Improving Urban Waters in Scotland



Wastewater Network – A timeline

Scottish Water Trusted to serve Scotland





Our role in Scotland

Every day we:

- Support over 2.6 million households and more than 150,000 business premises across Scotland
- Deliver 1.52 billion litres of clear, fresh drinking water; and
- Remove 1.1 billion litres of waste water which we treat, recover resources from, and return safely to the environment
- Operate 1,834 waste water assets, serving populations of <10 to over 500,000
- Operate over 3,600 Combined Sewer
 Overflows (CSOs)
 SW Internal
 General

OUR VITAL ROLE COVERS:





Our Strategic Plan





Our challenges



Ageing assets

Requiring doubling of investment over the next 20 years and PFI return

Changing climate Extreme weather impact on asset capacity



Achieving Net Zero By 2040



Forecast population change Movement of population from west to east



Evolving customer expectations

Increasing public scrutiny in our waste water assets



Improving Urban Waters - Outcomes

Improved Water Quality Monitoring and Reporting of discharges from all highest priority waters

Significantly reduced sewer related debris in the environment

Reduced Spills from the sewer network



Our environmental studies programme

Using a catchment based approach, we completed:

- 23 water quality studies
- o 59 aesthetic studies
- o 8 Bathing Water studies
- Over 1,220 CSOs and 94 WwTWs studied
- In addition, 12 Surface Water Action Plans completed (SWOs)



Edon Water Quality Accessment Report Edon Water Quality Strategic Study

ottis

EDEN WATER QUALITY STRATEGIC STUDY WATER QUALITY ASSESSMENT REPORT





Figure 36. Waterbody 6206 Schematic of SAGIS model

Duration	1 hour			6 hour			24 hour		
Frequency	Annual	3 Months	1 Month	Annual	3 Months	1 Month	Annual	3 Months	1 Month
DO Threshold (mg/l)	4.0	4.5	5.0	4.5	5.0	5.5	5.0	5.5	6.0
M74	135	165	272	26	40	65	6	14	19
us Dalmarnock WwTW	269	398	681	63	104	184	20	38	57
ds Dalmarnock WwTW	121	222	521	30	76	171	14	33	64
Richmond Park	211	355	907	52	129	307	22	67	96
Strathclyde Distillery	1822	2214	2834	301	419	503	73	98	122
Nelsons Monument	2492	3003	3490	448	527	624	102	121	142
Weir upstream	258	425	567	59	78	99	14	14	16
Weir	178	266	347	37.5	49	61	9	9.5	10.5
Weir downstream	93	106	127	16	20	23	4	5	5
The Ferry	188	330	515	49	74	128	13	21	42
Science Centre	618	1037	1666	151	238	380	43	75	106

SW Internal General

Figure 3-1 - Time series of results just upstream from tidal weir

The power of container stars



River Basin Management Plan (RBMP) – Current and Anticipated Condition





Wastewater Networks - Improving Urban Waters





Our 'Nature Calls' campaign

- We attend and clear 37,000 chokes per year
- Estimated annual cost of £6.5m
- SRD commonly found at beach cleans up; including sanitary products and wipes
- Our research shows that, despite this, 74% of people surveyed say they never flush wipes

Campaign aims

- Call to action customers to change their behaviour, binning the wipes
- Campaign to ban wipes containing plastic from being sold















Intelligent Asset Base







Environmental Studies Output





High Priority (108 delivered by 2027) 24 impact WQ

Medium Priority (135 solutions developed by 2027)

Low Priority



Manage Surface Water – through Flooding projects









Manage Surface Water – through partnerships





Douglas Community Park, Dundee



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