

SECTION E : OPERATING COSTS AND EFFICIENCY
Table E1a: Activity Based Costing - Water Service

						Report Year - 1 2002-03															
						10	20	30	40	50	60	199	210	220	230	240	250	260	299	999	
Line Ref.	Description	Otwat Ref JR 00	Units	Field Type	Water Resources & Treatment						Water Distribution						Water Service				
					Area 1	Area 2	Area 3	Area 4	Area 5	Area 6	sub total	Area 1	Area 2	Area 3	Area 4	Area 5	Area 6	sub total	Total	CG	
Service Analysis - Water : Direct Costs																					
E1.0	Name	-																			
E1.1	Employment costs	T21_L1	£m	I/C																0	
E1.2	Power	T21_L2	£m	I/C																0	
E1.3	Hired and contracted services	T21_L4	£m	I/C																0	
E1.4	Estimated running cost of PPP schemes	-	£m	I/C																0	
E1.5	Materials and consumables	T21_L6	£m	I/C																0	
E1.6	Service charges SEPA	T21_L7	£m	I/C																0	
E1.7	Bulk supply imports	T21_L8	£m	I/C																0	
E1.8	Other direct costs	T21_L9	£m	I/C																0	
E1.9	Total direct costs	T21_L10	£m	C																0	
E1.10	General and support employment costs	-	£m	I/C																0	
E1.11	General and support other costs	-	£m	I/C																0	
E1.12	Functional expenditure	T21_L12	£m	C																0	
Operating Expenditure																					
E1.13	Customer services	T21_L13	£m	I																	
E1.14	Scientific services	T21_L14	£m	I																	
E1.15	Other business activities	T21_L15	£m	I																	
E1.16	Total business activities	T21_L16	£m	C																0	
E1.17	Local authority rates	T21_L17	£m	I																	
E1.18	Doubtful debts	T21_L18	£m	I																	
E1.19	Exceptional items - start-up costs	-	£m	I																	
E1.20	Exceptional items - reorganisation costs	-	£m	I																	
E1.21	Exceptional items - severance costs	-	£m	I																	
E1.22	Exceptional items - other costs (specify)	-	£m	I																	
E1.23	Total Exceptional items	T21_L19	£m	C																0	
E1.24	Total opex less third party services	T21_L20	£m	C																0	
E1.25	Third party services - opex	T21_L21	£m	I																	
E1.26	Total operating expenditure	T21_L16	£m	C																0	
Reactive and Planned Maintenance (included in Opex)																					
E1.27	Reactive and planned maintenance infrastructure	T21_L23	£m	I/C																0	
E1.28	Reactive and planned maintenance non-infrastructure	T21_L24	£m	I/C																0	
Capital Maintenance																					
E1.29	Infrastructure depreciation charge	T21_L25	£m	I/C																0	
E1.30	Non-infrastructure depreciation charge	T21_L26	£m	I/C																0	
E1.31	Amortisation of deferred credits	T21_L28	£m	I																	
E1.32	Amortisation of intangible assets	T21_L29	£m	I																	
E1.33	Business activities depreciation charge	T21_L30	£m	I																	
E1.34	Capital maintenance less third party services	T21_L31	£m	C																0	
E1.35	Third party services - depreciation	T21_L32	£m	I																	
E1.36	Total capital maintenance	T21_L33	£m	C																0	
PPP Costs																					
E1.37	Total annual charge for PPP schemes	T21_L25	£m	I																0	
E1.38	Annual charge for PPP schemes less estimated runni	T21_L26	£m	C																0	
E1.39	Total operating costs	T21_L34	£m	C																0	

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ANNUAL RETURN INFORMATION REQUIREMENTS

SECTION E : OPERATING COSTS AND EFFICIENCY
Table E1b: Activity Based Costing - Water Service

					Report Year 2003-04																
					10	20	30	40	50	60	199	210	220	230	240	250	260	299	999		
Line Ref.	Description	Ofwat Ref JR 00	Units	Field Type	Water Resources & Treatment							Water Distribution						Water Service			
					Area 1	Area 2	Area 3	Area 4	Area 5	Area 6	sub total	Area 1	Area 2	Area 3	Area 4	Area 5	Area 6	sub total	Total	CG	
Service Analysis - Water : Direct Costs																					
E1.0	Name			I	NW NE SE SW							NW NE SE SW									
E1.1	Employment costs	T21, L1	£m	I/C	3.938	2.621	2.267	5.566			14.392	4.688	5.217	7.054	7.667			24.626	39.018	A2	
E1.2	Power	T21, L2	£m	I/C	1.133	1.064	0.889	2.654			5.74	0.385	1.16	0.223	0.982			2.75	8.49	A2	
E1.3	Hired and contracted services	T21, L4	£m	I/C	0.713	0.412	0.631	1.353			3.109	0.599	1.124	1.67	1.022			4.415	7.524	A2	
E1.4	Estimated running cost of PPP schemes	-	£m	I/C	0	0	0	0			0	0	0	0	0			0	0	N	
E1.5	Materials and consumables	T21, L6	£m	I/C	1.449	1.373	1.268	3.481			7.571	0.543	0.451	0.572	0.448			2.014	9.585	A2	
E1.6	Service charges SEPA	T21, L7	£m	I/C	0.092	0.023	0.059	0.094			0.268	0.01	0.003	0	0.002			0.015	0.283	A2	
E1.7	Bulk supply imports	T21, L8	£m	I/C	0	0	0	0			0	0	0	0	0			0	0	N	
E1.8	Other direct costs	T21, L9	£m	I/C	0.08	0.083	0.051	0.057			0.271	0.182	0.525	0.451	0.799			1.957	2.228	A2	
E1.9	Total direct costs	T21, L10	£m	C	7.405	5.576	5.165	13.205	0	0	31.351	6.407	8.48	9.97	10.92	0	0	35.777	67.128	A2	
E1.10	General and support employment costs	-	£m	I/C	0.968	0.61	0.511	1.035			3.124	0.862	1.924	1.595	3.023			7.404	10.528	A2	
E1.11	General and support other costs	-	£m	I/C	1.577	2.386	1.38	2.875			8.218	2.091	3.882	3.232	6.19			15.395	23.613	A2	
E1.12	Functional expenditure	T21, L12	£m	C	9.95	8.572	7.056	17.115	0	0	42.693	9.36	14.286	14.797	20.133	0	0	58.576	101.269	A2	
Operating Expenditure																					
E1.13	Customer services	T21, L13	£m	I																14.3	A2
E1.14	Scientific services	T21, L14	£m	I																10.269	A2
E1.15	Other business activities	T21, L15	£m	I																1.783	A2
E1.16	Total business activities	T21, L16	£m	C																26.352	A2
E1.17	Local authority rates	T21, L17	£m	I																16.1	A2
E1.18	Doubtful debts	T21, L18	£m	I																17.793	A2
E1.19	Exceptional items - start-up costs	-	£m	I																0	N
E1.20	Exceptional items - reorganisation costs	-	£m	I																11.221	A2
E1.21	Exceptional items - severance costs	-	£m	I																20.437	A2
E1.22	Exceptional items - other costs (specify)	-	£m	I																0	N
E1.23	Total Exceptional items	T21, L19	£m	C																31.658	A2
E1.24	Total opex less third party services	T21, L20	£m	C																193.172	A2
E1.25	Third party services - opex	T21, L21	£m	I																16.566	A2
E1.26	Total operating expenditure	T21, L16	£m	C																209.738	A2
Reactive and Planned Maintenance (included in Opex)																					
E1.27	Reactive and planned maintenance infrastructure	T21, L23	£m	I/C	0.015	0.001	0.012	0.208			0.236	3.819	5.61	6.432	7.49			23.351	23.587	D3	
E1.28	Reactive and planned maintenance non-infrastructure	T21, L24	£m	I/C	2.441	2.023	1.648	3.984			10.096	0.575	0.547	0.277	0.593			1.992	12.088	D3	
Capital Maintenance																					
E1.29	Infrastructure depreciation charge	T21, L25	£m	I/C														4.939	98.073	103.012	A2
E1.30	Non-infrastructure depreciation charge	T21, L26	£m	I/C														34.135	28.081	62.216	A2
E1.31	Amortisation of deferred credits	T21, L28	£m	I																-0.683	A2
E1.32	Amortisation of intangible assets	T21, L29	£m	I																0	N
E1.33	Business activities depreciation charge	T21, L30	£m	I																2.597	A2
E1.34	Capital maintenance less third party services	T21, L31	£m	C																167.142	A2
E1.35	Third party services - depreciation	T21, L32	£m	I																0.854	A2
E1.36	Total capital maintenance	T21, L33	£m	C																167.996	A2
PPP Costs																					
E1.37	Total annual charge for PPP schemes	T21, L25	£m	I																0	N
E1.38	Annual charge for PPP schemes less estimated runni	T21, L26	£m	C																0	N
E1.39	Total operating costs	T21, L34	£m	C																377.734	A2

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SECTION E : OPERATING COSTS AND EFFICIENCY
Table E1c: Activity Based Costing - Water Service

Line Ref.	Description	Ofwat Ref JR00	Units	Field Type	Report Year + 1 Budget 2004-05				Report Year + 1 Forecast 2004-05				Report Year + 2 Budget 2005-06									
					10		20		50		100		110		150		200		210		250	
					Water Resources & Treatment	Water Distribution	Water Service		Water Resources & Treatment	Water Distribution	Water Service		Water Resources & Treatment	Water Distribution	Water Service		Water Resources & Treatment	Water Distribution	Water Service			
sub total		sub total		Total	CG	sub total		sub total		Total	CG	sub total		sub total		Total	CG					
Service Analysis - Water : Direct Costs																						
E1.0	Not in use																					
E1.1	Employment costs	T21, L1	£m	I/C	11.659	19.949	31.608	B3	11.659	19.949	31.608	B3	12.074	20.66	32.734	B3						
E1.2	Power	T21, L2	£m	I/C	4.649	2.228	6.877	B3	4.649	2.228	6.877	B3	4.815	2.307	7.122	B3						
E1.3	Hired and contracted services	T21, L4	£m	I/C	2.518	3.577	6.095	B3	2.518	3.577	6.095	B3	2.608	3.704	6.312	B3						
E1.4	Estimated running costs of PPP schemes	-	£m	I/C	0	0	0	N	0	0	0	N	0	0	0	N						
E1.5	Materials and consumables	T21, L6	£m	I/C	6.133	1.632	7.765	B3	6.133	1.632	7.765	B3	6.352	1.69	8.042	B3						
E1.6	Service charges SEPA	T21, L7	£m	I/C	0.217	0.012	0.229	B3	0.217	0.012	0.229	B3	0.225	0.012	0.237	B3						
E1.7	Bulk supply imports	T21, L8	£m	I/C	0	0	0	N	0	0	0	N	0	0	0	N						
E1.8	Other direct costs	T21, L9	£m	I/C	0.22	1.585	1.805	B3	0.22	1.585	1.805	B3	0.227	1.642	1.869	B3						
E1.9	Total direct costs	T21, L10	£m	C	25.396	28.983	54.379	B3	25.396	28.983	54.379	B3	26.301	30.015	56.316	B3						
E1.10	General and support employment costs	-	£m	I/C	2.531	5.997	8.528	B3	2.531	5.997	8.528	B3	2.621	6.211	8.832	B3						
E1.11	General and support other costs	-	£m	I/C	6.658	12.471	19.129	B3	6.658	12.471	19.129	B3	6.895	12.916	19.811	B3						
E1.12	Functional expenditure	T21, L12	£m	C	34.585	47.451	82.036	B3	34.585	47.451	82.036	B3	35.817	49.142	84.959	B3						
Operating Expenditure																						
E1.13	Customer services	T21, L13	£m	I			11.584	B3			11.584	B3			11.996	B3						
E1.14	Scientific services	T21, L14	£m	I			8.319	B3			8.319	B3			8.615	B3						
E1.15	Other business activities	T21, L15	£m	I			1.444	B3			1.444	B3			1.496	B3						
E1.16	Total business activities	T21, L16	£m	C			21.347	B3			21.347	B3			22.107	B3						
E1.17	Local authority rates	T21, L17	£m	I			17.623	B3			17.623	B3			18.755	B3						
E1.18	Doubtful debts	T21, L18	£m	I			16.612	B3			16.612	B3			14.905	B3						
E1.19	Exceptional items - start-up costs	-	£m	I			0	N			0	N			0	N						
E1.20	Exceptional items - reorganisation costs	-	£m	I			15.397	B3			15.397	B3			2.996	B3						
E1.21	Exceptional items - severance costs	-	£m	I			13.653	B3			13.653	B3			0	N						
E1.22	Exceptional items - other costs (specify)	-	£m	I			0	N			0	N			0	N						
E1.23	Total Exceptional items	T21, L19	£m	C			29.05	B3			29.05	B3			2.996	B3						
E1.24	Total opex less third party services	T21, L20	£m	C			166.668	B3			166.668	B3			143.722	B3						
E1.25	Third party services - opex	T21, L21	£m	I			36.256	B3			36.256	B3			46.412	B3						
E1.26	Total operating expenditure	T21, L16	£m	C			202.924	B3			202.924	B3			190.134	B3						
Reactive and Planned Maintenance (included in Opex)																						
E1.27	Reactive and planned maintenance infrastructure	T21, L23	£m	I	0.191	18.916	19.107	D4	0.191	18.916	19.107	D4	0.198	19.59	19.788	D4						
E1.28	Reactive and planned maintenance non-infrastructure	T21, L24	£m	I	8.179	1.614	9.793	D4	8.179	1.614	9.793	D4	8.47	1.672	10.142	D4						
Capital Maintenance																						
E1.29	Infrastructure depreciation charge	T21, L25	£m	I/C	5.941	117.962	123.903	B3	5.941	117.962	123.903	B3	6.044	120.02	126.064	B3						
E1.30	Non-infrastructure depreciation charge	T21, L26	£m	I/C	33.184	26.897	60.081	B3	33.184	26.897	60.081	B3	36.25	29.382	65.632	B3						
E1.31	Amortisation of deferred credits	T21, L28	£m	I			0	N			0	N			0	N						
E1.32	Amortisation of intangible assets	T21, L29	£m	I			0	N			0	N			0	N						
E1.33	Business activities depreciation charge	T21, L30	£m	I			2.262	B3			2.262	B3			2.471	B3						
E1.34	Capital maintenance less third party services	T21, L31	£m	C			186.246	B3			186.246	B3			194.167	B3						
E1.35	Third party services - depreciation	T21, L32	£m	I			0.867	B3			0.867	B3			0.932	B3						
E1.36	Total capital maintenance	T21, L33	£m	C			187.113	B3			187.113	B3			195.099	B3						
PPP Costs																						
E1.37	Total annual charge for PPP schemes	T21, L25	£m	I			0	N			0	N			0	N						
E1.38	Annual charge for PPP schemes less estimated runni	T21, L26	£m	C			0	N			0	N			0	N						
E1.39	Total operating costs	T21, L34	£m	C			390.037	B3			390.037	B3			385.233	B3						

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SECTION E : OPERATING COSTS AND EFFICIENCY
Table E1c: Activity Based Costing - Water Service

50
Report Year + 1
2004-05

150
Report Year + 1 Forecast
2004-05

250
Report Year + 2 Budget
2005-06

Line Ref.	Description	Ofwat Ref JR00	Units	Field Type
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Comment Necessary Y/N	Comment
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Comment Necessary Y/N	Comment
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Comment Necessary Y/N	Comment
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Service Analysis - Water : Direct Costs

E1.0	Not in use			
E1.1	Employment costs	T21, L1	£m	I/C
E1.2	Power	T21, L2	£m	I/C
E1.3	Hired and contracted services	T21, L4	£m	I/C
E1.4	Estimated running costs of PPP schemes	-	£m	I/C
E1.5	Materials and consumables	T21, L6	£m	I/C
E1.6	Service charges SEPA	T21, L7	£m	I/C
E1.7	Bulk supply imports	T21, L8	£m	I/C
E1.8	Other direct costs	T21, L9	£m	I/C

N Please refer to general comments on cost capture
N Please refer to general comments on cost capture
N Please refer to general comments on cost capture
N SW has no water service PPP schemes
N Please refer to general comments on cost capture
N Please refer to general comments on cost capture
N SW has no bulk supply imports
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N Please refer to general comments on cost capture
N Please refer to general comments on cost capture
N SW has no water service PPP schemes
N Please refer to general comments on cost capture
N Please refer to general comments on cost capture
N SW has no bulk supply imports
N Please refer to general comments on cost capture

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N Please refer to general comments on cost capture
N Please refer to general comments on cost capture
N SW has no water service PPP schemes
N Please refer to general comments on cost capture
N Please refer to general comments on cost capture
N SW has no bulk supply imports
N Please refer to general comments on cost capture

E1.9	Total direct costs	T21, L10	£m	C
E1.10	General and support employment costs	-	£m	I/C
E1.11	General and support other costs	-	£m	I/C

N Please refer to general comments on cost capture
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E1.12	Functional expenditure	T21, L12	£m	C
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N Please refer to general comments on cost capture

N Please refer to general comments on cost capture

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Operating Expenditure

E1.13	Customer services	T21, L13	£m	I
E1.14	Scientific services	T21, L14	£m	I
E1.15	Other business activities	T21, L15	£m	I
E1.16	Total business activities	T21, L16	£m	C
E1.17	Local authority rates	T21, L17	£m	I
E1.18	Doubtful debts	T21, L18	£m	I

N Please refer to general comments on cost capture
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E1.19	Exceptional items - start-up costs	-	£m	I
E1.20	Exceptional items - reorganisation costs	-	£m	I
E1.21	Exceptional items - severance costs	-	£m	I
E1.22	Exceptional items - other costs (specify)	-	£m	I
E1.23	Total Exceptional items	T21, L19	£m	C

N SW has no start up costs
N Please refer to general comments on cost capture
N Please refer to general comments on cost capture
N SW has no other exceptional costs
N Please refer to general comments on cost capture

N SW has no start up costs
N Please refer to general comments on cost capture
N Please refer to general comments on cost capture
N SW has no other exceptional costs
N Please refer to general comments on cost capture

N SW has no start up costs
N Please refer to general comments on cost capture
N SW has no start up costs
N SW has no other exceptional costs
N Please refer to general comments on cost capture

E1.24	Total opex less third party services	T21, L20	£m	C
E1.25	Third party services - opex	T21, L21	£m	I
E1.26	Total operating expenditure	T21, L16	£m	C

N Please refer to general comments on cost capture
N Please refer to general comments on cost capture
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N Please refer to general comments on cost capture

Reactive and Planned Maintenance (included in Opex)

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

N Please refer to general comments on cost capture
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N Please refer to general comments on cost capture

N Please refer to general comments on cost capture
N Please refer to general comments on cost capture

Capital Maintenance

E1.29	Infrastructure depreciation charge	T21, L25	£m	I/C
E1.30	Non-infrastructure depreciation charge	T21, L26	£m	I/C
E1.31	Amortisation of deferred credits	T21, L28	£m	I
E1.32	Amortisation of intangible assets	T21, L29	£m	I
E1.33	Business activities depreciation charge	T21, L30	£m	I

N Please refer to general comments on cost capture
N Please refer to general comments on cost capture
N SW has no amortisation of deferred credits
N SW has no amortisation of intangible assets
N Please refer to general comments on cost capture

N Please refer to general comments on cost capture
N Please refer to general comments on cost capture
N SW has no amortisation of deferred credits
N SW has no amortisation of intangible assets
N Please refer to general comments on cost capture

N Please refer to general comments on cost capture
N Please refer to general comments on cost capture
N SW has no amortisation of deferred credits
N SW has no amortisation of intangible assets
N Please refer to general comments on cost capture

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

N Please refer to general comments on cost capture
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N Please refer to general comments on cost capture

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E1.36	Total capital maintenance	T21, L33	£m	C
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N Please refer to general comments on cost capture

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N Please refer to general comments on cost capture

PPP Costs

E1.37	Total annual charge for PPP schemes	T21, L25	£m	I
E1.38	Annual charge for PPP schemes less estimated run	T21, L26	£m	C
E1.39	Total operating costs	T21, L34	£m	C

N SW has no water service PPP schemes
N SW has no water service PPP schemes
N Please refer to general comments on cost capture

N SW has no water service PPP schemes
N SW has no water service PPP schemes
N Please refer to general comments on cost capture

N SW has no water service PPP schemes
N SW has no water service PPP schemes
N Please refer to general comments on cost capture

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

Prepared by: Date:
Checked by: Date:
Authorised by: Douglas Millican Date:

ANNUAL RETURN INFORMATION REQUIREMENT

SECTION E : OPERATING COSTS AND EFFICIENCY
Table E2a: Activity Based Costing - Wastewater Service

					Report Year - 1 2002-03												
Line Ref.	Description	Ofwat Ref	Units	Field Type	10	20	30	40	50	60	70	80	199	210	220	999	
					Sewerage								Sewage Treatment	Sludge Treatment and Disposal	Sewerage Service Total		
					Area 1	Area 2	Area 3	Area 4	Area 5	Area 6	Area 7	Area 8	sub total			CG	
Service Analysis - Waste Water Direct Costs																	
E2.0	Name	-															
E2.1	Employment costs	T22_L1	£m	I/C													0
E2.2	Power	T22_L2	£m	I/C													0
E2.3	Hired and contracted services	T22_L4	£m	I/C													0
E2.4	Estimated running cost of PPP schemes	-	£m	I/C													0
E2.5	Materials and consumables	T22_L6	£m	I/C													0
E2.6	Service charges SEPA	T22_L7	£m	I/C													0
E2.7	Not in use																0
E2.8	Other direct costs	T22_L8	£m	I/C													0
E2.9	Total direct costs	T22_L11	£m	C	0	0	0	0	0	0	0	0	0	0	0	0	0
E2.10	General and support employment costs	-	£m	I/C													0
E2.11	General and support other costs	-	£m	I/C													0
E2.12	Functional expenditure	T22_L13	£m	C	0	0	0	0	0	0	0	0	0	0	0	0	0
Operating Expenditure																	
E2.13	Customer services	T22_L14	£m	I													
E2.14	Scientific services	T22_L15	£m	I													
E2.15	Other business activities	T22_L16	£m	I													
E2.16	Total business activities	T22_L17	£m	C													0
E2.17	Local authority rates	T22_L18	£m	I													
E2.18	Doubtful debts	T22_L19	£m	I													
E2.19	Exceptional items - start-up costs	-	£m	I													
E2.20	Exceptional items - reorganisation costs	-	£m	I													
E2.21	Exceptional items - severance costs	-	£m	I													
E2.22	Exceptional items - other costs (specify)	-	£m	I													
E2.23	Total Exceptional items	T22_L20	£m	C													0
E2.24	Total opex less third party services	T22_L21	£m	C													0
E2.25	Third party services - opex	T22_L22	£m	I													
E2.26	Total operating expenditure	T22_L23	£m	C													0
Reactive and Planned Maintenance (included in Opex)																	
E2.27	Reactive and planned maintenance infrastructure	T22_L24	£m	I/C													0
E2.28	Reactive and planned maintenance non-infrastructure	T22_L25	£m	I/C													0
Capital Maintenance																	
E2.29	Infrastructure depreciation charge	T22_L26	£m	I/C													0
E2.30	Non-infrastructure depreciation charge	T22_L26	£m	I/C													0
E2.31	Amortisation of deferred credits	T22_L29	£m	I													
E2.32	Amortisation of intangible assets	T22_L30	£m	I													
E2.33	Business activities depreciation charge	T22_L31	£m	I													
E2.34	Capital maintenance less third party services	T22_L32	£m	C													0
E2.35	Third party services - depreciation	T22_L33	£m	I													
E2.36	Total capital maintenance	T22_L34	£m	C													0
PPP Costs																	
E2.37	Total annual charge for PPP schemes	T21_L25	£m	I													
E2.38	Annual charge for PPP schemes less estimated running costs	T21_L26	£m	C													0
E2.39	Total operating costs	T22_L35	£m	C													0

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ANNUAL RETURN INFORMATION REQUIREMENT

SECTION E : OPERATING COSTS AND EFFICIENCY
Table E2b: Activity Based Costing - Wastewater Service

Report Year 2003-04

Line Ref.	Description	Ofwat Ref	Units	Field Type	Report Year 2003-04										Sewerage Service Total	CG		
					10	20	30	40	50	60	70	80	199	210			220	999
					Sewerage								Sewage Treatment	Sludge Treatment				
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	-		I	NW	NE	SE	SW										
E2.1	Employment costs	T22, L1	£m	I/C	2,276	3,902	2,915	5,167					14,26	11,074	3,514	28,848	A2	
E2.2	Power	T22, L2	£m	I/C	0,636	0,785	0,46	1,756					3,637	4,395	0,458	8,49	A2	
E2.3	Hired and contracted services	T22, L4	£m	I/C	0,435	0,9	0,778	3,152					5,265	2,503	4,41	12,178	A2	
E2.4	Estimated running cost of PPP schemes	-	£m	I/C	0,527	2,593	0,246	0					3,366	17,811	13,556	34,733	B3	
E2.5	Materials and consumables	T22, L6	£m	I/C	0,227	0,482	0,178	0,478					1,365	1,471	0,365	3,201	A2	
E2.6	Service charges SEPA	T22, L7	£m	I/C	0,165	0,191	0,155	0,571					1,082	6,401	0,134	7,617	A2	
E2.7	Not in use																	
E2.8	Other direct costs	T22, L8	£m	I/C	0,045	0,298	0,133	0,505					0,981	0,309	0,058	1,348	A2	
E2.9	Total direct costs	T22, L11	£m	C	4,311	9,151	4,865	11,629	0	0	0	0	29,956	43,964	22,495	96,415	A2	
E2.10	General and support employment costs	-	£m	I/C	0,406	0,836	0,694	0,962					2,898	2,207	0,794	5,899	A2	
E2.11	General and support other costs	-	£m	I/C	1,065	2,244	1,632	2,7					7,641	4,674	1,935	14,25	A2	
E2.12	Functional expenditure	T22, L13	£m	C	5,782	12,231	7,191	15,291	0	0	0	0	40,495	50,845	25,224	116,564	A2	
Operating Expenditure																		
E2.13	Customer services	T22, L14	£m	I												14,098	A2	
E2.14	Scientific services	T22, L15	£m	I												1,31	A2	
E2.15	Other business activities	T22, L16	£m	I												1,84	A2	
E2.16	Total business activities	T22, L17	£m	C												17,248	A2	
E2.17	Local authority rates	T22, L18	£m	I												14,92	A2	
E2.18	Doubtful debts	T22, L19	£m	I												20,505	A2	
E2.19	Exceptional items - start-up costs	-	£m	I												0	N	
E2.20	Exceptional items - reorganisation costs	-	£m	I												7,503	A2	
E2.21	Exceptional items - severance costs	-	£m	I												13,663	A2	
E2.22	Exceptional items - other costs (specify)	-	£m	I												0	N	
E2.23	Total Exceptional items	T22, L20	£m	C												21,166	A2	
E2.24	Total opex less third party services	T22, L21	£m	C												190,403	A2	
E2.25	Third party services - opex	T22, L22	£m	I												3,777	A2	
E2.26	Total operating expenditure	T22, L23	£m	C												194,18	A2	
Reactive and Planned Maintenance (included in Opex)																		
E2.27	Reactive and planned maintenance infrastructure	T22, L24	£m	I/C	1,817	3,194	2,412	5,508					12,931	0	0	12,931	D3	
E2.28	Reactive and planned maintenance non-infrastructure	T22, L25	£m	I/C	0,376	0,897	0,61	1,098					2,981	8,996	0,522	12,499	D3	
Capital Maintenance																		
E2.29	Infrastructure depreciation charge	T22, L26	£m	I/C									39,836	0	0	39,836	A2	
E2.30	Non-infrastructure depreciation charge	T22, L28	£m	I/C									16,29	32,68	4,347	53,317	A2	
E2.31	Amortisation of deferred credits	T22, L29	£m	I												-0,329	A2	
E2.32	Amortisation of intangible assets	T22, L30	£m	I												0	N	
E2.33	Business activities depreciation charge	T22, L31	£m	I												1,561	A2	
E2.34	Capital maintenance less third party services	T22, L32	£m	C												94,385	A2	
E2.35	Third party services - depreciation	T22, L33	£m	I												0,21	A2	
E2.36	Total capital maintenance	T22, L34	£m	C												94,595	A2	
PPP Costs																		
E2.37	Total annual charge for PPP schemes	T21, L25	£m	I												111,508	A2	
E2.38	Annual charge for PPP schemes less estimated run	T21, L26	£m	C												76,775	A2	
E2.39	Total operating costs	T22, L35	£m	C												365,55	A2	

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Authorised by: Douglas Millican Date:

SECTION E : OPERATING COSTS AND EFFICIENCY
Table E2b: Activity Based Costing - Wastewater Service

999
Report Year 2003-04
Comment Necessary Y/N
Comment

Line Ref.	Description	Owat Ref	Units	Field Type
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Service Analysis - Waste Water Direct Costs				
E2.0	Name	-		I
E2.1	Employment costs	T22, L1	£m	I/C
E2.2	Power	T22, L2	£m	I/C
E2.3	Hired and contracted services	T22, L4	£m	I/C
E2.4	Estimated running cost of PPP schemes	-	£m	I/C
E2.5	Materials and consumables	T22, L6	£m	I/C
E2.6	Service charges SEPA	T22, L7	£m	I/C
E2.7	Not in use	-		
E2.8	Other direct costs	T22, L8	£m	I/C

E2.9	Total direct costs	T22, L11	£m	C
E2.10	General and support employment costs	-	£m	I/C
E2.11	General and support other costs	-	£m	I/C

E2.12	Functional expenditure	T22, L13	£m	C
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Operating Expenditure				
E2.13	Customer services	T22, L14	£m	I
E2.14	Scientific services	T22, L15	£m	I
E2.15	Other business activities	T22, L16	£m	I
E2.16	Total business activities	T22, L17	£m	C

E2.17	Local authority rates	T22, L18	£m	I
E2.18	Doubtful debts	T22, L19	£m	I

E2.19	Exceptional items - start-up costs	-	£m	I
E2.20	Exceptional items - reorganisation costs	-	£m	I
E2.21	Exceptional items - severance costs	-	£m	I
E2.22	Exceptional items - other costs (specify)	-	£m	I
E2.23	Total Exceptional items	T22, L20	£m	C

E2.24	Total opex less third party services	T22, L21	£m	C
E2.25	Third party services - opex	T22, L22	£m	I

E2.26	Total operating expenditure	T22, L23	£m	C
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Reactive and Planned Maintenance (Included in Opex)				
E2.27	Reactive and planned maintenance infrastructure	T22, L24	£m	I/C
E2.28	Reactive and planned maintenance non-infrastructure	T22, L25	£m	I/C

Capital Maintenance				
E2.29	Infrastructure depreciation charge	T22, L26	£m	I/C
E2.30	Non-infrastructure depreciation charge	T22, L28	£m	I/C
E2.31	Amortisation of deferred credits	T22, L29	£m	I
E2.32	Amortisation of intangible assets	T22, L30	£m	I
E2.33	Business activities depreciation charge	T22, L31	£m	I

E2.34	Capital maintenance less third party services	T22, L32	£m	C
E2.35	Third party services - depreciation	T22, L33	£m	I

E2.36	Total capital maintenance	T22, L34	£m	C
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PPP Costs				
E2.37	Total annual charge for PPP schemes	T21, L25	£m	I
E2.38	Annual charge for PPP schemes less estimated running	T21, L26	£m	C

E2.39	Total operating costs	T22, L35	£m	C
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Comment Necessary	Comment	General	Benchmarking A1
N	Please refer to general comments on cost A1	A1	A1
N	Please refer to general comments on cost A2	A2	A2
N	Please refer to general comments on cost A3	A3	A3
N	Please refer to general comments on cost A4	A4	A4
N	Please refer to general comments on cost AX	AX	AX
N	Please refer to general comments on cost B2	B2	B2
N	Please refer to general comments on cost B3	B3	B3
N	Please refer to general comments on cost B4	B4	B4
N	Please refer to general comments on cost BX	BX	BX
N	Please refer to general comments on cost C2	C2	C2
N	Please refer to general comments on cost C3	C3	C3
N	Please refer to general comments on cost C4	C4	C4
N	Please refer to general comments on cost C5	C5	C5
N	Please refer to general comments on cost CX	CX	CX
N	Please refer to general comments on cost M	M	M
N	Please refer to general comments on cost D3	D3	D3
N	Please refer to general comments on cost D4	D4	D4
N	Please refer to general comments on cost D5	D5	D5
N	Please refer to general comments on cost D6	D6	D6
N	Please refer to general comments on cost DX	DX	DX

Issues with data	Problem ?	Solution
E2.29 should equal F9.8 (col 7)	Y	Please amend numbers so they reconcile

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ANNUAL RETURN INFORMATION REQUIREMENT

SECTION E : OPERATING COSTS AND EFFICIENCY
Table E2c: Activity Based Costing - Wastewater Service

Line Ref.	Description	Ofwat Ref	Units	Field Type	Report Year + 1 Budget 2004-05				Report Year + 1 Forecast 2004-05				Report Year + 2 Budget 2005-06						
					10	20	30	50	100	110	120	150	200	210	220	250			
					Sewerage All Areas Total	Sewage Treatment	Sludge Treatment	Sewerage Service Total CG	Sewerage All Areas Total	Sewage Treatment	Sludge Treatment	Sewerage Service Total CG	Sewerage All Areas Total	Sewage Treatment	Sludge Treatment	Sewerage Service Total CG			
Service Analysis - Waste Water Direct Costs																			
E2.0	Not in use																		
E2.1	Employment costs	T22, L1	£m	I/C	11.552	8.971	2.847	23.37 B3	11.552	8.971	2.847	23.37 B3	11.963	9.291	2.948	24.202 B3			
E2.2	Power	T22, L2	£m	I/C	2.947	3.561	0.371	6.879 B3	2.947	3.561	0.371	6.879 B3	3.052	3.687	0.384	7.123 B3			
E2.3	Hired and contracted services	T22, L4	£m	I/C	4.265	2.028	3.572	9.865 B3	4.265	2.028	3.572	9.865 B3	4.417	2.1	3.7	10.217 B3			
E2.4	Estimated running cost of PPP schemes	-	£m	I/C	3.508	24.921	16.251	44.68 B3	3.508	24.921	16.251	44.68 B3	3.544	26.024	16.769	46.337 B3			
E2.5	Materials and consumables	T22, L6	£m	I/C	1.105	1.191	0.296	2.592 B3	1.105	1.191	0.296	2.592 B3	1.145	1.234	0.306	2.685 B3			
E2.6	Service charges SEPA	T22, L7	£m	I/C	0.844	3.985	0.104	4.933 B3	0.844	3.985	0.104	4.933 B3	0.874	4.127	0.108	5.109 B3			
E2.7	Not in use																		
E2.8	Other direct costs	T22, L8	£m	I/C	0.795	0.25	0.047	1.092 B3	0.795	0.25	0.047	1.092 B3	0.823	0.259	0.049	1.131 B3			
E2.9	Total direct costs	T22, L11	£m	C	25.016	44.907	23.488	93.411 B3	25.016	44.907	23.488	93.411 B3	25.818	46.722	24.264	96.804 B3			
E2.10	General and support employment costs	-	£m	I/C	2.348	1.788	0.643	4.779 B3	2.348	1.788	0.643	4.779 B3	2.432	1.851	0.666	4.949 B3			
E2.11	General and support other costs	-	£m	I/C	6.189	3.786	1.568	11.543 B3	6.189	3.786	1.568	11.543 B3	6.41	3.921	1.624	11.955 B3			
E2.12	Functional expenditure	T22, L13	£m	C	33.553	50.481	25.699	109.733 B3	33.553	50.481	25.699	109.733 B3	34.66	52.494	26.554	113.708 B3			
Operating Expenditure																			
E2.13	Customer services	T22, L14	£m	I				11.42 B3				11.42 B3				11.827 B3			
E2.14	Scientific services	T22, L15	£m	I				1.061 B3				1.061 B3				1.099 B3			
E2.15	Other business activities	T22, L16	£m	I				1.49 B3				1.49 B3				1.544 B3			
E2.16	Total business activities	T22, L17	£m	C				13.971 B3				13.971 B3				14.47 B3			
E2.17	Local authority rates	T22, L18	£m	I				10.269 B3				10.269 B3				10.929 B3			
E2.18	Doubtful debts	T22, L19	£m	I				19.144 B3				19.144 B3				17.177 B3			
E2.19	Exceptional items - start-up costs	-	£m	I				0 N				0 N				0 N			
E2.20	Exceptional items - reorganisation costs	-	£m	I				10.294 B3				10.294 B3				2.003 B3			
E2.21	Exceptional items - severance costs	-	£m	I				9.129 B3				9.129 B3				0 N			
E2.22	Exceptional items - other costs (specify)	-	£m	I				0 N				0 N				0 N			
E2.23	Total Exceptional items	T22, L20	£m	C				19.423 B3				19.423 B3				2.003 B3			
E2.24	Total opex less third party services	T22, L21	£m	C				172.54 B3				172.54 B3				158.287 B3			
E2.25	Third party services - opex	T22, L22	£m	I				8.265 B3				8.265 B3				10.579 B3			
E2.26	Total operating expenditure	T22, L23	£m	C				180.805 B3				180.805 B3				168.866 B3			
Reactive and Planned Maintenance (included in Opex)																			
E2.27	Reactive and planned maintenance infrastructure	T22, L24	£m	I/C	10.475	0	0	10.475 D4	10.475	0	0	10.475 D4	10.849	0	0	10.849 D4			
E2.28	Reactive and planned maintenance non-infrastructure	T22, L25	£m	I/C	2.415	7.288	0.422	10.125 D4	2.415	7.288	0.422	10.125 D4	2.501	7.547	0.437	10.485 D4			
Capital Maintenance																			
E2.29	Infrastructure depreciation charge	T22, L26	£m	I/C	47.914	0	0	47.914 B3	47.914	0	0	47.914 B3	48.75	0	0	48.75 B3			
E2.30	Non-infrastructure depreciation charge	T22, L28	£m	I/C	15.779	31.77	4.226	51.775 B3	15.779	31.77	4.226	51.775 B3	17.237	34.705	4.617	56.559 B3			
E2.31	Amortisation of deferred credits	T22, L29	£m	I				0 N				0 N				0 N			
E2.32	Amortisation of intangible assets	T22, L30	£m	I				0 N				0 N				0 N			
E2.33	Business activities depreciation charge	T22, L31	£m	I				1.255 B3				1.255 B3				1.371 B3			
E2.34	Capital maintenance less third party services	T22, L32	£m	C				100.944 B3				100.944 B3				106.68 B3			
E2.35	Third party services - depreciation	T22, L33	£m	I				0.204 B3				0.204 B3				0.222 B3			
E2.36	Total capital maintenance	T22, L34	£m	C				101.148 B3				101.148 B3				106.902 B3			
PPP Costs																			
E2.37	Total annual charge for PPP schemes	T21, L25	£m	I				120.234 B2				120.234 B2				129.935 B2			
E2.38	Annual charge for PPP schemes less estimated running costs	T21, L26	£m	C				75.554 N				75.554 N				83.598 N			
E2.39	Total operating costs	T22, L35	£m	C				357.507 B3				357.507 B3				359.366 B3			

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ANNUAL RETURN INFORMATION REQUIREMENT

**SECTION E : OPERATING COSTS AND EFFICIENCY
Table E2c: Activity Based Costing - Wastewater Service**

50	150	250
Report Year + 1 Budget 2004-05	Report Year + 1 Forecast 2004-05	Report Year + 2 Budget 2005-06
Comment Necessary Y/N	Comment	Comment Necessary Y/N
Comment Necessary Y/N	Comment	Comment Necessary Y/N
Comment Necessary Y/N	Comment	Comment Necessary Y/N

Line Ref.	Description	Ofwat Ref	Units	Field Type									
Service Analysis - Waste Water Direct Costs					Name								
E2.0	Not in use												
E2.1	Employment costs	T22, L1	£m	I/C	N	Please refer to gen N	Please refer to general c N	Please refer to general c o A1	General	Benchmarking B2	Benchmarking A2	A1	G
E2.2	Power	T22, L2	£m	I/C	N	Please refer to gen N	Please refer to general c N	Please refer to general c o A2	G	A2	G	A2	G
E2.3	Hired and contracted services	T22, L4	£m	I/C	N	Please refer to gen N	Please refer to general c N	Please refer to general c o A3	G	A3	G	A3	N
E2.4	Estimated running cost of PPP schemes	-	£m	I/C	N	Please refer to gen N	Please refer to general c N	Please refer to general c o A4	N	A4	N	A4	N
E2.5	Materials and consumables	T22, L6	£m	I/C	N	Please refer to gen N	Please refer to general c N	Please refer to general c o AX	G	AX	G	AX	G
E2.6	Service charges SEPA	T22, L7	£m	I/C	N	Please refer to gen N	Please refer to general c N	Please refer to general c o B2	G	B2	G	B2	N
E2.7	Not in use							Please refer to general c o B3	B3	B3	N	B3	N
E2.8	Other direct costs	T22, L8	£m	I/C	N	Please refer to gen N	Please refer to general c N	Please refer to general c o B4	N	B4	N	B4	N
E2.9	Total direct costs	T22, L11	£m	C	N	Please refer to gen N	Please refer to general c N	Please refer to general c o BX	G	BX	G	BX	N
E2.10	General and support employment costs	-	£m	I/C	N	Please refer to gen N	Please refer to general c N	Please refer to general c o C2	N	C2	N	C2	N
E2.11	General and support other costs	-	£m	I/C	N	Please refer to gen N	Please refer to general c N	Please refer to general c o C3	N	C3	N	C3	N
E2.12	Functional expenditure	T22, L13	£m	C	N	Please refer to gen N	Please refer to general c N	Please refer to general c o C4	N	C4	N	C4	N
Operating Expenditure													
E2.13	Customer services	T22, L14	£m	I	N	Please refer to gen N	Please refer to general c N	Please refer to general c o C5	N	C5	N	C5	N
E2.14	Scientific services	T22, L15	£m	I	N	Please refer to gen N	Please refer to general c N	Please refer to general c o CX	N	CX	N	CX	N
E2.15	Other business activities	T22, L16	£m	I	N	Please refer to gen N	Please refer to general c N	Please refer to general c o M	N	M	N	M	N
E2.16	Total business activities	T22, L17	£m	C	N	Please refer to gen N	Please refer to general c N	Please refer to general c o N	N	N	N	N	N
E2.17	Local authority rates	T22, L18	£m	I	N	Please refer to gen N	Please refer to general c N	Please refer to general c o D3	N	D3	N	D3	N
E2.18	Doubtful debts	T22, L19	£m	I	N	Please refer to gen N	Please refer to general c N	Please refer to general c o D4	N	D4	N	D4	N
E2.19	Exceptional items - start-up costs	-	£m	I	N	SW has no start up N	SW has no start up coste N	Please refer to general c o D5	N	D5	N	D5	N
E2.20	Exceptional items - reorganisation costs	-	£m	I	N	Please refer to gen N	Please refer to general c N	Please refer to general c o D6	N	D6	N	D6	N
E2.21	Exceptional items - severance costs	-	£m	I	N	Please refer to gen N	Please refer to general c N	Please refer to general c o DX	N	DX	N	DX	N
E2.22	Exceptional items - other costs (specify)	-	£m	I	N	SW has no other e N	SW has no other excepti N						
E2.23	Total Exceptional items	T22, L20	£m	C	N	Please refer to gen N	Please refer to general c N						
E2.24	Total opex less third party services	T22, L21	£m	C	N	Please refer to gen N	Please refer to general c N						
E2.25	Third party services - opex	T22, L22	£m	I	N	Please refer to gen N	Please refer to general c N						
E2.26	Total operating expenditure	T22, L23	£m	C	N	Please refer to gen N	Please refer to general c N						
Reactive and Planned Maintenance (included in Opex)													
E2.27	Reactive and planned maintenance infrastructure	T22, L24	£m	I/C	N	Please refer to gen N	Please refer to general c N						
E2.28	Reactive and planned maintenance non-infrastructure	T22, L25	£m	I/C	N	Please refer to gen N	Please refer to general c N						
Capital Maintenance													
E2.29	Infrastructure depreciation charge	T22, L26	£m	I/C	N	Please refer to gen N	Please refer to general c N						
E2.30	Non-infrastructure depreciation charge	T22, L28	£m	I/C	N	Please refer to gen N	Please refer to general c N						
E2.31	Amortisation of deferred credits	T22, L29	£m	I	N	SW has no amortis: N	SW has no amortisation (N						
E2.32	Amortisation of intangible assets	T22, L30	£m	I	N	SW has no amortis: N	SW has no amortisation (N						
E2.33	Business activities depreciation charge	T22, L31	£m	I	N	Please refer to gen N	Please refer to general c N						
E2.34	Capital maintenance less third party services	T22, L32	£m	C	N	Please refer to gen N	Please refer to general c N						
E2.35	Third party services - depreciation	T22, L33	£m	I	N	Please refer to gen N	Please refer to general c N						
E2.36	Total capital maintenance	T22, L34	£m	C	N	Please refer to gen N	Please refer to general c N						
PPP Costs													
E2.37	Total annual charge for PPP schemes	T21, L25	£m	I	N	Please refer to gen N	Please refer to general c N						
E2.38	Annual charge for PPP schemes less estimated running cost	T21, L26	£m	C	N	Please refer to gen N	Please refer to general c N						
E2.39	Total operating costs	T22, L35	£m	C	N	Please refer to gen N	Please refer to general c N						

Checked by: Date:
 Authorised by: Douglas Millican Date:

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

Main data table with columns for Line Ref., Description, Unit, Type, and 25 project columns (Project 1 to Project 25) plus a Total column. Each project column contains 'Comment Necessary Y/N' and 'Comment' sub-columns.

Notes with date: E3.38 should equal Product of E3.37 and E3.37 E3.40 should equal the sum of E3.4 and E3.4

Prepared by: Date: Checked by: Date: Authorised by: Douglas Wilson Date:

ANNUAL RETURN INFORMATION REQUIREMENT

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

Table with columns: Line Ref., Description, Ofwat Ref, Units, Field Type. Rows include Source Types like Impounding reservoirs, Lochs, River and burn abstractions, Boreholes, Total, Raw water exports, Raw water imports.

Table with columns: 10, 20, 30, 40, 50, 60, 100, 120, 130, 140, 150, 160, 170, 200. Sub-tables: Number of Own Sources, Own Source Outputs, Total Source Outputs. Includes directional breakdown (NW, NE, SE, SW).

Table with columns: Line Ref., Description, Ofwat Ref, Units, Field Type. Rows include Impounding reservoirs, Lochs, River and burn abstractions, Boreholes, Total.

Table with columns: 10, 20, 30, 40, 50, 60, 100. Sub-table: Proportional Breakdown of Source output produced. Rows: Area 1-6, Total.

Table with columns: Line Ref., Description, Ofwat Ref, Units, Field Type. Rows include Peak demand - peak to average ratio, Average pumping head - resources and treatment, Not in use.

Table with columns: 10, 20, 30, 40, 50, 60, 100, 120, 150. Sub-tables: Peak Ratio & Pumping Head, Average Peak Ratio, Average Pumping Head.

Table with columns: Line Ref., Description, Ofwat Ref, Units, Field Type. Rows include Simple Disinfection, W1, W2, W3, W4, Total numbers of works, Total distribution input.

Table with columns: 10, 20, 30, 40, 50, 60, 100, 120, 130, 140, 150, 160, 170, 200. Sub-tables: Number of Own Works, Volume of Distribution Input Produced, Total volume Dist'n input.

Table with columns: Line Ref., Description, Ofwat Ref, Units, Field Type. Rows include Simple Disinfection, W1, W2, W3, W4, Total.

Table with columns: 10, 20, 30, 40, 50, 60, 100. Sub-table: Proportional Breakdown of Distribution Input. Rows: Area 1-6, Total.

Table with columns: Line Ref., Description, Ofwat Ref, Units, Field Type. Rows include Size band <=1 MI/d, >1 - <=2.5 MI/d, >2.5 - <=5 MI/d, >5 - <=10 MI/d, >10 - <=25 MI/d, >25 - <=50 MI/d, >50 - <=100 MI/d, >100 - <=175 MI/d, >175 MI/d, Total numbers of works, Proportion of distribution input - total.

Table with columns: 10, 20, 30, 40, 50, 60, 100, 120, 130, 140, 150, 160, 170, 200. Sub-tables: Number of Own Works, Proportional Breakdown of Distribution, Tot. prop'n of D.I.

Table with columns: Line Ref., Description, Ofwat Ref, Units, Field Type. Rows include Bulk Imports and Exports, Internal Imports from other resource areas, Internal Exports to other resource areas, Net change in volume, Distribution input within area.

Table with columns: 10, 20, 30, 40, 50, 60, 100. Sub-tables: Treated Water Transfers, Total. Includes net internal change should be zero.

Table with columns: Line Ref., Description, Ofwat Ref, Units, Field Type. Rows include Works size band <= 1 MI/d, >1 to <= 2.5 MI/d, >2.5 to <=5 MI/d, >5 to <=10 MI/d, >10 to <=25 MI/d, Sub-total small treatment works, >25 to <=50 MI/d, >50 to <=100 MI/d, >100 to <=175 MI/d, >175 MI/d, Sub-total large treatment works, Total numbers of works.

Table with columns: 10, 20, 30, 40, 50, 60, 100. Sub-table: Operating cost by area. Rows: Area 1-6, Total.

* This reference refers to JR00 whereas all other lines refer to JR01.

Prepared by: Date: Checked by: Date: Authorised by: Geoff Aitkenhead Date:

ANNUAL RETURN INFORMATION REQUIREMENT

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

Line Ref.	Description	Ofwat Ref	Units	Field Type
-----------	-------------	-----------	-------	------------

Source Types				
E4.0	Area Name	-	-	I
E4.1	Impounding reservoirs	T12, L1	nr, ml/d	I/C
E4.2	Lochs	-	nr, ml/d	I/C
E4.3	River and burn abstractions	T12, L2	nr, ml/d	I/C
E4.4	Boreholes	T12, L3	nr, ml/d	I/C
E4.5	Total	-	nr, ml/d	C
E4.6	Raw water exports	-	nr, ml/d	I/C
E4.7	Raw water imports	-	nr, ml/d	I/C

Peak demand and Pumping Head				
E4.13	Peak demand - peak to average ratio	T12, L5	nr	I
E4.14	Average pumping head - resources and treatment	T12, L6	m	I
E4.15	Not in use			
E4.16	Not in use			

Water Treatment Works by Process type				
E4.17	Simple Disinfection	-	nr, ml/d	I/C
E4.18	W1	-	nr, ml/d	I/C
E4.19	W2	-	nr, ml/d	I/C
E4.20	W3	-	nr, ml/d	I/C
E4.21	W4	-	nr, ml/d	I/C
E4.22	Total numbers of works	T12, L17	nr, ml/d	C
E4.23	Total distribution input	T12, L18	nr, ml/d	C

Issues with data

E4.12 should equal 1.0
E4.22 (Col 100) should equal E4.39 (Col 100)
E4.29 should equal 1.0
E4.40 should equal 1.0
E4.45 should equal 0

Problem ?

N 100
N 100
N 100
N 200
N 100

Solution

No solution required
No solution required
No solution required
No solution required
No solution required

* This reference refers to JR00 whereas all other lines refer to JR01.

Prepared by:	Date:
Checked by:	Date:
Authorised by: Geoff Aitkenhead	Date:

220	
Total Source Outputs	

Comment Necessary	Comment
Y/N	

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

120	
Average Peak Ratio	

Comment Necessary	Comment
Y/N	

N 120 Only two years of con

170	
Average Pumping Head	

Comment Necessary	Comment
Y/N	

N Pumping head data not held on DX

220	
Total volume Dist'n input Ml/d	

Comment Necessary	Comment
Y/N	

N Accuracy remains at band 4 due to accuracy of DI figures (Line A2.38) used to calculate volumes
N Accuracy remains at band 4 due to accuracy of DI figures (Line A2.38) used to calculate volumes
N Accuracy remains at band 4 due to accuracy of DI figures (Line A2.38) used to calculate volumes
N Accuracy remains at band 4 due to accuracy of DI figures (Line A2.38) used to calculate volumes
N Accuracy remains at band 4 due to accuracy of DI figures (Line A2.38) used to calculate volumes
N Accuracy remains at band 4 due to accuracy of DI figures (Line A2.38) used to calculate volumes

ANNUAL RETURN INFORMATION REQUIREMENT

SECTION E : OPERATING COSTS AND EFFICIENCY
Table E5: Large Water Treatment Works Information Data

Line Ref.	Description	Ofwat Ref	Units	Field Type	170 17	180 18	190 19	200 20	210 21	220 22	230 23	240 24	250 25	260 26
Works Size					CG	CG	CG	CG	CG	CG	CG	CG	CG	CG
E5.0	Name	-	I		Blairlinnans New	Bradán	Campbell	Camps	Carron Valley	Daer	Mingavie	Muirdykes	Overton Greenock	Turret
E5.1	Average day demand	-	Ml/d	I	62.04 B2	101.6 B3	31.43 B3	27.13 B3	104.5 B3	121.51 B3	397.58 B3	42.79 B3	36.89 A1	67.04 B3
E5.2	Peak day demand	-	Ml/d	I	76.56 B2	110.77 B3	33.6 B3	29.25 B3	117 B3	128.78 B3	422.45 B3	51.09 B3	39.11 A1	77 B3
E5.3	Works Capacity	-	Ml/d	I	90.9 A1	142 B3	45.6 A1	33.2 B2	125 A1	142 B3	489.5 B2	60 A1	62.5 A1	85.2 A1
E5.4	Headroom	-	Ml/d	C	14.34 B2	31.23 B3	12 B3	3.95 B3	8 B3	13.22 B3	67.05 B3	8.91 B3	23.39 A1	8.2 B3
Raw Water Source														
E5.5	Source type	-	Type	I	RB	IR	IR	IR	IR	IR	IR	IR	IR	IR
E5.6	Average turbidity	-	ntu	I	3.85 A1	1.63 A1	1.1 A1	1.01 A1	0.1 A1	1.32 A1	0.31 A1	2.75 A1	5.3 A1	1.36 A1
E5.7	Peak turbidity	-	ntu	I	9.91 A1	7.8 A1	2.43 A1	1.6 A1	0.1 A1	3.3 A1	0.37 A1	3 A1	32.4 A1	1.36 A1
E5.8	Average colour	-	hazen	I	16.64 A1	50 A1	56.8 A1	22.79 A1	3 A1	38.55 A1	13.06 A1	41.67 A1	73.81 A1	36.5 A1
E5.9	Peak colour	-	hazen	I	20 A1	61 A1	75 A1	29 A1	3 A1	44 A1	16 A1	46 A1	82 A1	50 A1
E5.10	Average parameter 'a'	-	mg/l	I	0.24 A1	0.514 A1	0.269 A1	0.113 A1	0.027 A1	0.12 A1	0.025 A1	0.199 A1	0.718 A1	0.162 A1
E5.11	Peak parameter 'a'	-	mg/l	I	0.846 A1	1.034 A1	0.559 A1	0.17 A1	0.027 A1	0.274 A1	0.061 A1	0.296 A1	2.704 A1	0.41 A1
E5.12	Average parameter 'b'	-	mg/l	I	0.12 A1	0.143 A1	0.682 A1	0.044 A1	0.024 A1	0.0402 A1	0.0051 A1	0.066 A1	0.194 A1	0.0169 A1
E5.13	Peak parameter 'b'	-	mg/l	I	0.427 A1	0.905 A1	0.982 A1	0.156 A1	0.03 A1	0.14 A1	0.006 A1	0.141 A1	1.792 A1	0.0425 A1
E5.14	Cryptosporidium risk assessment	-	high/med/low	I	Low	Low	Low	Low	Low	Low	High	Low	Low	Low
Compliance and Performance														
E5.15	Coliform: samples exceeding compliance value	-	%	I	0.25 A1	0 A1	0.25 A1	0 A1	0 A1	0 A1	0.14 A1	0 A1	0 A1	0 A1
E5.16	Turbidity: samples exceeding threshold value	-	%	I	0 A1	6.9 A1	0.95 A1	0 A1	0 A1	0.35 A1	0.47 A1	0 A1	0 A1	0 A1
E5.17	THM: samples exceeding threshold value	-	%	I	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	2.72 A1	0 A1	0 A1	0 A1
E5.18	Aluminium: samples exceeding threshold value	-	%	I	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	1.15 A1	0 A1	0 A1
E5.19	Iron: samples exceeding threshold value	-	%	I	0 A1	3.13 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1
E5.20	Manganese: samples exceeding threshold value	-	%	I	3.28 A1	8.04 A1	27.4 A1	1.47 A1	0 A1	8.11 A1	0 A1	3.97 A1	0 A1	33.33 A1
Processes														
E5.21	Simple disinfection only	-	1/0	I	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	1 A1	0 A1	0 A1	0 A1
E5.22	Simple disinfection and filtration (W1)	-	1/0	I	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1
E5.23	Single stage physical or chemical treatment (W2)	-	1/0	I	1 A1	0 A1	0 A1	1 A1	0 A1	0 A1	0 A1	0 A1	0 A1	1 A1
E5.24	More than one stage of treatment excl W4 (W3)	-	1/0	I	0 A1	1 A1	1 A1	0 A1	1 A1	1 A1	0 A1	1 A1	1 A1	0 A1
E5.25	Complex treatment, including Microfiltration (W4)	-	1/0	I	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1
Miscellaneous Data														
E5.26	Intake works on site	-	1/0	I	0 A1	1 A1	0 A1	0 A1	0 A1	1 A1	1 A1	0 A1	0 A1	0 A1
E5.27	Raw water pumping on site	-	1/0	I	0 A1	0 A1	0 A1	1 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1
E5.28	Treated water pumping on site	-	1/0	I	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	1 A1	1 A1	0 A1
E5.29	Waterworks own sludge treatment on site	-	1/0	I	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	0 A1	1 A1	1 A1	1 A1
E5.30	Waterworks sludge discharged off site	-	1/0	I	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1
Works Cost														
E5.31	Employment direct costs	-	£'000	I	143 B3	267 B3	143 B3	82 B3	185 B3	164 B3	766 B3	182 B3	144 B3	147 B3
E5.32	Power direct costs	-	£'000	I	47 B3	89 B3	15 B3	39 B3	166 B3	30 B3	41 B3	72 B3	44 B3	695 B3
E5.33	Hired and contracted services direct costs	-	£'000	I	55 B3	313 B3	10 B3	10 B3	84 B3	75 B3	-12 B3	62 B3	72 B3	45 B3
E5.34	Materials and consumables direct costs	-	£'000	I	101 B3	310 B3	144 B3	51 B3	331 B3	246 B3	276 B3	129 B3	121 B3	153 B3
E5.35	Service charges SEPA direct costs	-	£'000	I	2 B3	1 B3	5 B3	0 B3	3 B3	4 B3	1 B3	0 B3	3 B3	3 B3
E5.36	Other direct costs	-	£'000	I	0 B3	0 B3	0 B3	0 B3	5 B3	0 B3	3 B3	0 B3	2 B3	3 B3
E5.37	Total direct costs	-	£'000	C	348 B3	980 B3	317 B3	182 B3	774 B3	539 B3	1075 B3	445 B3	386 B3	1046 B3
E5.38	General and support expenditure	-	£'000	I	99 B3	267 B3	93 B3	54 B3	234 B3	156 B3	305 B3	129 B3	110 B3	345 B3
E5.39	Functional Expenditure	-	£'000	C	447 B3	1247 B3	410 B3	236 B3	1008 B3	695 B3	1380 B3	574 B3	496 B3	1391 B3
E5.40	Estimated intake and raw water pumping direct costs	-	£'000	I	0 N	0 N	0 N	0 M	0 N	0 N	0 N	0 N	0 N	0 N
E5.41	Estimated treated water pumping direct costs	-	£'000	I	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N
E5.42	Estimated waterworks sludge direct costs	-	£'000	I	64 B3	260 B3	33 B3	22 B3	92 B3	85 B3	136 B3	76 B3	76 B3	58 B3

Prepared by: Date:
 Checked by: Date:
 Authorised by: Geoff Aitkenhead Date:

SECTION E : OPERATING COSTS AND EFFICIENCY
Table E5: Large Water Treatment Works Information Database

For treatment works with a capacity greater than 25 Ml/d

Table with columns for Line Ref., Description, Otwat Ref, Units, Field Type, and 16 numbered columns (1-16) for data entry. Includes sub-sections: Works Size, Raw Water Source, Compliance and Performance, Processes, Miscellaneous Data, and Works Cost.

Prepared by: Date:
Checked by: Date:
Authorised by: Geoff Aikenhead Date:

SCOTTISH WATER

ANNUAL RETURN INFORMATION REQUIREMENT

SECTION E : OPERATING COSTS AND EFFICIENCY
Table E5: Large Water Treatment Works Information L

Line Ref.	Description	Otwat Ref	Units	Field Type	170 17		190 18		190 19		200 20		210 21		220 22		230 23		240 24		250 25		260 26	
					Comment Necessary	Comment	Comment Necessary	Comment	Comment Necessary	Comment	Comment Necessary	Comment	Comment Necessary	Comment	Comment Necessary	Comment	Comment Necessary	Comment	Comment Necessary	Comment	Comment Necessary	Comment	Comment Necessary	Comment
Works Size																								
E5.0	Name	-		I																				
E5.1	Average day demand	-	Mid	I	#NA	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N		
E5.2	Peak day demand	-	Mid	I																				
E5.3	Works Capacity	-	Mid	I																				
E5.4	Headroom	-	Mid	C	#NA	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N		
Raw Water Source																								
E5.5	Source type	-	Type	I	#NA	#NA	#NA	#NA	#NA	#NA	#NA	#NA	#NA	#NA	#NA	#NA	#NA	#NA	#NA	#NA	#NA	#NA		
E5.6	Average turbidity	-	ntu	I	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N		
E5.7	Peak turbidity	-	ntu	I	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N		
E5.8	Average colour	-	hazen	I	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N		
E5.9	Peak colour	-	hazen	I	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N		
E5.10	Average parameter 'a'	-	mg/l	I	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N		
E5.11	Peak parameter 'a'	-	mg/l	I	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N		
E5.12	Average parameter 'b'	-	mg/l	I	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N		
E5.13	Peak parameter 'b'	-	mg/l	I	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N		
E5.14	Cryptosporidium risk assessment	-	high/med/low	I	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N		
Compliance and Performance																								
E5.15	Coliform: samples exceeding compliance value	-	%	I	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N		
E5.16	Turbidity: samples exceeding threshold value	-	%	I	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N		
E5.17	THM: samples exceeding threshold value	-	%	I	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N		
E5.18	Aluminium: samples exceeding threshold value	-	%	I	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N		
E5.19	Iron: samples exceeding threshold value	-	%	I	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N		
E5.20	Manganese: samples exceeding threshold value	-	%	I	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N		
Processes																								
E5.21	Simple disinfection only	-	1.0	I	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N		
E5.22	Simple disinfection and filtration (W1)	-	1.0	I	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N		
E5.23	Single stage physical or chemical treatment (W2)	-	1.0	I	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N		
E5.24	More than one stage of treatment excl W4 (W3)	-	1.0	I	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N		
E5.25	Complex treatment, including Microfiltration (W4)	-	1.0	I	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N		
Miscellaneous Data																								
E5.26	Intake works on site	-	1.0	I	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N		
E5.27	Raw water pumping on site	-	1.0	I	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N		
E5.28	Treated water pumping on site	-	1.0	I	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N		
E5.29	Waterworks own sludge treatment on site	-	1.0	I	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N		
E5.30	Waterworks sludge discharged off site	-	1.0	I	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N		
Works Cost																								
E5.31	Employment direct costs	-	£'000	I	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N		
E5.32	Power direct costs	-	£'000	I	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N		
E5.33	Hired and contracted services direct costs	-	£'000	I	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N		
E5.34	Materials and consumables direct costs	-	£'000	I	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N		
E5.35	Service charges SEPA direct costs	-	£'000	I	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N		
E5.36	Other direct costs	-	£'000	I	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N		
E5.37	Total direct costs	-	£'000	C	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N		
E5.38	General and support expenditure	-	£'000	I	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N		
E5.39	Functional Expenditure	-	£'000	C	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N		
E5.40	Estimated intake and raw water pumping direct costs	-	£'000	I	N	Please refer to geneN	Please refer to geneN	Please refer to geneN	Please refer to geneN	Please refer to geneN	Please refer to geneN	Please refer to geneN	Please refer to geneN	Please refer to geneN	Please refer to geneN	Please refer to geneN	Please refer to geneN	Please refer to geneN	Please refer to geneN	Please refer to geneN	Please refer to geneN	Please refer to geneN		
E5.41	Estimated treated water pumping direct costs	-	£'000	I	N	Please refer to geneN	Please refer to geneN	Please refer to geneN	Please refer to geneN	Please refer to geneN	Please refer to geneN	Please refer to geneN	Please refer to geneN	Please refer to geneN	Please refer to geneN	Please refer to geneN	Please refer to geneN	Please refer to geneN	Please refer to geneN	Please refer to geneN	Please refer to geneN	Please refer to geneN		
E5.42	Estimated waterworks sludge direct costs	-	£'000	I	N	Please refer to geneN	Please refer to geneN	Please refer to geneN	Please refer to geneN	Please refer to geneN	Please refer to geneN	Please refer to geneN	Please refer to geneN	Please refer to geneN	Please refer to geneN	Please refer to geneN	Please refer to geneN	Please refer to geneN	Please refer to geneN	Please refer to geneN	Please refer to geneN	Please refer to geneN		

Prepared by: Date:
 Checked by: Date:
 Authorised by: Geoff Aikenhead Date:

ANNUAL RETURN INFORMATION REQUIREMENT

SECTION E : OPERATING COSTS AND EFFICIENCY
Table E6a: Water Explanatory Factors - Distribution

Line Ref.	Description	Ofwat Ref CMR 02	Units	Field Type	10	20	30	40	50	60	199				
					Report Year-1 2002-03										
					Area 1	Area 2	Area 3	Area 4	Area 5	Area 6	Total				
Area Data															
E6.0	Name	-		I											
E6.1	Annual average resident connected population	-	000	I/C							0				
E6.2	Total connected properties	-	000	I/C							0				
E6.3	Volume of water delivered to households	-	MI/d	I/C							0				
E6.4	Volume of water delivered to non-households	-	MI/d	I/C							0				
E6.5	Area	-	km 2	I/C							0				
E6.6	Not in use														
E6.7	Number of supply zones	-	nr	I/C							0				
Water main data															
E6.8	Total length of mains	-	km	I/C							0				
E6.9	Total length of unlined iron mains	-	km	I/C							0				
E6.10	Total length of mains > 300mm diameter	-	km	I/C							0				
E6.11	Water mains bursts	-	nr	I/C							0				
E6.12	Leakage level	-	MI/d	I/C							0				
E6.13	Properties reported for low pressure	-	nr	I/C							0				
Pumping Stations															
E6.14	Total number of pumping stations	-	nr	I/C							0				
E6.15	Total capacity of pumping stations	-	m3/d	I/C							0				
E6.15a	Total capacity of booster pumping stations	CM3, L18	Kw	I/C							0				
E6.16	Average pumping head	-	nr	I											
Service Reservoirs															
E6.17	Total number of service reservoirs	CM3, L13	nr	I/C							0				
E6.18	Total capacity of service reservoirs	CM3, L14	MI	I/C							0				
Water Towers															
E6.19	Total number of water towers	CM3, L15	nr	I/C							0				
E6.20	Total capacity of water towers	CM3, L16	MI	I/C							0				

Note: Water Distribution costs are reported on Table E1

Prepared by: Date:

Checked by: Date:

Authorised by: Date:

ANNUAL RETURN INFORMATION REQUIREMENT

SECTION E : OPERATING COSTS AND EFFICIENCY
Table E6b: Water Explanatory Factors - Distribution

Line Ref.	Description	Ofwat Ref CMR 02	Units	Field Type
Area Data				
E6.0	Name	-		I
E6.1	Annual average resident connected population	-	000	I/C
E6.2	Total connected properties	-	000	I/C
E6.3	Volume of water delivered to households	-	MI/d	I/C
E6.4	Volume of water delivered to non-households	-	MI/d	I/C
E6.5	Area	-	km 2	I/C
E6.6	Not in use			
E6.7	Number of supply zones	-	nr	I/C

Water main data				
E6.8	Total length of mains	-	km	I/C
E6.9	Total length of unlined iron mains	-	km	I/C
E6.10	Total length of mains > 300mm diameter	-	km	I/C
E6.11	Water mains bursts	-	nr	I/C
E6.12	Leakage level	-	MI/d	I/C
E6.13	Properties reported for low pressure	-	nr	I/C

Pumping Stations				
E6.14	Total number of pumping stations	-	nr	I/C
E6.15	Total capacity of pumping stations	-	m3/d	I/C
E6.15a	Total capacity of booster pumping stations	CM3, L18	Kw	I/C
E6.16	Average pumping head	-	nr	I

Service Reservoirs				
E6.17	Total number of service reservoirs	CM3, 13	nr	I/C
E6.18	Total capacity of service reservoirs	CM3, L14	MI	I/C

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

Report Year 2003-04													
Area 1		Area 2		Area 3		Area 4		Area 5		Area 6		Total	
CG		CG		CG		CG		CG		CG		CG	

NW		NE		SE		SW							
352	B2	1149	B2	1009	B2	2424	B2					4934	B2
195	B4	582	B4	499	B4	1203	B4					2479	B2
61.21	C4	197.68	C4	174.64	C4	420.86	C4					854.39	B3
35.05	C4	114.79	C4	70.26	C4	297.98	C4					518.08	B2
38868	A1	16918	A1	10985	A1	13205	A1					79976	A1
222	A1	41	A1	56	A1	75	A1					394	A1

9792	B2	11666	B2	9462	B2	15588	B2					46508	B2
1262	B3	3136	B3	4680	B3	8414	B3					17492	B3
240	B2	1390	B2	1071	B2	2504	B2					5205	B2
1094	B3	1714	B3	2291	B3	3367	B3					8466	B3
80.97	C4	171.82	C4	208.36	C4	684.4	C4					1145.55	C4
2572	C4	3134	C4	1672	C4	5610	C4					12988	C4

145	B4	129	B4	85	B3	131	B3					490	B4
70686	C4	613653	C4	57133	C4	1658567	C4					2400039	C4
7453	C4	12884	C4	845	C4	21902	C4					43084	C4
14.244	C4	35.045	C4	2.986	C4	37.286	C3					29.631	C4

664	B3	420	B3	237	B3	355	B3					1676	B3
373.81	C4	1309.34	C4	589.98	C4	1843.26	C4					4116.39	C4

1	B3	5	B3	0	B3	10	B3					16	B3
0.009	C4	10.44	C4	0	C4	23.34	C4					33.789	C4

Note: Water Distribution costs are reported on Table E1

Prepared by:	Date:
Checked by:	Date:
Authorised by: Geoff Aitkenhead	Date:

SECTION E : OPERATING COSTS AND EFFICIENCY
Table E6b: Water Explanatory Factors - Distribution

Line Ref.	Description	Ofwat Ref	Units	Field Type
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199
Report Year 2003-04

Comment Necessary Y/N	Comment
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Area Data		Name		
E6.0	Name	-		I
E6.1	Annual average resident connected population	-	000	I/C
E6.2	Total connected properties	-	000	I/C
E6.3	Volume of water delivered to households	-	MI/d	I/C
E6.4	Volume of water delivered to non-households	-	MI/d	I/C
E6.5	Area	-	km 2	I/C
E6.6	Not in use			
E6.7	Number of supply zones	-	nr	I/C

Water main data				
E6.8	Total length of mains	-	km	I/C
E6.9	Total length of unlined iron mains	-	km	I/C
E6.10	Total length of mains > 300mm diameter	-	km	I/C
E6.11	Water mains bursts	-	nr	I/C
E6.12	Leakage level	-	MI/d	I/C
E6.13	Properties reported for low pressure	-	nr	I/C

Pumping Stations				
E6.14	Total number of pumping stations	-	nr	I/C
E6.15	Total capacity of pumping stations	-	m3/d	I/C
E6.15a	Total capacity of booster pumping stations	CM3, L18	Kw	I/C
E6.16	Average pumping head	-	nr	I

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

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

General

N	A1	G
N	A2	G
N	A3	G
N	A4	N
N	AX	G
	B2	G
N	B3	G
	B4	N
	BX	G
N	C2	N
N	C3	N
N	C4	N
N	C5	N
N	Water Balance con	CX N
N	Comments as repo	M N
		N N
		D3 N
N	Corporate data set	D4 N
N	Extrapolation exerc	D5 N
N	Extrapolation exerc	D6 N
N	Extrapolation exerc	DX N

N Extrapolation exercise to fill data gaps. All capacities not yet held within corporate data set

N Extrapolation exercise to fill data gaps. All capacities not yet held within corporate data set.

Issues with data	Problem ?	Solution
E6.13 should equal B2.9	N	199 No solution required
E6.3 should equal A2.1+A2.5	Y	199 Please amend numbers so they reconcile
E6.2 should equal A1.69	Y	199 Please amend numbers so they reconcile
E6.1 should equal A1.71	Y	199 Please amend numbers so they reconcile

Note: Water Distribution costs are reported on Table E1

Prepared by:	Date:
Checked by:	Date:
Authorised by: Geoff Aitkenhead	Date:

ANNUAL RETURN INFORMATION REQUIREMENT

SECTION E : OPERATING COSTS AND EFFICIENCY
Table E7: Wastewater Explanatory Factors - Sewerage

Line Ref.	Description	Ofwat Ref	Units	Field Type	10	20	30	40	50	60	70	80	199
					Area 1	Area 2	Area 3	Area 4	Area 5	Area 6	Area 7	Area 8	Total
					CG	CG	CG	CG	CG	CG	CG	CG	CG
Area Data					Name								
E7.0	Name	-		I									
E7.1	Annual average resident connected population	T17a, L1	000	I/C	331 B2	1112 B2	971 B2	2274.01 B2					4688.01 B2
E7.2	Annual average non- resident connected population	T17a, L2	000	I/C	29 C3	37 C3	31 C3	32 C3					129 C3
E7.3	Volume of sewage collected (daily average)	T17a, L3	M/d	I/C	309 C4	773 C4	683 C4	1874 C4					3639 C4
E7.4	Total connected properties	T17a, L4	nr	I/C	148914 B2	551192 B2	504310 B2	1165812 B2					2370228 B2
E7.5	Area of Sewerage District	T17a, L5	km 2	I/C	38672 A1	16848 A1	13161 A1	10927 A1					79608 A1
E7.6	Drained Area	T17a, L6	km2	I/C	142 A2	373 A2	616 A2	219 A2					1350 A2
E7.7	Annual Precipitation	T17a, L8	mm	I	1561 A2	932 A2	955 A2	1365 A2					1214 A2
Sewerage Data													
E7.8	Total length of sewer	T17a, L9	km	I/C	4844 C3	10627 C3	9207 C3	20176 C3					44854 C3
E7.9	Total length of lateral sewer	-	km	I/C	1384 C4	3096 C4	2736 C4	5984 C4					13200 C4
E7.10	Length of combined sewer	T17a, L11	km	I/C	1648 C3	3845 C3	3271 C3	8139 C3					16903 C3
E7.11	Length of separate stormwater sewer	T17a, L12	km	I/C	685 C3	1765 C3	1692 C3	3309 C3					7451 C3
E7.12	Length of sewer > 1000 mm diameter	T17a, L13	km	I/C	18 C3	153 C3	181 C3	374 C3					726 C3
E7.13	Length of Critical Sewer	T17a, L14	km	I/C	386 B3	1351 B3	1337 B3	2796 B3					5870 B3
E7.14	Sewer Collapses	T17a, L15	nr	I/C	251 C4	563 C4	497 C4	1088 C4					2399 C4
Pumping Stations													
E7.15	Total number of pumping stations	T17a, L16	nr	I/C	507 A3	707 A3	271 A3	413 A3					1898 A3
E7.16	Total capacity of pumping stations (m ³ /d)	T17a, L17	m ³ /d	I/C	1947689 C4	5003962 C4	2125776 C4	1254873 C4					10332300 C4
E7.16a	Total capacity of pumping stations (kw)	CM6, L6	Kw	I/C	13623 C4	28633 C4	8198 C4	17851 C4					68305 C4
E7.17	Average pumping head	T17a, L18	m	I	11 C6	12 C6	8 C6	7 C6					11 C6
E7.18	Total number of combined pumping stations	T17a, L19	nr	I/C	315 B3	444 B3	184 B3	257 B3					1200 B3
E7.19	Total capacity of combined pumping stations	T17a, L20	m3/d	I/C	1134153 C4	4391675 C4	1907484 C4	902974 C4					8336286 C4
E7.20	Total number of stormwater pumping stations	T17a, L21	nr	I/C	22 B4	14 B4	0 B4	2 B4					38 B4
E7.21	Total capacity of stormwater pumping stations	T17a, L22	m3/d	I/C	464406 C4	89722 C4	0 C4	62072 C4					616200 C4
E7.22	Number of combined sewer overflows	T17a, L23	nr	I/C	725 B4	1123 B4	640 B4	1460 B4					3948 B4
E7.23	Number of combined sewer overflows (screened)	T17a, L24	nr	I/C	109 B4	196 B4	109 B4	186 B4					600 B4

Note: Sewerage costs are reported on Table E2

Prepared by:	Date:
Checked by:	Date:
Authorised by: Geoff Aitkenhead	Date:

SECTION E: OPERATING COSTS AND EFFICIENCY
Table E7: Wastewater Explanatory Factors - Sewerage

Line Ref.	Description	Unit	Value	Units Type	10		20		30		40		50		60		70		80		90		100	
					Comment Necessary	Comment	Comment Necessary	Comment	Comment Necessary	Comment	Comment Necessary	Comment	Comment Necessary	Comment	Comment Necessary	Comment	Comment Necessary	Comment	Comment Necessary	Comment	Comment Necessary	Comment	Comment Necessary	Comment
<p>Area Data</p> <p>E7.1 Name: [Area 1] [Area 2] [Area 3] [Area 4] [Area 5] [Area 6] [Area 7] [Area 8] Total</p> <p>E7.2 Annual average resident connected population: 1174, 11 [M] 100</p> <p>E7.3 Volume of sewage collected (daily average): 1174, 13 [M³] 10</p> <p>E7.4 Total length of sewer: 1174, 13 [km] 10</p> <p>E7.5 Total length of lateral sewer: [M] 10</p> <p>E7.6 Total length of combined sewer: 1174, 13 [km] 10</p> <p>E7.7 Total length of lateral sewer: [M] 10</p> <p>E7.8 Length of combined sewer: 1174, 13 [km] 10</p> <p>E7.9 Length of sewer > 1000 mm diameter: 1174, 13 [km] 10</p> <p>E7.10 Length of combined sewer: 1174, 13 [km] 10</p> <p>E7.11 Length of sewer > 1000 mm diameter: 1174, 13 [km] 10</p> <p>E7.12 Length of combined sewer: 1174, 13 [km] 10</p> <p>E7.13 Length of sewer > 1000 mm diameter: 1174, 13 [km] 10</p> <p>E7.14 Number of combined sewer overflows: 1174, 13 [M] 10</p> <p>E7.15 Total number of pumping stations: 1174, 13 [M] 10</p> <p>E7.16 Total capacity of pumping stations (M³/D): 1174, 13 [M³] 10</p> <p>E7.17 Total capacity of pumping stations (litre): 1174, 13 [M] 10</p> <p>E7.18 Total number of combined pumping stations: 1174, 13 [M] 10</p> <p>E7.19 Total capacity of combined pumping stations: 1174, 13 [M³] 10</p> <p>E7.20 Total number of stormwater pumping stations: 1174, 13 [M] 10</p> <p>E7.21 Total capacity of stormwater pumping stations: 1174, 13 [M³] 10</p> <p>E7.22 Number of combined sewer overflows: 1174, 13 [M] 10</p> <p>E7.23 Number of combined sewer overflows: 1174, 13 [M] 10</p> <p>E7.24 Number of combined sewer overflows: 1174, 13 [M] 10</p> <p>E7.25 Number of combined sewer overflows: 1174, 13 [M] 10</p> <p>E7.26 Number of combined sewer overflows: 1174, 13 [M] 10</p> <p>E7.27 Number of combined sewer overflows: 1174, 13 [M] 10</p> <p>E7.28 Number of combined sewer overflows: 1174, 13 [M] 10</p> <p>E7.29 Number of combined sewer overflows: 1174, 13 [M] 10</p> <p>E7.30 Number of combined sewer overflows: 1174, 13 [M] 10</p> <p>E7.31 Number of combined sewer overflows: 1174, 13 [M] 10</p> <p>E7.32 Number of combined sewer overflows: 1174, 13 [M] 10</p> <p>E7.33 Number of combined sewer overflows: 1174, 13 [M] 10</p> <p>E7.34 Number of combined sewer overflows: 1174, 13 [M] 10</p> <p>E7.35 Number of combined sewer overflows: 1174, 13 [M] 10</p> <p>E7.36 Number of combined sewer overflows: 1174, 13 [M] 10</p> <p>E7.37 Number of combined sewer overflows: 1174, 13 [M] 10</p> <p>E7.38 Number of combined sewer overflows: 1174, 13 [M] 10</p> <p>E7.39 Number of combined sewer overflows: 1174, 13 [M] 10</p> <p>E7.40 Number of combined sewer overflows: 1174, 13 [M] 10</p> <p>E7.41 Number of combined sewer overflows: 1174, 13 [M] 10</p> <p>E7.42 Number of combined sewer overflows: 1174, 13 [M] 10</p> <p>E7.43 Number of combined sewer overflows: 1174, 13 [M] 10</p> <p>E7.44 Number of combined sewer overflows: 1174, 13 [M] 10</p> <p>E7.45 Number of combined sewer overflows: 1174, 13 [M] 10</p> <p>E7.46 Number of combined sewer overflows: 1174, 13 [M] 10</p> <p>E7.47 Number of combined sewer overflows: 1174, 13 [M] 10</p> <p>E7.48 Number of combined sewer overflows: 1174, 13 [M] 10</p> <p>E7.49 Number of combined sewer overflows: 1174, 13 [M] 10</p> <p>E7.50 Number of combined sewer overflows: 1174, 13 [M] 10</p> <p>E7.51 Number of combined sewer overflows: 1174, 13 [M] 10</p> <p>E7.52 Number of combined sewer overflows: 1174, 13 [M] 10</p> <p>E7.53 Number of combined sewer overflows: 1174, 13 [M] 10</p> <p>E7.54 Number of combined sewer overflows: 1174, 13 [M] 10</p> <p>E7.55 Number of combined sewer overflows: 1174, 13 [M] 10</p> <p>E7.56 Number of combined sewer overflows: 1174, 13 [M] 10</p> <p>E7.57 Number of combined sewer overflows: 1174, 13 [M] 10</p> <p>E7.58 Number of combined sewer overflows: 1174, 13 [M] 10</p> <p>E7.59 Number of combined sewer overflows: 1174, 13 [M] 10</p> <p>E7.60 Number of combined sewer overflows: 1174, 13 [M] 10</p> <p>E7.61 Number of combined sewer overflows: 1174, 13 [M] 10</p> <p>E7.62 Number of combined sewer overflows: 1174, 13 [M] 10</p> <p>E7.63 Number of combined sewer overflows: 1174, 13 [M] 10</p> <p>E7.64 Number of combined sewer overflows: 1174, 13 [M] 10</p> <p>E7.65 Number of combined sewer overflows: 1174, 13 [M] 10</p> <p>E7.66 Number of combined sewer overflows: 1174, 13 [M] 10</p> <p>E7.67 Number of combined sewer overflows: 1174, 13 [M] 10</p> <p>E7.68 Number of combined sewer overflows: 1174, 13 [M] 10</p> <p>E7.69 Number of combined sewer overflows: 1174, 13 [M] 10</p> <p>E7.70 Number of combined sewer overflows: 1174, 13 [M] 10</p> <p>E7.71 Number of combined sewer overflows: 1174, 13 [M] 10</p> <p>E7.72 Number of combined sewer overflows: 1174, 13 [M] 10</p> <p>E7.73 Number of combined sewer overflows: 1174, 13 [M] 10</p> <p>E7.74 Number of combined sewer overflows: 1174, 13 [M] 10</p> <p>E7.75 Number of combined sewer overflows: 1174, 13 [M] 10</p> <p>E7.76 Number of combined sewer overflows: 1174, 13 [M] 10</p> <p>E7.77 Number of combined sewer overflows: 1174, 13 [M] 10</p> <p>E7.78 Number of combined sewer overflows: 1174, 13 [M] 10</p> <p>E7.79 Number of combined sewer overflows: 1174, 13 [M] 10</p> <p>E7.80 Number of combined sewer overflows: 1174, 13 [M] 10</p> <p>E7.81 Number of combined sewer overflows: 1174, 13 [M] 10</p> <p>E7.82 Number of combined sewer overflows: 1174, 13 [M] 10</p> <p>E7.83 Number of combined sewer overflows: 1174, 13 [M] 10</p> <p>E7.84 Number of combined sewer overflows: 1174, 13 [M] 10</p> <p>E7.85 Number of combined sewer overflows: 1174, 13 [M] 10</p> <p>E7.86 Number of combined sewer overflows: 1174, 13 [M] 10</p> <p>E7.87 Number of combined sewer overflows: 1174, 13 [M] 10</p> <p>E7.88 Number of combined sewer overflows: 1174, 13 [M] 10</p> <p>E7.89 Number of combined sewer overflows: 1174, 13 [M] 10</p> <p>E7.90 Number of combined sewer overflows: 1174, 13 [M] 10</p> <p>E7.91 Number of combined sewer overflows: 1174, 13 [M] 10</p> <p>E7.92 Number of combined sewer overflows: 1174, 13 [M] 10</p> <p>E7.93 Number of combined sewer overflows: 1174, 13 [M] 10</p> <p>E7.94 Number of combined sewer overflows: 1174, 13 [M] 10</p> <p>E7.95 Number of combined sewer overflows: 1174, 13 [M] 10</p> <p>E7.96 Number of combined sewer overflows: 1174, 13 [M] 10</p> <p>E7.97 Number of combined sewer overflows: 1174, 13 [M] 10</p> <p>E7.98 Number of combined sewer overflows: 1174, 13 [M] 10</p> <p>E7.99 Number of combined sewer overflows: 1174, 13 [M] 10</p> <p>E7.100 Number of combined sewer overflows: 1174, 13 [M] 10</p>																								

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

Table with columns for Line Ref., Description, Ofwat Ref, Units, Field Type, and Treatment Category (Septic Tanks, Primary, Sec Activated Sludge, Sec biological, Tertiary A1, Tertiary A2, Tertiary B1, Tertiary B2, Sea Preliminary, Sea Screened, Sea Unscreened, Total). Rows include Size Bands 0-6 and Total Sewage Treatment Works.

Table with columns for Loading (average daily load) and Total excluding Septic Tanks. Rows include Size Bands 0-6 and Total Load Received.

Table with columns for Compliance and Total. Rows include Size Bands 0-6 and Average compliance by works - all sizes.

Table with columns for Costs and Total. Rows include Direct costs for works in size bands 0-6, General and support expenditure, Functional expenditure, Power costs, and Service charges SEPA.

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SCOTTISH WATER

ANNUAL RETURN INFORMATION REQUIREMENT

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

Line Ref.	Description	Ofwat Ref	Units	Field Type	300	310	320	330	340	350	360	370
					30	31	32	33	34	35	36	37
					CG	CG	CG	CG	CG	CG	CG	CG
Works Size					Name							
E9.0	Name	-		I	Lossiemouth	Meadowhead	Newbridge	Nigg	Persley	Peterhead	Seafield	Stevenston
E9.1	Annual average resident connected population	T17b, L2	000	I	42.3 B3	187.9 B3	19.7 B3	209.7 B3	20.5 B3	23.1 B3	540 B3	68.3 B3
E9.2	Annual average non-resident connected population	T17b, L3	000	I	1 B3	4 B3	0.2 B3	3.8 B3	0.7 B3	0.7 B3	13.3 B3	0.8 B3
E9.3	Trade effluent load received by works	T17b, L4	kg/COD/day	I	608 B4	18528 B4	1122 B4	7017 B4	1477 B4	2648 B4	24902 B4	8829 B4
E9.4	Tanker load received by works	T17b, L5	kg/COD/day	I	580 B4	0 B4	13929 B4	7567 B4	0 B4	3047 B4	12885 B4	0 B4
E9.5	Population equivalent of total load received	T17b, L6	000	I	54 B3	318 B3	47 B3	303 B3	36 B3	54 B3	921 B3	88 B3
Treatability												
E9.6	Biological Oxygen Demand (BOD5) of influent	T17b, L7	mg/l	I	155 A2	131 A2	169 A2	243 A2	224 A2	315 A2	139 A2	71 A2
E9.7	Chemical Oxygen Demand (COD) of influent	T17b, L8	mg/l	I	602 A2	388 A2	455 A2	604 A2	562 A2	749 A2	395 A2	343 A2
E9.8	Total Organic Carbon (TOC) of influent	T17b, L9	mg/l	I	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N
E9.9	Suspended solids (SS) of influent	T17b, L10	mg/l	I	246 A2	146 A2	196 A2	302 A2	249 A2	342 A2	188 A2	151 A2
E9.10	Ammoniacal Nitrogen (NH3) of influent	T17b, L11	mg/l	I	0 N	13 A2	18 A2	0 N	33 A2	0 N	15 A2	17 A2
Compliance												
E9.11	Suspended solids consent	T17b, L12	mg/l	I	0 N	0 N	0 N	0 N	40 A1	0 N	150 A1	0 N
E9.12	BOD consent	T17b, L13	mg/l	I	25 A1	25 A1	15 A1	25 A1	25 A1	25 A1	25 A1	25 A1
E9.13	COD consent	T17b, L14	mg/l	I	125 A1	125 A1	125 A1	125 A1	125 A1	125 A1	125 A1	125 A1
E9.14	Ammonia consent	T17b, L15	mg/l	I	0 N	50 A1	5 A1	0 N	35 A1	0 N	0 N	50 A1
E9.15	Phosphate consent	T17b, L16	mg/l	I	0 N	0 N	0.5 A1	0 N	2 A1	0 N	0 N	0 N
E9.16	Compliance with effluent consent standard	T17b, L17	%	I	100 A1	100 A1	100 A1	100 A1	94 A1	100 A1	100 A1	100 A1
Flow												
E9.17	Average daily flow in dry weather	T17b, L18	Ml/d	I	10 B2	95 B2	9 B2	63 B2	11 B2	8 B2	232 B2	39 B2
E9.18	Ratio of daily maximum to minimum flow	T17b, L19	nr	I	3.3 B2	0 N	2.31 B2	2.8 B2	3.5 B2	3.2 B2	1.71 B2	0 N
Treatment Works Category												
E9.19	Primary	T17b, L20	1/0	I	0 A1	0 A1	1 A1	1 A1	0 A1	1 A1	1 A1	1 A1
E9.20	Secondary activated sludge	T17b, L21	1/0	I	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1
E9.21	Secondary biological	T17b, L22	1/0	I	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1
E9.22	Tertiary A1	T17b, L23	1/0	I	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1
E9.23	Tertiary A2	T17b, L24	1/0	I	0 A1	1 A1	1 A1	0 A1	1 A1	0 A1	1 A1	0 A1
E9.24	Tertiary B1	T17b, L25	1/0	I	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1
E9.25	Tertiary B2	T17b, L26	1/0	I	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1
Miscellaneous Data												
E9.26	Distance to next works	T17b, L27	km	I	13 A1	5 A1	4 A1	8 A1	8 A1	7 A1	12 A1	5 A1
E9.27	Sea outfalls at works	T17b, L28	1/0	I	1 A1	1 A1	0 A1	1 A1	0 A1	1 A1	1 A1	1 A1
E9.28	Terminal Pumping costs	T17b, L29	1/0	I	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1
E9.29	Own sludge	T17b, L30	1/0	I	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1
E9.30	Own sludge costs	T17b, L31	1/0	I	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N
E9.31	Sludge centre	T17b, L32	1/0	I	1 A1	1 A1	0 A1	1 A1	0 A1	0 A1	1 A1	0 A1
E9.32	Sludge centre costs	T17b, L33	1/0	I	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N
Works Cost												
E9.33	Employment costs	-	£'000	I	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N
E9.34	Power costs	T17b, L35	£'000	I	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N
E9.35	Hired and contracted services	-	£'000	I	292 B3	1391 B3	654 B3	1221 B3	490 B3	431 B3	4264 B3	789 B3
E9.36	Materials and consumables	-	£'000	I	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N
E9.37	Service charges SEPA	-	£'000	I	30 N	183 B3	51 N	226 B3	38 N	34 N	333 N	136 B3
E9.38	Other direct costs	-	£'000	I	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N
E9.39	Total direct costs	T17b, L34	£'000	C	322 B3	1574 B3	705 B3	1447 B3	528 B3	465 B3	4597 B3	925 B3
E9.40	General and support expenditure	T17b, L37	£'000	I	78 A2	74 A2	12 A2	62 A2	8 A2	7 A2	73 A2	17 A2
E9.41	Functional Expenditure	T17b, L38	£'000	C	400 B3	1648 B3	717 B3	1509 B3	536 B3	472 B3	4670 B3	942 B3
E9.42	Estimated terminal pumping station costs	T17b, L39	£'000	I	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N
E9.43	Estimated sludge costs	T17b, L40	£'000	I	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N

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SCOTTISH WATER

ANNUAL RETURN INFORMATION REQUIREMENT

SECTION E : OPERATING COSTS AND EFFICIENCY

Table E9: Large Sewage Treatment Works Information Data

Line Ref.	Description	Ofwat Ref	Units	Field Type
-----------	-------------	-----------	-------	------------

Works Size	Name
------------	------

E9.0	Name	-		i
E9.1	Annual average resident connected population	T17b, L2	000	i
E9.2	Annual average non-resident connected population	T17b, L3	000	i
E9.3	Trade effluent load received by works	T17b, L4	kg/COD/day	i
E9.4	Tanker load received by works	T17b, L5	kg/COD/day	i
E9.5	Population equivalent of total load received	T17b, L6	000	i

Treatability				
E9.6	Biological Oxygen Demand (BOD5) of influent	T17b, L7	mg/l	i
E9.7	Chemical Oxygen Demand (COD) of influent	T17b, L8	mg/l	i
E9.8	Total Organic Carbon (TOC) of influent	T17b, L9	mg/l	i
E9.9	Suspended solids (SS) of influent	T17b, L10	mg/l	i
E9.10	Ammoniacal Nitrogen (NH3) of influent	T17b, L11	mg/l	i

Compliance				
E9.11	Suspended solids consent	T17b, L12	mg/l	i
E9.12	BOD consent	T17b, L13	mg/l	i
E9.13	COD consent	T17b, L14	mg/l	i
E9.14	Ammonia consent	T17b, L15	mg/l	i
E9.15	Phosphate consent	T17b, L16	mg/l	i
E9.16	Compliance with effluent consent standard	T17b, L17	%	i

Flow				
E9.17	Average daily flow in dry weather	T17b, L18	Ml/d	i
E9.18	Ratio of daily maximum to minimum flow	T17b, L19	nr	i

Treatment Works Category				
E9.19	Primary	T17b, L20	1/0	i
E9.20	Secondary activated sludge	T17b, L21	1/0	i
E9.21	Secondary biological	T17b, L22	1/0	i
E9.22	Tertiary A1	T17b, L23	1/0	i
E9.23	Tertiary A2	T17b, L24	1/0	i
E9.24	Tertiary B1	T17b, L25	1/0	i
E9.25	Tertiary B2	T17b, L26	1/0	i

Miscellaneous Data				
E9.26	Distance to next works	T17b, L27	km	i
E9.27	Sea outfalls at works	T17b, L28	1/0	i
E9.28	Terminal Pumping costs	T17b, L29	1/0	i
E9.29	Own sludge	T17b, L30	1/0	i
E9.30	Own sludge costs	T17b, L31	1/0	i
E9.31	Sludge centre	T17b, L32	1/0	i
E9.32	Sludge centre costs	T17b, L33	1/0	i

Works Cost				
E9.33	Employment costs	-	£'000	i
E9.34	Power costs	T17b, L35	£'000	i
E9.35	Hired and contracted services	-	£'000	i
E9.36	Materials and consumables	-	£'000	i
E9.37	Service charges SEPA	-	£'000	i
E9.38	Other direct costs	-	£'000	i
E9.39	Total direct costs	T17b, L34	£'000	C
E9.40	General and support expenditure	T17b, L37	£'000	i
E9.41	Functional Expenditure	T17b, L38	£'000	C

E9.42	Estimated terminal pumping station costs	T17b, L39	£'000	i
E9.43	Estimated sludge costs	T17b, L40	£'000	i

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ANNUAL RETURN INFORMATION REQUIREMENT

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

Line Ref.	Description	Ofwat Ref	Units	Field Type	270
					27
Works Size					Comment Necessary
Name					Comment
					Y/N
E9.0	Name	-		I	
E9.1	Annual average resident connected population	T17b, L2	000	I	N
E9.2	Annual average non-resident connected population	T17b, L3	000	I	N
E9.3	Trade effluent load received by works	T17b, L4	kg/COD/day	I	N
E9.4	Tanker load received by works	T17b, L5	kg/COD/day	I	N
E9.5	Population equivalent of total load received	T17b, L6	000	I	N
Treatability					
E9.6	Biological Oxygen Demand (BOD5) of influent	T17b, L7	mg/l	I	N
E9.7	Chemical Oxygen Demand (COD) of influent	T17b, L8	mg/l	I	N
E9.8	Total Organic Carbon (TOC) of influent	T17b, L9	mg/l	I	N
E9.9	Suspended solids (SS) of influent	T17b, L10	mg/l	I	N
E9.10	Ammoniacal Nitrogen (NH3) of influent	T17b, L11	mg/l	I	N
Compliance					
E9.11	Suspended solids consent	T17b, L12	mg/l	I	N
E9.12	BOD consent	T17b, L13	mg/l	I	N
E9.13	COD consent	T17b, L14	mg/l	I	N
E9.14	Ammonia consent	T17b, L15	mg/l	I	N
E9.15	Phosphate consent	T17b, L16	mg/l	I	N
E9.16	Compliance with effluent consent standard	T17b, L17	%	I	N
Flow					
E9.17	Average daily flow in dry weather	T17b, L18	Ml/d	I	N
E9.18	Ratio of daily maximum to minimum flow	T17b, L19	nr	I	N
Treatment Works Category					
E9.19	Primary	T17b, L20	1/0	I	N
E9.20	Secondary activated sludge	T17b, L21	1/0	I	N
E9.21	Secondary biological	T17b, L22	1/0	I	N
E9.22	Tertiary A1	T17b, L23	1/0	I	N
E9.23	Tertiary A2	T17b, L24	1/0	I	N
E9.24	Tertiary B1	T17b, L25	1/0	I	N
E9.25	Tertiary B2	T17b, L26	1/0	I	N
Miscellaneous Data					
E9.26	Distance to next works	T17b, L27	km	I	N
E9.27	Sea outfalls at works	T17b, L28	1/0	I	N
E9.28	Terminal Pumping costs	T17b, L29	1/0	I	N
E9.29	Own sludge	T17b, L30	1/0	I	N
E9.30	Own sludge costs	T17b, L31	1/0	I	N
E9.31	Sludge centre	T17b, L32	1/0	I	N
E9.32	Sludge centre costs	T17b, L33	1/0	I	N
Works Cost					
E9.33	Employment costs	-	£'000	I	N
E9.34	Power costs	T17b, L35	£'000	I	N
E9.35	Hired and contracted services	-	£'000	I	N
E9.36	Materials and consumables	-	£'000	I	N
E9.37	Service charges SEPA	-	£'000	I	N
E9.38	Other direct costs	-	£'000	I	N
E9.39	Total direct costs	T17b, L34	£'000	C	N
E9.40	General and support expenditure	T17b, L37	£'000	I	N
E9.41	Functional Expenditure	T17b, L38	£'000	C	N
E9.42	Estimated terminal pumping station costs	T17b, L39	£'000	I	N
E9.43	Estimated sludge costs	T17b, L40	£'000	I	N

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ANNUAL RETURN INFORMATION REQUIREMENT

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

Main data table with columns: Line Ref., Description, Ofwat Ref, Units, Field Type, Works Size, Name, and 11 pairs of Comment Necessary/Comment columns (28-37).

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ANNUAL RETURN INFORMATION REQUIREMENTS

SECTION E : OPERATING COSTS AND EFFICIENCY
Table E10: Wastewater Explanatory Factors - Sludge Treatment and Disposal

Line Ref.	Description	Ofwat Ref	Units	Field Type	10	11	12	20	30	31	32	40	50	199	
					Disposal category										Total
					Farmland Untreated	Farmland Conventional	Farmland Advanced	Landfill	Incineration	Composted	Land Reclamation	Not in use	Other	CG	
Sludge volumes															
E10.1	Resident population served	T17g, L1	0	I	0 B3	415 B3	781 B3	57 B3	1868 B3	101 B3	1461 B3		37 B3	4720 B3	
E10.2	Amount of sewage sludge	T17g, L2	ttds	I	0 A1	6.5 B3	14.1 B3	0.3 B3	54 B3	2.3 B3	34.9 B3		0.5 B3	112.6 B3	
Sludge Treatment and Disposal cost:															
E10.3	Employment costs	T17g, L3	£000	I	0 N	672.1 C4	644.1 C4	8.9 C4	395.2 C4	458.8 C4	1327.5 C4		7.4 C4	3514 C4	
E10.4	Power costs	T17g, L6	£000	I	0 N	188.9 C4	22.9 C4	0.5 C4	0.4 C4	95.1 C4	150.1 C4		0 C4	457.9 C4	
E10.5	Hired and contracted services	-	£000	I	0 N	1338.7 C4	4575.4 C4	40.6 C4	6875.4 C4	254.2 C4	4880.8 C4		0.5 C4	17965.6 C4	
E10.6	Materials and consumables	-	£000	I	0 N	61.1 C4	34.9 C4	0.7 C4	3.1 C4	54.8 C4	210.3 C4		0 C4	364.9 C4	
E10.7	Service charges SEPA	-	£000	I	0 N	0 C4	10.3 C4	0 C4	99.8 C4	0 C4	24.3 C4		0.3 C4	134.7 C4	
E10.8	Other direct costs	-	£000	I	0 N	8.2 C4	9.3 C4	0.1 C4	1.5 C4	5.9 C4	33 C4		0 C4	58 C4	
E10.9	Total direct costs	T17g, L5	£000	C	0 N	2269 C4	5296.9 C4	50.8 C4	7375.4 C4	868.8 C4	6626 C4		8.2 C4	22495.1 C4	
E10.10	General and support expenditure	T17g, L8	£000	I	0 N	378.8 C4	591.8 C4	6 C4	102.3 C4	302.1 C4	1336 C4		12 C4	2729 C4	
E10.11	Functional Expenditure	T17g, L9	£000	C	0 N	2647.8 C4	5888.7 C4	56.8 C4	7477.7 C4	1170.9 C4	7962 C4		20.2 C4	25224.1 C4	
Sludge Treatment Type															
E10.12	In treatment works size band 0	-	nr	I	1100 B2										
E10.13	In treatment works size band 1	-	nr	I	332 B2										
E10.14	In treatment works size band 2	-	nr	I	182 B2										
E10.15	In treatment works size band 3	-	nr	I	206 B2										
E10.16	In treatment works size band 4	-	nr	I	132 B2										
E10.17	In treatment works size band 5	-	nr	I	35 B2										
E10.18	In treatment works size band 6	-	nr	I	13 B2										
E10.19	PPP schemes	-	nr	I	12 B2										

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SECTION E : OPERATING COSTS AND EFFICIENCY
Table E10: Wastewater Explanatory Factors - Sludge Treatment and Disposal

Line Ref.	Description	Ofwat Ref	Units	Field Type	10		11		12		20		30		31		32		40		50		199		General								
					Comment Necessary	Comment	Comment Necessary	Comment	Comment Necessary	Comment	Comment Necessary	Comment	Comment Necessary	Comment	Comment Necessary	Comment	Comment Necessary	Comment	Comment Necessary	Comment	Comment Necessary	Comment	Comment Necessary	Comment		Comment Necessary	Comment						
Sludge volumes																																	
E10.1	Resident population served	T17g, L1	0	I	N		N		N		N		N		N		N		N		N		N	A1	G								
E10.2	Amount of sewage sludge	T17g, L2	tds	I	N		N		N		N		N		N		N		N		N		N	A2	G								
Sludge Treatment and Disposal cc																																	
E10.3	Employment costs	T17g, L3	£000	I	N	SW does not dispose N	Please refer to generz N	Please refer to generz N	Please refer to generz N	Please refer to generz N	Please refer to generz N	Please refer to generz N	Please refer to generz N	Please refer to generz N	Please refer to generz N	Please refer to generz N	Please refer to generz N	Please refer to general comments on cost capture	N	Please refer to general co N	Please refer to general comments AX			A4	N								
E10.4	Power costs	T17g, L6	£000	I	N	SW does not dispose N	Please refer to generz N	Please refer to generz N	Please refer to generz N	Please refer to generz N	Please refer to generz N	Please refer to generz N	Please refer to generz N	Please refer to generz N	Please refer to generz N	Please refer to generz N	Please refer to generz N	Please refer to general comments on cost capture	N	Please refer to general co N	Please refer to general comments B2			A3	G								
E10.5	Hired and contracted services	-	£000	I	N	SW does not dispose N	Please refer to generz N	Please refer to generz N	Please refer to generz N	Please refer to generz N	Please refer to generz N	Please refer to generz N	Please refer to generz N	Please refer to generz N	Please refer to generz N	Please refer to generz N	Please refer to generz N	Please refer to general comments on cost capture	N	Please refer to general co N	Please refer to general comments B3				G								
E10.6	Materials and consumables	-	£000	I	N	SW does not dispose N	Please refer to generz N	Please refer to generz N	Please refer to generz N	Please refer to generz N	Please refer to generz N	Please refer to generz N	Please refer to generz N	Please refer to generz N	Please refer to generz N	Please refer to generz N	Please refer to generz N	Please refer to general comments on cost capture	N	Please refer to general co N	Please refer to general comments B4				N								
E10.7	Service charges SEPA	-	£000	I	N	SW does not dispose N	Please refer to generz N	Please refer to generz N	Please refer to generz N	Please refer to generz N	Please refer to generz N	Please refer to generz N	Please refer to generz N	Please refer to generz N	Please refer to generz N	Please refer to generz N	Please refer to generz N	Please refer to general comments on cost capture	N	Please refer to general co N	Please refer to general comments BX				G								
E10.8	Other direct costs	-	£000	I	N	SW does not dispose N	Please refer to generz N	Please refer to generz N	Please refer to generz N	Please refer to generz N	Please refer to generz N	Please refer to generz N	Please refer to generz N	Please refer to generz N	Please refer to generz N	Please refer to generz N	Please refer to generz N	Please refer to general comments on cost capture	N	Please refer to general co N	Please refer to general comments C2				N								
E10.9	Total direct costs	T17g, L5	£000	C	N	SW does not dispose N	Please refer to generz N	Please refer to generz N	Please refer to generz N	Please refer to generz N	Please refer to generz N	Please refer to generz N	Please refer to generz N	Please refer to generz N	Please refer to generz N	Please refer to generz N	Please refer to generz N	Please refer to general comments on cost capture	N	Please refer to general co N	Please refer to general comments C3				N								
E10.10	General and support expenditure	T17g, L8	£000	I	N	SW does not dispose N	Please refer to generz N	Please refer to generz N	Please refer to generz N	Please refer to generz N	Please refer to generz N	Please refer to generz N	Please refer to generz N	Please refer to generz N	Please refer to generz N	Please refer to generz N	Please refer to generz N	Please refer to general comments on cost capture	N	Please refer to general co N	Please refer to general comments C5				N								
E10.11	Functional Expenditure	T17g, L9	£000	C	N	SW does not dispose N	Please refer to generz N	Please refer to generz N	Please refer to generz N	Please refer to generz N	Please refer to generz N	Please refer to generz N	Please refer to generz N	Please refer to generz N	Please refer to generz N	Please refer to generz N	Please refer to generz N	Please refer to general comments on cost capture	N	Please refer to general co N	Please refer to general comments CX				N								
Sludge Treatment Type																																	
E10.12	In treatment works size band 0	-	nr	I	N						N														N	N							
E10.13	In treatment works size band 1	-	nr	I	N						N															D3	N						
E10.14	In treatment works size band 2	-	nr	I	N						N																D4	N					
E10.15	In treatment works size band 3	-	nr	I	N						N																D5	N					
E10.16	In treatment works size band 4	-	nr	I	N						N																D6	N					
E10.17	In treatment works size band 5	-	nr	I	N						N																	DX	N				
E10.18	In treatment works size band 6	-	nr	I	N						N																						
E10.19	PPP schemes	-	nr	I	N						N																						
Issues with data																																	
Problem ?																																	
Solution																																	
E10.11 should equal E2.12					Y		199																										
E10.10 should equal E2.10 + E2.11					N		199																										
E10.9 should equal E2.9					Y		199																										
E10.4 should equal E2.2					Y		199																										

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ANNUAL RETURN INFORMATION REQUIREMENTS

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

Line Ref.	Description	Ofwat Ref	Units	Field Type	10		20	
					Water Service	CG	Wastewater Service	CG
Employee numbers								
E11.1	Direct operations	-	nr	I	1071	B2	904	B2
E11.2	Indirect operations (General and support)	-	nr	I	270	B2	160	B2
E11.3	Other (incl hired and contracted)	-	nr	I	364	B2	194	B2
E11.4	Total employee numbers	-	nr	C	1705	B2	1258	B2
Management and General Assets								
E11.5	Number of Offices	-	nr	I	40	B2	40	B2
E11.6	Area of Offices	-	m ²	I	26631	B2	24951	B2
E11.7	Number of Laboratories	-	nr	I	3	B2	2	B2
E11.8	Area of Laboratories	-	m ²	I	15235	C3	1493	C3
E11.9	Number of Depots	-	nr	I	74	B2	66	B2
E11.10	Area of Depots	-	m ²	I	49578	C3	40837	C3
E11.11	Number of Workshops	-	nr	I	0	C3	0	C3
E11.12	Area of Workshops	-	m ²	I	0	C3	0	C3
E11.13	Number of Control Centres	-	nr	I	4	B2	4	B2
E11.14	Area of Control Centres	-	m ²	I	420	C3	200	C3
E11.15	Vehicles & Plant	-	£m	I	23.994	C3	17.706	C3
E11.16	% Coverage of Telemetry Systems	-	%	I	14.85	B2	18.15	B2
E11.17	Number of Telemetry Outstations	-	nr	I	1395	B2	1705	B2
E11.18	Information Systems: Personal Computers	-	nr	I	2923	C3	2157	C3
E11.19	Information Systems: Workstations	-	nr	I	167	C3	124	C3
E11.20	Information Systems: Mainframes	-	nr	I	12	B2	12	B2

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Edition 2

ANNUAL RETURN INFORMATION REQUIREMENTS

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

Line Ref.	Description	Ofwat Ref	Units	Field Type	10		20		
					Water Service		Wastewater Service		
					Comment Necessary Y/N	Comment	Comment Necessary Y/N	Comment	
Employee numbers									
E11.1	Direct operations	-	nr	I	N		N		General
E11.2	Indirect operations (General and support)	-	nr	I	N		N		A1 G
E11.3	Other (incl hired and contracted)	-	nr	I	N		N		A2 G
E11.4	Total employee numbers	-	nr	C	N		N		A3 G
									A4 N
									AX G
Management and General Assets									
E11.5	Number of Offices	-	nr	I	N		N		B2 G
E11.6	Area of Offices	-	m ²	I	N		N		B3 G
E11.7	Number of Laboratories	-	nr	I	N		N		B4 N
E11.8	Area of Laboratories	-	m ²	I	N	Sourced from historic	N	Sourced from historical records or estimated	BX N
E11.9	Number of Depots	-	nr	I	N		N		C2 N
E11.10	Area of Depots	-	m ²	I	N	Sourced from historic	N	Sourced from historical records or estimated	C3 N
E11.11	Number of Workshops	-	nr	I	N	Sourced from historic	N	Sourced from historical records or estimated	C4 N
E11.12	Area of Workshops	-	m ²	I	N	Sourced from historic	N	Sourced from historical records or estimated	C5 N
E11.13	Number of Control Centres	-	nr	I	N		N		CX N
E11.14	Area of Control Centres	-	m ²	I	N	Sourced from historic	N	Sourced from historical records or estimated	M N
E11.15	Vehicles & Plant	-	£m	I	N	Allocation based on tN	N	Allocation based on the split for employee numbers	N N
E11.16	% Coverage of Telemetry Systems	-	%	I	N		N		D3 N
E11.17	Number of Telemetry Outstations	-	nr	I	N		N		D4 N
E11.18	Information Systems: Personal Computers	-	nr	I	N	Allocation based on tN	N	Allocation based on the split for employee numbers	D5 N
E11.19	Information Systems: Workstations	-	nr	I	N	Allocation based on tN	N	Allocation based on the split for employee numbers	D6 N
E11.20	Information Systems: Mainframes	-	nr	I	N		N		DX N

Issues with data	Problem ?	Solution
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Edition 2