

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

Report Year 2006-07

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	12.273	A2	18.907	A2	31.180	A2
E1.2	Power	T21, L2	E1.2	£m	I/C	7.607	A2	5.122	A2	12.729	A2
E1.3	Hired and contracted services	T21, L4	E1.3	£m	I/C	2.971	A2	3.409	A2	6.380	A2
E1.4	Materials and consumables	T21, L6	E1.5	£m	I/C	9.358	A2	1.334	A2	10.692	A2
E1.5	Service charges by SEPA	T21, L7	E1.6	£m	I/C	2.011	A2	0.015	A2	2.026	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	1.235	A2	3.507	A2	4.742	A2
E1.8	Total direct costs	T21, L10	E1.9	£m	C	35.455	A2	32.294	A2	67.749	A2
E1.9	General and support costs	T21, L11	E1.10 + E1.11	£m	I/C	7.732	A2	11.278	A2	19.010	A2
E1.10	Functional expenditure	T21, L12	E1.12	£m	C	43.187		43.572		86.759	A2
Operating Expenditure											
E1.11	Customer services	T21, L13	E1.13	£m	I					11.087	A2
E1.12	Scientific services	T21, L14	E1.14	£m	I					10.878	A2
E1.13	Other business activities	T21, L15	E1.15	£m	I					3.260	A2
E1.14	Total business activities	T21, L16	E1.16	£m	C					25.225	A2
E1.15	Local authority rates	T21, L17	E1.17	£m	I					18.163	A2
E1.16	Doubtful debts	T21, L18	E1.18	£m	I					8.000	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					138.147	A2
E1.19	Third party services - opex	T21, L21	E1.25	£m	I					22.106	A2
E1.20	Total operating expenditure	T21, L22	E1.26	£m	C					160.253	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	14.774	A3	14.774	A3
E1.22	Reactive and planned maintenance non-infrastructure	T21, L24	E1.28	£m	I/C	4.868	A3	2.022	A3	6.890	A3
Capital Maintenance											
E1.23	Infrastructure depreciation charge	T21, L25	E1.29	£m	I/C	4.525	A2	49.890	A2	54.415	A2
E1.24	Non-Infrastructure depreciation charge	T21, L26	E1.30	£m	I/C	42.459	A2	15.686	A2	58.145	A2
E1.25	Amortisation of deferred credits	T21, L27	E1.31	£m	I					-0.729	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					2.641	A2
E1.28	Capital maintenance less third party services	T21, L30	E1.34	£m	C					114.472	A2
E1.29	Third party services - depreciation	T21, L31 + L32	E1.35	£m	I					0.888	A2
E1.30	Total capital maintenance	T21, L33	E1.36	£m	C					115.360	A2
Total operating costs											
E1.31	Total operating costs	T21, L34	E1.39	£m	C					275.613	A2

Prepared by: Date: 15/06/07
 Checked by: Date: 15/06/07
 Authorised by: Douglas Millican Date: 15/06/07

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
-----------	-------------	-----------------	----------------------	-------	------------

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
-------	------------------------	----------	-------	----	---

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
-------	-------------------------	----------	-------	----	---

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
-------	-----------------------------	----------	-------	----	---

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
-------	---------------------------	----------	-------	----	---

Total operating costs

E1.31	Total operating costs	T21, L34	E1.39	£m	C
-------	-----------------------	----------	-------	----	---

10
Report Year 2006-07
Water Resources &

20
Report Year 2006-07
Water Distribution

199
Report Year 2006-07
Water Service Total

Comment Necessary?

Comment Necessary?

Comment Necessary?

Y
Y
Y
Y
Y
Y
Y

Y
Y
Y
Y
Y
Y
Y

Y
Y
Y
Y
Y
Y
Y

Y
Y

Y
Y

Y
Y

#N/A

#N/A

Y

#N/A
#N/A
#N/A
#N/A

#N/A
#N/A
#N/A
#N/A

Y
Y
Y
Y

#N/A
#N/A

#N/A
#N/A

Y
Y

#N/A

#N/A

Y

#N/A
#N/A

#N/A
#N/A

Y
Y

#N/A

#N/A

Y

Y
Y

Y
Y

Y
Y

Y
Y
#N/A
#N/A
#N/A

Y
Y
#N/A
#N/A
#N/A

Y
Y
Y
Y
Y

#N/A
#N/A

#N/A
#N/A

Y
Y

#N/A

#N/A

Y

#N/A

#N/A

Y

Prepared by: Date: 15/06/07
 Checked by: Date: 15/06/07
 Authorised by: Douglas Millican Date: 15/06/07

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

Report Year 2006-07

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	NW	NE	SE	SW										
E2.1	Employment costs	T22, L1	E2.1	£m	I/C	2.315	3.318	2.558	4.099					12.290	9.469	2.286	24.045	A2	
E2.2	Power	T22, L2	E2.2	£m	I/C	0.611	1.117	0.791	2.568					5.087	8.374	0.941	14.402	A2	
E2.3	Hired and contracted services	T22, L4	E2.3	£m	I/C	0.641	1.372	0.502	1.336					3.851	2.458	3.582	9.891	A2	
E2.4	Materials and consumables	T22, L6	E2.5	£m	I/C	0.160	0.258	0.126	0.084					0.628	1.774	0.515	2.917	A2	
E2.5	Service charges by SEPA	T22, L7	E2.6	£m	I/C	0.192	0.252	0.191	0.571					1.206	5.688	0.046	6.940	A2	
E2.6	Other direct costs	T22, L8	E2.8	£m	I/C	0.203	0.350	0.352	1.003					1.908	0.827	0.040	2.775	A2	
E2.7	Total direct costs	T22, L9	E2.9	£m	C	4.122	6.667	4.520	9.661	0.000	0.000	0.000	0.000	24.970	28.590	7.410	60.970	A2	
E2.8	General and support costs	T22, L10	E2.10 + E2.11	£m	I/C	1.677	2.099	1.718	2.329					7.823	6.255	1.763	15.841	A2	
E2.9	Functional expenditure	T22, L11	E2.12	£m	C	5.799	8.766	6.238	11.990	0.000	0.000	0.000	0.000	32.793	34.845	9.173	76.811	A2	
Operating Expenditure																			
E2.10	Customer services	T22, L12	E2.13	£m	I													11.450	A2
E2.11	Scientific services	T22, L13	E2.14	£m	I													2.210	A2
E2.12	Other business activities	T22, L14	E2.15	£m	I													3.276	A2
E2.13	Total business activities	T22, L15	E2.16	£m	C													16.936	A2
E2.14	Local authority rates	T22, L16	E2.17	£m	I													9.285	A2
E2.15	Doubtful debts	T22, L17	E2.18	£m	I													8.727	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													111.759	A2
E2.18	Third party services - opex	T22, L20	E2.25	£m	I													10.828	A2
E2.19	Total operating expenditure	T22, L21	E2.26	£m	C													122.587	A2
Reactive and Planned Maintenance (included in Opex)																			
E2.20	Reactive and planned maintenance infrastructure	T22, L22	E2.27	£m	I/C	1.563	2.243	2.376	4.080					10.262	0.000	0.000	10.262	A3	
E2.21	Reactive and planned maintenance non-infrastructure	T22, L23	E2.28	£m	I/C	0.885	1.472	0.724	0.800					3.881	5.430	0.621	9.932	A3	
Capital Maintenance																			
E2.22	Infrastructure depreciation charge	T22, L24	E2.29	£m	I/C													33.526	A2
E2.23	Non-infrastructure depreciation charge	T22, L25	E2.30	£m	I/C													24.094	A2
E2.24	Amortisation of deferred credits	T22, L26	E2.31	£m	I													48.048	A2
E2.25	Amortisation of intangible assets	T22, L27	E2.32	£m	I													1.566	A2
E2.26	Business activities depreciation charge	T22, L28	E2.33	£m	I													-0.377	A2
E2.27	Capital maintenance less third party services	T22, L29	E2.34	£m	C													0.000	N
E2.28	Third party services - depreciation	T22, L30 + L31	E2.35	£m	I													1.504	A2
E2.29	Total capital maintenance	T22, L32	E2.36	£m	C													108.361	A2
E2.28	Third party services - depreciation	T22, L30 + L31	E2.35	£m	I													0.377	A2
E2.29	Total capital maintenance	T22, L32	E2.36	£m	C													108.738	A2
Total Operating Costs																			
E2.30	Total operating costs	T22, L33	E2.39	£m	C													231.325	A2

Prepared by: Date: 15/06/07
 Checked by: Date: 15/06/07
 Authorised by: Douglas Millican Date: 15/06/07

ANNUAL RETURN INFORMATION REQUIREMENT

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

999
Report Year 2006-07
Comment Necessary?

Line Ref.	Description	Ofwat Ref JR 07	WICS Reference AR 06	Units	Field Type
-----------	-------------	--------------------	-------------------------	-------	------------

Service Analysis - Waste Water Direct Costs

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

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

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

Operating Expenditure

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

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

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

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

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

Reactive and Planned Maintenance (included in Opex)

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

Capital Maintenance

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

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

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

Total Operating Costs

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

Prepared by:	Date: 15/06/07
Checked by:	Date: 15/06/07
Authorised by: Douglas Millican	Date: 15/06/07

ANNUAL RETURN INFORMATION REQUIREMENT

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
						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
Project Data						Ft William	Inverness	Hatton	Nigg	Persley	Peterhead	Fraserburgh	Lossiemouth	Buckie	Banff/Macduff	Seafield	Newbridge	East Calder
E3.0	Name	-	E3.0		I	8.2	53.8	182.2	190.6	18.7	22.2	18.4	32.3	13.3	9.9	517.4	19.6	65.9
E3.1	Annual average resident connected population	-	E3.1	000	I/C	1.1	2.5	2.4	2.7	0.5	0.6	0.5	0.9	0.6	0.5	10.3	0.2	0.3
E3.2	Annual average non-resident connected population	-	E3.2	000	I/C	17.9	88.0	264.6	299.3	31.6	55.3	44.0	39.6	30.5	13.2	802.3	40.3	107.4
E3.3	Population equivalent of total load received	-	E3.5	000	I/C													
Scope of Works																		
E3.4	Sewerage	-	E3.7	1/0	I	1	1	1	1	1	1	1	1	1	1	1	1	0
E3.5	Sewage Treatment	-	E3.8	1/0	I	1	1	1	1	1	1	1	1	1	1	1	1	1
E3.6	Sludge Treatment	-	E3.9	1/0	I	0	1	1	1	0	1	0	1	0	0	1	1	1
E3.7	Terminal Pumping Station	-	E3.10	1/0	I	1	1	1	1	0	1	1	1	1	1	1	1	1
E3.8	Other (state details)	-	E3.11	1/0	I	0	0	0	0	0	0	0	0	0	0	0	0	0
Sewage Treatment - Effluent Consent Standard																		
E3.9	Suspended solids consent	-	E3.17	mg/l	I	35	35	0	0	40	0	0	0	0	0	150	100	0
E3.10	BOD consent	-	E3.18	mg/l	I	25	25	0	0	35	0	0	0	0	0	0	15	15
E3.11	COD consent	-	E3.19	mg/l	I	0	0	0	0	0	0	0	0	0	0	0	0	0
E3.12	Ammonia consent	-	E3.20	mg/l	I	0	0	50	0	35	0	0	0	0	0	0	7	2
E3.13	Phosphate consent	-	E3.21	mg/l	I	0	0	0	0	2	0	0	0	0	0	0	1	1
E3.14	Compliance with effluent consent standard	-	E3.22	%	I	100	100	100	0	100	0	0	0	0	0	100	98	92
Treatment Works Category																		
E3.15	Primary	-	E3.25	1/0	I	1	1	1	1	0	1	1	0	0	0	1	1	1
E3.16	Secondary activated sludge	-	E3.26	1/0	I	1	1	1	1	1	1	1	1	1	1	1	1	1
E3.17	Secondary biological	-	E3.27	1/0	I	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	1
E3.19	Tertiary A2	-	E3.29	1/0	I	0	1	0	0	1	0	1	0	0	1	1	1	1
E3.20	Tertiary B1	-	E3.30	1/0	I	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
Sewerage Data																		
E3.22	Total length of sewer	-	E3.47	km	I	4.28	10.74	40.30	19.20	0.41	0.96	1.80	35.80	19.20	7.45	44.05	3.06	0.00
E3.23	Length of critical sewer	-	E3.48	km	I	4.28	10.74	40.30	19.20	0.41	0.96	1.80	35.80	19.20	7.45	44.05	3.06	0.00
E3.24	Number of pumping stations	-	E3.49	nr	I	4	4	16	6	0	0	1	7	12	10	7	2	0
E3.25	Capacity of pumping stations (m ³ /d)	-	E3.50	m ³ /day	I	65992	247622	2495439	33506	0	0	16848	236563	44240	239242	238723	27043	0
E3.26	Capacity of pumping stations (kw)	-	E3.51	kw	I	59	806	6310	678	0	0	0	325	525	571	713	26	0
E3.27	Number of combined pumping stations	-	E3.52	nr	I	2	1	7	5	0	0	0	4	8	7	6	1	0
E3.28	Capacity of combined pumping stations (m ³ /d)	-	E3.53	m ³ /day	I	4821	34214	209002	33506	0	0	0	65232	23599	115949	116035	10109	0
E3.29	Number of stormwater pumping stations	-	E3.54	nr	I	0	2	6	0	0	0	0	1	1	1	0	0	0
E3.30	Capacity of stormwater pumping stations (m ³ /d)	-	E3.55	m ³ /day	I	0	209088	2134598	0	0	0	0	142560	6394	56419	0	0	0
E3.31	Number of combined sewer overflows	-	E3.56	nr	I	2	1	9	5	0	0	1	4	10	8	9	1	0
E3.32	Number of combined sewer overflows (screened)	-	E3.57	nr	I	2	1	9	5	0	0	1	4	10	8	9	1	0
Sludge Treatment and Disposal Data																		
E3.33	Farmland Untreated	-	E3.58	ttts	I/C	0	0	0	0	0	0	0	0	0	0	0	0	0
E3.34	Farmland Conventional	-	E3.59	ttts	I/C	0	2	0	0	0	0	0	0	0	0	0	3	0
E3.35	Farmland Advanced	-	E3.60	ttts	I/C	0	0	4	13	0	1	0	2	0	0	4	0	0
E3.36	Incineration	-	E3.62	ttts	I/C	0	0	0	0	0	0	0	0	0	0	0	0	0
E3.37	Landfill	-	E3.61	ttts	I/C	0	0	0	0	0	0	0	0	0	0	1	0	0
E3.38	Composted	-	E3.63	ttts	I/C	0	0	0	0	0	0	0	0	0	0	0	0	0
E3.39	Land Reclamation	-	E3.64	ttts	I/C	0	0	0	0	0	0	0	0	0	0	6	0	0
E3.40	Other	-	E3.65	ttts	I/C	0	0	0	0	0	0	0	0	0	0	4	0	0

Prepared by: Date: 15/06/07
 Checked by: Date: 15/06/07
 Authorised by: Douglas Millican Date: 15/06/07

ANNUAL RETURN INFORMATION REQUIREMENT

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

Line Ref.	Description	Ofwat Ref JR 06	WICS Reference AR 06	Units	Field Type
Project Data					
E3.0	Name	-	E3.0		I
E3.1	Annual average resident connected population	-	E3.1	000	IC
E3.2	Annual average non-resident connected population	-	E3.2	000	IC
E3.3	Population equivalent of total load received	-	E3.5	000	IC
Scope of Works					
E3.4	Sewerage	-	E3.7	1/0	I
E3.5	Sewage Treatment	-	E3.8	1/0	I
E3.6	Sludge Treatment	-	E3.9	1/0	I
E3.7	Terminal Pumping Station	-	E3.10	1/0	I
E3.8	Other (state details)	-	E3.11	1/0	I
Sewage Treatment - Effluent Consent Standard					
E3.9	Suspended solids consent	-	E3.17	mg/l	I
E3.10	BOD consent	-	E3.18	mg/l	I
E3.11	COD consent	-	E3.19	mg/l	I
E3.12	Ammonia consent	-	E3.20	mg/l	I
E3.13	Phosphate consent	-	E3.21	mg/l	I
E3.14	Compliance with effluent consent standard	-	E3.22	%	I
Treatment Works Category					
E3.15	Primary	-	E3.25	1/0	I
E3.16	Secondary activated sludge	-	E3.26	1/0	I
E3.17	Secondary biological	-	E3.27	1/0	I
E3.18	Tertiary A1	-	E3.28	1/0	I
E3.19	Tertiary A2	-	E3.29	1/0	I
E3.20	Tertiary B1	-	E3.30	1/0	I
E3.21	Tertiary B2	-	E3.31	1/0	I
Sewerage Data					
E3.22	Total length of sewer	-	E3.47	km	I
E3.23	Length of critical sewer	-	E3.48	km	I
E3.24	Number of pumping stations	-	E3.49	nr	I
E3.25	Capacity of pumping stations (m ³ /d)	-	E3.50	m ³ /day	I
E3.26	Capacity of pumping stations (kw)	-	E3.51	kw	I
E3.27	Number of combined pumping stations	-	E3.52	nr	I
E3.28	Capacity of combined pumping stations (m ³ /d)	-	E3.53	m ³ /day	I
E3.29	Number of stormwater pumping stations	-	E3.54	nr	I
E3.30	Capacity of stormwater pumping stations (m ³ /d)	-	E3.55	m ³ /day	I
E3.31	Number of combined sewer overflows	-	E3.56	nr	I
E3.32	Number of combined sewer overflows (screened)	-	E3.57	nr	I
Sludge Treatment and Disposal Data					
E3.33	Farmland Untreated	-	E3.58	ttds	IC
E3.34	Farmland Conventional	-	E3.59	ttds	IC
E3.35	Farmland Advanced	-	E3.60	ttds	IC
E3.36	Incineration	-	E3.62	ttds	IC
E3.37	Landfill	-	E3.61	ttds	IC
E3.38	Composted	-	E3.63	ttds	IC
E3.39	Land Reclamation	-	E3.64	ttds	IC
E3.40	Other	-	E3.65	ttds	IC

	10 Highland	20 Highland	30 Tay	40 Aberdeen	50 Aberdeen	60 Aberdeen	70 Aberdeen	80 Moray Coast	90 Moray Coast	100 Moray Coast
	Comment Necessary?	Comment Necessary?	Comment Necessary?	Comment Necessary?	Comment Necessary?	Comment Necessary?	Comment Necessary?	Comment Necessary?	Comment Necessary?	Comment Necessary?
E3.0	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
E3.1	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
E3.2	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
E3.3	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
E3.4	N	N	N	N	N	N	N	N	N	N
E3.5	N	N	N	N	N	N	N	N	N	N
E3.6	N	N	N	N	N	N	N	N	N	N
E3.7	N	N	N	N	N	N	N	N	N	N
E3.8	N	N	N	N	N	N	N	N	N	N
E3.9	N	N	Y	Y	N	Y	Y	Y	Y	Y
E3.10	N	N	Y	Y	N	Y	Y	Y	Y	Y
E3.11	Y	Y	N	Y	N	Y	Y	Y	Y	Y
E3.12	Y	Y	N	Y	N	Y	Y	Y	Y	Y
E3.13	Y	Y	N	Y	N	Y	Y	Y	Y	Y
E3.14	N	N	N	Y	N	Y	Y	Y	Y	Y
E3.15	N	N	N	N	N	N	N	N	N	N
E3.16	N	N	N	N	N	N	N	N	N	N
E3.17	N	N	N	N	N	N	N	N	N	N
E3.18	N	N	N	N	N	N	N	N	N	N
E3.19	N	N	N	N	N	N	N	N	N	N
E3.20	N	N	N	N	N	N	N	N	N	N
E3.21	N	N	N	N	N	N	N	N	N	N
E3.22	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
E3.23	N	N	N	N	N	N	N	N	N	N
E3.24	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
E3.25	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
E3.26	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
E3.27	N	N	N	N	N	N	N	N	N	N
E3.28	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
E3.29	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
E3.30	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
E3.31	N	N	N	N	N	N	N	N	N	N
E3.32	N	N	N	N	N	N	N	N	N	N
E3.33	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
E3.34	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
E3.35	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
E3.36	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
E3.37	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
E3.38	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
E3.39	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
E3.40	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y

Prepared by: Date: 15/06/07
 Checked by: Date: 15/06/07
 Authorised by: Douglas Millican Date: 15/06/07

110	120	130	140	150	160	170	180	190	200	210	220
Moray Coast	AVSE	AVSE	AVSE	AVSE	Levenmouth	Dalmuir	Daldowie	MSI	MSI	MSI	
Comment Necessary?	Comment Necessary?	Comment Necessary?	Comment Necessary?	Comment Necessary?	Comment Necessary?	Comment Necessary?	Comment Necessary?	Comment Necessary?	Comment Necessary?	Comment Necessary?	Comment Necessary?

Y Y Y	Y Y Y	Y Y Y	Y Y Y	Y Y Y	Y Y Y	Y Y Y	Y Y Y	Y Y Y	Y Y Y	Y Y Y	#/A #/A #/A
N N N N N	N N N N N	N N N N N	N N N N N	N N N N N	N N N N N	N N N N N	N N N N N	N N N N N	N N N N N	N N N N N	#/A #/A #/A #/A #/A
N Y Y Y N	N N N N N	Y N Y N N	N N N N N	Y N Y N N	Y N Y N N	N N N Y N	Y Y Y Y Y	Y Y N N N	Y Y N N N	N N Y Y N	#/A #/A #/A #/A #/A
N N N N N	N N N N N	N N N N N	N N N N N	N N N N N	N N N N N	N N N N N	Y Y Y Y Y	N N N N N	N N N N N	N N N N N	#/A #/A #/A #/A #/A #/A
Y N Y Y N N	Y N Y Y N N	Y Y Y Y Y Y	Y Y Y Y Y Y	Y N Y Y Y Y	Y N Y N Y N	Y Y Y Y Y Y	Y Y Y Y Y Y	Y Y Y Y Y Y	Y Y Y Y Y Y	Y Y Y Y Y Y	#/A #/A #/A #/A #/A #/A #/A
Y Y Y Y Y	Y Y Y Y Y	Y Y Y Y Y	Y Y Y Y Y	Y Y Y Y Y	Y Y Y Y Y	Y Y Y Y Y	Y Y Y Y Y	Y Y Y Y Y	Y Y Y Y Y	Y Y Y Y Y	#/A #/A #/A #/A #/A #/A

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
E3a.2	Rates paid by the PPP contractor	-	E3a.2	£m	I/C
E3a.3	SEPA charges paid by the PPP contractor	-	E3a.3	£m	I/C
E3a.4	Total direct cost	-	E3a.4	£m	C
E3a.5	Scottish Water general & support expenditure	-	E3a.5	£m	I/C
E3a.6	Scottish Water SEPA charges	-	E3a.6	£m	I/C
E3a.7	Total sewerage cost	-	E3a.7	£m	C

0.031	D6	0.104	D6	1.741	D6	0.264	D6	0.004	D6	0.024	D6	0.019	D6	0.388	D6	0.301	D6	0.223	D6	0.287	D6	0.002
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
0.003	A2	0.003	A2	0.012	A2	0.000	BX	0.000	BX	0.000	BX	0.000	BX	0.005	A2	0.012	A2	0.016	A2	0.000	N	0.000
0.034	D6	0.107	D6	1.753	D6	0.264	D6	0.004	D6	0.024	D6	0.019	D6	0.393	D6	0.313	D6	0.239	D6	0.287	D6	0.002
0.000	BX	0.003	B4	0.035	B4	0.256	B4	0.000	BX	0.001	BX	0.000	BX	0.013	B4	0.004	B4	0.004	B4	0.008	B4	0.000
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
0.034	D6	0.110	D6	1.788	D6	0.520	D6	0.004	D6	0.025	D6	0.019	D6	0.406	D6	0.317	D6	0.243	D6	0.295	D6	0.002

Sewage Treatment Costs					
E3a.8	Estimated direct operating cost	-	E3a.8	£m	I/C
E3a.9	Rates paid by the PPP contractor	-	E3a.9	£m	I/C
E3a.10	SEPA charges paid by the PPP contractor	-	E3a.10	£m	I/C
E3a.11	Total direct cost	-	E3a.11	£m	C
E3a.12	Scottish Water general & support expenditure	-	E3a.12	£m	I/C
E3a.13	Scottish Water SEPA charges	-	E3a.13	£m	I/C
E3a.14	Total sewage treatment cost	-	E3a.14	£m	C
E3a.15	Estimated terminal pumping cost	-	E3a.15	£m	I/C

0.467	D6	1.020	D6	1.360	D6	0.660	D6	0.688	D6	0.446	D6	0.415	D6	0.370	D6	0.280	D6	0.305	D6	5.061	D6	0.775
0.048	B3	0.179	B3	0.229	B3	0.380	B3	0.122	B3	0.054	B3	0.062	B3	0.030	B3	0.032	B3	0.037	B3	0.774	B3	0.095
0.047	A2	0.174	B3	0.124	B3	0.305	B3	0.012	A2	0.027	A2	0.055	B3	0.033	B3	0.033	A2	0.043	A2	0.064	A2	0.007
0.562	D6	1.373	D6	1.713	D6	1.345	D6	0.822	D6	0.527	D6	0.532	D6	0.433	D6	0.345	D6	0.385	D6	5.899	D6	0.877
0.007	B4	0.043	B4	0.057	B4	1.321	B4	0.010	B4	0.017	B4	0.006	B4	0.014	B4	0.004	B4	0.007	B4	0.172	B4	0.010
0.000	N	0.000	N	0.000	N	0.218	A2	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	0.000	N	0.000
0.569	D6	1.416	D6	1.770	D6	2.884	D6	0.832	D6	0.544	D6	0.538	D6	0.447	D6	0.349	D6	0.392	D6	6.071	D6	0.887
0.000	M	0.000	M	0.000	M	0.000	M	0.000	N	0.000	N	0.000	M	0.000	M	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
E3a.17	Rates paid by the PPP contractor	-	E3a.17	£m	I/C
E3a.18	SEPA charges paid by the PPP contractor	-	E3a.18	£m	I/C
E3a.19	Total direct cost	-	E3a.19	£m	C
E3a.20	Scottish Water general & support expenditure	-	E3a.20	£m	I/C
E3a.21	Scottish Water SEPA charges	-	E3a.21	£m	I/C
E3a.22	Total sludge treatment & disposal cost	-	E3a.22	£m	C

0.000	N	0.631	D6	1.956	D6	0.880	D6	0.000	N	0.000	N	0.000	N	1.279	D6	0.000	N	0.000	N	1.331	D6	0.418
0.000	N	0.088	B3	0.260	B3	0.243	B3	0.000	N	0.000	N	0.000	N	0.118	B3	0.000	N	0.000	N	0.191	B3	0.069
0.000	N	0.000	BX	0.000	BX	0.000	BX	0.000	N	0.000	N	0.000	N	0.000	BX	0.000	N	0.000	N	0.004	A2	0.003
0.000	N	0.719	D6	2.216	D6	1.123	D6	0.000	N	0.000	N	0.000	N	1.397	D6	0.000	N	0.000	N	1.526	D6	0.490
-	N	0.206	B4	0.133	B4	1.487	B4	-	N	-	N	-	N	0.206	B4	-	N	-	N	0.221	B4	0.006
-	N	-	N	-	N	-	N	-	N	-	N	-	N	-	N	-	N	-	N	-	N	-
0.000	N	0.925	D6	2.349	D6	2.610	D6	0.000	N	0	N	0.000	N	1.603	D6	0.000	N	0.000	N	1.747	D6	0.496

Total Cost Analysis					
E3a.23	Total direct cost	-	E3a.23	£m	C
E3a.24	Total Scottish Water cost	-	E3a.24	£m	C
E3a.25	Total operating cost	-	E3a.25	£m	C
E3a.26	Annual charge	-	E3a.26	£m	I/C
E3a.27	Public sector capital equivalent value	-	E3a.27	£m	I

0.596	D6	2.199	D6	5.682	D6	2.732	D6	0.826	D6	0.551	D6	0.551	D6	2.223	D6	0.658	D6	0.624	D6	7.712	D6	1.369
0.007	B3	0.252	B3	0.225	B3	3.282	B3	0.010	B3	0.018	B3	0.006	B3	0.233	B3	0.008	B3	0.011	B3	0.401	B3	0.016
0.603	D6	2.451	D6	5.907	D6	6.014	D6	0.836	D6	0.569	D6	0.557	D6	2.456	D6	0.666	D6	0.635	D6	8.113	D6	1.385
2.810	A1	5.531	A1	15.497	A1	11.010	A1	2.191	A1	1.829	A1	2.066	A1	4.192	A1	3.298	A1	3.265	A1	15.157	B3	2.173
16.685	B3	53.866	B3	144.637	B3	79.748	B3	19.367	B3	15.950	B3	19.367	B3	35.411	B3	26.137	B3	22.764	B3	63.395	B3	9.176

Contract Information					
E3a.28	Contract period	-	E3a.28	years	I
E3a.29	Contract end date	-	E3a.29	dd/mm/yy	I

25	A1	25	A1	30	A1	30	A1	30	A1	30	A1	30	A1	30	A1	30	A1	30	A1	30	A1	30
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

Prepared by: Date: 15/06/07
 Checked by: Date: 15/06/07
 Authorised by: Douglas Millican Date: 15/06/07

ANNUAL RETURN INFORMATION REQUIREMENT

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 - <=5 M/d	-	E4.31, E4.48	nr, £m	I/C
E4.30	Size band >5 - <=10 M/d	-	E4.32, E4.49	nr, £m	I/C
E4.31	Size band >10 - <=25 M/d	-	E4.33, E4.50	nr, £m	I/C
E4.32	Size band >25 - <=50 M/d	-	E4.34, E4.51	nr, £m	I/C
E4.33	Size band >50 - <=100 M/d	-	E4.35, E4.52	nr, £m	I/C
E4.34	Size band >100 - <=175 M/d	-	E4.36, E4.53	nr, £m	I/C
E4.35	Size band >175 M/d	-	E4.37, E4.54	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

Prepared by:	Date: 15/06/07
Checked by:	Date: 15/06/07
Authorised by: Geoff Aitkenhead	Date: 15/06/07

Edition 5.1

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 (M/d)								M/d
North West	North East	South East	South West						North West	North East	South East	South West					
42	11	24	42					119	104.421	231.615	332.747	929.971					1698.753
45	0	0	2					47	31.144	0.000	0.000	7.713					38.857
83	16	8	14					121	18.125	168.183	19.255	384.534					590.096
40	26	21	6					93	23.163	15.731	26.046	3.288					68.228
210	53	53	64	0	0	0	0	380	176.852	415.529	378.048	1325.506	0.000	0.000	0.000	0.000	2295.935
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
0.045	0.101	0.145	0.405	0.000	0.000	0.000	0.000	0.696
0.014	0.000	0.000	0.003	0.000	0.000	0.000	0.000	0.017
0.008	0.073	0.008	0.167	0.000	0.000	0.000	0.000	0.257
0.010	0.007	0.011	0.001	0.000	0.000	0.000	0.000	0.030
0.077	0.181	0.165	0.577	0.000	0.000	0.000	0.000	1.000

10	20
Total	CG
1,029	C4
21.0	C4

Resource and treatment - Costs									120
Area 1	Area 2	Area 3	Area 4	Area 5	Area 6	Area 7	Area 8	Total	CG
1.815	2.157	1.364	2.271					7.607	A2
0.494	0.332	0.391	0.794					2.011	A2
9.145	7.311	6.051	12.948					35.455	A2
2.462	1.625	1.642	2.103					7.732	A2
11.607	8.936	7.993	15.051	0.000	0.000	0.000	0.000	43.187	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
66	B2	48.328	C4	0.021	2,100	A2
18	B2	4.173	C4	0.002	336	A2
33	B2	263.976	C4	0.115	4,320	A2
149	B2	1565.137	C4	0.682	30,395	A2
53	B2	414.321	C4	0.180	6,035	A2
319	B2					
		2295.935	C4	1.000	43187.000	A2

Nr of Works		Prop'n of D.I.		Operating Costs	
nr	CG	Prop'n (0-1)	CG	£000	CG
187	B2	0.011937853	C4	5,796	A2
30	B2	0.014095215	C4	2,707	A2
31	B2	0.034437918	C4	3,656	A2
19	B2	0.038108604	C4	3,410	A2
24	B2	0.12189424	C4	8,220	A2
13	B2	0.155094858	C4	7,619	A2
9	B2	0.224746225	C4	5,605	A2
4	B2	0.17679452	C4	3,332	A2
2	B2	0.222890566	C4	2,842	A2
319	B2				
		1	A1		
				43187.001	A2

299
CG

C4
C4
C4
C4
C4
A1

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

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

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

Prepared by: Date: 15/06/07
 Checked by: Date: 15/06/07
 Authorised by: Geoff Aitkenhead Date: 15/06/07

Report Year 2006-07																	
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	

North West		North East		South East		South West												
318.8	B2	1195.2	B2	1037.8	B2	2403.0	B2										4954.7	B2
172.118	B2	606.156	B2	521.398	B2	1183.220	B2										2482.892	B2
57.673	C4	215.105	C4	186.959	C4	432.955	C4										892.692	C4
32.920	B2	105.649	B2	92.256	B2	273.448	B2										504.273	B2
38868.000	A1	16918.000	A1	13205.000	A1	10985.000	A1										79976.000	A1
179	A1	40	A1	55	A1	80	A1										354	A1

0.309	A2	1.441	A2	0.336	A2	3.035	A2										5.121	A2
0.000	A2	0.001	A2	0.001	A2	0.013	A2										0.015	A2
5.153	A2	7.871	A2	6.051	A2	13.219	A2										32.294	A2
2.573	A2	2.772	A2	2.278	A2	3.655	A2										11.278	A2
7.726	A2	10.643	A2	8.329	A2	16.874	A2	0.000		0.000		0.000		0.000			43.572	A2

8347.00	A2	9055.00	A2	6809.00	A2	10857.00	A2										35068.00	A2
1487.00	A2	1846.00	A2	2004.00	A2	2989.00	A2										8326.00	A2
235.00	A2	879.00	A2	650.00	A2	1229.00	A2										2993.00	A2
8.00	A2	135.00	A2	55.00	A2	635.00	A2										833.00	A2
10077.00	A2	11915.00	A2	9518.00	A2	15710.00	A2	0.00		0.00		0.00		0.00			47220.00	A2
1271.00	B2	2517.00	B2	3295.00	B2	7126.00	B2										14209.00	B2
243.00	B2	1014.00	B2	705.00	B2	1864.00	B2	0.00		0.00		0.00		0.00			3826.00	B2
1472	A3	1214	A3	1352	A3	3784	A3										7822	A3
88.647	C4	139.539	C4	160.729	C4	614.905	C4										1003.820	C4
1671	B3	3462	B3	1006	B3	1633	B3										7772	B3

170	B2	124	B2	86	B2	127	B2										507	B2
174554	C4	641194	C4	56305	C4	1701936	C4										2573989	C4
2620.1	C4	10030.2	C4	1143.3	C4	14658.4	C4										28452.0	C4
22.61	C4	41.33	C4	5.35	C4	41.63	C4										34.13	C4

575	B2	433	B2	223	B2	341	B2										1572	B2
347.469	B3	1239.694	B3	507.513	B3	1803.235	B3										3897.911	B3

9	B2	7	B2	1	B2	11	B2										28	B2
1.669	B3	11.021	B3	0.272	B3	27.448	B3										40.410	B3

ANNUAL RETURN INFORMATION REQUIREMENT

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

Line Ref.	Description	Ofwat Ref CMR 02, JR07	WICS Reference AR 06	Units	Field Type
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	M/d	I/C
E6.4	Volume of water delivered to non-households	-	E6.4	M/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	Em	I/C
E6.8	Service charges by SEPA	T21, L7	E1.6	Em	I/C
E6.9	Total direct costs	T21, L10	E1.9	Em	I/C
E6.10	General and support costs	T21, L11	E1.10 + E1.11	Em	I/C
E6.11	Functional expenditure	T21, L12	E1.12	Em	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	M/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	Ml	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	Ml	I/C

	10 Report Year 2006-07 - Area 1	20 Report Year 2006-07 - Area 2	30 Report Year 2006-07 - Area 3	40 Report Year 2006-07 - Area 4	50 Report Year 2006-07 - Area 5	60 Report Year 2006-07 - Area 6	70 Report Year 2006-07 - Area 7	80 Report Year 2006-07 - Area 8	199 Report Year 2006-07 - Total
Comment Necessary?									
E6.0	N	N	N	N	#N/A	#N/A	#N/A	#N/A	N
E6.1	N	N	N	N	#N/A	#N/A	#N/A	#N/A	N
E6.2	N	N	N	N	#N/A	#N/A	#N/A	#N/A	N
E6.3	N	N	N	N	#N/A	#N/A	#N/A	#N/A	N
E6.4	N	N	N	N	#N/A	#N/A	#N/A	#N/A	N
E6.5	N	N	N	N	#N/A	#N/A	#N/A	#N/A	N
E6.6	N	N	N	N	#N/A	#N/A	#N/A	#N/A	N
E6.7	N	N	N	N	#N/A	#N/A	#N/A	#N/A	N
E6.8	N	N	N	N	#N/A	#N/A	#N/A	#N/A	N
E6.9	N	N	N	N	#N/A	#N/A	#N/A	#N/A	N
E6.10	N	N	N	N	#N/A	#N/A	#N/A	#N/A	N
E6.11	N	N	N	N	#N/A	#N/A	#N/A	#N/A	N
E6.12	N	N	N	N	#N/A	#N/A	#N/A	#N/A	N
E6.13	N	N	N	N	#N/A	#N/A	#N/A	#N/A	N
E6.14	N	N	N	N	#N/A	#N/A	#N/A	#N/A	N
E6.15	N	N	N	N	#N/A	#N/A	#N/A	#N/A	N
E6.16	N	N	N	N	#N/A	#N/A	#N/A	#N/A	N
E6.17	N	N	N	N	#N/A	#N/A	#N/A	#N/A	N
E6.18	N	N	N	N	#N/A	#N/A	#N/A	#N/A	N
E6.19	N	N	N	N	#N/A	#N/A	#N/A	#N/A	N
E6.20	N	N	N	N	#N/A	#N/A	#N/A	#N/A	N
E6.21	N	N	N	N	#N/A	#N/A	#N/A	#N/A	N
E6.22	N	N	N	N	#N/A	#N/A	#N/A	#N/A	N
E6.23	N	N	N	N	#N/A	#N/A	#N/A	#N/A	N
E6.24	N	N	N	N	#N/A	#N/A	#N/A	#N/A	N
E6.25	N	N	N	N	#N/A	#N/A	#N/A	#N/A	N
E6.26	N	N	N	N	#N/A	#N/A	#N/A	#N/A	N
E6.27	N	N	N	N	#N/A	#N/A	#N/A	#N/A	N
E6.28	N	N	N	N	#N/A	#N/A	#N/A	#N/A	N
E6.29	N	N	N	N	#N/A	#N/A	#N/A	#N/A	N

Prepared by: Date: 15/06/07
 Checked by: Date: 15/06/07
 Authorised by: Geoff Aitkenhead Date: 15/06/07

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	10	20	30	40	50	60	70	80	199
						Area 1 CG	Area 2 CG	Area 3 CG	Area 4 CG	Area 5 CG	Area 6 CG	Area 7 CG	Area 8 CG	Total CG
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	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	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									
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	m3/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	m3/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

Prepared by:	Date: 15/06/07
Checked by:	Date: 15/06/07
Authorised by: Geoff Aitkenhead	Date: 15/06/07

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	10	20	30	40	50	60	70	80	90	100	110	199						
						Treatment Category														Total			
						Septic Tanks		Primary		Sec Activated Sludge		Sec biological		Tertiary A1		Tertiary A2		Tertiary B1		Tertiary B2		Sea Preliminary	
CG	CG	CG	CG	CG	CG	CG	CG	CG	CG	CG	CG	CG	CG	CG	CG	CG	CG	CG	CG	CG	CG	CG	
Numbers																							
E8.1	Size Band 0	-	E8.1	nr	I/C	997	11	14	80	11	1	12	2	5	0	39	1172						
E8.2	Size Band 1	T17c, L1	E8.2	nr	I/C	146	8	21	42	3	2	7	2	0	0	34	265						
E8.3	Size Band 2	T17c, L2	E8.3	nr	I/C	54	8	14	42	3	1	5	4	2	0	2	135						
E8.4	Size Band 3	T17c, L3	E8.4	nr	I/C	30	15	38	64	9	1	14	4	5	3	17	200						
E8.5	Size Band 4	T17c, L4	E8.5	nr	I/C	4	9	46	38	5	1	8	2	6	9	2	130						
E8.6	Size Band 5	T17c, L5	E8.6	nr	I/C	0	2	24	5	3	2	1	0	2	0	0	39						
E8.7	Size Band 6 (Large Works)	T17c, L6	E8.7	nr	I/C	0	0	18	1	1	0	1	0	0	0	1	22						
E8.8	Total Sewage Treatment Works	T17c, L7	E8.8	nr	C	1231	53	175	272	35	8	48	14	20	12	95	1963						
E8.9	Small Sewage treatment works with ammonia consent 5 - 10 mg/l	T17c, L8	E8.9	nr	I/C	0	0	15	30	3	0	6	1	0	0	0	55						
E8.10	Small Sewage treatment works with ammonia consent <= 5 mg/l	T17c, L9	E8.10	nr	I/C	1	0	12	16	8	3	4	2	1	0	0	47						

Loading (average daily load)																				Total excluding Septic Tanks
Line Ref.	Description	Ofwat Ref	WICS Reference	Units	Field Type	10	20	30	40	50	60	70	80	90	100	110	199			
E8.11	Size Band 0	-	E8.11	kg BOD/day	I/C	1757	27	57	208	28	2	29	4	7	0	96	457			
E8.12	Size Band 1	T17d, L1	E8.12	kg BOD/day	I/C	1597	74	235	471	30	24	81	31	0	0	353	1300			
E8.13	Size Band 2	T17d, L2	E8.13	kg BOD/day	I/C	1219	201	326	940	57	23	106	33	0	0	46	1823			
E8.14	Size Band 3	T17d, L3	E8.14	kg BOD/day	I/C	1838	950	2615	4569	679	111	744	268	327	171	1048	11480			
E8.15	Size Band 4	T17d, L4	E8.15	kg BOD/day	I/C	815	2657	13619	10355	1311	303	2314	657	1765	2202	828	36011			
E8.16	Size Band 5	T17d, L5	E8.16	kg BOD/day	I/C	0	1723	21585	3750	2650	1361	1035	0	1889	0	0	33991			
E8.17	Size Band 6 (large works)	T17d, L6	E8.17	kg BOD/day	I/C	0	0	121433	3650	17877	0	2225	0	0	0	2955	148141			
E8.18	Total Load Received	T17d, L7	E8.18	kg BOD/day	C	7227	5632	159869	23943	22631	1824	6534	1051	4021	2373	5326	233204			
E8.19	Small Sewage treatment works with ammonia consent 5 - 10 mg/l	T17d, L8	E8.19	kg BOD/day	I/C	0	0	4487	1671	854	0	822	1	0	0	0	7834			
E8.20	Small Sewage treatment works with ammonia consent <= 5 mg/l	T17d, L9	E8.20	kg BOD/day	I/C	4	0	3106	3678	788	1053	198	266	1015	0	0	10104			

Compliance																			
Line Ref.	Description	Ofwat Ref	WICS Reference	Units	Field Type	10	20	30	40	50	60	70	80	90	100	110	199		
E8.21	Size Band 0	-	E8.21	%	I	100.0	100.0	98.8	90.9	100.0	100.0	100.0	100.0	100.0	0.0	100.0	100.0		
E8.22	Size Band 1	-	E8.22	%	I/C	100.0	71.4	95.2	100.0	100.0	100.0	50.0	0.0	0.0	0.0	100.0	100.0		
E8.23	Size Band 2	-	E8.23	%	I/C	100.0	100.0	81.0	66.7	100.0	100.0	25.0	0.0	0.0	0.0	100.0	100.0		
E8.24	Size Band 3	-	E8.24	%	I/C	100.0	84.2	87.5	88.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		
E8.25	Size Band 4	-	E8.25	%	I/C	88.9	80.4	92.1	80.0	100.0	100.0	100.0	50.0	100.0	100.0	100.0	100.0		
E8.26	Size Band 5	-	E8.26	%	I/C	100.0	91.7	80.0	100.0	100.0	100.0	0.0	100.0	0.0	0.0	0.0	0.0		
E8.27	Size Band 6 (large works)	-	E8.27	%	I/C	0.0	77.8	100.0	100.0	0.0	100.0	0.0	100.0	0.0	0.0	100.0	100.0		
E8.28	Average compliance by works - all sizes	-	E8.28	%	I/C	98.4	86.5	90.6	89.5	100.0	100.0	82.1	92.9	100.0	100.0	100.0	100.0		
E8.29	Small Sewage treatment works with ammonia consent 5 - 10 mg/l	-	E8.29	%	I/C	0	93	93	67	0	100	100	0	0	0	0	0		
E8.30	Small Sewage treatment works with ammonia consent <= 5 mg/l	-	E8.30	%	I/C	0.0	66.7	75.0	100.0	100.0	100.0	100.0	100.0	100.0	0.0	0.0	0.0		

Costs																				Total
Line Ref.	Description	Ofwat Ref	WICS Reference	Units	Field Type	10	20	30	40	50	60	70	80	90	100	110	199			
E8.31	Direct costs for works in size band 0	-	E8.31	£000	I/C	763	92	235	362	88	10	63	8	2	-	10	1632.408			
E8.32	Direct costs for works in size band 1	T17f, L1	E8.32	£000	I/C	623	48	251	437	22	40	87	16	-	-	37	1560.997			
E8.33	Direct costs for works in size band 2	T17f, L2	E8.33	£000	I/C	415	64	168	634	35	41	89	59	7	-	3	1516.128			
E8.34	Direct costs for works in size band 3	T17f, L3	E8.34	£000	I/C	387	294	1,090	1,452	280	60	250	95	53	24	62	4046.748			
E8.35	Direct costs for works in size band 4	T17f, L4	E8.35	£000	I/C	32	311	2,774	1,778	426	76	530	248	242	138	69	6623.647			
E8.36	Direct costs for works in size band 5	T17f, L5	E8.36	£000	I/C	-	259	3,659	496	549	166	94	-	99	-	-	5321.502			
E8.37	Direct costs for works in size band 6 (large works)	T17f, L6	E8.37	£000	I/C	-	-	6,430	537	814	-	104	-	-	-	3	7888.573			
E8.38	Direct costs for all sewage treatment works	T17f, L7	E8.38	£000	C	2219.184	1068.055	14608.605	5695.965	2213.770	391.798	1216.104	426.811	403.627	161.994	184.090	28590.003			
E8.39	General and support expenditure	T17f, L12	E8.39	£000	I/C	330	213	2,929	1,655	386	106	381	130	63	19	42	6254.998			
E8.40	Functional expenditure	T17f, L13	E8.40	£000	C	2549.288	1281.113	17537.418	7350.731	2599.653	498.278	1597.451	556.433	467.122	181.371	226.143	34845.001			
E8.41	Power costs	T17f, L10	E8.41	£000	I/C	159	217	5,365	1,080	857	118	288	142	82	45	20	8373.998			
E8.42	Service charges SEPA	T17f, L11	E8.42	£000	I/C	1,342	229	2,205	1,070	257	51	216	50	133	59	75	5688.001			

Prepared by: Date: 15/06/07
 Checked by: Date: 15/06/07
 Authorised by: Geoff Aitkenhead Date: 15/06/07

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
						1	2	3	4	5	6	7	8
Works Size													
E9.0	Name	T17b, L1	E9.0	Name	I	Allers	Alloa	Ardoch	Bo'ness	Carbarns	Dalderse	Daldowie	Dalmarnock
E9.1	Population equivalent of total load received	T17b, L2	E9.5	000	I	53 B3	41 B3	67 B3	29 B3	49 B3	89 B3	298 B3	372 B3
Compliance													
E9.2	Suspended solids consent	T17b, L3	E9.11	mg/l	I	100 A1	100 A1	40 A1	0 N	100 A1	0 N	100 A1	100 A1
E9.3	BOD consent	T17b, L4	E9.12	mg/l	I	20 A1	75 A1	25 A1	25 A1	15 A1	20 A1	15 A1	25 A1
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
E9.5	Ammonia consent	T17b, L6	E9.14	mg/l	I	5 A1	30 A1	0 N	0 N	10 A1	0 N	5 A1	11 A1
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
E9.7	Compliance with effluent consent standard	-	E9.16	%	I	100 A1	100 A1	100 A1	0 N	94 A1	100 A1	93 A1	100 A1
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
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
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
E9.11	Tertiary A1	T17b, L8	E9.22	1/0	I	0 N	0 N	0 N	0 N	0 N	0 N	1 N	0 N
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
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
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
Works Cost													
E9.15	Power costs	T17b, L10	E9.34	£'000	I	80 A2	107 A2	168 A2	64 A2	122 A2	114 A2	443 A2	325 A2
E9.16	Service charges SEPA	T17b, L11	E9.37	£'000	I	38 A2	0 A2	30 A2	17 A2	40 A2	157 A2	89 A2	88 A2
E9.17	Total direct costs	T17b, L9	E9.39	£'000	I	176 A2	130 A2	330 A2	159 A2	238 A2	276 A2	814 A2	735 A2
E9.18	General and support expenditure	T17b, L12	E9.40	£'000	I	29 A2	32 A2	56 A2	34 A2	42 A2	47 A2	55 A2	117 A2
E9.19	Functional Expenditure	T17b, L13	E9.41	£'000	C	205 A2	162 A2	385 A2	194 A2	280 A2	323 A2	869 A2	852 A2
E9.20	Estimated terminal pumping station costs	T17b, L14	E9.42	£'000	I	0 N	0 N	102 A3	0 N	0 N	0 N	0 N	98 A3
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

Prepared by: Date: 15/06/07
 Checked by: Date: 15/06/07
 Authorised by: Geoff Aitkenhead Date: 15/06/07

90	100	110	120	130	140	150	160	170	180	190	200	210
9	10	11	12	13	14	15	16	17	18	19	20	21
CG	CG	CG	CG	CG	CG	CG	CG	CG	CG	CG	CG	CG
Dunfermline	Dunnswood	Erskine	Galashiels	Hamilton	Kinneil Kerse	Kirkcaldy	Laighpark (Paisley)	Perth	Philipshill	Sheildhall	Stirling	Troqueer
84 B3	34 B3	76 B3	37 B3	65 B3	46 B3	61 B3	212 B3	87 B3	66 B3	528 B3	72 B3	54 B3
100 A1 75 A1 125 A1 0 N 0 N 97 A1	100 A1 10 A1 125 A1 5 A1 0 N 93 A1	100 A1 75 A1 125 A1 30 A1 0 N 99 A1	100 A1 25 A1 125 A1 15 A1 0 N 99 A1	100 A1 20 A1 125 A1 5 A1 0 N 74 A1	100 A1 75 A1 125 A1 15 A1 0 N 100 A1	0 N 25 A1 125 A1 0 N 0 N 100 A1	30 A1 15 A1 125 A1 20 A1 0 N 99 A1	100 A1 30 A1 125 A1 30 A1 0 N 100 A1	100 A1 10 A1 125 A1 2 A1 0 N 97 A1	100 A1 20 A1 125 A1 20 A1 0 N 99 A1	100 A1 75 A1 125 A1 15 A1 0 N 94 A1	100 A1 20 A1 125 A1 0 N 0 N 100 A1
1 A1 1 A1 0 N 0 N 0 N 0 N 0 N	1 A1 1 A1 0 N 0 N 0 N 0 N 0 N	1 A1 1 A1 0 N 0 N 0 N 0 N 0 N	1 A1 0 N 1 A1 0 N 0 N 1 N 0 N	1 A1 1 A1 0 N 0 N 0 N 0 N 0 N	0 N 1 A1 0 N 0 N 0 N 0 N 0 N	1 A1 0 N 1 A1 0 N 0 N 0 N 0 N	1 A1 1 A1 0 N 0 N 0 N 0 N 0 N	1 A1 1 A1 0 N 0 N 0 N 0 N 0 N	1 A1 1 A1 0 N 0 N 0 N 0 N 0 N	1 A1 1 A1 0 N 0 N 0 N 0 N 0 N	1 A1 1 A1 0 N 0 N 0 N 0 N 0 N	1 A1 1 A1 0 N 0 N 0 N 0 N 0 N
73 A2 21 A2 272 A2 36 A2 308 A2	89 A2 39 A2 238 A2 46 A2 283 A2	129 A2 17 A2 279 A2 40 A2 319 A2	47 A2 9 A2 104 A2 20 A2 124 A2	112 A2 30 A2 198 A2 41 A2 239 A2	120 A2 150 A2 348 A2 38 A2 386 A2	207 A2 40 A2 537 A2 71 A2 608 A2	273 A2 307 A2 787 A2 31 A2 818 A2	40 A2 9 A2 214 A2 59 A2 273 A2	125 A2 18 A2 160 A2 10 A2 170 A2	565 A2 230 A2 1490 A2 191 A2 1681 A2	218 A2 34 A2 168 A2 68 A2 236 A2	60 A2 12 A2 233 A2 15 A2 248 A2
22 N 0 N	0 N 0 N	0 N 0 N	0 N 0 N	0 N 0 N	26 N 0 N	52 N 0 N	82 N 0 N	12 A3 0 N	0 N 0 N	170 A3 0 N	66 N 0 N	18 N 0 N

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	20	30	31	32	50	199									
						Disposal category								Total	CG								
						Farmland Untreated	Farmland Conventional	Farmland Advanced	Incineration	Landfill	Composted	Land Reclamation	Other										
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	AX	387.3	C3	555.2	C3	1271.7	C3	172.8	C3	62.3	C3	219.7	C3	15.8	C3	2684.7	C3
E10.2	Amount of sewage sludge	T17g, L2	E10.2	ttds	I	0.0	AX	6.7	B3	9.6	B3	0.0	AX	2.1	B3	0.3	B3	3.2	B3	0.0	AX	21.8	B3
Sludge Treatment and Disposal costs																							
E10.3	Sludge Treatment direct costs	T17g, L3	-	£000	I	0.000	CX	1006.944	B3	1743.717	B3	0.000	CX	359.115	B3	72.151	B3	819.609	B3	0.000	CX	4001.535	B3
E10.4	Sludge disposal direct costs	T17g, L4	-	£000	I	0.000	CX	341.301	B3	1989.702	B3	0.000	CX	512.508	B3	53.541	B3	511.412	B3	0.000	CX	3408.465	B3
E10.5	Sludge treatment & disposal: Power costs	T17g, L6	E10.4	£000	I	0.000	CX	185.481	B3	559.980	B3	0.000	CX	54.204	B3	21.607	B3	119.728	B3	0.000	CX	941.000	B3
E10.6	Sludge treatment & disposal: Service charges SEPA	T17g, L7	E10.7	£000	I	0.000	CX	9.067	B3	27.374	B3	0.000	CX	2.650	B3	1.056	B3	5.853	B3	0.000	CX	46.000	B3
E10.7	Sludge treatment & disposal: Total direct costs	T17g, L5	E10.9	£000	C	0.000	CX	1348.244	B3	3733.419	B3	0.000	CX	871.623	B3	125.692	B3	1331.022	B3	0.000	CX	7410.000	B3
E10.8	Sludge treatment and disposal: General and support e	T17g, L8	E10.10	£000	I	0.000	CX	320.777	B3	888.261	B3	0.000	CX	207.378	B3	29.905	B3	316.679	B3	0.000	CX	1763.000	B3
E10.9	Sludge Treatment and disposal: Functional Expenditu	T17g, L9	E10.11	£000	C	0.000	CX	1669.021	B3	4621.680	B3	0.000	CX	1079.001	B3	155.597	B3	1647.700	B3	0.000	CX	9173.000	B3

Prepared by: Date: 15/06/07
 Checked by: Date: 15/06/07
 Authorised by: Geoff Aitkenhead Date: 15/06/07

Edition 5.1

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		Wastewater Service	
							CG		CG
Employee numbers									
E11.1	Direct operations	-	E11.1	nr	I	555	B2	428	B2
E11.2	Indirect operations (General and support)	-	E11.2	nr	I	338	B2	282	B2
E11.3	Other (incl hired and contracted)	-	E11.3	nr	I	449	B2	302	B2
E11.4	Total employee numbers	-	E11.4	nr	C	1343	B2	1012	B2
Management and General Assets									
E11.5	Number of Offices	-	E11.5	nr	I	11	B3	11	B3
E11.6	Area of Offices	-	E11.6	m ²	I	16340	B3	12326	B3
E11.7	Number of Laboratories	-	E11.7	nr	I	3	B3	2	B3
E11.8	Area of Laboratories	-	E11.8	m ²	I	2400	B3	1810	B3
E11.9	Number of Depots	-	E11.9	nr	I	68	B4	68	B4
E11.10	Area of Depots	-	E11.10	m ²	I	58920	B4	44448	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	716	C3	716	C3
E11.15	Vehicles & Plant	-	E11.15	£m	I	16.416	B3	12.384	B3
E11.16	% Coverage of Telemetry Systems	-	E11.16	%	I	40	A3	24	A3
E11.17	Number of Telemetry Outstations	-	E11.17	nr	I	1345	A3	2157	A3
E11.18	Information Systems: Personal Computers	-	E11.18	nr	I	3577	A2	3545	A2
E11.19	Information Systems: Workstations	-	E11.19	nr	I	442	A2	442	A2
E11.20	Information Systems: Mainframes	-	E11.20	nr	I	3	A2	3	A2

Prepared by: Date: 15/06/07
 Checked by: Date: 15/06/07
 Authorised by: Douglas Millican Date: 15/06/07

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
-----------	-------------	--------------------	-------------------------	-------	------------

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

N
N
N
N

Y

N
N
N
N

Y

Y

Y

N
N

N
N

Y

Y

N
N
N
N

N
N
N
N

Prepared by: Date: 15/06/07
 Checked by: Date: 15/06/07
 Authorised by: Douglas Millican Date: 15/06/07

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