

ANNUAL RETURN INFORMATION REQUIREMENTS

SECTION A : BASE INFORMATION
Table A1: Connected and billed properties

Line Ref.	Description	Ofwat Reference R 07	WICS Reference AR 06	Units	Field Type	10		20	
						Report Year 2011-12	CG	Report Year + 1 Forecast 2012-13	CG
Billed Properties - Water									
A1.1	Unmeasured household billed properties - potable water (including exempt)	T7, L11	A1.1 + A1.10a	Nr	I	2382151	A2	2394340	A3
A1.2	Measured household billed properties - potable water	T7, L12 + L13	A1.12	Nr	I	510	A2	481	A3
A1.3	Unmeasured non-household billed properties - potable water (including exempt)	T7, L16	A1.66	Nr	I	20216	B4	20539	B4
A1.4	Measured non-household billed properties - potable water	T7, L17	A1.22	Nr	I	106241	B4	107938	B4
A1.5	Total number of billed properties - potable water	T7, L14 + L18	-	Nr	C	2509118	B4	2523298	B4
Connected Properties - Water									
A1.6	Unmeasured household connected properties	-	A1.1 + A1.10a + A1.11	Nr	I	2428538	A2	2440727	A3
A1.7	Measured household connected properties	-	A1.12 + A1.13	Nr	I	510	A2	481	A3
A1.8	Unmeasured non-household connected properties	-	A1.66 + A1.67	Nr	I	32488	B4	33007	B4
A1.9	Measured non-household connected properties	-	A1.22	Nr	I	119972	B4	121889	B4
A1.10	Total number of connected properties	-	A1.69	Nr	C	2581508	B4	2596104	B4
A1.11	Number of properties connected during the report year	T7, L1	A1.70	Nr	I	15177	A2	16000	A3
Billed Properties - Foul Sewerage									
A1.12	Unmeasured household billed properties (including exempt)	T13, L1	A3.1 + A3.12b	Nr	I	2288857	A2	2300444	A3
A1.13	Measured household billed properties	T13, L2	A3.14	Nr	I	136	A2	123	A3
A1.14	Unmeasured non-household billed properties (including exempt)	T13, L4	A3.73	Nr	I	18766	B4	19066	B4
A1.15	Measured non-household billed properties	T13, L5	A3.26	Nr	I	83701	B4	85038	B4
A1.16	Total number of billed properties	T13, L3 + L7	-	Nr	C	2391460	B4	2404671	B4
Connected Properties - Foul Sewerage									
A1.17	Unmeasured household connected properties	-	A3.1 + A3.12b + A3.13	Nr	I	2333535	A2	2345122	A3
A1.18	Measured household connected properties	-	A3.26 + A3.30	Nr	I	136	A2	123	A3
A1.19	Unmeasured non-household connected properties	-	A3.73 + A3.76	Nr	I	29978	B4	30457	B4
A1.20	Measured non-household connected properties	-	A3.14 + A3.17	Nr	I	96100	B4	97635	B4
A1.21	Total number of connected properties	-	-	Nr	C	2459749	B4	2473337	B4
A1.22	Number of properties connected during the report year	-	-	Nr	I	13813	A2	14562	A3
Billed Properties - Surface Drainage									
A1.23	Unmeasured household billed properties (including exempt) not billed for property drainage	-	A3.12a	Nr	I	0	A2	0	A3
A1.24	Measured household billed properties not billed for property drainage	-	A3.16	Nr	I	18	A2	17	A3
A1.25	Unmeasured non-household billed properties not billed for property drainage	-	A3.75a	Nr	I	574	B4	583	B4
A1.26	Measured non-household billed properties not billed for property drainage	-	A3.29a	Nr	I	970	B4	985	B4
A1.27	Household properties billed for surface drainage only	-	A3.11 + A3.15	Nr	I	0	A2	0	A3
A1.28	Non-household properties billed for surface drainage only	-	A3.28 + A3.74	Nr	I	9761	B4	9917	B4
A1.29	Total number of billed properties	-	-	Nr	C	2467948	B4	2481669	B4
Connected Properties - Surface Drainage									
A1.30	Unmeasured household connected properties	-	-	Nr	I	2333535	A2	2345122	A3
A1.31	Measured household connected properties	-	-	Nr	I	447	A2	426	A3
A1.32	Unmeasured non-household connected properties	-	-	Nr	I	43465	B4	44159	B4
A1.33	Measured non-household connected properties	-	-	Nr	I	92881	B4	94365	B4
A1.34	Total number of connected properties	-	-	Nr	C	2470328	B4	2484072	B4
A1.35	Number of properties connected during the report year	-	-	Nr	I	13813	A2	14562	A3
Trade Effluent									
A1.36	Billed Properties	-	-	Nr	I	1425	A2	1394	A3
A1.37	Connected Properties	-	-	Nr	I	2756	B3	2766	B4
A1.38	Trade effluent load receiving secondary treatment (BOD/yr)	-	-	tonnes	I	20882	B2	20831	B4
A1.39	Trade effluent load receiving secondary treatment (COD/yr)	-	-	tonnes	I	43581	B2	43478	B4

Prepared by: Date:
 Checked by: Date:
 Authorised by: Geoff Aitkenhead Date: 14th June 2012

ANNUAL RETURN INFORMATION REQUIREMENTS

SECTION A : BASE INFORMATION
Table A2: Population, volumes and loads (Water)

Line Ref.	Description	Ofwat Reference JR 08	WICS Reference AR 07	Units	Field Type	10		20		30	
						Report Year -2 2009-10	CG	Report Year -1 2010-11	CG	Report Year 2011-12	CG
Summary - Population - Water											
A2.1	Winter	-	A1.71	000	I	5035.060	A2	5056.507	A2	5077.875	A2
A2.2	Summer	-	A1.72	000	I	5259.77	B2	5228.43	B2	5249.796	B2
Household - Population - Water											
A2.3	Population of unmeasured household properties	T7, L31	A1.73	000	I	4942.850	A2	4957.383	A2	4980.970	A2
A2.4	Population of measured household properties	T7, L32	A1.74	000	I	1.240	A2	1.147	A2	1.094	A2
A2.5	Household population connected to the water service	-	A1.75	000	C	4944.09	A2	4958.53	A2	4982.06	A2
Water Balance											
A2.6	Water treated at own works to own customers	T10, L33	-	MI/d	I	2044.406	B3	2000.08	B3	1895.43	B2
A2.7	Distribution input treated water	T10, L30	-	MI/d	I	2044.406	B3	2000.08	B3	1895.43	B2
A2.8	Bulk supply imports	T10, L32	A2.41	MI/d	I	0.000	N	0.00	N	0.00	N
A2.9	Bulk supply exports	T10, L33	A2.42	MI/d	I	0.000	N	0.00	N	0.00	N
A2.10	Net Distribution input treated water (water put into supply)	-	-	MI/d	C	2044.41	N	2000.08	B3	1895.43	B2
A2.11	Unmeasured household volume of water delivered (including losses)	T10, L4	A2.1	MI/d	I	843.835	B2	841.89	B2	826.40	B2
A2.12	Measured household volume of water delivered (including losses)	T10, L1	A2.5	MI/d	I	0.226	B2	0.28	B2	0.24	B2
A2.13	Unmeasured non-household volume of water delivered (including losses)	T10, L5	sum(A2.22:A2.25)	MI/d	I	17.423	C5	17.05	C5	20.28	C5
A2.14	Measured non-household volume of water delivered (including losses)	T10, L2	sum(A2.9:A2.16)	MI/d	I	427.914	B3	419.79	B3	408.53	B3
A2.15	Water taken unbilled - legally	T10, L21	A2.34	MI/d	I	55.657	C4	50.72	C4	55.79	C4
A2.16	Water taken unbilled - illegally	T10, L22	A2.35	MI/d	I	2.892	C4	2.20	C4	1.40	C4
A2.17	Water taken unbilled - Distribution System Operational Use (DSOU)	T10, L20	A2.33	MI/d	I	3.806	C3	6.02	C3	4.33	C3
A2.18	Net Consumption (including supply pipe losses)	-	-	MI/d	C	1351.75	N	1337.96	B3	1316.96	B3
A2.19	Distribution losses (including trunk mains and reservoirs)	-	-	MI/d	C	692.65	B3	662.12	B3	578.47	B3
A2.20	Customer supply pipe losses	-	-	MI/d	I	90.82	C3	94.81	C3	82.22	C3
A2.21	Overall water balance	T10, L34	-	-	I		B3		B3		B3
Leakage											
A2.22	Total Leakage (pre-MLE Adjustment)	-	-	MI/d	I	705.12	B4	693.36	B3	617.20	B3
A2.23	Water Balance Closing Error	-	-	%	C	3.83	B3	3.18	B3	2.29	B3
A2.24	MLE Adjustment	-	-	MI/d	I	33.08	B3	5.78	B3	12.04	B3
A2.25	Total Leakage (post-MLE Adjustment)	-	-	MI/d	C	738.21	B3	699.15	B3	629.24	B3
Water delivered - non-potable											
A2.26	Volume of non-potable water delivered	T10, L25	A2.17	MI/d	I	10.790	C5	12.288	C5	16.919	C5
Water delivered - components											
A2.27	Per capita consumption (unmeas'd h'hold - excl s/pipe leakage)	T10, L12	A2.4	l/h/d	I	153.76	B2	151.400	B2	149.997	B2
A2.28	Per capita consumption (meas'd h'hold - excl s/pipe leakage)	T10, L13	A2.8	l/h/d	I	176.13	B3	241.184	B3	209.981	B3
A2.29	Meter under-registration (measured households) (included in water delivered)	T10, L18	A2.7	MI/d	I	0.009	C3	0.011	C3	0.009	C3
A2.30	Meter under-registration (measured non-households) (included in water delivered)	T10, L19	A2.21	MI/d	I	18.795	C3	18.445	C3	18.197	C3

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ANNUAL RETURN INFORMATION REQUIREMENTS

SECTION A : BASE INFORMATION
Table A3: Population, volumes and loads (Waste water)

Line Ref.	Description	Ofwat Reference JR 08	WICS Reference AR 07	Units	Field Type	10		20		30	
						Report Year -2 2009-10	CG	Report Year -1 2010-11	CG	Report Year 2011-12	CG
Summary - Population - Waste water											
A3.1	Winter	-	A3.81	000	I	5035.060	A2	5056.507	A2	4879.626	A2
A3.2	Summer	-	A3.82	000	I	5170.821	B2	5164.075	B2	4987.194	B2
A3.3	Household Population connected to the wastewater service	-	A3.83	000	I	4753.510	A2	4767.151	A2	4787.309	A2
A3.4	Assumed percentage returned to sewer	-	A3.84	%	I	95%	A2	95%	A2	0.950	A2
Sewage - Volumes											
A3.5	Unmeasured household volume (including exempt)	T14, L1	A4.1	MI/d	I	694.30	B3	685.47	B3	682.14	B3
A3.6	Measured household volume	-	-	MI/d	I	0.032	A2	0.036	A2	0.027	A2
A3.7	Unmeasured non-household foul volume (including exempt)	L14, L2	sum(A4.2:A4.5)	MI/d	I	13.706	B3	13.687	B3	17.405	B3
A3.8	Measured non-household foul volume	-	sum(A4.8:A4.15)	MI/d	I	155.347	B3	140.826	B3	139.195	B3
A3.9	Trade effluent volume	L14, L5	A4.16	MI/d	I	92.472	A3	88.843	B2	91.452	B2
A3.10	Total volume	L14, L3 + L4	A4.18	MI/d	C	955.859	B3	928.866	B3	930.217	B3
A3.11	Volume septic tank waste	T14, L8	A4.19	MI	I	30.635	A3	30.422	A3	25.112	A3
Sewage - Load (BOD/yr)											
A3.12	Unmeasured household load (including exempt)	-	-	tonnes	I	104093.919	B3	104393.796	B3	105,122.902	B3
A3.13	Measured household load	-	-	tonnes	I	7.950	B4	6.812	B4	6.455	B4
A3.14	Unmeasured non-household foul load (including exempt)	-	-	tonnes	I	1500.832	B4	1498.712	B4	1911.113	B4
A3.15	Measured non-household foul load	-	-	tonnes	I	17010.524	B3	15420.437	B3	15283.656	B3
A3.16	Trade effluent load	-	-	tonnes	I	24910.846	B3	25654.054	B2	22524.707	B2
A3.17	Total load discharged from primary services	-	-	tonnes	C	147524.071	B3	146973.811	B3	144848.834	B3
A3.18	Private septic tank load	-	-	tonnes	I	133.199	B3	122.494	B3	123.296	B3
A3.19	Public septic tank load	-	-	tonnes	I	67.245	B3	76.558	B3	41.013	B3
A3.20	Other tanker load	-	-	tonnes	I	140.671	B3	163.906	B3	123.752	B3
A3.21	Total load entering sewerage system (BOD/yr)	-	A4.34	tonnes	C	147865.186	B3	147336.768	B3	145136.896	B3
A3.22	Average COD concentration	T15, L22	A4.35	mg/l	I	350.00	B2	350.00	B2	350.00	B2
A3.23	Average suspended solids concentration	T15, L23	A4.36	mg/l	I	250.00	B2	250.00	B2	250.00	B2
A3.24	Equivalent population served (resident)	-	A4.37	000	I	6843.088	B3	6807.934	B3	6713.192	B3
A3.25	Equivalent population served (resident)(numerical consents)	-	A4.38	000	I	6762.634	B3	6747.045	B3	6641.881	B3
A3.26	Total load receiving treatment through PPP treatment works	-	A4.39	tonnes	I	67659.158	B3	67447.659	B3	66668.555	B3
Sewage Sludge Treatment and Disposal											
A3.27	Total sewage sludge disposal	T15, L47	A4.52	ttds	I	115.686	A2	125.058	B3	133.789	B4
A3.28	Total sewage sludge disposal by PPP treatment works	-	-	ttds	I	95.273	B4	105.367	B4	113.759	B4
A3.29	Percentage unsatisfactory sludge disposal	T15, L48	A4.53	%	I	0.00	A1	0.00	A1	0.00	A1

Prepared by: Date:
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 Authorised by: Geoff Aitkenhead Date: 14th June 2012

CONFIDENCE GRADES LOOK UP TABLE

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