

# Commentary for Cost Assessment Tables

15 July 2019



## Introduction

This commentary accompanies the cost assessment data return of SSC submitted on 15<sup>th</sup> July 2019 covering the financial year 2018/19.

For any queries on this data return, please contact the following via email:

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## The combined entity of South Staffs Cambridge (SSC)

This data submission of SSC is a combined submission for its two operating regions, the former independent water only companies of South Staffs Water and Cambridge Water.

We have taken the approach of collecting the cost assessment performance data for each region individually. This ensures that we understand the full audit trail for each data line from each region, as some operational systems and processes remain separate since the merger. The approach also ensures we understand the differences between our two regions that can inform our operational strategy and business planning processes. Once collected at regional level, the majority of the data lines can simply be added together for the two operating regions to arrive at the SSC level value. For example lengths of mains, number of properties, number of treatment works, leakage and distribution input. For those lines which require a proportional input value then we have aggregated the data by using distribution input to determine the proportional value at the SSC level.

### **Assurance**

We recognise the importance of the data supplied in this submission for future cost modelling and therefore we have applied our assurance framework risk assessment process to ensure that we carry sufficient governance.

A summary of the output of our assurance framework for this submission is as follows:

Risk Score												
Likelihood Score	Impact Score	Total Risk Score	Assurance Risk Category									
2	3	6	Medium									

The likelihood score is medium as much of the data uses longstanding definitions that we are familiar with and that our systems and processes are already set up to produce. Often, the data being reported is used internally for asset management purposes as well. Following the business plan submission where we found we had under-reported the number of booster pumping stations as a result of missing a definition change, we have paid extra attention to definitions for all operational data lines this year.

The impact score is high, as this data is an important part of creating industry wide cost assessment models for use at PR19.

Overall the risk score is medium. We have used our external technical auditor, Jacobs, to audit our reporting against the definitions and tracing data back to the source systems and calculations, at a regional level where appropriate. Jacob's assurance statement can be found in our published APR.

As last year we have elected to submit a commentary along with our data submission to explain (briefly where possible) how we have completed each data line. We have included more detail for data lines where we have any concerns about definitions, consistency across the industry, or where we have had to make assumptions.

### **Table commentaries**

# Table 4J: Atypical expenditure by business unit – wholesale water

This table mirrors table 4D apart from providing a means to report atypical items.

We have made an adjustment to line 4J.3 to report abstraction charges gross, and shown the EUIC rebate as an atypical item. As reported last year we are releasing the EUIC rebate into our annual accounts at the rate of one fifth the total rebate per year in AMP6 which is £236k per annum.

In addition, we adjusted lines 4J.26 and 4J.27 to report power and other operating expenditure excluding renewals costs respectively which were incurred as a direct result of the exceptional weather incident (hot/dry summer) in 18/19. These costs were tracked and reported throughout 18/19 which allowed the company to accurately identify the total exceptional incident cost at year end.

We note that line 4J.20 shows a validation error however we have checked and the numbers do reconcile.

### Table 4L: Enhancement expenditure by purpose – wholesale water

The total enhancement expenditure reconciles to table 4D/4J lines 14, 15 and 16.

### Table 4P: Non-financial data for WR, WT and WD – wholesale water

Lines 1 to 8:

We have recorded the distribution input from each of our source works for each year in the return, aggregated for each type of works, and used the total SSC distribution input as the normalising variable. Where a site has not produced any water in the year then it is not contributing to the figures. Note that line 4P.8 is indicating a validation error however the specified cells do total to unity.

Note that we have a large water treatment works located on the River Severn at Hampton Loade. Two points regarding this works:

- 1. It is shared with Severn Trent who pay a contribution towards the annual operating costs and capital costs of the works. Severn Trent's take from the works is downstream of the works within our distribution system, but we have taken the SSC output of the works to be 'net' of Severn Trent's take for the purposes of these lines as our own distribution input value is also net of our bulk exports to Severn Trent from this works. There is a potential however, depending on how the cost models work, that this scenario means that this works is not fully accounted for within our cost assessment, and therefore we suggest this scenario warrants further discussion during cost model development.
- 2. At PR14 and earlier, there was no differentiation between pumped storage and river abstractions. Our Hampton Loade works consists of a river abstraction feeding a pumped storage reservoir, however the works is also capable of direct river abstraction in the event that the pumped

storage reservoir is out of service. We have not used this feature of the works in 2018/19 and so we have allocated the works output entirely to line 2 (pumped storage) and counted it only as a pumped storage works rather than a river abstraction in lines 9 to 11.

Lines 9 to 16:

We do not have any AR, ASR or saline water supply schemes. Please note a potential industry consistency issue with these lines that arose previously — we are reporting the total number of borehole sites, not the number of individual boreholes drilled. A 'site' may contain multiple individual boreholes housed within the same or multiple buildings, or within the grounds of the site. Line 16 is the sum of lines 9 through 15.

Line 17: We have none of this type of works.

Lines 18 and 19: We have one pumped storage reservoir located at Hampton Loade (discussed

above) and one impounding reservoir located at Blithfield, making a total of

two. The combined capacity of these reservoirs is given in line 19.

Line 20: This line is equal to line 16. The definition in RAG 4.08 appears to confuse this

line with line 21. Our reported value in line 20 does not include raw water

transport, which is reported in line 21.

Line 21: This line reports sites which have a raw water transport function to another

location on a different site, for example for further treatment. The number

reported in line 21 is distinct from the number reported in line 20.

Lines 22, 23, 69: We have undertaken a thorough review of pump capacity data for this year's

reporting.

Lines 24 and 27: Line 27 is a new line for 2018/19 and is interacting with the existing line 24.

We have undertaken a review of our categorisation to accommodate this new

line for 2018/19.

Lines 25, 26, 60, 94: We have calculated the average pumping head in accordance with the latest

definition and our reported numbers are consistent with our historical

numbers.

Line 28: This is a new line for 2018/19 which we have completed consistent with our

WRMP.

Lines 29 to 57: We have reviewed the categorisation of our treatment works to the latest

definition and allocated treated water volume accordingly. There are a number of movements across categories due to recent treatment enhancement schemes primarily installation of UV and nitrate removal at

multiple sites.

Line 58: In 2018/19 we have constructed a nitrate plant at Fowlmere to address rising

raw water nitrate levels.

Line 59: Almost all of the water we supply to customers is dosed with orthophosphate.

There is one exception in our Cambridge region where a small hamlet of 174 population, which has no lead supplies, does not receive dosed water under

normal operating conditions.

Lines 61 to 68: Our GIS contains this data for both regions and therefore we are able to

directly obtain this information, including the information on size bands.

Lines 70, 71, 84, 85:

We have undertaken a review of the assets counted in this line and adjusted for one reservoir that was decommissioned this year and four that are now used as contact tanks rather than service reservoirs. The tanks that have changed function are very small in comparison to a typical service reservoir and so have a minimal impact on total storage capacity.

Lines 72 to 79:

These lines are reported consistent with the definitions provided and the historical method of calculation as used in the June Return prior to 2012 and FA returns.

Lines 80 to 82:

As we do not have direct records of the material of customer communication pipes, we have made an estimate based on the age of the main to which it is connected, and used assumptions of the materials installed in particular time periods. We have used the 2011/12 year as a baseline and fixed the number of lead and galvanised communication pipes at that point. In subsequent years we have then reduced the number of lead and galvanised CPs by identifying the number of replacements that have been undertaken either due to water quality compliance failures, at customer request, or through network renewal schemes. This is data we have available in our works management system. We have then increased line 82, the 'other' material category, by the amount that we have replaced and also by the number of new connections we have made, which would all be of modern materials.

Line 83:

This line is now identical to the revised number of booster pumping stations reported as part of business plan query SSC-DD-CA-002 in May 2019. It would not have been appropriate to revert to our previous definition to be consistent with historical APRs when the correct interpretation of the definition (following Ofwat clarifications) was considered.

Lines 86 to 93:

Our GIS contains the date of installation for all mains and fittings, enabling us to directly obtain this age profile.

Lines 95 to 110:

We have categorised our treatment works by their rated maximum production capacity as instructed by RAG 4.08 even though the data tables still show category rating by DI.

### Table 4Q: Non-financial data – properties, population and other – wholesale water

Lines 1 to 17:

We have adopted the latest definitions of residential and business properties which align with the separation of the business retail market.

Please note that we were unsure whether to include a value for lines 4Q.3 and 4Q.5 as we have exited the business retail market and so no longer bill business customers. However clearly as a wholesaler we still supply business customers and use the billing data from the market within other calculations, for example consumption and leakage reporting. We have kept in the value of billed customers that we would have reported had we not been an exited company, which can be removed at Ofwat's discretion if it is not required.

Line 18:

This value is unchanged from the previous year.

Line 19:

We replace lead CPs either as a result of water quality compliance failures for lead or as a result of a customer request where the customer is also replacing their supply pipe — both of these are covered by the definition of this data

line. We have records within our works management system of these replacements, predominantly driven by customer requests.

In 2017/18 we had no supply side enhancement. Our demand side

enhancement consists of water efficiency activity.

Lines 24 to 26: We have allocated energy consumption on the same basis as power costs are

allocated across business units in table 4D.

Line 27: Since 2015/16 we have reported the combined business MZC as it is one of

our ODIs, which is replicated in this line.

Lines 28 and 29: CRI and ERI are to be confirmed when the DWI publish their annual Chief

Inspectors Report. These values at present are therefore draft based on our

own calculations and liaison with DWI.

Line 30: We have added together the variances to SELL for each region to populate

this data line. Note however that the two regions are independent and so

have their own leakage commitments.

### Table 4V: Operating cost analysis – water resources

Lines 20 to 23:

Lines 1 to 11: The total operating expenditure excluding depreciation 4V.11 reconciles with

table 4D line 4D.9.

Lines 12 to 17: The lines have been compiled using the same data sources that feed into our

APR. Direct / Indirect splits manually reviewed in 18/19 to ensure accuracy

with RAGS. Lines 4V.14 – 4V.17 are reported net of capitalisations.

Line 18: Now includes the costs relating to administration of permits under the traffic

management act as well as the cost of the permits themselves. Cost of fines

and inspections not included.

Line 19: We have no Canal & River Trust Services charges or discharge consents.

Line 20: Abstraction attributed to WRE, EA discharge consents attributed to WTM.

Line 21: Remaining discharge consents attributed to WTM.

Line 22: We have no statutory water softening.



J - Atypical expenditure by business unit - Who	olesa	le w	ater						South Staf	fordshire / Cambridge Water	Data validation
r the 12 months ended 31 March 2019			Water re			Netwo	ouls±				
e description	Units	DPs	Abstraction licences	Raw water abstraction	Raw water transport	Raw water storage	Water	Treated water distribution	Total	Company commentary (if required)	Comple
			licences	abstraction	transport	storage	treatment	distribution			
A Operating expenditure (excl. atypicals)											
J.1 Power	£m	3	0.000	2.498	1.142	0.000	0.876	9.960	14.476	0	
J.2 Income treated as negative expenditure	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	
J.3 Abstraction charges/ discharge consents	£m	3	3.074	0.000	0.000	0.000	0.112	0.000	3.186	0	
J.4 Bulk supply	£m	3	0.000	0.010	0.000	0.000	0.030	0.000	0.040	0	
Other operating expenditure											
J.5 - Renewals expensed in year (Infrastructure)	£m	3	0.000	0.000	0.000	0.000	0.000	13.894	13.894	0	
J.6 - Renewals expensed in year (Non-Infrastructure)	£m	3	0.000	0.000	0.000	0.000	0.000	0.493	0.493	0	
J.7 - Other operating expenditure excluding renewals	£m	3	0.000	1.676	0.275	0.003	6.295	18.340	26.589	0	
J.8 Local authority and Cumulo rates	£m	3	0.000	0.171	0.200	0.000	0.422	4.585	5.378	0	
J.9 Total operating expenditure (excluding third party services)	£m	3	3.074	4.355	1.617	0.003	7.735	47.272	64.056	0	
1.10 Third party services	£m	3	0.000	0.008	0.003	0.000	0.689	1.428	2.128	0	
I.11 Total operating expenditure	£m	3	3.074	4.363	1.620	0.003	8.424	48.700	66.184	0	
B Capital expenditure (excl. atypicals)											
1.12 Maintaining the long term capability of the assets - infra	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	
1.13 Maintaining the long term capability of the assets - non-infra	£m	3	0.000	2.490	0.000	0.000	2.965	15.839	21.294	0	
1.14 Other capital expenditure - infra	£m	3	0.000	0.487	0.000	0.000	0.000	9.881	10.368	0	
I.15 Other capital expenditure - non-infra	£m	3	0.000	0.994	0.000	0.000	4.415	4.250	9.659	0	
I.16 Infrastructure network reinforcement	£m	3	0.000	0.000	0.000	0.000	0.000	1.416	1.416	0	
1.17 Total gross capital expenditure excluding third party services	£m	3	0.000	3.971	0.000	0.000	7.380	31.386	42.737	0	
I.18 Third party services	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	
Total gross capital expenditure	£m	3	0.000	3.971	0.000	0.000	7.380	31.386	42.737	0	
J.20 Grants and contributions	£m	3	0.000	0.000	0.000	0.000	2.700	10.395	13.095	0	Table 4J does not equal ta
		_								9	reasoning and reconciliation
J.21 Totex	£m	3	3.074	8.334	1.620	0.003	13.104	69.691	95.826	0	
C Cash expenditure (excl. atypicals)	_	Ι.,	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	
1.22 Pension deficit recovery payments 1.23 Other cash items	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	
	£m £m	3	3.074		1.620	0.000	13.104		95.826	0	
1.24 Totex including cash items	£III	3	3.074	0.334	1.020	0.003	13.104	69.691	95.620	0	
B. Admirat annualitana											
D Atypical expenditure 1.25 Abstraction charges/ discharge consents	C	١ ،	-0.236	0.000	0.000	0.000	0.000	0.000	0.000	- EUIC Rebate	
1.25 Abstraction charges/ discharge consents	£m £m	3	0.000	0.000	0.000	0.000	0.000	0.000	-0.236 0.676	- EUIC Repate - Exceptional Weather Incident (Hot/Dry)	
1.27 Other operating expenditure excluding renewals	£m	3	0.000	0.117	0.000	0.000	0.041	0.465	0.541	- Exceptional Weather Incident (Hot/Dry)	
1.22 Other operating expenditure excluding renewals	£m	3	0.000	0.004	0.000	0.000	0.000	0.000	0.000	- Exceptional Weather Incident (HOVDIY)	
1.29 Item 5	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	
1.30 Item 6	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	
1.31 Item 7	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	
1.32 Item 8	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	
1.33 Item 9	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	
1.33 Item 10	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	
1.35 Total atypical expenditure	£m	3	-0.236	0.000	0.000	0.000	0.000		0.000	0	
Total atypical experiulture	2,111		-0.230	0.121	0.053	0.000	0.194	0.049	0.961	0	
E Total expenditure											
· ·		1									
I.36 Total expenditure	£m	3	2.838	8.455	1.673	0.003	13.298	70.540	96.807		

Key to cells:

Input cell

Calculation cell

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Completion

		_															
			Expenditure in report year									ive expenditure or			port year		
e description	Unit	s DPs	Water res	ources		Netw	ork+			Water re	sources		Netwo				Company commentary (if required)
			Abstraction	Raw water abstraction	Raw water transport	Raw water storage	Water	Treated water distribution	Total	Abstraction licences	Raw water abstraction	Raw water transport	Raw water storage	Water treatment	Treated water distribution	Total	
			licelices	abstraction	transport	Storage	treatment	distribution		licences	abstraction	transport	storage	treatment	distribution		
Enhancement expenditure by purpose																	
1 NEP - Making ecological improvements at abstractions (Habitats Directive, SSSI, NERC, BAPs)	£m	3	0.000	0.748	0.000	0.000	0.000	0.000	0.748	0.000	0.748	0.000	0.000	0.000	0.000	0.748	0.000%
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	0.000	0.000	0.000	0.000	0.000	0.000	0.000%
3 NEP - Invasive Non Native Species	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000%
4 Addressing low pressure	£m	3	0.000	0.000	0.000	0.000	0.000	0.568	0.568	0.000	0.000	0.000	0.000	0.000	0.568	0.568	0.000%
5 Improving taste / odour / colour	£m	3	0.000	0.000	0.000	0.000	0.021	0.000	0.021	0.000	0.000	0.000	0.000	0.021	0.000	0.021	0.000%
6 Meeting lead standards	£m	3	0.000	0.000	0.000	0.000	0.000	0.080	0.080	0.000	0.000	0.000	0.000	0.000	0.080	0.080	0.000%
7 Supply 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	0.000	0.000	0.000	0.000	0.000	0.000	0.000%
8 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	0.000	0.000	0.000	0.000	0.000	0.000	0.000%
9 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	0.000	0.000	0.000	0.000	0.000	0.000	0.000%
.10 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	0.222	0.222	0.000	0.000	0.000	0.000	0.000	0.222	0.222	0.000%
.11 New developments	£m	3	0.000	0.000	0.000	0.000	0.000	6.596	6.596	0.000	0.000	0.000	0.000	0.000	6.596	6.596	0.000%
.12 New connections element of new development (CPs, meters)	£m		0.000	0.000	0.000	0.000	0.000	4.547	4.547	0.000	0.000		0.000	0.000	4.547	4.547	0.000%
.13 Investment to address raw water deterioration (THM, nitrates, Crypto, pesticides, others)	£m	3	0.000	0.719	0.000	0.000	4.394	0.005	5.118	0.000	0.718	0.000	0.000	4.169	0.005	4.892	0.000%
.14 Resilience	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000%
.15 SEMD	£m	3	0.000	0.014	0.000	0.000	0.000	0.854	0.868	0.000	0.014	0.000	0.000	0.000	0.854	0.868	0.000%
.16 NEP - Drinking Water Protected Areas (schemes)	£m	3	0.000	0.000	0.000		0.000		0.000				0.000	0.000		0.000	0.000%
.17 NEP - Water Framework Directive measure	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000%
.18 NEP - Investigations	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000%
.19 Improvements to river flows	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000%
.20 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	2.673	2.673	0.000	0.000	0.000	0.000	0.000	2.673	2.673	0.000%
.21 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	0.002	0.002	0.000	0.000	0.000	0.000	0.000	0.002	0.002	0.000%
.22 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	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000%
.23 Capital expenditure purpose - WATER additional line 1 [Other categories]	£m	3							0.000							0.000	0.000%
.24 Capital expenditure purpose - WATER additional line 2 [Other categories]	£m	3							0.000							0.000	0.000%
.25 Capital expenditure purpose - WATER additional line 3 [Other categories]	£m	3							0.000							0.000	0.000%
.26 Capital expenditure purpose - WATER additional line 4 [Other categories]	£m	3							0.000							0.000	0.000%
.27 Capital expenditure purpose - WATER additional line 5 [Other categories]	£m	3							0.000							0.000	0.000%
.28 Capital expenditure purpose - WATER additional line 6 [Other categories]	£m	3							0.000							0.000	0.000%
.29 Capital expenditure purpose - WATER additional line 7 [Other categories]	£m	3							0.000							0.000	0.000%
.30 Capital expenditure purpose - WATER additional line 8 [Other categories]	£m								0.000							0.000	0.000%
.31 Capital expenditure purpose - WATER additional line 9 [Other categories]	£m	_							0.000							0.000	0.000%
.32 Capital expenditure purpose - WATER additional line 10 [Other categories]	£m								0.000							0.000	0.000%
.33 Capital expenditure purpose - WATER additional line 11 [Other categories]	£m								0.000							0.000	0.000%
34 Capital expenditure purpose - WATER additional line 12 [Other categories]	£m								0.000							0.000	0.000%
.35 Capital expenditure purpose - WATER additional line 12 [Other categories]	£m								0.000							0.000	0.000%
.36 Capital expenditure purpose - WATER additional line 13 [Other categories]	£m	_							0.000							0.000	0.000%
.37 Capital expenditure purpose - WATER additional line 14 [Other categories]	£m								0.000							0.000	0.000%
Oapital experimitare purpose - TYAT ET additional line 13 [Ottlet categories]	LIII	- 3							0.000							0.000	0.000%

4.415

15.547

0.000

0.000

1.481

£m 3

0.000

Key to cells:

Input cell

Calculation cell

4L.38 Total enhancement capital expenditure

21.443

1.481

0.000

0.000

0.000

15.546

21.216

4.189



	n-financial data for WR, WT and WD - Wholesale water				South Staff	ordshire / Cambridge Water	Data validation
	months ended 31 March 2019 Line description	Bon Code	Units	DPs	Current year	Company commentary (if required)	Completion
A	Water resources						
4P.1 4P.2	Proportion of distribution input derived from impounding reservoirs  Proportion of distribution input derived from pumped storage reservoirs	BN4833 BN4834	Propn 0 to 1 Propn 0 to 1	3	0.122 0.329		
4P.3	Proportion of distribution input derived from river abstractions	BN4838	Propn 0 to 1	3	0.000		
4P.4	Proportion of distribution input derived from groundwater works, excluding managed aquifer rechar (MAR) water supply schemes	BN4848	Propn 0 to 1	3	0.549		
4P.5	Proportion of distribution input derived from artificial recharge (AR) water supply schemes  Proportion of distribution input derived from aquifer storage and recovery (ASR) water supp	BN4846	Propn 0 to 1	3	0.000		
4P.6	schemes	BN4847 BN4854	Propn 0 to 1	3	0.000		
4P.7 4P.8	Proportion of distribution input derived from saline abstractions  Proportion of distribution input derived from water reuse schemes	BN4855	Propn 0 to 1 Propn 0 to 1	3	0.000		Total of lines 4P.1 to 4P.8 do not e
4P.9 4P.10	Number of impounding reservoirs	BN4830 BN4849	nr	0	1		
4P.10	Number of pumped storage reservoirs  Number of river abstractions	BN4835	nr	0	1		
4P.12 4P.13	Number of groundwater works excluding managed aquifer recharge (MAR) water supply schemes  Number of artificial recharge (AR) water supply schemes	BN4851 BN4852	nr	0	44		
4P.14	Number of aquifer storage and recovery (ASR) water supply schemes	BN4853	nr	0	0		
4P.15 4P.16	Number of saline abstraction schemes  Total number of sources	BN4856 BN4843	nr	0	0 47		
4P.17	Number of reuse schemes	BN4857	nr	0	0		
4P.18 4P.19	Total number of water reservoirs  Total capacity of water reservoirs	BN10190 BN10191	nr Mi	0	21206		
4P.20	Total number of intake and source pumping stations	W5003	nr	0	47		
4P.21 4P.22	Total number of raw water transport stations  Total capacity of intake and source pumping stations	WR001 W5003CAP	nr kW	0	8444		
4P.23	Total capacity of raw water transfer pumping stations	WR002	kW	0	1694		
4P.24 4P.25	Total length of raw water abstraction mains and other conveyors  Average pumping head – raw water abstraction	BN10290 BN4861	km m.hd	2	15.42 35.27		
4P.26	Average pumping head – raw water transport	BN4862 BN4858	m.hd	2	22.97		
4P.27 4P.28	Total length of raw and pre-treated (non-potable) water transport mains  Water resources capacity (measured using water resources yield)	BN4859	km Ml/d	2	151.86 523.76		
4P.29	Water treatment  Total water treated at all SW simple disinfection works	CPMW0098		2	0.00		
4P.30	Total water treated at all SW1 works	CPMW0104	MI/d	2	0.00		
4P.31 4P.32	Total water treated at all SW2 works Total water treated at all SW3 works	CPMW0110 CPMW0116		2	0.00		
4P.33	Total water treated at all SW4 works	CPMW0165	MI/d	2	0.00		
4P.34 4P.35	Total water treated at all SW5 works  Total water treated at all SW6 works	CPMW0166 CPMW0167		2	230.59		
4P.36	Total water treated at all GW simple disinfection works	CPMW0027	MI/d	2	72.92		
4P.37 4P.38	Total water treated at all GW2 works Total water treated at all GW2 works	CPMW0033 CPMW0039		2	2.79 19.28		
4P.38 4P.39	Total water treated at all GW3 works	CPMW0045	MI/d	2	19.28		
4P.40	Total water treated at all GW4 works	CPMW0185	MI/d	2	78.52		
4P.41 4P.42	Total water treated at all GW5 works Total water treated at all GW6 works	CPMW0197 CPMW0198		2	37.13 0.00		
4P.43	Total water treated at more than one type of works	CPMW001A	MI/d	2	0.00		
4P.44 4P.45	Total number of SW simple disinfection works  Total number of SW1 works	CPMW0015 BN10491	nr	0	0		
4P.46	Total number of SW2 works	BN10490	nr	0	0		
4P.47 4P.48	Total number of SW3 works Total number of SW4 works	BN10590 BN10597	nr	0	0		
4P.49	Total number of SW5 works	BN10597 BN10598	nr	0	2		
4P.50	Total number of SW6 works	BN10599	nr	0	0		
4P.51 4P.52	Total number of GW simple disinfection works  Total number of GW1 works	CPMW0021 BN10791	nr	0	10		
4P.53	Total number of GW2 works	BN10790	nr	0	6		
4P.54 4P.55	Total number of GW3 works Total number of GW4 works	BN10890 BN10897	nr	0	16		
4P.56	Total number of GW5 works	BN10898	nr	0	5		
4P.57	Total number of GW6 works  Number of treatment works requiring remedial action because of raw water deterioration	BN10899 W4005	nr	0	0		
	Number of treatment works requiring remedial action because of raw water deterioration	*********	000	3	1712.638		
4P.58 4P.59	Zonal population receiving water treated with orthophosphate	BN10901					
	Zonal population receiving water treated with orthophosphate  Average pumping head – water treatment	BN10901 BN10902	m.hd	2	2.22		
4P.59	Average pumping head – water treatment  Water distribution	BN10902	m.hd		2.22		
4P.59 4P.60 C 4P.61	Average pumping head – water treatment  Water distribution  Total length of potable mains as at 31 March	BN10902 BN1100	m.hd km	2	2.22 8529.9		
4P.59 4P.60 <b>C</b> 4P.61 4P.62 4P.63	Average pumping head – water treatment  Water distribution Total length of potable mains as at 31 March Total length of potable mains relined Total length of potable mains renewed	BN10902 BN1100 BN1204 BN1200	m.hd	1 1 1	8529.9 0.0 39.4		
4P.59 4P.60 C 4P.61 4P.62 4P.63 4P.64	Average pumping head – water treatment  Water distribution  Total length of potable mains as at 31 March Total length of potable mains refined  Total length of potable mains renewed  Total length of we potable mains renewed	BN1100 BN1204 BN1200 BN1208	m.hd km km km km	1 1 1 1 1	8529.9 0.0 39.4 45.9		
4P.59 4P.60 <b>C</b> 4P.61 4P.62 4P.63	Average pumping head – water treatment  Water distribution  Total length of potable mains as at 31 March  Total length of potable mains reniend  Total length of potable mains renewed  Total length of potable mains renewed  Total length of potable water mains  Total length of potable water mains (<=320mm)  Total length of potable water mains >320mm - <=450mm	BN10902 BN1100 BN1204 BN1200 BN1208 BN14990 BN14890	m.hd km km	1 1 1	2.22 8529.9 0.0 39.4 45.9 7662.0 241.1		
4P.59 4P.60 C 4P.61 4P.62 4P.63 4P.64 4P.65 4P.66 4P.66	Average pumping head – water treatment  Water distribution Total length of potable mains as at 31 March Total length of potable mains relined Total length of potable mains renewed Total length of new potable mains Total length of potable water mains (<=320mm) Total length of potable water mains >320mm - <=450mm Total length of potable water mains >450mm - <=610mm	BN10902  BN1100 BN1204 BN1200 BN1208 BN14990 BN14890 BN14790	m.hd km km km km km km km km	1 1 1 1 1 1 1 1 1 1	2.22 8529.9 0.0 39.4 45.9 7662.0 241.1 303.2		
4P.60 C 4P.61 4P.62 4P.63 4P.64 4P.65 4P.66	Average pumping head – water treatment  Water distribution  Total length of potable mains as at 31 March  Total length of potable mains reniend  Total length of potable mains renewed  Total length of potable mains renewed  Total length of potable water mains  Total length of potable water mains (<=320mm)  Total length of potable water mains >320mm - <=450mm	BN10902  BN1100 BN1204 BN1200 BN1208 BN14990 BN14890 BN14790 BN14690 BN14690	m.hd  km km km km km km	1 1 1 1 1 1 1 1 1	2.22 8529.9 0.0 39.4 45.9 7662.0 241.1		
4P.59 4P.60 C 4P.61 4P.62 4P.63 4P.64 4P.66 4P.66 4P.67 4P.68 4P.69 4P.70	Average pumping head – water treatment  Water distribution Total length of potable mains as at 31 March Total length of potable mains relined Total length of potable mains renewed Total length of potable mains renewed Total length of potable water mains (<320mm) Total length of potable water mains > 320mm - <450mm Total length of potable water mains > 450mm - <660mm Total length of potable water mains > 450mm - <660mm Total length of potable water mains > 610mm Capacity of booster pumping stations Capacity of service reservoirs	BN10902 BN1100 BN1204 BN1208 BN14990 BN14890 BN14890 BN14690	m.hd km	1 1 1 1 1 1 1 1 1 0	2.22 8529.9 0.0 39.4 45.9 7662.0 241.1 303.2 323.4 33615 495		
4P.59 4P.60 C 4P.61 4P.62 4P.63 4P.64 4P.65 4P.66 4P.67 4P.68 4P.69	Average pumping head – water treatment  Water distribution Total length of potable mains as at 31 March Total length of potable mains relined Total length of potable mains renewed Total length of potable water mains renewed Total length of potable water mains (<=320mm) Total length of potable water mains (<=320mm) Total length of potable water mains >320mm -<=450mm Total length of potable water mains >3450mm -<=610mm Total length of potable water mains >350mm -<=610mm Total length of potable water mains > 610mm Total length of potable water mains > 610mm	BN10902  BN1100 BN1204 BN1200 BN1208 BN14990 BN14890 BN14790 BN14690 BN14690 BN117300CA	m.hd km km km km km km km km km	1 1 1 1 1 1 1 1 1 0	2.22 8529.9 0.0 39.4 45.9 7662.0 241.1 303.2 323.4 33615		
4P.59 4P.60 C 4P.61 4P.62 4P.63 4P.64 4P.65 4P.66 4P.67 4P.68 4P.69 4P.70 4P.71 4P.72 4P.73	Average pumping head – water treatment  Water distribution  Total length of potable mains as at 31 March  Total length of potable mains refined  Total length of potable mains renewed  Total length of potable water mains renewed  Total length of potable water mains (<=320mm)  Total length of potable water mains >320mm - <=450mm  Total length of potable water mains >320mm - <=610mm  Total length of potable water mains >340mm - <=610mm  Total length of potable water mains >610mm  Capacity of service reservoirs  Capacity of service reservoirs  Capacity of service reservoirs  Distribution input  Water delivered (non-potable)	BN10902  BN1100 BN1204 BN1208 BN1208 BN14990 BN14890 BN14790 BN14790 BN11090000 BN110900000 BN110900000 BN1109000000 BN11090000000000000000000000000000000000	m.hd  km	1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 2 2 2 2	2.22 8529.9 0.0 39.4 45.9 7662.0 241.1 303.2 323.4 33615 495 10 396.64 0.00		
4P.59 4P.60 C 4P.61 4P.62 4P.63 4P.64 4P.65 4P.66 4P.67 4P.68 4P.69 4P.70 4P.71 4P.72 4P.73	Average pumping head – water treatment  Water distribution Total length of potable mains as at 31 March Total length of potable mains relined Total length of potable mains renewed Total length of potable mains renewed Total length of potable water mains (<=30mm) Total length of potable water mains (<=30mm) Total length of potable water mains > 450mm - <=450mm Total length of potable water mains > 450mm - <=610mm Total length of potable water mains > 610mm Capacity of boxer pumping stations Capacity of view of the vie	BN10002  BN1100 BN1204 BN1200 BN1200 BN1490 BN14890 BN14790 BN14900 BN17500CA BNT1050CA BNT1050C	m.hd  km	1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 2 2 2 2	2.22 8529.9 0.0 39.4 45.9 7662.0 241.1 303.2 323.4 33615 495 10 396.64 0.000 331.38		
4P.59 4P.60 C 4P.61 4P.62 4P.63 4P.65 4P.66 4P.67 4P.68 4P.69 4P.70 4P.71 4P.72 4P.73 4P.74 4P.75	Average pumping head – water treatment  Water distribution Total length of potable mains as at 31 March Total length of potable mains relined Total length of potable mains renewed Total length of potable water mains (<=320mm) Total length of potable water mains (<=320mm) Total length of potable water mains (<=320mm) Total length of potable water mains > 320mm - <=450mm  Total length of potable water mains > 300mm - <=610mm Total length of potable water mains > 300mm - <=610mm Copacity of boster pumping stations  Capacity of variet rumping stations  Capacity of variet rowers  Distribution input Water delivered (inor-potable) Water delivered (polite) measured residential) Water delivered (pilled measured residential) Water delivered (billed measured residential)	BN10902  BN1100 BN1204 BN1200 BN1208 BN14990 BN14990 BN14790 BN14990 BN14790 BN14990 BN14790 BN17900CA BN1790CA BN17	m.hd  km	1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 2 2 2 2	2.22 8529.9 0.0 39.4 45.9 7662.0 241.1 303.2 323.4 33615 495 10 396.64 0.00 77.97		
4P.59 4P.60 C 4P.61 4P.62 4P.63 4P.64 4P.65 4P.66 4P.69 4P.70 4P.71 4P.72 4P.73 4P.74 4P.74 4P.75 4P.76	Average pumping head – water treatment  Water distribution  Total length of potable mains as at 31 March  Total length of potable mains refined  Total length of potable mains renewed  Total length of potable mains renewed  Total length of potable water mains (<=320mm)  Total length of potable water mains >320mm - <450mm  Total length of potable water mains >320mm - <460mm  Total length of potable water mains >320mm - <660mm  Total length of potable water mains >60mm  Total length of potable water mains >60mm  Total length of potable water mains >60mm  Capacity of swoter pumping stations  Capacity of swoter reservoirs  Capacity of vicer reservoirs  Capacity of water towers  Distribution input  Water delivered (potable)  Water delivered (potable)  Water delivered (pilled measured residential)  Water delivered (pilled measured susiness)  Total leakage	BN10902  BN1100 BN1204 BN1205 BN14990 BN14990 BN14990 BN14990 BN14990 BN14990 BN14990 BN14990 BN14990 BN1900CA BN10900CA BN2330 BN2330 BN2330 BN2000 BN2330 BN2000 BN23345	m.hd  km	1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 0 2 2 2 2	2.22 8529.9 0.0 39.4 45.9 7662.0 241.1 303.2 323.4 3615 495 10 396.64 0.00 331.38 99.60 77.97 83.74		
4P.59 4P.60 C 4P.61 4P.62 4P.63 4P.66 4P.66 4P.66 4P.69 4P.71 4P.72 4P.73 4P.74 4P.75 4P.76 4P.76 4P.76 4P.77 4P.78	Average pumping head – water treatment  Water distribution  Total length of potable mains as at 31 March  Total length of potable mains relined  Total length of potable mains renewed  Total length of potable mains renewed  Total length of potable water mains (<=320mm)  Total length of potable water mains >320mm - <=450mm  Total length of potable water mains >320mm - <=610mm  Total length of potable water mains >30mm - <=610mm  Total length of potable water mains >610mm  Total length of potable water mains >610mm  Capacity of booster pumping stations  Capacity of should water	BN110002  BN1100 BN1204 BN1200 BN14890 BN2330 BN2330 BN2200 BN2330 BN2200 BN2330 BN2200 BN2345 BN2340 BN2345	m.hd  km	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	8529.9 0.0 0.0 39.4 45.9 7662.0 241.1 495 10 366.4 0.00 31.38 99.60 79.60 1.46 1.		
4P.59 4P.60 C 4P.61 4P.63 4P.63 4P.66 4P.66 4P.67 4P.68 4P.70 4P.71 4P.73 4P.74 4P.75 4P.77 4P.78 4P.78 4P.78 4P.78 4P.78	Average pumping head – water treatment  Water distribution  Total length of potable mains as at 31 March  Total length of potable mains refined  Total length of potable mains renewed  Total length of potable water mains (<=320mm)  Total length of potable water mains >320mm - <=450mm  Total length of potable water mains >320mm - <=450mm  Total length of potable water mains >320mm - <=610mm  Total length of potable water mains >610mm  Capacity of booster pumping stations  Capacity of variet rowers  Distribution input  Water delivered (non-potable)  Water delivered (non-potable)  Water delivered (potable)  Water delivered (filled measured business)  Total length of potable water mains > 610mm  Total length of potable water mains > 610mm  Capacity of service reservoirs  Capacity of service reservoirs  Capacity of service reservoirs  Capacity of service reservoirs  Total length of potable water delivered (non-potable)  Water delivered (non-potable)  Water delivered (potable)  Water delivered (billed measured business)  Total length of potable water mains > 610mm  Total length of potable water mains > 610mm  Total length of potable water mains > 610mm  Capacity of service reservoirs  Capacity of servi	BN11002  BN1100 BN1204 BN1208 BN14990 BN14890 BN14890 BN14690 BN14790 BN1690 BN1900000 BN2330 BN2300 BN2200 BN22010 BN22010 BN2340 BN2340 BN2340 BN2327	m.hd km	2 1 1 1 1 1 1 1 1 1 0 0 0 2 2 2 2 2 2 2	2.22 8529.9 0.0 39.4 45.9 7662.0 303.2 333.4 33615 495 10 36.64 0.00 331.38 33		
4P.59 4P.60 C 4P.61 4P.62 4P.63 4P.66 4P.66 4P.66 4P.69 4P.71 4P.72 4P.73 4P.74 4P.75 4P.76 4P.76 4P.76 4P.77 4P.78	Average pumping head – water treatment  Water distribution  Total length of potable mains as at 31 March  Total length of potable mains relined  Total length of potable mains renewed  Total length of potable mains renewed  Total length of potable water mains (<=320mm)  Total length of potable water mains >320mm - <=450mm  Total length of potable water mains >320mm - <=610mm  Total length of potable water mains >30mm - <=610mm  Total length of potable water mains >610mm  Total length of potable water mains >610mm  Capacity of booster pumping stations  Capacity of should water	BN11002  BN1100 BN1204 BN1200 BN1490 BN14990 BN14890 BN14890 BN14990 BN14690 BN14900 BN1200 BN1000 BN2350 BN2000 BN2200 BN2201 BN2340 BN3404 B	m.hd  km	2 1 1 1 1 1 1 1 1 1 0 0 0 2 2 2 2 2 2 2	2.22 8529.9 0.0 39.4 45.9 7662.0 241.1 303.2 333.4 33615 455 105 105 105 105 105 105 105 1		
4P.59 4P.60 4P.61 4P.62 4P.63 4P.65 4P.66 4P.66 4P.68 4P.69 4P.71 4P.72 4P.73 4P.74 4P.75 4P.75 4P.76 4P.77 4P.78 4P.78 4P.78 4P.89 4P.81 4P.81 4P.81 4P.81 4P.81	Average pumping head – water treatment  Water distribution Total length of potable mains as at 31 March Total length of potable mains relined Total length of potable mains renewed Total length of potable water mains (<=320mm) Total length of potable water mains (<=320mm) Total length of potable water mains (<=320mm) Total length of potable water mains > 450mm - <=610mm Total length of potable water mains > 30mm - <=610mm Total length of potable water mains > 610mm Capacity of borotable vater mains > 610mm Capacity of variet rumping stations Capacity of variet rumping stations  Capacity of service reservoirs Capacity of variet rowers  Distribution input Water delivered (non-potable) Water delivered (potable) Water delivered (pilled measured residential) Water delivered (pilled measured residential) Water delivered (pilled measured business) Total leakage Distribution iosses  Water taken unbilled Number of glavanised iron communication pipes Number of glavanised iron communication pipes Number of other communication pipes Number of other communications	BN11002 BN1100 BN1204 BN1200 BN1208 BN14990 BN14890 BN14890 BN14890 BN14990 BN14990 BN1900000 BN12330 BN2000 BN2330 BN2000 BN2330 BN2010 BN2315 BN2110 BN11500 BN2327 BN11600 BN11610 BN11620 BN11620	m.hd  km	2 1 1 1 1 1 1 1 1 1 1 0 0 0 2 2 2 2 2 2 2 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0	2.22 8529.9 0.0 39.4 45.9 7662.0 323.4 336161 495 10 396.64 397.8 31.3 33.3 33.3 33.3 33.3 33.3 33.3 33		
4P.59 4P.60  C 4P.61 4P.62 4P.63 4P.66 4P.66 4P.67 4P.69 4P.70 4P.72 4P.73 4P.74 4P.75 4P.76 4P.77 4P.78 4P.79 4P.80	Average pumping head – water treatment  Water distribution  Total length of potable mains as at 31 March  Total length of potable mains renied  Total length of potable mains renewed  Total length of potable water sains renewed  Total length of potable water mains (<=320mm)  Total length of potable water mains >320mm - <=450mm  Total length of potable water mains >320mm - <=450mm  Total length of potable water mains >320mm - <=610mm  Total length of potable water mains >610mm  Capacity of service reservoirs  Capacity of service reservoirs  Capacity of service reservoirs  Distribution input  Water delivered (non-potable)  Water delivered (non-potable)  Water delivered (filled measured business)  Total leading of (lilled measured business)  Total leakage  Distribution tosses  Water taken unbilled  Number of filead communication pipes  Number of galvanised iron communication pipes	BN11002  BN1100 BN1204 BN1200 BN1200 BN14990 BN14990 BN14990 BN14990 BN14990 BN14990 BN14990 BN11000 BN1000 BN2330 BN2010 BN2330 BN2200 BN2180 BN11810 BN11800 BN11810 BN11800 BN119090 BN119090	m.hd  km	2 1 1 1 1 1 1 1 1 1 0 0 0 2 2 2 2 2 2 2	2.22 8529.9 0.0 39.4 45.9 7662.0 241.1 303.2 333.4 33615 455 105 105 105 105 105 105 105 1		
4P.50 4P.60 4P.61 4P.62 4P.63 4P.63 4P.65 4P.65 4P.65 4P.67 4P.73 4P.73 4P.73 4P.74 4P.75 4P.77 4P.77 4P.78 4P.79 4P.80 4P	Average pumping head – water treatment  Water distribution  Total length of potable mains as at 31 March  Total length of potable mains renewed  Total length of potable mains renewed  Total length of potable water mains (<=320mm)  Total length of potable water mains (<=320mm)  Total length of potable water mains >320mm - <=450mm  Total length of potable water mains >320mm - <=610mm  Total length of potable water mains >320mm - <=610mm  Total length of potable water mains > 610mm  Total length of potable water mains > 610mm  Capacity of source reservoirs  Capacity of service reservoirs  Capacity of service reservoirs  Capacity of service reservoirs  Distribution input  Water delivered (non-potable)  Water delivered (filled measured business)  Total leakage  Distribution iosses  Distribution iosses  Distribution iosses  Distribution iosses  Distribution iosses  Distribution foleses  Number of glavanised iron communication pipes  Number of glavanised iron communication pipes  Number of booster pumping stations  Total leakage  Service servoirs  Number of obter communication pipes	BN10902  BN1100 BN1204 BN1200 BN1208 BN14990 BN1990 BN2904 BN2909 BN2010 BN2010 BN2010 BN2040 BN2040 BN2040 BN1990 BN1990 BN1990 BN11990 BN11990 BN11990 BN11990 BN11990 BN11990	m.hd  km	2 1 1 1 1 1 1 1 1 1 1 1 0 0 0 2 2 2 2 2 2 2 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0	2.22 8529.9 0.0 39.4 45.9 7662.0 241.1 303.2 33615 495 495 495 495 196.2 197.2		
4P 50 4P 60 4P 61 4P 62 4P 63 4P 64 4P 65 4P 66 4P 66 4P 67 4P 77 4P 77 4P 77 4P 77 4P 78 4P 77 4P 78 4P 79 4P	Average pumping head – water treatment  Water distribution Total length of potable mains as at 31 March Total length of potable mains renewed Total length of potable mains renewed Total length of potable water mains (<=320mm) Total length of potable water mains (<=320mm) Total length of potable water mains >320mm - <=450mm  Total length of potable water mains >320mm - <=450mm  Total length of potable water mains >350mm - <=610mm Total length of potable water mains >350mm - <=610mm  Total length of potable water mains > 50mm - <=50mm  Water delivers (non-potable water mains > 610mm  Capacity of service reservoirs  Capacity of service reservoirs  Capacity of service reservoirs  Distribution input  Water delivered (potable) Stater delivered (potable) Water delivered (potable)  Water delivered (	BN11002  BN1100 BN1204 BN1200 BN1200 BN14990 BN14990 BN14990 BN14990 BN14990 BN14990 BN14990 BN11000 BN1000 BN2330 BN2010 BN2330 BN2200 BN2180 BN11810 BN11800 BN11810 BN11800 BN119090 BN119090	m.hd  km	2 1 1 1 1 1 1 1 1 1 1 1 0 0 0 2 2 2 2 2 2 2 2 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0	2.22 8529.9 0.0 39.4 45.95 7662.0 323.2 323.4 386.15 495 0.00 97.00 97.00 97.00 97.01 11.14 14.44 14.44 14.44 14.44 14.44 14.44		
4P.50  C 4P.60  4P.61  4P.61  4P.62  4P.63  4P.63  4P.64  4P.65  4P.67  4P.68  4P.67  4P.70  4P.71  4P.72  4P.73  4P.74  4P.75  4P.77  4P.78  4P.78  4P.78  4P.78  4P.88  4P.88  4P.88  4P.88	Average pumping head – water treatment  Water distribution  Total length of potable mains as at 31 March Total length of potable mains renewed Total length of potable mains renewed Total length of potable water mains (<=320mm) Total length of potable water mains > 320mm - <=450mm  Total length of potable water mains > 320mm - <=450mm  Total length of potable water mains > 320mm - <=610mm  Total length of potable water mains > 450mm - <=610mm  Capacity of booster pumping stations  Capacity of variet rowers  Distribution input  Water delivered (non-potable) Water delivered (non-potable) Water delivered (potable) Water delivered (potable mains latid or structurally refurbished between 1881 and 1900 Total length of potable mains laid or structurally refurbished between 1891 and 1920 Total length of potable mains laid or structurally refurbished between 1901 and 1920 Total length of potable mains laid or structurally refurbished between 1901 and 1920	BN110002  BN1100 BN1204 BN1200 BN1200 BN14990 BN2330 BN2201 BN2201 BN2201 BN2330 BN2201 BN2201 BN2330 BN2010 BN1900 BN1900 BN11900	m.hd  km	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2.22 8529.9 0.0 39.4 45.9 7662.0 241.1 303.2 336.5 495 10 36.6 40.0 331.38 31.		
4P.50 4P.60 C 4P.61 4P.62 4P.63 4P.64 4P.65 4P.66 4P.67 4P.70 4P.71 4P.73 4P.73 4P.73 4P.74 4P.74 4P.78 4P.78 4P.79 4P.89	Average pumping head – water treatment  Water distribution  Total length of potable mains as at 31 March Total length of potable mains refined  Total length of potable mains renewed  Total length of potable mains renewed  Total length of potable water mains (<=320mm)  Total length of potable water mains >320mm - <=450mm  Total length of potable water mains >320mm - <=610mm  Total length of potable water mains >340mm - <=610mm  Total length of potable water mains >610mm  Total length of potable water mains >610mm  Capacity of booster pumping stations  Capacity of booster pumping stations  Capacity of water towers  Distribution input  Water delivered (incerpotable)  Water delivered (illied measured residential)  Water delivered (illied measured residential)  Water delivered (illied measured business)  Total leakage  Distribution losses  Distribution losses  Distribution losses  Water taken unbilled  Number of gleavinseled rion communication pipes  Number of of early ensive riservinsel  Number of other communication pipes  Number of o	BN10902  BN1100 BN1204 BN1200 BN1208 BN14990 BN1990 BN2909 BN2909 BN2010 BN2010 BN2010 BN2010 BN2010 BN2010 BN2010 BN1900 BN2010 BN1900 BN2010 BN1900	m.hd  km	1 1 1 1 1 1 1 1 1 1 1 0 0 0 2 2 2 2 2 2	2.22 8529.9 0.0 39.4 45.9 7662.0 241.1 303.2 33615 100 496.0 0.0 331.38 99.6 0.0 77.97 61.48 420894 1131 533 144 1420894 14107.7 147.		
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4P 50 4P 61 4P 61 4P 62 4P 61 4P 62 4P 63 4P 64 4P 63 4P 64 4P 65 4P 66 4P 67 4P 73 4P 73 4P 74 4P 73 4P 74 4P 75 4P 76 4P 77 4P 78 4P	Average pumping head – water treatment  Water distribution  Total length of potable mains as at 31 March Total length of potable mains refined  Total length of potable mains renewed Total length of potable mains renewed Total length of potable water mains (<=320mm) Total length of potable water mains >320mm - <=450mm Total length of potable water mains >320mm - <=650mm Total length of potable water mains >320mm - <=610mm Total length of potable water mains >450mm Total length of potable water mains >6 10mm  Capacity of booster pumping stations Capacity of booster pumping stations Capacity of water towers  Distribution input Water delivered (potable) Water delivered (potable) Water delivered (potable) Water delivered (potable) Water delivered (billed measured residential) Water delivered (billed measured business) Total leakage Distribution losses  Distribution losses  Water taken unbilled Number of lead communication pipes Number of of booster pumping stations Total length of potable mains laid or structurally refurbished between 1881 and 1900 Total length of potable mains laid or structurally refurbished between 1901 and 1920 Total length of potable mains laid or structurally refurbished between 1901 and 1920 Total length of potable mains laid or structurally refurbished between 1901 and 1920 Total length of potable mains laid or structurally refurbished between 1901 and 1920 Total length of potable mains laid or structurally refurbished between 1901 and 1920 Total length of potable mains laid or structurally refurbished between 1901 and 1920 Total length of potable mains laid or structurally refurbished between 1901 and 1920 Total length of potable mains laid or structurally refurbished between 1901 and 1920 Total length of potable mains laid or structurally refurbished between 1901 and 1920 Total length of potable mains laid or structurally refurbished between 1901 and 1920 Tota	BN10902  BN1100 BN1204 BN1206 BN1208 BN14990 BN14990 BN14990 BN14990 BN14990 BN14990 BN14990 BN14990 BN14990 BN1900000 BN19000000 BN2301 BN2000 BN2000 BN2000 BN2000 BN2000 BN2000 BN2000 BN2010 BN2000 BN1900 BN190	m.hd  km	2   1   1   1   1   1   1   1   1   1	2.22 8529.3 0.0 39.4 45.9 7662.0 241.1 303.2 323.4 33615 10 396.64 0.0 331.38 99.660 77.97 61.48 420694 1144 420694 1107.7 107.7 325.5 1067.8 1740.4 130.73		
4P 50  C 4P 61 4P 62 4P 61 4P 62 4P 61 4P 62 4P 63 4P 64 4P 65 4P 66 4P 66 4P 66 4P 67 4P 73 4P 73 4P 73 4P 74 4P 75 4P 78 4P	Average pumping head – water treatment  Water distribution  Total length of potable mains as at 31 March Total length of potable mains renewed Total length of potable mains renewed Total length of potable water mains (<=320mm) Total length of potable water mains (<=320mm) Total length of potable water mains >320mm - <=450mm Total length of potable water mains >320mm - <=610mm Total length of potable water mains >320mm - <=610mm Total length of potable water mains >610mm  Capacity of service reservoirs  Capacity of service reservoirs  Capacity of service reservoirs  Capacity of service reservoirs  Distribution input Water delivered (potable) Number of other communication pipes  Number of their communication pipes Number of service communication pipes Number of boster communication pipes Number of boster pumping stations Total length of potable mains laid or structurally refurbished between 1901 and 1902 Total length of potable mains laid or structurally refurbished between 1901 and 1902 Total length of potable mains laid or structurally refurbished between 1901 and 1902 Total length of potable mains laid or structurally refurbished between 1901 and 1900 Total length of potable mains laid or structurally refurbished between 1901 and 1900 Total length of potable mains laid or structurally refurbished between 1901 and 1900 Total length of potable mains laid or structurally refurbished between 1901 and 1900 Total length of potable mains laid or structurally refurbished between 1901 and 1900 Total length of potable mains laid or structurally refurbished between 1901 and 1900 Total length of potable mains laid or structurally refurbished between 1901 and 1900 Total length of potable m	BN10902  BN1100 BN1204 BN1200 BN1209 BN14990 BN1990 BN1990 BN290 BN2901 BN1900 B	m.hd  km	2   1   1   1   1   1   1   1   1   1	2.22 8529.9 0.0 39.4 45.9 7662.0 303.2 303.2 33615 455 105 366.64 0.00 331.38 99.60 77.97 83.74 61.48 42089 1137 533 144 1107.7 2166.5 1067.8 130.73		
4P 50 4P 61 4P 62 4P 63 4P 64 6P 67 4P 68 6P 67	Average pumping head – water treatment  Water distribution  Total length of potable mains as at 31 March Total length of potable mains renewed  Total length of potable mains renewed  Total length of potable water mains (<=320mm)  Total length of potable water mains (<=320mm)  Total length of potable water mains >320mm - <=450mm  Total length of potable water mains >320mm - <=610mm  Total length of potable water mains >320mm - <=610mm  Total length of potable water mains >610mm  Total length of potable water mains >610mm  Total length of potable water mains >610mm  Capacity of service reservoirs  Capacity of service reservoirs  Capacity of service reservoirs  Capacity of service reservoirs  Distribution input  Water delivered (potable)  Water delivered (potable)  Water delivered (potable)  Water delivered (billed measured business)  Total length of potable water mains of the water of the potable water water water of the potable water water water delivered potable)  Water delivered (potable)  Number of other communication pipes  Number of lead communication pipes  Number of lead communication pipes  Number of boster pumping stations  Total length of potable mains laid or structurally refurbished between 1901 and 1920  Total length of potable mains laid or structurally refurbished between 1901 and 1920  Total length of potable mains laid or structurally refurbished between 1901 and 1920  Total length of potable mains laid or structurally refurbished between 1901 and 1920  Total length of potable mains laid or structurally refurbished between 1901 and 1920  Total length of potable mains laid or structurally refurbished between 1901 and 1920  Total length of potable mains laid or structurally refurbished between 1901 and 1920  Total length of potable mains laid or structurally refurbished between 1901 and 1920  Total length of potable mains laid or structurally refurbished between 1901 and 1920  Total length o	BN10902  BN1100 BN1204 BN1200 BN1209 BN14990 BN1990 BN1900 BN1990 B	m.hd  km	2   1   1   1   1   1   1   1   1   1	2.22 8529.9 0.0 39.4 45.9 7662.0 303.2 33615 495 495 495 495 495 495 495 495 495 49		
4P 50 4P 61 4P 61 4P 62 4P 61 4P 62 4P 62 4P 64 4P 62 4P 64 4P 65 4P 66 4P 66 4P 67 4P 77 4P 77 4P 77 4P 77 4P 78 4P 79	Average pumping head – water treatment	BN11002 BN1100 BN1204 BN1206 BN1206 BN1208 BN14990 BN14990 BN14990 BN14990 BN14990 BN14990 BN14990 BN14990 BN1990 BN1990 BN1990 BN2935 BN2000 BN2010 BN2010 BN2010 BN2010 BN2010 BN2010 BN11990 BN2010 BN11990 BN1990 BN1990 BN11990 B	m.hd  km	2   1   1   1   1   1   1   1   1   1	2.22 8529.9 0.00 39.4 45.9 7662.0 241.1 303.2 323.4 33615 10 305.2 323.4 33615 49.9 306.64 0.00 331.38 99.60 77.97 61.48 42.0694 1107.7 325.5 1067.8 114.7 114.7 115.7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7		
4P 50 4P 61 4P 61 4P 62 4P 61 4P 62 4P 62 4P 64 4P 62 4P 64 4P 65 4P 66 4P 66 4P 66 4P 67 4P 73 4P 73 4P 73 4P 74 4P 75 4P 78 4P 79	Average pumping head – water treatment  Water distribution  Total length of potable mains as at 31 March Total length of potable mains renewed  Total length of potable mains renewed  Total length of potable water mains (<=320mm)  Total length of potable water mains (<=320mm)  Total length of potable water mains >320mm - <=450mm  Total length of potable water mains >320mm - <=610mm  Total length of potable water mains >320mm - <=610mm  Total length of potable water mains >610mm  Total length of potable water mains >610mm  Total length of potable water mains >610mm  Capacity of service reservoirs  Capacity of service reservoirs  Capacity of service reservoirs  Capacity of service reservoirs  Distribution input  Water delivered (potable)  Water delivered (potable)  Water delivered (potable)  Water delivered (billed measured business)  Total length of potable water mains of the water of the potable water water water of the potable water water water delivered potable)  Water delivered (potable)  Number of other communication pipes  Number of lead communication pipes  Number of lead communication pipes  Number of boster pumping stations  Total length of potable mains laid or structurally refurbished between 1901 and 1920  Total length of potable mains laid or structurally refurbished between 1901 and 1920  Total length of potable mains laid or structurally refurbished between 1901 and 1920  Total length of potable mains laid or structurally refurbished between 1901 and 1920  Total length of potable mains laid or structurally refurbished between 1901 and 1920  Total length of potable mains laid or structurally refurbished between 1901 and 1920  Total length of potable mains laid or structurally refurbished between 1901 and 1920  Total length of potable mains laid or structurally refurbished between 1901 and 1920  Total length of potable mains laid or structurally refurbished between 1901 and 1920  Total length o	BN10902  BN1100 BN1204 BN1200 BN1209 BN14990 BN1990 BN1900 BN1990 B	m.hd  km	2   1   1   1   1   1   1   1   1   1	2.22 8529.9 0.0 39.4 45.9 7662.0 303.2 33615 495 495 495 495 495 495 495 495 495 49		

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### 4Q - Non-financial data - Properties, population and other - Wholesale waterSouth Staffordshire / Cambridge Water Data validation For the 12 months ended 31 March 2019 Units DPs Current vear A Properties and population 4Q.1 Residential properties billed for measured water (external meter) BN2110 000 223,458 3 4Q.2 Residential properties billed for measured water (not external meter) BN2115 000 3 81.006 4Q.3 Business properties billed measured water BN2210 000 3 40.031 4Q.4 Residential properties billed for unmeasured water BN2100 000 374.117 3 4Q.5 Business properties billed unmeasured water BN2200 5.227 000 3 4Q.6 Total business connected properties at year end BN2221 000s 3 45.295 4Q.7 Total residential connected properties at year end BN2161 000s 3 691.819 4Q.8 Total connected properties at year end BN1001 000 3 737.114 4Q.9 Number of residential meters renewed BN1765 000 3 6.199 4Q.10 Number of business meters renewed BN1767 0.608 000s 3 4Q.11 Number of meters installed at request of optants BN1715 000 3 8.000 4Q.12 Number of selective meters installed BN1711 000 3 0.000 4Q.13 Total number of new business connections BP3405 000 0.363 3 4Q.14 Total number of new residential connections BP3400 000 5.218 3 4Q.15 Total population served BN2590 1712.812 000 4Q.16 Number of business meters (billed properties) BN11630 37.529 000 4Q.17 Number of residential meters (billed properties) BN11640 311.594 4Q.18 Company area SYS03 0 2672 B Other 4Q.19 Number of lead communication pipes replaced for water quality BN1231 nr 0 225 Total supply side enhancements to the supply demand balance (dry W3007SO 2 0.00 40.20 MI/d year critical / peak conditions) Total supply side enhancements to the supply demand balance (dry 4Q.21 W3008SO MI/d 2 0.00 year annual average conditions) Total demand side enhancements to the supply demand balance (dry 40 22 W3007DO MI/d 2 0.17 year critical / peak conditions) Total demand side enhancements to the supply demand balance (dry 4Q.23 W3008DO MI/d 2 0.17 year annual average conditions) 4Q.24 Energy consumption - network plus 113982 BM902FCNP MWh 0 23775 4Q.25 Energy consumption - water resources BM902FCWR MWh 0 137756 4Q.26 Energy consumption - wholesale BM102ECWW MWh 0 4Q.27 Mean Zonal Compliance QEBW0180 % 2 99.92% 4Q.28 Compliance Risk Index QEBW0183 nr 13 Draft value from DWI 4Q.28 Event Risk Index QEBW0184 60 Draft value from DWI nr 4Q.30 Volume of Leakage above or below the sustainable economic Level BN2341 MI/d 3 -0.300

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Completion

or the	12 months ended 31 March 2019													
Line	Item description	Bon Code	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	Other	Total	Company commentary (if required)	C
lokov v	esources													
atern	Opex analysis	-												
A)/ 1	Power	DM4400	£m	3	0.016	0.610	0.191	1.798	0.000	0.000	0.000	2.615		
4V.1	Income Treated as negative expenditure	BM102	£m	3	0.000	0.000	0.191	0.000	0.000		0.000	0.000		
		BM836												
4V.3	Abstraction charges/ discharge consents  Bulk supply	WS1003	£m	3	0.314 0.000	1.802 0.000	0.000	0.722	0.000		0.000	2.838 0.010		
4V.4		BM240	£m	3	0.000	0.000	0.000	0.010	0.000	0.000	0.000	0.010		
	Other operating expenditure - Renewals expensed in year (Infrastructure)	1110100		3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		
4V.5		WS1005	£m		0.000	0.000	0.000	0.000	0.000		0.000	0.000		
4V.6	- Renewals expensed in year (Non-Infrastructure)	WS1006	£m	3	0.000	0.000	0.000 0.003	0.000 0.727	0.000		0.000	0.000 0.934		
4V.7	- Other operating expenditure excluding renewals - direct	BM108	£m	3	0.186	0.018								
4V.8	- Other operating expenditure excluding renewals - indirect	BM110	£m	3	0.058	0.284	0.023	0.381	0.000		0.000	0.745		
4V.9	Total functional expenditure	BM816	£m	3	0.574	2.713	0.217	3.638			0.000	7.143		
4V.10	Local authority and Cumulo rates	BM817	£m	3	0.092	0.000	0.003	0.077	0.000		0.000	0.171		
4V.11	Total operating expenditure (excluding 3rd party)	BM316	£m	3	0.666	2.713	0.220	3.715	0.000	0.000	0.000	7.314		
4V.12	Depreciation	FT00865	£m	3	0.043	0.000	0.000	0.323	0.000	0.000	0.000	0.366		
4V.13	Total operating costs (excluding 3rd party)	BM319	£m	3	0.709	2.713	0.220	4.038	0.000	0.000	0.000	7.680		
Line	Item description	BON code	Unit	DPs	Water resources	Raw water distribution	Water treatment	Treated water distribution	Total					
										•				
В	Other expenditure - wholesale water													
4V.14	Employment costs - directly allocated	BM3010	£m	3	0.441	0.014	2.102	5.984	8.541	1				
4V.15	Employment costs - indirectly allocated	BM3011	£m	3	0.295	0.074	0.534	1.803	2.706					
4V.16	Number FTEs consistent - directly allocated	W3030	Nr	0	8	0	45	152	205.000					
4V.17	Number FTEs consistent - indirectly allocated	W3031	Nr	0	6	3	11	23	43.000					
4V.18	Costs associated with Traffic Management Act	W3032	£m	3	0.000	0.000	0.000	0.152	0.152					
	·									•				
С	Service charges													
4V.19	Canal & River Trust service charges and discharge consents	W3033	£m	3	0.000	0.000	0.000	0.000	0.000					
	Environment Agency service charges/ discharge consents	W3034	£m	3	2.838	0.000	0.069	0.000						
	Other abstraction charges/ discharge consents	W3035	£m	3	0.000	0.000	0.043	0.000		4				
4V.21	-	•								-				
4V.21														

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