

SECTION E : OPERATING COSTS AND EFFICIENCY
Table E1: Activity Based Costing - Water Service

Report Year 2008-09

Line Ref.	Description	Ofwat Ref JR 07	WICS Reference AR 06	Units	Field Type	10		20		199	
						Water Resources & Treatment	CG	Water Distribution	CG	Water Service Total	CG
Service Analysis - Water : Direct Costs											
E1.1	Employment costs	T21, L1	E1.1	£m	I/C	12.397	A2	23.156	A2	35.553	A2
E1.2	Power	T21, L2	E1.2	£m	I/C	8.806	A2	6.483	A2	15.289	A2
E1.3	Hired and contracted services	T21, L4	E1.3	£m	I/C	2.449	A2	19.509	A2	21.958	A2
E1.4	Materials and consumables	T21, L6	E1.5	£m	I/C	9.189	A2	1.853	A2	11.042	A2
E1.5	Service charges by SEPA	T21, L7	E1.6	£m	I/C	3.056	A2	0.000	A2	3.056	A2
E1.6	Bulk supply imports	T21, L8	E1.7	£m	I/C	0.000	N	0.000	N	0.000	N
E1.7	Other direct costs	T21, L9	E1.8	£m	I/C	1.351	A2	1.140	A2	2.491	A2
E1.8	Total direct costs	T21, L10	E1.9	£m	C	37.248	A2	52.141	A2	89.389	A2
E1.9	General and support costs	T21, L11	E1.10 + E1.11	£m	I/C	7.787	A2	12.330	A2	20.117	A2
E1.10	Functional expenditure	T21, L12	E1.12	£m	C	45.035	A2	64.471	A2	109.506	A2
Operating Expenditure											
E1.11	Customer services	T21, L13	E1.13	£m	I					8.874	A2
E1.12	Scientific services	T21, L14	E1.14	£m	I					10.162	A2
E1.13	Other business activities	T21, L15	E1.15	£m	I					4.339	A2
E1.14	Total business activities	T21, L16	E1.16	£m	C					23.375	A2
E1.15	Local authority rates	T21, L17	E1.17	£m	I					22.240	A2
E1.16	Doubtful debts	T21, L18	E1.18	£m	I					10.226	A2
E1.17	Total Exceptional items	T21, L19	E1.23	£m	I					0.000	A2
E1.18	Total opex less third party services	T21, L20	E1.24	£m	C					165.347	A2
E1.19	Third party services - opex	T21, L21	E1.25	£m	I					3.508	A2
E1.20	Total operating expenditure	T21, L22	E1.26	£m	C					168.855	A2
Reactive and Planned Maintenance (included in Opex)											
E1.21	Reactive and planned maintenance infrastructure	T21, L23	E1.27	£m	I/C	0.000	A3	36.421	A3	36.421	A3
E1.22	Reactive and planned maintenance non-infrastructure	T21, L24	E1.28	£m	I/C	3.452	A3	1.176	A3	4.628	A3
Capital Maintenance											
E1.23	Infrastructure depreciation charge	T21, L25	E1.29	£m	I/C	10.362	A2	66.165	A2	76.527	A2
E1.24	Non-Infrastructure depreciation charge	T21, L26	E1.30	£m	I/C	53.579	A2	14.494	A2	68.073	A2
E1.25	Amortisation of deferred credits	T21, L27	E1.31	£m	I					-0.652	A2
E1.26	Amortisation of intangible assets	T21, L28	E1.32	£m	I					0.000	N
E1.27	Business activities depreciation charge	T21, L29	E1.33	£m	I					4.642	A2
E1.28	Capital maintenance less third party services	T21, L30	E1.34	£m	C					148.590	A2
E1.29	Third party services - depreciation	T21, L31 + L32	E1.35	£m	I					1.323	A2
E1.30	Total capital maintenance	T21, L33	E1.36	£m	C					149.913	A2
Total operating costs											
E1.31	Total operating costs	T21, L34	E1.39	£m	C					318.768	A2

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SECTION E : OPERATING COSTS AND EFFICIENCY
Table E1: Activity Based Costing - Water Service

Line Ref.	Description	Ofwat Ref JR 07	WICS Reference AR 06	Units	Field Type
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Service Analysis - Water : Direct Costs

E1.1	Employment costs	T21, L1	E1.1	£m	I/C
E1.2	Power	T21, L2	E1.2	£m	I/C
E1.3	Hired and contracted services	T21, L4	E1.3	£m	I/C
E1.4	Materials and consumables	T21, L6	E1.5	£m	I/C
E1.5	Service charges by SEPA	T21, L7	E1.6	£m	I/C
E1.6	Bulk supply imports	T21, L8	E1.7	£m	I/C
E1.7	Other direct costs	T21, L9	E1.8	£m	I/C

E1.8	Total direct costs	T21, L10	E1.9	£m	C
E1.09	General and support costs	T21, L11	E1.10 + E1.11	£m	I/C

E1.10	Functional expenditure	T21, L12	E1.12	£m	C
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Operating Expenditure

E1.11	Customer services	T21, L13	E1.13	£m	I
E1.12	Scientific services	T21, L14	E1.14	£m	I
E1.13	Other business activities	T21, L15	E1.15	£m	I
E1.14	Total business activities	T21, L16	E1.16	£m	C

E1.15	Local authority rates	T21, L17	E1.17	£m	I
E1.16	Doubtful debts	T21, L18	E1.18	£m	I

E1.17	Total Exceptional items	T21, L19	E1.23	£m	I
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E1.18	Total opex less third party services	T21, L20	E1.24	£m	C
E1.19	Third party services - opex	T21, L21	E1.25	£m	I

E1.20	Total operating expenditure	T21, L22	E1.26	£m	C
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Reactive and Planned Maintenance (included in Opex)

E1.21	Reactive and planned maintenance infrastructure	T21, L23	E1.27	£m	I/C
E1.22	Reactive and planned maintenance non-infrastructure	T21, L24	E1.28	£m	I/C

Capital Maintenance

E1.23	Infrastructure depreciation charge	T21, L25	E1.29	£m	I/C
E1.24	Non-Infrastructure depreciation charge	T21, L26	E1.30	£m	I/C
E1.25	Amortisation of deferred credits	T21, L27	E1.31	£m	I
E1.26	Amortisation of intangible assets	T21, L28	E1.32	£m	I
E1.27	Business activities depreciation charge	T21, L29	E1.33	£m	I

E1.28	Capital maintenance less third party services	T21, L30	E1.34	£m	C
E1.29	Third party services - depreciation	T21, L31 + L32	E1.35	£m	I

E1.30	Total capital maintenance	T21, L33	E1.36	£m	C
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Total operating costs

E1.31	Total operating costs	T21, L34	E1.39	£m	C
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10
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Water Resources &

20
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Water Distribution

199
Report Year 2008-09
Water Service Total

Comment Necessary?

Comment Necessary?

Comment Necessary?

Y
Y
Y
Y
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Y
Y

Y
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SECTION E : OPERATING COSTS AND EFFICIENCY
Table E2: Activity Based Costing - Wastewater Service

Report Year 2008-09

Line Ref.	Description	Ofwat Ref JR 07	WICS Reference AR 06	Units	Field Type	10	20	30	40	50	60	70	80	199	210	220	999				
						Sewerage									Sewage Treatment	Sludge Treatment	Sewerage Service Total	CG			
						Area 1	Area 2	Area 3	Area 4	Area 5	Area 6	Area 7	Area 8	sub total							
Service Analysis - Waste Water Direct Costs																					
E2.0	Name	-	E2.0		I	Ness	Don	Forth	Tay	Ayr	Clyde	Nith	Tweed								
E2.1	Employment costs	T22, L1	E2.1	£m	I/C	1.226	1.795	1.416	2.452	1.644	1.142	1.668	1.942	13.285	10.863	2.659	26.807	A2			
E2.2	Power	T22, L2	E2.2	£m	I/C	0.549	0.604	0.912	1.036	1.668	0.408	0.324	0.749	6.250	9.762	1.206	17.218	A2			
E2.3	Hired and contracted services	T22, L4	E2.3	£m	I/C	0.221	0.594	0.586	0.873	1.066	0.802	1.154	1.038	6.334	1.688	4.611	12.633	A2			
E2.4	Materials and consumables	T22, L6	E2.5	£m	I/C	0.047	0.067	0.129	0.092	0.200	0.030	0.030	0.042	0.637	1.271	0.645	2.553	A2			
E2.5	Service charges by SEPA	T22, L7	E2.6	£m	I/C	0.099	0.154	0.135	0.151	0.114	0.027	0.231	0.061	0.972	6.145	0.108	7.225	A2			
E2.6	Other direct costs	T22, L8	E2.8	£m	I/C	0.099	0.082	0.093	0.016	0.143	-0.010	0.146	0.236	0.805	0.709	0.055	1.569	A2			
E2.7	Total direct costs	T22, L9	E2.9	£m	C	2.241	3.296	3.271	4.620	4.835	2.399	3.553	4.068	28.283	30.438	9.284	68.005	A2			
E2.8	General and support costs	T22, L10	E2.10 + E2.11	£m	I/C	0.741	0.970	0.855	1.279	0.858	0.616	0.896	1.022	7.237	5.866	2.237	15.340	A2			
E2.9	Functional expenditure	T22, L11	E2.12	£m	C	2.982	4.266	4.126	5.899	5.693	3.015	4.449	5.090	35.520	36.304	11.521	83.345	A2			
Operating Expenditure																					
E2.10	Customer services	T22, L12	E2.13	£m	I												8.457	A2			
E2.11	Scientific services	T22, L13	E2.14	£m	I												1.398	A2			
E2.12	Other business activities	T22, L14	E2.15	£m	I												3.508	A2			
E2.13	Total business activities	T22, L15	E2.16	£m	C												13.363	A2			
E2.14	Local authority rates	T22, L16	E2.17	£m	I												9.465	A2			
E2.15	Doubtful debts	T22, L17	E2.18	£m	I												10.996	A2			
E2.16	Total Exceptional items	T22, L18	E2.23	£m	I												0.000	A2			
E2.17	Total opex less third party services	T22, L19	E2.24	£m	C												117.169	A2			
E2.18	Third party services - opex	T22, L20	E2.25	£m	I												2.887	A2			
E2.19	Total operating expenditure	T22, L21	E2.26	£m	C												120.056	A2			
Reactive and Planned Maintenance (included in Opex)																					
E2.20	Reactive and planned maintenance infrastructure	T22, L22	E2.27	£m	I/C	0.888	1.296	1.381	1.764	1.761	1.169	1.806	2.219	12.284	0.000	0.000	12.284	A3			
E2.21	Reactive and planned maintenance non-infrastructure	T22, L23	E2.28	£m	I/C	0.281	0.346	0.281	0.599	0.424	0.303	0.161	0.466	2.861	4.152	0.235	7.248	A3			
Capital Maintenance																					
E2.22	Infrastructure depreciation charge	T22, L24	E2.29	£m	I/C												26.654	0.783	0.015	27.452	A2
E2.23	Non-infrastructure depreciation charge	T22, L25	E2.30	£m	I/C												20.688	58.965	4.745	84.398	A2
E2.24	Amortisation of deferred credits	T22, L26	E2.31	£m	I															-0.243	A2
E2.25	Amortisation of intangible assets	T22, L27	E2.32	£m	I															0.000	N
E2.26	Business activities depreciation charge	T22, L28	E2.33	£m	I															2.134	A2
E2.27	Capital maintenance less third party services	T22, L29	E2.34	£m	C															113.741	A2
E2.28	Third party services - depreciation	T22, L30 + L31	E2.35	£m	I															0.722	A2
E2.29	Total capital maintenance	T22, L32	E2.36	£m	C															114.463	A2
Total Operating Costs																					
E2.30	Total operating costs	T22, L33	E2.39	£m	C															234.519	A2

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SECTION E : OPERATING COSTS AND EFFICIENCY
Table E2: Activity Based Costing - Wastewater Service

999
Report Year 2008-09
Comment Necessary?

Line Ref.	Description	Ofwat Ref JR 07	WICS Reference AR 06	Units	Field Type
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Service Analysis - Waste Water Direct Costs

E2.0	Name	-	E2.0		I
E2.1	Employment costs	T22, L1	E2.1	£m	I/C
E2.2	Power	T22, L2	E2.2	£m	I/C
E2.3	Hired and contracted services	T22, L4	E2.3	£m	I/C
E2.4	Materials and consumables	T22, L6	E2.5	£m	I/C
E2.5	Service charges by SEPA	T22, L7	E2.6	£m	I/C
E2.6	Other direct costs	T22, L8	E2.8	£m	I/C

Y
Y
Y
Y
Y
Y

E2.7	Total direct costs	T22, L9	E2.9	£m	C
E2.8	General and support costs	T22, L10	E2.10 + E2.11	£m	I/C

Y
Y

E2.9	Functional expenditure	T22, L11	E2.12	£m	C
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Y

Operating Expenditure

E2.10	Customer services	T22, L12	E2.13	£m	I
E2.11	Scientific services	T22, L13	E2.14	£m	I
E2.12	Other business activities	T22, L14	E2.15	£m	I
E2.13	Total business activities	T22, L15	E2.16	£m	C

Y
Y
Y
Y

E2.14	Local authority rates	T22, L16	E2.17	£m	I
E2.15	Doubtful debts	T22, L17	E2.18	£m	I

Y
Y

E2.16	Total Exceptional items	T22, L18	E2.23	£m	I
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Y

E2.17	Total opex less third party services	T22, L19	E2.24	£m	C
E2.18	Third party services - opex	T22, L20	E2.25	£m	I

Y
Y

E2.19	Total operating expenditure	T22, L21	E2.26	£m	C
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Y

Reactive and Planned Maintenance (included in Opex)

E2.20	Reactive and planned maintenance infrastructure	T22, L22	E2.27	£m	I/C
E2.21	Reactive and planned maintenance non-infrastructure	T22, L23	E2.28	£m	I/C

Y
Y

Capital Maintenance

E2.22	Infrastructure depreciation charge	T22, L24	E2.29	£m	I/C
E2.23	Non-infrastructure depreciation charge	T22, L25	E2.30	£m	I/C
E2.24	Amortisation of deferred credits	T22, L26	E2.31	£m	I
E2.25	Amortisation of intangible assets	T22, L27	E2.32	£m	I
E2.26	Business activities depreciation charge	T22, L28	E2.33	£m	I

Y
Y
Y
Y
Y

E2.27	Capital maintenance less third party services	T22, L29	E2.34	£m	C
E2.28	Third party services - depreciation	T22, L30 + L31	E2.35	£m	I

Y
Y

E2.29	Total capital maintenance	T22, L32	E2.36	£m	C
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Y

Total Operating Costs

E2.30	Total operating costs	T22, L33	E2.39	£m	C
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Y

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SECTION E : OPERATING COSTS AND EFFICIENCY

Table E3: PPP Project 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	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						Ft William	Inverness	Hatton	Nigg	Persley	Peterhead	Fraserburgh	Lossiemouth	Buckie	Banff/Macduff	Seafield	Newbridge	East Calder	Blackburn
E3.0	Name	-	E3.0		I	7.5	52.9	185.4	192.5	34.2	22.3	15.1	32.9	12.2	10.1	550.4	21.6	68.0	15.6
E3.1	Annual average resident connected population	-	E3.1	000	I/C	1.3	2.6	2.6	3.1	0.6	0.6	0.6	1.1	0.7	0.5	10.8	0.2	0.4	0.2
E3.2	Annual average non-resident connected population	-	E3.2	000	I/C	22	85	263	285	43	59	40	39	25	12	801	43	113	21
E3.3	Population equivalent of total load received	-	E3.5	000	I/C														
Scope of Works						1	1	1	1	1	1	1	1	1	1	1	1	0	1
E3.4	Sewerage	-	E3.7	1/0	I	1	1	1	1	1	1	1	1	1	1	1	1	0	1
E3.5	Sewage Treatment	-	E3.8	1/0	I	0	1	1	1	1	1	1	1	0	0	1	1	1	0
E3.6	Sludge Treatment	-	E3.9	1/0	I	1	1	1	1	1	1	1	1	1	1	1	1	1	0
E3.7	Terminal Pumping Station	-	E3.10	1/0	I	0	1	1	1	1	1	1	1	1	1	1	1	1	0
E3.8	Other (state details)	-	E3.11	1/0	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sewage Treatment - Effluent Consent Standard						100	100	100	0	100	0	0	100	100	100	150	100	100	100
E3.9	Suspended solids consent	-	E3.17	mg/l	I	25	25	25	25	25	25	25	25	25	25	25	25	15	15
E3.10	BOD consent	-	E3.18	mg/l	I	125	125	125	125	125	125	125	125	125	125	125	125	125	125
E3.11	COD consent	-	E3.19	mg/l	I	0	0	50	0	35	0	0	0	0	0	0	0	7	2
E3.12	Ammonia consent	-	E3.20	mg/l	I	0	0	0	0	2	0	0	0	0	0	0	0	1	1
E3.13	Phosphate consent	-	E3.21	mg/l	I	100	100	100	94	97	100	100	99	100	100	100	100	98	100
E3.14	Compliance with effluent consent standard	-	E3.22	%	I														
Treatment Works Category						1	1	1	1	0	1	1	0	0	0	1	1	1	1
E3.15	Primary	-	E3.25	1/0	I	1	1	1	1	1	1	1	1	1	1	1	1	1	0
E3.16	Secondary activated sludge	-	E3.26	1/0	I	0	0	0	0	0	0	0	0	0	0	0	0	0	1
E3.17	Secondary biological	-	E3.27	1/0	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E3.18	Tertiary A1	-	E3.28	1/0	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E3.19	Tertiary A2	-	E3.29	1/0	I	0	1	0	0	1	0	1	0	0	1	1	1	1	0
E3.20	Tertiary B1	-	E3.30	1/0	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E3.21	Tertiary B2	-	E3.31	1/0	I	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Sewerage Data						4.28	10.74	40.30	35.70	0.41	0.96	1.80	35.80	19.20	7.45	44.05	3.06	0.00	0.00
E3.22	Total length of sewer	-	E3.47	km	I	4.28	10.74	40.30	35.70	0.41	0.96	1.80	35.80	19.20	7.45	44.05	3.06	0.00	0.00
E3.23	Length of critical sewer	-	E3.48	km	I	4	4	16	14	0	0	1	7	12	10	7	2	0	0
E3.24	Number of pumping stations	-	E3.49	nr	I	65992	247622	2495439	192871	0	0	16848	236563	44240	239242	238723	27043	0	0
E3.25	Capacity of pumping stations (m ³ /d)	-	E3.50	m ³ /day	I	59	806	6310	2103	0	0	0	325	525	571	713	26	0	0
E3.26	Capacity of pumping stations (kw)	-	E3.51	kw	I	2	1	7	12	0	0	0	4	8	7	6	1	0	0
E3.27	Number of combined pumping stations	-	E3.52	nr	I	4821	34214	209002	96362	0	0	0	65232	23599	115949	116035	10109	0	0
E3.28	Capacity of combined pumping stations (m ³ /d)	-	E3.53	m ³ /day	I	0	2	6	2	0	0	0	1	1	1	0	0	0	0
E3.29	Number of stormwater pumping stations	-	E3.54	nr	I	0	209088	2134598	96509	0	0	0	142560	6394	56419	0	0	0	0
E3.30	Capacity of stormwater pumping stations (m ³ /d)	-	E3.55	m ³ /day	I	2	1	9	8	0	0	1	4	10	8	9	1	0	0
E3.31	Number of combined sewer overflows	-	E3.56	nr	I	2	1	9	8	0	0	1	4	10	8	9	1	0	0
E3.32	Number of combined sewer overflows (screened)	-	E3.57	nr	I	2	1	9	8	0	0	1	4	10	8	9	1	0	0
Sludge Treatment and Disposal Data						0	0	0	0	0	0	0	0	0	0	0	0	0	0
E3.33	Farmland Untreated	-	E3.58	ttds	I/C	0	2	0	0	0	0	0	0	0	0	0	0	0	0
E3.34	Farmland Conventional	-	E3.59	ttds	I/C	0	0	4	9	0	0	0	2	0	0	7	0	0	0
E3.35	Farmland Advanced	-	E3.60	ttds	I/C	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E3.36	Incineration	-	E3.62	ttds	I/C	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E3.37	Landfill	-	E3.61	ttds	I/C	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E3.38	Composted	-	E3.63	ttds	I/C	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E3.39	Land Reclamation	-	E3.64	ttds	I/C	0	0	0	0	0	0	0	0	0	0	0	5	1	0
E3.40	Other	-	E3.65	ttds	I/C	0	0	0	0	0	0	0	0	0	0	4	0	0	0

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

	Whitburn	Levenmouth	Dalmuir	Daldowie	Meadowhead	Stevenston	Inverclyde						
B3	11.4 B3	119.7 B3	403.6 B3	0.0 A1	189.1 B3	70.8 B3	77.3 B3					2092.5 B3	B3
B3	0.1 B3	1.1 B3	4.7 B3	0.0 A1	3.0 B3	0.4 B3	0.5 B3					35.0 B3	B3
B3	12 B3	209 B3	612 B3	0 A1	360 B3	90 B3	92 B3					3226 B3	B3

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	0 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	0 N	0 N	0 N						
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	1 A1	0 N	0 N	0 N	0 N	0 N	0 N						
A1	98 A1	100 A1	85 A1	0 N	100 A1	100 A1	100 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	0.00 N	7.81 B3	0.00 N	11.80 B3	0.00 N	0.00 N	0.90 B3						
N	0.00 N	7.81 B3	0.00 N	11.80 B3	0.00 N	0.00 N	0.90 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	N
N	0 N	0 N	0 N	0 N	0 N	0 N	0 N					2 B4	B4
N	0 N	1 B4	0 N	0 N	3 B4	0 N	0 N					27 B4	B4
N	0 N	2 B4	0 N	48 B3	5 B4	0 N	0 N					55 B3	B3
N	0 N	0 B4	0 N	1 B3	0 B4	0 N	0 N					2 B4	B4
N	0 N	0 N	0 N	0 N	0 N	0 N	0 N					1 B4	B4
N	0 N	1 B4	0 N	0 B3	0 B4	0 N	0 N					9 B4	B4
N	0 N	0 N	0 N	0 N	0 N	0 N	0 N					4 B4	B4

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 CG
E3a.0	Name	-	E3a.0			Ft 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	0.033 D6	0.112 D6	1.871 D6	1.389 D6	0.004 D6	0.057 D6	0.027 D6	0.419 D6	0.327 D6	0.241 D6	0.312 D6	0.002
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	0.003 A2	0.003 A2	0.012 A2	0.011 B2	0.000 N	0.000 N	0.001 A2	0.005 A2	0.012 A2	0.013 A2	0.000 N	0.000
E3a.4	Total direct cost	-	E3a.4	£m	C	0.036 D6	0.115 D6	1.883 D6	1.400 D6	0.004 D6	0.057 D6	0.028 D6	0.424 D6	0.339 D6	0.254 D6	0.312 D6	0.002
E3a.5	Scottish Water general & support expenditure	-	E3a.5	£m	I/C	0.002 CX	0.006 C4	0.053 C4	0.129 C4	0.000 CX	0.001 CX	0.000 CX	0.017 C4	0.012 C4	0.012 C4	0.014 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	0.121 D6	1.936 D6	1.529 D6	0.004 D6	0.058 D6	0.028 D6	0.441 D6	0.351 D6	0.266 D6	0.326 D6	0.002
Sewage Treatment Costs																	
E3a.8	Estimated direct operating cost	-	E3a.8	£m	I/C	0.525 D6	1.116 D6	1.470 D6	0.891 D6	0.718 D6	0.465 D6	0.465 D6	0.393 D6	0.301 D6	0.331 D6	5.475 D6	0.841
E3a.9	Rates paid by the PPP contractor	-	E3a.9	£m	I/C	0.049 B3	0.171 B3	0.199 B3	0.375 B3	0.124 B3	0.055 B3	0.061 B3	0.027 B3	0.031 B3	0.037 B3	0.756 B3	0.078
E3a.10	SEPA charges paid by the PPP contractor	-	E3a.10	£m	I/C	0.018 A2	0.173 A2	0.123 A2	0.120 A2	0.013 A2	0.032 A2	0.030 A2	0.031 A2	0.033 A2	0.033 A2	0.127 B3	0.013
E3a.11	Total direct cost	-	E3a.11	£m	C	0.592 D6	1.460 D6	1.792 D6	1.386 D6	0.855 D6	0.552 D6	0.556 D6	0.451 D6	0.365 D6	0.401 D6	6.358 D6	0.932
E3a.12	Scottish Water general & support expenditure	-	E3a.12	£m	I/C	0.032 C4	0.084 C4	0.054 C4	0.136 C4	0.014 C4	0.069 C4	0.009 C4	0.037 C4	0.014 C4	0.020 C4	0.310 C4	0.015
E3a.13	Scottish Water SEPA charges	-	E3a.13	£m	I/C	0.000 N	0.000 N	0.000 N	0.215 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	0.624 D6	1.544 D6	1.846 D6	1.737 D6	0.869 D6	0.621 D6	0.565 D6	0.488 D6	0.379 D6	0.421 D6	6.668 D6	0.947
E3a.15	Estimated terminal pumping cost	-	E3a.15	£m	I/C	0.000 M	0.007 A3	0.000 M	0.000 N	0.000 N	0.053 A3	0.000 M	0.018 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	0.695 D6	2.105 D6	0.922 D6	0.000 N	0.000 N	0.000 N	1.384 D6	0.000 N	0.000 N	1.475 D6	0.463
E3a.17	Rates paid by the PPP contractor	-	E3a.17	£m	I/C	0.000 N	0.086 B3	0.226 B3	0.241 B3	0.000 N	0.000 N	0.000 N	0.112 B3	0.000 N	0.000 N	0.189 B3	0.066
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 A2	0.000 N	0.000 N	0.000 N	0.002 A2	0.000 N	0.000 N	0.003 A2	0.003
E3a.19	Total direct cost	-	E3a.19	£m	C	0.000 N	0.788 D6	2.333 D6	1.167 D6	0.000 N	0.000 N	0.000 N	1.498 D6	0.000 N	0.000 N	1.667 D6	0.532
E3a.20	Scottish Water general & support expenditure	-	E3a.20	£m	I/C	0.000 N	0.464 C4	0.277 C4	0.561 C4	0.000 N	0.000 N	0.000 N	0.212 C4	0.000 N	0.000 N	0.075 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	1.252 D6	2.610 D6	1.728 D6	0.000 N	0 N	0.000 N	1.710 D6	0.000 N	0.000 N	1.742 D6	0.540
Total Cost Analysis																	
E3a.23	Total direct cost	-	E3a.23	£m	C	0.628 D6	2.363 D6	6.008 D6	3.953 D6	0.859 D6	0.609 D6	0.584 D6	2.373 D6	0.704 D6	0.655 D6	8.337 D6	1.466
E3a.24	Total Scottish Water cost	-	E3a.24	£m	C	0.034 C4	0.554 C4	0.384 C4	1.041 C4	0.014 C4	0.070 C4	0.009 C4	0.266 C4	0.026 C4	0.032 C4	0.399 C4	0.023
E3a.25	Total operating cost	-	E3a.25	£m	C	0.662 D6	2.917 D6	6.392 D6	4.994 D6	0.873 D6	0.679 D6	0.593 D6	2.639 D6	0.730 D6	0.687 D6	8.736 D6	1.489
E3a.26	Annual charge	-	E3a.26	£m	I/C	3.047 A1	5.935 A1	19.704 A1	12.208 A1	2.206 A1	1.878 A1	1.854 A1	3.952 A1	2.903 A1	3.114 A1	16.513 B3	2.321
E3a.27	Public sector capital equivalent value	-	E3a.27	£m	I	17.953 B3	57.960 B3	155.629 B3	85.809 B3	20.839 B3	17.162 B3	20.839 B3	38.102 B3	28.123 B3	24.494 B3	68.954 B3	9.980
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	12/12/21 A1	12/12/21 A1	15/12/29 A1	04/05/30 A1	04/05/30 A1	04/05/30 A1	04/05/30 A1	25/06/31 A1	25/06/31 A1	25/06/31 A1	30/11/29 A1	30/11/29

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SECTION E : OPERATING COSTS AND EFFICIENCY
Table E4: Water Resources and Treatment

Line Ref.	Description	Ofwat Ref JR 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, M/d	I/C
E4.2	Lochs	-	E4.2	nr, M/d	I/C
E4.3	River and burn abstractions	T12, L2	E4.3	nr, M/d	I/C
E4.4	Boreholes	T12, L3	E4.4	nr, M/d	I/C
E4.5	Total	-	E4.5	nr, M/d	C
E4.6	Bulk water exports	-	E4.6	nr, M/d	I/C
E4.7	Bulk water imports	-	E4.7	nr, M/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, M/d, £m	I/C
E4.21	W1	T12, L7	E4.18	nr, M/d, £m	I/C
E4.22	W2	T12, L8	E4.19	nr, M/d, £m	I/C
E4.23	W3	T12, L9	E4.20	nr, M/d, £m	I/C
E4.24	W4	T12, L10	E4.21	nr, M/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	M/d	C
E4.27	Total Operating costs	-	-	£m	C

Water Treatment Works by Size Band					
E4.28	Size band <=1 M/d	-	E4.30, E4.47	nr, £m	I/C
E4.29	Size band >1 - <=2.5 M/d	-	E4.31, E4.48	nr, £m	I/C
E4.30	Size band >2.5 - <=5 M/d	-	E4.32, E4.49	nr, £m	I/C
E4.31	Size band >5 - <=10 M/d	-	E4.33, E4.50	nr, £m	I/C
E4.32	Size band >10 - <=25 M/d	-	E4.34, E4.51	nr, £m	I/C
E4.33	Size band >25 - <=50 M/d	-	E4.35, E4.53	nr, £m	I/C
E4.34	Size band >50 - <=100 M/d	-	E4.36, E4.54	nr, £m	I/C
E4.35	Size band >100 - <=175 M/d	-	E4.37, E4.55	nr, £m	I/C
E4.36	Size band >175 M/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																										
Ness	Don	Forth	Tay	Ayr	Clyde	Nith	Tweed		Ness	Don	Forth	Tay	Ayr	Clyde	Nith	Tweed										
23	9	24	9	14	6	18	13	116	70,648	13,557	473,812	214,567	269,138	32,886	202,427	257,532	1,534,567									
34	9	3	0	1	0	0	0	47	16,537	13,176	8,650	0,000	0,000	0,000	0,000	0,000	38,363									
55	17	22	3	2	0	3	0	105	13,320	141,586	320,609	19,834	0,243	0,000	1,063	4,791	501,445									
17	34	6	8	3	0	13	9	90	7,422	18,149	0,599	13,952	3,218	0,000	14,741	11,244	69,325									
129	69	55	20	20	6	34	25	358	107,927	186,467	803,670	248,352	272,598	32,886	218,232	273,567	2,143,700									
0	0	0	0	0	0	0	0	0	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000	0,000									
0	0	0	0	0	0	0	0	0	0,000	0,000	0,000	0,000	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	Total	Area 1	Area 2	Area 3	Area 4	Area 5	Area 6	Area 7	Area 8	Total	
0.033	0.006	0.221	0.100	0.126	0.015	0.094	0.120	0.716	0.008	0.006	0.004	0.000	0.000	0.000	0.000	0.000	0.018	
0.006	0.006	0.150	0.009	0.000	0.000	0.000	0.002	0.234	0.003	0.008	0.000	0.007	0.002	0.000	0.007	0.005	0.032	
0.050	0.087	0.375	0.116	0.127	0.015	0.102	0.128	1.000										

10	20	CG
1		C4
25.3		C3

Resource and treatment - Costs										120
Area 1	Area 2	Area 3	Area 4	Area 5	Area 6	Area 7	Area 8	Total	CG	
0.990	2.169	0.617	0.787	0.829	1.674	0.735	1.005	8.806	A2	
0.504	0.348	0.489	0.334	0.460	0.181	0.424	0.316	3.056	A2	
5.460	6.043	5.605	3.329	4.859	4.173	3.782	3.997	37.248	A2	
1.620	1.110	1.439	0.674	0.856	0.556	0.698	0.834	7.787	A2	
7.080	7.153	7.044	4.003	5.715	4.729	4.480	4.831	45.035	A2	

Total Nr of Works		Total volume Dist'n input		Tot. prop'n of D.I.		Operating Costs	
nr	CG	M/d	CG	Prop'n (0-1)	£000	CG	
60	B2	46,662	B3	0.022	2,378	A2	
13	B2	13,568	B3	0.006	0,733	A2	
42	B2	706,409	B3	0.330	10,061	A2	
134	B2	1,037,640	B3	0.484	25,786	A2	
50	B2	339,420	B3	0.158	6,077	A2	
299	B2	2,143,700	B3	1.000	45,035	A2	

Nr of Works		Prop'n of D.I.		Operating Costs	
nr	CG	Prop'n (0-1)	CG	£000	CG
174	B2	0.012	C3	6,430	A2
25	B2	0.013	C3	2,216	A2
30	B2	0.033	C3	4,243	A2
19	B2	0.041	C3	3,991	A2
23	B2	0.114	C3	8,302	A2
13	B2	0.161	C3	7,015	A2
9	B2	0.221	C3	5,203	A2
4	B2	0.171	C3	4,003	A2
2	B2	0.233	C3	3,632	A2
299	B2	1	C3	45,035	A2

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

Line Ref.	Description	Owat Ref CMR 02, JR07	WICS Reference AR 06	Units	Field Type
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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 (operational area)					
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, 13	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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 Checked by: Date: 11/06/2009
 Authorised by: Geoff Aitkenhead Date: 11/06/2009

Report Year 2008-09																	
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	

Ness		Don		Forth		Tay		Ayr		Clyde		Nith		Tweed		Total	
227.6	A2	524.9	A2	456.5	A2	740.5	A2	606.0	A2	773.2	A2	765.1	A2	907.9	A2	5001.7	A2
129.346	B2	276.002	B2	231.057	B2	380.269	B2	310.274	B2	400.683	B2	375.605	B2	458.416	B2	2561.653	B2
40.656	B2	92.417	B2	80.218	B2	130.332	B2	107.628	B2	136.837	B2	134.995	B2	159.426	B2	882.509	B2
19.777	B4	47.655	B4	88.538	B4	68.250	B4	72.171	B4	48.431	B4	52.578	B4	68.694	B4	466.093	B4
29550.000	A1	10887.000	A1	10041.000	A1	9485.000	A1	3850.000	A1	526.000	A1	8919.000	A1	6503.000	A1	79761.000	A1
109	A1	49	A1	55	A1	18	A1	17	A1	18	A1	31	A1	32	A1	329	A1

0.435	A2	1.450	A2	0.419	A2	0.459	A2	0.266	A2	1.729	A2	1.378	A2	0.347	A2	6.483	A2
0.000	A2	0.000	A2	0.000	A2	0.000	A2	0.000	A2	0.000	A2	0.000	A2	0.000	A2	0.000	A2
5.251	A2	7.122	A2	5.645	A2	6.003	A2	5.296	A2	6.149	A2	9.024	A2	7.651	A2	52.141	A2
1.526	A2	1.659	A2	1.361	A2	1.678	A2	1.265	A2	1.220	A2	1.853	A2	1.768	A2	12.330	A2
6.777	A2	8.781	A2	7.006	A2	7.681	A2	6.561	A2	7.369	A2	10.877	A2	9.419	A2	64.471	A2

5360.81	B2	5947.39	B2	3199.16	B2	5333.88	B2	3085.64	B2	2366.19	B2	5681.35	B2	3964.30	B2	34938.72	B2
899.56	B2	1132.40	B2	854.79	B2	1160.47	B2	1057.77	B2	621.06	B2	1258.90	B2	1469.32	B2	8454.26	B2
158.99	B2	416.99	B2	224.58	B2	536.83	B2	322.67	B2	213.51	B2	634.89	B2	478.98	B2	2987.44	B2
7.62	B2	22.63	B2	119.72	B2	112.74	B2	83.57	B2	190.88	B2	241.78	B2	55.31	B2	834.26	B2
6426.98	B2	7519.40	B2	4398.24	B2	7143.92	B2	4549.65	B2	3391.64	B2	7816.92	B2	5967.91	B2	47214.67	B2
826.18	B2	989.78	B2	1779.71	B2	1839.82	B2	1597.45	B2	1640.84	B2	2564.53	B2	2666.93	B2	13905.23	B2
166.61	B2	439.62	B2	344.30	B2	649.57	B2	406.24	B2	404.39	B2	876.66	B2	534.30	B2	3821.69	B2
1087	B3	755	B3	1077	B3	802	B3	1394	B3	1563	B3	1885	B3	1066	B3	9629	B3
51.181	B3	55.647	B3	117.876	B3	74.673	B3	150.193	B3	188.906	B3	143.971	B3	86.642	B3	869.091	B3
361	B3	1052	B3	219	B3	510	B3	76	B3	157	B3	282	B3	317	B3	2974	B3

129	B2	79	B2	58	B2	80	B2	52	B2	26	B2	73	B2	35	B2	532	B2
44497	C4	203273	C4	68972	C4	95775	C4	28088	C4	132260	C4	268403	C4	60543	C4	901811	C4
1867.0	C3	7484.2	C3	1768.9	C3	2939.6	C3	1119.7	C3	10560.6	C3	3321.3	C3	773.8	C3	29835.3	C3
32.32	C3	54.25	C3	7.35	C3	17.02	C3	7.41	C3	40.57	C3	77.13	C3	14.01	C3	29.72	C3

356	B2	292	B2	211	B2	197	B2	88	B2	36	B2	145	B2	120	B2	1445	B2
202.072	B2	507.131	B2	508.247	B2	668.872	B2	447.195	B2	488.544	B2	531.191	B2	444.670	B2	3797.922	B2

5	B2	3	B2	0	B2	4	B2	0	B2	6	B2	6	B2	0	B2	24	B2
0.596	B2	1.027	B2	0.000	B2	10.217	B2	0.000	B2	15.176	B2	12.544	B2	0.000	B2	39.560	B2

ANNUAL RETURN INFORMATION REQUIREMENT

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

Line Ref.	Description	Owat Ref CMR 02, JR07	WICS Reference AR 06	Units	Field Type	10	20	30	40	50	60	70	80	199
						Report Year 2008-09 - Area 1	Report Year 2008-09 - Area 2	Report Year 2008-09 - Area 3	Report Year 2008-09 - Area 4	Report Year 2008-09 - Area 5	Report Year 2008-09 - Area 6	Report Year 2008-09 - Area 7	Report Year 2008-09 - Area 8	Report Year 2008-09 - Total
Area Data														
E6.0	Name	-	E6.0	Name	I									
E6.1	Annual average resident connected population	-	E6.1	000	IC	N	N	N	N	N	N	N	N	N
E6.2	Total connected properties	-	E6.2	000	IC	N	N	N	N	N	N	N	N	N
E6.3	Volume of water delivered to households	-	E6.3	Mld	IC	N	N	N	N	N	N	N	N	N
E6.4	Volume of water delivered to non-households	-	E6.4	Mld	IC	N	N	N	N	N	N	N	N	N
E6.5	Area	-	E6.5	km ²	IC	N	N	N	N	N	N	N	N	N
E6.6	Number of supply zones	-	E6.7	nr	IC	N	N	N	N	N	N	N	N	N
Distribution costs (operational area)														
E6.7	Power	T21, L2	E1.2	Em	IC	N	N	N	N	N	N	N	N	N
E6.8	Service charges by SEPA	T21, L7	E1.6	Em	IC	N	N	N	N	N	N	N	N	N
E6.9	Total direct costs	T21, L10	E1.9	Em	IC	N	N	N	N	N	N	N	N	N
E6.10	General and support costs	T21, L11	E1.10 + E1.11	Em	IC	N	N	N	N	N	N	N	N	N
E6.11	Functional expenditure	T21, L12	E1.12	Em	C	N	N	N	N	N	N	N	N	N
Water main data														
E6.12	Potable mains: Band 1 (<=165mm)	T12, L13 C1	-	km	I	N	N	N	N	N	N	N	N	N
E6.13	Potable mains: Band 2 (166 - 320mm)	T12, L13 C2	-	km	I	N	N	N	N	N	N	N	N	N
E6.14	Potable mains: Band 3 (321 - 625mm)	T12, L13 C3	-	km	I	N	N	N	N	N	N	N	N	N
E6.15	Potable mains: Band 4 (>=625mm)	T12, L13 C4	-	km	I	N	N	N	N	N	N	N	N	N
E6.16	Total length of mains	-	E6.8	km	C	N	N	N	N	N	N	N	N	N
E6.17	Total length of unlined iron mains	-	E6.9	km	I	N	N	N	N	N	N	N	N	N
E6.18	Total length of mains > 300mm diameter	-	E6.10	km	C	N	N	N	N	N	N	N	N	N
E6.19	Water mains bursts	-	E6.11	nr	I	N	N	N	N	N	N	N	N	N
E6.20	Leakage level	-	E6.12	Mld	I	N	N	N	N	N	N	N	N	N
E6.21	Properties reported for low pressure	-	E6.13	nr	IC	N	N	N	N	N	N	N	N	N
Pumping Stations														
E6.22	Total number of pumping stations	-	E6.14	nr	IC	N	N	N	N	N	N	N	N	N
E6.23	Total capacity of pumping stations	-	E6.15	m ³ /d	IC	N	N	N	N	N	N	N	N	N
E6.24	Total capacity of booster pumping stations	CM3, L18	E6.15a	Kw	IC	N	N	N	N	N	N	N	N	N
E6.25	Average pumping head	-	E6.16	m	I	N	N	N	N	N	N	N	N	N
Service Reservoirs														
E6.26	Total number of service reservoirs	CM3, L13	E6.17	nr	IC	N	N	N	N	N	N	N	N	N
E6.27	Total capacity of service reservoirs	CM3, L14	E6.18	Ml	IC	N	N	N	N	N	N	N	N	N
Water Towers														
E6.28	Total number of water towers	CM3, L15	E6.19	nr	IC	N	N	N	N	N	N	N	N	N
E6.29	Total capacity of water towers	CM3, L16	E6.20	Ml	IC	N	N	N	N	N	N	N	N	N

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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 06	Units	Field Type	Report Year 2008-09										Total					
						Area 1		Area 2		Area 3		Area 4		Area 5			Area 6		Area 7		Area 8
Area Data						10	20	30	40	50	60	70	80	199							
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	ML/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	km ²	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																
Pumping Stations																					
E7.15	Total number of pumping stations	-	E7.15	nr	I/C																
E7.16	Total capacity of pumping stations (m ³ /d)	-	E7.16	m ³ /d	I/C																
E7.16a	Total capacity of pumping stations (kw)	-	E7.16a	Kw	I/C																
E7.17	Average pumping head	-	E7.17	m	I																
E7.18	Total number of combined pumping stations	-	E7.18	nr	I/C																
E7.19	Total capacity of combined pumping stations	-	E7.19	m ³ /d	I/C																
E7.20	Total number of stormwater pumping stations	-	E7.20	nr	I/C																
E7.21	Total capacity of stormwater pumping stations	-	E7.21	m ³ /d	I/C																
E7.22	Number of combined sewer overflows	-	E7.22	nr	I/C																
E7.23	Number of combined sewer overflows (screened)	-	E7.23	nr	I/C																
Sewage treatment works																					
E7.24	Number of sewage treatment works	-	-	nr	I/C																
E7.25	Total Load	-	-	kg BOD/day	I/C																

Note: Sewerage costs are reported on Table E2

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ANNUAL RETURN INFORMATION REQUIREMENT

SECTION E : OPERATING COSTS AND EFFICIENCY
Table E8: 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		
Numbers																													
E8.1	Size Band 0	-	E8.1	nr	I/C	998	B3	14	B3	12	B3	81	B3	2	B3	1	B3	9	B3	1	B3	1	B3	0	AX	46	B3	1165	B3
E8.2	Size Band 1	T17c, L1	E8.2	nr	I/C	127	B3	12	B3	25	B3	48	B3	3	B3	0	AX	7	B3	3	B3	0	AX	1	B3	13	B3	239	B3
E8.3	Size Band 2	T17c, L2	E8.3	nr	I/C	55	B3	8	B3	15	B3	49	B3	2	B3	3	B3	10	B3	4	B3	3	B3	0	AX	8	B3	157	B3
E8.4	Size Band 3	T17c, L3	E8.4	nr	I/C	25	B3	17	B3	45	B3	68	B3	5	B3	1	B3	13	B3	4	B3	2	B3	2	B3	9	B3	191	B3
E8.5	Size Band 4	T17c, L4	E8.5	nr	I/C	1	B3	11	B3	44	B3	40	B3	6	B3	2	B3	8	B3	2	B3	4	B3	5	B3	3	B3	126	B3
E8.6	Size Band 5	T17c, L5	E8.6	nr	I/C	0	AX	2	B3	22	B3	5	B3	2	B3	1	B3	1	B3	0	AX	0	AX	0	AX	0	AX	33	B3
E8.7	Size Band 6 (Large Works)	T17c, L6	E8.7	nr	I/C	0	AX	0	AX	20	B3	1	B3	1	B3	0	AX	1	B3	0	AX	0	AX	0	AX	1	B3	24	B3
E8.8	Total Sewage Treatment Works	T17c, L7	E8.8	nr	C	1206	B3	64	B3	183	B3	292	B3	21	B3	8	B3	49	B3	14	B3	10	B3	8	B3	80	B3	1935	B3
E8.9	Small Sewage treatment works with ammonia consent 5 - 10 mg/l	T17c, L8	E8.9	nr	I/C	0	AX	1	A1	15	A1	31	A1	1	A1	1	A1	6	A1	1	A1	0	AX	0	AX	0	AX	56	A1
E8.10	Small Sewage treatment works with ammonia consent <= 5 mg/l	T17c, L9	E8.10	nr	I/C	1	A1	0	AX	13	A1	18	A1	8	A1	2	A1	4	A1	2	A1	0	AX	0	AX	0	AX	48	A1

Loading (average daily load)																				Total excluding Septic Tanks									
E8.11	Size Band 0	-	E8.11	kg BOD/day	I/C	1825	B3	45	B3	70	B3	256	B3	10	B3	7	B3	29	B3	5	B3	0	B3	0	AX	157	B3	579	B3
E8.12	Size Band 1	T17d, L1	E8.12	kg BOD/day	I/C	1322	B3	132	B3	273	B3	551	B3	30	B3	0	AX	77	B3	42	B3	0	AX	14	B3	149	B3	1268	B3
E8.13	Size Band 2	T17d, L2	E8.13	kg BOD/day	I/C	1220	B3	205	B3	372	B3	1122	B3	48	B3	65	B3	208	B3	93	B3	62	B3	0	AX	192	B3	2367	B3
E8.14	Size Band 3	T17d, L3	E8.14	kg BOD/day	I/C	1279	B3	1092	B3	3138	B3	4873	B3	346	B3	112	B3	697	B3	276	B3	157	B3	232	B3	451	B3	11374	B3
E8.15	Size Band 4	T17d, L4	E8.15	kg BOD/day	I/C	125	B3	3313	B3	14125	B3	11396	B3	1542	B3	868	B3	2186	B3	595	B3	1132	B3	1473	B3	615	B3	37245	B3
E8.16	Size Band 5	T17d, L5	E8.16	kg BOD/day	I/C	0	AX	1590	B3	19428	B3	4022	B3	2043	B3	624	B3	1087	B3	0	AX	0	AX	0	AX	0	AX	28794	B3
E8.17	Size Band 6 (large works)	T17d, L6	E8.17	kg BOD/day	I/C	0	AX	0	AX	117306	B3	3721	B3	16716	B3	0	AX	1592	B3	0	AX	0	AX	0	AX	4141	B3	143476	B3
E8.18	Total Load Received	T17d, L7	E8.18	kg BOD/day	C	5771	B3	6377	B3	154712	B3	25941	B3	20735	B3	1676	B3	5876	B3	1011	B3	1351	B3	1719	B3	5705	B3	225103	B3
E8.19	Small Sewage treatment works with ammonia consent 5 - 10 mg/l	T17d, L8	E8.19	kg BOD/day	I/C	0	AX	62	B3	5089	B3	2586	B3	56	B3	304	B3	793	B3	13	B3	0	AX	0	AX	0	AX	8903	B3
E8.20	Small Sewage treatment works with ammonia consent <= 5 mg/l	T17d, L9	E8.20	kg BOD/day	I/C	2	B3	0	AX	3957	B3	4198	B3	1331	B3	736	B3	199	B3	248	B3	0	AX	0	AX	0	AX	10669	B3

Compliance																													
E8.21	Size Band 0	-	E8.21	%	I	100.0	B2	75.0	B2	98.8	B2	100.0	B2	100.0	B2	100.0	B2	100.0	B2	100.0	B2	0.0	AX	100.0	B2	100.0	B2	100.0	B2
E8.22	Size Band 1	-	E8.22	%	I/C	100.0	B2	88.0	B2	91.7	B2	100.0	B2	0.0	AX	100.0	B2	100.0	B2	100.0	B2	0.0	AX	100.0	B2	100.0	B2	100.0	B2
E8.23	Size Band 2	-	E8.23	%	I/C	100.0	B2	93.3	B2	95.9	B2	100.0	B2	100.0	B2	80.0	B2	75.0	B2	100.0	B2	0.0	AX	100.0	B2	100.0	B2	100.0	B2
E8.24	Size Band 3	-	E8.24	%	I/C	94.1	B2	95.6	B2	94.1	B2	100.0	B2	100.0	B2	84.6	B2	100.0	B2	50.0	B2	100.0	B2	100.0	B2	100.0	B2	100.0	B2
E8.25	Size Band 4	-	E8.25	%	I/C	90.9	B2	79.5	B2	90.0	B2	100.0	B2	100.0	B2	100.0	B2	100.0	B2	75.0	B2	100.0	B2	100.0	B2	100.0	B2	100.0	B2
E8.26	Size Band 5	-	E8.26	%	I/C	50.0	B2	86.4	B2	80.0	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	0.0	AX
E8.27	Size Band 6 (large works)	-	E8.27	%	I/C	0.0	AX	95.0	B2	100.0	B2	100.0	B2	0.0	AX	100.0	B2	0.0	AX	0.0	AX	0.0	AX	0.0	AX	100.0	B2	100.0	B2
E8.28	Average compliance by works - all sizes	-	E8.28	%	I/C	95.3	B2	88.0	B2	94.5	B2	100.0	B2	100.0	B2	91.8	B2	92.9	B2	80.0	B2	100.0	B2	100.0	B2	100.0	B2	100.0	B2
E8.29	Small Sewage treatment works with ammonia consent 5 - 10 mg/l	-	E8.29	%	I/C	100.0	B2	86.7	B2	100.0	B2	100.0	B2	100.0	B2	83.3	B2	100.0	B2	0.0	AX	0.0	AX	0.0	AX	0.0	AX	0.0	AX
E8.30	Small Sewage treatment works with ammonia consent <= 5 mg/l	-	E8.30	%	I/C	0.0	AX	76.9	B2	94.4	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	0.0	AX

Costs																				Total									
E8.31	Direct costs for works in size band 0	-	E8.31	£000	I/C	670.215	A2	27.911	A2	103.926	A2	289.784	A2	9.780	A2	4.857	A2	53.021	A2	10.589	A2	0.118	A2	0.000	AX	25.310	A2	1195.511	A2
E8.32	Direct costs for works in size band 1	T17f, L1	E8.32	£000	I/C	520.258	A2	89.381	A2	304.118	A2	527.659	A2	46.848	A2	0.000	AX	79.119	A2	46.450	A2	0.000	AX	17.805	A2	17.345	A2	1648.983	A2
E8.33	Direct costs for works in size band 2	T17f, L2	E8.33	£000	I/C	389.154	A2	79.669	A2	279.386	A2	734.505	A2	49.749	A2	86.196	A2	154.945	A2	91.311	A2	16.244	A2	0.000	AX	14.771	A2	1895.930	A2
E8.34	Direct costs for works in size band 3	T17f, L3	E8.34	£000	I/C	397.511	A2	357.140	A2	1562.297	A2	1878.531	A2	189.346	A2	41.232	A2	303.722	A2	146.769	A2	33.768	A2	8.310	A2	65.638	A2	4984.264	A2
E8.35	Direct costs for works in size band 4	T17f, L4	E8.35	£000	I/C	34.626	A2	562.389	A2	3128.373	A2	2249.216	A2	358.285	A2	174.391	A2	495.883	A2	220.837	A2	85.859	A2	110.876	A2	48.692	A2	7469.427	A2
E8.36	Direct costs for works in size band 5	T17f, L5	E8.36	£000	I/C	0.000	AX	202.276	A2	3264.483	A2	410.971	A2	481.547	A2	105.882	A2	80.453	A2	0.000	AX	0.000	AX	0.000	AX	0.000	AX	4545.612	A2
E8.37	Direct costs for works in size band 6 (large works)	T17f, L6	E8.37	£000	I/C	0.000	AX	0.000	AX	7497.304	A2	359.669	A2	663.805	A2	0.000	AX	133.853	A2	0.000	AX	0.000	AX	0.000	AX	44.034	A2	8698.665	A2
E8.38	Direct costs for all sewage treatment works	T17f, L7	E8.38	£000	C	2011.764	A2	1318.766	A2	16139.887	A2	6450.335	A2	1799.360	A2	412.558	A2	1300.996	A2	515.956	A2	135.989	A2	136.991	A2	215.790	A2	30438.392	A2
E8.39	General and support expenditure	T17f, L12	E8.39	£000	I/C	256.949	A2	229.216	A2	3007.224	A2	1514.867	A2	293.156	A2	89.977	A2	331.168	A2	89.029	A2	18.349	A2	17.152	A2	18.866	A2	5865.953	A2
E8.40	Functional expenditure	T17f, L13	E8.40	£000	C	2268.713	A2	1547.982	A2	19147.111	A2	7965.202	A2	2092.516	A2	502.535	A2	1632.164	A2	604.985	A2	154.338	A2	154.143	A2	234.656	A2	36304.345	A2
E8.41	Power costs	T17f, L10	E8.41	£000	I/C	189.084	A2	410.553	A2	6299.476	A2	1404.006	A2	793.521	A2	132.011	A2	290.805	A2	180.607	A2	18.403	A2	26.177	A2	17.855	A2	9762.498	A2
E8.42	Service charges SEPA	T17f, L11	E8.42	£000	I/C	1222.197	A2	308.407	A2	2338.432	A2	1408.471	A2	205.729	A2	51.923	A2	247.784	A2	92.312	A2	72.076	A2	54.049	A2	143.619	A2	6144.999	A2

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SECTION E : OPERATING COSTS AND EFFICIENCY
Table E8: Wastewater Explanatory Factors - Sewage Treatment Works

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	199
						Septic Tanks	Primary	Sec Activated Sludge	Sec biological	Tertiary A1	Tertiary A2	Tertiary B1	Tertiary B2	Sea Preliminary	Sea Screened	Sea Unscreened	Total
						Comment Necessary?	Comment Necessary?	Comment Necessary?	Comment Necessary?	Comment Necessary?	Comment Necessary?	Comment Necessary?	Comment Necessary?	Comment Necessary?	Comment Necessary?	Comment Necessary?	Comment Necessary?
Numbers																	
E8.1	Size Band 0	-	E8.1	nr	UC	N	N	N	N	N	N	N	N	N	N	N	N
E8.2	Size Band 1	T17c. L1	E8.2	nr	UC	N	N	N	N	N	N	N	N	N	N	N	N
E8.3	Size Band 2	T17c. L2	E8.3	nr	UC	N	N	N	N	N	N	N	N	N	N	N	N
E8.4	Size Band 3	T17c. L3	E8.4	nr	UC	N	N	N	N	N	N	N	N	N	N	N	N
E8.5	Size Band 4	T17c. L4	E8.5	nr	UC	N	N	N	N	N	N	N	N	N	N	N	N
E8.6	Size Band 5	T17c. L5	E8.6	nr	UC	N	N	N	N	N	N	N	N	N	N	N	N
E8.7	Size Band 6 (Large Works)	T17c. L6	E8.7	nr	UC	N	N	N	N	N	N	N	N	N	N	N	N
E8.8	Total Sewage Treatment Works	T17c. L7	E8.8	c	C	N	N	N	N	N	N	N	N	N	N	N	N
E8.9	Small Sewage treatment works with ammonia consent <= 10 mg/l	T17c. L8	E8.9	nr	UC	N	N	N	N	N	N	N	N	N	N	N	N
E8.10	Small Sewage treatment works with ammonia consent <= 5 mg/l	T17c. L9	E8.10	nr	UC	N	N	N	N	N	N	N	N	N	N	N	N
Loading (average daily load)																	
E8.11	Size Band 0	-	E8.11	kg BOD/day	UC	N	N	N	N	N	N	N	N	N	N	N	N
E8.12	Size Band 1	T17d. L1	E8.12	kg BOD/day	UC	N	N	N	N	N	N	N	N	N	N	N	N
E8.13	Size Band 2	T17d. L2	E8.13	kg BOD/day	UC	N	N	N	N	N	N	N	N	N	N	N	N
E8.14	Size Band 3	T17d. L3	E8.14	kg BOD/day	UC	N	N	N	N	N	N	N	N	N	N	N	N
E8.15	Size Band 4	T17d. L4	E8.15	kg BOD/day	UC	N	N	N	N	N	N	N	N	N	N	N	N
E8.16	Size Band 5	T17d. L5	E8.16	kg BOD/day	UC	N	N	N	N	N	N	N	N	N	N	N	N
E8.17	Size Band 6 (Large Works)	T17d. L6	E8.17	kg BOD/day	UC	N	N	N	N	N	N	N	N	N	N	N	N
E8.18	Total Load Received	T17d. L7	E8.18	kg BOD/day	C	N	N	N	N	N	N	N	N	N	N	N	N
E8.19	Small Sewage treatment works with ammonia consent <= 10 mg/l	T17d. L8	E8.19	kg BOD/day	UC	N	N	N	N	N	N	N	N	N	N	N	N
E8.20	Small Sewage treatment works with ammonia consent <= 5 mg/l	T17d. L9	E8.20	kg BOD/day	UC	N	N	N	N	N	N	N	N	N	N	N	N
Compliance																	
E8.21	Size Band 0	-	E8.21	%	I	N	N	N	N	N	N	N	N	N	N	N	N
E8.22	Size Band 1	-	E8.22	%	UC	N	N	N	N	N	N	N	N	N	N	N	N
E8.23	Size Band 2	-	E8.23	%	UC	N	N	N	N	N	N	N	N	N	N	N	N
E8.24	Size Band 3	-	E8.24	%	UC	N	N	N	N	N	N	N	N	N	N	N	N
E8.25	Size Band 4	-	E8.25	%	UC	N	N	N	N	N	N	N	N	N	N	N	N
E8.26	Size Band 5	-	E8.26	%	UC	N	N	N	N	N	N	N	N	N	N	N	N
E8.27	Size Band 6 (Large Works)	-	E8.27	%	UC	N	N	N	N	N	N	N	N	N	N	N	N
E8.28	Average compliance by works - all sizes	-	E8.28	%	UC	N	N	N	N	N	N	N	N	N	N	N	N
E8.29	Small Sewage treatment works with ammonia consent <= 10 mg/l	-	E8.29	%	UC	N	N	N	N	N	N	N	N	N	N	N	N
E8.30	Small Sewage treatment works with ammonia consent <= 5 mg/l	-	E8.30	%	UC	N	N	N	N	N	N	N	N	N	N	N	N
Costs																	
E8.31	Direct costs for works in size band 0	-	E8.31	£000	UC	N	N	N	N	N	N	N	N	N	N	N	N
E8.32	Direct costs for works in size band 1	T17f. L1	E8.32	£000	UC	N	N	N	N	N	N	N	N	N	N	N	N
E8.33	Direct costs for works in size band 2	T17f. L2	E8.33	£000	UC	N	N	N	N	N	N	N	N	N	N	N	N
E8.34	Direct costs for works in size band 3	T17f. L3	E8.34	£000	UC	N	N	N	N	N	N	N	N	N	N	N	N
E8.35	Direct costs for works in size band 4	T17f. L4	E8.35	£000	UC	N	N	N	N	N	N	N	N	N	N	N	N
E8.36	Direct costs for works in size band 5	T17f. L5	E8.36	£000	UC	N	N	N	N	N	N	N	N	N	N	N	N
E8.37	Direct costs for works in size band 6 (large works)	T17f. L6	E8.37	£000	UC	N	N	N	N	N	N	N	N	N	N	N	N
E8.38	Direct costs for all sewage treatment works	T17f. L7	E8.38	£000	C	N	N	N	N	N	N	N	N	N	N	N	N
E8.39	General and support expenditure	T17f. L12	E8.39	£000	UC	N	N	N	N	N	N	N	N	N	N	N	N
E8.40	Functional expenditure	T17f. L13	E8.40	£000	C	N	N	N	N	N	N	N	N	N	N	N	N
E8.41	Power costs	T17f. L10	E8.41	£000	UC	N	N	N	N	N	N	N	N	N	N	N	N
E8.42	Service charges SEPA	T17f. L11	E8.42	£000	UC	N	N	N	N	N	N	N	N	N	N	N	N

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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 1	20 2	30 3	40 4	50 5	60 6	70 7	80 8	90 9	100 10
Works Size						CG	CG	CG	CG	CG	CG	CG	CG	CG	
E9.0	Name	T17b, L1	E9.0	Name	I	Allers Nith	Alloa Forth	Ardoch Forth	Bo'ness Tweed	Carbarns Nith	Dalderse Forth	Daldowie Nith	Dalmarnock Clyde	Dunbar Tweed	Dunfermline Tay
E9.1	Population equivalent of total load received	T17b, L2	E9.5	000	I	49 B3	41 B3	71 B3	27 B3	47 B3	92 B3	279 B3	296 B3	27 B3	37
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	99 A1	100 A1	99 A1	100 A1	97 A1	100 A1	100 A1	100 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	91.875 A2	121.781 A2	198.426 A2	55.254 A2	122.769 A2	203.110 A2	443.275 A2	366.510 A2	141.394 A2	60.900
E9.16	Service charges SEPA	T17b, L11	E9.37	£'000	I	21.068 A2	20.793 A2	32.060 A2	21.105 A2	41.806 A2	133.888 A2	56.299 A2	52.646 A2	2.499 A2	35.344
E9.17	Total direct costs	T17b, L9	E9.39	£'000	I	209.473 A2	255.069 A2	425.840 A2	165.991 A2	257.538 A2	394.818 A2	663.805 A2	740.248 A2	210.038 A2	151.345
E9.18	General and support expenditure	T17b, L12	E9.40	£'000	I	49.743 A2	44.071 A2	68.311 A2	33.303 A2	44.608 A2	24.291 A2	77.720 A2	140.840 A2	19.893 A2	15.124
E9.19	Functional Expenditure	T17b, L13	E9.41	£'000	C	259 A2	299 A2	494 A2	199 A2	302 A2	419 A2	742 A2	881 A2	230 A2	166
E9.20	Estimated terminal pumping station costs	T17b, L14	E9.42	£'000	I	0.000 N	0.000 N	133.993 A2	0.000 N	0.000 N	0.000 N	0.000 N	109.953 A2	0.000 N	18.270
E9.21	Estimated sludge costs	T17b, L15	E9.43	£'000	I	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

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	110	120	130	140	150	160	170	180	190	200	210	220	230	240
CG	11	12	13	14	15	16	17	18	19	20	21	22	23	24
	Dunnswood Nith	Erskine Ayr	Galashiels Tweed	Hamilton Nith	Iron Mill Bay Tay	Kinneil Kerse Tweed	Kirkcaldy Tay	Laighpark (Paisley) Ayr	Perth Tay	Philipshill Nith	Shieldhall Clyde	Stirling Forth	Troqueer Nith	
B3	31	75	27	62	42	49	62	214	98	60	514	72	48	
A1	100	100	0	100	100	100	100	100	100	100	100	100	100	
A1	10	25	25	20	25	25	25	15	25	10	20	25	20	
A1	125	125	0	125	125	125	125	125	125	125	125	125	125	
N	5	30	15	5	30	15	0	20	30	2	20	15	0	
N	0	0	0	0	0	0	0	0	0	0	0	0	0	
A1	96	100	100	100	100	100	100	100	100	99	100	99	100	
A1	1	1	1	1	1	0	1	1	1	1	1	1	1	
A1	1	1	0	1	1	1	0	1	1	1	1	1	1	
N	0	0	1	0	0	0	1	0	0	0	0	0	0	
N	0	0	0	0	0	0	0	0	0	0	0	0	0	
N	0	0	0	0	0	0	0	0	0	0	0	0	0	
N	0	0	1	0	0	0	0	0	0	0	0	0	0	
N	0	0	0	0	0	0	0	0	0	0	0	0	0	
A2	97.249	140.326	31.711	249.449	65.065	81.466	218.799	251.351	66.984	123.331	723.673	201.248	69.119	
A2	20.932	19.029	11.740	25.145	19.441	173.223	38.076	338.523	24.068	41.456	145.320	29.736	13.637	
A2	266.759	316.144	133.853	418.547	118.799	302.316	359.669	714.115	162.827	299.835	1567.961	353.707	165.933	
A2	64.964	41.444	16.880	59.031	16.759	19.701	24.714	39.213	37.964	62.244	324.072	49.678	26.044	
A2	332	358	151	478	136	322	384	753	201	362	1892	403	192	0
A2	0.000	0.000	3.511	0.000	19.520	28.271	54.700	75.405	21.967	0.000	217.482	60.374	20.686	
N	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	

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

Line Ref.	Description	Ofwat Ref JR 07	WICS Reference AR 06	Units	Field Type	10	11	12	Disposal category						199							
						Farmland Untreated		Farmland Conventional		Farmland Advanced		Incineration		Landfill		Composted		Land Reclamation		Other		Total
						CG	CG	CG	CG	CG	CG	CG	CG	CG	CG	CG	CG	CG	CG			
Sludge volumes																						
E10.1	Resident population served	T17g, L1	E10.1	000	I	0.0	455.7	647.3	1266.3	98.6	83.9	29.2	6.7	2587.7								
E10.2	Amount of sewage sludge	T17g, L2	E10.2	ttds	I	0.0	6.4	13.0	0.0	0.6	1.5	0.0	0.0	21.4								
Sludge Treatment and Disposal costs																						
E10.3	Sludge Treatment direct costs	T17g, L3	-	£000	I	0.000	2085.966	3887.181	0.000	494.349	691.309	0.000	0.000	7158.805								
E10.4	Sludge disposal direct costs	T17g, L4	-	£000	I	0.000	412.981	1276.094	0.000	227.849	208.770	0.000	0.000	2125.694								
E10.5	Sludge treatment & disposal: Power costs	T17g, L6	E10.4	£000	I	0.000	357.434	691.704	0.000	74.234	82.628	0.000	0.000	1206.000								
E10.6	Sludge treatment & disposal: Service charges SEPA	T17g, L7	E10.7	£000	I	0.000	73.135	25.151	0.000	1.655	8.059	0.000	0.000	108.000								
E10.7	Sludge treatment & disposal: Total direct costs	T17g, L5	E10.9	£000	C	0.000	2498.947	5163.275	0.000	722.198	900.079	0.000	0.000	9284.499								
E10.8	Sludge treatment and disposal: General and support	T17g, L8	E10.10	£000	I	0.000	717.508	1033.426	0.000	204.600	281.466	0.000	0.000	2237.000								
E10.9	Sludge Treatment and disposal: Functional Expenditu	T17g, L9	E10.11	£000	C	0.000	3216.455	6196.701	0.000	926.798	1181.545	0.000	0.000	11521.499								

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ANNUAL RETURN INFORMATION REQUIREMENTS

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

Line Ref.	Description	Ofwat Ref JR 07	WICS Reference AR 06	Units	Field Type
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Sludge volumes					
E10.1	Resident population served	T17g. L1	E10.1	000	I
E10.2	Amount of sewage sludge	T17g. L2	E10.2	tds	I

Sludge Treatment and Disposal costs					
E10.3	Sludge treatment direct costs	T17g. L3	-	£000	I
E10.4	Sludge disposal direct costs	T17g. L4	-	£000	I
E10.5	Sludge treatment & disposal: Power costs	T17g. L6	E10.4	£000	I
E10.6	Sludge treatment & disposal: Service charges SEPA	T17g. L7	E10.7	£000	I
E10.7	Sludge treatment & disposal: Total direct costs	T17g. L5	E10.9	£000	C

E10.8	Sludge treatment and disposal: General and support	T17g. L8	E10.10	£000	I
E10.9	Sludge Treatment and disposal: Functional Expendit	T17g. L9	E10.11	£000	C

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	10 Farmland Untreated	11 Farmland Conventional	12 Farmland Advanced	20 Incineration	30 Landfill	31 Composted	32 Land Reclamation	50 Other	199 Total
Comment Necessary?									
E10.1	N	Y	Y	Y	Y	Y	Y	Y	Y
E10.2	N	Y	Y	N	Y	Y	N	N	N
E10.3	N	N	N	N	N	N	N	N	N
E10.4	N	N	N	N	N	N	N	N	N
E10.5	N	N	N	N	N	N	N	N	N
E10.6	N	N	N	N	N	N	N	N	N
E10.7	N	N	N	N	N	N	N	N	N
E10.8	N	N	N	N	N	N	N	N	N
E10.9	N	N	N	N	N	N	N	N	N

ANNUAL RETURN INFORMATION REQUIREMENTS

SECTION E : OPERATING COSTS AND EFFICIENCY
Table E11: Management and General

Line Ref.	Description	Ofwat Ref JR 07	WICS Reference AR 06	Units	Field Type	10		20	
						Water Service	CG	Wastewater Service	CG
Employee numbers									
E11.1	Direct operations	-	E11.1	nr	I	620	B2	467	B2
E11.2	Indirect operations (General and support)	-	E11.2	nr	I	351	B2	267	B2
E11.3	Other (incl hired and contracted)	-	E11.3	nr	I	405	B2	231	B2
E11.4	Total employee numbers	-	E11.4	nr	C	1375	B2	965	B2
Management and General Assets									
E11.5	Number of Offices	-	E11.5	nr	I	10	B2	10	B2
E11.6	Area of Offices	-	E11.6	m ²	I	20746	B2	14560	B2
E11.7	Number of Laboratories	-	E11.7	nr	I	4	B2	4	B2
E11.8	Area of Laboratories	-	E11.8	m ²	I	3104	B2	2179	B2
E11.9	Number of Depots	-	E11.9	nr	I	52	B4	52	B4
E11.10	Area of Depots	-	E11.10	m ²	I	45886	B4	32203	B4
E11.11	Number of Workshops	-	E11.11	nr	I	0	A1	0	A1
E11.12	Area of Workshops	-	E11.12	m ²	I	0	A1	0	A1
E11.13	Number of Control Centres	-	E11.13	nr	I	1	A1	1	A1
E11.14	Area of Control Centres	-	E11.14	m ²	I	468	C3	328	C3
E11.15	Vehicles & Plant	-	E11.15	£m	I	20.974	B3	14.720	B3
E11.16	% Coverage of Telemetry Systems	-	E11.16	%	I	55	A3	29	A3
E11.17	Number of Telemetry Outstations	-	E11.17	nr	I	1672	A3	2359	A3
E11.18	Information Systems: Personal Computers	-	E11.18	nr	I	2417	A2	2417	A2
E11.19	Information Systems: Workstations	-	E11.19	nr	I	2346	A2	2346	A2
E11.20	Information Systems: Mainframes	-	E11.20	nr	I	445	A2	445	A2

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SECTION E : OPERATING COSTS AND EFFICIENCY
Table E11: Management and General

Line Ref.	Description	Ofwat Ref JR 07	WICS Reference AR 06	Units	Field Type
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Employee numbers					
E11.1	Direct operations	-	E11.1	nr	I
E11.2	Indirect operations (General and support)	-	E11.2	nr	I
E11.3	Other (incl hired and contracted)	-	E11.3	nr	I
E11.4	Total employee numbers	-	E11.4	nr	C

Management and General Assets					
E11.5	Number of Offices	-	E11.5	nr	I
E11.6	Area of Offices	-	E11.6	m ²	I
E11.7	Number of Laboratories	-	E11.7	nr	I
E11.8	Area of Laboratories	-	E11.8	m ²	I
E11.9	Number of Depots	-	E11.9	nr	I
E11.10	Area of Depots	-	E11.10	m ²	I
E11.11	Number of Workshops	-	E11.11	nr	I
E11.12	Area of Workshops	-	E11.12	m ²	I
E11.13	Number of Control Centres	-	E11.13	nr	I
E11.14	Area of Control Centres	-	E11.14	m ²	I
E11.15	Vehicles & Plant	-	E11.15	£m	I
E11.16	% Coverage of Telemetry Systems	-	E11.16	%	I
E11.17	Number of Telemetry Outstations	-	E11.17	nr	I
E11.18	Information Systems: Personal Computers	-	E11.18	nr	I
E11.19	Information Systems: Workstations	-	E11.19	nr	I
E11.20	Information Systems: Mainframes	-	E11.20	nr	I

10
Water Service

20
Wastewater Service

Comment Necessary?

Comment Necessary?

N	N
N	N
N	N
N	N
Y	Y
Y	Y
N	N
N	N
N	N
Y	Y
N	N
N	N
N	N
N	N
N	N
N	N
N	N
N	N
N	N
N	N
N	N

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CONFIDENCE GRADES LOOK UP TABLE

General		Benchmarking A1		Benchmarking A2		Benchmarking B2	
A1	G	A1	G	A1	G	A1	G
A2	G	A2	N	A2	G	A2	G
A3	G	A3	N	A3	N	A3	G
A4	N	A4	N	A4	N	A4	N
AX	G	AX	G	AX	G	AX	G
B2	G	B2	N	B2	N	B2	G
B3	G	B3	N	B3	N	B3	N
B4	N	B4	N	B4	N	B4	N
BX	G	BX	N	BX	N	BX	G
C2	N	C2	N	C2	N	C2	N
C3	N	C3	N	C3	N	C3	N
C4	N	C4	N	C4	N	C4	N
C5	N	C5	N	C5	N	C5	N
CX	N	CX	N	CX	N	CX	N
M	N	M	N	M	N	M	N
N	N	N	N	N	N	N	N
D3	N	D3	N	D3	N	D3	N
D4	N	D4	N	D4	N	D4	N
D5	N	D5	N	D5	N	D5	N
D6	N	D6	N	D6	N	D6	N
DX	N	DX	N	DX	N	DX	N