

ANNUAL RETURN INFORMATION REQUIREMENTS

SECTION E : OPERATING COSTS AND EFFICIENCY

Table E1a: Activity Based Costing - Water Service

					Report Year - 1 2003-04														999	
Line Ref.	Description	Ofwat Ref JR 00	Units	Field Type	10	20	30	40	50	60	199	210	220	230	240	250	260	299	Water Service	
					Water Resources & Treatment						Water Distribution						Total	CG		
					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		
Service Analysis - Water : Direct Costs																				
E1.0	Name	-		I																
E1.1	Employment costs	T21. L1	£m	I/C							0							0	0	
E1.2	Power	T21. L2	£m	I/C							0							0	0	
E1.3	Hired and contracted services	T21. L4	£m	I/C							0							0	0	
E1.4	Estimated running cost of PPP schemes	-	£m	I/C							0							0	0	
E1.5	Materials and consumables	T21. L6	£m	I/C							0							0	0	
E1.6	Service charges SEPA	T21. L7	£m	I/C							0							0	0	
E1.7	Bulk supply imports	T21. L8	£m	I/C							0							0	0	
E1.8	Other direct costs	T21. L9	£m	I/C							0							0	0	
E1.9	Total direct costs	T21. L10	£m	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
E1.10	General and support employment costs	-	£m	I/C							0							0	0	
E1.11	General and support other costs	-	£m	I/C							0							0	0	
E1.12	Functional expenditure	T21. L12	£m	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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							0	0	
E1.28	Reactive and planned maintenance non-infrastructure	T21. L24	£m	I/C							0							0	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																
E1.38	Annual charge for PPP schemes less estimated runnir	T21. L26	£m	C															0	
E1.39	Total operating costs	T21. L34	£m	C															0	

Prepared by: Date:
 Checked by: Date:
 Authorised by: Date:

ANNUAL RETURN INFORMATION REQUIREMENTS

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

					Report Year 2004-05																
					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	3.339	2.522	2.096	4.161			12.118	4.62	4.735	4.399	9.065			22.819	34.937	A2	
E1.2	Power	T21, L2	£m	I/C	1.036	1.301	0.905	2.654			5.896	0.343	1.209	0.191	1.684			3.427	9.323	A2	
E1.3	Hired and contracted services	T21, L4	£m	I/C	0.629	0.543	0.663	1.281			3.116	0.476	0.926	1.039	0.829			3.27	6.386	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	1.759	1.615	1.402	4.172			8.948	0.542	0.301	0.351	0.561			1.755	10.703	A2	
E1.6	Service charges SEPA	T21, L7	£m	I/C	0.125	0.032	0.072	0.087			0.316	0.022	0.009	0.005	0.007			0.043	0.359	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	0.127	0.04	0.078	0.091			0.336	0.219	0.22	0.585	1.021			2.045	2.381	A2	
E1.9	Total direct costs	T21, L10	£m	C	7.015	6.053	5.216	12.446	0	0	30.73	6.222	7.4	6.57	13.167	0	0	33.359	64.089	A2	
E1.10	General and support employment costs	-	£m	I/C	0.913	0.574	0.471	1.296			3.254	1.071	1.079	0.898	1.667			4.715	7.969	A2	
E1.11	General and support other costs	-	£m	I/C	1.716	1.373	0.848	1.781			5.718	2.459	2.624	1.717	4.253			11.053	16.771	A2	
E1.12	Functional expenditure	T21, L12	£m	C	9.644	8	6.535	15.523	0	0	39.702	9.752	11.103	9.185	19.087	0	0	49.127	88.829	A2	
Operating Expenditure																					
E1.13	Customer services	T21, L13	£m	I																13.545	A2
E1.14	Scientific services	T21, L14	£m	I																9.032	A2
E1.15	Other business activities	T21, L15	£m	I																3.023	A2
E1.16	Total business activities	T21, L16	£m	C																25.6	A2
E1.17	Local authority rates	T21, L17	£m	I																14.769	A2
E1.18	Doubtful debts	T21, L18	£m	I																15.079	A2
E1.19	Exceptional items - start-up costs	-	£m	I																0	N
E1.20	Exceptional items - reorganisation costs	-	£m	I																11.194	A2
E1.21	Exceptional items - severance costs	-	£m	I																22.566	A2
E1.22	Exceptional items - other costs (specify)	-	£m	I																0	N
E1.23	Total Exceptional items	T21, L19	£m	C																33.76	A2
E1.24	Total opex less third party services	T21, L20	£m	C																178.037	A2
E1.25	Third party services - opex	T21, L21	£m	I																37.299	A2
E1.26	Total operating expenditure	T21, L16	£m	C																215.336	A2
Reactive and Planned Maintenance (included in Opex)																					
E1.27	Reactive and planned maintenance infrastructure	T21, L23	£m	I/C	0	0.068	0.041	0.356			0.465	4.323	3.349	3	7.384			18.056	18.521	D3	
E1.28	Reactive and planned maintenance non-infrastructure	T21, L24	£m	I/C	3.128	2.017	0.904	2.326			8.375	1.026	0.747	0.43	0.445			2.648	11.023	D3	
Capital Maintenance																					
E1.29	Infrastructure depreciation charge	T21, L25	£m	I/C							4.955							99.556	104.511	A2	
E1.30	Non-infrastructure depreciation charge	T21, L26	£m	I/C							33.168							21.433	54.601	A2	
E1.31	Amortisation of deferred credits	T21, L28	£m	I																-0.507	A2
E1.32	Amortisation of intangible assets	T21, L29	£m	I																0	N
E1.33	Business activities depreciation charge	T21, L30	£m	I																3.232	A2
E1.34	Capital maintenance less third party services	T21, L31	£m	C																161.837	A2
E1.35	Third party services - depreciation	T21, L32	£m	I																1.953	A2
E1.36	Total capital maintenance	T21, L33	£m	C																163.79	A2
PPP Costs																					
E1.37	Total annual charge for PPP schemes	T21, L25	£m	I																	N
E1.38	Annual charge for PPP schemes less estimated running	T21, L26	£m	C																0	N
E1.39	Total operating costs	T21, L34	£m	C																379.126	A2

Prepared by: Caroline Hay..... Date: 17/06/05.....
 Checked by: Jo Dow..... Date: 17/06/05.....
 Authorised by: Douglas Millican..... Date: 17/06/05.....

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 2005-06				Report Year + 1 Forecast 2005-06				Report Year + 2 Budget 2006-07									
					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	10.923	20.569	31.492	B3	10.923	20.569	31.492	B3	13.484	25.392	38.876	B3						
E1.2	Power	T21, L2	£m	I/C	5.315	3.089	8.404	B3	5.315	3.089	8.404	B3	6.561	3.813	10.374	B3						
E1.3	Hired and contracted services	T21, L4	£m	I/C	2.809	2.948	5.757	B3	2.809	2.948	5.757	B3	3.468	3.639	7.107	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	8.066	1.582	9.648	B3	8.066	1.582	9.648	B3	9.957	1.953	11.91	B3						
E1.6	Service charges SEPA	T21, L7	£m	I/C	0.285	0.039	0.324	B3	0.285	0.039	0.324	B3	0.352	0.048	0.4	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	0.303	1.843	2.146	B3	0.303	1.843	2.146	B3	0.374	2.275	2.649	B3						
E1.9	Total direct costs	T21, L10	£m	C	27.701	30.07	57.771	B3	27.701	30.07	57.771	B3	34.196	37.12	71.316	B3						
E1.10	General and support employment costs	-	£m	I/C	2.933	4.25	7.183	B3	2.933	4.25	7.183	B3	3.621	5.246	8.867	B3						
E1.11	General and support other costs	-	£m	I/C	5.154	9.958	15.112	B3	5.154	9.958	15.112	B3	6.362	12.293	18.655	B3						
E1.12	Functional expenditure	T21, L12	£m	C	35.788	44.278	80.066	B3	35.788	44.278	80.066	B3	44.179	54.659	98.838	B3						
Operating Expenditure																						
E1.13	Customer services	T21, L13	£m	I			12.547	B3			12.547	B3			7.371	B3						
E1.14	Scientific services	T21, L14	£m	I			8.141	B3			8.141	B3			10.05	B3						
E1.15	Other business activities	T21, L15	£m	I			2.724	B3			2.724	B3			3.363	B3						
E1.16	Total business activities	T21, L16	£m	C			23.412	B3			23.412	B3			20.784	B3						
E1.17	Local authority rates	T21, L17	£m	I			17.521	B3			17.521	B3			19.169	B3						
E1.18	Doubtful debts	T21, L18	£m	I			15.24	B3			15.24	B3			19.217	B3						
E1.19	Exceptional items - start-up costs	-	£m	I			0	N			0	N			0	N						
E1.20	Exceptional items - reorganisation costs	-	£m	I			1.817	B3			1.817	B3			0	N						
E1.21	Exceptional items - severance costs	-	£m	I			0	N			0	N			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			1.817	B3			1.817	B3			0	N						
E1.24	Total opex less third party services	T21, L20	£m	C			138.056	B3			138.056	B3			158.008	B3						
E1.25	Third party services - opex	T21, L21	£m	I			52.326	B3			52.326	B3			0	N						
E1.26	Total operating expenditure	T21, L16	£m	C			190.382	B3			190.382	B3			158.008	B3						
Reactive and Planned Maintenance (included in Opex)																						
E1.27	Reactive and planned maintenance infrastructure	T21, L23	£m	I	0.419	16.274	16.693	D4	0.419	16.274	16.693	D4	0.517	20.089	20.606	D4						
E1.28	Reactive and planned maintenance non-infrastructure	T21, L24	£m	I	7.549	2.387	9.936	D4	7.549	2.387	9.936	D4	9.319	2.946	12.265	D4						
Capital Maintenance																						
E1.29	Infrastructure depreciation charge	T21, L25	£m	I/C	4.958	99.621	104.579	B3	4.958	99.621	104.579	B3	3.563	71.59	75.153	B3						
E1.30	Non-infrastructure depreciation charge	T21, L26	£m	I/C	32.43	20.956	53.386	B3	32.43	20.956	53.386	B3	32.887	21.251	54.138	B3						
E1.31	Amortisation of deferred credits	T21, L28	£m	I			-0.507	B3			-0.507	B3			-1.26	B3						
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			2.667	B3			2.667	B3			2.206	B3						
E1.34	Capital maintenance less third party services	T21, L31	£m	C			160.125	B3			160.125	B3			130.237	B3						
E1.35	Third party services - depreciation	T21, L32	£m	I			1.613	B3			1.613	B3			0	N						
E1.36	Total capital maintenance	T21, L33	£m	C			161.738	B3			161.738	B3			130.237	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 running	T21, L26	£m	C			0	N			0	N			0	N						
E1.39	Total operating costs	T21, L34	£m	C			352.12	B3			352.12	B3			288.245	B3						

Prepared by: Caroline Hay..... Date: 17/06/05.....
 Checked by: Jo Dow..... Date: 17/06/05.....
 Authorised by: Douglas Millican..... Date: 17/06/05.....

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

50
Report Year + 1 Budget
2005-06

150
Report Year + 1 Forecast
2005-06

250
Report Year + 2 Budget
2006-07

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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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

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

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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

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E1.12	Functional expenditure	T21, L12	£m	C
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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
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

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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
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

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	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

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
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	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	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	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
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
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	Please refer to general comments on cost capture
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 runni	T21, L26	£m	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	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

E1.39	Total operating costs	T21, L34	£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
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N	Please refer to general comments on cost capture
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Prepared by: Caroline Hay..... Date: 17/06/05.....
Checked by: Jo Dow..... Date: 17/06/05.....
Authorised by: Douglas Millican..... Date: 17/06/05.....

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

					Report Year - 1 2003-04												
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	CG	
					Area 1	Area 2	Area 3	Area 4	Area 5	Area 6	Area 7	Area 8	sub total				
Service Analysis - Waste Water Direct Costs																	
E2.0	Name																
E2.1	Employment costs	T22. L1	£m	I/C									0			0	
E2.2	Power	T22. L2	£m	I/C									0			0	
E2.3	Hired and contracted services	T22. L4	£m	I/C									0			0	
E2.4	Not In Use																
E2.5	Materials and consumables	T22. L6	£m	I/C									0			0	
E2.6	Service charges SEPA	T22. L7	£m	I/C									0			0	
E2.7	Not in use																
E2.8	Other direct costs	T22. L8	£m	I/C									0			0	
E2.9	Total direct costs	T22. L11	£m	C	0	0	0	0	0	0	0	0	0	0	0	0	
E2.10	General and support employment costs		£m	I/C									0			0	
E2.11	General and support other costs		£m	I/C									0			0	
E2.12	Functional expenditure	T22. L13	£m	C	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			0	
E2.28	Reactive and planned maintenance non-infrastructure	T22. L25	£m	I/C									0			0	
Capital Maintenance																	
E2.29	Infrastructure depreciation charge	T22. L26	£m	I/C												0	
E2.30	Non-infrastructure depreciation charge	T22. L28	£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	
Total Operating Costs																	
E2.37	Not In Use																
E2.38	Not In Use																
E2.39	Total operating costs	T22. L35	£m	C												0	

Prepared by: Date:
 Checked by: Date:
 Authorised by: Date:

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

					Report Year 2004-05													
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	Sewerage Service Total	CG
					Area 1	Area 2	Area 3	Area 4	Area 5	Area 6	Area 7	Area 8	sub total					
Service Analysis - Waste Water Direct Costs																		
E2.0	Name	-		I	NW	NE	SE	SW										
E2.1	Employment costs	T22, L1	£m	I/C	2.582	3.384	2.687	4.417					13.07	9.887	2.427		25.384	A2
E2.2	Power	T22, L2	£m	I/C	0.583	1.114	0.482	1.441					3.62	5.682	0.005		9.307	A2
E2.3	Hired and contracted services	T22, L4	£m	I/C	0.698	1.261	1.18	2.223					5.362	1.717	3.744		10.823	A2
E2.4	Not in use																	
E2.5	Materials and consumables	T22, L6	£m	I/C	0.33	0.345	0.194	0.469					1.338	2.131	0.228		3.697	A2
E2.6	Service charges SEPA	T22, L7	£m	I/C	0.147	0.166	0.12	0.532					0.965	5.43	0.003		6.398	A2
E2.7	Not in use																	
E2.8	Other direct costs	T22, L8	£m	I/C	0.156	0.252	0.157	0.393					0.958	0.405	0.056		1.419	A2
E2.9	Total direct costs	T22, L11	£m	C	4.496	6.522	4.82	9.475	0	0	0	0	25.313	25.252	6.463		57.028	A2
E2.10	General and support employment costs	-	£m	I/C	0.456	0.64	0.455	0.83					2.381	1.978	0.49		4.849	A2
E2.11	General and support other costs	-	£m	I/C	1.445	1.913	1.478	2.266					7.102	4.91	1.881		13.893	A2
E2.12	Functional expenditure	T22, L13	£m	C	6.397	9.075	6.753	12.571	0	0	0	0	34.796	32.14	8.834		75.77	A2
Operating Expenditure																		
E2.13	Customer services	T22, L14	£m	I													14.383	A2
E2.14	Scientific services	T22, L15	£m	I													2.884	A2
E2.15	Other business activities	T22, L16	£m	I													1.954	A2
E2.16	Total business activities	T22, L17	£m	C													19.221	A2
E2.17	Local authority rates	T22, L18	£m	I													8.802	A2
E2.18	Doubtful debts	T22, L19	£m	I													18.426	A2
E2.19	Exceptional items - start-up costs	-	£m	I													0	N
E2.20	Exceptional items - reorganisation costs	-	£m	I													9.292	A2
E2.21	Exceptional items - severance costs	-	£m	I													18.734	A2
E2.22	Exceptional items - other costs (specify)	-	£m	I													0	N
E2.23	Total Exceptional items	T22, L20	£m	C													28.026	A2
E2.24	Total opex less third party services	T22, L21	£m	C													150.245	A2
E2.25	Third party services - opex	T22, L22	£m	I													3.884	A2
E2.26	Total operating expenditure	T22, L23	£m	C													154.129	A2
Reactive and Planned Maintenance (included in Opex)																		
E2.27	Reactive and planned maintenance infrastructure	T22, L24	£m	I/C	1.042	3.791	3.68	5.553					14.066	0	0		14.066	D3
E2.28	Reactive and planned maintenance non-infrastructure	T22, L25	£m	I/C	1.561	0.789	1.33	1.062					4.742	8.072	0		12.814	D3
Capital Maintenance																		
E2.29	Infrastructure depreciation charge	T22, L26	£m	I/C									40.395	0	0		40.395	A2
E2.30	Non-infrastructure depreciation charge	T22, L28	£m	I/C									18.561	34.049	1.129		53.739	A2
E2.31	Amortisation of deferred credits	T22, L29	£m	I													-0.499	A2
E2.32	Amortisation of intangible assets	T22, L30	£m	I													0	N
E2.33	Business activities depreciation charge	T22, L31	£m	I													2.538	A2
E2.34	Capital maintenance less third party services	T22, L32	£m	C													96.173	A2
E2.35	Third party services - depreciation	T22, L33	£m	I													0.328	A2
E2.36	Total capital maintenance	T22, L34	£m	C													96.501	A2
Total Operating Costs																		
E2.37	Not In Use																	
E2.38	Not In Use																	
E2.39	Total operating costs	T22, L35	£m	C													250.63	A2

Prepared by: Caroline Hay..... Date: 17/06/05.....
 Checked by: Jo Dow..... Date: 17/06/05.....
 Authorised by: Douglas Millican..... Date: 17/06/05.....

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

999	
Report Year 2004-05	
Comment Necessary Y/N	Comment

Line Ref.	Description	Ofwat 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	IC
E2.2	Power	T22_L2	£m	IC
E2.3	Hired and contracted services	T22_L4	£m	IC
E2.4	Not in use			
E2.5	Materials and consumables	T22_L6	£m	IC
E2.6	Service charges SEPA	T22_L7	£m	IC
E2.7	Not in use			
E2.8	Other direct costs	T22_L8	£m	IC
E2.9	Total direct costs	T22_L11	£m	C
E2.10	General and support employment costs	-	£m	IC
E2.11	General and support other costs	-	£m	IC
E2.12	Functional expenditure	T22_L13	£m	C
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
Reactive and Planned Maintenance (included in Opex)				
E2.27	Reactive and planned maintenance infrastructure	T22_L24	£m	IC
E2.28	Reactive and planned maintenance non-infrastructure	T22_L25	£m	IC
Capital Maintenance				
E2.29	Infrastructure depreciation charge	T22_L26	£m	IC
E2.30	Non-infrastructure depreciation charge	T22_L28	£m	IC
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
Total Operating Costs				
E2.37	Not In Use			
E2.38	Not In Use			
E2.39	Total operating costs	T22_L35	£m	C

Comment Necessary Y/N	Comment	General	Benchmarking A1
N	Please refer to general comments on cost capture	A1 G	A1 G
N	Please refer to general comments on cost capture	A2 G	A2 N
N	Please refer to general comments on cost capture	A3 G	A3 N
N	Please refer to general comments on cost capture	A4 N	A4 N
N	Please refer to general comments on cost capture	AX G	AX G
N	Please refer to general comments on cost capture	B2 G	B2 N
N	Please refer to general comments on cost capture	B3 G	B3 N
N	Please refer to general comments on cost capture	B4 N	B4 N
N	Please refer to general comments on cost capture	BX G	BX N
N	Please refer to general comments on cost capture	C2 N	C2 N
N	Please refer to general comments on cost capture	C3 N	C3 N
N	Please refer to general comments on cost capture	C4 N	C4 N
N	Please refer to general comments on cost capture	C5 N	C5 N
N	Please refer to general comments on cost capture	CX N	CX N
N	Please refer to general comments on cost capture	M N	M N
N	Please refer to general comments on cost capture	N N	N N
N	Please refer to general comments on cost capture	D3 N	D3 N
N	Please refer to general comments on cost capture	D4 N	D4 N
N	Please refer to general comments on cost capture	D5 N	D5 N
N	Please refer to general comments on cost capture	D6 N	D6 N
N	Please refer to general comments on cost capture	DX N	DX N

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

Prepared by: Caroline Hay..... Date: 17/06/05
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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 2005-06				Report Year + 1 Forecast 2005-06				Report Year + 2 Budget 2006-07						
					10	20	30	50	100	110	120	150	200	210	220	250			
					Sewerage		Sewage Treatment	Sludge Treatment	Sewerage Service Total	Sewerage		Sewage Treatment	Sludge Treatment	Sewerage Service Total	Sewerage		Sewage Treatment	Sludge Treatment	Sewerage Service Total
All Areas Total				CG	All Areas Total				CG	All Areas Total				CG					
Service Analysis - Waste Water Direct Costs																			
Name																			
E2.0	Not in use																		
E2.1	Employment costs	T22, L1	£m	I/C	11.781	8.912	2.188	22.881	B3	11.781	8.912	2.188	22.881	B3	14.543	11.002	2.701	28.246	B3
E2.2	Power	T22, L2	£m	I/C	3.263	5.122	0.005	8.39	B3	3.263	5.122	0.005	8.39	B3	4.028	6.323	0.006	10.357	B3
E2.3	Hired and contracted services	T22, L4	£m	I/C	4.833	1.548	3.375	9.756	B3	4.833	1.548	3.375	9.756	B3	5.966	1.911	4.166	12.043	B3
E2.4	Not in use																		
E2.5	Materials and consumables	T22, L6	£m	I/C	1.206	1.921	0.206	3.333	B3	1.206	1.921	0.206	3.333	B3	1.489	2.371	0.254	4.114	B3
E2.6	Service charges SEPA	T22, L7	£m	I/C	0.87	4.895	0.003	5.768	B3	0.87	4.895	0.003	5.768	B3	1.074	6.043	0.004	7.121	B3
E2.7	Not in use																		
E2.8	Other direct costs	T22, L8	£m	I/C	0.864	0.365	0.05	1.279	B3	0.864	0.365	0.05	1.279	B3	1.067	0.451	0.062	1.58	B3
E2.9	Total direct costs	T22, L11	£m	C	22.817	22.763	5.827	51.407	B3	22.817	22.763	5.827	51.407	B3	28.167	28.101	7.193	63.461	B3
E2.10	General and support employment costs	-	£m	I/C	2.146	1.783	0.442	4.371	B3	2.146	1.783	0.442	4.371	B3	2.649	2.201	0.546	5.396	B3
E2.11	General and support other costs	-	£m	I/C	6.402	4.426	1.696	12.524	B3	6.402	4.426	1.696	12.524	B3	7.903	5.464	2.094	15.461	B3
E2.12	Functional expenditure	T22, L13	£m	C	31.365	28.972	7.965	68.302	B3	31.365	28.972	7.965	68.302	B3	38.719	35.766	9.833	84.318	B3
Operating Expenditure																			
E2.13	Customer services	T22, L14	£m	I				13.326	B3				13.326	B3				7.829	B3
E2.14	Scientific services	T22, L15	£m	I				2.6	B3				2.6	B3				3.21	B3
E2.15	Other business activities	T22, L16	£m	I				1.777	B3				1.777	B3				2.194	B3
E2.16	Total business activities	T22, L17	£m	C				17.703	B3				17.703	B3				13.233	B3
E2.17	Local authority rates	T22, L18	£m	I				10.393	B3				10.393	B3				8.76	B3
E2.18	Doubtful debts	T22, L19	£m	I				18.623	B3				18.623	B3				23.483	B3
E2.19	Exceptional items - start-up costs	-	£m	I				0	N				0	N				0	N
E2.20	Exceptional items - reorganisation costs	-	£m	I				1.509	B3				1.509	B3				0	N
E2.21	Exceptional items - severance costs	-	£m	I				0	N				0	N				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				1.509	B3				1.509	B3				0	N
E2.24	Total opex less third party services	T22, L21	£m	C				116.53	B3				116.53	B3				129.794	B3
E2.25	Third party services - opex	T22, L22	£m	I				5.449	B3				5.449	B3				0	N
E2.26	Total operating expenditure	T22, L23	£m	C				121.979	B3				121.979	B3				129.794	B3
Reactive and Planned Maintenance (Included in Opex)																			
E2.27	Reactive and planned maintenance infrastructure	T22, L24	£m	I/C	12.679	0	0	12.679	D4	12.679	0	0	12.679	D4	15.652	0	0	15.652	D4
E2.28	Reactive and planned maintenance non-infrastructure	T22, L25	£m	I/C	4.274	7.276	0	11.55	D4	4.274	7.276	0	11.55	D4	5.277	8.982	0	14.259	D4
Capital Maintenance																			
E2.29	Infrastructure depreciation charge	T22, L26	£m	I/C	40.421	0	0	40.421	B3	40.421	0	0	40.421	B3	29.047	0	0	29.047	B3
E2.30	Non-infrastructure depreciation charge	T22, L28	£m	I/C	18.148	33.292	1.104	52.544	B3	18.148	33.292	1.104	52.544	B3	18.404	33.761	1.12	53.285	B3
E2.31	Amortisation of deferred credits	T22, L29	£m	I				-0.499	B3				-0.499	B3				-1.24	B3
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				2.625	B3				2.625	B3				2.171	B3
E2.34	Capital maintenance less third party services	T22, L32	£m	C				95.091	B3				95.091	B3				83.263	B3
E2.35	Third party services - depreciation	T22, L33	£m	I				1.587	B3				1.587	B3				0	N
E2.36	Total capital maintenance	T22, L34	£m	C				96.678	B3				96.678	B3				83.263	B3
Total Operating Costs																			
E2.37	Not In Use																		
E2.38	Not In Use																		
E2.39	Total operating costs	T22, L35	£m	C				218.657	B3				218.657	B3				213.057	B3

Prepared by: Caroline Hay..... Date: 17/06/05.....
 Checked by: Jo Dow..... Date: 17/06/05.....
 Authorised by: Douglas Millican..... Date: 17/06/05.....

ANNUAL RETURN INFORMATION REQUIREMENT

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

50	150	250
Report Year + 1 Budget 2005-06	Report Year + 1 Forecast 2005-06	Report Year + 2 Budget 2006-07
Comment Necessary Y/N	Comment	Comment Necessary Y/N
Comment	Comment	Comment

Line Ref.	Description	Ofwat Ref	Units	Field Type
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Service Analysis - Waste Water Direct Costs

Name	Ofwat Ref	Units	Field Type
E2.0 Not in use			
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 Not in use			
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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Total Operating Costs

E2.37 Not In Use			
E2.38 Not In Use			

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

Prepared by: Caroline Hay..... Date: 17/06/05.....
 Checked by: Jo Dow..... Date: 17/06/05.....
 Authorised by: Douglas Millican..... Date: 17/06/05.....

ANNUAL RETURN INFORMATION REQUIREMENT

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

Line Ref.	Description	Ofwat Ref	Units	Field Type	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	210	220	230	240	250	Total		
					Highland CG	Highland CG	Tay CG	Aberdeen CG	Aberdeen CG	Aberdeen CG	Aberdeen CG	Moray Coast CG	Moray Coast CG	Moray Coast CG	AVSE CG	AVSE CG	AVSE CG	AVSE CG	AVSE CG	Levenmouth CG	Dalmuir CG	Daldowie CG	MSI CG	MSI CG	MSI CG	CG	CG	CG	CG	CG	CG	CG
Project Data																																
E3.0	Name			I	F1 William	Inverness	Hatton	Nigg	Persley	Peterhead	Fraserburgh	Lossiemouth	Buckle	Barff/Macduff	Seaford	Newbridge	East Calder	Blackburn	Whitburn	Levenmouth	Dalmuir	Daldowie	Meadowhead	Stevenson	Inverclyde							
E3.0a	North West		1/0	I	1 A1	1 A1	1 A1	0 A1	0 A1	0 A1	0 A1	1 A1	1 A1	1 A1	1 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	
E3.0b	North East		1/0	I	0 A1	0 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	
E3.0c	South East		1/0	I	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	
E3.0d	South West		1/0	I	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	
E3.1	Annual average resident connected population		000	LC	8 B3	52 B3	182 B3	195 B3	18 B3	21 B3	18 B3	30 B3	11 B3	9 B3	52 B3	20 B3	68 B3	13 B3	11 B3	11 B3	398 B3	0 N	188 B3	89 B3	78 B3							
E3.2	Annual average non-resident connected population		000	LC	1 B3	2 B3	3 B3	3 B3	0 B3	0 B3	0 B3	0 B3	0 B3	0 B3	0 B3	0 B3	0 B3	0 B3	0 B3	0 B3	0 B3	0 B3	0 B3	0 B3	0 B3	0 B3	0 B3	0 B3	0 B3	0 B3	0 B3	
E3.3	Trade effluent load received by works		kg/COD/day	LC	891 B4	2090 B4	5655 B4	5243 B4	872 B4	3065 B4	3234 B4	342 B4	1527 B4	419 B4	29604 B4	3251 B4	3645 B4	3329 B4	63 B4	27108 B4	11255 B4	0 N	25302 B4	8211 B4	375 B4							
E3.4	Tanker load received by works		kg/COD/day	LC	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	
E3.5	Population equivalent of total load received		000	LC	18 B3	85 B3	263 B3	284 B3	31 B3	49 B3	48 B3	37 B3	27 B3	15 B3	886 B3	46 B3	94 B3	19 B3	13 B3	342 B3	622 B3	0 N	349 B3	92 B3	97 B3							
E3.6	Project Status			I	S10	A1	S10	A1	S10	A1	S10	A1	S10	A1	S10	A1	S10	A1	S10	A1	S9	A1	S10	A1	S9	A1	S10	A1	S10	A1	S10	A1
Scope of Works																																
E3.7	Sewerage		1/0	I	1 A1	1 A1	1 A1	1 A1	0 A1	0 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	0 A1	0 A1	0 A1	0 A1	1 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	
E3.8	Sewage Treatment		1/0	I	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	
E3.9	Sludge Treatment		1/0	I	0 A1	1 A1	1 A1	1 A1	0 A1	0 A1	0 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	
E3.10	Terminal Pumping Station		1/0	I	1 A1	1 A1	1 A1	1 A1	0 A1	0 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	
E3.11	Other (state details)		1/0	I	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	
E3.12	Not In Use																															
E3.13	Not In Use																															
E3.14	Not In Use																															
E3.15	Not In Use																															
E3.16	Not In Use																															
Sewage Treatment - Effluent Consent Standard																																
E3.17	Suspended solids consent		mg/l	I	35 A1	35 A1	0 N	0 N	40 A1	0 N	0 N	0 N	0 N	0 N	150 A1	0 N	0 N	0 N	0 N	0 N	35 A1	0 N	0 N	0 N	35 A1							
E3.18	BOD consent		mg/l	I	25 A1	25 A1	25 A1	25 A1	25 A1	25 A1	25 A1	25 A1	25 A1	25 A1	25 A1	15 A1	15 A1	10 A1	10 A1	25 A1	25 A1	0 N	25 A1	25 A1	25 A1							
E3.19	COD consent		mg/l	I	0 N	0 N	125 A1	125 A1	125 A1	125 A1	125 A1	125 A1	125 A1	125 A1	125 A1	125 A1	125 A1	125 A1	125 A1	125 A1	125 A1	0 N	125 A1	125 A1	125 A1							
E3.20	Ammonia consent		mg/l	I	0 N	0 N	50 A1	0 N	35 A1	0 N	0 N	0 N	0 N	0 N	5 A1	2 A1	2 A1	2 A1	1 A1	0 N	20 A1	0 N	50 A1	50 A1	0 N							
E3.21	Phosphate consent		mg/l	I	0 N	0 N	0 N	0 N	2 A1	0 N	0 N	0 N	0 N	0 N	0.5 A1	0.5 A1	0.5 A1	0.5 A1	0.5 A1	0 N	0 N	0 N	0 N	0 N	0 N							
E3.22	Compliance with effluent consent standard		%	I	100 A1	100 A1	100 A1	100 A1	100 A1	100 A1	100 A1	100 A1	100 A1	100 A1	98 A1	100 A1	100 A1	100 A1	100 A1	100 A1	100 A1	0 N	100 A1	100 A1	100 A1							
Sewage Treatment - Flow																																
E3.23	Average daily flow in dry weather		Mld	LC	5 B3	21 B3	84 B3	69 B3	12 B3	9 B3	8 B3	10 B3	6 B3	4 B3	265 B3	12 B3	24 B3	6 B3	4 B3	57 B3	198 B3	0 N	94 B3	35 B3	39 B3							
E3.24	Ratio of daily maximum to minimum flow		nr	I	3.1 B3	2.8 B3	2.2 B3	2.7 B3	3.5 B3	2.9 B3	3.2 B3	3.5 B3	4 B4	4 B4	1.8 B3	1.8 B3	2.2 B3	1.9 B3	1.8 B3	2 B3	0 N	0 M	0 M	0 M								
Treatment Works Category																																
E3.25	Primary		1/0	I	1 A1	1 A1	1 A1	1 A1	0 A1	1 A1	1 A1	1 A1	0 A1	0 A1	0 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	0 N	0 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	
E3.26	Secondary activated sludge		1/0	I	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	0 N	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	
E3.27	Secondary biological		1/0	I	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 N	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	
E3.28	Tertiary A1		1/0	I	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 N	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	
E3.29	Tertiary A2		1/0	I	0 A1	1 A1	0 A1	0 A1	1 A1	0 A1	1 A1	0 A1	1 A1	0 A1	1 A1	0 A1	1 A1	0 A1	1 A1	0 A1	0 A1	0 N	1 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	
E3.30	Tertiary B1		1/0	I	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 N	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	
E3.31	Tertiary B2		1/0	I	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 N	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	
Miscellaneous Data																																
E3.32	Sea outfalls at works		1/0	I	1 A1	1 A1	1 A1	1 A1	0 A1	1 A1	1 A1	1 A1	1 A1	1 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	1 A1	0 A1	0 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	
E3.33	Terminal Pumping costs		1/0	I	1 A1	1 A1	1 A1	0 A1	0 A1	0 A1	1 A1	1 A1	1 A1	1 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	1 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	
E3.34	Own sludge		1/0	I	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 N	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	
E3.35	Not In Use																															
E3.36	Sludge centre		1/0	I	0 A1	1 A1	1 A1	1 A1	0 A1	0 A1	0 A1	1 A1	0 A1	0 A1	1 A1	1 A1	0 A1	0 A1	0 A1	0 A1	1 A1	0 A1	1 A1	1 A1	1 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	
E3.37	Not In Use																															
E3.38	Not In Use																															
E3.39	Not In Use																															
E3.40	Not In Use																															
E3.41	Not In Use																															
E3.42	Not In Use																															
E3.43	Not In Use																															
E3.44	Not In Use																															

ANNUAL RETURN INFORMATION REQUIREMENT

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

Table with columns: Line Description Ref, Overt Ref, Units, Field Type. Includes sections for Project Data, Scope of Works, Sewage Treatment - Effluent Control Standard, Sewage Treatment - Flow, Treatment Works Category, Miscellaneous Data, Sewerage Data, Sludge Treatment and Disposal Data, and Items with Data.

Main data table with columns for various regions: Highland, Highland, Tays, Aberdeen, Aberdeen, Aberdeen, Moray Coast, Moray Coast, Moray Coast, Moray Coast, AVSE, AVSE, AVSE, AVSE, Levenmouth, Dalmuir, Dalriada, MSI, MSI, MSI, Total. Each column contains 'Comment Necessary' and 'Comment' fields.

Summary table with columns: Comment, Commenting ID. Includes rows for A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, A15, A16, A17, A18, A19, A20, A21, A22, A23, A24, A25, A26, A27, A28, A29, A30, A31, A32, A33, A34, A35, A36, A37, A38, A39, A40, A41, A42, A43, A44, A45, A46, A47, A48, A49, A50, A51, A52, A53, A54, A55, A56, A57, A58, A59, A60, A61, A62, A63, A64, A65, A66, A67, A68, A69, A70, A71, A72, A73, A74, A75, A76, A77, A78, A79, A80, A81, A82, A83, A84, A85, A86, A87, A88, A89, A90, A91, A92, A93, A94, A95, A96, A97, A98, A99, A100.

Prepared by: John Taylor Date: 17/06/05
Checked by: Brian Strath Date: 17/06/05
Authorised by: Douglas Wilson Date: 17/06/05

ANNUAL RETURN INFORMATION REQUIREMENT

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

Line Ref.	Description	Ofwat Ref	Units	Field Type	10	20	30	40	50	60	70	80	90	100	110	120
					Highland	Highland	Tay	Aberdeen	Aberdeen	Aberdeen	Aberdeen	Moray Coast	Moray Coast	Moray Coast	AVSE	AVSE
					CG	CG	CG	CG	CG	CG	CG	CG	CG	CG	CG	CG
E3a.0 Name					Ft William	Inverness	Hatton	Nigg	Persley	Peterhead	Fraserburgh	Lossie Mouth	Buckie	Banff/Macduff	Seafeld	Newbridge
Sewerage Costs																
E3a.1	Estimated direct operating cost		£m	I/C	0.034 D6	0.095 D6	1.659 D6	0.3 D6	0 N	0 N	0.018 D6	0.398 D6	0.305 D6	0.231 D6	0.265 D6	0.002 D6
E3a.2	Rates paid by the PPP contractor		£m	I/C	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N
E3a.3	SEPA charges paid by the PPP contractor		£m	I/C	0.003 A2	0.003 A2	0.01 A2	0 BX	0 N	0 N	0 BX	0.004 A2	0.01 A2	0.01 A2	0 N	0 N
E3a.4	Total direct cost		£m	C	0.037 D6	0.098 D6	1.669 D6	0.3 D6	0 N	0 N	0.018 D6	0.402 D6	0.315 D6	0.241 D6	0.265 D6	0.002 D6
E3a.5	Scottish Water general & support expenditure		£m	I/C	0 BX	0.003 B4	0.03 B4	0.003 B4	0 N	0 N	0 BX	0.02 B4	0.004 B4	0.004 B4	0.008 B4	0 BX
E3a.6	Scottish Water SEPA charges		£m	I/C	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0.001 A2	0 N	0 N	0 N	0 N
E3a.7	Total sewerage cost		£m	C	0.037 D6	0.101 D6	1.699 D6	0.303 D6	0 N	0 N	0.018 D6	0.423 D6	0.319 D6	0.245 D6	0.273 D6	0.002 D6
Sewage Treatment Costs																
E3a.8	Estimated direct operating cost		£m	I/C	0.433 D6	0.941 D6	1.292 D6	0.687 D6	0.711 D6	0.499 D6	0.475 D6	0.319 D6	0.226 D6	0.244 D6	4.739 D6	0.725 D6
E3a.9	Rates paid by the PPP contractor		£m	I/C	0.052 B3	0.194 B3	0.169 B3	0.389 B3	0.12 B3	0.051 B3	0.059 B3	0.028 B3	0.031 B3	0.038 B3	0.661 B3	0.09 B3
E3a.10	SEPA charges paid by the PPP contractor		£m	I/C	0.04 A2	0.147 B3	0.104 B3	0.257 B3	0.01 A2	0.023 A2	0.046 B3	0.027 B3	0.027 A2	0.027 A2	0.054 A2	0.006 A2
E3a.11	Total direct cost		£m	C	0.525 D6	1.282 D6	1.565 D6	1.333 D6	0.841 D6	0.573 D6	0.58 D6	0.374 D6	0.284 D6	0.309 D6	5.454 D6	0.821 D6
E3a.12	Scottish Water general & support expenditure		£m	I/C	0.006 B4	0.041 B4	0.029 B4	0.013 B4	0.01 B4	0.007 B4	0.006 B4	0.018 B4	0.003 B4	0.005 B4	0.172 B4	0.009 B4
E3a.13	Scottish Water SEPA charges		£m	I/C	0 N	0 N	0 N	0.181 A2	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N
E3a.14	Total sewage treatment cost		£m	C	0.531 D6	1.323 D6	1.594 D6	1.527 D6	0.851 D6	0.58 D6	0.586 D6	0.392 D6	0.287 D6	0.314 D6	5.626 D6	0.83 D6
E3a.15	Estimated terminal pumping cost		£m	I/C	0 M	0 M	0 M	0 M	0 M	0 M	0 M	0 M	0 M	0 M	0 M	0 M
Sludge Treatment and Disposal Costs																
E3a.16	Estimated direct operating cost		£m	I/C	0 N	0.659 D6	1.893 D6	0.875 D6	0 N	0 N	0 N	1.179 D6	0 N	0 N	1.279 D6	0.402 D6
E3a.17	Rates paid by the PPP contractor		£m	I/C	0 N	0.096 B3	0.248 B3	0.246 B3	0 N	0 N	0 N	0.114 B3	0 N	0 N	0.165 B3	0.096 B3
E3a.18	SEPA charges paid by the PPP contractor		£m	I/C	0 N	0 BX	0 BX	0 BX	0 N	0 N	0 N	0 BX	0 N	0 N	0.003 A2	0.003 A2
E3a.19	Total direct cost		£m	C	0 N	0.755 D6	2.141 D6	1.121 D6	0 N	0 N	0 N	1.293 D6	0 N	0 N	1.447 D6	0.501 D6
E3a.20	Scottish Water general & support expenditure		£m	I/C	0 N	0.024 B4	0.039 B4	0.011 B4	0 N	0 N	0 N	0.063 B4	0 N	0 N	0.046 B4	0.006 B4
E3a.21	Scottish Water SEPA charges		£m	I/C	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N	0 N
E3a.22	Total sludge treatment & disposal cost		£m	C	0 N	0.779 D6	2.18 D6	1.132 D6	0 N	0 N	0 N	1.356 D6	0 N	0 N	1.493 D6	0.507 D6
Total Cost Analysis																
E3a.23	Total direct cost		£m	C	0.562 D6	2.135 D6	5.375 D6	2.754 D6	0.841 D6	0.573 D6	0.598 D6	2.069 D6	0.599 D6	0.55 D6	7.166 D6	1.324 D6
E3a.24	Total Scottish Water cost		£m	C	0.006 B3	0.068 B3	0.098 B3	0.208 B3	0.01 B3	0.007 B3	0.006 B3	0.102 B3	0.007 B3	0.009 B3	0.226 B3	0.015 B3
E3a.25	Total operating cost		£m	C	0.568 D6	2.203 D6	5.473 D6	2.962 D6	0.851 D6	0.58 D6	0.604 D6	2.171 D6	0.606 D6	0.559 D6	7.392 D6	1.339 D6
E3a.26	Annual charge		£m	I/C	2.876 A1	5.105 A1	19.56 A1	4.671 A1	2.273 A1	1.636 A1	1.828 A1	4.068 A1	2.939 A1	3.18 A1	14.642 B3	2.112 B3
E3a.27	Public sector capital equivalent value		£m	I	15.959 B3	51.523 B3	138.345 B3	76.279 B3	18.525 B3	15.256 B3	18.525 B3	33.871 B3	25 B3	21.774 B3	60.014 B3	8.686 B3
Contract Information																
E3a.28	Contract period		years	I	25 A1	25 A1	30 A1	30 A1	30 A1	30 A1	30 A1	30 A1	30 A1	30 A1	30 A1	30 A1
E3a.29	Contract end date		dd/mm/yy	I	##### A1	##### A1	15/12/2029 A1	04/05/2030 A1	04/05/2030 A1	04/05/2030 A1	04/05/2030 A1	25/06/2031 A1	##### A1	25/06/2031 A1	30/11/2029 A1	30/11/2029 A1

Prepared by: John Telfer..... Date: 17/06/05.....
 Checked by: Brian Strathie..... Date: 17/06/05.....
 Authorised by: Douglas Millican..... Date: 17/06/05.....

SCOTTISH WATER

ANNUAL RETURN INFORMATION REQUIREMENT

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

Line Ref.	Description	Ofwat Ref	Units	Field Type	10 Highland		20 Highland		30 Tay		40 Aberdeen		50 Aberdeen		60 Aberdeen		70 Aberdeen		80 Moray Coast		90 Moray Coast		100 Moray Coast	
					Comment Necessary Y/N	Comment	Comment Necessary Y/N	Comment	Comment Necessary Y/N	Comment	Comment Necessary Y/N	Comment	Comment Necessary Y/N	Comment	Comment Necessary Y/N	Comment	Comment Necessary Y/N	Comment	Comment Necessary Y/N	Comment	Comment Necessary Y/N	Comment	Comment Necessary Y/N	Comment
E3a.0	Name																							
Sewerage Costs																								
E3a.1	Estimated direct operating cost		£m	IC	N	actual costs not kn/N	actual costs not kn/N	actual costs not kn/N	actual costs not kn/N	actual costs not kn/N	no sewer, hence nc/N	no sewer, hence nc/N	actual costs not kn/N	actual costs not kn/N	actual costs not kn/N	actual costs not kn/N	actual costs not kn/N	actual costs not kn/N	actual costs not kn/N	actual costs not kn/N	actual costs not kn/N	actual costs not kn/N	actual costs not kn/N	
E3a.2	Rates paid by the PPP contractor		£m	IC	N	rates allocated to TN	rates allocated to TN	rates allocated to TN	rates allocated to TN	rates allocated to TN	no sewer, hence nc/N	no sewer, hence nc/N	rates allocated to TN	rates allocated to TN	rates allocated to TN	rates allocated to TN	rates allocated to TN	rates allocated to TN	rates allocated to TN	rates allocated to TN	rates allocated to TN	rates allocated to TN	rates allocated to TN	
E3a.3	SEPA charges paid by the PPP contractor		£m	IC	N	N	N	N	N	N	no sewer, hence nc/N	no sewer, hence nc/N	N	N	N	N	N	N	N	N	N	N	N	
E3a.4	Total direct cost		£m	C	N	confidence grade a/N	confidence grade a/N	confidence grade a/N	confidence grade a/N	confidence grade a/N	no sewer, hence nc/N	no sewer, hence nc/N	confidence grade a/N	confidence grade a/N	confidence grade a/N	confidence grade a/N	confidence grade a/N	confidence grade a/N	confidence grade a/N	confidence grade a/N	confidence grade a/N	confidence grade a/N	confidence grade a/N	
E3a.5	Scottish Water general & support expenditure		£m	IC	N	N	N	N	N	N	no sewer, hence nc/N	no sewer, hence nc/N	N	N	N	N	N	N	N	N	N	N	N	
E3a.6	Scottish Water SEPA charges		£m	IC	N	sepa charges paid /N	sepa charges paid /N	sepa charges paid /N	sepa charges paid /N	sepa charges paid /N	no sewer, hence nc/N	no sewer, hence nc/N	N	N	N	N	N	N	N	N	N	N	N	
E3a.7	Total sewerage cost		£m	C	N	confidence grade a/N	confidence grade a/N	confidence grade a/N	confidence grade a/N	confidence grade a/N	no sewer, hence nc/N	no sewer, hence nc/N	confidence grade a/N	confidence grade a/N	confidence grade a/N	confidence grade a/N	confidence grade a/N	confidence grade a/N	confidence grade a/N	confidence grade a/N	confidence grade a/N	confidence grade a/N	confidence grade a/N	
Sewage Treatment Costs																								
E3a.8	Estimated direct operating cost		£m	IC	N	actual costs not kn/N	actual costs not kn/N	actual costs not kn/N	actual costs not kn/N	actual costs not kn/N	actual costs not kn/N	actual costs not kn/N	actual costs not kn/N	actual costs not kn/N	actual costs not kn/N	actual costs not kn/N	actual costs not kn/N	actual costs not kn/N	actual costs not kn/N	actual costs not kn/N	actual costs not kn/N	actual costs not kn/N	actual costs not kn/N	
E3a.9	Rates paid by the PPP contractor		£m	IC	N	N	N	N	N	N	no sewer, hence nc/N	no sewer, hence nc/N	N	N	N	N	N	N	N	N	N	N	N	
E3a.10	SEPA charges paid by the PPP contractor		£m	IC	N	confidence grade a/N	confidence grade a/N	confidence grade a/N	confidence grade a/N	confidence grade a/N	confidence grade a/N	confidence grade a/N	confidence grade a/N	confidence grade a/N	confidence grade a/N	confidence grade a/N	confidence grade a/N	confidence grade a/N	confidence grade a/N	confidence grade a/N	confidence grade a/N	confidence grade a/N	confidence grade a/N	
E3a.11	Total direct cost		£m	C	N	confidence grade a/N	confidence grade a/N	confidence grade a/N	confidence grade a/N	confidence grade a/N	confidence grade a/N	confidence grade a/N	confidence grade a/N	confidence grade a/N	confidence grade a/N	confidence grade a/N	confidence grade a/N	confidence grade a/N	confidence grade a/N	confidence grade a/N	confidence grade a/N	confidence grade a/N	confidence grade a/N	
E3a.12	Scottish Water general & support expenditure		£m	IC	N	total expenditure is /N	total expenditure is /N	total expenditure is /N	total expenditure is /N	total expenditure is /N	total expenditure is /N	total expenditure is /N	total expenditure is /N	total expenditure is /N	total expenditure is /N	total expenditure is /N	total expenditure is /N	total expenditure is /N	total expenditure is /N	total expenditure is /N	total expenditure is /N	total expenditure is /N	total expenditure is /N	
E3a.13	Scottish Water SEPA charges		£m	IC	N	sepa charges paid /N	sepa charges paid /N	sepa charges paid /N	sepa charges paid /N	sepa charges paid /N	sepa charges paid /N	sepa charges paid /N	sepa charges paid /N	sepa charges paid /N	sepa charges paid /N	sepa charges paid /N	sepa charges paid /N	sepa charges paid /N	sepa charges paid /N	sepa charges paid /N	sepa charges paid /N	sepa charges paid /N	sepa charges paid /N	sepa charges paid /N
E3a.14	Total sewerage treatment cost		£m	C	N	confidence grade a/N	confidence grade a/N	confidence grade a/N	confidence grade a/N	confidence grade a/N	confidence grade a/N	confidence grade a/N	confidence grade a/N	confidence grade a/N	confidence grade a/N	confidence grade a/N	confidence grade a/N	confidence grade a/N	confidence grade a/N	confidence grade a/N	confidence grade a/N	confidence grade a/N	confidence grade a/N	
E3a.15	Estimated terminal pumping cost		£m	IC	N	cost is included in a/N	cost is included in /N	cost is included in /N	cost is included in /N	cost is included in /N	cost is included in /N	cost is included in /N	cost is included in /N	cost is included in /N	cost is included in /N	cost is included in /N	cost is included in /N	cost is included in /N	cost is included in /N	cost is included in /N	cost is included in /N	cost is included in /N	cost is included in /N	
Sludge Treatment and Disposal Costs																								
E3a.16	Estimated direct operating cost		£m	IC	N	all sludge treated a/N	actual costs not kn/N	actual costs not kn/N	actual costs not kn/N	actual costs not kn/N	all sludge treated a/N	all sludge treated a/N	all sludge treated a/N	actual costs not kn/N	actual costs not kn/N	actual costs not kn/N	actual costs not kn/N	actual costs not kn/N	actual costs not kn/N	actual costs not kn/N	actual costs not kn/N	actual costs not kn/N	actual costs not kn/N	
E3a.17	Rates paid by the PPP contractor		£m	IC	N	all sludge treated a/N	N	N	N	N	all sludge treated a/N	all sludge treated a/N	all sludge treated a/N	N	N	N	N	N	N	N	N	N	N	
E3a.18	SEPA charges paid by the PPP contractor		£m	IC	N	all sludge treated a/N	N	N	N	N	all sludge treated a/N	all sludge treated a/N	all sludge treated a/N	N	N	N	N	N	N	N	N	N	N	
E3a.19	Total direct cost		£m	C	N	all sludge treated a/N	confidence grade a/N	confidence grade a/N	confidence grade a/N	confidence grade a/N	all sludge treated a/N	all sludge treated a/N	all sludge treated a/N	confidence grade a/N	confidence grade a/N	confidence grade a/N	confidence grade a/N	confidence grade a/N	confidence grade a/N	confidence grade a/N	confidence grade a/N	confidence grade a/N	confidence grade a/N	
E3a.20	Scottish Water general & support expenditure		£m	IC	N	all sludge treated a/N	total expenditure is /N	total expenditure is /N	total expenditure is /N	total expenditure is /N	all sludge treated a/N	all sludge treated a/N	all sludge treated a/N	total expenditure is /N	total expenditure is /N	total expenditure is /N	total expenditure is /N	total expenditure is /N	total expenditure is /N	total expenditure is /N	total expenditure is /N	total expenditure is /N	total expenditure is /N	
E3a.21	Scottish Water SEPA charges		£m	IC	N	all sludge treated a/N	sepa charges paid /N	sepa charges paid /N	sepa charges paid /N	sepa charges paid /N	all sludge treated a/N	all sludge treated a/N	all sludge treated a/N	sepa charges paid /N	sepa charges paid /N	sepa charges paid /N	sepa charges paid /N	sepa charges paid /N	sepa charges paid /N	sepa charges paid /N	sepa charges paid /N	sepa charges paid /N	sepa charges paid /N	
E3a.22	Total sludge treatment & disposal cost		£m	C	N	all sludge treated a/N	confidence grade a/N	confidence grade a/N	confidence grade a/N	confidence grade a/N	all sludge treated a/N	all sludge treated a/N	all sludge treated a/N	confidence grade a/N	confidence grade a/N	confidence grade a/N	confidence grade a/N	confidence grade a/N	confidence grade a/N	confidence grade a/N	confidence grade a/N	confidence grade a/N	confidence grade a/N	
Total Cost Analysis																								
E3a.23	Total direct cost		£m	C	N	actual costs not kn/N	actual costs not kn/N	actual costs not kn/N	actual costs not kn/N	actual costs not kn/N	actual costs not kn/N	actual costs not kn/N	actual costs not kn/N	actual costs not kn/N	actual costs not kn/N	actual costs not kn/N	actual costs not kn/N	actual costs not kn/N	actual costs not kn/N	actual costs not kn/N	actual costs not kn/N	actual costs not kn/N	actual costs not kn/N	
E3a.24	Total Scottish Water cost		£m	C	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	
E3a.25	Total operating cost		£m	C	N	confidence grade a/N	confidence grade a/N	confidence grade a/N	confidence grade a/N	confidence grade a/N	confidence grade a/N	confidence grade a/N	confidence grade a/N	confidence grade a/N	confidence grade a/N	confidence grade a/N	confidence grade a/N	confidence grade a/N	confidence grade a/N	confidence grade a/N	confidence grade a/N	confidence grade a/N	confidence grade a/N	
E3a.26	Annual charge		£m	IC	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	
E3a.27	Public sector capital equivalent value		£m	I	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	
Contract Information																								
E3a.28	Contract period		years	I	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	
E3a.29	Contract end date		dd/mm/yy	I	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	

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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

Number of Own Sources						Total Sources	Own Source Outputs						Total Source Outputs
Area 1	Area 2	Area 3	Area 4	Area 5	Area 6		Area 1	Area 2	Area 3	Area 4	Area 5	Area 6	
number						number	average daily output (Ml/d)						Ml/d
NW	NE	SE	SW			NW	NE	SE	SW				
62	20	34	74			190	81.2	184.8	344.4	1062.7			
82	1	6	2			91	54.9	0.3	4.5	9.6			
102	27	43	97			269	21	218.8	7.6	324.9			
40	29	22	9			100	23.9	11.8	24.7	3			
286	77	105	182	0	0	650	181	415.7	381.2	1400.2	0	0	
0	0	0	0			0	0	0	0	0			
0	0	0	0			0	0	0	0	0			

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

Proportional Breakdown of Source output produced						Proportion of Own Source Output
Area 1	Area 2	Area 3	Area 4	Area 5	Area 6	
0.03	0.08	0.14	0.45	0.00	0.00	0.70
0.02	0.00	0.00	0.00	0.00	0.00	0.03
0.01	0.09	0.00	0.14	0.00	0.00	0.24
0.01	0.00	0.01	0.00	0.00	0.00	0.03
0.08	0.17	0.16	0.59	0.00	0.00	1.00

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			

Peak Ratio & Pumping Head						Average Peak Ratio	Average Pumping Head
Area 1	Area 2	Area 3	Area 4	Area 5	Area 6		
1.059	1.0592	1.0733	1.0593			1.029	21.7
16	26.5	11.5	23.8				

Water Treatment Works by ProcessType				
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, L16	nr, ml/d	C

Number of Own Works						Total Nr of Works	Volume of Distribution Input Produced						Total volume Dist'n input
Area 1	Area 2	Area 3	Area 4	Area 5	Area 6		Area 1	Area 2	Area 3	Area 4	Area 5	Area 6	
56	13	20	7			96	18.9	9.6	27.3	349.4			
80	2	6	5			93	10.5	0.4	63.5	16.1			
49	12	7	5			73	86.4	185.6	140.3	420.1			
41	13	14	38			106	65.1	220	150.1	614.6			
0	0	0	0			0	0	0	0	0			
226	40	47	55	0	0	368	180.9	415.6	381.2	1400.2	0	0	

E4.24	Simple Disinfection	-	nr	C
E4.25	W1	-	nr	C
E4.26	W2	-	nr	C
E4.27	W3	-	nr	C
E4.28	W4	-	nr	C
E4.29	Total	-	nr	C

Proportional Breakdown of Distribution Input						Tot. prop'n of D.I.
Area 1	Area 2	Area 3	Area 4	Area 5	Area 6	
0.01	0.00	0.01	0.15	0.00	0.00	0.17
0.00	0.00	0.03	0.01	0.00	0.00	0.04
0.04	0.08	0.06	0.18	0.00	0.00	0.35
0.03	0.09	0.06	0.26	0.00	0.00	0.44
0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.08	0.17	0.16	0.59	0.00	0.00	1.00

Water Treatment Works by Size Band				
E4.30	Size band <=1 Ml/d	-	nr	I/C
E4.31	Size band >1 - <=2.5 Ml/d	-	nr	I/C
E4.32	Size band >2.5 - <=5 Ml/d	-	nr	I/C
E4.33	Size band >5 - <=10 Ml/d	-	nr	I/C
E4.34	Size band >10 - <=25 Ml/d	-	nr	I/C
E4.35	Size band >25 - <=50 Ml/d	-	nr	I/C
E4.36	Size band >50 - <=100 Ml/d	-	nr	I/C
E4.37	Size band >100 - <=175 Ml/d	-	nr	I/C
E4.38	Size band >175 Ml/d	-	nr	I/C
E4.39	Total numbers of works	-	nr	C
E4.40	Proportion of distribution input - total	-	nr	C

Number of Own Works						Total Nr of Works	Proportional Breakdown of Distribution						Tot. prop'n of D.I.
Area 1	Area 2	Area 3	Area 4	Area 5	Area 6		Area 1	Area 2	Area 3	Area 4	Area 5	Area 6	
190	12	15	18			235	0.013	0.001	0.001	0.001			
10	9	5	2			26	0.005	0.003	0.003	0			
10	7	10	4			31	0.01	0.006	0.01	0.004			
8	1	4	7			20	0.01	0.001	0.009	0.014			
6	4	7	13			30	0.02	0.022	0.028	0.067			
2	3	4	2			11	0.019	0.041	0.052	0.026			
0	4	1	4			9	0	0.1	0.025	0.089			
0	0	1	3			4	0	0	0.032	0.136			
0	0	0	2			2	0	0	0	0.252			
226	40	47	55	0	0	368	0.077	0.174	0.16	0.589	0	0	

Bulk Imports and Exports				
E4.41	Bulk Imports from other Agencies	-	Ml/d	I/C
E4.42	Bulk Exports to other Agencies	-	Ml/d	I/C
E4.43	Internal Imports from other resource areas	-	Ml/d	I/C
E4.44	Internal Exports to other resource areas	-	Ml/d	I/C
E4.45	Net change in volume	-	Ml/d	C
E4.46	Distribution input within area	-	Ml/d	C

Treated Water Transfers						Total
Area 1	Area 2	Area 3	Area 4	Area 5	Area 6	
0	0	0	0			0
0	0	0	0			0
0	21.52	43.19	0			64.71
5	0	0	59.71			64.71
-5	21.52	43.19	-59.71	0	0	0
176	437.22	424.39	1340.5	0	0	2378.1

net internal change should be zero

Costs				
E4.47	Works size band <= 1 Ml/d	-	£000	I/C
E4.48	Works size band >1 to <= 2.5 Ml/d	-	£000	I/C
E4.49	Works size band >2.5 to <=5 Ml/d	-	£000	I/C
E4.50	Works size band >5 to <=10 Ml/d	-	£000	I/C
E4.51	Works size band >10 to <=25 Ml/d	-	£000	I/C
E4.52	Sub-total small treatment works	-	£000	C
E4.53	Works size band >25 to <=50 Ml/d	-	£000	I/C
E4.54	Works size band >50 to <=100 Ml/d	-	£000	I/C
E4.55	Works size band >100 to <=175 Ml/d	-	£000	I/C
E4.56	Works size band > 175 Ml/d	-	£000	I/C
E4.57	Sub-total large treatment works	-	£000	C
E4.58	Total numbers of works	-	£000	C

Operating cost by area						Total
Area 1	Area 2	Area 3	Area 4	Area 5	Area 6	
4936	411	212	493			6052
578	493	172	203			1446
855	730	678	428			2691
1219	222	691	1346			3478
881	1432	1718	3776			7807
8469	3288	3471	6246	0	0	21474
1175	2062	2403	873			6513
0	2649	198	2196			5043
0	0	464	3386			3850
0	0	0	2822			2822
1175	4711	3065	9277	0	0	18228
9644	7999	6536	15523	0	0	39702

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

Prepared by: Michael Breingan.....Date: 17/06/05.....
Checked by: Bill Nicholls.....Date: 17/06/05.....
Authorised by: Geoff Aitkenhead.....Date: 17/06/05.....

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

Line Ref.	Description	Ofwat Ref	Units	Field Type
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Source Types				
E4.0	Area Name	-	-	I
E4.1	Impounding reservoirs	T12, L1	nr, m ³ /d	I/C
E4.2	Lochs	-	nr, m ³ /d	I/C
E4.3	River and burn abstractions	T12, L2	nr, m ³ /d	I/C
E4.4	Boreholes	T12, L3	nr, m ³ /d	I/C
E4.5	Total	-	nr, m ³ /d	C
E4.6	Raw water exports	-	nr, m ³ /d	I/C
E4.7	Raw water imports	-	nr, m ³ /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, m ³ /d	I/C
E4.18	W1	-	nr, m ³ /d	I/C
E4.19	W2	-	nr, m ³ /d	I/C
E4.20	W3	-	nr, m ³ /d	I/C
E4.21	W4	-	nr, m ³ /d	I/C
E4.22	Total numbers of works	T12, L17	nr, m ³ /d	C
E4.23	Total distribution input	T12, L16	nr, m ³ /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: Michael Breingan.....Date: 17/06/05.....
Checked by: Bill Nicholls.....Date: 17/06/05.....
Authorised by: Geoff Aitkenhead.....Date: 17/06/05.....

220
Total Source Outputs

Comment Necessary Y/N	Comment
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Comment Necessary Y/N	Comment	General		Benchmarking A1		Benchmarking A2	
		A1	G	A1	G	A1	G
N	Consistent with Distribution Input as reported in A2: A4	A2	G	A2	N	A2	G
N	Consistent with Distribution Input as reported in A2: AX	A3	G	A3	N	A3	N
N	Consistent with Distribution Input as reported in A2: B2	A4	N	A4	N	A4	N
N	Consistent with Distribution Input as reported in A2: B3	A5	G	A5	N	A5	N
N	Consistent with Distribution Input as reported in A2: B4	B1	N	B1	N	B1	N
N	Consistent with Distribution Input as reported in A2: B5	B2	N	B2	N	B2	N
N	Consistent with Distribution Input as reported in A2: B6	B3	N	B3	N	B3	N
N	Consistent with Distribution Input as reported in A2: B7	B4	N	B4	N	B4	N
N	Consistent with Distribution Input as reported in A2: B8	B5	N	B5	N	B5	N
N	Consistent with Distribution Input as reported in A2: B9	B6	N	B6	N	B6	N
N	Consistent with Distribution Input as reported in A2: B10	B7	N	B7	N	B7	N
N	Consistent with Distribution Input as reported in A2: B11	B8	N	B8	N	B8	N
N	Consistent with Distribution Input as reported in A2: B12	B9	N	B9	N	B9	N
N	Consistent with Distribution Input as reported in A2: B13	B10	N	B10	N	B10	N
N	Consistent with Distribution Input as reported in A2: B14	B11	N	B11	N	B11	N
N	Consistent with Distribution Input as reported in A2: B15	B12	N	B12	N	B12	N
N	Consistent with Distribution Input as reported in A2: B16	B13	N	B13	N	B13	N
N	Consistent with Distribution Input as reported in A2: B17	B14	N	B14	N	B14	N
N	Consistent with Distribution Input as reported in A2: B18	B15	N	B15	N	B15	N
N	Consistent with Distribution Input as reported in A2: B19	B16	N	B16	N	B16	N
N	Consistent with Distribution Input as reported in A2: B20	B17	N	B17	N	B17	N
N	Consistent with Distribution Input as reported in A2: B21	B18	N	B18	N	B18	N
N	Consistent with Distribution Input as reported in A2: B22	B19	N	B19	N	B19	N
N	Consistent with Distribution Input as reported in A2: B23	B20	N	B20	N	B20	N
N	Consistent with Distribution Input as reported in A2: B24	B21	N	B21	N	B21	N
N	Consistent with Distribution Input as reported in A2: B25	B22	N	B22	N	B22	N
N	Consistent with Distribution Input as reported in A2: B26	B23	N	B23	N	B23	N
N	Consistent with Distribution Input as reported in A2: B27	B24	N	B24	N	B24	N
N	Consistent with Distribution Input as reported in A2: B28	B25	N	B25	N	B25	N
N	Consistent with Distribution Input as reported in A2: B29	B26	N	B26	N	B26	N
N	Consistent with Distribution Input as reported in A2: B30	B27	N	B27	N	B27	N
N	Consistent with Distribution Input as reported in A2: B31	B28	N	B28	N	B28	N
N	Consistent with Distribution Input as reported in A2: B32	B29	N	B29	N	B29	N
N	Consistent with Distribution Input as reported in A2: B33	B30	N	B30	N	B30	N
N	Consistent with Distribution Input as reported in A2: B34	B31	N	B31	N	B31	N
N	Consistent with Distribution Input as reported in A2: B35	B32	N	B32	N	B32	N
N	Consistent with Distribution Input as reported in A2: B36	B33	N	B33	N	B33	N
N	Consistent with Distribution Input as reported in A2: B37	B34	N	B34	N	B34	N
N	Consistent with Distribution Input as reported in A2: B38	B35	N	B35	N	B35	N
N	Consistent with Distribution Input as reported in A2: B39	B36	N	B36	N	B36	N
N	Consistent with Distribution Input as reported in A2: B40	B37	N	B37	N	B37	N
N	Consistent with Distribution Input as reported in A2: B41	B38	N	B38	N	B38	N
N	Consistent with Distribution Input as reported in A2: B42	B39	N	B39	N	B39	N
N	Consistent with Distribution Input as reported in A2: B43	B40	N	B40	N	B40	N
N	Consistent with Distribution Input as reported in A2: B44	B41	N	B41	N	B41	N
N	Consistent with Distribution Input as reported in A2: B45	B42	N	B42	N	B42	N
N	Consistent with Distribution Input as reported in A2: B46	B43	N	B43	N	B43	N
N	Consistent with Distribution Input as reported in A2: B47	B44	N	B44	N	B44	N
N	Consistent with Distribution Input as reported in A2: B48	B45	N	B45	N	B45	N
N	Consistent with Distribution Input as reported in A2: B49	B46	N	B46	N	B46	N
N	Consistent with Distribution Input as reported in A2: B50	B47	N	B47	N	B47	N
N	Consistent with Distribution Input as reported in A2: B51	B48	N	B48	N	B48	N
N	Consistent with Distribution Input as reported in A2: B52	B49	N	B49	N	B49	N
N	Consistent with Distribution Input as reported in A2: B53	B50	N	B50	N	B50	N
N	Consistent with Distribution Input as reported in A2: B54	B51	N	B51	N	B51	N
N	Consistent with Distribution Input as reported in A2: B55	B52	N	B52	N	B52	N
N	Consistent with Distribution Input as reported in A2: B56	B53	N	B53	N	B53	N
N	Consistent with Distribution Input as reported in A2: B57	B54	N	B54	N	B54	N
N	Consistent with Distribution Input as reported in A2: B58	B55	N	B55	N	B55	N
N	Consistent with Distribution Input as reported in A2: B59	B56	N	B56	N	B56	N
N	Consistent with Distribution Input as reported in A2: B60	B57	N	B57	N	B57	N
N	Consistent with Distribution Input as reported in A2: B61	B58	N	B58	N	B58	N
N	Consistent with Distribution Input as reported in A2: B62	B59	N	B59	N	B59	N
N	Consistent with Distribution Input as reported in A2: B63	B60	N	B60	N	B60	N
N	Consistent with Distribution Input as reported in A2: B64	B61	N	B61	N	B61	N
N	Consistent with Distribution Input as reported in A2: B65	B62	N	B62	N	B62	N
N	Consistent with Distribution Input as reported in A2: B66	B63	N	B63	N	B63	N
N	Consistent with Distribution Input as reported in A2: B67	B64	N	B64	N	B64	N
N	Consistent with Distribution Input as reported in A2: B68	B65	N	B65	N	B65	N
N	Consistent with Distribution Input as reported in A2: B69	B66	N	B66	N	B66	N
N	Consistent with Distribution Input as reported in A2: B70	B67	N	B67	N	B67	N
N	Consistent with Distribution Input as reported in A2: B71	B68	N	B68	N	B68	N
N	Consistent with Distribution Input as reported in A2: B72	B69	N	B69	N	B69	N
N	Consistent with Distribution Input as reported in A2: B73	B70	N	B70	N	B70	N
N	Consistent with Distribution Input as reported in A2: B74	B71	N	B71	N	B71	N
N	Consistent with Distribution Input as reported in A2: B75	B72	N	B72	N	B72	N
N	Consistent with Distribution Input as reported in A2: B76	B73	N	B73	N	B73	N
N	Consistent with Distribution Input as reported in A2: B77	B74	N	B74	N	B74	N
N	Consistent with Distribution Input as reported in A2: B78	B75	N	B75	N	B75	N
N	Consistent with Distribution Input as reported in A2: B79	B76	N	B76	N	B76	N
N	Consistent with Distribution Input as reported in A2: B80	B77	N	B77	N	B77	N
N	Consistent with Distribution Input as reported in A2: B81	B78	N	B78	N	B78	N
N	Consistent with Distribution Input as reported in A2: B82	B79	N	B79	N	B79	N
N	Consistent with Distribution Input as reported in A2: B83	B80	N	B80	N	B80	N
N	Consistent with Distribution Input as reported in A2: B84	B81	N	B81	N	B81	N
N	Consistent with Distribution Input as reported in A2: B85	B82	N	B82	N	B82	N
N	Consistent with Distribution Input as reported in A2: B86	B83	N	B83	N	B83	N
N	Consistent with Distribution Input as reported in A2: B87	B84	N	B84	N	B84	N
N	Consistent with Distribution Input as reported in A2: B88	B85	N	B85	N	B85	N
N	Consistent with Distribution Input as reported in A2: B89	B86	N	B86	N	B86	N
N	Consistent with Distribution Input as reported in A2: B90	B87	N	B87	N	B87	N
N	Consistent with Distribution Input as reported in A2: B91	B88	N	B88	N	B88	N
N	Consistent with Distribution Input as reported in A2: B92	B89	N	B89	N	B89	N
N	Consistent with Distribution Input as reported in A2: B93	B90	N	B90	N	B90	N
N	Consistent with Distribution Input as reported in A2: B94	B91	N	B91	N	B91	N
N	Consistent with Distribution Input as reported in A2: B95	B92	N	B92	N	B92	N
N	Consistent with Distribution Input as reported in A2: B96	B93	N	B93	N	B93	N
N	Consistent with Distribution Input as reported in A2: B97	B94	N	B94	N	B94	N
N	Consistent with Distribution Input as reported in A2: B98	B95	N	B95	N	B95	N
N	Consistent with Distribution Input as reported in A2: B99	B96	N	B96	N	B96	N
N	Consistent with Distribution Input as reported in A2: B100	B97	N	B97	N	B97	N

120
Average Peak Ratio

Comment Necessary Y/N	Comment
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N 120 Pumping head data no

170
Average Pumping Head

Comment Necessary Y/N	Comment
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N Consistent with Distribution Input as reported in A2: DX

220
Total volume Dist'n input MI/d

Comment Necessary Y/N	Comment
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N Consistent with Distribution Input as reported in A2:38
N Consistent with Distribution Input as reported in A2:38
N Consistent with Distribution Input as reported in A2:38
N Consistent with Distribution Input as reported in A2:38
N Consistent with Distribution Input as reported in A2:38
N Consistent with Distribution Input as reported in A2:38
N Consistent with Distribution Input as reported in A2:38

SCOTTISH WATER

ANNUAL RETURN INFORMATION REQUIREMENT

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

Line Ref.	Description	Ofwat Ref	Units	Field Type	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26		
Works Size																																
E5.0	Name				Inverness	Badenlang	Clatto	Oldendron	Glenfarg	Invercarnie	Lintrathen	Mannofield	Turriff	Alnwickhill	Castle Moffat	Fairliehead	Marchbank	Pateshill	Rosebery	Balmoro	Bairnsmans New	Bradford	Campbell	Carron	Carron Valley	Daer	Mingavie	Muirdykes	Overton Greenock	Turriff		
E5.1	Average daily demand	-	Mld	I	25.8	18.2	63.6	67.2	61.7	44.2	29.1	40.9	28.5	59.6	29.5	77.1	44.9	13.6	35.9	283.1	70.3	100.9	33.9	28.9	99.1	122.9	346.1	37.7	37.5	66.6		
E5.2	Peak day demand	-	Mld	I	28.4	19.4	68.5	78.0	64.4	47.0	32.0	43.7	31.5	66.6	32.1	83.2	48.3	15.0	39.8	281.2	85.5	114.3	35.2	30.2	119.0	130.8	376.3	49.2	49.0	73.1		
E5.3	Works Capacity	-	Mld	I	34.0	27.0	91.0	91.0	85.0	70.0	42.0	46.0	42.0	50.0	32.0	122.0	50.0	27.0	44.0	365.0	90.0	142.0	40.0	33.0	125.0	142.0	480.0	60.0	60.0	85.0		
E5.4	Headroom	-	Mld	C	7.6	7.6	21.5	19.5	16.6	23.0	16.2	1.3	10.5	7.8	-0.1	37.2	-3.7	12.2	1.3	83.8	5.4	27.0	8.8	3.3	6.8	11.4	114.2	10.7	21.6	12.1		
Raw Water Source																																
E5.5	Source type	-	Type	I	Lochs	Borehole & Springs	Impounding Reservoir	Impounding Reservoir	River And Burn abstractions	River And Burn abstractions	Impounding Reservoir	River And Burn abstractions	River And Burn abstractions	Impounding Reservoir	Impounding Reservoir	Impounding Reservoir	Impounding Reservoir	Impounding Reservoir	Impounding Reservoir	River And Burn abstractions	River And Burn abstractions	Impounding Reservoir	Impounding Reservoir	Impounding Reservoir	Impounding Reservoir	Impounding Reservoir	Impounding Reservoir	Impounding Reservoir	Impounding Reservoir	Impounding Reservoir	Impounding Reservoir	
E5.6	Average turbidity	-	ntu	I	0.52	1.52	1.52	2.51	2.24	1.19	2.86	1.02	3.35	1.14	1.71	1.67	2.12	1.51	5.32	0.57	7.76	0.83	1.28	1.13	0.58	1.11	0.33	3.38	1.63	1.23		
E5.7	Peak turbidity	-	ntu	I	0.95	1.57	3.66	26.6	11.1	14.56	18.3	3.25	11.3	1.71	1.71	2.51	20.1	18.3	3.1	47.1	1.6	31.4	5.1	3.8	47.2	5.2	4.9	7.5	4.9	2.22		
E5.8	Average colour	-	hazen	I	7.56	5.44	21.5	39.1	29.26	29.26	29.11	28.88	43.33	26.67	66.19	21.21	22.92	148.12	42.09	17.25	18.31	56.44	67.6	30.29	37.5	45.4	14.45	46.68	83.04	37.52		
E5.9	Peak colour	-	hazen	I	12.1	14.1	34.1	58.1	36.1	68.1	44.1	62.1	76.1	36.1	11.1	34.1	28.1	28.1	23.1	64.1	23.1	25.1	73.1	88.1	45.1	58.1	18.1	71.1	111.1	48.1		
E5.10	Average parameter 'a'	-		I	22.1	47.22	136.35	171.81	89.68	124.22	318.31	161.88	252.92	108.17	190.31	393.31	167.85	440.51	448.04	50.42	278.23	375.22	319.21	125.31	642.23	105.96	35.78	348.73	321.54	193.55		
E5.11	Peak parameter 'a'	-		I	33.1	182.1	223.1	1174.1	215.1	351.1	2099.1	690.1	450.1	910.1	614.1	910.1	540.1	652.1	2544.1	540.1	1160.1	480.1	2569.1	1990.1	371.1	1990.1	156.1	590.1	489.1	332.1		
E5.12	Average parameter 'b'	-		I	6.84	3.31	20.61	51.42	8.88	8.83	58.48	34.13	8.88	13.16	16.25	77.43	35.52	29.31	50.78	8.52	86.23	44.61	67.96	29.81	298.08	18.62	14.72	26.08	12.45	18.02		
E5.13	Peak parameter 'b'	-		I	24.3	22.8	53.7	349.2	51.3	67.3	493.8	293.7	15.1	28.1	48.8	145.3	126.4	88.2	205.2	28.1	8.5	420.2	106.6	303.1	99.8	685.8	49.3	189.8	21.7	35.5		
E5.14	Cryptosporidium risk assessment	-	High/med/low	I	low	high	med	low	low	low	high	med	high	med	low	med	low	med	low	low	low	low	med	low	low	low	low	high	low	low	low	
Compliance and Performance																																
E5.15	Coliforms - samples exceeding compliance value	-	%	I	0	0	0	0	0	1.88	0	0.81	0	5.99	0.27	0.27	0.28	0	0	0	0	0	0	0	0	0.11	0.17	0.14	0	0.28		
E5.16	Turbidity - samples exceeding threshold value	-	%	I	2.83	25.74	0	0	2.99	4.25	0	0.57	0.46	0	4.17	0	0	0	0	0.57	0	0	0	0	0	0.26	0.2	0.34	0	0		
E5.17	THM - samples exceeding threshold value	-	%	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
E5.18	Aluminium - samples exceeding threshold value	-	%	I	0	0	0	0	0	3.87	0	13.79	0	0	0	0	0	0	0	0	0	0	0	2.83	0	0	0	0	0	1.82	0	
E5.19	Iron - samples exceeding threshold value	-	%	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.33	0	0	0	0	0	0	0	
E5.20	Manganese - samples exceeding threshold value	-	%	I	0	0	0	0	0	3.85	0	0	0	0	0	0	0	0	0	0	0	0	0	11.54	0	0	0	0	0	0	0	
Processes																																
E5.21	Simple disinfection only	-	1/0	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
E5.22	Simple disinfection and filtration (W1)	-	1/0	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
E5.23	Simple stage physical or chemical treatment (W2)	-	1/0	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
E5.24	More than one stage of treatment and W4 (W3)	-	1/0	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
E5.25	Complex treatment, including Microfiltration (W4)	-	1/0	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Miscellaneous Data																																
E5.26	Intake works on site	-	1/0	I	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E5.27	Raw water pumping on site	-	1/0	I	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E5.28	Treated water pumping on site	-	1/0	I	1	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E5.29	Waterworks own sludge treatment on site	-	1/0	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E5.30	Waterworks sludge discharged off site	-	1/0	I	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Works Cost																																
E5.31	Equipment direct costs	-	£'000	I	158	170	127	161	213	110	146	272	190	69	221	170	124	186	222	290	146	373	164	92	298	268	299	218	227	172		
E5.32	Power direct costs	-	£'000	I	60	244	56	37	293	188	29	112	177	203	56	88	37	54	54	795	89	129	24	50	171	39	99	100	53	26		
E5.33	Hired and contracted services direct costs	-	£'000	I	126	17	74	34	74	56	116	103	86	34	63	38	49	38	38	193	193	224	61	64	149	61	76	76	24	24		
E5.34	Materials and consumables direct costs	-	£'000	I	113	83	163	294	163	118	97	19	160	121	48	131	136	134	136	216	134	372	191	87	342	203	121	168	145	145		
E5.35	Service charges SEPA direct costs	-	£'000	I	4	3	3	0	6	11	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E5.36	Other direct costs	-	£'000	I	1	2	3	0	0	5	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E5.37	Total direct costs	-	£'000	C	462	540	440	598	799	488	693	1308	896	314	470	348	470	470	470	1420	384	1096	460	264	660	490	526	376	376	376		
E5.38	General and support expenditure	-	£'000	I	77	94	104	143	206	135	114	168	177	173	253	100	83	80	83	370	87	134	103	67	183	152	100	118	86	86		
E5.39	Functional Expenditure	-	£'000	C	539	634	544	741	995	623	807	1366	1069	487	723	451	453	453	453	840	471	1230	563	331	843	643	484	484	484	484		
E5.40	Estimated intake and raw water pumping direct costs	-	£'000	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E5.41	Estimated treated water pumping direct costs	-	£'000	I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E5.42	Estimated waterworks sludge direct costs	-	£'000	I	0	0	29	0	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Prepared by: Michael Breingan Date: 17/06/05
Checked by: Bill Nicholls Date: 17/06/05
Authorised by: Geoff Atkinson Date: 17/06/05

ANNUAL RETURN INFORMATION REQUIREMENT

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

Line Ref.	Description	Ofwat Ref	Units	Field Type	10		20		30		40		50		60		70		80		90		100		110		120		
					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	Comment Necessary	Comment	Comment Necessary
					Y/N		Y/N		Y/N		Y/N		Y/N		Y/N		Y/N		Y/N		Y/N		Y/N		Y/N		Y/N		
Works Size																													
E5.0	Name	-		I																									
E5.1	Average day demand	-	Ml/d	I	N			N		N		N		N		N		N		N		N		N		N		1 or more meter id	
E5.2	Peak day demand	-	Ml/d	I	N			N		N		N		N		N		N		N		N		N		N		1 or more meter id	
E5.3	Works Capacity	-	Ml/d	I	N			N		N		N		N		N		N		N		N		N		N		1 or more meter id	
E5.4	Headroom	-	Ml/d	C	N			N		N		N		N		N		N		N		N		N		N		1 or more meter id	
Raw Water Source																													
E5.5	Source type	-	Type	I	N	#N/A		#N/A		#N/A		#N/A		#N/A		#N/A		#N/A		#N/A		#N/A		#N/A		#N/A		#N/A	
E5.6	Average turbidity	-	ntu	I	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			
E5.8	Average colour	-	hazen	I	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			
E5.10	Average parameter 'a'	-		I	N			N		N		N		N		N		N		N		N		N		N			
E5.11	Peak parameter 'a'	-		I	N			N		N		N		N		N		N		N		N		N		N			
E5.12	Average parameter 'b'	-		I	N			N		N		N		N		N		N		N		N		N		N			
E5.13	Peak parameter 'b'	-		I	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			
Compliance and Performance																													
E5.15	Coliform: samples exceeding compliance value	-	%	I	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			
E5.17	THM: samples exceeding threshold value	-	%	I	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			
E5.19	Iron: samples exceeding threshold value	-	%	I	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			
Processes																													
E5.21	Simple disinfection only	-	1/0	I	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			
E5.23	Single stage physical or chemical treatment (W2)	-	1/0	I	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			
E5.25	Complex treatment, including Microfiltration (W4)	-	1/0	I	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			
E5.27	Raw water pumping on site	-	1/0	I	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			
E5.29	Waterworks own sludge treatment on site	-	1/0	I	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			
Works Cost																													
E5.31	Employment direct costs	-	£'000	I	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			
E5.33	Hired and contracted services direct costs	-	£'000	I	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			
E5.35	Service charges SEPA direct costs	-	£'000	I	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			
E5.37	Total direct costs	-	£'000	C	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			
E5.39	Functional Expenditure	-	£'000	C	N			N		N		N		N		N		N		N		N		N		N			
E5.40	Estimated intake and raw water pumping direct costs	-	£'000	I	N			N		N		N		N		N		N		N		N		N		N			
E5.41	Estimated treated water pumping direct costs	-	£'000	I	N			N		N		N		N		N		N		N		N		N		N			
E5.42	Estimated waterworks sludge direct costs	-	£'000	I	N			N		N		N		N		N		N		N		N		N		N			

Prepared by: Michael Breingan..... Date: 17/06/05.....
 Checked by: Bill Nicholls..... Date: 17/06/05.....
 Authorised by: Geoff Aitkenhead..... Date: 17/06/05.....

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 2003-04						Total
					Area 1	Area 2	Area 3	Area 4	Area 5	Area 6	CG
					CG	CG	CG	CG	CG	CG	CG
Area Data					Name						
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	10	20	30	40	50	60	199
					Report Year 2004-05						Total
Area Data					Area 1	Area 2	Area 3	Area 4	Area 5	Area 6	Total
Name					CG	CG	CG	CG	CG	CG	CG
E6.0	Name	-		I							
E6.1	Annual average resident connected population	-	000	I/C	356.64 B2	1135.04 B2	1009.65 B2	2411.26 B2			4912.59 B2
E6.2	Total connected properties	-	000	I/C	195 B2	577 B2	509 B2	1188 B2			2469 B2
E6.3	Volume of water delivered to households	-	MI/d	I/C	62.09 C4	196.16 C4	174.76 C4	418.55 C4			851.56 B3
E6.4	Volume of water delivered to non-households	-	MI/d	I/C	32.54 B2	95.08 B2	87.04 B2	294.09 B2			508.75 B2
E6.5	Area	-	km 2	I/C	38868 A1	16918 A1	13205 A1	10985 A1			79976 A1
E6.6	Not in use										
E6.7	Number of supply zones	-	nr	I/C	204 A1	38 A1	55 A1	77 A1			374 A1
Water main data											
E6.8	Total length of mains	-	km	I/C	9970 A2	11710 A2	9442 A2	15665 A2			46787 A2
E6.9	Total length of unlined iron mains	-	km	I/C	1262 B3	3112 B3	4576 B3	8394 B3			17344 B3
E6.10	Total length of mains > 300mm diameter	-	km	I/C	280 A2	1387 A2	1045 A2	2500 A2			5212 A2
E6.11	Water mains bursts	-	nr	I/C	1590 A4	1379 A4	2123 A4	5010 A4			10102 A3
E6.12	Leakage level	-	MI/d	I/C	89.12 C4	175.78 C4	185.73 C4	688.67 C4			1139.3 C4
E6.13	Properties reported for low pressure	-	nr	I/C	2606 C4	3751 C4	1779 C4	3703 C4			11839 C4
Pumping Stations											
E6.14	Total number of pumping stations	-	nr	I/C	215 B2	131 B2	83 B2	138 B2			567 B2
E6.15	Total capacity of pumping stations	-	m3/d	I/C	864971 C4	610581 C4	54358 C4	1501681 C4			3031591 C4
E6.15a	Total capacity of booster pumping stations	CM3, L18	Kw	I/C	9412 B4	20872 B4	620 B4	22421 B4			53325 B4
E6.16	Average pumping head	-	nr	I	23.28 C4	57.49 C4	3.29 C4	37.76 C3			34.58 C4
Service Reservoirs											
E6.17	Total number of service reservoirs	CM3, L13	nr	I/C	621 B2	436 B2	224 B2	351 B2			1632 B2
E6.18	Total capacity of service reservoirs	CM3, L14	MI	I/C	376.34 B4	1388.44 B4	527.88 B4	1871.25 B4			4163.91 B4
Water Towers											
E6.19	Total number of water towers	CM3, L15	nr	I/C	8 B2	5 B2	0 A1	11 B2			24 B2
E6.20	Total capacity of tower towers	CM3, L16	MI	I/C	10.54 B2	0.87 B2	0 A1	25.04 B2			36.45 B2

Note: Water Distribution costs are reported on Table E1

Prepared by: Michael Breingan..... Date: 17/06/05.....
 Checked by: Bill Nicholls..... Date: 17/06/05.....
 Authorised by: Geoff Aitkenhead..... Date: 17/06/05.....

Edition 2

ANNUAL RETURN INFORMATION REQUIREMENT

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

Line Ref.	Description	Ofwat Ref	Units	Field Type
		CMR 02		

199	
Report Year 2004-05	

Comment Necessary Y/N	Comment
-----------------------	---------

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	-	Ml/d I/C
E6.4	Volume of water delivered to non-households	-	Ml/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	-	Ml/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	Ml 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	Ml I/C

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

Issues with data	Problem ?	Solution
E6.13 should equal B2.9	N	199
E6.3 should equal A2.1+A2.5	Y	199
E6.2 should equal A1.69	Y	199
E6.1 should equal A1.71	Y	199

No solution required
Please amend numbers so they reconcile
Please amend numbers so they reconcile
Please amend numbers so they reconcile

Note: Water Distribution costs are reported on Table E1

Prepared by: Michael Breingan.....	Date: 17/06/05.....
Checked by: Bill Nicholls.....	Date: 17/06/05.....
Authorised by: Geoff Aitkenhead.....	Date: 17/06/05.....

Edition 2

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	276.9	1067.4	974.7	2330.3					4649.300
E7.2	Annual average non- resident connected population	T17a, L2	000	I/C	26.9	35.4	28.6	29.6					120.5
E7.3	Volume of sewage collected (daily average)	T17a, L3	M/d	I/C	368	885	750	2098					4101
E7.4	Total connected properties	T17a, L4	nr	I/C	146396	555248	504262	1169571					2375477
E7.5	Area of Sewerage District	T17a, L5	km ²	I/C	38672	16848	13161	10927					79608
E7.6	Drained Area	T17a, L6	km ²	I/C	159	376	287	741					1563
E7.7	Annual Precipitation	T17a, L8	mm	I	2130	1376	1325	1812					1661
Sewerage Data													
E7.8	Total length of sewer	T17a, L9	km	I/C	4609	11407	10135	22137					48288
E7.9	Total length of lateral sewer	-	km	I/C	975	3698	3358	7789					15820
E7.10	Length of combined sewer	T17a, L11	km	I/C	1763	3814	3268	8001					16846
E7.11	Length of separate stormwater sewer	T17a, L12	km	I/C	742	1934	1881	3373					7930
E7.12	Length of sewer > 1000 mm diameter	T17a, L13	km	I/C	18	160	197	402					777
E7.13	Length of Critical Sewer	T17a, L14	km	I/C	1090	2513	2259	4733					10595
E7.14	Sewer Collapses	T17a, L15	nr	I/C	202	536	662	1340					2740
Pumping Stations													
E7.15	Total number of pumping stations	T17a, L16	nr	I/C	505	625	263	427					1820
E7.16	Total capacity of pumping stations (m ³ /d)	T17a, L17	m ³ /d	I/C	2594903	3369559	2400184	5553285					13917931
E7.16a	Total capacity of pumping stations (kw)	CM6, L6	Kw	I/C	13251	23351	8251	30255					75108
E7.17	Average pumping head	T17a, L18	m	I	7.2	17.9	10.3	19.4					15
E7.18	Total number of combined pumping stations	T17a, L19	nr	I/C	316	368	178	266					1128
E7.19	Total capacity of combined pumping stations	T17a, L20	m ³ /d	I/C	1908431	2332587	2136047	4612226					10989291
E7.20	Total number of stormwater pumping stations	T17a, L21	nr	I/C	21	13	0	2					36
E7.21	Total capacity of stormwater pumping stations	T17a, L22	m ³ /d	I/C	243148	239284	0	149762					632194
E7.22	Number of combined sewer overflows	T17a, L23	nr	I/C	722	1080	706	1517					4025
E7.23	Number of combined sewer overflows (screened)	T17a, L24	nr	I/C	146	263	147	248					804

Note: Sewerage costs are reported on Table E2

Prepared by: Michael Breingan..... Date: 17/06/05.....
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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	Comment Necessary Y/N	Comment	Comment Necessary Y/N	Comment	Comment Necessary Y/N	Comment	Comment Necessary Y/N	Comment	Comment Necessary Y/N	Comment	Comment Necessary Y/N	Comment																																									
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Note: Sewerage costs are reported on Table E2

Prepared by: Michael Breingan.....Date: 11/10/05
Checked by: Bill Nicholls.....Date: 11/10/05
Authorised by: Geoff Aitkenhead.....Date: 11/10/05

Edition 2

ANNUAL RETURN INFORMATION REQUIREMENT

SECTION E : OPERATING COSTS AND EFFICIENCY

Table E8: Wastewater Explanatory Factors - Sewage Treatment Works

Line Ref.	Description	Ofwat Ref	Units	Field Type	10	20	30	40	50	60	70	80	90	100	110	199							
					Treatment Category														Total				
					CG	CG	Sec Activated Sludge	CG	Sec biological	CG	TertiaryA1	CG	Tertiary A2	CG	Tertiary B1	CG	Tertiary B2	CG	Sea Preliminary	CG	Sea Screened	CG	Sea Unscreened
Numbers																							
E8.1	Size Band 0	-	nr	I/C	994	18	10	75	3	1	8	1	1	0	84	1195							
E8.2	Size Band 1	T17c, L1	nr	I/C	120	13	27	53	3	0	9	1	1	0	47	274							
E8.3	Size Band 2	T17c, L2	nr	I/C	56	11	15	39	2	2	9	2	2	1	12	151							
E8.4	Size Band 3	T17c, L3	nr	I/C	26	14	39	66	5	1	13	3	5	3	15	190							
E8.5	Size Band 4	T17c, L4	nr	I/C	3	10	50	39	5	1	7	1	9	9	3	137							
E8.6	Size Band 5	T17c, L5	nr	I/C	0	1	20	4	2	2	3	0	2	0	0	34							
E8.7	Size Band 6 (Large Works)	T17c, L6	nr	I/C	0	0	18	1	1	0	0	0	0	0	0	20							
E8.8	Total Sewage Treatment Works	T17c, L7	nr	C	1199	67	179	277	21	7	49	8	20	13	161	2001							
E8.9	Small Sewage treatment works with ammonia consent 5 - 10 mg/l	T17c, L8	nr	I/C	0	0	15	29	2	0	8	0	0	0	0	54							
E8.10	Small Sewage treatment works with ammonia consent <= 5 mg/l	T17c, L9	nr	I/C	1	0	10	11	8	3	2	2	0	0	0	37							

Line Ref.	Description	Units	Field Type	Treatment Category																Total			
				CG	CG	Sec Activated Sludge	CG	Sec biological	CG	TertiaryA1	CG	Tertiary A2	CG	Tertiary B1	CG	Tertiary B2	CG	Sea Preliminary	CG	Sea Screened	CG	Sea Unscreened	CG
Loading (average daily load)																							
E8.11	Size Band 0	kg BOD/day	I/C	1819	51	40	204	12	2	20	6	2	0	246	583								
E8.12	Size Band 1	kg BOD/day	I/C	1249	128	262	624	37	0	96	11	17	0	562	1737								
E8.13	Size Band 2	kg BOD/day	I/C	1225	319	340	885	42	43	210	49	31	21	332	2272								
E8.14	Size Band 3	kg BOD/day	I/C	1420	938	2566	4725	352	121	702	210	274	228	919	11035								
E8.15	Size Band 4	kg BOD/day	I/C	648	2502	15689	10843	1417	335	1745	164	2359	2596	836	38486								
E8.16	Size Band 5	kg BOD/day	I/C	0	854	18808	2988	1899	1400	3217	0	1858	0	0	31024								
E8.17	Size Band 6 (large works)	kg BOD/day	I/C	0	0	122400	4237	17377	0	0	0	0	0	0	144014								
E8.18	Total Load Received	kg BOD/day	C	6361	4792	160105	24506	21136	1901	5990	440	4541	2845	2895	229151								
E8.19	Small Sewage treatment works with ammonia consent 5 - 10 mg/l	kg BOD/day	I/C	0	0	5259	2678	507	0	1321	0	0	0	0	9765								
E8.20	Small Sewage treatment works with ammonia consent <= 5 mg/l	kg BOD/day	I/C	1	0	2646	2427	909	1097	127	238	0	0	0	7444								

Line Ref.	Description	Units	Field Type	Treatment Category																Total			
				CG	CG	Sec Activated Sludge	CG	Sec biological	CG	TertiaryA1	CG	Tertiary A2	CG	Tertiary B1	CG	Tertiary B2	CG	Sea Preliminary	CG	Sea Screened	CG	Sea Unscreened	CG
Compliance																							
E8.21	Size Band 0	%	I	100	100	98.3	100	0	93.8	100	0	0	0	0	0								
E8.22	Size Band 1	%	I/C	96.4	87.8	96.8	91.7	0	94.4	100	0	0	0	0									
E8.23	Size Band 2	%	I/C	100	97.5	98.4	100	93.8	95.7	100	0	0	0	0									
E8.24	Size Band 3	%	I/C	96	96.3	96.6	96.7	100	98.1	93.3	0	0	100										
E8.25	Size Band 4	%	I/C	97.5	94.9	92.7	100	100	97.9	100	70	0	0										
E8.26	Size Band 5	%	I/C	0	98.4	93.7	100	98	98.6	0	100	0	0										
E8.27	Size Band 6 (large works)	%	I/C	0	97.5	100	100	0	0	0	0	0	0										
E8.28	Average compliance by works - all sizes	%	I/C	98	95.6	96.4	98	97.2	96.5	95.7	100	70	100										
E8.29	Small Sewage treatment works with ammonia consent 5 - 10 mg/l	%	I/C	0	97	97	100	0	97	0	0	0	0										
E8.30	Small Sewage treatment works with ammonia consent <= 5 mg/l	%	I/C	0	97.6	90.2	94.8	99.4	93.5	100	0	0	0										

Line Ref.	Description	Units	Field Type	Treatment Category																Total			
				CG	CG	Sec Activated Sludge	CG	Sec biological	CG	TertiaryA1	CG	Tertiary A2	CG	Tertiary B1	CG	Tertiary B2	CG	Sea Preliminary	CG	Sea Screened	CG	Sea Unscreened	CG
Costs																							
E8.31	Direct costs for works in size band 0	£000	I/C	1079	41	151	602	51	4	57	11	0	0	41	2037								
E8.32	Direct costs for works in size band 1	£000	I/C	283	71	408	698	48	0	108	9	0	0	40	1665								
E8.33	Direct costs for works in size band 2	£000	I/C	200	62	304	538	31	44	120	22	1	0	29	1351								
E8.34	Direct costs for works in size band 3	£000	I/C	173	101	1089	1507	210	84	321	64	9	4	61	3623								
E8.35	Direct costs for works in size band 4	£000	I/C	37	287	2930	1718	331	79	492	62	72	83	29	6120								
E8.36	Direct costs for works in size band 5	£000	I/C	0	45	2478	347	280	197	327	0	18	0	0	3693								
E8.37	Direct costs for works in size band 6 (large works)	£000	I/C	0	0	5846	410	508	0	0	0	0	0	6764									
E8.38	Direct costs for all sewage treatment works	£000	C	1772	607	13207	5820	1459	408	1425	168	100	87	200	25253								
E8.39	General and support expenditure	£000	I/C	431	194	3477	1735	375	114	411	53	27	28	42	6887								
E8.40	Functional expenditure	£000	C	2203	801	16684	7555	1834	522	1836	127	115	242	32140									
E8.41	Power costs	£000	I/C	0	88	3879	734	572	101	268	24	12	1	3	5682								
E8.42	Service charges SEPA	£000	I/C	989	174	2323	1220	231	44	205	36	54	40	114	5430								

Prepared by: Michael Breingan..... Date: 17/06/05.....
 Checked by: Bill Nicholls..... Date: 17/06/05.....
 Authorised by: Geoff Aitkenhead..... Date: 17/06/05.....

SCOTTISH WATER

ANNUAL RETURN INFORMATION REQUIREMENT

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

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					Comment Necessary Y/N	Comment	Comment Necessary Y/N	Comment	Comment Necessary Y/N	Comment	Comment Necessary Y/N	Comment	Comment Necessary Y/N	Comment	Comment Necessary Y/N	Comment	Comment Necessary Y/N	Comment	Comment Necessary Y/N	Comment	Comment Necessary Y/N	Comment	Comment Necessary Y/N	Comment	Comment Necessary Y/N	Comment	Comment Necessary Y/N	Comment	Comment Necessary Y/N	Comment
Septic Tanks																														
Primary																														
Sec Activated Sludge																														
Sec biological																														
Tertiary A1																														
Tertiary A2																														
Tertiary B1																														
Tertiary B2																														
Sea Preliminary																														
Sea Screened																														
Sea Unscreened																														
Total																														
Numbers																														
E8.1	Size Band 0	-	nr	I/C	N		N		N		N		N		N		N		N		N		N		N		N			
E8.2	Size Band 1	T17c.L1	nr	I/C	N		N		N		N		N		N		N		N		N		N		N		N			
E8.3	Size Band 2	T17c.L2	nr	I/C	N		N		N		N		N		N		N		N		N		N		N		N			
E8.4	Size Band 3	T17c.L3	nr	I/C	N		N		N		N		N		N		N		N		N		N		N		N			
E8.5	Size Band 4	T17c.L4	nr	I/C	N		N		N		N		N		N		N		N		N		N		N		N			
E8.6	Size Band 5	T17c.L5	nr	I/C	N		N		N		N		N		N		N		N		N		N		N		N			
E8.7	Size Band 6 (Large Works)	T17c.L6	nr	I/C	N		N		N		N		N		N		N		N		N		N		N		N			
E8.8	Total Sewage Treatment Works	T17c.L7	nr	C	N		N		N		N		N		N		N		N		N		N		N		N			
E8.9	Small Sewage treatment works with ammonia consent 5 - 10 mg/l	T17c.L8	nr	I/C	N		N		N		N		N		N		N		N		N		N		N		N			
E8.10	Small Sewage treatment works with ammonia consent <= 5 mg/l	T17c.L9	nr	I/C	N		N		N		N		N		N		N		N		N		N		N		N			
Loading (average daily load)																														
E8.11	Size Band 0	-	kg BOD/day	I/C	N		N		N		N		N		N		N		N		N		N		N		N			
E8.12	Size Band 1	T17d.L1	kg BOD/day	I/C	N		N		N		N		N		N		N		N		N		N		N		N			
E8.13	Size Band 2	T17d.L2	kg BOD/day	I/C	N		N		N		N		N		N		N		N		N		N		N		N			
E8.14	Size Band 3	T17d.L3	kg BOD/day	I/C	N		N		N		N		N		N		N		N		N		N		N		N			
E8.15	Size Band 4	T17d.L4	kg BOD/day	I/C	N		N		N		N		N		N		N		N		N		N		N		N			
E8.16	Size Band 5	T17d.L5	kg BOD/day	I/C	N		N		N		N		N		N		N		N		N		N		N		N			
E8.17	Size Band 6 (large works)	T17d.L6	kg BOD/day	I/C	N		N		N		N		N		N		N		N		N		N		N		N			
E8.18	Total Load Received	T17d.L7	kg BOD/day	C	N		N		N		N		N		N		N		N		N		N		N		N			
E8.19	Small Sewage treatment works with ammonia consent 5 - 10 mg/l	T17d.L8	kg BOD/day	I/C	N		N		N		N		N		N		N		N		N		N		N		N			
E8.20	Small Sewage treatment works with ammonia consent <= 5 mg/l	T17d.L9	kg BOD/day	I/C	N		N		N		N		N		N		N		N		N		N		N		N			
Compliance																														
E8.21	Size Band 0	-	%	I	#N/A		N		N		N		N		N		N		N		N		N		N		N			
E8.22	Size Band 1	T17e.L1	%	I/C	#N/A		N		N		N		N		N		N		N		N		N		N		N			
E8.23	Size Band 2	T17e.L2	%	I/C	#N/A		N		N		N		N		N		N		N		N		N		N		N			
E8.24	Size Band 3	T17e.L3	%	I/C	#N/A		N		N		N		N		N		N		N		N		N		N		N			
E8.25	Size Band 4	T17e.L4	%	I/C	#N/A		N		N		N		N		N		N		N		N		N		N		N			
E8.26	Size Band 5	T17e.L5	%	I/C	#N/A		N		N		N		N		N		N		N		N		N		N		N			
E8.27	Size Band 6 (large works)	T17e.L6	%	I/C	#N/A		N		N		N		N		N		N		N		N		N		N		N			
E8.28	Average compliance by works - all sizes	T17e.L7	%	I/C	#N/A		N		N		N		N		N		N		N		N		N		N		N			
E8.29	Small Sewage treatment works with ammonia consent 5 - 10 mg/l	T17e.L8	%	I/C	#N/A		N		N		N		N		N		N		N		N		N		N		N			
E8.30	Small Sewage treatment works with ammonia consent <= 5 mg/l	T17e.L9	%	I/C	#N/A		N		N		N		N		N		N		N		N		N		N		N			
Costs																														
E8.31	Direct costs for works in size band 0	-	£000	I/C	N		N		N		N		N		N		N		N		N		N		N		N			
E8.32	Direct costs for works in size band 1	-	£000	I/C	N		N		N		N		N		N		N		N		N		N		N		N			
E8.33	Direct costs for works in size band 2	-	£000	I/C	N		N		N		N		N		N		N		N		N		N		N		N			
E8.34	Direct costs for works in size band 3	-	£000	I/C	N		N		N		N		N		N		N		N		N		N		N		N			
E8.35	Direct costs for works in size band 4	-	£000	I/C	N		N		N		N		N		N		N		N		N		N		N		N			
E8.36	Direct costs for works in size band 5	-	£000	I/C	N		N		N		N		N		N		N		N		N		N		N		N			
E8.37	Direct costs for works in size band 6 (large works)	-	£000	I/C	N		N		N		N		N		N		N		N		N		N		N		N			
E8.38	Direct costs for all sewage treatment works	-	£000	C	N		N		N		N		N		N		N		N		N		N		N		N			
E8.39	General and support expenditure	-	£000	I/C	N		N		N		N		N		N		N		N		N		N		N		N			
E8.40	Functional expenditure	-	£000	C	N		N		N		N		N		N		N		N		N		N		N		N			
E8.41	Power costs	-	£000	I/C	N		N		N		N		N		N		N		N		N		N		N		N			
E8.42	Service charges SEPA	-	£000	I/C	N		N		N		N		N		N		N		N		N		N		N		N			

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

Issues with data	Problem ?	Solution
E8.18 should equal A4.34*(1000/365)	235512 235513	Please amend numbers if they do not reconcile

Prepared by: Michael Breingan..... Date: 11/10/05
Checked by: Bill Nicholls..... Date: 11/10/05
Authorised by: Geoff Aitkenhead..... Date: 11/10/05

ANNUAL RETURN INFORMATION REQUIREMENT

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

Line Ref.	Description	Ofwat Ref	Units	Field Type	10	20	30	40	50	60	70	80	90	100	110	120	130	
					1	2	3	4	5	6	7	8	9	10	11	12	13	
Works Size					CG	CG	CG	CG	CG	CG	CG	CG	CG	CG	CG	CG	CG	CG
Name					Allers	Alloa	Ardoch	Carbarns	Dalderse	Daldowie	Dalmarnock	Dunfermline	Dunnswood	Erskine	Hamilton	Ironmill Bay	Kinneil Kerse	
E9.0	Name	-		I														
E9.1	Annual average resident connected population	T17b, L2	000	I	28.8	31.5	46.7	39.8	66.6	190.9	131.1	25.8	28.6	66.1	50.1	51.6	33.3	
E9.2	Annual average non-resident connected population	T17b, L3	000	I	0	0.4	0.6	0.1	0.6	0.8	0.7	0.2	0.2	0.3	0.3	0.8	0.1	
E9.3	Trade effluent load received by works	T17b, L4	kg/COD/day	I	2970	726	203	612	1695	6744	21521	482	183	1026	566	0	1742	
E9.4	Tanker load received by works	T17b, L5	kg/COD/day	I	0	2	675	0	117	877	0	0	0	0	0	0	0	
E9.5	Population equivalent of total load received	T17b, L6	000	I	50	40	61	49	93	290	360	41	35	77	65	60	51	
Treatability																		
E9.6	Biological Oxygen Demand (BOD5) of influent	T17b, L7	mg/l	I	138	119	4	58	130	80	96	107	176	0	99	152	109	
E9.7	Chemical Oxygen Demand (COD) of influent	T17b, L8	mg/l	I	332	379	32	151	466	211	259	308	442	0	224	414	302	
E9.8	Total Organic Carbon (TOC) of influent	T17b, L9	mg/l	I	0	0	0	0	0	0	0	0	0	0	0	0	0	
E9.9	Suspended solids (SS) of influent	T17b, L10	mg/l	I	0	0	0	0	0	0	0	139	0	0	0	206	197	
E9.10	Ammoniacal Nitrogen (NH3) of influent	T17b, L11	mg/l	I	0	0	0	0	0	0	0	17.7	0	0	0	24.1	19	
Compliance																		
E9.11	Suspended solids consent	T17b, L12	mg/l	I	30	0	40	30	0	30	30	0	15	30	35	0	0	
E9.12	BOD consent	T17b, L13	mg/l	I	20	25	25	15	20	15	25	25	10	20	25	25	25	
E9.13	COD consent	T17b, L14	mg/l	I	125	125	125	125	125	125	125	125	125	125	125	125	125	
E9.14	Ammonia consent	T17b, L15	mg/l	I	0	30	0	10	25	5	4	0	5	0	15	30	15	
E9.15	Phosphate consent	T17b, L16	mg/l	I	0	0	0	0	0	0	0	0	0	0	0	0	0	
E9.16	Compliance with effluent consent standard	T17b, L17	%	I	100	96.3	100	100	89.6	100	100	95.7	100	100	90.5	100	100	
Flow																		
E9.17	Average daily flow in dry weather	T17b, L18	Ml/d	I	5	18	33	21	33	0	89	27	10	41	25	11	16	
E9.18	Ratio of daily maximum to to minimum flow	T17b, L19	nr	I	2.5	3	3.2	1.5	8.1	0	1.25	2.6	1.4	0	2	2.6	3.3	
Treatment Works Category																		
E9.19	Primary	T17b, L20	1/0	I	1	1	1	1	1	1	1	1	1	1	1	1	0	
E9.20	Secondary activated sludge	T17b, L21	1/0	I	1	1	1	1	1	1	1	1	1	1	1	1	1	
E9.21	Secondary biological	T17b, L22	1/0	I	0	0	0	0	0	0	0	0	0	0	0	0	0	
E9.22	Tertiary A1	T17b, L23	1/0	I	0	0	0	0	0	0	0	0	0	0	0	0	0	
E9.23	Tertiary A2	T17b, L24	1/0	I	0	0	0	0	0	0	0	0	0	0	0	0	0	
E9.24	Tertiary B1	T17b, L25	1/0	I	0	0	0	0	0	0	0	0	0	0	0	0	0	
E9.25	Tertiary B2	T17b, L26	1/0	I	0	0	0	0	0	0	0	0	0	0	0	0	0	
Miscellaneous Data																		
E9.26	Distance to next works	T17b, L27	km	I	4	5	2	2	5	3	4	1	5	2	2	2	3	
E9.27	Sea outfalls at works	T17b, L28	1/0	I	0	0	1	0	0	0	0	1	0	0	0	0	1	
E9.28	Terminal Pumping costs	T17b, L29	1/0	I	0	0	1	0	0	0	1	0	0	0	0	0	0	
E9.29	Own sludge	T17b, L30	1/0	I	0	0	0	0	0	0	0	0	0	0	0	0	0	
E9.30	Own sludge costs	T17b, L31	1/0	I	0	0	0	0	0	0	0	0	0	0	0	0	0	
E9.31	Sludge centre	T17b, L32	1/0	I	0	0	0	0	1	0	0	1	0	0	0	0	1	
E9.32	Sludge centre costs	T17b, L33	1/0	I	0	0	0	0	0	0	0	0	0	0	0	0	0	
Works Cost																		
E9.33	Employment costs	-	£'000	I	75	50	79	61	56	75	193	54	81	148	101	40	37	
E9.34	Power costs	T17b, L35	£'000	I	35	113	69	95	87	306	377	80	64	59	65	27	86	
E9.35	Hired and contracted services	-	£'000	I	5	17	5	1	30	10	16	10	11	5	22	0	11	
E9.36	Materials and consumables	-	£'000	I	4	11	30	27	45	22	27	55	19	0	40	8	27	
E9.37	Service charges SEPA	-	£'000	I	36	32	29	40	146	92	79	16	0	50	22	16	158	
E9.38	Other direct costs	-	£'000	I	0	0	4	0	11	2	1	103	1	1	3	0	0	
E9.39	Total direct costs	T17b, L34	£'000	C	155	223	216	224	375	507	693	318	175	263	253	91	319	
E9.40	General and support expenditure	T17b, L37	£'000	I	36	51	48	52	90	118	161	68	39	60	57	31	105	
E9.41	Functional Expenditure	T17b, L38	£'000	C	191	274	264	276	465	625	854	386	214	323	310	122	424	
E9.42	Estimated terminal pumping station costs	T17b, L39	£'000	I	0	0	7	0	0	0	60	0	0	0	0	0	0	
E9.43	Estimated sludge costs	T17b, L40	£'000	I	0	0	0	0	0	0	0	0	0	0	0	0	0	

Prepared by: Michael Breingan.....Date: 11/10/05
 Checked by: Bill Nicholls.....Date: 11/10/05
 Authorised by: Geoff Aitkenhead.....Date: 11/10/05

	140	150	160	170	180	190	200
CG	14	15	16	17	18	19	20
	Kirkcaldy	Laighpark (Paisley)	Perth	Philipshill	Sheildhall	Stirling	Troqueer
B3	48.7 B3	101.5 B3	48 B3	43.1 B3	335.2 B3	44.2 B3	25.2 B3
B3	0.7 B3	0.5 B3	1.3 B3	0.4 B3	1.3 B3	1 B3	1 B3
B4	1907 B4	11954 B4	1049 B4	2070 B4	21375 B4	887 B4	317 B4
B4	0 B4	0 B4	18918 B4	0 B4	6400 B4	118 B4	12499 B4
B3	71 B3	198 B3	92 B3	84 B3	574 B3	60 B3	50 B3
A2	131 A2	108 A2	214 A2	137 A2	91 A2	167 A2	71 A2
A2	358 A2	294 A2	792 A2	304 A2	227 A2	424 A2	213 A2
N	0 N	0 N	0 N	0 N	0 N	0 N	0 N
A2	157 A2	0 N	0 N	0 N	0 N	0 N	73 A2
A2	0 N	0 N	0 N	0 N	0 N	0 N	20 A2
N	0 N	30 A1	0 N	15 A1	30 A1	0 N	30 A1
A1	25 A1	15 A1	25 A1	10 A1	20 A1	25 A1	20 A1
A1	125 A1	125 A1	125 A1	125 A1	125 A1	125 A1	125 A1
A1	0 N	20 A1	30 A1	30 A1	20 A1	0 N	0 N
N	0 N	0 N	0 N	0 N	0 N	0 N	0 N
A1	100 A1	97 A1	100 A1	88.9 A1	97.3 A1	100 A1	100 A1
B3	18 B3	0 N	21 B3	24 B3	0 N	22 B3	7.3 B3
B3	2.9 B3	0 N	2.4 B3	1.5 B3	0 N	5.8 B3	2.4 B3
A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1
A1	0 A1	1 A1	1 A1	1 A1	1 A1	1 A1	1 A1
A1	1 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1
A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1
A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1
A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1	0 A1
B2	5 B2	2 B2	4 B2	4 B2	5 B2	5 B2	3 B2
A1	1 A1	0 A1	0 A1	0 A1	0 A1	0 A1	1 A1
A1	1 A1	0 A1	1 A1	0 A1	1 A1	0 A1	0 A1
A1	1 A1	0 A1	0 A1	0 A1	0 A1	1 A1	0 A1
N	0 N	0 N	0 N	0 N	0 N	0 N	0 N
A1	0 A1	0 A1	1 A1	0 A1	0 A1	0 A1	1 A1
N	0 N	0 N	0 N	0 N	0 N	0 N	0 N
B2	98 B2	106 B2	42 B2	75 B2	138 B2	84 B2	35 B2
B2	127 B2	204 B2	61 B2	86 B2	492 B2	150 B2	73 B2
B2	30 B2	11 B2	2 B2	5 B2	52 B2	66 B2	34 B2
B2	105 B2	33 B2	33 B2	17 B2	30 B2	68 B2	23 B2
B2	33 B2	294 B2	12 B2	35 B2	216 B2	32 B2	22 B2
BX	16 B2	0 BX	0 BX	0 BX	4 B2	5 B2	3 B2
B2	409 B2	648 B2	150 B2	218 B2	932 B2	405 B2	190 B2
B2	127 B2	154 B2	49 B2	53 B2	215 B2	97 B2	62 B2
B2	536 B2	802 B2	199 B2	271 B2	1147 B2	502 B2	252 B2
N	0 N	36 B3	23 B3	0 N	36 B3	0 N	0 N
N	0 N	0 N	0 N	0 N	0 N	0 N	0 N

ANNUAL RETURN INFORMATION REQUIREMENT

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

Line Ref.	Description	Ofwat Ref	Units	Field 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
Works Size																								
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	The loads are broadly		The loads are broadly		The loads are broadly		The loads are broadly		The loads are broadly		The loads are broadly		The loads are broadly		The loads are broadly		The loads are broadly		The loads are broadly
E9.4	Tanker load received by works	T17b, L5	kg/COD/day	I	N	Tanker loads that are		Tanker loads that are		Tanker loads that are		Tanker loads that are		Tanker loads that are		Tanker loads that are		Tanker loads that are		Tanker loads that are		Tanker loads that are		Tanker loads that are
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	Scottish Water does not		Scottish Water does not		Scottish Water does not		Scottish Water does not		Scottish Water does not		Scottish Water does not		Scottish Water does not		Scottish Water does not		Scottish Water does not		Scottish Water does not
E9.9	Suspended solids (SS) of influent	T17b, L10	mg/l	I	N	Data not recorded at		No suspended solids		Data not recorded at		Data not recorded at		Data not recorded at		Data not recorded at		Data not recorded at		Data not recorded at		Data not recorded at		Data not recorded at
E9.10	Ammoniacal Nitrogen (NH3) of influent	T17b, L11	mg/l	I	N	No ammonia consent		No ammonia consent		No ammonia consent		No ammonia consent		No ammonia consent		No ammonia consent		No ammonia consent		No ammonia consent		No ammonia consent		No ammonia consent
Compliance																								
E9.11	Suspended solids consent	T17b, L12	mg/l	I	N			This parameter is not																
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	This parameter is not				This parameter is not														
E9.15	Phosphate consent	T17b, L16	mg/l	I	N	This parameter is not		This parameter is not		This parameter is not		This parameter is not		This parameter is not		This parameter is not		This parameter is not		This parameter is not		This parameter is not		This parameter is not
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	Sludge costs associate		Sludge costs associa		Sludge costs assoc		Sludge costs associa		Sludge costs assoc		Sludge costs assoc		Sludge costs assoc		Sludge costs assoc		Sludge costs assoc		Sludge costs assoc
E9.31	Sludge centre	T17b, L32	1/0	I	N																			
E9.32	Sludge centre costs	T17b, L33	1/0	I	N	Sludge costs associate		Sludge costs associa		Sludge costs assoc		Sludge costs associa		Sludge costs assoc		Sludge costs assoc		Sludge costs assoc		Sludge costs assoc		Sludge costs assoc		Sludge costs assoc
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	Please refer to general		Please refer to gener		Please refer to geni		Please refer to gener		Please refer to gen		Please refer to gen		Please refer to gen		Please refer to gen		Please refer to gen		Please refer to gen
E9.43	Estimated sludge costs	T17b, L40	£'000	I	N	Please refer to general		Please refer to gener		Please refer to geni		Please refer to gener		Please refer to gen		Please refer to gen		Please refer to gen		Please refer to gen		Please refer to gen		Please refer to gen

Prepared by: Michael Breingan..... Date: 17/06/05.....
 Checked by: Bill Nicholls..... Date: 17/06/05.....
 Authorised by: Geoff Aitkenhead..... Date: 17/06/05.....

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	Disposal category										199														
					10		11		12		20		30		31		32		40		50		Total						
					Farmland Untreated	CG	Farmland Conventional	CG	Farmland Advanced	CG	Landfill	CG	Incineration	CG	Composted	CG	Land Reclamation	CG	Not in use	CG	Other	CG		CG					
Sludge volumes																													
E10.1	Resident population served	T17g, L1	0	I	0	B3	356	B3	218	B3	41	B3	0	B3	0	B3	562	B3			57	B3	1234	B3					
E10.2	Amount of sewage sludge	T17g, L2	tds	I	0	B3	9.3	B3	0.8	B3	0.7	B3	0	B3	0	B3	17.2	B3			1.2	B3	29.2	B3					
Sludge Treatment and Disposal cost:																													
E10.3	Employment costs	T17g, L3	£000	I	0	N	817.8	C4	161.2	C4	64.4	C4	187.3	C4	0	N	1154	C4			42.6	C4	2427.3	C4					
E10.4	Power costs	T17g, L6	£000	I	0	N	1.6	C4	0.3	C4	0.1	C4	0.4	C4	0	N	2.2	C4			0.1	C4	4.7	C4					
E10.5	Hired and contracted services	-	£000	I	0	N	1261.5	C4	248.7	C4	99.4	C4	289	C4	0	N	1780.2	C4			65.7	C4	3744.5	C4					
E10.6	Materials and consumables	-	£000	I	0	N	77	C4	15.2	C4	6.1	C4	17.6	C4	0	N	108.6	C4			4	C4	228.5	C4					
E10.7	Service charges SEPA	-	£000	I	0	N	1.1	C4	0.2	C4	0.1	C4	0.2	C4	0	N	1.5	C4			0.1	C4	3.2	C4					
E10.8	Other direct costs	-	£000	I	0	N	18.8	C4	3.7	C4	1.5	C4	4.3	C4	0	N	26.5	C4			1	C4	55.8	C4					
E10.9	Total direct costs	T17g, L5	£000	C	0	N	2177.8	C4	429.3	C4	171.6	C4	498.8	C4	0	N	3073	C4			113.5	C4	6464	C4					
E10.10	General and support expenditure	T17g, L8	£000	I	0	N	799.1	C4	157.5	C4	63	C4	183.1	C4	0	N	1125.6	C4			41.6	C4	2369.9	C4					
E10.11	Functional Expenditure	T17g, L9	£000	C	0	N	2976.9	C4	586.8	C4	234.6	C4	681.9	C4	0	N	4198.6	C4			155.1	C4	8833.9	C4					
Sludge Treatment Type					No Sludge		Own Sludge		Sludge Centre																				
E10.12	In treatment works size band 0	-	nr	I	1195	A2			0	A1		0	A1																
E10.13	In treatment works size band 1	-	nr	I	274	A2			0	A1		0	A1																
E10.14	In treatment works size band 2	-	nr	I	151	A2			0	A1		0	A1																
E10.15	In treatment works size band 3	-	nr	I	189	A1			0	A1		1	A1																
E10.16	In treatment works size band 4	-	nr	I	131	A1			2	A1		4	A1																
E10.17	In treatment works size band 5	-	nr	I	24	A1			2	A1		8	A1																
E10.18	In treatment works size band 6	-	nr	I	13	A1			2	A1		5	A1																
E10.19	Not In Use																												

Prepared by: Michael Breingan..... Date: 15/07/05
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 Authorised by: Geoff Aitkenhead..... Date: 15/07/05.....

SECTION E : OPERATING COSTS AND EFFICIENCY

Table E10: Wastewater Explanatory Factors - Sludge Treatment and Disposal

Line Ref.	Description	Owat Ref	Units	Field Type
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10		11		12		20		30		31		32		40		50		199	
Farmland Untreated		Farmland Conventional		Farmland Advanced		Landfill		Incineration		Composted		Land Reclamation		Not in use		Other		Total	
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
Y/N		Y/N		Y/N		Y/N		Y/N		Y/N		Y/N		Y/N		Y/N		Y/N	

Sludge volumes				
E10.1	Resident population served	T17g, L1	0	I
E10.2	Amount of sewage sludge	T17g, L2	tds	I

Sludge Treatment and Disposal cost				
E10.3	Employment costs	T17g, L3	£000	I
E10.4	Power costs	T17g, L6	£000	I
E10.5	Hired and contracted services	-	£000	I
E10.6	Materials and consumables	-	£000	I
E10.7	Service charges, SEPA	-	£000	I
E10.8	Other direct costs	-	£000	I
E10.9	Total direct costs	T17g, L5	£000	C

E10.10	General and support expenditure	T17g, L8	£000	I
E10.11	Functional Expenditure	T17g, L9	£000	C

Sludge Treatment Type				
E10.12	In treatment works size band 0	-	nr	I
E10.13	In treatment works size band 1	-	nr	I
E10.14	In treatment works size band 2	-	nr	I
E10.15	In treatment works size band 3	-	nr	I
E10.16	In treatment works size band 4	-	nr	I
E10.17	In treatment works size band 5	-	nr	I
E10.18	In treatment works size band 6	-	nr	I

E10.19	Not In Use			
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Issues with data		Problem ?	Solution
E10.11 should equal E2.12	Y	199	Please amend numbers so they reconcile
E10.10 should equal E2.10 + E2.11	Y	199	Please amend numbers so they reconcile
E10.9 should equal E2.9	Y	199	Please amend numbers so they reconcile
E10.4 should equal E2.2	Y	199	Please amend numbers so they reconcile

Prepared by: Michael Breingan..... Date: 17/06/05.....
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Edition 3

General
A1 G
A2 G
A3 G
A4 N
A5 G
A6 N
A7 G
A8 N
A9 N
A10 N
A11 N
A12 N
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A14 N
A15 N
A16 N
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A98 N
A99 N
A100 N

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	1010	B2	821	B2
E11.2	Indirect operations (General and support)	-	nr	I	103	B2	102	B2
E11.3	Other (incl hired and contracted)	-	nr	I	327	B2	242	B2
E11.4	Total employee numbers	-	nr	C	1440	B2	1165	B2
Management and General Assets								
E11.5	Number of Offices	-	nr	I	11	A1	11	A1
E11.6	Area of Offices	-	m ²	I	15195	B2	13474	B2
E11.7	Number of Laboratories	-	nr	I	3	B3	2	B3
E11.8	Area of Laboratories	-	m ²	I	280	B3	3930	B3
E11.9	Number of Depots	-	nr	I	71	A1	71	A1
E11.10	Area of Depots	-	m ²	I	55531	C3	49244	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	3	A1	3	A1
E11.14	Area of Control Centres	-	m ²	I	1514	B2	1342	B2
E11.15	Vehicles & Plant	-	£m	I	21.1	C3	17.09	C3
E11.16	% Coverage of Telemetry Systems	-	%	I	29.2	B2	44.2	B2
E11.17	Number of Telemetry Outstations	-	nr	I	1652	B2	1509	B2
E11.18	Information Systems: Personal Computers	-	nr	I	2054	C3	1662	C3
E11.19	Information Systems: Workstations	-	nr	I	260	C3	211	C3
E11.20	Information Systems: Mainframes	-	nr	I	7	B2	7	B2

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Edition 2

