

## 4J - Atypical expenditure by business unit - Wholesale water

Southern Water

For the 12 months ended 31 March 2018

Line description	Units	DPs	Water resources		Network+				Total	Company commentary (if required)	
			Abstraction licences	Raw water abstraction	Raw water transport	Raw water storage	Water treatment	Treated water distribution			
<b>A Operating expenditure (excl. atypicals)</b>											
4J.1	Power	£m	3	0.000	4.039	0.000	0.000	8.025	3.061	15.125	
4J.2	Income treated as negative expenditure	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
4J.3	Abstraction charges/ discharge consents	£m	3	4.974	0.000	0.000	0.000	0.065	0.000	5.039	
4J.4	Bulk supply	£m	3	0.000	0.000	0.000	0.000	0.080	0.000	0.080	
<b>Other operating expenditure</b>											
4J.5	- Renewals expensed in year (Infrastructure)	£m	3	0.000	0.000	0.000	0.000	0.000	17.341	17.341	
4J.6	- Renewals expensed in year (Non-Infrastructure)	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
4J.7	- Other operating expenditure excluding renewals	£m	3	0.308	3.172	0.238	0.241	17.210	17.741	38.910	
4J.8	Local authority and Cumulo rates	£m	3	0.000	1.141	0.157	0.000	1.962	11.573	14.833	
4J.9	Total operating expenditure (excluding third party services)	£m	3	5.282	8.352	0.395	0.241	27.342	49.716	91.328	
4J.10	Third party services	£m	3	0.290	0.837	0.000	0.000	1.023	0.975	3.125	
4J.11	Total operating expenditure	£m	3	5.572	9.189	0.395	0.241	28.365	50.691	94.453	
<b>B Capital expenditure (excl. atypicals)</b>											
4J.12	Maintaining the long term capability of the assets - infra	£m	3	0.000	0.053	0.196	0.000	0.002	10.933	11.184	
4J.13	Maintaining the long term capability of the assets - non-infra	£m	3	0.000	5.965	0.000	0.005	52.788	20.986	79.744	
4J.14	Other capital expenditure - infra	£m	3	0.000	1.197	1.972	0.000	1.873	12.568	17.610	
4J.15	Other capital expenditure - non-infra	£m	3	0.272	3.255	0.000	0.000	26.503	1.665	31.695	
4J.16	Infrastructure network reinforcement	£m	3	0.000	0.000	0.000	0.000	0.000	0.258	0.258	
4J.17	Total gross capital expenditure excluding third party services	£m	3	0.272	10.470	2.168	0.005	81.166	46.410	140.491	
4J.18	Third party services	£m	3	0.000	1.908	0.000	0.000	0.785	1.053	3.746	
4J.19	Total gross capital expenditure	£m	3	0.272	12.378	2.168	0.005	81.951	47.463	144.237	
4J.20	Grants and contributions	£m	3	0.000	0.700	0.000	0.001	0.759	10.895	12.355	
4J.21	Totex	£m	3	5.844	20.867	2.563	0.245	109.557	87.259	226.335	
<b>C Cash expenditure (excl. atypicals)</b>											
4J.22	Pension deficit recovery payments	£m	3	0.000	0.020	0.000	0.002	0.247	0.268	0.537	
4J.23	Other cash items	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
4J.24	Totex including cash items	£m	3	5.844	20.887	2.563	0.247	109.804	87.527	226.872	
<b>D Atypical expenditure</b>											
4J.25	Hants Abstraction Enquiry	£m	3	0.000	2.962	0.000	0.000	0.000	0.000	2.962	
4J.26	Cumulo Rates Rebate	£m	3	0.000	-0.255	-0.035	0.000	-0.438	-2.584	-3.312	
4J.27	Discolouration Fine	£m	3	0.000	0.000	0.000	0.000	0.000	0.550	0.550	
4J.35	Total atypical expenditure	£m	3	0.000	2.707	-0.035	0.000	-0.438	-2.034	0.200	
<b>E Total expenditure</b>											
4J.36	Total expenditure	£m	3	5.844	23.594	2.528	0.247	109.366	85.493	227.072	

## 4K - Atypical expenditure by business unit - Wholesale wastewater

Southern Water

For the 12 months ended 31 March 2018

Line description	Units	DPs	Network+ Sewage Collection			Network+ Sewage Treatment		Sludge			Total	Company commentary (if required)
			Foul	Surface water drainage	Highway drainage	Sewage treatment and disposal	Sludge liquor treatment	Sludge transport	Sludge treatment	Sludge disposal		

A Operating expenditure (excl. atypicals)													
4K.1	Power	£m	3	8.155	1.749	1.749	17.390	0.691	0.023	-2.769	0.000	26.988	
4K.2	Income treated as negative expenditure	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	-3.559	0.000	-3.559	
4K.3	Discharge Consents	£m	3	0.544	0.119	0.119	2.355	0.046	0.000	0.001	0.000	3.184	
4K.4	Bulk discharge	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
Other operating expenditure													
4K.5	- Renewals expensed in year (Infrastructure)	£m	3	15.446	3.367	3.367	0.000	0.000	0.000	0.000	0.000	22.180	
4K.6	- Renewals expensed in year (Non-Infrastructure)	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
4K.7	- Other operating expenditure excluding renewals	£m	3	22.918	3.795	3.795	35.204	1.168	4.338	15.340	4.644	91.202	
4K.8	Local authority and Cumulo rates	£m	3	0.079	0.017	0.017	13.279	0.372	0.000	1.434	0.000	15.198	
4K.9	Total operating expenditure (excluding third party services)	£m	3	47.142	9.047	9.047	68.228	2.277	4.361	10.447	4.644	155.193	

4K.10	Third party services	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
4K.11	Total operating expenditure	£m	3	47.142	9.047	9.047	68.228	2.277	4.361	10.447	4.644	155.193	

B Capital expenditure (excl. atypicals)													
4K.12	Maintaining the long term capability of the assets - infra	£m	3	10.153	2.176	2.176	0.000	0.000	0.000	0.000	0.000	14.505	
4K.13	Maintaining the long term capability of the assets - non-infra	£m	3	9.528	2.042	2.042	116.630	0.000	0.000	13.608	0.000	143.850	
4K.14	Other capital expenditure - infra	£m	3	27.828	5.963	5.963	0.304	0.000	0.000	0.000	0.000	40.058	
4K.15	Other capital expenditure - non-infra	£m	3	5.059	1.084	1.084	50.302	0.000	0.000	2.886	0.000	60.415	
4K.16	Infrastructure network reinforcement	£m	3	10.531	2.257	2.257	0.000	0.000	0.000	0.000	0.000	15.045	
4K.17	Total gross capital expenditure excluding third party services	£m	3	63.099	13.522	13.522	167.236	0.000	0.000	16.494	0.000	273.873	
4K.18	Third party services	£m	3	1.339	0.287	0.287	0.000	0.000	0.000	0.000	0.000	1.913	
4K.19	Total gross capital expenditure	£m	3	64.438	13.809	13.809	167.236	0.000	0.000	16.494	0.000	275.786	
4K.20	Grants and contributions	£m	3	7.501	1.607	1.607	0.000	0.000	0.000	0.000	0.000	10.715	
4K.21	Totex	£m	3	104.079	21.249	21.249	235.464	2.277	4.361	26.941	4.644	420.264	

C Cash expenditure (excl. atypicals)													
4K.22	Pension deficit recovery payments	£m	3	0.353	0.059	0.059	0.552	0.061	0.000	0.088	0.000	1.172	
4K.23	Other cash items	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
4K.24	Totex including cash items	£m	3	104.432	21.308	21.308	236.016	2.338	4.361	27.029	4.644	421.436	

D Atypical expenditure													
4K.25	Ofwat and EA investigations including Legal Defence costs	£m	3	0.000	0.000	0.000	3.309	0.000	0.000	0.000	0.000	3.309	
4K.35	Total atypical expenditure	£m	3	0.000	0.000	0.000	3.309	0.000	0.000	0.000	0.000	3.309	

E Total expenditure													
4K.36	Total expenditure	£m	3	104.432	21.308	21.308	239.325	2.338	4.361	27.029	4.644	424.745	

## 4L - Enhancement expenditure by purpose - Wholesale water

For the 12 months ended 31 March 2018

Line description	Units	DPs	Expenditure in report year							Total
			Water resources		Network+					
			Abstraction licences	Raw water abstraction	Raw water transport	Raw water storage	Water treatment	Treated water distribution		
<b>A</b>	<b>Enhancement expenditure by purpose</b>									
4L.1	NEP - Making ecological improvements at abstractions (Habitats Directive, SSSI, NERC, BAPs)	£m	3	0.000	3.203	0.000	0.000	0.111	1.306	4.620
4L.2	NEP - Eels Regulations (measures at intakes)	£m	3	0.000	0.473	0.000	0.000	0.000	0.000	0.473
4L.3	Addressing low pressure	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4L.4	Improving taste / odour / colour	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4L.5	Meeting lead standards	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4L.6	Supply side enhancements to the supply/demand balance (dry year critical / peak conditions)	£m	3	0.157	0.000	1.972	0.000	0.000	-0.001	2.128
4L.7	Supply side enhancements to the supply/demand balance (dry year annual average conditions)	£m	3	0.115	0.354	0.000	0.000	0.505	0.790	1.764
4L.8	Demand side enhancements to the supply/demand balance (dry year critical / peak conditions)	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4L.9	Demand side enhancements to the supply/demand balance (dry year annual average conditions)	£m	3	0.000	0.000	0.000	0.000	0.000	3.672	3.672
4L.10	New developments	£m	3	0.000	0.000	0.000	0.000	0.000	7.199	7.199
4L.11	New connections element of new development (CPs, meters)	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4L.12	Investment to address raw water deterioration (THM, nitrates, Crypto, pesticides, others)	£m	3	0.000	0.390	0.000	0.000	20.288	0.107	20.785
4L.13	Resilience	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4L.14	SEMD	£m	3	0.000	0.032	8.000	0.000	7.472	1.423	8.927
4L.15	NEP - Investigations	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4L.16	Improvements to river flows	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4L.17	Metering (excluding cost of providing metering to new service connections) - meters requested by optants	£m	3	0.000	0.000	0.000	0.000	0.000	-0.005	-0.005
4L.18	Metering (excluding cost of providing metering to new service connections)- meters introduced by companies	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4L.19	Metering (excluding cost of providing metering to new service connections) - other	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4L.35	Total enhancement capital expenditure	£m	3	0.272	4.452	1.972	0.000	28.376	14.491	49.563

## 4L - Enhancement expenditure by purpose - Wholesale water

For the 12 months ended 31 March 2018

Line description	Units	DPs	Cumulative expenditure on schemes completed in the report year							Total	
			Water resources		Network+						
			Abstraction licences	Raw water abstraction	Raw water transport	Raw water storage	Water treatment	Treated water distribution			
<b>A</b>	<b>Enhancement expenditure by purpose</b>										
4L.1	NEP - Making ecological improvements at abstractions (Habitats Directive, SSSI, NERC, BAPs)	£m	3	0.000	0.008	0.000	0.000	0.000	0.000	0.000	0.008
4L.2	NEP - Eels Regulations (measures at intakes)	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4L.3	Addressing low pressure	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4L.4	Improving taste / odour / colour	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4L.5	Meeting lead standards	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4L.6	Supply side enhancements to the supply/demand balance (dry year critical / peak conditions)	£m	3	0.000	0.000	5.894	0.000	0.000	0.000	-0.001	5.893
4L.7	Supply side enhancements to the supply/demand balance (dry year annual average conditions)	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4L.8	Demand side enhancements to the supply/demand balance (dry year critical / peak conditions)	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4L.9	Demand side enhancements to the supply/demand balance (dry year annual average conditions)	£m	3	0.000	0.000	0.000	0.000	-0.040	3.712	3.672	
4L.10	New developments	£m	3	0.000	0.000	0.000	0.000	0.466	6.733	7.199	
4L.11	New connections element of new development (CPs, meters)	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
4L.12	Investment to address raw water deterioration (THM, nitrates, Crypto, pesticides, others)	£m	3	0.000	0.000	0.000	0.314	0.000	0.000	0.314	
4L.13	Resilience	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
4L.14	SEMD	£m	3	0.000	0.031	0.000	0.000	0.005	0.000	0.036	
4L.15	NEP - Investigations	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
4L.16	Improvements to river flows	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
4L.17	Metering (excluding cost of providing metering to new service connections) - meters requested by optants	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
4L.18	Metering (excluding cost of providing metering to new service connections)- meters introduced by companies	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
4L.19	Metering (excluding cost of providing metering to new service connections) - other	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
4L.35	Total enhancement capital expenditure	£m	3	0.000	0.039	5.894	0.314	0.431	10.444	17.122	

### 4M - Enhancement expenditure by purpose - Wholesale wastewater

For the 12 months ended 31 March 2018

Line description	Units	DPs	Expenditure in report year									Total	
			Network+Sewage Collection			Network+Sewage Treatment		Sludge					
			Foul	Surface water drainage	Highway drainage	Sewage treatment and disposal	Sludge liquor treatment	Sludge transport	Sludge treatment	Sludge disposal			
<b>A</b>	<b>Enhancement capital expenditure by purpose</b>												
4M.1	First time sewerage (s101A)	£m	3	3.639	0.780	0.780	0.000	0.000	0.000	0.000	0.000	0.000	5.199
4M.2	Sludge enhancement (quality)	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	1.241	0.000	0.000	1.241
4M.3	Sludge enhancement (growth)	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	1.645	0.000	0.000	1.645
4M.4	NEP - Conservation drivers	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4M.5	NEP - Eels Regulations (measures at outfalls)	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4M.6	NEP - Event Duration Monitoring at intermittent discharges	£m	3	0.000	0.000	0.000	1.637	0.000	0.000	0.000	0.000	0.000	1.637
4M.7	NEP - Flow monitoring at sewage treatment works	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4M.8	NEP - Monitoring of pass forward flows at CSOs	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4M.9	NEP - Schemes to increase flow to full treatment	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4M.10	NEP - Schemes to increase storm tank capacity	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4M.11	NEP - Storage schemes to reduce spill frequency at CSOs, storm tanks, etc	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4M.12	NEP - Chemicals monitoring/ investigations/ options appraisals	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4M.13	NEP - National phosphorus removal technology investigations	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4M.14	NEP - Groundwater schemes	£m	3	0.576	0.123	0.123	2.263	0.000	0.000	0.000	0.000	0.000	3.085
4M.15	NEP - Investigations	£m	3	0.002	0.000	0.000	0.045	0.000	0.000	0.000	0.000	0.000	0.047
4M.16	NEP - Nutrients (N removal)	£m	3	0.141	0.030	0.030	8.073	0.000	0.000	0.000	0.000	0.000	8.274
4M.17	NEP - Nutrients (P removal at activated sludge STWs)	£m	3	0.000	0.000	0.000	2.360	0.000	0.000	0.000	0.000	0.000	2.360
4M.18	NEP - Nutrients (P removal at filter bed STWs)	£m	3	0.141	0.030	0.030	7.131	0.000	0.000	0.000	0.000	0.000	7.332
4M.19	NEP - Reduction of sanitary parameters	£m	3	0.000	0.000	0.000	8.456	0.000	0.000	0.000	0.000	0.000	8.456
4M.20	NEP - UV disinfection (or similar)	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4M.21	NEP - Discharge relocation	£m	3	0.000	0.000	0.000	0.022	0.000	0.000	0.000	0.000	0.000	0.022
4M.22	NEP - Flow 1 schemes	£m	3	0.000	0.000	0.000	0.123	0.000	0.000	0.000	0.000	0.000	0.123
4M.23	Odour	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4M.24	New development and growth	£m	3	14.084	3.018	3.018	0.141	0.000	0.000	0.000	0.000	0.000	20.261
4M.25	Growth at sewage treatment works (excluding sludge treatment)	£m	3	-0.006	-0.001	-0.001	12.567	0.000	0.000	0.000	0.000	0.000	12.559
4M.26	Resilience	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4M.27	SEMD	£m	3	0.000	0.000	0.000	0.650	0.000	0.000	0.000	0.000	0.000	0.650
4M.28	Reduce flooding risk for properties	£m	3	1.876	0.402	0.402	0.074	0.000	0.000	0.000	0.000	0.000	2.754
4M.29	WFD Manage uncertainty Special case	£m	3	0.272	0.058	0.058	1.855	0.000	0.000	0.000	0.000	0.000	2.243
4M.30	AMP 6 Bathing Water enhancement	£m	3	2.255	0.483	0.483	0.701	0.000	0.000	0.000	0.000	0.000	3.922
4M.31	NEP Bathing Water	£m	3	0.021	0.005	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.031
4M.32	Adopted Sewers	£m	3	16.224	3.477	3.477	0.000	0.000	0.000	0.000	0.000	0.000	23.178
4M.33	Woolston part 2	£m	3	0.000	0.000	0.000	3.343	0.000	0.000	0.000	0.000	0.000	3.343
4M.34	Adopted private pumping stations	£m	3	4.193	0.899	0.899	1.165	0.000	0.000	0.000	0.000	0.000	7.156
4M.44	Total enhancement capital expenditure	£m	3	43.418	9.304	9.304	50.606	0.000	0.000	2.886	0.000	0.000	115.518

### 4M - Enhancement expenditure by purpose - Wholesale wastewater

For the 12 months ended 31 March 2018

Line description	Units	DPs	Cumulative expenditure on schemes completed in the report year									Total	
			Network+Sewage Collection			Network+Sewage Treatment		Sludge					
			Foul	Surface water drainage	Highway drainage	Sewage treatment and disposal	Sludge liquor treatment	Sludge transport	Sludge treatment	Sludge disposal			
<b>A</b>	<b>Enhancement capital expenditure by purpose</b>												
4M.1	First time sewerage (s101A)	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4M.2	Sludge enhancement (quality)	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4M.3	Sludge enhancement (growth)	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.110	0.000	1.110
4M.4	NEP - Conservation drivers	£m	3	0.000	0.000	0.000	-0.006	0.000	0.000	0.000	0.000	0.000	-0.006
4M.5	NEP - Eels Regulations (measures at outfalls)	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4M.6	NEP - Event Duration Monitoring at intermittent discharges	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4M.7	NEP - Flow monitoring at sewage treatment works	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4M.8	NEP - Monitoring of pass forward flows at CSOs	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4M.9	NEP - Schemes to increase flow to full treatment	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4M.10	NEP - Schemes to increase storm tank capacity	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4M.11	NEP - Storage schemes to reduce spill frequency at CSOs, storm tanks, etc	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4M.12	NEP - Chemicals monitoring/ investigations/ options appraisals	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4M.13	NEP - National phosphorus removal technology investigations	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4M.14	NEP - Groundwater schemes	£m	3	0.000	0.000	0.000	3.296	0.000	0.000	0.000	0.000	0.000	3.296
4M.15	NEP - Investigations	£m	3	0.002	0.000	0.000	0.241	0.000	0.000	0.000	0.000	0.000	0.243
4M.16	NEP - Nutrients (N removal)	£m	3	0.000	0.000	0.000	-0.153	0.000	0.000	0.000	0.000	0.000	-0.153
4M.17	NEP - Nutrients (P removal at activated sludge STWs)	£m	3	0.000	0.000	0.000	0.171	0.000	0.000	0.000	0.000	0.000	0.171
4M.18	NEP - Nutrients (P removal at filter bed STWs)	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4M.19	NEP - Reduction of sanitary parameters	£m	3	0.000	0.000	0.000	0.090	0.000	0.000	0.000	0.000	0.000	0.090
4M.20	NEP - UV disinfection (or similar)	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4M.21	NEP - Discharge relocation	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4M.22	NEP - Flow 1 schemes	£m	3	0.000	0.000	0.000	0.045	0.000	0.000	0.000	0.000	0.000	0.045
4M.23	Odour	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4M.24	New development and growth	£m	3	12.443	2.666	2.666	0.141	0.000	0.000	0.000	0.000	0.000	17.916
4M.25	Growth at sewage treatment works (excluding sludge treatment)	£m	3	0.179	0.038	0.038	5.013	0.000	0.000	0.000	0.000	0.000	5.288
4M.26	Resilience	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4M.27	SEMD	£m	3	0.000	0.000	0.000	0.263	0.000	0.000	0.000	0.000	0.000	0.263
4M.28	Reduce flooding risk for properties	£m	3	1.589	0.341	0.341	0.183	0.000	0.000	0.000	0.000	0.000	2.454
4M.29	WFD Manage uncertainty Special case	£m	3	-0.026	-0.006	-0.006	0.077	0.000	0.000	0.000	0.000	0.000	0.039
4M.30	AMP 6 Bathing Water enhancement	£m	3	0.000	0.000	0.000	3.830	0.000	0.000	0.000	0.000	0.000	3.830
4M.31	NEP Bathing Water	£m	3	1.150	0.246	0.246	0.000	0.000	0.000	0.000	0.000	0.000	1.642
4M.32	Adopted Sewers	£m	3	16.225	3.477	3.477	0.000	0.000	0.000	0.000	0.000	0.000	23.179
4M.33	Woolston part 2	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4M.34	Adopted private pumping stations	£m	3	0.013	0.003	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.019
4M.44	Total enhancement capital expenditure	£m	3	31.575	6.765	6.765	13.191	0.000	0.000	0.000	1.110	0.000	59.406

## 4N - Operating expenditure - Sewage treatment - Wholesale wastewater

Southern Water

For the 12 months ended 31 March 2018

Line description		Unit	DPs	Network+	Sludge	Total	Company commentary (if required)
4N.1	Direct costs of STWs in size band 1	£000	3	1966.052		1966.052	
4N.2	Direct costs of STWs in size band 2	£000	3	1207.264		1207.264	
4N.3	Direct costs of STWs in size band 3	£000	3	6134.930		6134.930	
4N.4	Direct costs of STWs in size band 4	£000	3	9011.504		9011.504	
4N.5	Direct costs of STWs in size band 5	£000	3	5742.293		5742.293	
4N.6	General & support costs of STWs in size bands 1 to 5	£000	3	5610.360		5610.360	
4N.7	Direct costs of STWs in size band 6	£000	3	31310.000		31310.000	
4N.8	General & support costs of STWs in size band 6	£000	3	10555.000		10555.000	
4N.9	Service charges for STWs in size band 6	£000	3	819.000		819.000	
4N.10	Estimated terminal pumping costs size band 6 works	£000	3	0.000		0.000	
4N.11	Estimated sludge costs size band 6 works	£000	3	0.000		0.000	
4N.12	Total operating expenditure (excluding 3rd party services)	£000	3	71537.403		71537.403	

## 40 - Large sewage treatment works - Wholesale wastewater

For the 12 months ended 31 March 2018

Line description	Units	DPs	STWNAMED01	STWNAMED02	STWNAMED03	STWNAMED04	STWNAMED05	STWNAMED06
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### A Sewage treatment works - Explanatory variables

40.1	Works name	text	0	ASHFORD	AYLESFORD	BEXHILL AND HASTINGS	BROOMFIELD BANK	BUDDS FARM	CANTERBURY
40.2	Classification of treatment works	text	0	TB2	SB	SAS	SAS	TA2	TA2
40.3	Population equivalent of total load received	000	2	88.79	126.11	141.26	114.27	366.74	63.90
40.4	Suspended solids consent	mg/l	0	17	60	150	150	60	20
40.5	BOD <sub>5</sub> consent	mg/l	0	11	40	0	0	40	15
40.6	Ammonia consent	mg/l	0	2	0	0	0	0	4
40.7	Phosphorus consent	mg/l	0	0.5	0	0	0	0	0
40.8	UV consent	mW/s/cm <sup>2</sup>	0	0	0	0	0	0	0
40.9	Load received by STW	kgBOD <sub>5</sub> /d	0	5327	7566	8476	6856	22004	3834
40.10	Flow passed to full treatment	m <sup>3</sup> /d	0	23,126	20,695	36,494	31,470	111,609	17,408

### B Sewage treatment works - Operating expenditure

40.11	Direct expenditure	£000	0	825	273	631	1283	1739	249
40.12	General and support expenditure	£000	0	346	179	205	460	570	177
40.13	Functional expenditure	£000	0	1171	452	836	1743	2309	426
40.14	Service charges	£000	0	25	34	15	15	79	13
40.15	Estimated terminal pumping expenditure	£000	0	0	0	0	0	0	0



**40 - Large sewage treatment works - Wholesale w**

For the 12 months ended 31 March 2018

Line description	Units	DPs	STWNAMED07	STWNAMED08	STWNAMED09	STWNAMED10	STWNAMED11	STWNAMED12
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**A Sewage treatment works - Explanatory variables**

40.1	Works name	text	0	CHICHESTER	CHICKENHALL EASTLIEGH	EASTBOURNE	FAIRLEE	FAVERSHAM	FORD
40.2	Classification of treatment works	text	0	TA2	TB2	SAS	0	SB	SAS
40.3	Population equivalent of total load received	000	2	36.61	94.66	116.44	0.00	43.66	130.75
40.4	Suspended solids consent	mg/l	0	45	20	150	0	60	150
40.5	BOD <sub>5</sub> consent	mg/l	0	35	12	0	0	40	0
40.6	Ammonia consent	mg/l	0	0	2.8	0	0	0	0
40.7	Phosphorus consent	mg/l	0	0	1	0	0	0	0
40.8	UV consent	mW/s/cm <sup>2</sup>	0	32	0	0	0	0	0
40.9	Load received by STW	kgBOD <sub>5</sub> /d	0	2197	5679	6986	0	2620	7845
40.10	Flow passed to full treatment	m <sup>3</sup> /d	0	12,056	30,393	30,949	0	6,432	34,464

**B Sewage treatment works - Operating expenditure**

40.11	Direct expenditure	£000	0	406	903	2351	0	281	486
40.12	General and support expenditure	£000	0	195	335	869	0	78	150
40.13	Functional expenditure	£000	0	601	1238	3220	0	359	636
40.14	Service charges	£000	0	23	26	22	0	14	10
40.15	Estimated terminal pumping expenditure	£000	0	0	0	0	0	0	0

## 40 - Large sewage treatment works - Wholesale w

For the 12 months ended 31 March 2018

Line description	Units	DPs	STWNAMED13	STWNAMED14	STWNAMED15	STWNAMED16	STWNAMED17	STWNAMED18
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A Sewage treatment works - Explanatory variables									
40.1	Works name	text	0	FULLERTON	GODDARDS GREEN	GRAVESEND	HAILSHAM SOUTH	HAILSHAM SOUTH NEW WORKS	HAM HILL
40.2	Classification of treatment works	text	0	TB2	TA1	SAS	TA2	0	TA1
40.3	Population equivalent of total load received	000	2	55.15	48.47	62.37	29.29	0.00	58.70
40.4	Suspended solids consent	mg/l	0	20	11	0	10	0	38
40.5	BOD <sub>5</sub> consent	mg/l	0	10	7	31	7	0	25
40.6	Ammonia consent	mg/l	0	3	2.5	60	2	0	25
40.7	Phosphorus consent	mg/l	0	1	0	0	1	0	0
40.8	UV consent	mW/s/cm <sup>2</sup>	0	0	0	0	0	0	0
40.9	Load received by STW	kgBOD <sub>5</sub> /d	0	3309	2908	3742	1757	0	3522
40.10	Flow passed to full treatment	m <sup>3</sup> /d	0	18,320	14,331	10,812	7,623	0	12,190

B Sewage treatment works - Operating expenditure									
40.11	Direct expenditure	£000	0	513	431	586	571	0	285
40.12	General and support expenditure	£000	0	171	177	113	202	0	197
40.13	Functional expenditure	£000	0	684	608	699	773	0	482
40.14	Service charges	£000	0	12	8	28	15	0	19
40.15	Estimated terminal pumping expenditure	£000	0	0	0	0	0	0	0

## 40 - Large sewage treatment works - Wholesale w

For the 12 months ended 31 March 2018

Line description	Units	DPs	STWNAMED19	STWNAMED20	STWNAMED21	STWNAMED22	STWNAMED23	STWNAMED24
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### A Sewage treatment works - Explanatory variables

40.1	Works name	text	0	HERNE BAY	HORSHAM NEW	MILLBROOK	MORESTEAD	MOTNEY HILL	NEWHAVEN EAST
40.2	Classification of treatment works	text	0	TA2	TB2	TA2	TA2	SAS	SAS
40.3	Population equivalent of total load received	000	2	41.67	74.39	140.03	37.84	261.12	58.72
40.4	Suspended solids consent	mg/l	0	15	12	40	60	60	150
40.5	BOD <sub>5</sub> consent	mg/l	0	10	8	25	40	40	0
40.6	Ammonia consent	mg/l	0	3	2.5	0	5	60	0
40.7	Phosphorus consent	mg/l	0	0	1	0	1	0	0
40.8	UV consent	mW/s/cm <sup>2</sup>	0	0	0	0	0	0	0
40.9	Load received by STW	kgBOD <sub>5</sub> /d	0	2500	4463	8402	2271	15667	3523
40.10	Flow passed to full treatment	m <sup>3</sup> /d	0	8,736	12,558	41,274	8,715	39,624	13,734

### B Sewage treatment works - Operating expenditure

40.11	Direct expenditure	£000	0	451	454	1348	650	1238	417
40.12	General and support expenditure	£000	0	157	371	279	217	360	170
40.13	Functional expenditure	£000	0	608	825	1627	867	1598	587
40.14	Service charges	£000	0	17	13	23	8	37	13
40.15	Estimated terminal pumping expenditure	£000	0	0	0	0	0	0	0

## 40 - Large sewage treatment works - Wholesale w

For the 12 months ended 31 March 2018

Line description	Units	DPs	STWNAMED25	STWNAMED26	STWNAMED27	STWNAMED28	STWNAMED29	STWNAMED30
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### A Sewage treatment works - Explanatory variables

40.1	Works name	text	0	NORTHFLEET	PEEL COMMON	PENNINGTON	PORTSLADE SHOREHAM	PORTSWOOD	QUEENBOROUGH
40.2	Classification of treatment works	text	0	SAS	TA2	TA2	SAS	SAS	SAS
40.3	Population equivalent of total load received	000	2	56.92	267.08	52.89	56.52	78.10	52.43
40.4	Suspended solids consent	mg/l	0	0	30	49	150	80	60
40.5	BOD <sub>5</sub> consent	mg/l	0	100	40	31	0	35	40
40.6	Ammonia consent	mg/l	0	50	0	0	0	0	0
40.7	Phosphorus consent	mg/l	0	0	0	0	0	0	0
40.8	UV consent	mW/s/cm <sup>2</sup>	0	0	22	30	0	0	0
40.9	Load received by STW	kgBOD <sub>5</sub> /d	0	3415	16025	3173	3391	4686	3146
40.10	Flow passed to full treatment	m <sup>3</sup> /d	0	10,148	74,118	20,055	8,771	22,727	11,711

### B Sewage treatment works - Operating expenditure

40.11	Direct expenditure	£000	0	511	1738	689	375	809	541
40.12	General and support expenditure	£000	0	149	687	206	80	261	115
40.13	Functional expenditure	£000	0	660	2425	895	455	1070	656
40.14	Service charges	£000	0	14	39	23	8	26	17
40.15	Estimated terminal pumping expenditure	£000	0	0	0	0	0	0	0

## 40 - Large sewage treatment works - Wholesale w

For the 12 months ended 31 March 2018

Line description	Units	DPs	STWNAMED31	STWNAMED32	STWNAMED33	STWNAMED34	STWNAMED35	STWNAMED36
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### A Sewage treatment works - Explanatory variables

40.1	Works name	text	0	SANDOWN	SCAYNES HILL	SITTINGBOURNE	SLOWHILL COPSE	SWALECLIFFE	TONBRIDGE
40.2	Classification of treatment works	text	0	SAS	TB1	SAS	TA2	TA2	TB2
40.3	Population equivalent of total load received	000	2	135.41	38.38	82.26	64.04	35.97	45.83
40.4	Suspended solids consent	mg/l	0	150	25	100	60	150	30
40.5	BOD <sub>5</sub> consent	mg/l	0	0	15	0	30	0	20
40.6	Ammonia consent	mg/l	0	0	5	0	0	0	10
40.7	Phosphorus consent	mg/l	0	0	0	0	0	0	0
40.8	UV consent	mW/s/cm <sup>2</sup>	0	0	0	0	0	24	0
40.9	Load received by STW	kgBOD <sub>5</sub> /d	0	8125	2303	4936	3842	2158	2750
40.10	Flow passed to full treatment	m <sup>3</sup> /d	0	39,875	10,198	12,287	17,723	7,835	10,424

### B Sewage treatment works - Operating expenditure

40.11	Direct expenditure	£000	0	1665	122	461	865	472	565
40.12	General and support expenditure	£000	0	550	153	168	184	162	212
40.13	Functional expenditure	£000	0	2215	275	629	1049	634	777
40.14	Service charges	£000	0	13	5	15	14	8	15
40.15	Estimated terminal pumping expenditure	£000	0	0	0	0	0	0	0

## 40 - Large sewage treatment works - Wholesale w

For the 12 months ended 31 March 2018

Line description	Units	DPs	STWNAMED37	STWNAMED38	STWNAMED39	STWNAMED40	STWNAMED41	STWNAMED42
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A Sewage treatment works - Explanatory variables									
40.1	Works name	text	0	TUNBRIDGE WELLS NORTH	TUNBRIDGE WELLS SOUTH	WEATHERLEES HILL	WHITEWALL CREEK	WEATHERLEES HILL B	WOOLSTON
40.2	Classification of treatment works	text	0	TB2	TA2	SAS	SB	TA2	SAS
40.3	Population equivalent of total load received	000	2	30.46	31.50	90.51	32.31	92.37	67.00
40.4	Suspended solids consent	mg/l	0	20	18	35	60	60	60
40.5	BOD <sub>5</sub> consent	mg/l	0	8	12	25	25	0	40
40.6	Ammonia consent	mg/l	0	3	4	5	20	0	0
40.7	Phosphorus consent	mg/l	0	0	0	0	0	0	0
40.8	UV consent	mW/s/cm <sup>2</sup>	0	0	0	0	0	31	0
40.9	Load received by STW	kgBOD <sub>5</sub> /d	0	1828	1890	5431	1939	5542	4020
40.10	Flow passed to full treatment	m <sup>3</sup> /d	0	7,043	8,686	18,754	5,584	19,951	12,558

B Sewage treatment works - Operating expenditure									
40.11	Direct expenditure	£000	0	531	427	1410	322	192	546
40.12	General and support expenditure	£000	0	135	158	467	95	21	202
40.13	Functional expenditure	£000	0	666	585	1877	417	213	748
40.14	Service charges	£000	0	15	15	23	14	22	23
40.15	Estimated terminal pumping expenditure	£000	0	0	0	0	0	0	0

## 40 - Large sewage treatment works - Wholesale w

For the 12 months ended 31 March 2018

Line description	Units	DPs	STWNAMED43	STWNAMED44	STWNAMED45
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A Sewage treatment works - Explanatory variables						
40.1	Works name	text	0	WORTHING EAST	PEACEHAVEN	PORTOBELLO BRIGHTON
40.2	Classification of treatment works	text	0	SAS	SAS	0
40.3	Population equivalent of total load received	000	2	140.31	294.99	0.00
40.4	Suspended solids consent	mg/l	0	150	150	0
40.5	BOD <sub>5</sub> consent	mg/l	0	0	0	0
40.6	Ammonia consent	mg/l	0	0	0	0
40.7	Phosphorus consent	mg/l	0	0	0	0
40.8	UV consent	mW/s/cm <sup>2</sup>	0	0	0	0
40.9	Load received by STW	kgBOD <sub>5</sub> /d	0	8419	17699	0
40.10	Flow passed to full treatment	m <sup>3</sup> /d	0	34,296	59,034	0

B Sewage treatment works - Operating expenditure						
40.11	Direct expenditure	£000	0	1139	1559	0
40.12	General and support expenditure	£000	0	303	269	0
40.13	Functional expenditure	£000	0	1442	1828	0
40.14	Service charges	£000	0	12	29	0
40.15	Estimated terminal pumping expenditure	£000	0	0	0	0

**40 - Large sewage treatment works - Wholesale w** Southern Water

For the 12 months ended 31 March 2018

Line description	Units	DPs	Company commentary (if required)
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A Sewage treatment works - Explanatory variables				
40.1	Works name	text	0	• Fairlee - Not an SRN large works, zero return (as per our conversation with Ofwat)
40.2	Classification of treatment works	text	0	• Hailsham South New Works – duplication of Hailsham South. Not an SRN works, zero return (as per our conversation with Ofwat)
40.3	Population equivalent of total load received	000	2	• Herne Bay - We have 2 discharges at Herne Bay aka May Street Herne Bay; the minimum of the two consents has been included here and other values combined for this report.
40.4	Suspended solids consent	mg/l	0	• Peacehaven - Replaces Portobello Brighton so zero return (as per our conversation with Ofwat).
40.5	BOD <sub>5</sub> consent	mg/l	0	
40.6	Ammonia consent	mg/l	0	
40.7	Phosphorus consent	mg/l	0	
40.8	UV consent	mW/s/cm <sup>2</sup>	0	
40.9	Load received by STW	kgBOD <sub>5</sub> /d	0	
40.10	Flow passed to full treatment	m <sup>3</sup> /d	0	

B Sewage treatment works - Operating expenditure				
40.11	Direct expenditure	£000	0	
40.12	General and support expenditure	£000	0	
40.13	Functional expenditure	£000	0	
40.14	Service charges	£000	0	
40.15	Estimated terminal pumping expenditure	£000	0	



**4P - Non-financial data for WR, WT and WD - Wholesale water**

Southern Water

For the 12 months ended 31 March 2018

Line	Line description	Units	DPs	Current year	Company commentary (if required)
<b>A Water resources</b>					
4P.1	Proportion of distribution input derived from impounding reservoirs	Propn 0 to 1	3	0.044	
4P.2	Proportion of distribution input derived from pumped storage reservoirs	Propn 0 to 1	3	0.000	
4P.3	Proportion of distribution input derived from river abstractions	Propn 0 to 1	3	0.249	
4P.4	Proportion of distribution input derived from groundwater works, excluding managed aquifer recharge (MAR) water supply schemes	Propn 0 to 1	3	0.707	
4P.5	Proportion of distribution input derived from artificial recharge (AR) water supply schemes	Propn 0 to 1	3	0.000	
4P.6	Proportion of distribution input derived from aquifer storage and recovery (ASR) water supply schemes	Propn 0 to 1	3	0.000	
4P.7	Number of impounding reservoirs	nr	0	3	
4P.8	Number of pumped storage reservoirs	nr	0	1	
4P.9	Number of river abstractions	nr	0	7	
4P.10	Number of groundwater works excluding managed aquifer recharge (MAR) water supply schemes	nr	0	83	
4P.11	Number of artificial recharge (AR) water supply schemes	nr	0	0	
4P.12	Number of aquifer storage and recovery (ASR) water supply schemes	nr	0	0	
4P.13	Total number of sources	nr	0	94	
4P.14	Total number of water reservoirs	nr	0	7	
4P.15	Total capacity of water reservoirs	MI	0	43685	
4P.16	Total number of intake and source pumping stations	nr	0	223	
4P.17	Total number of raw water transfer stations	nr	0	2	
4P.18	Total capacity of intake and source pumping stations	kW	0	34820	Average data used for approx 10% of assets
4P.19	Total capacity of raw water transfer pumping stations	kW	0	951	Average data used for approx 10% of assets
4P.20	Total length of raw water mains and conveyors	km	2	137.15	
4P.21	Average pumping head – resources	m.hd	2	33.52	
4P.22	Average pumping head – raw water transport	m.hd	2	1.14	Reduction in value as review of raw water transport pumps undertaken against RAG4.07
<b>B Water treatment</b>					
4P.23	Total water treated at all SW simple disinfection works	MI/d	2	0.00	
4P.24	Total water treated at all SW1 works	MI/d	2	0.00	
4P.25	Total water treated at all SW2 works	MI/d	2	0.00	
4P.26	Total water treated at all SW3 works	MI/d	2	64.16	
4P.27	Total water treated at all SW4 works	MI/d	2	9.34	
4P.28	Total water treated at all SW5 works	MI/d	2	105.87	
4P.29	Total water treated at all SW6 works	MI/d	2	0.00	
4P.30	Total water treated at all GW simple disinfection works	MI/d	2	25.17	
4P.31	Total water treated at all GW1 works	MI/d	2	0.00	
4P.32	Total water treated at all GW2 works	MI/d	2	33.87	
4P.33	Total water treated at all GW3 works	MI/d	2	12.97	
4P.34	Total water treated at all GW4 works	MI/d	2	223.60	
4P.35	Total water treated at all GW5 works	MI/d	2	70.63	
4P.36	Total water treated at all GW6 works	MI/d	2	0.00	
4P.37	Total water treated at more than one type of works	MI/d	2	0.00	
4P.38	Total number of SW simple disinfection works	nr	0	0	
4P.39	Total number of SW1 works	nr	0	0	
4P.40	Total number of SW2 works	nr	0	0	
4P.41	Total number of SW3 works	nr	0	3	
4P.42	Total number of SW4 works	nr	0	2	
4P.43	Total number of SW5 works	nr	0	4	
4P.44	Total number of SW6 works	nr	0	0	
4P.45	Total number of GW simple disinfection works	nr	0	11	
4P.46	Total number of GW1 works	nr	0	0	
4P.47	Total number of GW2 works	nr	0	8	
4P.48	Total number of GW3 works	nr	0	8	
4P.49	Total number of GW4 works	nr	0	44	
4P.50	Total number of GW5 works	nr	0	11	
4P.51	Total number of GW6 works	nr	0	0	
4P.52	Number of treatment works requiring remedial action because of raw water deterioration	nr	0	6	
4P.53	Zonal population receiving water treated with orthophosphate	000	3	2367.504	
4P.54	Average pumping head – treatment	m.hd	2	14.35	

## 4P - Non-financial data for WR, WT and WD - Wholesale water

Southern Water

For the 12 months ended 31 March 2018

Line	Line description	Units	DPs	Current year	Company commentary (if required)
<b>C Water distribution</b>					
4P.55	Total length of potable mains as at 31 March	km	1	13905.1	
4P.56	Total length of mains relined	km	1	0.0	
4P.57	Total length of mains renewed	km	1	32.1	
4P.58	Total length of new mains	km	1	35.0	
4P.59	Potable water mains (<320mm)	km	1	12458.3	
4P.60	Potable water mains 320mm - 450mm	km	1	534.5	
4P.61	Potable water mains 450mm - 610mm	km	1	529.8	
4P.62	Potable water mains > 610mm	km	1	140.4	
4P.63	Total length of non-potable and partially treated main for supplying customers	km	1	18.6	
4P.64	Total length of non-potable and partially treated main for treatment	km	1	0.6	
4P.65	Capacity of booster pumping stations	kW	0	30882	
4P.66	Capacity of service reservoirs	MI	0	1123	
4P.67	Capacity of water towers	MI	0	6	
4P.68	Distribution input	MI/d	2	541.00	
4P.69	Water delivered (non-potable)	MI/d	2	2.98	
4P.70	Water delivered (potable)	MI/d	2	463.93	
4P.71	Water delivered (billed measured residential)	MI/d	2	273.97	
4P.72	Water delivered (billed measured business)	MI/d	2	113.51	
4P.73	Total leakage	MI/d	2	88.68	
4P.74	Distribution losses	MI/d	2	74.01	
4P.75	Water taken unbilled	MI/d	2	12.36	
4P.76	Number of lead communication pipes	nr	0	139997	
4P.77	Number of galvanised iron communication pipes	nr	0	129578	
4P.78	Number of other communication pipes	nr	0	631076	
4P.79	Number of booster pumping stations	nr	0	174	
4P.80	Total number of service reservoirs	nr	0	207	Increase on previous years because some sites were combined in the count.
4P.81	Number of water towers	nr	0	8	
4P.82	Total length of mains laid or structurally refurbished pre-1880	km	1	1785.5	
4P.83	Total length of mains laid or structurally refurbished between 1881 and 1900	km	1	739.4	
4P.84	Total length of mains laid or structurally refurbished between 1901 and 1920	km	1	1450.8	
4P.85	Total length of mains laid or structurally refurbished between 1921 and 1940	km	1	1417.2	
4P.86	Total length of mains laid or structurally refurbished between 1941 and 1960	km	1	888.1	
4P.87	Total length of mains laid or structurally refurbished between 1961 and 1980	km	1	3410.8	
4P.88	Total length of mains laid or structurally refurbished between 1981 and 2000	km	1	2952.0	
4P.89	Total length of mains laid or structurally refurbished post 2001	km	1	1261.4	
4P.90	Average pumping head – distribution	m.hd	2	111.53	
<b>D Band Disclosure (nr)</b>					
4P.91	WTWs in size band 1	Nr	0	36	
4P.92	WTWs in size band 2	Nr	0	14	
4P.93	WTWs in size band 3	Nr	0	19	
4P.94	WTWs in size band 4	Nr	0	17	
4P.95	WTWs in size band 5	Nr	0	2	
4P.96	WTWs in size band 6	Nr	0	3	
4P.97	WTWs in size band 7	Nr	0	0	
4P.98	WTWs in size band 8	Nr	0	0	
<b>E Band Disclosure (%)</b>					
4P.99	Proportion of Total DI band 1	%	1	4.7%	
4P.100	Proportion of Total DI band 2	%	1	7.2%	
4P.101	Proportion of Total DI band 3	%	1	18.6%	
4P.102	Proportion of Total DI band 4	%	1	35.2%	
4P.103	Proportion of Total DI band 5	%	1	8.4%	
4P.104	Proportion of Total DI band 6	%	1	26.0%	
4P.105	Proportion of Total DI band 7	%	1	0.0%	
4P.106	Proportion of Total DI band 8	%	1	0.0%	

**4Q - Non-financial data - Properties, population and other - Wholesale water**

Southern Water

For the 12 months ended 31 March 2018

Line description	Units	DPs	Current year	Company commentary (if required)
<b>A Properties and population</b>				
4Q.1 Residential properties billed for measured water (external meter)	000	3	777.388	Greater than expected increase in HH and decrease in NHH due to reclassification based on market separation. CMOS data no longer identifies individual connections.
4Q.2 Residential properties billed for measured water (not external meter)	000	3	109.333	Greater than expected increase in HH and decrease in NHH due to reclassification based on market separation. CMOS data no longer identifies individual connections.
4Q.3 Business properties billed measured water	000	3	49.837	Greater than expected increase in HH and decrease in NHH due to reclassification based on market separation. CMOS data no longer identifies individual connections.
4Q.4 Residential properties billed for unmeasured water	000	3	127.243	Greater than expected increase in HH and decrease in NHH due to reclassification based on market separation. CMOS data no longer identifies individual connections.
4Q.5 Business properties billed unmeasured water	000	3	4.146	Greater than expected increase in HH and decrease in NHH due to reclassification based on market separation. CMOS data no longer identifies individual connections.
4Q.6 Total business connected properties at year end	000s	3	57.834	
4Q.7 Total residential connected properties at year end	000s	3	1056.326	
4Q.8 Total connected properties at year end	000	3	1114.160	
4Q.9 Number of residential meters renewed	000	3	3.018	
4Q.10 Number of business meters renewed	000s	3	0.246	
4Q.11 Number of meters installed at request of optants	000	3	0.712	
4Q.12 Number of selective meters installed	000	3	0.988	
4Q.13 Total number of new business connections	000	3	0.582	
4Q.14 Total number of new residential connections	000	3	7.261	
4Q.15 Total population served	000	3	2526.756	
4Q.16 Number of business meters (billed properties)	000	3	49.837	
4Q.17 Number of residential meters (billed properties)	000	3	883.193	
4Q.18 Company area	km2	0	10530	
<b>B Other</b>				
4Q.19 Number of lead communication pipes replaced for water quality	nr	0	41	
4Q.20 Total supply side enhancements to the supply demand balance (dry year critical / peak conditions)	MI/d	2	4.70	
4Q.21 Total supply side enhancements to the supply demand balance (dry year annual average conditions)	MI/d	2	4.70	
4Q.22 Total demand side enhancements to the supply demand balance (dry year critical / peak conditions)	MI/d	2	0.24	
4Q.23 Total demand side enhancements to the supply demand balance (dry year annual average conditions)	MI/d	2	0.24	
4Q.24 Energy consumption - network plus	kWh	0	123919	Amended units from kWh to MWh as per Ofwat email 03.07.18
4Q.25 Energy consumption - water resources	MWh	0	39751	Increase compared to 2016/17 due to refilling Bewl Water at Yalding SWA and Smallbridge SWA.
4Q.26 Energy consumption - wholesale	MWh	0	163670	
4Q.27 Peak factor	%	2	1.18%	
4Q.28 Mean Zonal Compliance	%	2	99.96%	
4Q.29 Volume of Leakage above or below the sustainable economic Level	MI	3	1.580	

**4R - Non-financial data - Wastewater network and sludge - Wholesale wastew**

Southern Water

For the 12 months ended 31 March 2018

Line	Item description	Unit	DPs	Current year	Company commentary (if required)
<b>A Wastewater network</b>					
4R.1	Connectable properties served by s101A schemes completed in the report year	nr	0	0	
4R.2	Number of s101A schemes completed in the report year	Nr	0	0	
4R.3	Total pumping station capacity	kW	0	130149	Increase from 2016/17 as a result of improved data
4R.4	Number of network pumping stations	nr	0	3321	Increase from 2016/17 due to private pumping stations being registered
4R.5	Total number of sewer blockages	nr	0	19478	
4R.6	Total number of gravity sewer collapses	nr	0	143	
4R.7	Total number of sewer rising main bursts / collapses	nr	0	91	
4R.8	Number of combined sewer overflows	nr	0	791	Reduction from 2016/17 in numbers due to permit revocations
4R.9	Number of emergency overflows	nr	0	148	Reduction from 2016/17 in numbers due to permit revocations
4R.10	Number of settled storm overflows	nr	0	216	Reduction from 2016/17 in numbers due to permit revocations
4R.11	Sewer age profile (constructed post 2001)	km	0	1891	
4R.12	Volume of trade effluent	Ml/yr	2	4472.20	The base data is supplied by CMOS and is reliant on Retailer performance for its accuracy.
4R.13	Volume of wastewater receiving treatment at sewage treatment works	Ml/yr	2	421781.00	
4R.14	Length of gravity sewers rehabilitated	km	0	10	
4R.15	Length of rising mains replaced or structurally refurbished	km	0	5	
4R.16	Length of foul (only) public sewers	km	0	12890	
4R.17	Length of surface water (only) public sewers	km	0	5106	
4R.18	Length of combined public sewers	km	0	2487	
4R.19	Length of rising mains	km	0	1503	
4R.20	Length of other wastewater network pipework	Km	0	91	
4R.21	Total length of "legacy" public sewers as at 31 March	Km	0	22077	
4R.22	Length of formerly private sewers and lateral drains (s105A sewers)	km	0	17464	
<b>B Sludge</b>					
4R.23	Total sewage sludge produced, treated by incumbents	ttds/ year	1	119.0	
4R.24	Total sewage sludge produced, treated by 3rd party sludge service provider	ttds/ year	1	0.0	
4R.25	Total sewage sludge produced	ttds/ year	1	119.0	
4R.26	Percentage of sludge produced and treated at a site of STW and STC co-location	%	2	70.10%	
4R.27	Total sewage sludge disposed by incumbents	ttds/ year	1	65.0	
4R.28	Total sewage sludge disposed by 3rd party sludge service provider	ttds/ year	1	0.0	
4R.29	Total sewage sludge disposed	ttds/ year	1	65.0	
4R.30	Total measure of intersiting 'work' done by pipeline	ttds*km/year	0	7	
4R.31	Total measure of intersiting 'work' done by tanker	ttds*km/year	0	785	
4R.32	Total measure of intersiting 'work' done by truck	ttds*km/year	0	1248	
4R.33	Total measure of intersiting 'work' done (all forms of transportation)	ttds*km/year	0	2040	This total doesn't include our barge operation - 28 ttds*km/year
4R.34	Total measure of intersiting 'work' done by tanker (by volume transported)	m3*km/year	0	21369752	
4R.35	Total measure of 'work' done in sludge disposal operations by pipeline	ttds*km/year	0	0	
4R.36	Total measure of 'work' done in sludge disposal operations by tanker	ttds*km/year	0	0	
4R.37	Total measure of 'work' done in sludge disposal operations by truck	ttds*km/year	0	2656	
4R.38	Total measure of 'work' done in sludge disposal operations (all forms of transportation)	ttds*km/year	0	2656	
4R.39	Total measure of 'work' done by tanker in sludge disposal operations (by volume transported)	m3*km/year	0	0	
4R.40	Chemical P sludge as percentage of sludge produced at STWs	%	2	21.90%	

### 4S - Non-financial data - sewage treatment - Wholesale wastewater

For the 12 months ended 31 March 2018

Line description	Unit	DPs	Treatment categories								Total
			Primary	Secondary		Tertiary					
				Activated Sludge	Biological	A1	A2	B1	B2		
<b>A Load received at sewage treatment works in 2017-18</b>											
4S.1	Load received by STWs in size band 1	kg BOD <sub>5</sub> /day	0	6	147	239	104	13	97	0	605
4S.2	Load received by STWs in size band 2	kg BOD <sub>5</sub> /day	0	0	272	121	60	65	206	26	750
4S.3	Load received by STWs in size band 3	kg BOD <sub>5</sub> /day	0	0	566	1691	324	612	1242	1679	6115
4S.4	Load received by STWs in size band 4	kg BOD <sub>5</sub> /day	0	0	1146	5531	587	2385	2618	10232	22499
4S.5	Load received by STWs in size band 5	kg BOD <sub>5</sub> /day	0	0	2051	1307	0	2253	0	14691	20302
4S.6	Load received by STWs above size band 5	kg BOD <sub>5</sub> /day	0	0	117595	13318	7882	77154	2528	27448	245923
4S.7	Total load received	kg BOD <sub>5</sub> /day	0	6	121776	22205	8957	82483	6691	54076	296195
4S.8	Load received from trade effluent customers at treatment works	kg BOD <sub>5</sub> /day	0								8242

<b>B Number of sewage treatment works at 31 March 2018</b>											
4S.9	STWs in size band 1	nr	0	4	27	48	11	1	9	0	100
4S.10	STWs in size band 2	nr	0	0	13	6	3	3	9	1	35
4S.11	STWs in size band 3	nr	0	0	7	24	5	9	22	23	90
4S.12	STWs in size band 4	nr	0	0	4	21	2	7	11	32	77
4S.13	STWs in size band 5	nr	0	0	2	2	0	2	0	14	20
4S.14	STWs above size band 5	nr	0	0	17	3	2	13	1	7	43
4S.15	Total number of works	nr	0	4	70	104	23	35	52	77	365

Line description	Unit	DPs	Current year
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<b>C Population equivalent</b>				
4S.16	Current population equivalent served by STWs	000	3	4870.030
4S.17	Current population equivalent served by discharge relocation schemes	000s	3	0.000
4S.18	Current population equivalent served by filter bed STWs with tightened/new P consents	000s	3	105.815
4S.19	Current population equivalent served by activated sludge STWs with tightened/new P consents	000s	3	0.000
4S.20	Current population equivalent served by groundwater protection schemes	000s	3	1.454
4S.21	Current population equivalent served by STWs with a Flow1 driver scheme	000s	3	0.000
4S.22	Current population equivalent served by STWs with tightened/new N consents	000s	3	1.454
4S.23	Current population equivalent served by STWs with tightened/new sanitary parameter consents	000s	3	50.172
4S.24	Current population equivalent served by STWs with tightened/new UV consents	000s	3	0.000
4S.25	Population equivalent treatment capacity enhancement	000s	3	9.880

### 4S - Non-financial data - sewage treatment - Wholesale wastewater

For the 12 months ended 31 March 2018

Line description	Unit	DPs	Treatment works consents											
			Phosphorus					BOD <sub>5</sub>						
			<=0.5mg/l	>0.5 to <=1mg/l	>1mg/l	No permit	Total	<=7mg/l	>7 to <=10mg/l	>10 to <=20mg/l	>20mg/l	No permit	Total	
<b>A Load received at sewage treatment works in 2017-18</b>														
4S.1	Load received by STWs in size band 1	kg BOD <sub>5</sub> /day	0	0	0	13	592	605	0	7	78	175	345	605
4S.2	Load received by STWs in size band 2	kg BOD <sub>5</sub> /day	0	0	0	91	659	750	0	38	353	327	33	750
4S.3	Load received by STWs in size band 3	kg BOD <sub>5</sub> /day	0	0	1234	552	4329	6115	65	884	3151	2015	0	6115
4S.4	Load received by STWs in size band 4	kg BOD <sub>5</sub> /day	0	0	4715	948	16836	22499	481	5848	9117	7053	0	22499
4S.5	Load received by STWs in size band 5	kg BOD <sub>5</sub> /day	0	0	4813	0	15489	20302	1953	4804	4535	7822	1186	20301
4S.6	Load received by STWs above size band 5	kg BOD <sub>5</sub> /day	0	6378	18910	0	220635	245923	5527	12711	25565	117327	84792	245923
4S.7	Total load received	kg BOD <sub>5</sub> /day	0	6378	29673	1604	258540	296195	8027	24292	42798	134720	86357	296194
4S.8	Load received from trade effluent customers at treatment works	kg BOD <sub>5</sub> /day	0											

<b>B Number of sewage treatment works at 31 March 2018</b>														
Line description	Unit	DPs	<=0.5mg/l	>0.5 to <=1mg/l	>1mg/l	No permit	Total	<=7mg/l	>7 to <=10mg/l	>10 to <=20mg/l	>20mg/l	No permit	Total	
4S.9	STWs in size band 1	nr	0	0	1	99	100	0	1	8	23	68	100	
4S.10	STWs in size band 2	nr	0	0	4	31	35	0	2	15	16	2	35	
4S.11	STWs in size band 3	nr	0	15	10	65	90	1	13	47	29	0	90	
4S.12	STWs in size band 4	nr	0	18	4	55	77	2	17	33	25	0	77	
4S.13	STWs in size band 5	nr	0	4	0	16	20	2	5	4	8	1	20	
4S.14	STWs above size band 5	nr	0	1	5	37	43	2	4	7	18	12	43	
4S.15	Total number of works	nr	0	1	42	19	303	365	7	42	114	119	83	365

Line description	Unit	DPs
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<b>C Population equivalent</b>			
4S.16	Current population equivalent served by STWs	000	3
4S.17	Current population equivalent served by discharge relocation schemes	000s	3
4S.18	Current population equivalent served by filter bed STWs with tightened/new P consents	000s	3
4S.19	Current population equivalent served by activated sludge STWs with tightened/new P consents	000s	3
4S.20	Current population equivalent served by groundwater protection schemes	000s	3
4S.21	Current population equivalent served by STWs with a Flow1 driver scheme	000s	3
4S.22	Current population equivalent served by STWs with tightened/new N consents	000s	3
4S.23	Current population equivalent served by STWs with tightened/new sanitary parameter consents	000s	3
4S.24	Current population equivalent served by STWs with tightened/new UV consents	000s	3
4S.25	Population equivalent treatment capacity enhancement	000s	3



## 4T - Non-financial data - sludge treatment - Wholesale wastewater

Southern Water

For the 12 months ended 31 March 2018

Line	Item description	Unit	DPs	by Incumbent	by 3rd party sludge service providers	Company commentary (if required)
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A		Sludge treatment process				
4T.1	% Sludge - untreated	%	1	0.0%	0.0%	
4T.2	% Sludge treatment process - raw sludge liming	%	1	0.0%	0.0%	
4T.3	% Sludge treatment process - conventional AD	%	1	100.0%	0.0%	
4T.4	% Sludge treatment process- advanced AD	%	1	0.0%	0.0%	
4T.5	% Sludge treatment process - incineration of raw sludge	%	1	0.0%	0.0%	
4T.6	% Sludge treatment process - incineration of digested sludge	%	1	0.0%	0.0%	
4T.7	% Sludge treatment process - phyto-conditioning/composting	%	1	0.0%	0.0%	
4T.8	% Sludge treatment process - other (specify)	%	1	0.0%	0.0%	
4T.9	% Sludge treatment process - Total	%	1	100.0%	0.0%	

B		(Un-incinerated) sludge disposal route				
4T.10	% Sludge disposal route - landfill, raw	%	1	0.0%	0.0%	
4T.11	% Sludge disposal route - landfill, partly treated	%	1	0.0%	0.0%	
4T.12	% Sludge disposal route - land restoration / reclamation	%	1	0.0%	0.0%	
4T.13	% Sludge disposal route - sludge recycled to farmland	%	1	100.0%	0.0%	
4T.14	% Sludge disposal route - other (specify)	%	1	0.0%	0.0%	
4T.15	% Sludge disposal route - Total	%	1	100.0%	0.0%	



## 4U - Non-financial data - Properties, population and other

Southern Water

For the 12 months ended 31 March 2018

Line	Item description	Unit	DPS	Current year	Company commentary (if required)
<b>A</b>	<b>Properties and population</b>				
4U.1	Residential properties connected during the year	000	3	9.170	
4U.2	Business properties connected during the year	000	3	0.861	Decrease in NHH due to reclassification based on market separation.
4U.3	Residential properties billed unmeasured sewage	000	3	399.783	
4U.4	Residential properties billed measured sewage	000	3	1427.452	Decrease in NHH due to reclassification based on market separation.
4U.5	Residential properties billed for sewage	000	3	1827.235	
4U.6	Business properties billed unmeasured sewage	000	3	7.550	
4U.7	Business properties billed measured sewage	000	3	75.966	
4U.8	Business properties billed for sewage	000	3	83.516	
4U.9	Void properties	000	3	67.381	
4U.10	Total number of properties	000s	3	1978.132	
4U.11	Resident population	000	3	4567.879	
4U.12	Non-resident population	000	3	66.530	
<b>B</b>	<b>Other</b>				
4U.13	Energy consumption - network plus	MWh	3	285344.466	Rail travel has not been included or renewable heat used from CHP engines (unmeasured so unable to include)
4U.14	Energy consumption - sludge	MWh	3	59598.167	
4U.15	Energy consumption - wholesale	MWh	3	344942.633	
4U.16	Population resident in National Parks, SSSIs and Areas of Outstanding Natural Beauty (AONBs)	000s	3	362.309	Includes 12886 commercial properties x average 2.4 population
4U.17	Total sewerage catchment area	km2	0	1527	
4U.18	Designated bathing waters	nr	0	83	
4U.19	Number of intermittent discharge sites with event duration monitoring	nr	0	79	
4U.20	Number of monitors for flow monitoring at STWs	Nr	0	0	
4U.21	Number of odour related complaints	nr	0	1579	
4U.22	Volume of storage provided at CSOs, storm tanks, etc to meet spill frequency objectives	m3	0	0	
4U.23	Total volume of network storage	m3	0	1817985	A small amount of our sewer network is unmapped; where this is the case, diameter has been estimated as 150mm to calculate volume

## 4V - Operating cost analysis - water resources

Southern Water

For the 12 months ended 31 March 2018

Line	Item description	Unit	DPs	Impounding Reservoir	Pumped Storage	River Abstractions	Groundwater, excluding MAR water supply schemes	Artificial Recharge (AR) water supply schemes	Aquifer Storage and Recovery (ASR) water supply schemes	Total	Company commentary (if required)
<b>Water resources</b>											
<b>A Opex analysis</b>											
4V.1	Power	£m	3	0.240	0.000	1.052	2.747	0.000	0.000	4.039	
4V.2	Income Treated as negative expenditure	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
4V.3	Local authority and Cumulo rates	£m	3	0.036	0.009	0.498	0.343	0.000	0.000	0.886	
4V.4	Other direct operating expenditure	£m	3	0.292	0.138	6.667	3.270	0.000	0.000	10.367	
4V.5	Other indirect operating expenditure	£m	3	0.039	0.010	0.564	0.436	0.000	0.000	1.049	
4V.6	Total operating expenditure (excluding 3rd party)	£m	3	0.607	0.157	8.781	6.796	0.000	0.000	16.341	
4V.7	Depreciation	£m	3	0.970	0.000	1.186	1.409	0.000	0.000	3.565	
4V.8	Total operating costs (excluding 3rd party)	£m	3	1.577	0.157	9.967	8.205	0.000	0.000	19.906	This total will not reconcile to 4D.9 as 4D is a totex table and therefore does not include the depreciation charge

Line	Item description	Unit	DPs	Water resources	Raw water distribution	Water treatment	Treated water distribution	Total
<b>B Other expenditure - wholesale water</b>								
4V.9	Employment costs - directly allocated	£m	3	1.047	0.000	11.494	10.065	22.606
4V.10	Employment costs - indirectly allocated	£m	3	0.301	0.000	3.732	3.126	7.159
4V.11	Number FTEs consistent with 4V.9 above	Nr	0	18	0	221	185	424.000
4V.12	Number FTEs consistent with 4V.10 above	Nr	0	5	0	56	47	108.000
4V.13	Costs associated with Traffic Management Act	£m	3	0.000	0.000	0.000	1.660	1.660
<b>C Service charges</b>								
4V.14	Canal & River Trust service charges and discharge consents	£m	3	0.000	0.000	0.000	0.000	0.000
4V.15	Environment Agency service charges/ discharge consents	£m	3	4.974	0.000	0.065	0.000	5.039
4V.16	Other service charges / permits	£m	3	0.000	0.000	0.000	0.000	0.000
4V.17	Statutory water softening	£m	3	0.000	0.000	0.000	0.000	0.000

4W - Operating cost analysis - sludge treatment

Southern Water

For the 12 months ended 31 March 2018

Line	Item description	Unit	DPs	Untreated sludge	Raw sludge liming	Conventional AD	Advanced AD	Incineration of raw sludge	Incineration of digested Sludge	Photo-conditioning / composting	Other	Total	Company commentary (if required)
<b>Sludge treatment opex by treatment type</b>													
<b>A Sludge treatment type</b>													
4W.1	Power	£m	3	0.000	0.000	-2.769	0.000	0.000	0.000	0.000	0.000	-2.769	
4W.2	Income treated as negative expenditure	£m	3	0.000	0.000	-3.559	0.000	0.000	0.000	0.000	0.000	-3.559	
4W.3	Local authority and Cumulo rates	£m	3	0.000	0.000	1.434	0.000	0.000	0.000	0.000	0.000	1.434	
4W.4	Other direct operating expenditure	£m	3	0.000	0.000	10.462	0.000	0.000	0.000	0.000	0.000	10.462	
4W.5	Other indirect operating expenditure	£m	3	0.000	0.000	4.879	0.000	0.000	0.000	0.000	0.000	4.879	
4W.6	Total operating expenditure (excluding 3rd party)	£m	3	0.000	0.000	10.447	0.000	0.000	0.000	0.000	0.000	10.447	
4W.7	Depreciation	£m	3	0.000	0.000	19.964	0.000	0.000	0.000	0.000	0.000	19.964	
4W.8	Total operating costs (excluding 3rd party)	£m	3	0.000	0.000	30.411	0.000	0.000	0.000	0.000	0.000	30.411	This total will not reconcile to 4E.9 as 4E is a totex table and therefore does not include the depreciation charge

<b>B Sludge disposal route</b>													
4W.9	Power	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
4W.10	Income treated as negative expenditure	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
4W.11	Local authority and Cumulo rates	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
4W.12	Other direct operating expenditure	£m	3	0.000	0.000	4.134	0.000	0.000	0.000	0.000	0.000	4.134	
4W.13	Other indirect operating expenditure	£m	3	0.000	0.000	0.510	0.000	0.000	0.000	0.000	0.000	0.510	
4W.14	Total operating expenditure (excluding 3rd party)	£m	3	0.000	0.000	4.644	0.000	0.000	0.000	0.000	0.000	4.644	
4W.15	Depreciation	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
4W.16	Total operating costs (excluding 3rd party)	£m	3	0.000	0.000	4.644	0.000	0.000	0.000	0.000	0.000	4.644	

Other expenditure - Wholesale wastewater

Line	Item description	Unit	DPs	Network plus sewage collection	Network plus sewage treatment	Sludge	Total
<b>C Opex analysis</b>							
4W.17	Employment costs - directly allocated	£m	3	16.477	24.174	4.049	44.700
4W.18	Employment costs - indirectly allocated	£m	3	8.126	8.819	1.808	18.753
4W.19	Number FTEs consistent with line 4W.17	Nr	0	481	522	107	1110
4W.20	Number FTEs consistent with line 4W.18 above	Nr	0	122	133	27	282
4W.21	Costs associated with Traffic Management Act	£m	3	0.184	0.000	0.000	0.184
4W.22	Costs associated with Industrial Emissions Directive	£m	3	0.000	0.000	0.000	0.000
<b>D Service charges</b>							
4W.23	Canal & River Trust service charges and discharge consents	£m	3	0.000	0.000	0.000	0.000
4W.24	Environment Agency service charges / discharge consents	£m	3	0.782	2.401	0.001	3.184
4W.25	Other service charges / permits	£m	3	0.000	0.000	0.000	0.000



## Bidding activity: bioresources market

Southern Water

For the 12 months ended 31 March 2018

Line	Item description	Units	DPs	Current year
<b>A Summary of market activity</b>				
A1	Total number of contracts held with a third party at end of the financial year	nr	0	5
A2	Total amount paid on contracts during the financial year	£000	3	9898.000
A3	Number of different suppliers at the year end	nr	0	3
A4	Number of contracts ended during the year	nr	0	1
A5	Number of contracts renewed during the year	nr	0	1
A6	Number of new contracts that have been agreed during the year	nr	0	0
<b>B Formal tender process</b>				
B1	Number of formal tenders you issued during the year	nr	0	0
B2	Total number of bids received on all your tenders	nr	0	0
B3	Number of tenders you awarded during the year	nr	0	0
<b>C Informal bidding process</b>				
C1	Number of offers made by a third party outside the formal tender process during the financial year	nr	0	0
C2	The number of successful offers	nr	0	0
<b>D Treatment of sludge</b>				
D1	Total quantity of sludge produced in performance of the company's functions as a sewerage undertaker	ttds/ year	2	118.67
D2	Quantity of sludge treated in-house	ttds/ year	2	118.67
D3	Quantity of sludge treated by a third party	ttds/ year	2	0.00
D4	Number of contracts to provide sludge treatment	nr	0	0
D5	Number of suppliers with contracts for sludge treatment	nr	0	0
<b>E Sludge transported</b>				
E1	Total quantity of sludge transported by road	ttds/ year	2	58.58
E2	Quantity of sludge transported by road in-house by your own bioresources service	ttds/ year	2	0.00
E3	Quantity of sludge transported by road by a third party	ttds/ year	2	58.58
E4	Number of contracts to provide sludge transport services	nr	0	2
E5	Number of suppliers with contracts for sludge transportation	nr	0	2
<b>F Sludge recycled or disposed</b>				
F1	Total quantity of sludge recycled or disposed	ttds/ year	2	65.45
F2	Quantity of sludge recycled or disposed in-house by your own bioresources service	ttds/ year	2	0.00
F3	Quantity of sludge recycled by a third party	ttds/ year	2	65.45
F4	Number of contracts held to provide sludge recycling or disposal services	nr	0	1
F5	Number of suppliers with contracts for sludge recycling or disposal	nr	0	1