	550 B3	0 A1	366 B3	111 B3	88 B3						3080

A1	1 A1	1 A1	0 A1	1 A1	0 A1	0 A1	1 A1						
A1	1 A1	1 A1	1 A1	0 A1	1 A1	1 A1	1 A1						
A1	0 A1	1 A1	1 A1	1 A1	1 A1	0 A1	0 A1						
A1	1 A1	1 A1	0 A1	0 A1	0 A1	0 A1	0 A1						
A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1						

A1	100 A1	100 A1	0 N	0 N	500 A1	0 N	100 A1						
A1	10 A1	25 A1	25 A1	0 N	25 A1	25 A1	25 A1						
A1	125 A1	125 A1	125 A1	0 N	125 A1	125 A1	125 A1						
A1	1 A1	0 N	20 A1	0 N	50 A1	50 A1	0 N						
A1	0.5 A1	0 N	0 N	0 N	0 N	0 N	0 N						
A1	100 A1	100 A1	98 A1	0 N	100 A1	100 A1	98 A1						

A1	1 A1	0 A1	1 A1	0 N	0 A1	1 A1	1 A1						
A1	1 A1	1 A1	1 A1	0 N	1 A1	1 A1	1 A1						
A1	0 A1	0 A1	0 A1	0 N	0 A1	0 A1	0 A1						
A1	1 A1	0 A1	0 A1	0 N	0 A1	0 A1	0 A1						
A1	1 A1	1 A1	0 A1	0 N	1 A1	0 A1	0 A1						
A1	0 A1	0 A1	0 A1	0 N	0 A1	0 A1	0 A1						
A1	0 A1	0 A1	0 A1	0 N	0 A1	0 A1	0 A1						

N	0 N	8.0 B3	0 N	11.8 B3	0 N	0 N	0.9 B3						
N	0 N	8.0 B3	0 N	11.8 B3	0 N	0 N	0.9 B3						
N	1 A1	8 A1	0 N	1 A1	0 N	0 N	0 N						
N	3888 B3	503453 B3	0 N	10320 B3	0 N	0 N	0 N						
N	0 N	134 B3	0 N	660 B3	0 N	0 N	0 N						
N	0 N	1 A1	0 N	0 N	0 N	0 N	0 N						
N	0 N	23328 B3	0 N	0 N	0 N	0 N	0 N						
N	0 N	2 A1	0 N	0 N	0 N	0 N	0 N						
N	0 N	94176 B3	0 N	0 N	0 N	0 N	0 N						
N	0 N	5 A1	0 N	0 N	0 N	0 N	0 N						
N	0 N	5 A1	0 N	0 N	0 N	0 N	0 N						

N	0 N	0 N	0 N	0 N	0 N	0 N	0 N						0
N	0 N	0 N	0 N	0 N	0 N	0 N	0 N						2
N	0 N	1.839 B4	0.167 B4	0.265 B3	6.713 B4	0 N	0 N						30
N	0 N	1.257 B4	0 N	49.967 B3	2.074 B4	0 N	0 N						53
N	0 N	0 B4	0 N	0.501 B3	0 N	0 N	0 N						1
N	0 N	0 N	0.373 B4	0.548 B4	0 N	0 N	0 N						1
N	0 N	0.942 B4	0.255 B4	1.341 B4	0.948 B4	0 N	0 N						18
N	0 N	0 N	0 N	0 N	0 N	0 N	0 N						1

ANNUAL RETURN INFORMATION REQUIREMENT

SECTION E: OPERATING COSTS AND EFFICIENCY

Table E3a: PPP Cost Analysis

Line Ref.	Description	Ofwat Ref JR 07	WICS Reference AR 06	Units	Field Type	10	20	30	40	50	60	70	80	90	100	110	120
						Highland CG	Highland CG	Tay CG	Aberdeen CG	Aberdeen CG	Aberdeen CG	Aberdeen CG	Moray Coast CG	Moray Coast CG	Moray Coast CG	AVSE CG	AVSE
E3a.0	Name	-	E3a.0			Rt William	Inverness	Hatton	Nigg	Persley	Peterhead	Fraserburgh	Lossie Mouth	Buckie	Banff/Macduff	Seafield	Newbridge
Sewerage Costs																	
E3a.1	Estimated direct operating cost	-	E3a.1	£m	I/C	0.036 D6	0.120 D6	2.008 D6	1.497 D6	0.005 D6	0.047 D6	0.017 D6	0.452 D6	0.350 D6	0.261 D6	0.318 D6	0.001
E3a.2	Rates paid by the PPP contractor	-	E3a.2	£m	I/C	0.000 N	0.000 N	0.000 N	0.000 N	0.000 N	0.000 N	0.000 N	0.000 N	0.000 N	0.000 N	0.000 N	0.000
E3a.3	SEPA charges paid by the PPP contractor	-	E3a.3	£m	I/C	0.001 A2	0.000 N	0.011 A2	0.005 A3	0.000 N	0.000 N	0.000 N	0.004 A2	0.010 A2	0.011 A2	0.007 A2	0.001
E3a.4	Total direct cost	-	E3a.4	£m	C	0.037 D6	0.120 D6	2.019 D6	1.502 D6	0.005 D6	0.047 D6	0.017 D6	0.456 D6	0.360 D6	0.272 D6	0.325 D6	0.002
E3a.5	Scottish Water general & support expenditure	-	E3a.5	£m	I/C	0.001 CX	0.004 C4	0.051 C4	0.097 C4	0.000 CX	0.001 CX	0.000 CX	0.001 C4	0.004 C4	0.005 C4	0.004 C4	0.000
E3a.6	Scottish Water SEPA charges	-	E3a.6	£m	I/C	0.000 N	0.000 N	0.000 N	0.000 N	0.000 N	0.000 N	0.000 N	0.000 N	0.000 N	0.000 N	0.000 N	0.000
E3a.7	Total sewerage cost	-	E3a.7	£m	C	0.038 D6	0.124 D6	2.070 D6	1.599 D6	0.005 D6	0.048 D6	0.017 D6	0.457 D6	0.364 D6	0.277 D6	0.329 D6	0.002
Sewage Treatment Costs																	
E3a.8	Estimated direct operating cost	-	E3a.8	£m	I/C	0.567 D6	1.181 D6	1.580 D6	1.387 D6	0.917 D6	0.599 D6	0.545 D6	0.420 D6	0.323 D6	0.358 D6	6.271 D6	0.959
E3a.9	Rates paid by the PPP contractor	-	E3a.9	£m	I/C	0.044 B3	0.154 B3	0.233 B3	0.467 B3	0.147 B3	0.065 B3	0.079 B3	0.034 B3	0.040 B3	0.051 B3	0.872 B3	0.111
E3a.10	SEPA charges paid by the PPP contractor	-	E3a.10	£m	I/C	0.017 A2	0.228 A2	0.126 A2	0.138 A2	0.014 A2	0.034 A2	0.034 A2	0.031 A2	0.031 A2	0.031 A2	0.138 A2	0.014
E3a.11	Total direct cost	-	E3a.11	£m	C	0.628 D6	1.563 D6	1.939 D6	1.992 D6	1.078 D6	0.698 D6	0.658 D6	0.485 D6	0.394 D6	0.440 D6	7.281 D6	1.084
E3a.12	Scottish Water general & support expenditure	-	E3a.12	£m	I/C	0.010 C4	0.074 C4	0.069 C4	0.146 C4	0.015 C4	0.011 C4	0.009 C4	0.004 C4	0.005 C4	0.009 C4	0.105 C4	0.015
E3a.13	Scottish Water SEPA charges	-	E3a.13	£m	I/C	0.000 N	0.000 N	0.000 N	0.248 A2	0.000 N	0.000 N	0.000 N	0.000 N	0.000 N	0.000 N	0.000 N	0.000
E3a.14	Total sewage treatment cost	-	E3a.14	£m	C	0.638 D6	1.637 D6	2.008 D6	2.386 D6	1.093 D6	0.709 D6	0.667 D6	0.489 D6	0.399 D6	0.449 D6	7.386 D6	1.099
E3a.15	Estimated terminal pumping cost	-	E3a.15	£m	I/C	0.000 M	0.012 A3	0.014 M	0.000 N	0.000 N	0.002 A3	0.000 M	0.003 A3	0.000 M	0.000 M	0.000 M	0.000
Sludge Treatment and Disposal Costs																	
E3a.16	Estimated direct operating cost	-	E3a.16	£m	I/C	0.000 N	0.740 D6	2.349 D6	1.368 D6	0.000 N	0.000 N	0.000 N	1.489 D6	0.000 N	0.000 N	1.735 D6	0.547
E3a.17	Rates paid by the PPP contractor	-	E3a.17	£m	I/C	0.000 N	0.077 B3	0.274 B3	0.330 B3	0.000 N	0.000 N	0.000 N	0.144 B3	0.000 N	0.000 N	0.225 B3	0.089
E3a.18	SEPA charges paid by the PPP contractor	-	E3a.18	£m	I/C	0.000 N	0.007 A2	0.002 A2	0.004 B2	0.000 N	0.000 N	0.000 N	0.000 N	0.000 N	0.000 N	0.003 A2	0.002
E3a.19	Total direct cost	-	E3a.19	£m	C	0.000 N	0.824 D6	2.625 D6	1.702 D6	0.000 N	0.000 N	0.000 N	1.633 D6	0.000 N	0.000 N	1.963 D6	0.638
E3a.20	Scottish Water general & support expenditure	-	E3a.20	£m	I/C	0.000 N	0.528 C4	0.266 C4	0.596 C4	0.000 N	0.000 N	0.000 N	0.152 C4	0.000 N	0.000 N	0.025 C4	0.008
E3a.21	Scottish Water SEPA charges	-	E3a.21	£m	I/C	0.000 N	0.000 N	0.000 N	0.000 N	0.000 N	0.000 N	0.000 N	0.000 N	0.000 N	0.000 N	0.000 N	0.000
E3a.22	Total sludge treatment & disposal cost	-	E3a.22	£m	C	0.000 N	1.352 D6	2.891 D6	2.298 D6	0.000 N	0 N	0.000 N	1.785 D6	0.000 N	0.000 N	1.988 D6	0.646
Total Cost Analysis																	
E3a.23	Total direct cost	-	E3a.23	£m	C	0.665 D6	2.507 D6	6.583 D6	5.196 D6	1.083 D6	0.745 D6	0.675 D6	2.574 D6	0.754 D6	0.712 D6	9.569 D6	1.724
E3a.24	Total Scottish Water cost	-	E3a.24	£m	C	0.011 C4	0.606 C4	0.386 C4	1.087 C4	0.015 C4	0.012 C4	0.009 C4	0.157 C4	0.009 C4	0.014 C4	0.134 C4	0.023
E3a.25	Total operating cost	-	E3a.25	£m	C	0.676 D6	3.113 D6	6.969 D6	6.283 D6	1.098 D6	0.757 D6	0.684 D6	2.731 D6	0.763 D6	0.726 D6	9.703 D6	1.747
E3a.26	Annual charge	-	E3a.26	£m	I/C	2.910 A1	5.475 A1	20.366 A1	12.943 A1	2.242 A1	1.601 A1	1.950 A1	4.665 A1	2.974 A1	3.450 A1	17.097 B3	2.475
E3a.27	Public sector capital equivalent value	-	E3a.27	£m	I	19.230 B3	62.082 B3	166.696 B3	91.911 B3	22.321 B3	18.382 B3	22.321 B3	40.812 B3	30.123 B3	26.236 B3	71.750 B3	10.385
Contract Information																	
E3a.28	Contract period	-	E3a.28	years	I	25 A1	25 A1	30 A1	30 A1	30 A1	30 A1	30 A1	30 A1	30 A1	30 A1	30 A1	30
E3a.29	Contract end date	-	E3a.29	dd/mm/yy	I	44542 A1	44542 A1	47468 A1	47607 A1	47607 A1	47607 A1	47607 A1	48024 A1	48024 A1	48024 A1	47452 A1	47452

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SECTION E: OPERATING COSTS AND EFFICIENCY

Table E4: Water Resources and Treatment

Line Ref.	Description	Ofwat Ref J.R 07	WICS Reference AR 06	Units	Field Type
Source Types					
E4.0	Area Name	-	E4.0	-	I
E4.1	Impounding reservoirs	T12.L1	E4.1	nr. MI/d	I/C
E4.2	Lochs	-	E4.2	nr. MI/d	I/C
E4.3	River and burn abstractions	T12.L2	E4.3	nr. MI/d	I/C
E4.4	Boreholes	T12.L3	E4.4	nr. MI/d	I/C
E4.5	Total	-	E4.5	nr. MI/d	C
E4.6	Bulk water exports	-	E4.6	nr. MI/d	I/C
E4.7	Bulk water imports	-	E4.7	nr. MI/d	I/C

E4.8	Impounding reservoirs	-	E4.8	nr.	C
E4.9	Lochs	-	E4.9	nr.	C
E4.10	River and burn abstractions	-	E4.10	nr.	C
E4.11	Boreholes	-	E4.11	nr.	C
E4.12	Total	-	E4.12	nr.	C

Peak demand and Pumping Head					
E4.13	Peak demand - peak to average ratio	-	E4.13	nr.	I
E4.14	Average pumping head - resources and treatment	T12.L5	E4.14	m	I

Resources and Treatment costs (operational area)					
E4.15	Power	T21.L2	E1.2	£m	I/C
E4.16	Service charges by SEPA	T21.L7	E1.6	£m	I/C
E4.17	Total direct costs	T21.L10	E1.9	£m	I/C
E4.18	General and support costs	T21.L11	E1.10+E1.11	£m	I/C
E4.19	Functional expenditure	T21.L12	E1.12	£m	C

Water Treatment Works by Process Type					
E4.20	Simple Disinfection	T12.L6	E4.17	nr. MI/d. £m	I/C
E4.21	W1	T12.L7	E4.18	nr. MI/d. £m	I/C
E4.22	W2	T12.L8	E4.19	nr. MI/d. £m	I/C
E4.23	W3	T12.L9	E4.20	nr. MI/d. £m	I/C
E4.24	W4	T12.L10	E4.21	nr. MI/d. £m	I/C
E4.25	Total numbers of works	T12.L12	E4.22	nr.	C
E4.26	Total distribution input	T12.L11	E4.23	MI/d	C
E4.27	Total Operating costs	-	-	£m	C

Water Treatment Works by Size Band					
E4.28	Size band <= 1 MI/d	-	E4.30, E4.47	nr. £m	I/C
E4.29	Size band > 1 - <= 2.5 MI/d	-	E4.31, E4.48	nr. £m	I/C
E4.30	Size band > 2.5 - <= 5 MI/d	-	E4.32, E4.49	nr. £m	I/C
E4.31	Size band > 5 - <= 10 MI/d	-	E4.33, E4.50	nr. £m	I/C
E4.32	Size band > 10 - <= 25 MI/d	-	E4.34, E4.51	nr. £m	I/C
E4.33	Size band > 25 - <= 50 MI/d	-	E4.35, E4.53	nr. £m	I/C
E4.34	Size band > 50 - <= 100 MI/d	-	E4.36, E4.54	nr. £m	I/C
E4.35	Size band > 100 - <= 175 MI/d	-	E4.37, E4.55	nr. £m	I/C
E4.36	Size band > 175 MI/d	-	E4.38, E4.56	nr. £m	I/C
E4.37	Total number of works	-	E4.39	nr.	C
E4.38	Proportion of distribution input - total	-	E4.40	nr.	C
E4.39	Total operating costs	-	E4.57	£m	C

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Number of Own Sources									Own Source Outputs								Total Source Outputs
Area 1	Area 2	Area 3	Area 4	Area 5	Area 6	Area 7	Area 8	Total Sources	Area 1	Area 2	Area 3	Area 4	Area 5	Area 6	Area 7	Area 8	Total Source Outputs
number									average daily output (MI/d)								MI/d
North	East	South	West						North	East	South	West					
33	20	28	29					110	86.889	314.185	444.772	590.241					1436.087
33	10	1	2					46	17.783	7.973	0.000	7.372					33.128
54	16	4	15					89	11.800	154.848	0.631	293.654					460.934
23	27	16	1					67	11.635	29.132	26.350	2.811					69.929
143	73	49	47	0	0	0	0	312	128.107	506.139	471.754	894.078	0.000	0.000	0.000	0.000	2000.078
0	0	0	0					0	0.000	0.000	0.000	0.000					0.000
0	0	0	0					0	0.000	0.000	0.000	0.000					0.000

Proportional Breakdown of Source output produced								Proportion of Own Source Output
Area 1	Area 2	Area 3	Area 4	Area 5	Area 6	Area 7	Area 8	Proportion of Own Source Output
0.043	0.157	0.222	0.295	0.000	0.000	0.000	0.000	0.718
0.009	0.004	0.000	0.004	0.000	0.000	0.000	0.000	0.017
0.006	0.077	0.000	0.147	0.000	0.000	0.000	0.000	0.230
0.006	0.015	0.013	0.001	0.000	0.000	0.000	0.000	0.035
0.064	0.253	0.236	0.447	0.000	0.000	0.000	0.000	1.000

10	20
Total	CG
1.031	C4
27.0	C4

Resource and treatment - Costs									120
Area 1	Area 2	Area 3	Area 4	Area 5	Area 6	Area 7	Area 8	Total	CG
1.817	3.183	1.950	3.053					10.003	A2
0.618	0.653	0.696	0.881					2.848	A2
8.542	10.479	8.525	12.684					40.230	A2
2.835	2.263	1.665	2.111					8.874	A2
11.377	12.742	10.190	14.795	0.000	0.000	0.000	0.000	49.104	A2

Total Nr of Works		Total volume Dist'n input		Tot. prop'n of D.I.	Operating Costs	
nr	CG	MI/d	CG	Prop'n (0-1)	£000	CG
49	B2	41.073	B3	0.021	2.258	A2
7	B2	1.006	B3	0.001	0.212	A2
31	B2	484.693	B3	0.247	8.260	A2
158	B2	1233.831	B3	0.617	33.449	A2
38	B2	229.476	B3	0.115	4.923	A2
284	B2	2000.078	B3	1.000	49.102	A2

Nr of Works		Prop'n of D.I.		Operating Costs	
nr	CG	Prop'n (0-1)	CG	£000	CG
163	B2	0.011	C3	7.374	A2
26	B2	0.013	C3	2.959	A2
30	B2	0.036	C3	4.839	A2
16	B2	0.043	C3	4.520	A2
21	B2	0.117	C3	9.174	A2
12	B2	0.143	C3	6.927	A2
10	B2	0.246	C3	5.572	A2
4	B2	0.163	C3	3.720	A2
2	B2	0.228	C3	4.019	A2
284	B2	1	C3	49.104	A2

ANNUAL RETURN INFORMATION REQUIREMENT

SECTION E : OPERATING COSTS AND EFFICIENCY
Table E6: Water Distribution

Line Ref.	Description	Ofwat Ref	WICS Reference	Units	Field Type
		CMR 02, JR07	AR 06		

Area Data					
E6.0	Name	-	E6.0	Name	I
E6.1	Annual average resident connected population	-	E6.1	000	I/C
E6.2	Total connected properties	-	E6.2	000	I/C
E6.3	Volume of water delivered to households	-	E6.3	MI/d	I/C
E6.4	Volume of water delivered to non-households	-	E6.4	MI/d	I/C
E6.5	Area	-	E6.5	km ²	I/C
E6.6	Number of supply zones	-	E6.7	nr	I/C

Distribution costs					
E6.7	Power	T21, L2	E1.2	£m	I/C
E6.8	Service charges by SEPA	T21, L7	E1.6	£m	I/C
E6.9	Total direct costs	T21, L10	E1.9	£m	I/C
E6.10	General and support costs	T21, L11	E1.10 + E1.11	£m	I/C
E6.11	Functional expenditure	T21, L12	E1.12	£m	C

Water main data					
E6.12	Potable mains: Band 1 (<= 165mm)	T12,L13 C1	-	km	I
E6.13	Potable mains: Band 2 (166 - 320mm)	T12,L13 C2	-	km	I
E6.14	Potable mains: Band 3 (321 - 625mm)	T12,L13 C3	-	km	I
E6.15	Potable mains: Band 4 (> 625mm)	T12,L13 C4	-	km	I
E6.16	Total length of mains	-	E6.8	km	C
E6.17	Total length of unlined iron mains	-	E6.9	km	I
E6.18	Total length of mains > 300mm diameter	-	E6.10	km	C
E6.19	Water mains bursts	-	E6.11	nr	I
E6.20	Leakage level	-	E6.12	MI/d	I
E6.21	Properties reported for low pressure	-	E6.13	nr	I/C

Pumping Stations					
E6.22	Total number of pumping stations	-	E6.14	nr	I/C
E6.23	Total capacity of pumping stations	-	E6.15	m ³ /d	I/C
E6.24	Total capacity of booster pumping stations	CM3, L18	E6.15a	Kw	I/C
E6.25	Average pumping head	-	E6.16	m	I

Service Reservoirs					
E6.26	Total number of service reservoirs	CM3, L13	E6.17	nr	I/C
E6.27	Total capacity of service reservoirs	CM3, L14	E6.18	MI	I/C

Water Towers					
E6.28	Total number of water towers	CM3, L15	E6.19	nr	I/C
E6.29	Total capacity of tower towers	CM3, L16	E6.20	MI	I/C

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Report Year 2010-11														199			
Area 1		Area 2		Area 3		Area 4		Area 5		Area 6		Area 7		Area 8		Total	
CG	CG	CG	CG	CG	CG	CG	CG	CG	CG	CG	CG	CG	CG	CG	CG	CG	

North		East		South		West												
267.541	A2	1284.991	A2	1716.631	A2	1787.344	A2										5056.5	A2
149.628	B2	660.288	B2	847.669	B2	913.463	B2										2571.048	B2
44.939	B3	213.026	B3	284.590	B3	299.621	B3										842.176	B2
20.488	B4	110.575	B4	107.567	B4	198.211	B4										436.841	B4
35208.130	A1	20368.092	A1	15475.460	A1	8744.388	A1										79796.070	A1
129	A1	67	A1	57	A1	62	A1										315	A1

0.568	A2	2.628	A2	1.743	A2	2.569	A2										7.508	A2
0.000	A2	0.000	A2	0.000	A2	0.000	A2										0.000	A2
7.319	A2	14.372	A2	14.888	A2	15.461	A2										52.040	A2
2.806	A2	4.719	A2	5.074	A2	5.430	A2										18.029	A2
10.125	A2	19.091	A2	19.962	A2	20.891	A2	0.000		0.000		0.000		0.000			70.069	A2

6150.45	B2	11342.21	B2	9789.06	B2	7834.44	B2										35116.16	B2
1140.45	B2	2326.39	B2	2759.18	B2	2319.28	B2										8545.30	B2
172.34	B2	950.68	B2	1139.01	B2	779.24	B2										3041.26	B2
7.88	B2	138.16	B2	279.29	B2	390.12	B2										815.45	B2
7471.11	B2	14757.44	B2	13966.54	B2	11323.08	B2	0.00		0.00		0.00		0.00			47518.17	B2
797.43	B2	2750.66	B2	5118.67	B2	4684.33	B2										13351.09	B2
180.21	B2	1088.84	B2	1418.29	B2	1169.36	B2	0.00		0.00		0.00		0.00			3856.71	B2
1347	B3	1987	B3	2976	B3	3541	B3										9851	B3
64.611	B3	129.495	B3	235.260	B3	327.555	B3										756.922	B3
431	B2	1150	B2	277	B2	104	B2										1962	B2

165	B2	166	B2	123	B2	110	B2										564	B2
151394	C4	618571	C4	567937	C4	980289	C4										2318190	C4
2874.8	C3	12356.9	C3	9857.9	C3	16221.0	C3										41310.6	C3
23.22	C4	34.19	C4	39.76	C4	25.21	C4										30.43	C4

433	B2	485	B2	258	B2	235	B2										1411	B2
235.572	B2	1171.229	B2	1068.965	B2	1350.209	B2										3825.975	B2

4	B2	5	B2	6	B2	5	B2										20	B2
0.587	B2	10.681	B2	12.544	B2	14.891	B2										38.703	B2

ANNUAL RETURN INFORMATION REQUIREMENT

SECTION E: OPERATING COSTS AND EFFICIENCY
Table E7: Wastewater Explanatory Factors - Sewerage & Sewage treatment by area

Line Ref.	Description	Ofwat Ref JR 07	WICS Reference AR 10	Units	Field Type	Report Year 2010-11								Total
						10	20	30	40	50	60	70	80	
Area Data														
E7.0	Name	-	E7.0	Name	I									
E7.1	Annual average resident connected population	T17a. L1	E7.1	000	I/C									
E7.2	Annual average non-resident connected population	T17a. L2	E7.2	000	I/C									
E7.3	Volume of sewage collected (daily average)	T17a. L3	E7.3	MI/d	I/C									
E7.4	Total connected properties	T17a. L4	E7.4	nr	I/C									
E7.5	Area of Sewerage District	T17a. L5	E7.5	km 2	I/C									
E7.6	Drained Area	-	E7.6	km2	I/C									
E7.7	Annual Precipitation	-	E7.7	mm	I									
Sewerage Data														
E7.8	Total length of sewer	T17a. L6	E7.8	km	I/C									
E7.9	Total length of lateral sewer	-	E7.9	km	I/C									
E7.10	Length of combined sewer	-	E7.10	km	I/C									
E7.11	Length of separate stormwater sewer	-	E7.11	km	I/C									
E7.12	Length of sewer > 1000 mm diameter	-	E7.12	km	I/C									
E7.13	Length of Critical Sewer	-	E7.13	km	I/C									
E7.14	Sewer Collapses	-	E7.14	nr	I/C									
Sewerage costs														
E7.15	Power	T22. L2	E2.2	£m	I/C									
E7.16	Service charges by SEPA	T22. L7	E2.5	£m	I/C									
E7.17	Total direct costs	T22. L9	E2.7	£m	C									
E7.18	General and support costs	T22. L10	E2.8	£m	I/C									
E7.19	Functional expenditure	T22. L11	E2.9	£m	C									
Pumping Stations														
E7.20	Total number of pumping stations	-	E7.15	nr	I/C									
E7.21	Total capacity of pumping stations (m ³ /d)	-	E7.16	m ³ /d	I/C									
E7.22	Total capacity of pumping stations (kw)	-	E7.16a	Kw	I/C									
E7.23	Average pumping head	-	E7.17	m	I									
E7.24	Total number of combined pumping stations	-	E7.18	nr	I/C									
E7.25	Total capacity of combined pumping stations	-	E7.19	m3/d	I/C									
E7.26	Total number of stormwater pumping stations	-	E7.20	nr	I/C									
E7.27	Total capacity of stormwater pumping stations	-	E7.21	m3/d	I/C									
E7.28	Number of combined sewer overflows	-	E7.22	nr	I/C									
E7.29	Number of combined sewer overflows (screened)	-	E7.23	nr	I/C									
Sewage treatment works														
E7.30	Number of sewage treatment works	-	-	nr	I/C									
E7.31	Total Load	-	-	kg BOD/day	I/C									
Sewage treatment costs														
E7.32	Power	T22. L2	E2.2	£m	I/C									
E7.33	Service charges by SEPA	T22. L7	E2.5	£m	I/C									
E7.34	Total direct costs	T22. L9	E2.7	£m	I/C									
E7.35	General and support costs	T22. L10	E2.8	£m	I/C									
E7.36	Functional expenditure	T22. L11	E2.9	£m	I/C									

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ANNUAL RETURN INFORMATION REQUIREMENT

SECTION E : OPERATING COSTS AND EFFICIENCY
Table EB: Wastewater Explanatory Factors - Sewage Treatment Works

Line Ref.	Description	Ofwat Ref	WICS Reference	Units	Field Type	Treatment Category														Total									
						Septic Tanks		Primary		Sec Activated Sludge		Sec biological		Tertiary A1		Tertiary A2		Tertiary B1			Tertiary B2		Sea Preliminary		Sea Screened		Sea Unscreened		
						CG	CG	CG	CG	CG	CG	CG	CG	CG	CG	CG	CG	CG	CG		CG	CG	CG	CG	CG	CG	CG	CG	
Numbers																													
EB.1	Size Band 0	-	EB.1	nr	I/C	989	B3	14	B3	17	B3	86	B3	2	B3	1	B3	8	B3	2	B3	1	B3	0	AX	36	B3	1156	B3
EB.2	Size Band 1	T17c. L1	EB.2	nr	I/C	117	B3	10	B3	24	B3	45	B3	4	B3	1	B3	9	B3	1	B3	0	AX	0	AX	14	B3	225	B3
EB.3	Size Band 2	T17c. L2	EB.3	nr	I/C	61	B3	8	B3	17	B3	47	B3	2	B3	4	B3	8	B3	4	B3	2	B3	0	AX	4	B3	157	B3
EB.4	Size Band 3	T17c. L3	EB.4	nr	I/C	24	B3	14	B3	39	B3	64	B3	6	B3	3	B3	22	B3	4	B3	3	B3	0	AX	2	B3	181	B3
EB.5	Size Band 4	T17c. L4	EB.5	nr	I/C	0	AX	8	B3	45	B3	39	B3	8	B3	3	B3	9	B3	2	B3	8	B3	2	B3	2	B3	126	B3
EB.6	Size Band 5	T17c. L5	EB.6	nr	I/C	0	AX	1	B3	22	B3	2	B3	5	B3	3	B3	4	B3	1	B3	0	AX	0	AX	0	AX	38	B3
EB.7	Size Band 6 (Large Works)	T17c. L6	EB.7	nr	I/C	0	AX	0	AX	18	B3	1	B3	1	B3	1	B3	0	AX	0	AX	0	AX	0	AX	1	B3	22	B3
EB.8	Total Sewage Treatment Works	T17c. L7	EB.8	nr	C	1191	B3	55	B3	182	B3	284	B3	28	B3	16	B3	60	B3	14	B3	14	B3	2	B3	59	B3	1905	B3
EB.9	Small Sewage treatment works with ammonia consent 5 - 10 mg/l	T17c. L8	EB.9	nr	I/C	0	AX	0	AX	13	B3	30	B3	4	B3	0	A	6	B3	2	B3	0	AX	0	AX	0	AX	55	A1
EB.10	Small Sewage treatment works with ammonia consent < = 5 mg/l	T17c. L9	EB.10	nr	I/C	0	AX	0	AX	12	B3	12	B3	13	B3	1	B3	10	B3	3	B3	0	AX	0	AX	0	AX	51	A1

Line Ref.	Description	Ofwat Ref	WICS Reference	Units	Field Type	Treatment Category														Total	Total excluding Septic Tanks								
						CG	CG	CG	CG	CG	CG	CG	CG	CG	CG	CG	CG	CG	CG			CG							
Loading (average daily load)																													
EB.11	Size Band 0	-	EB.11	kg BOD/day	I/C	1548	B3	38	B3	77	B3	230	B3	10	B3	5	B3	27	B3	5	B3	0	B3	0	AX	94	B3	486	B3
EB.12	Size Band 1	T17d. L1	EB.12	kg BOD/day	I/C	1188	B3	104	B3	274	B3	476	B3	38	B3	9	B3	107	B3	18	B3	0	AX	0	AX	129	B3	1154	B3
EB.13	Size Band 2	T17d. L2	EB.13	kg BOD/day	I/C	1351	B3	196	B3	423	B3	1061	B3	49	B3	82	B3	181	B3	82	B3	53	B3	0	AX	108	B3	2236	B3
EB.14	Size Band 3	T17d. L3	EB.14	kg BOD/day	I/C	1432	B3	929	B3	2785	B3	4375	B3	417	B3	238	B3	1276	B3	341	B3	132	B3	0	AX	157	B3	10650	B3
EB.15	Size Band 4	T17d. L4	EB.15	kg BOD/day	I/C	0	AX	2134	B3	14705	B3	10762	B3	2252	B3	741	B3	2386	B3	368	B3	1722	B3	442	B3	276	B3	35788	B3
EB.16	Size Band 5	T17d. L5	EB.16	kg BOD/day	I/C	0	AX	730	B3	19722	B3	1535	B3	4608	B3	1979	B3	4464	B3	757	B3	0	AX	0	AX	0	AX	33795	B3
EB.17	Size Band 6 (large works)	T17d. L6	EB.17	kg BOD/day	I/C	0	AX	0	AX	106973	B3	3747	B3	17454	B3	2008	B3	0	AX	0	AX	0	AX	0	AX	8074	B3	138255	B3
EB.18	Total Load Received	T17d. L7	EB.18	kg BOD/day	C	5519	B3	4131	B3	144959	B3	22187	B3	24827	B3	5061	B3	8441	B3	1571	B3	1907	B3	442	B3	8838	B3	222365	B3
EB.19	Small Sewage treatment works with ammonia consent 5 - 10 mg/l	T17d. L8	EB.19	kg BOD/day	I/C	0	AX	0	AX	3634	B3	2268	B3	1892	B3	0	AX	280	B3	109	B3	0	AX	0	AX	0	AX	8183	B3
EB.20	Small Sewage treatment works with ammonia consent < = 5 mg/l	T17d. L9	EB.20	kg BOD/day	I/C	0	AX	0	AX	4135	B3	1468	B3	1771	B3	629	B3	2590	B3	1125	B3	0	AX	0	AX	0	AX	11719	B3

Line Ref.	Description	Ofwat Ref	WICS Reference	Units	Field Type	Treatment Category														Total								
						CG	CG	CG	CG	CG	CG	CG	CG	CG	CG	CG	CG	CG	CG									
Compliance																												
EB.21	Size Band 0	-	EB.21	%	I	100.0	B2	94.1	B2	100.0	B2	100.0	B2	100.0	B2	100.0	B2	100.0	B2	100.0	B2	100.0	B2	0.0	AX	100.0	B2	
EB.22	Size Band 1	-	EB.22	%	I/C	100.0	B2	95.8	B2	100.0	B2	100.0	B2	100.0	B2	100.0	B2	100.0	B2	0.0	AX	0.0	AX	0.0	AX	100.0	B2	
EB.23	Size Band 2	-	EB.23	%	I/C	100.0	B2	94.1	B2	100.0	B2	100.0	B2	100.0	B2	100.0	B2	100.0	B2	100.0	B2	100.0	B2	0.0	AX	100.0	B2	
EB.24	Size Band 3	-	EB.24	%	I/C	100.0	B2	100.0	B2	98.4	B2	100.0	B2	100.0	B2	100.0	B2	95.5	B2	100.0	B2	100.0	B2	0.0	AX	100.0	B2	
EB.25	Size Band 4	-	EB.25	%	I/C	100.0	B2	93.3	B2	100.0	B2	100.0	B2	100.0	B2	100.0	B2	100.0	B2	100.0	B2	100.0	B2	100.0	B2	100.0	B2	
EB.26	Size Band 5	-	EB.26	%	I/C	100.0	B2	90.9	B2	100.0	B2	80.0	B2	100.0	B2	100.0	B2	100.0	B2	100.0	B2	0.0	AX	0.0	AX	0.0	AX	
EB.27	Size Band 6 (large works)	-	EB.27	%	I/C	0.0	AX	100.0	B2	100.0	B2	100.0	B2	100.0	B2	100.0	B2	0.0	AX	0.0	AX	0.0	AX	0.0	AX	0.0	AX	
EB.28	Average compliance by works - all sizes	-	EB.28	%	I/C	100.0	B2	95.5	B2	99.1	B2	100.0	B2	100.0	B2	99.2	B2	83.3	B2	100.0	B2	100.0	B2	100.0	B2	100.0	B2	
EB.29	Small Sewage treatment works with ammonia consent 5 - 10 mg/l	-	EB.29	%	I/C	0	AX	85	B2	100	B2	75	B2	0	AX	100	B2	100	B2	100	B2	0	AX	0	AX	0	AX	
EB.30	Small Sewage treatment works with ammonia consent < = 5 mg/l	-	EB.30	%	I/C	0.0	AX	92.3	B2	100.0	B2	100.0	B2	100.0	B2	100.0	B2	90.0	B2	100.0	B2	0.0	AX	0.0	AX	0.0	AX	

Line Ref.	Description	Ofwat Ref	WICS Reference	Units	Field Type	Treatment Category														Total									
						CG	CG	CG	CG	CG	CG	CG	CG	CG	CG	CG	CG	CG	CG										
Costs																													
EB.31	Direct costs for works in size band 0	-	EB.31	£000	I/C	808.692	A2	23.570	A2	138.114	A2	337.819	A2	11.054	A2	3.110	A2	40.522	A2	25.264	A2	0.000	AX	0.000	AX	17.619	A2	1405.764	A2
EB.32	Direct costs for works in size band 1	T17f. L1	EB.32	£000	I/C	604.718	A2	62.860	A2	319.221	A2	504.654	A2	50.221	A2	2.695	A2	98.067	A2	8.153	A2	0.000	AX	0.000	AX	17.536	A2	1668.125	A2
EB.33	Direct costs for works in size band 2	T17f. L2	EB.33	£000	I/C	533.307	A2	61.410	A2	414.283	A2	656.617	A2	41.684	A2	119.529	A2	127.890	A2	90.251	A2	11.784	A2	0.000	AX	29.952	A2	2086.707	A2
EB.34	Direct costs for works in size band 3	T17f. L3	EB.34	£000	I/C	535.318	A2	319.623	A2	1476.343	A2	1551.349	A2	305.610	A2	207.123	A2	582.380	A2	119.729	A2	31.137	A2	0.000	AX	15.490	A2	5144.102	A2
EB.35	Direct costs for works in size band 4	T17f. L4	EB.35	£000	I/C	0.000	AX	471.713	A2	3976.329	A2	2014.728	A2	629.632	A2	396.998	A2	579.336	A2	108.291	A2	151.769	A2	28.438	A2	28.842	A2	8386.076	A2
EB.36	Direct costs for works in size band 5	T17f. L5	EB.36	£000	I/C	0.000	AX	98.004	A2	3075.157	A2	146.280	A2	1017.989	A2	407.342	A2	461.525	A2	205.900	A2	0.000	AX	0.000	AX	0.000	AX	5412.197	A2
EB.37	Direct costs for works in size band 6 (large works)	T17f. L6	EB.37	£000	I/C	0.000	AX	0.000	AX	8209.930	A2	451.695	A2	737.410	A2	287.925	A2	0.000	AX	0.000	AX	0.000	AX	0.000	AX	35.137	A2	9722.097	A2
EB.38	Direct costs for all sewage treatment works	T17f. L7	EB.38	£000	C	2482.035	A2	1037.180	A2	17609.377	A2	5663.142	A2	2793.600	A2	1424.722	A2	1889.720	A2	557.588	A2	194.690	A2	28.438	A2	144.576	A2	33825.068	A2
EB.39	General and support expenditure	T17f. L12	EB.39	£000	I/C	586.316	A2	243.318	A2	3725.012	A2	1684.941	A2	479.099	A2	314.526	A2	612.059	A2	148.123	A2	42.678	A2	2.722	A2	13.004	A2	7851.798	A2
EB.40	Functional expenditure	T17f. L13	EB.40	£000	C	3068.351	A2	1280.498	A2	21334.389	A2	7348.083	A2	3272.699	A2	1739.248	A2	2501.779	A2	705.711	A2	237.368	A2	31.160	A2	157.580	A2	41676.866	A2
EB.41	Power costs	T17f. L10	EB.41	£000	I/C	212.591	A2	240.508	A2	7401.615	A2	1263.908	A2	1434.239	A2	598.545	A2	401.164	A2	139.063	A2	28.042	A2	8.040	A2	12.893	A2	11740.608	A2
EB.42	Service charges SPPA	T17f. L11	EB.42	£000	I/C	1598.359	A2	270.560	A2	2434.867	A2	1155.843	A2	266.200															

ANNUAL RETURN INFORMATION REQUIREMENT

SECTION E : OPERATING COSTS AND EFFICIENCY
Table E9: Large Sewage Treatment Works Information Database

Line Ref.	Description	Ofwat Ref JR 07	WICS Reference AR 06	Units	Field Type	10	20	30	40	50	60	70	80	90	100
						1	2	3	4	5	6	7	8	9	10
Works Size						CG	CG	CG	CG	CG	CG	CG	CG	CG	
E9.0	Name	T17b. L1	E9.0	Name	I	Allers South	Alloa West	Ardoch West	Bo'ness South	Carbarns South	Dalderse West	Daldowie South	Dalmarnock West	Dunbar South	Dunfermline East
E9.0a	Name of operational area	-	-	Name	I										
E9.1	Population equivalent of total load received	T17b. L2	E9.5	000	I	43 B3	43 B3	62 B3	31 B3	47 B3	111 B3	291 B3	216 B3	33 B3	78
Compliance															
E9.2	Suspended solids consent	T17b. L3	E9.11	mg/l	I	100 A1	100 A1	100 A1	100 A1	100 A1	100 A1	100 A1	100 A1	100 A1	100
E9.3	BOD consent	T17b. L4	E9.12	mg/l	I	20 A1	25 A1	25 A1	25 A1	15 A1	20 A1	15 A1	25 A1	20 A1	25
E9.4	COD consent	T17b. L5	E9.13	mg/l	I	125 A1	125 A1	125 A1	125 A1	125 A1	125 A1	125 A1	125 A1	125 A1	125
E9.5	Ammonia consent	T17b. L6	E9.14	mg/l	I	5 A1	30 A1	0 N	0 N	10 A1	25 A1	5 A1	11 A1	4 A1	0
E9.6	Phosphate consent	T17b. L7	E9.15	mg/l	I	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0
E9.7	Compliance with effluent consent standard	-	E9.16	%	I	100 A1	100 A1	98 A1	100 A1	100 A1	100 A1	100 A1	99 A1	100 A1	100
Treatment Works Category															
E9.8	Primary	T17b. L8	E9.19	1/0	I	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	0 N	1
E9.9	Secondary activated sludge	T17b. L8	E9.20	1/0	I	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1
E9.10	Secondary biological	T17b. L8	E9.21	1/0	I	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0
E9.11	Tertiary A1	T17b. L8	E9.22	1/0	I	0 N	0 N	0 N	0 N	0 N	0 N	1 A1	0 N	0 N	0
E9.12	Tertiary A2	T17b. L8	E9.23	1/0	I	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0
E9.13	Tertiary B1	T17b. L8	E9.24	1/0	I	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0
E9.14	Tertiary B2	T17b. L8	E9.25	1/0	I	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0
Works Cost															
E9.15	Power costs	T17b. L10	E9.34	£'000	I	116 A2	166 A2	110 A2	65 A2	206 A2	79 A2	575 A2	706 A2	214 A2	21
E9.16	Service charges SEPA	T17b. L11	E9.37	£'000	I	22 A2	20 A2	34 A2	20 A2	44 A2	190 A2	53 A2	54 A2	6 A2	40
E9.17	Total direct costs	T17b. L9	E9.39	£'000	I	187.6 A2	280.0 A2	352.6 A2	195.8 A2	326.7 A2	378.9 A2	737.4 A2	1069.9 A2	287.9 A2	143.1
E9.18	General and support expenditure	T17b. L12	E9.40	£'000	I	26 A2	35 A2	112 A2	58 A2	44 A2	46 A2	57 A2	166 A2	34 A2	39
E9.19	Functional Expenditure	T17b. L13	E9.41	£'000	C	213 A2	316 A2	464 A2	253 A2	371 A2	425 A2	795 A2	1236 A2	322 A2	182
E9.20	Estimated terminal pumping station costs	T17b. L14	E9.42	£'000	I	0 N	0 N	141 A3	0 N	0 N	0 N	0 N	212 A3	0 N	6
E9.21	Estimated sludge costs	T17b. L15	E9.43	£'000	I	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0

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	110	120	130	140	150	160	170	180	190	200	210	220	230	240
	11	12	13	14	15	16	17	18	19	20	21	22	23	24
CG	CG	CG	CG	CG	CG	CG	CG	CG	CG	CG	CG	CG	CG	CG
	Dunnswood West	Erskine West	Hamilton South	Kinneil Kerse South	Kirkcaldy East	Lairdpark (Paisley) West	Perth East	Philipshill South	Shieldhall West	Sirling West	Troqueer South			
B3	31 B3	87 B3	63 B3	51 B3	62 B3	138 B3	97 B3	59 B3	518 B3	69 B3	40 B3			
A1	100 A1	100 A1	100 A1	100 A1	100 A1	100 A1	100 A1	100 A1	100 A1	100 A1	100 A1			
A1	10 A1	25 A1	20 A1	25 A1	25 A1	15 A1	25 A1	10 A1	20 A1	25 A1	20 A1			
A1	125 A1	125 A1	125 A1	125 A1	125 A1	125 A1	125 A1	125 A1	125 A1	125 A1	125 A1			
N	5 A1	30 A1	5 A1	15 A1	0 N	20 A1	30 A1	2 A1	20 A1	15 A1	0 N			
N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N			
A1	99 A1	100 A1	98 A1	100 A1	100 A1	98 A1	100 A1	100 A1	98 A1	100 A1	100 A1			
A1	1 A1	1 A1	1 A1	0 N	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1			
A1	1 A1	1 A1	1 A1	1 A1	0 N	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1			
N	0 N	0 N	0 N	0 N	1 A1	0 N	0 N	0 N	0 N	0 N	0 N			
N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N			
N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N			
N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N			
A2	104 A2	240 A2	235 A2	195 A2	292 A2	387 A2	118 A2	279 A2	939 A2	182 A2	84 A2			
A2	22 A2	20 A2	26 A2	185 A2	0 A2	380 A2	32 A2	72 A2	142 A2	41 A2	20 A2			
A2	246.2 A2	428.8 A2	364.0 A2	441.4 A2	451.7 A2	987.0 A2	241.1 A2	424.6 A2	1688.3 A2	398.9 A2	55.2 A2			
A2	33 A2	69 A2	39 A2	37 A2	65 A2	66 A2	57 A2	36 A2	355 A2	113 A2	24 A2			
A2	279 A2	498 A2	403 A2	478 A2	516 A2	1053 A2	298 A2	461 A2	2043 A2	512 A2	79 A2	0	0	0
A3	0 N	0 N	0 N	0 N	73 A3	116 A3	36 A3	0 N	282 A3	55 A3	22 A3			
N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N			

390	400	410	420	430	440	450	460	470	480	490	500
39	40	41	42	43	44	45	46	47	48	49	50
CG	CG	CG	CG	CG	CG	CG	CG	CG	CG	CG	CG
0	0	0	0	0	0	0	0	0	0	0	0

SECTION E : OPERATING COSTS AND EFFICIENCY
Table E10: Sludge Treatment and Disposal

Line Ref.	Description	Ofwat Ref J.R 07	WICS Reference AR 06	Units	Field Type	10	11	12	20	30	31	32	50	199		
						Disposal category										Total
						Farmland Untreated	Farmland Conventional	Farmland Advanced	Incineration	Landfill	Composted	Land Reclamation	Other	CG	CG	
Sludge volumes																
E10.1	Resident population served	T17g, L1	E10.1	000	I	0.0	402.5	722.7	1223.2	50.3	110.4	94.6	3.8	2607.4		
E10.2	Amount of sewage sludge	T17g, L2	E10.2	ttds	I	0.0	4.0	13.3	0.0	0.5	1.9	0.0	0.0	19.7		
Sludge Treatment and Disposal costs																
E10.3	Sludge Treatment direct costs	T17g, L3	-	£000	I	0.000	2885.993	4027.350	0.000	629.980	439.386	0.000	0.000	7982.709		
E10.4	Sludge disposal direct costs	T17g, L4	-	£000	I	0.000	235.784	1404.111	0.000	399.901	97.559	0.000	0.000	2137.355		
E10.5	Sludge treatment & disposal: Power costs	T17g, L6	E10.4	£000	I	0.000	931.307	681.423	0.000	62.021	81.248	0.000	0.000	1755.999		
E10.6	Sludge treatment & disposal: Service charges SEPA	T17g, L7	E10.7	£000	I	0.000	14.250	25.107	0.000	6.113	6.529	0.000	0.000	51.999		
E10.7	Sludge treatment & disposal: Total direct costs	T17g, L5	E10.9	£000	C	0.000	3121.777	5431.461	0.000	1029.881	536.945	0.000	0.000	10120.064		
E10.8	Sludge treatment and disposal: General and support expenditure	T17g, L8	E10.10	£000	I	0.000	887.781	1134.529	0.000	427.373	196.391	0.000	0.000	2646.074		
E10.9	Sludge Treatment and disposal: Functional Expenditure	T17g, L9	E10.11	£000	C	0.000	4009.558	6565.990	0.000	1457.254	733.336	0.000	0.000	12766.138		

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