northern ireland water

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Annual Information Return 2024

for Public Domain





Annual Information Return 2024

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Annual Information Return 2024

Section 1

Board's Overview

Board's Statement

Northern Ireland Water's board of directors is required by the Utility Regulator to prepare a statement on the compilation of the Annual Information Return (AIR), explaining that it has satisfied itself as to the reliability, accuracy and completeness of the information provided.

The directors consider that the AIR provides a true and fair view of the state of affairs of NI Water for the financial year 2023/24. With respect to the preparation of the AIR, subject to any departure and explanation described in the commentary, the directors confirm:

- suitable accounting policies have been selected and applied consistently;
- judgements and estimates that have been made are reasonable and prudent;
- applicable accounting standards have been followed, subject to any material departures disclosed and explained in the financial statements.

The directors are responsible for keeping adequate accounting records that are sufficient to show and explain the company's transactions and disclose with reasonable accuracy at any time the financial position of the company and enable them to ensure that its financial statements comply with the Companies Act 2006, and the relevant provisions of the Water and Sewerage Services (Northern Ireland) Order 2006.

The directors who held office at the date of approval of this Board's Statement confirm that, so far as they are each aware, there is no relevant audit information of which the company's auditors are unaware and each director has taken all reasonable steps they should have taken as a director to make themselves aware of any relevant audit information and to establish that the company's auditors are aware of that information.

The Board's Statement sets out how NI Water's Board has satisfied itself that the information provided in the AIR is as reliable, accurate and complete as is reasonably practicable.

Processes and Internal Systems of Control

The AIR has been compiled in accordance with NI Water's AIR Completion Manual, which ensures clear ownership of AIR data, evidence of peer review and procedural documentation covering the compilation processes were followed in completing the AIR submission.

The AIR Completion Manual details roles, responsibilities and governance procedures, and provides guidance and templates for the completion of AIR methodologies, data tables and company commentaries.

Project Governance

The AIR project was coordinated by NI Water's Regulation Manager and representatives (senior managers) from relevant functional areas, i.e. those functions which contribute data to the AIR submission.

The Regulation Manager ensured:

1. information was disseminated to and from AIR contributors;
2. adherence to the AIR submission programme;
3. implementation of Reporter's recommendations.

Senior managers from across NI Water were responsible for:

- ensuring that the Utility Regulator's AIR reporting requirements were understood and followed;
- ensuring that relevant AIR line methodologies were updated in accordance with the reporting requirements;
- coordinating the population of data tables and the drafting of associated company commentaries in accordance with line methodologies and reporting requirements in compliance with the AIR programme;
- ensuring that relevant line methodologies, data tables and company commentaries were reviewed and approved in accordance with the AIR Completion Manual's roles and responsibilities matrix.

In order to maintain accuracy, consistency and a clear audit trail, roles and responsibilities for each element of the AIR submission were defined for the three key components of AIR, namely:

- line methodologies,
- data tables, and
- company commentaries.

Population of data tables and drafting of associated company commentaries were in accordance with the Utility Regulator's AIR reporting requirements. In addition, company-specific methodologies (line methodologies), explaining how raw data is collected, processed and input to the data tables, were updated and adhered to when populating data tables and drafting company commentaries.

To ensure consistency of reporting for AIR, every item of data provided in the AIR tables had a designated author, reviewer and approver. In all cases, the approver was an appropriate senior manager.

Independent Review

Audit plans were developed by the Reporter and external Auditor. The Reporter's audit plan was developed in accordance with the Utility Regulator's AIR reporting requirements and was approved by NI Water and the Utility Regulator.

Audits were undertaken by the company's Auditor and the Reporter in May and June. Feedback from the Reporter and Auditor was used to amend tables and commentaries where appropriate.

The complete AIR was endorsed by NI Water's Executive Committee and Board on 13th and 25th June 2024 respectively.

Board Involvement

In summary, the involvement of NI Water's Board in the completion of the AIR included:

- Reviewing monthly company business performance updates;
- Considering the findings of the Reporter and Auditor as presented in June 2024;
- Reviewing, commenting on and approving the Board's Overview;
- Reference to NI Water's Executive Committee and senior management team to verify corporate information;
- Executive Directors received regular reports on progress and reviewed, challenged, commented and influenced the content of the AIR.

The following measures help to ensure that the AIR complies with the Utility Regulator's reporting requirements and provides some assurance with respect to material assumptions and judgements included in the AIR commentaries:

- Clear accountability at senior management level for the ownership of all elements of AIR. NI Water has established an accountability trail from the information providers to the line owners through to heads of function.
- Every item of data in AIR has a designated author, reviewer and approver.
- Every provider of data produces a written methodology documenting the method used for the derivation of the data reported.
- Every item of financial data is prepared and reviewed by separate individuals and reconciled to the chart of accounts.
- Before each item of data is included in the AIR it is reviewed and approved by senior management in the data provider's business area.
- NI Water facilitates access to allow the Reporter and Auditor to review all relevant information required to discharge their duties.
- The Board receives regular presentations during the course of the year on key performance indicators, regulatory performance and key issues reported in the AIR.
- The Auditor presents to NI Water's audit committee and the Reporter presents to the Board at the conclusion of the AIR audit process.
- Directors may challenge the production and content of the AIR to satisfy themselves that their duties are fulfilled.
- In any case of uncertainty regarding data, commentary or line methodology, NI Water seeks advice and clarification from the Utility Regulator, the Reporter or the Auditor as appropriate.
- The recommendations from the Reporter's AIR audits are always captured, tracked and reported to EC throughout the year.

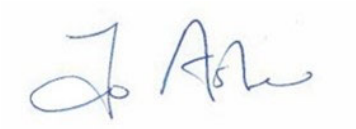
Directors' Endorsement

NI Water's board believes that it has developed and applied processes, governance and systems of internal control sufficient to meet its obligations for the provision of information contained in the Annual Information Return.

Each director is satisfied that:

a) so far as he/she is aware, there is no relevant audit information of which NI Water's auditors or reporters are unaware;
b) He/she has taken all reasonable steps as a director to make himself/herself aware of any relevant audit information and to establish that NI Water's auditors and reporters are aware of the information.

For and on behalf of NI Water:



Jo Aston
Chair of the Board



Maurice Bullick
Chairman of the Audit Committee

NORTHERN IRELAND WATER LIMITED - ANNUAL INFORMATION RETURN

ANNUAL RETURN - BOARD'S OVERVIEW

TABLE A - WATER SERVICE - KEY OUTPUTS AND SERVICE DELIVERY (TOTAL)

	DESCRIPTION	UNITS	DP	1 REPORTING YEAR 2015-16	2 REPORTING YEAR 2016-17	3 REPORTING YEAR 2017-18	4 REPORTING YEAR 2018-19	5 REPORTING YEAR 2019-20	6 REPORTING YEAR 2020-21	7 REPORTING YEAR 2021-22	8 REPORTING YEAR 2022-23	9 REPORTING YEAR 2023-24	10 REPORTING YEAR 2024-25	11 REPORTING YEAR 2025-26	12 REPORTING YEAR 2026-27
A	**Consumer Service**														
1	DG2 Properties at risk of low pressure removed from the risk register by company action	nr	0	171	40	175	176	115	168	176	143	219			
2	DG2 Properties receiving pressure below the reference level at end of year	nr	0	900	862	711	719	626	578	1715	1780	1617			
3	DG3 Supply interruptions > 12hrs (unplanned and unwarned)	%	2	0.10	0.06	0.10	0.04	0.09	0.00	0.08	0.00	0.00			
4	DG3 Supply interruptions (overall performance score)	nr	2	1.14	0.66	0.81	0.44	0.79	0.21	1.59	0.15	0.19			
5	DG8 % metered customers received bill based on a meter reading	%	2	99.23	99.52	99.67	99.67	99.53	99.22	99.66	99.77	99.78			
6	Unwanted Contacts	nr	0		110,197	105,964	75,569	67,013	70,204	66,064	57,327	50,400			
7	First Point of Contact Resolved (FPOCR)	%	1		66.5	65.8	90.0	90.4	90.4	84.0	84.0	86.0			
8	Net Promoter Score (all contacts)	nr	0		27	31	32	42	42	32	36	46			
9	Total Leakage	Ml/d	0	162	163	162	160	161	158	156	162	155			
10	Security of supply index	nr	0	100	100	100	100	100	99	100	99	100			
11	Percentage of NI Water's power usage derived from renewable sources	%	1	39.8	35.5	36.9	39.4	44.3	43.1	52.8	62.8	57.6			
B	**Quality Water**														
12	% overall compliance with drinking water regulations	%	2	99.83	99.86	99.88	99.90	99.90	99.94	99.88	99.91	99.92			
13	% compliance at consumers tap	%	2	99.74	99.77	99.81	99.83	99.84	99.91	99.82	99.88	99.88			
14	% iron compliance at consumers tap	%	2	98.40	98.66	98.85	98.94	98.89	99.56	99.35	99.15	99.71			
15	% Service Reservoirs with coliforms in >5% samples	%	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
C	**Water Outputs**														
16	Water mains activity - Length of new, renewed or relined mains	km	0	117	172	126	167	149	104	102	123	127			
17	Completion of nominated trunk main schemes	nr	0	2	1	0	0	0	1	1	1	3			
18	Completion of nominated water treatment works schemes	nr	0	1	0	0	0	1	1	1	3	3			
19	Completion of nominated improvements to increase the capacity of service reservoirs and clear water tanks	nr	0	0	0	1	0	1	1	1	0	2			
D	**Serviceability**														
20	Water infrastructure serviceability	Text		Stable	Stable	Stable	Stable	Stable	Stable	Stable	Stable	Stable			
21	Water non-infrastructure serviceability	Text		Stable	Stable	Stable	Stable	Stable	Stable	Stable	Stable	Stable			
E	**PC15 Additional Water Service Output Measures**														
22	Number of lead communication pipes replaced under the proactive lead replacement programme	nr	0	1922	1867	1767	2070	1781	1675	1864	1873	2016			
23	Number of school visits	nr	0	277	257	219	246	229	266	299	210	219			
24	Number of other education events	nr	0	65	64	62	66	143	12	64	63	78			
F	**PC21 Additional Water Service Output Measures**														
25	Number of catchments where management plan recommendations have been implemented	nr	0							0	3	4			
26	Number of treatability studies completed	nr	0							0	1	0			

NORTHERN IRELAND WATER LIMITED - ANNUAL INFORMATION RETURN

ANNUAL RETURN - BOARD'S OVERVIEW

TABLE B - SEWERAGE SERVICE - KEY OUTPUTS AND SERVICE DELIVERY - WATER SERVICE (TOTAL)

	DESCRIPTION	UNITS	DP	1 REPORTING YEAR 2015-16	2 REPORTING YEAR 2016-17	3 REPORTING YEAR 2017-18	4 REPORTING YEAR 2018-19	5 REPORTING YEAR 2019-20	6 REPORTING YEAR 2020-21	7 REPORTING YEAR 2021-22	8 REPORTING YEAR 2022-23	9 REPORTING YEAR 2023-24	10 REPORTING YEAR 2024-25	11 REPORTING YEAR 2025-26	12 REPORTING YEAR 2026-27
A	**Consumer Service Sewerage**														
1	DG5 Properties at risk of flooding - number removed from 2 in 10, 1 in 10 and 1 in 20 risk register by company action	nr	0	7	7	17	9	1	11	3	3	16			
2	DG5 Properties on the 2 in 10, 1 in 10 and 1 in 20 risk register at the end of the year	nr	0	160	156	134	124	119	108	107	102	80			
B	**Quality Sewerage**														
3	% of WwTWs discharges compliant with numeric consents	%	1	92.8	93.6	93.5	94.8	94.9	95.3	93.8	93.8	93.7			
4	% of total p.e. served by WwTWs compliant with numeric consents excluding upper tier failures	%	1	98.6	98.9	98.7	99.4	99.5	99.5	99.2	99.2	99.2			
5	Small WwTW compliance (works greater than or equal to 20p.e. but less than 250p.e.)	%	2	80.72	83.99	87.21	86.64	89.29	90.91	92.01	92.65	92.70			
6	Number of high and medium pollution incidents attributable to NI Water	nr	0	21	22	20	16	13	9	12	9	11			
C	**Sewerage Outputs**														
7	Sewerage activity - Length of sewers replaced or renovated	km	0	17	9	15	11	19	13	30	22	17			
8	Delivery of improvements to nominated UIDs as part of a defined programme of work	nr	0	26	11	11	8	3	1	4	3	5			
9	Delivery of improvements to nominated WwTWs as part of a defined programme of work	nr	0	3	2	1	6	2	3	1	6	3			
10	Small wastewater treatment works delivered as part of the rural wastewater investment programme	nr	0	4	8	3	8	9	12	2	10	4			
D	**Serviceability**														
11	Sewerage infrastructure serviceability	Text		Stable	Stable	Stable	Stable	Stable	Stable	Stable	Stable	Stable			
12	Sewerage non-infrastructure serviceability	Text		Stable	Stable	Stable	Stable	Stable	Stable	Stable	Stable	Stable			
E	**PC15 Addtional Sewerage Service Output Measures**														
13	CSO and EO discharges at which event and duration monitoring equipment has been installed	nr	0	0	0	0	115	37	127	52	83	124			
14	WwTWs upgraded to comply with PPC Regulations	nr	0	0	0	1	6	7	2	0	0	0			
15	Impermeable surface water collection area removed from the combined sewerage network	m^2	0	28,560	54,864	119,200	34,103	59,586	0	1,200	91,898	137,676			
16	Number of sustainable WwTW solutions delivered (p.e. ≥ 250)	nr	0	1	1	1	1	0	0	0	0	0			
17	Number of sustainable WwTW solutions delivered (p.e. < 250)	nr	0	0	1	0	0	1	1	0	0	0			
F	**PC21 Additional Sewerage Output Measures**														
18	Number of current Economic Constraint Areas removed by PC21 investment	nr	0							0	0	0			
19	Number of current Serious Development Restrictions removed by PC21 investment	nr	0							0	6	2			

NORTHERN IRELAND WATER LIMITED - ANNUAL INFORMATION RETURN

ANNUAL RETURN - BOARD'S OVERVIEW

TABLE C - EXPENDITURE & FINANCIAL PERFORMANCE MEASURES (TOTAL)

	DESCRIPTION	UNITS	DP	1 REPORTING YEAR 2015-16	2 REPORTING YEAR 2016-17	3 REPORTING YEAR 2017-18	4 REPORTING YEAR 2018-19	5 REPORTING YEAR 2019-20	6 REPORTING YEAR 2020-21	7 REPORTING YEAR 2021-22	8 REPORTING YEAR 2022-23	9 REPORTING YEAR 2023-24	10 REPORTING YEAR 2024-25	11 REPORTING YEAR 2025-26	12 REPORTING YEAR 2026-27
A	**TOTAL EXPENDITURE**														
1	Total operating expenditure - water service (NI Water only)	£m	3	76.947	80.362	84.765	90.334	80.971	88.141	96.680	105.015	112.219			
1a	Total operating expenditure (PPP) - water service	£m	3	8.225	9.062	9.323	9.721	9.549	10.076	11.161	13.109	14.667			
2	Total capital expenditure (excl. adopted and nil cost assets)	£m	3	63.796	67.719	62.807	70.162	75.556	78.493	98.960	136.174	150.275			
3	Total operating expenditure - sewerage service (NI Water only)	£m	3	73.126	71.950	74.758	76.367	74.216	79.273	95.894	108.631	111.738			
3a	Total operating expenditure (PPP) - sewerage service	£m	3	25.096	25.377	25.693	10.908	12.722	14.052	9.551	12.792	15.588			
4	Total capital expenditure (excluding adopted and nil cost assets) - sewerage service	£m	3	79.692	86.551	89.721	100.824	96.699	98.706	129.499	129.653	152.917			
B	**CURRENT COST ACCOUNTS - PROFIT & LOSS**														
5	Total Turnover	£m	3	367.287	372.854	381.099	409.662	422.314	412.533	434.164	473.700	542.804			
6	Current cost operating costs (including CCD & IRC) - not used	£m	3												
7	Current cost operating profit - not used	£m	3												
C	**CAPITAL BASE & POST TAX RETURN**														
8	Capital Value Year - End (outturn)	£m	3	2,133.30	2,244.90	2,396.10	2,537.90	2,672.40	2,611.20	2,831.60	3,307.40	3,737.40			
9	Total net debt	£m	3	980.545	1010.647	1079.329	1330.886	1370.422	1420.825	1536.789	1691.532	1862.047			
10a	Post tax return on capital	%	2	2.57	2.60		5.72	5.48	4.37	3.68	3.30	4.42			
10b	Pre tax return on capital	%	2	2.57	2.60		5.72	5.48	4.35	3.68	3.30	4.42			
D	**KEY FINANCIAL INDICATORS**														
11	Cash interest cover (funds from operations; gross interest)	ratio	2	3.38	3.45	3.50	3.20	3.31	2.99	3.24	3.29	3.98			
12	Adjusted cash interest cover (funds from operation less capital charges; gross interest)	ratio	2	0.83	0.91	1.98	1.61	1.70	1.15	1.37	0.89	1.43			
13	Adjusted cash interest cover (funds from operation less capital maintenance; gross interest)	ratio	2	1.76	1.58	1.74	1.78	1.97	1.45	1.27	1.08	1.25			
14	Funds from operations: debt	ratio	2	0.12	0.12	0.12	0.10	0.10	0.08	0.08	0.08	0.10			
15	Retained cash flow: debt	ratio	2	0.09	0.10	0.07	0.08	0.09	0.07	0.05	0.07	0.10			
16	Gearing: D/RCV	%	2	46.24	47.46	45.86	53.61	52.64	56.36	54.98	50.06	48.62			
17	Gearing: D/RCV (adjusted for PPP liability)	%	2	48.47	49.45	47.78	56.96	55.84	59.25	57.62	52.44	50.65			

Chapter 1
PC21 Outputs
Tables A and B

1.0 Introduction

PC21 Funding

The PC21 Business Plan set out the need for a step change in capital investment. The PC21 Final Determination (FD) endorsed the need to significantly increase the level of capital investment and acknowledged that investment of the magnitude proposed can only be delivered successfully if funding commitment is secured.

Whilst NI Water's Capital DEL (CDEL) requirement was fully met in the first two years of PC21, 2023/24 has been challenging. NI Water's Operating Plan and Budget for 2023/24 set out a CDEL requirement of £370m. Due to funding pressures, NI Water was subsequently able to reduce this to £353m, this was still £31.8m more than the CDEL budget of £321.2m which DfI had allocated. Following an unsuccessful bid for additional in-year capital allocations, DfI sought an absolute assurance from NI Water's Board that the £321.2m CDEL allocation would not be exceeded. An assurance was provided by the NI Water Board and management took steps to slow down the PC21 capital programme accordingly. Funding cuts, and uncertainty of funding in general, have a significant impact on the efficient and timely delivery of capital outputs.

Resource DEL (RDEL), in line with business needs, was secured late in 2023/24. However, NI Water experienced significant operating cost pressure due to continued high energy prices and global inflation. Whilst energy costs have reduced from their peak, they are still in excess of PC21 FD allowances, and it is therefore expected that power price rises and other cost pressures will continue to create significant budgetary pressures in 2024/25.

In this context, it is imperative that the PC21 Mid-Term Review (MTR) be completed. The allowances determined by the Regulator remain important references when assessing budgets. Since the PC21 FD was published, global and economic factors have significantly increased the levels of expenditure we require. The MTR provides the opportunity to have Opex and Capex (and RDEL and CDEL) forecasts adjusted so they remain realistic and reflect the level of funding that should be provided.

1.1 Improvements to Drinking Water and Environmental Quality

Water Quality

We achieved our drinking water quality compliance targets in 2023. We continue to engage with the DWI on potential changes to the Drinking Water Regulations in line with the Recast Drinking Water Directive. We have put in place a monitoring programme of sampling and analysis for the potential new parameters to assess the implications of these new requirements, should new drinking water regulations come into force.

Water Resource and Supply Resilience

The Water Resource and Supply Resilience Plan sets out how NI Water intends to sustainably maintain the balance between supply and demand for water over the long-term,

and the operational and management options and activities available to respond to short-term critical events such as droughts and freeze-thaw issues. The latest draft of the Plan forecasts supply demand deficits in five of the ten Water Resource Zones during summer peak conditions, with four of the zones identified as currently in deficit today. The draft Plan has identified several mitigations to resolve these deficits, and these include the upgrade of both Moyola and Clay Lake water treatment works and new boreholes near Dungannon (Gortlenaghan) and Lisburn (Lagan Valley). The draft Plan has been issued for consultation and will be updated based on responses with the final Pan to be published in 2024/25.

Several new projects and operational interventions were completed in 2023/24, which have improved current supply/demand and resilience issues. This included new clear water basins at Seagahan and Foffany water treatment works and the upgrade of Derg water treatment works. Further work over 2024/25 includes the progression of the strategically important Castor Bay to Ballydougan project, which will facilitate transfer of additional flow from Castor Bay to Ballydougan and the construction of new Granular Activated Carbon filters at Ballinrees water treatment works.

Summer demand spike

In June 2023, as warm temperatures persisted across Northern Ireland, demand for water rose by around 15% to 700 million litres per day. Our focus was to keep customers in supply, especially in the west and south. This required extensive tankering operations between Carryglass, Dungoran, Dromore High and Clay Lake.

Leakage

In 2023/24, NI Water reported its lowest ever level of leakage at 155 million litres per day compared to a target of 154 million litres per day. This reduction has been achieved despite Northern Ireland experiencing the highest recorded levels of rainfall and the highest average annual temperature.

More frequent weather extremes are having a significant impact on reducing leakage. NI Water continues to advance its capabilities using highly skilled leakage detection and repair teams. We deploy a variety of leakage detection techniques including listening sticks, ground microphones, acoustic loggers, drones, satellites, and dogs. We also monitor flows and pressures on our infrastructure. A combination of traditional and new approaches to leakage management will be used to drive down leakage over the remainder of PC21. We aim to achieve the economic level of leakage of 150 million litres per day by 2027.

Security of Supply

In 2023/24 we completed a £9m investment to improve the security of the water supply for around 76,000 customers in large parts of County Down. The upgrade at Fofanny water treatment works involved the construction of a new water storage tank with a capacity of 10 million litres. The upgrade will provide additional water supply to customers, particularly during high demand emergency situations, when we may need additional time to shut down the main plant, while we complete other planned maintenance to our water supply network.

Supply Interruptions

Our 'every minute counts' ethos helps to focus on ways to improve our performance and explore innovative solutions to minimise the time customers are off supply. We continued to implement our interruption to supply strategy over 2023/24, achieving record reductions in 'lost

minutes per property'. A second mobile booster trailer has been purchased and delivered to allow for greater resilience in our response to unplanned interruptions, as well as greater opportunity to keep customers in supply during planned shutdowns.

Our SMART networks programme helps to maintain a CALM network and increase visibility on all our water assets. Creating a calmer network reduces transients that can cause bursts and interruptions. Over 2024/25 we will be improving controls at water booster stations and using our new digital tools as well as data analytics through our SMART network to monitor and control our field operations. By 2027, we plan to install telemetry at 26 booster stations, enabling visibility and real time pressure control over 400km of pumped water mains, spanning around 7,500 properties.

Wastewater

We achieved our wastewater treatment discharge compliance targets in 2023.

Reducing sewer flooding

Our PC21 Business Plan includes storm water removal targets aimed at reducing the risk of property flooding, enhancing our natural environment, and facilitating economic growth. This programme is progressing well through investigation studies, modelling and direct capital investment, such as storm separation or Sustainable Urban Drainage System projects.

We have already removed a significant impermeable area that was contributing storm water to the combined sewer network. The further removal of incidental storm water is expected to increase in line with our wastewater infrastructure programme throughout PC21.

During 2023/24 we completed the £7m Ravenhill Avenue Flood Alleviation Project. The project was delivered as part of the Living With Water in Belfast Plan, which aims to help protect against flooding, enhance the water environment and provide the increased capacity needed for economic growth. Some sewers in this part of South Belfast date back to the early 1900's. They were in very poor condition and undersized to deal with today's flows. This essential project improved the sewers, whilst significantly reducing the risk of 'out-of-sewer' flooding and environmental pollution in the area. The project has also removed approximately nine hectares of storm water from the combined sewerage network, allowing it to return directly to the River Lagan.

Wastewater Compliance

We recognise the need to reform how wastewater compliance is assessed. The current regulatory monitoring programme is based on pre-announced rather than unannounced regulatory sampling at the treatment works and the reported wastewater compliance doesn't incorporate flow compliance for the wastewater treatment works or the sewer network. This provides an incomplete picture of environmental compliance and protection. We are working with the NIEA and other stakeholders to reform the wastewater compliance model to improve compliance across the whole wastewater system. This is known as the Water Regulation Reform Programme.

A Wastewater Regulation Compliance Reform Group has been established with senior

management representation from NI Water and NIEA. This working group will act as the interface between NIEA and NI Water on the delivery of wastewater regulation reform programme over PC21. It is recognised that the outcome of the proposed regulation change will result in new evidence, which will highlight non-compliance across our wastewater infrastructure.

NI Water has appointed a programme manager to develop and report progress on the plan for the wastewater regulation reform programme. The wastewater Statement of Regulatory Principles and Intent is under review by NIEA. This will take account of the regulatory approach for recognised underinvestment, a no detriment approach to dealing with development constraints and reform of wastewater compliance assessment. Work continues with NIEA on compliance assessment methodologies, including review of the Flow and Event Duration Monitoring Policies. Identification of investment needs for compliance reform will also be considered as part of the PC27 Business Plan.

We continued our wastewater regulatory monitoring programme over 2023/24. This sampling programme is helping to build up performance data, providing insight to treatment works' performance. We have initiated establishment of an independent wastewater compliance team, which will assist with providing assurance on the management of wastewater assets.

1.2 Delivering Service to Customers

Our Social Media and digital channels provide us with platforms to keep our customers informed of the challenges we face delivering clean drinking water and recycling wastewater safely back to the natural environment. Our website, Facebook and Twitter accounts allow us to reach out to our customers to change how they think about water to help reduce the pressure on our infrastructure and nature.

Facebook and Web Chat boost

In our ambition to deliver an exceptional customer experience, we are embracing new ways to meet rising customer expectations. Since increasing the operational hours of our social media platforms and introducing a web chat to our service update page, our social media base has continued to grow, now surpassing 35,000 followers and regularly handles more than 2,000 customer web chats per month. Feedback from customers for these channels has been very positive with both web chat and social media registering high consumer advocacy scores.

We expanded our customer base for web self-serve in 2022/23 by launching the web self-serve for developers, providing them with a service to submit applications, track progress and pay online. This was a major step change for the business and transformed the way we interact with our customers. In 2023/24 we refreshed the website, including changes to the landing page architecture and a reduction in process steps. These improvements will enhance the overall customer experience and provide better clarity and simplification on each step. Analysis of our range of social media offerings in comparison to other utilities is encouraging, with around a quarter of our customers now choosing to contact us through a digital channel.

During 2023/24 we created a new dedicated Customer Team for Developer Services. The team has been specifically trained to deal with all development-related queries, which can be more complex than standard operational customer calls.

In 2024/25 we will focus on finalising the design of the new customer, billing, and contact contract. This will include the delivery of new automated telephony, texting, and online chat customer channels.

Right First Time

We have introduced a comprehensive programme of initiatives to minimise the need for customers to contact us and for those customers that do make contact, ensure we resolve their issue first time.

Over 2023/24 we delivered against our target of 65,200 for unwanted customer contacts, our First Point of Contact Resolution target of 84% and our Net Promoter Score of 42. We also introduced early warning text notifications for metered, non-domestic customers experiencing high water consumption.

We expanded the use of robotics to automate manual processes, focusing on how we manage leakage defects that are identified by our contractors and continued with our programme of improvement initiatives focusing on septic tank and billing journey improvements.

During 2023/24, we continued to offer our social media and web chat services until 11pm, seven days a week. We offer a range of telephony and self-service channels to suit our customers' needs, including our waterline service, which is available 24 hours a day. In 2024/25 will be introducing new channels and customer systems as part of the new customer, billing, and contact contract.

Voice of the Customer packs are circulated monthly to business areas to provide an understanding of what is working well and to highlight areas for improvement. Over 2023/24, we have continued to undertake several customer journey reviews based upon customer feedback, along with our annual omnibus survey to gain the opinions and thoughts of the 'silent majority' of customers that use our services. Our focus on customers was recognised in the UK Customer Satisfaction Index Results for the first six months of 2023. NI Water was listed as the second highest performing water company for overall customer satisfaction and the third highest performer in the Utilities Sector Report.

Customer Care Register

We continue to work with the Consumer Council for Northern Ireland, Health Trusts, Councils, and other Utilities to promote our Customer Care Register. A further 177 customers have been added to the register over 2023/24, with a total of 2,798 customers/organisations registered. We continue to engage with the Utility Regulator, CCNI and other utilities on the Best Practice Framework: Code of Practice for consumers in vulnerable circumstances, which will standardise the approach to consumer vulnerability across the Northern Ireland utility sector.

In 2024/25 we will continue working towards BS ISO 22458 Consumer Vulnerability accreditation, which is to be achieved by the end of PC21. By taking a proactive and inclusive approach, NI Water can mitigate against exacerbating consumer vulnerability.

During 2023/24 we introduced the JAM (Just a Minute) Card across the entire organisation. The JAM card allows anyone with a hidden disability or communication barriers to discreetly ask for 'Just A Minute' of patience when they need it. The JAM card accreditation demonstrates NI Water's ongoing commitment to its customers and its priority to advance equality, diversity, and inclusion across the organisation, with over 1,300 colleagues undertaking the bespoke training programme.

Getting Smarter

Our customers tell us that they want a modern, interactive web-based platform where they can submit applications for our services, track progress, make payments and digitally sign documents without the need for paper or telephone contact. In response, we launched a digital application process for new connections to our network, wastewater adoptions and applications for trade effluent.

In 2023/24, we extended the use of robotics to automate processes resulting in improved service delivery for both internal and external customers using technology such as Power BI, Power Automate and ArcGIS. This technology means we have more time to focus on activities that make the most difference to our customer experience.

Cyber Resilience

Cyber security is a key priority for NI Water as we face increasing and evolving cyber threats that could harm our service delivery and business performance. We are committed to improving our information governance and cyber resilience by investing in technology, training, and awareness. We have a Cyber Resilience Programme in place to protect our operational technology and we work closely with the National Cyber Security Centre and other stakeholders to stay ahead of the cyber risk landscape. We also monitor and test our cyber security through simulated phishing campaigns, independent penetration testing and audits. We collaborate across the business to ensure that any new or upgraded technology is assessed for cyber risks and complies with our standards and policies.

1.3 Delivering Sustainable Services

Solar

As part of our PC21 commitment to double our existing 8MW of solar generation by 2027, we are exploring installations across our own land, through strategic partnerships. During the first phase of the project, we have installed over 2,000 solar panels across three sites to generate clean electricity and lower our carbon footprint. The on-site roof and ground-mounted solar installations were completed at energy intensive sites at Drumaroad and Killyhevlin water treatment works and Limavady wastewater treatment works. The solar panels have a combined capacity of 0.9 MW of power, which will be consumed on-site, thereby reducing demand from the electricity grid.

Dunore Point Ozone

We have been working to deliver energy efficient savings at Dunore Point water treatment works. Through collaborative working, NI Water has achieved significant energy cost savings of around £100k per year by turning off the ozone process over the lower risk winter months, whilst still maintaining drinking water quality compliance.

Loughries Wastewater Treatment Works

A part nature-based solution to wastewater treatment has been completed at Loughries wastewater treatment works, Newtownards, County Down. Due to its age, an increasing load from the village and ever-tightening discharge limits being applied, the existing works was in danger of breaching consents. The project involved the design and construction of a new treatment process consisting of a septic tank and aerated reed bed, which is a long-term solution to operate as a tertiary final polishing system. The vertical flow orientation of the reed bed minimises the footprint of the required bed, whilst aeration provides enhanced microbial treatment to bring discharges to the required standard.

Carbon Footprint

Our Climate Change Strategy was published in May 2023 and sets out how we can harness the huge and largely unseen potential for NI Water to address climate change. Several of the approaches we are taking will benefit our society and economy more broadly as it seeks to decarbonize and exploit the benefits of green growth through a just transition. We have challenged ourselves to go further and faster than the net zero 2050 targets set by law. NI Water is committed to achieve net zero for the energy we use by 2030 and net zero for all our emissions by 2040, as measured against our 2020/21 adjusted baseline.

1.4 Health and Safety

Health and safety are an integral part of NI Water's day-to-day business. NI Water's vision for health and safety for employees, contractors and customers is the 'pursuit of zero harm by raising standards and performance through the identification and adoption of industry best practice and the development of an empowered, valued, engaged, accountable and competent workforce'.

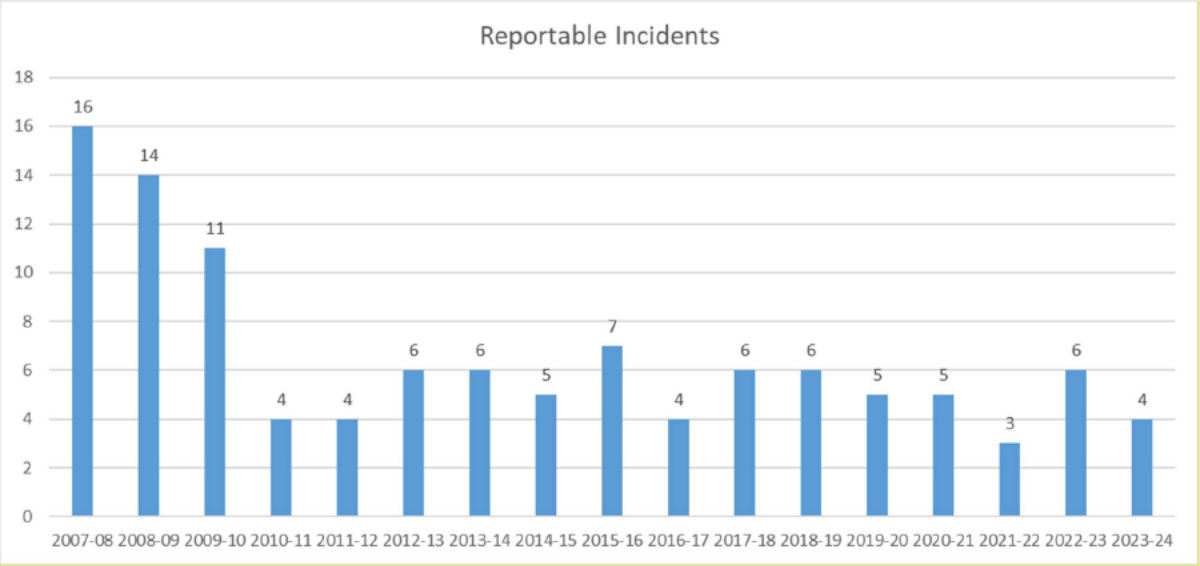
NI Water has a dedicated Health and Safety team, which is key to ensuring that NI Water complies with relevant legislation and best practice. The Health and Safety Focus Group, made up of representatives from across NI Water, examines NI Water and contractor incidents, reviews health and safety training needs, and general promotion of health and safety. Driver awareness was one of the areas of focus for 2023/24.

NI Water has a Health, Safety and Facilities Transformation Programme (2021–2025) which sets out several priorities for health and safety. Significant investment continues to be made in our facilities and above ground buildings and related assets.

The Assure health and safety software enables all employees and our supply chain to report incidents, unsafe and good observations and safety suggestions via App or Source homepage using a mobile phone, Toughbook, or laptop. The system provides real time, accurate and meaningful data that enables us to appropriately target and resource both our short and long-term health and safety priorities.

In 2024/25, a delivery programme for mandatory health and safety training will commence with this training integrated into employee learning paths. As the necessary compliance levels are achieved and planned improvements are realised, greater focus will be turned towards behavioural and culturally based projects with the zero harm concept being refreshed and reinvigorated.

There were four reportable incidents in 2023/24.



1.6 PC21 Targets for 2023//24

Tables 1.1 and 1.2 below provide a tabular summary of NI Water's delivery of services and outputs in 2023/24 compared to PC21 Final Determination (FD) and draft Mid-Term Review (MTR) targets. Where appropriate, FD targets have been adjusted to take into account variations resulting from PC21 change controls and carry-over from PC15. The following targets have not been achieved:

1. **Properties receiving pressure below reference level (DG2)**

   Subsequent to the publication of the PC21 FD, NI Water's refresh of the DG2 register identified a much higher number of properties at risk of low pressure. Whilst improved accuracy of the register is a positive step forward for customers, it had the result of making it impossible to achieve the PC21 FD target. In light of this, the Utility Regulator's draft MTR has proposed new, achievable targets for the last three years of PC21, but the target for 2023/24 was not amended. We did, however, achieve the 2023/24 target for the number of properties removed from the register through company action.

2. **Leakage**

   Total leakage is modestly behind the PC21 target. But NI Water has made significant progress in recovering from the widespread impact of major summer and winter events in 2023/23.

3. **Water Mains**

   There was a modest (cumulative) shortfall this year due to the impact of resourcing issues experienced by water mains contractors during 2021/22.

4. **Water Treatment Works**

   We are slightly behind our water treatment works PC21 target at the end of year three. The Ballinrees WTW project, which was due for completion in 2023/24, is underway and will achieve beneficial use in 2024/25.

5. **Small WwTW Compliance**

   We failed to achieve the PC21 target for small WwTW compliance in 2023. Of the 23 noncompliant works, 17 are included in the rural wastewater investment programme (RWwIP) for upgrades in PC21. A contributing factor to the missed compliance target is the failure to upgrade the target number of small WwTWs in 2023/24 (see point 9 below). Operational issues at a number of sites were also a factor. Addressing these issues and recovery of the RWwIP programme from 2024/25 onwards (subject to funding) should result in the small WwTW compliance targets being met in the remainder of PC21.

6. **High/Medium Pollution Incidents**

   Pollution incidents are dependent on a wide range of factors. These include weather, seasonality, customer behaviours, trade effluent discharges and rogue discharges to sewer. In our response to the PC21 draft determination, we noted that the proposed targets were unrealistic.

7. **Improvements to Nominated Wastewater Treatment Works (WwTW)**

   The PC21 Business Plan's profile for investment in WwTWs has been subject to change as part of a scope certainty exercise and the target has been amended as part of the mid-term review process. Despite this, the proposed MTR (draft

determination) target has not been met. This is due to completion of Ballyronan WwTW slipping from 2023/24 to 2024/25.

8. WwTWs Upgraded to Comply with PPC Regulations

In total, the PC21 target for PPC upgrades is 15 WwTWs. To date, 2 out of the 15 have been confirmed as not requiring PPC permits (with sludge production <50m3/day) and, therefore, do not require upgrades. Another 2 sites have been confirmed as needing permits, but not requiring upgrades. The remaining 11 WwTWs are currently being investigated to confirm whether they meet the sludge volume threshold for PPC permits and whether upgrades are necessary.

We would encourage the UR to consider amending the target description from "WwTWs upgraded to comply with PPC Regulations" to "WwTWs assessed and/or upgraded if required to comply with PPC Regulations".

9. Small WwTW

We are slightly behind the cumulative target for small wastewater treatment works delivered as part of the rural wastewater investment programme, with 16 works complete compared to a target of 18. An additional works was substantially completed in 2023/24, but NIE were unable to provide an electricity connection due to difficulties in obtaining the necessary wayleaves, preventing it from being commissioned and achieving beneficial use. We anticipate achieving the cumulative target of 24 small WwTW by the end of 2024/25 and the six-year target of 36 by the end of PC21, subject to the availability of funding.

10. Number of Economic Constraint Areas Eased

Delayed completion of Ballyronan WwTW, which slipped from 2023/24 to 2024/25 as noted above, has resulted in NI Water failing to meet the draft MTR target for economic constraint areas eased. We are, however, in line with the original PC21 final determination target for 2023/24.

Table 1.1 – Targets and Outputs for 2023/24: Customer Service and Water

	Units	FD Target #	MTR DD Target	Outturn
DG2 Properties at risk of low pressure removed from the risk register by company action *	nr	435	435	538
DG2 Properties receiving pressure below reference level at end of year	nr	365	365	1,617
DG3 Supply interruptions > 12hrs (unplanned and unwarned)	%	0.084	0.084	0.00
DG3 Supply interruptions (overall performance score)	nr	0.77	0.77	0.19
DG8 % metered customers received bill based on a meter reading	%	99.00	99.00	99.78
Unwanted Contacts	nr	65,200	65,200	50,400
First Point of Contact Resolved (FPOCR)	%	84	84	86
Net Promoter Score (all contacts)	nr	42	42	46
Total Leakage	Ml/d	154	154	155
Security of supply index	nr	100	100	100
Percentage of NI Water's power usage derived from renewable sources	%	50	50	58
% overall compliance with drinking water regulations	%	99.83	99.83	99.92
% compliance at consumers tap	%	99.74	99.74	99.88
% iron compliance at consumers tap	%	98.62	98.62	99.71
% Service Reservoirs with coliforms in >5% samples	%	0.00	0.00	0.00
Water mains activity - Length of new, renewed or relined mains *	km	419	419	352
Completion of nominated trunk main schemes *	nr	4[1]	3	5
Completion of nominated water treatment works schemes *	nr	9[2]	8	7
Completion of nominated improvements to increase the capacity of service reservoirs and clear water tanks *	nr	1	1	3
Water infrastructure serviceability	Text	Stable	Stable	Stable
Water non-infrastructure serviceability	Text	Stable	Stable	Stable
Number of lead communication pipes replaced under the proactive lead replacement programme *	nr	5,532	5,532	5,753
Number of school visits *	nr	528	528	728
Number of other education events *	nr	171	171	205
Number of catchments where management plan recommendations have been delivered	nr	7	7	7
Number of treatability studies completed	nr	0	0	1

Final Determination targets amended to reflect PC21 change controls and PC15 carry-over.

* PC21 cumulative target / outturn

[1] Amended FD target includes Unagh/Beltoy PS (CCP003)

[2] Amended FD target includes Dorisland PC15 carryover and Derg MCP (CCP001)

Table 1.2 – Targets and Outputs for 2023/24: Sewerage

	Units	FD Target #	MTR DD Target	Outturn
DG5 Properties at risk of flooding - number removed from the 2 in 10, 1 in 10 and 1 in 20 risk register by company action *	nr	20	20	22
DG5 Properties on the 2 in 10, 1 in 10 and 1 in 20 risk register at the end of the year	nr	106	106	80
% of WwTWs discharges compliant with numeric consents [NIW + PPP]	%	92.3	92.3	93.7
% of total p.e. served by WwTWs compliant with numeric consents excluding upper tier failures [NIW + PPP]	%	94.7	94.7	99.2
Small WwTW compliance (works greater than or equal to 20p.e. but less than 250p.e.)	%	93.1	93.1	92.7
Number of high and medium pollution incidents attributable to NI Water	nr	10	10	11
Sewerage activity - Length of sewers replaced or renovated *	km	30.3	30.3	69
Delivery of improvements to nominated UIDs as part of a defined programme of work *	nr	49	11	12
Delivery of improvements to nominated WwTWs as part of a defined programme of work *	nr	22[1]	11	10
Small wastewater treatment works delivered as part of the rural wastewater investment programme *	nr	18	18	16
Sewerage infrastructure serviceability	Text	Stable	Stable	Stable
Sewerage non-infrastructure serviceability	Text	Stable	Stable	Stable
CSO and EO discharges at which event and duration monitoring equipment has been installed *	nr	250	250	259
WwTWs upgraded to comply with PPC Regulations *	nr	4	4	0
Impermeable surface water collection area removed from the combined sewerage network *	m^2	1,093,620	109,362	230,774
Number of sustainable WwTW solutions delivered (p.e. ≥ 250) *	nr	0	0	0
Number of sustainable WwTW solutions delivered (p.e. < 250) *	nr	0	0	0
Number of Economic Constraint Areas Eased	nr	0	1	0
Number of Serious Development Restrictions Eased	nr	4	8	8

* PC21 cumulative target / outturn
Final Determination targets amended to reflect PC21 change controls and PC15 carry-over.

[1] Amended FD target includes Ballykelly PC15 carry-over

Chapter 2
Financial Performance Measures
Table C

2.1 Financial Performance

The financial performance section refers to NI Water (the Group) unless otherwise indicated.

Summary Consolidated Statement of Comprehensive Income

	Year to 31 March 2024 £m	Year to 31 March 2023 £m
Revenue	**549.3**	479.3
Results from operating activities	**157.7**	105.0
Net finance charges	**(62.2)**	(58.6)
Profit before tax	**95.5**	46.4
Income tax expense	**(24.0)**	(5.3)
Profit/(Loss) for the year	**71.5**	41.1
Other comprehensive expenditure, net of income tax	**7.2**	63.2
Total comprehensive income for the period	**78.7**	104.2

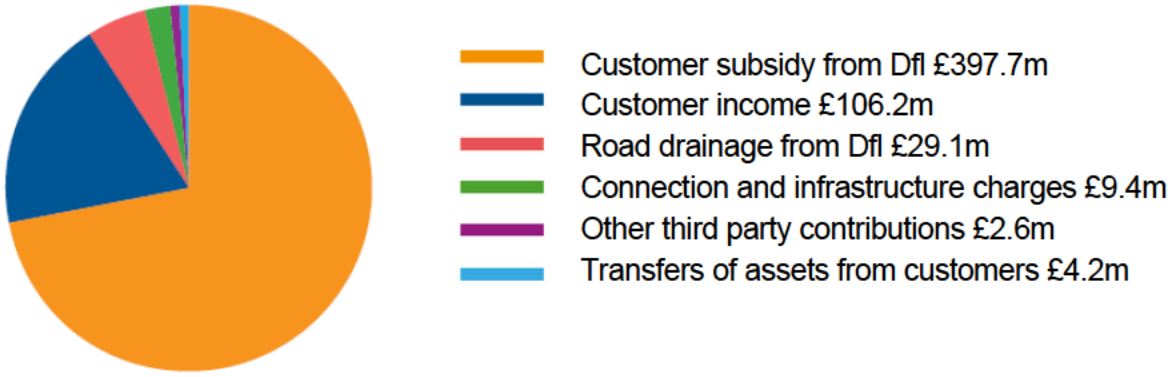
Revenue has been stated excluding the value of adopted assets (£39.9m) (2022/23: -£29.7m) following the adoption of IFRS 15 "Revenue from Contracts with Customers" in 2018/19. It is considered that the adoption of assets creates a long-term obligation to maintain the related assets and therefore the revenue should be spread over the life of the assets through a deferred credit release (£4.2m) (2022/23: -£4.1m).

Revenue

Domestic consumers are not charged directly for water and wastewater services. As a result, NI Water is dependent on Government subsidy for 72% of its total revenue.

Revenue was £549.3m for the year to 31 March 2024 (2023: £479.3m). Included in revenue was £426.9m (2023: £370.7m) received from the DfI, being subsidy of £397.7m (2023: £345.5m) and road drainage charges of £29.1m (2023: £25.2m). All the revenue was in relation to NI Water Limited as subsidiary revenue was all within the group.

Sources of revenue 2023/24 (£m)

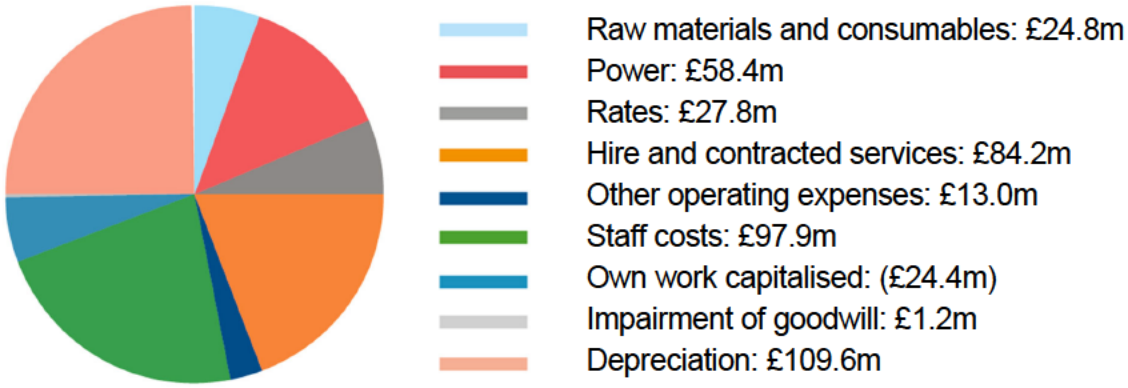


2.2 Costs (capital and operating) against expectations

Operating activities

Operating expenses in 2023/24 of £392.6m (2023: £375.6m) increased from last year. The increase primarily resulted from higher hired and contracted services, higher staff costs and higher depreciation costs as a result of the increased asset base offset by lower power costs. Results from operating activities before interest for the year was £157.7m (2023: £105.0m).

Operating expenses 2023/24 (£m)



Finance income and costs

The net finance costs are primarily due to interest on our borrowings of £60.0m (2023: £52.5m) and our Public Private Partnership (PPP) liabilities of £9.9m (2023: £10.5m). This was partly offset by bank interest received of £4.2m (2023: £1.0m) and interest income on the pension plan assets of £2.6m (2023: net finance cost £0.6m).

Taxation

The tax charge for the year was £24.0m (2023: £5.3m) for which payment is deferred to future years. The effective tax rate for the year to 31 March 2024 was 25.1% (2023: 11.5%). The higher tax charge in the year was largely due to the increase in taxable profit and the increase in the rate of corporation tax from 19% to 25% from 1 April 2023.

Distributions

The Board will consider a proposal to declare a dividend of £24.0m later this year (2023: £21.0m).

Capital Structure

The Consolidated Statement of Financial Position (SOFP) at 31 March 2024 is summarised below.

Total assets increased by 8.5% to £4,384.0m (2023: £4,041.0m).
Our net debt[1] figure was £1,849.5m at 31 March 2024 (2023: £1,678.3m).
Gearing (the ratio of net debt to equity and net debt) was 60.1% (2023: 58.9%).

Summary Consolidated Statement of Financial Position

	At 31 March 2024 £m	At 31 March 2023 £m
Total non-current assets	**4,209.9**	3,858.7
Total current assets	**174.1**	135.8
Total assets	**4,384.0**	3,994.5
Equity	**1,230.2**	1,172.4
Total non-current liabilities	**2,913.9**	2,609.4
Total current liabilities	**239.9**	212.7
Total liabilities	**3,153.8**	2,822.0
Total equity and liabilities at 31 March	**4,384.0**	3,994.5

Liquidity

Operating activities generated a net cash inflow of £275.8m (2023: £209.1m). Net cash outflows of £362.9m (2023: £285.7m) related to investing activities. Net financing activities created a cash inflow of £117.3m (2023: inflow £64.4m).

Our working capital requirements are met from a committed working capital facility of £20m and from available positive cash balances.

Interest is accrued on the working capital facility at floating interest rates based on Bank of England Base Rate.

Investing activities included the acquisition of property, plant and equipment of £368.1m (2023: £287.4m), interest received of £4.2m (2023: £1.0m), proceeds from the sale of property, plant and equipment of £0.2m (2023: £0.4m) and grants received of £0.8m (2023: £0.4m).

Pension funding

The pension scheme was valued (net of the associated deferred tax liability/asset) as an asset of £60.0m at 31 March 2024 (2023: asset of £46.5m). This was made up of a total market value of assets of £323.6m (2023: £300.1m) less actuarial value of liabilities £263.6m (2023:

[1] Refer to Notes A7 and B4 in the Statutory Accounts. Net debt consists of loans from the DfI of £1,809.6m (2023: £1,594.6m), external loans relating to subsidiaries of £53.9m (2023: £60.7m), derivative financial instruments of £0.7m (2023: £1.0m); and finance leases of £89.4m (on consolidation Alpha finance lease excluded) (2023: £95.8m) less cash and cash equivalents of £104.0m (including £13.6m from consolidated entities), (2023: £73.8m (including £15.3m from consolidated entities)).

£253.7m).

Capital

We have invested £3.5bn in Northern Ireland's water and wastewater infrastructure since our formation in 2007/08.

Around £342m of capital investment was delivered during 2023/24. £191m was invested in maintaining the current assets and a further £150.6m was invested to deliver quality enhancements, improve service and accommodate growth.

2.3 PPP contracts

Kinnegar Wastewater Treatment Works

A contract with Coastal Clear Water Limited was signed on 30 April 1999 for the provision of sewage treatment, which covered the upgrading of the Kinnegar Waste Treatment Works with a capital cost in the region of £11 million. The contract is for 25 years with an end date of 30 April 2024. The cost and net book value of assets included in Property, Plant and Equipment 31 March 2024 is £14.39m and £6.23m respectively (2023: £13.32m and £5.42m). The amount included in PPP Creditors at 31 March 2024 is £0.05m (2023: £0.46m).

Alpha

A contract with Dalriada Water Limited was signed on 30 May 2006 for the provision of bulk drinking water supplies. This has a capital cost in the region of £111 million. The service provision commenced roll-out from November 2008. The contract is for 25 years with an end date of 29 May 2031. The cost and net book value of assets included in Property, Plant and Equipment at at 31 March 2024 is £133.633m and £76.542m respectively (2023: £131.832m and £78.925m). The amount included in PPP Creditors at 31 March 2024 is £64.43m (2023: £69.96m). With the acquisition by the Group of Dalriada Water Limited during 2017/18 the PPP creditor at group level is eliminated on consolidation.

Omega

A contract with Glen Water Limited was signed on 6 March 2007 for the provision of sewage treatment / sludge disposal at six sites with a capital cost in the region of £132 million. The contract is for 25 years with an end date of 5 March 2032. The cost and net book value of assets included in Property, Plant and Equipment at 31 March 2024 is £155.886m and £92.316m respectively (2023: £154.961m and £95.997m). The amount included in PPP Creditors at 31 March 2024 is £88.14m (2023: £94.00m).

On Balance Sheet ***Alpha***	**Alpha £k**	**Omega £k**	**Kinnegar £k**
Opex	14,667	14,822	766
Interest	4,893	9,810	89
Total P&L Impact	**19,560**	**24,632**	**855**
Capital Repayment	5,535	5,854	409
Life Cycle Maintenance	1,516	2,018	1,298
Total Balance Sheet Impact	**7,051**	**7,872**	**1,707**
Total PPP Payments	**26,611**	**32,504**	**2,562**
Effective Interest Rate used to calculate Alpha finance charge	**7.14%**	**10.60%**	**24.75%**
Estimated Residual Value at End of Contract	£84m	£86.3m	£6.2m

2.4 Regulatory Capital Value (RCV)

The Regulatory Capital Value (RCV) has been developed for regulatory purposes and represents the capital base established for the purposes of setting price limits.

In line with Regulatory Accounting Guideline (RAG) 1.04, this note is compiled using figures assumed in setting prices during the Price Control (PC) process. Figures in the year to 31st March 2024 are therefore consistent with figures contained within the Water and Sewerage Service Price Control 2021-2027 (PC21) published by the Utility Regulator in May 2021.

Within the RCV, the prior year balance and in year capital expenditure have been indexed by the average Retail Price Index (RPI) over the year to March.

	At 31st March 2024 £'m	At 31st March 2023 £'m
Prior Year Closing RCV	**3,307.4**	2,831.6
Indexation and other adjustments	**247.4**	364.6
Opening RCV	**3,554.8**	3,196.2
Capital expenditure	**340.8**	241.7
Infrastructure renewals expenditure	**57.8**	49.5
Infrastructure renewals charge	**-57.8**	-49.5
Grants & contributions	**-15.9**	-15.1
Depreciation (including capital grants)	**-141.5**	-114.6
Disposal of assets	**-0.8**	-0.8
Closing RCV	**3,737.4**	3,307.4
Average RCV	**3,522.4**	3,069.5

Chapter 3

Efficiencies

ACE2 Programme

Achieving Customer Excellence (ACE2) is our major transformation programme and working together with the business delivers a range of benefits from operational cost and capital expenditure efficiencies, customer service improvements and capability build.

The programme supports the development of strategic direction and is underpinned by data analytics/insights and the advancement of innovative and technological solutions.

We are focused on enhancing new capabilities for our people and across our processes, digital technology, smart assets, tools/techniques and data and are continuing to build an "Intelligent" capability across or Water and Wastewater Production Lines.

Through collaborative and innovative ways of working, we are driving transformational change and continuous improvement across intelligent operations and customer experience, reducing our energy usage and increasing access to renewable power. This Programme aims to support our ambition of continuing to grow and mature as an intelligent and world class organisation.

The Programme is organised into seven main portfolios of projects, quantifying benefits and efficiencies, new income and carbon reduction. The Programme is supported by Digital and Analytics capability which has continued to drive value through building our business intelligence and insight and also through problem solving and piloting/implementing innovative solutions.

The PC21 Programme structure, governance and resource has been approved by TSG (Transformation Steering Group) and managed by the Programme team and Management Office. ACE2 Programme is progressing well to realise the "Planning for the Future" Target of £9.1m Opex benefits for the PC21 period. In the 2023/24 Financial Year the Programme has delivered Opex benefits of £1.4m (subject to review by Internal Audit in Q1/2 of 24/25).

The transformational programme represents an ambitious and complex set of business changes. Continuing to collaborate and work together with shared goals and common metrics the PC21 Programme Plan will move us further along our Maturity Model into the "Intelligent" band, exploiting digital technology, having a whole life view of costs and investments and push us towards becoming a fully "Optimised" utility.

Energy

NI Water recognises Energy as strategically important to it's future. As one of the biggest users of energy in NI, 2nd largest landowner and with over 3,000 network-connected sites and owning 11,300 hectares of land we recognise our responsibility to become a Net Zero organisation whilst also supporting Northern Ireland to address the Climate Emergency. Clean energy, low-carbon and digital solutions are widely recognised as the pillars of a better economy.

Recognising that we face the Climate Emergency, NI Water has developed the Climate Strategy. Our deliverables in 2023/24 focussed on developing ambitious plans and innovative solutions in both reducing energy use and exploring/delivering energy future opportunities for renewable energy. This programme of work is successfully reducing

business cost, improving resilience, driving income opportunities and supporting the business journey to becoming a Net Zero organisation.

Energy Reduce Use

Working with the Analytics team the Energy team have continued to reduce energy use and improve operational efficiency within the Water and Wastewater Production Lines. The development of business analytics platforms and tools (Power BI Dashboards and Apps) provide the data and insights for the project team and operational colleagues to review and analyse to deliver operational improvements and cost reductions (for e.g. Cost to Serve, Sub Metering Analysis, energy consumption, pumping efficiency, actionable data into our high consuming Water Pumping Stations to understand SEC (kWh/Ml/M) and asset performance data).

Through 4 key workstreams (Water Supply (Abstraction and Production), Water Delivery, Wastewater Collection and Wastewater Treatment and Recycling) work has been progressing in the following key areas: for example Network optimisation, Process Control Improvements at selected Wastewater sites, Water & Wastewater Pump Optimisation and efficiency, WW Real Time Control, further rollout of Odour Control, LED Lighting, Groundwater abstraction and investigatory work for Hydro Turbine opportunities.

- In 23/24 pump optimisation sites completed were Ballygomartin WPS, Seagahan WTW (Corran pumps), North Road WPS, Garstings Hill WPS, Tullywhisker and Castletown High Lift Pumps at Derg WTW, Poleglass WPS
- LED Lighting Projects completed in Altnahinch WTW, Dungonnell WTW, Ballinrees WTW, New Holland/Lisburn WwTW

Working collaboratively with:

- Customer and Operations colleagues to identify and implement energy efficiency improvements in the Water & Wastewater Production Lines within acceptable payback periods to reduce our site operating costs.
- Engineering & Sustainability (E&S) and Infrastructure Delivery (ID) colleagues, as they deliver a significant Capital Works Programme in PC21, to ensure energy efficiency is built into the front-end design and incorporated into our asset standards.

This portfolio of work continues to unlock significant energy savings across our Water and Wastewater Production Line and asset base. Outperforming targets with an outturn of £1.8m for years 1 and 2 and a forecast of c. £800k for Year 3 (subject to IA validation). A reduction in energy use reduces energy bought from the grid, operating costs, carbon emissions and provides a better service for customers.

Energy Future

The energy sector and market mechanisms continue to evolve. This programme of work and team continue to implement new technologies and further innovative changes to address the climate emergency. In conjunction with key external stakeholders, evolving regulation and incentives are presenting new opportunities for NI Water. Examples include renewable energy projects and moving electricity more "off-peak" - further Solar opportunities (pipeline of solar projects - planning, procurement and installation) Merchant/On-site Wind, Electrical Energy Storage Systems (investing in batteries to store power), Electric Vehicles/infrastructure and the Re-greening (tree planting) programme. Plans continue to develop for Hydrogen – Oxygen Ecosystem (development of

electrolysers), Hydrogen Logistics, Hydro (using reservoirs as a potential source of hydro power), and Resource Hubs.

Key Highlights include:

- Solar Power - As part of our PC21 commitment to double our existing 8MW of solar generation by the end of the Price Control Period we are exploring installations across our own land, through strategic partnerships and strategic projects. During the first phase of the project, we have installed over 2,000 Solar Photovoltaics (PV) panels across three sites to generate clean electricity and lower our carbon footprint. The on-site roof and ground mounted solar installations were completed at energy intensive sites at Drumaroad Water Treatment Works (WTW), Killyhevlin WTW and Limavady Wastewater Treatment Works (WwTW). The solar panels have a combined capacity of 0.9 Megawatt (MW) of power which will capture the sun's energy and convert it into electricity which will be consumed on-site reducing demand from the electricity grid. Ambitious plans are in place for Solar PV installations across the next 6 sites (estimating to generate a further 2 MW)

- Regreening our Land: With an ambitious target to plant 1 million trees on over 500 hectares of land by 2030 we are working in partnership with Forest Service and the Woodland Trust Northern Ireland. To date, we have planted c.220,000 trees across our land at Annalong, Fofanny, Dunore and Stoneyford which is helping to capture carbon and enhance our natural environment. Planting trees is important for habitat as well as helping to improve water quality for future water supply provision. In the 2024/25 planting season, we secured funding from DAERA Forest Service to draw down from Forest Expansion Scheme funding to plant c250,000 across 139 hectares on our land near Woodburn reservoir. By mid-2024, the total planted will reach almost half a million trees.

- Battery Storage: We have installed a state-of-the-art battery energy storage system powered by our existing solar farm at one of our largest water treatment plants at Dunore Point in Antrim. The battery boasts a 5.6 MWh (megawatt hour) total capacity which helps to store surplus energy generated onsite from 24,000 solar panels. NI Water can store this renewable energy when demand is low and when demand is high it can power its operations to reduce costs and keep water flowing. The battery also provides power back to the grid when required, to help support grid stability and provide greater resilience in the network to benefit NI society and economy. By generating our own renewable power, we will reduce our costs and generate income (estimated £460k in 24/25) from this installation.

The Energy Future portfolio continues to pave the way to unlock important energy savings, making significant contribution to the decarbonisation agenda and the business Net Zero Energy targets by 2030 and Net Zero by 2040. Delivering the "Power of Water" Energy Future is central to the Business Climate Strategy which has been developed, approved and shared with key stakeholders.

Intelligent Operations

Intelligent Operations is a key element of our programme. Adopting a new approach to operating and maintaining our Water and Wastewater Production Lines, we are harnessing the power of smarter ways of working and digital technology to form strengthened Asset Performance, Situational Management and Analytics capabilities.

We are continuing to develop and build our Intelligent Operations capability and ambitions. This is being achieved by evolving our roles and responsibilities and adopting a new operating approach in the 3 key areas of change:

- Co-location of Customer and Operations teams within the Intelligent Operations Centre "Hub".
- Smarter ways of working - building capability to become a world class organisation, and
- Exploiting digital technology and harnessing the power of data – accessing a wide range of advanced analytics, Artificial Intelligence (AI) and automation digital technologies that can help us understand and predict what may occur.

Co-location of Customer and Operations teams within the Intelligent Operations Centre "Hub"

- The Intelligent Operations "Hub" is well established, facilitating the co-location of the Customer and Operations Directorate leadership and supporting teams.
- The "Hub" facilitates much greater colleague and team collaboration. Customer teams working alongside Work Control, Telemetry, Metering and Billing, Energy, Water and Wastewater Production Line teams has proven successful and enables everyone to work "Hybrid" together from one centre
- In 23/24 the Capital House Strategy and exit plans have been well executed with customer teams re-located to the "Hub" and the Westland site.

Smarter Ways of Working/Exploiting digital technology and harnessing the power of data

- We are continuing to focus on developing our Intelligent Operations capability to optimise our production lines, develop our asset performance capability and exploit data to reduce our costs. Water and Wastewater Production Lines are at the core of delivering our services to our customers and we are continuing to build capability, capacity, resilience and further drive "end to end" efficiencies and new "ways of working" for our business.
- The outputs from the work of the Strategic Priority Group (SPG) continues to enable a collaborative approach to align and integrate Production line direction with PC21 Intelligent Operations and the Asset Delivery Programme.
- The development of Business Analytics Platforms and Tools - Power BI Dashboards and Apps provide the data and insights for the Project team and operational colleagues to review and analyse to deliver operational improvements and cost reductions.
- We are evolving to operate in 'real time' to predict and pre-empt adverse impacts to service (better fixes) and to identify the actions that will prevent service failures through data analysis (deal with the root cause). By being more intelligent at managing the network, customer service will continue to improve and costs will reduce. These activities underpinned by longer-term investments in technology that is focussed on enhanced analysis, remote control and automation are developing as part of Intelligent Operations.
- Working examples include:
    - Focusing on our cheapest sources of supply
    - Development of Situational Awareness (Vital signs) to monitor the current performance of the Networks
    - Development of a range of Energy Performance and Tracking Tools
    - Embedding "Cost to Serve" within the Business. Further development and implementation of the Cost to Serve Dashboard is enabling colleagues across the business to make more informed operations and business decisions. The Dashboard is helping to drive efficiency and performance allowing Area and Field managers to understand performance and target metrics and then to actively manage all costs within their operation and asset area.
    - Developing our asset performance capability - establishing Asset Performance Measures (Compliance, Energy, Failures),

- Initiating development of WW Catchment Smart Networks.

Capital - Asset Excellence

Continuing to build our Engineering and Sustainability (E&S) and Infrastructure Delivery (ID) capability and better understanding of asset performance is allowing us to make better investment decisions, design better solutions to deliver our major Capital Works Programme more efficiently, innovatively and proactively to support the green economy. We are continuing to promote collaboration with the supply chain, encourage early supplier involvement and continue our drive for excellence in the delivery of our capital programme.

Programme work has been built on 3 priorities - to:

- Enable the delivery of a scaled-up capital programme (from PC15 to PC21).
- Deliver the capital works programme efficiently, and
- Create a capable and resilient organisation and ways of working that can sustain delivery into the future.

The wider Programme consisted of 7 workstreams with examples of key themes below:

1. ISO Landscape – ensuring an integrated approach to asset optimisation, quality enhancement and maintenance efficiency. Alignment of NI Water management systems to the international standards for asset and quality management systems; including maintenance optimisation via
   the Road maps for ISO55001 and ISO90001
2. Collaboration – collaborative working both across the business and with Integrated Partnerships ensuring earlier engagement with our supply chain. Driving accountability within the project environment (client and supply chain) delivering improved project performance.
3. Independent Technical Challenge (ITC) – challenging the status quo thinking to establish if we can deliver more for the customer, business whilst supporting the green economy. Driving efficiency through innovation and engineering challenge.
4. Digital – the development of integrated Dashboard data and metrics to drive performance enabling a performance culture through the power of data visualisation to drive objective, evidence-based actionable insights via Performance Hubs across the Directorate.
5. Deliverability – Improving project management capacity by changing the ways of working between NIW PM's and supply chain consultancy partners.
6. Sustainable Working – ensuring we have a plan for tomorrow's organisation that can deliver on our stakeholder expectations. A more efficient Capital Works Programme with automated reporting of contractor and consultant KPIs; enhanced cost forecasting; enhanced efficiency tracking and more streamlined approval processes. Achieving Association for Project Management (APM) certifications ensuring project managers are equipped with the latest methodologies and guidelines.
7. Operating Model – establishing the needs of the future organisation and the capabilities and capacities required to set up for success in PC27.

Customer Experience

Achieving Customer Excellence remains at the heart of the operation and the Programme. This area of the Programme focusses on continuing to deliver a series of digital tools, technologies and processes that will drive an enhanced service offering and experience for both internal and external customers.

There are a number of key workstreams and themes:

The Contact Management team are transforming how we engage with customers including introduction of more proactive and digital contact channels.

The Channel shift strategy is focussed on our customers and working to extend our range of contact channels - reducing the need for customers to contact us in the first instance. This project has led to improved performance where the company has exceeded targets in all 3 regulatory customer metrics: Unwanted Contacts volumes below 62,500, a Net Promoter Score of 42 and First Point of Contact Resolution (FPOCR) of 84%. Customer Journeys have improved for No water complaints, Septic tank de-sludge requests, Water Quality complaints and Blocked Sewers.

The CBC Contract has been renewed, delivering an outcome and approach that best serves our customers and our business. Based on modern digital technology solutions that are sustainable over time the aim is to positively transform our ways of working and the experiences of our customers and staff while also providing enhanced value for money to our customers. We have reduced the number of warm voice calls whilst maintaining exceptional service for our external customers.

Based in the Customer Relations Management Centre the Developer Services team continue to deliver operating model, process and customer improvements. The Digital Services Platform and Self-Service Portal has now been in operation and embedding since Feb. 23. Developers and housebuilders can access the digital Self-Service Portal to apply online for new connections; sewer adoptions; and discharging trade effluent. The success of Digital Services can be seen in a number of ways. From a measurable perspective, the system managed c.£10m revenue, in contrast to c. £6m which had been manually processed in the previous years. The majority of customer feedback on the Digital Services system has been positive and the team have developed a robust mechanism for identifying future enhancements.

Commercial: Value Management

The commercial team has established the Commercial Centre of Excellence in line with the Commercial Excellence Design Principles - Strategy, Process and Control, Organisation, People & Culture, Technology and Performance Management.

This Portfolio is focussed on Supply Chain Resilience, managing market volatility, driving value from negotiating lower prices with suppliers, avoiding value leakage in contracts, using data analytics to better understand and manage our contracts and spend, standardising the items we procure, streamlining our internal contract management and purchasing processes both within our commercial teams and for front line employee/managers.

The commercial contract management team are responsible for all strategic and key operational contracts and continue to build capability and drive value through the supply chain.

The Commercial Management Office (CMO) is responsible for providing support & guidance, as well as performance management of all commercial activity. This business performance service has been established to ensure:

- Value is driven from category and contract management and captured through delivered benefits;
- Continuous improvement of commercial processes & procedures; and

- A Performance driven environment with clear targets, measurement and meaningful reporting - all supported by the Commercial Contract Management System (CCMS - Atamis) enabling enhanced information through automated reporting/dashboard.

Due to ongoing economic issues, a key area of focus in 23/24 FY was management of the Supply Chain in terms of engagement, supply chain resilience, monitoring market volatility and cost pressures. The team have identified and delivered significant Opex benefits (yrs 1 &2 c. £3m) with 23/24 benefits currently being confirmed.

Further to Tendering and Contract Management activities the Commercial team continue to build team capability through team training and continuously improve by leading successful collaborative Supplier engagement events, workshops and conferences.

World Class Working

The Performance Excellence Portfolio has been established to:

- Improve Business Performance by reviewing Metrics, using data "insights" and automated reporting to refresh Performance Hubs
- Equip the organisation to deliver Continuous Improvement (CI) in a consistent way to initiate and deliver sustainable change. Building capability and embedding tools and metrics create more efficient processes, remove unnecessary work, automate and boost productivity.

In 23/24 the focus has been on:

- Continuing to improve the EC Performance Hub - aligned to NI Water's 5 Strategic themes an EC Performance Hub Digital Dashboard has been developed using Power BI to assist in business reporting, prioritisation and decision making.
- Developing a Pilot Project to deliver "Lean Six Sigma" Green Belt training for a cohort of 12 participants from across the business. The objectives of this Pilot are for the participants to complete formal training, pass exam, apply the DMAIC approach to a business project demonstrating business operational improvements (cost reduction, process improvements, compliance improvements etc.) and to complete assessment to gain externally recognised BQF Accreditation.

Engaging and aligning with key stakeholders including the business Learning and Development Programmes has been an essential part of this work. The Pilot continues into the first half of 24/25 and the results are to be assessed to include lessons learned and a cost benefit analysis. Evidence may include building capability, operational improvements, delivering cost reduction and service improvement as well as helping to continue to establish a culture of continuous improvement for the Business. It is predicted that the results of the Pilot will help to shape future direction of travel for CI.

Business Analytics

Analytics capability has continued to grow and drive value through building up our business intelligence and insight e.g. Customer dashboard, asset energy performance dashboards, cost to serve, problem solving, piloting and implementing innovative solutions. Funding has been secured for innovative business solutions and Research and Development. Examples of progress includes - Development of Situational Awareness (Vital signs) to monitor the current performance of the Networks, development of a range of Energy Performance and Tracking Tools, embedding Cost to Serve within the Business, establishing Asset Performance Measures (Compliance, Energy, Failures), initiating development of WW Catchment Smart Networks.

Process reviews, automation and use of data, digital dashboards, analytics & metrics have supported decision making, performance and efficiency. Trend analysis has enabled a more predictive view and scenario modelling has supported the management of risk.

Digital dashboards are providing real value and a "lens" for Customer, Energy, Water and Wastewater Production Lines and continuing to link solutions to Intelligent Operations and Systems thinking.

This work continues to support Water and Wastewater Production Line performance and cost optimisation not only in real time but also in the short and medium to long term.

Work continues on development of the data strategy, next level of data analysis, people development and potential AI applications.

Chapter 4

Competition

There are no developments to report in respect of inset appointment proposals, common carriage or water supply licensing proposals. NI Water has made no requests for common carriage or wholesale water supplies.



Annual Information Return 2024

Section 2

Tables and Commentary

Chapter 1 - Promoting the Efficient Use of Water

This report examines a range of water efficiency activities undertaken by Northern Ireland Water for household and non-household customers over the course of this reporting period. The company is committed to promoting and improving water efficiency for all its customers.

The NI Water Education Team (WET) are continuously adapting their water education programme in response to challenges presented as a result of climate change and population growth which are impacting on demand for water particularly during the summer months. The education team have been evolving to more innovated approaches by applying online support and advice for water users through the 'Get Water Fit' platform where NI Water customers can access water saving advice and devices online. This service complements the education programmes delivered to schools and communities and targets those hard-to-reach groups within society.

The Water Education Team (WET) consists of two full time employees who visit schools, community groups, specialist groups and organisations working in partnership with stakeholders and other partners. Approximately 60% of the Educator's time is spent promoting water efficiency.

The key elements of our strategy are as follows:-

1. Efficient use of water in the home -
   a) ensuring no leaks from taps, toilets, pipe joints etc;
   b) cistern displacement devices used where necessary;
   c) efficient use of domestic appliances e.g. full load for washing machine, dishwasher and selecting water saving options on appliances;
   d) use of showers rather than baths, and using a shower timer to reduce time spent in the showers; and
   e) shower head and water tap aerators are recommended.

2. Efficient use of water in the garden -
   a) awareness of the amount of water used through garden hoses and sprinklers;
   b) encourage the use of a water gun if using a hose;
   c) encourage the use of water butts;
   d) use water retaining gels for plant containers;
   e) encourage use of mulch; and
   f) plant drought resistant plants.

WET have facilitated a variety of educational Tertiary talks/visits:-

- Stranmills University College, Belfast – 27 April 2023
- Southern Regional College – 16 November 2023
- Queens University Belfast – 21 November 2023
- Queens University Belfast – 23 November 2023

Events that were attended on request:-

- Waterfront Hall Science Blast Event – April 2023
- Balmoral Show – May 2023
- World Environment Day at Northwest Regional College – June 2023
- Garden Show Ireland – June 2023

- HMRC Sustainability Event – June 2023
- Belfast Maritime Science Event – September 2023
- Civil Service Staff Water Conservation Engagement - October 2022
- DUP Party Conference – October 2023
- Climate Action Interactive learning session for Secondary Schools – November 2023
- NI Science Festival, NI Water Treatment Works - February 2024
- NI Science Festival, Derry – February 2024
- Alliance Party Conference, March 2024

Staff who facilitated and attended the above online educational events promoted the practice of water conservation through these online channels and by means of follow-up visits to schools providing leaflets, promotional items and giving advice on using water wisely.

A variety of water efficiency promotional items are used whilst delivering all the above educational events which include:-

- Waterbutts
- Leaky Loo strips
- Toothy Timers
- Shower timers (4 mins)
- Waterwise Leaflet
- Promotional and Educational leaflets
- School water audits
- Water efficiency bookmarkers
- Interactive games encouraging conservation
- Save-a-Flush

Water efficiency leaflets are also available for download from the NI Water website along with a printable poster “Stop those drips”.

Household

1. Cistern Displacement Devices (CDDs)

These can be requested by the customer directly through NI Water’s Customer Service Centre (CSC) or from the Save Water Save Money online platform. For 2023/24 NI Water has distributed 153 CDDs.

The calculation for water savings achieved in 2023/24 reporting year is as follows:

S*O*F*(D*I) = Savings in litres

S= Savings per flush, O= Occupancy rate, F= Flushing frequency per person per day,
D= Number distributed, I= Installation rate.

Values derived from the Ofwat Water Efficiency Targets were used to estimate the number of CDDs installed. Using the Ofwat Efficiency Report the volume displaced per flush was recorded as 2.5 l/per flush and flushes per person per day as recorded as five. This figure is the average savings per flush achieved through the installation of save-a-flush, which are the CDDs distributed by NI Water. An installation rate of 70% was due to the distribution method used i.e. through requests, schools and community groups. Occupancy rate was 2.5 from NISRA.

Calculation:
2.5*2.5*5*(153*0.7) = 3,346.875 l/per day = 0.003346875 Ml/d

2. Distribution of Water Butts

During this reporting period, NI Water distributed water butts to schools and the wider community. The total for this year is 131.

The calculation for water savings achieved in 2023/24 reporting year is as follows:

S=V*F*1*N

S= savings per butt, V=volume of water butt, F= fills per year I= instillation rate, N= number of Water butts. Using the Ofwat Efficiency Report, the volume (200L) is company based (NI Water) and the fills per year is estimated at 6 and the installation rate is 100%.

Calculation:
200*6*1*131 = 157,000 l per year:
157,000/365 days = 430.6849315068 l per day = 0.000430684931 Ml/day

3. Shower Timers

Over the reporting year 7,415 shower timers were distributed through the Save Water Save Money online platform site. The installation rate of these can be assumed at 23% (Ofwat Water Efficiency Targets).

The calculation for savings achieved in 2023/24 reporting year is as follows:

D*I*S = Savings in litres

D = Number of shower timers distributed, I = Likelihood installed, S = Savings in litres per property per day.

Calculation: 7,415* 0.23* 5 = 8,527.25 l/per day = 0.00852725 Ml/d

4. Gel Bags

There were 152 gel bags distributed as part of the allotment group talks and shows. Using the Ofwat Water Efficiency Targets, a saving of 0.1 litres per property per day can also be assumed. Installation percentage would be 25% due to their distributed method.

The calculation for savings achieved in 2023/24 reporting year is as follows:

D*I*S= Savings in litres

D = Number of gel bags distributed, I = Likelihood installed, S = Savings in litres per property per day.

Calculation 152*0.25*0.1= 3.8 l/per day= 0.0000038 Ml/d

5. Toothy Timers

There were 94 Toothy Timers distributed through the Get Water Fit online platform.

The installation rate of these can be assumed at 23% (Ofwat Water Efficiency Targets); a saving of 12 litres per property per day can also be assumed.

The calculation for savings achieved in 2023/24 reporting year is as follows:

D*I*S= Savings in litres

D = Number of Toothy Timers distributed, I = Likelihood installed, S = Savings in litres per property per day.

Calculation 94*0.23*12* = 259.44 l/per day= 0.00025944 Ml/d

6. Leaky Loo

There were 346 Leaky Loos distributed through the Get Water Fit online platform.

The installation rate of these can be assumed at 23% (Ofwat Water Efficiency Targets,) a saving of 5 litres per property per day can also be assumed.

The calculation for savings achieved in 2023/24 reporting year is as follows:

D*I*S= Savings in litres

D = Number of Toothy Timers distributed, I = Likelihood installed, S = Savings in litres per property per day.

Calculation 346*0.23*5* = 397.9 l/per day= 0.0003979 Ml/d

7. Water Audits Completed by Company

No audits were completed in the homes of customers for 2023/24.

Presently in Northern Ireland domestic customers do not pay for their water and wastewater services as customers are not metered. Therefore, the only way to help foster change in attitude and behaviour is by demonstrating to the customer how they can financially benefit i.e. save money on electricity, for example by reducing time spent in the shower or reducing the number of showers they have in a week and the number of times the washing machine and or dishwasher is used.

Non-household

NI Water operates a large user discount scheme which is dependent on the commitment of the customer to water efficiency. The customer will have to provide evidence of promoting water efficiency; this may be through changes in procedure, installing water saving devices, installation of recycling plants and the review of water efficiency by an independent industry expert. (www.niwater.com/largeusertariff.asp)

The NI Water website is updated and reviewed on a regular basis. The site has been developed to encourage water efficiency within the commercial customer sector. The areas included are:

- Why Save Water?
- What is Normal Water Use?
- What is a Water Balance?
- Water Efficient Plumbing Appliances?

The website is accessible to all customers with internet access enabling them to source information to assist them in making decisions about water efficiency.

8. Water Audits

During 2023/24 reporting period 1057 Water Audits were processed through the ‘Get Water Fit’ online platform.

To calculate the savings achieved through this initiative it is necessary to make assumptions on the savings achieved (Ofwat Water Efficiency Targets). The percentage acted upon is assumed at 13.5% saving 13.5 litres per property per day:

D*A*S = Savings in litres

D = Number water audits carried out by company, A = Likelihood acted upon,
S = Savings in litres per water audit.

Calculation: 1057*13.5 = 14,269.5 l/per day = 0.0142695 Ml/d

No Commercial Audits were distributed during this reporting period. The document is available on-line as an advice leaflet for business customers titled “Advice for Business Customers” with an additional document “Business Water Audit”. Due to cost restrictions, these leaflets have not been published but are easily available on the NI Water website.

Savings and Costs

These savings have been achieved by adding together -

- Household-Water Efficiency Methods
- Non-Household-Water Efficiency Methods
- Other Water Efficiency Methods

Leakage: No savings or costs are sustained by NI Water through supply pipes being repaired, as NI Water does not operate a free/subsidised repair/replacement scheme. If NI Water repairs any leaking supply pipes, this will only happen after a leakage notice has been issued and the customer has failed to carry out sufficient work to rectify the problem. NI Water will then repair the supply pipe and any cost will then be charged to the customer.

Water Efficiency Methods

NI Water has implemented a comprehensive and proactive approach to promoting water conservation and efficiency, particularly focusing on children and young people through educational programs. The emphasis on reaching out to schools and engaging with students through tailored programmes were developed to achieve changing behaviour and attitudes in line with NI Water’s key water efficiency messages and assist us in connecting with those hard to reach within communities.

Given that education visits are NI Water’s most effective method of delivering their key Water Efficiency messages, the education team have continued with their already established innovative approach of delivery to reach communities and wider society.

Conservation classroom and Waterbus presentations were delivered over this past year, with the majority of these being provided on a weekly basis and working in conjunction with the Eco Schools Award scheme. The double decker Waterbus is a mobile educational classroom and provides presentations, displays, experiments, quiz, demonstrations, multi-media and computer facilities. This mobile facility aims to make children aware of the range of water topics and issues such as the water cycle, water for health, water sources, water/wastewater cleaning and water efficiency with all programmes designed for Key Stage 2 (P5-P7) within the revised NI curriculum.

NI Water has a Wastewater Heritage Centre site at Duncrue Street, Belfast. This location provides an insight into the history of water supply and removal of wastewater along with the importance of why we should not waste water. We consider educational interaction with

schoolchildren to be the vital link with parents, bringing news and promotional items home and encouraging them to become more water efficient and be aware of the value of water management. Key Stage 3 talks by NI Water's Education Team have also continued during this reporting period and have seen a continuous demand for these visits.

Also, during this period we continued the partnership with 'Get Water Fit' which is an online platform where NI Water customers would go online and complete a household water audit of their daily water usage and in return would avail of free water saving devices in areas of need that were identified through the audit and delivered straight to their homes.

The recognition of the influence that children can have on their families' behaviours through "pester power" is a smart strategy for extending the reach of water conservation messaging beyond the classroom and into the community. By involving students in learning about water management and efficiency, NI Water is not only fostering a culture of conservation among younger generations but also indirectly influencing the attitudes and behaviours of their families.

During this reporting period the WET facilitated **78** community visits/events delivering our key message on water conservation. There were also **219** KS2/KS3 school visits promoting water conservation within a classroom and assembly setting delivered over this past year, with the majority of these being provided on a weekly basis and working in conjunction with the Eco Schools Award scheme and within the NI education curriculum. This service has been well received by the Education Authority (EA) and over this reporting year we have reached **19,789** KS2 and KS3 pupils during 2023-24 school year with our key messages on water efficiency.

Overall, it seems NI Water's efforts are effectively utilising education as a tool for promoting water conservation and efficiency, with a focus on engaging both schools and wider communities.

Interactive Education & the Community section on NIWater.com

NI Water has dedicated website pages with advice on household and commercial water efficiency. Included in these pages is a domestic self-water audit, which allows domestic customers to calculate their average daily consumption per resident. This audit has the added benefit of doing calculations automatically and provides NI Water with completed audits instantly once the customer has submitted it. The website also includes guidance on the types of appliances that could be installed into homes and business, which would help them to become more water efficient in the future. During this past year, NI Water's education site which includes water efficiency tips has had **3,136** views and we have also seen **582** customers using our online water saving calculator.

www.niwater.com/education-and-the-community/

Over this past year we have continued to update the Education & Community section on our website with rich, informative content focused on informing water users about our key messages.

The extensive interactive content is used to not only educate users but also to position NI Water as a key stakeholder in the community, addressing important water use issues with a slightly more informal tone of voice.

The content is primarily targeted at school pupils with an animated design but is equally accessible by adults. It has been benchmarked against other leading water companies' equivalent sections and has been built with future proofing in mind by using non-native code platforms.

This education section within NI Water's website has been visited 2,185 times during 2023/24.

Main interactive sections:

- **Bag it & Bin it**
  www.niwater.com/bag-it-and-bin-it-interactive/

  Scrolling content building on the key "Bag it and Bin it" message and the importance of not flushing the "dirty dozen" down the toilet.

- **Water Saving Calculator – How much water do you use?**
  www.niwater.com/why-save-water/

  The calculator is designed to provoke awareness and thought on how much water households are wasting.

- **Silent Valley**
  www.niwater.com/silent-valley/

  This sub-section promotes Silent Valley as a visitor destination for families, groups and schools:
  - Image Gallery
  - Walking trails map
  - How to get there - embedded Google map for users to find directions from their address; and
  - Visitor information, downloads, podcasts.

Print, Broadcast and Online Media Value

Throughout this past financial year, NI Water's Communication Team have been proactive in promoting water efficiency through various media campaigns. The Communications Team delivered several media campaigns (including social media) around promoting water efficiency, including tips on how best to conserve water. An investment of **£68,614** financially supported this message which engaged customers on a wider scale and made them think about how important water is in their daily lives. The team used a mix of communication channels in this campaign from TV, radio, static OOH, digital OHH and social.

Also, this past year we have seen how NI Water have been active in encouraging water efficiency through educational and community campaigns. Another mechanism of raising the importance of water efficiency has been through the use of media. The Water Efficiency campaign generated **48** articles (print, broadcast, online), media items between April 2023 and April 2024, generating **£285.7k** financial PR value with a **14.2** million potential reach.

We also ran an advertising and PR campaign on Save Water Save Money during June 2023. This campaign used short animations that highlight water usage in the garden and how it could be reduced/saved. Information such as using water saved from the kitchen

could be used to water plants, clean the car, wash windows, as well as provide advice on using a watering can instead of a hose to save water.

The Education team promoted water efficiency through their school and community visits which had extensive media coverage across print, social media and broadcasting platforms. These education visits generated **178** articles with a financial PR value of **£69.9k** and had a **3.9** million potential reach.

NI Water also highlighted throughout the year the issue of water efficiency and in particular the potential for frozen pipes as part of its “Winter Preparation Campaign”. Beware of frozen pipes and calls to be mindful of water usage were the main drivers of both the reach potential and AVE value for 23/24’s Winter Preparation coverage. The campaign generated **95** articles (print, broadcast, online), media items relating to NI Water's Winter preparation between November 2023 and February 2024, generating **£30.1k** financial PR value with a **2.4** million potential reach.

Some of the campaigns are as follows:-

- Save Water Save Money
- Winter Preparation Campaign
- Beware of frozen pipes

Efficiency Method	Total	Cost £	Savings per Ml/ day
Household			
Measurable Methods			
Cistern Devices (0.57p each)	153	87.21	0.003346875
Water butts (£24.52 each)	131	3,212.12	0.000430684931
Self-audit (On Line)	1057		0.0142695
Total	**1,341**	**3,299.33**	**0.018047059931**
Other Measurable Methods			
Shower timers (£0.68 each)	7415	5,042.20	0.00852725
Gel Bags (£0.31 each)	152	47.12	0.0000038
Toothy Timers (£0.83 each)	94	78.02	0.00025944
Leaky Loos (£0.49 each)	346	169.54	0.0003979
Education Depart (UKWIR)		64,326.30	0.481
Total	**8,007**	**69,663.18**	**0.49018839**
Leaflets			
How water wise are you (0.10peach)	75	7.50	
Freezing Pipe (0.17p each)	140	23.80	
Total leaflets	**215**	**31.30**	
PR items			
Bookmark- “Flo” kids (0.07p each)	8,818	617.26	
Game: Snakes and Ladders (0.18p each)	140	25.20	
Stop Tags (0.43p each)	2782	1196.26	
Tap cover (£4.66 each)	0	0.00	
Ice scraper (0.73p each)	0	0.00	
Thermometer (0.76p each)	0	0.00	
Total PR	**11,740**	**1,838.72**	
Total		**74,832.53**	**0.508235449931**

NI Water has a large range of leaflets and non-measurable PR items that promote water efficiency; the distribution of these may also lead to increased water savings but at present these savings cannot be calculated, but the costs for this year is **£1,870.02**.

Assumed Savings

Household-Water Efficiency Methods = **0.018047059931**
Other Water Efficiency Methods = **0.49018839**
The total recorded savings are **= 0.508235449931**Ml/d

The work of the Education Department has continued to significantly improve NI Water’s water efficiency figure. This can be demonstrated through the behavioural change activity which has led to our customers becoming more efficient in their use of water and the UKWIR method is now being used to quantify the water saving benefits for “softer measures” (2010 Reporters recommendation 1, (document reference) T1niw.R10 P1 S2).

The UKWIR spreadsheet WR25 “Estimating water saving calculator for baseline water efficiency” has been used. These activities have been apportioned between Medium and High Levels of engagement.

This is summarised in the following table:

Level of Engagement	Ml/day
High	0.62
Medium	0.026
Totals	**0.644**

Using the UKWIR Methodology, which as previously mentioned was recommended by the Reporter, has resulted in a general improvement in water efficiency measurement for the company.

Year	Assumed Savings
2009/10	0.048 Ml/day
2010/11	0.216 Ml/day
2011/12	0.264 Ml/day
2012/13	0.227 Ml/day
2013/14	0.219 Ml/day
2014/15	0.304 Ml/day
2015/16	0.299 Ml/day
2016/17	0.517 Ml/day
2017/18	0.502 Ml/day
2018/19	0.782 Ml/day
2019/20	0.830 Ml/day
2020/21	0.199 Ml/day
2021/22	0.489 Ml/day
2022/23	0.455 Ml/day
2023/24	0.644 Ml/day

NORTHERN IRELAND WATER LIMITED - ANNUAL INFORMATION RETURN

ANNUAL INFORMATION RETURN - TABLE 2 KEY OUTPUTS
WATER SERVICE - 2 (TOTAL)

	DESCRIPTION	UNITS	DP	1 REPORTING YEAR 2015-16	CG	2 REPORTING YEAR 2016-17	CG	3 REPORTING YEAR 2017-18	CG	4 REPORTING YEAR 2018-19	CG	5 REPORTING YEAR 2019-20	CG	6 REPORTING YEAR 2020-21	CG	7 REPORTING YEAR 2021-22	CG	8 REPORTING YEAR 2022-23	CG	9 REPORTING YEAR 2023-24	CG	10 REPORTING YEAR 2024-25	CG	11 REPORTING YEAR 2025-26	CG	12 REPORTING YEAR 2026-27	CG
A	**DG2 PROPERTIES RECEIVING PRESSURE/FLOW BELOW REFERENCE LEVEL**																										
1	Total connected properties at year end	000	1	839.7	A2	852.4	A2	863.0	A2	874.3	A2	883.4	A2	892.9	A2	902.7	A2	910.1	A2	919.2	A2						
2	Properties below reference level at start of year	nr	0	1,082	B3	900	B3	862	B3	711	B3	719	B3	626	B3	578	A2	1,715	B3	1,780	B3						
3	Properties below reference level at end of year	nr	0	900	B3	862	B3	711	B3	719	B3	626	B3	578	B3	1,715	A2	1,780	B3	1,617	A2						
4	Properties receiving low pressure but excluded from DG2	nr	0	0	B3	0	B3	0	B3	0	B3	0	B3	0	A2	0	B3	0	A2	34	B3						
4a	DG2 Properties with pressure below a surrogate level of 7.5m at end of year	nr	0	126	B2	124	B2	103	B2	125	B2	129	B2	107	B2	208	A2	177	B2	177	A2						
4b	DG2 Properties at risk of low pressure removed from the risk register by company action	nr	0	171	B3	40	B3	175	B3	176	B3	115	B3	168	B3	176	A2	143	B3	219	A2						
4c	Average capex cost of permanent solutions to DG2 problems	£000/prop	1	13.9	B2	26.8	B2	9.8	B2	4.7	B2	18.7	B2	4.7	B2	11.4	B2	3664.8	B2	2,716.9	B2						
B	**DG3 PROPERTIES AFFECTED BY SUPPLY INTERRUPTIONS**																										
	(i) UNPLANNED INTERRUPTIONS																										
5	More than 3 hours	nr	0	105,235	A3	90,094	A3	108,386	A3	58,816	A3	49,181	A3	24,443	A3	35,321	A3	15,495	A3	14,654	A3						
6	More than 6 hours	nr	0	8,699	A3	5,128	A3	6,097	A3	3,509	A3	6,157	A3	1,834	A3	13,581	A3	1,322	A3	1,768	A3						
7	More than 12 hours	nr	0	841	A3	494	A3	861	A3	308	A3	751	A3	0	A3	710	A3	0	A3	0	A3						
8	More than 24 hours	nr	0	32	A3	0	A3	0	A3	0	A3	23	A3	0	A3	12	A3	0	A3	0	A3						
	(ii) PLANNED AND WARNED INTERRUPTIONS																										
9	More than 3 hours	nr	0	33,929	A3	35,484	A3	38,225	A3	38,289	A3	28,245	A3	5,306	A3	5,103	A3	2,504	A3	2,692	A3						
10	More than 6 hours	nr	0	13,767	A3	13,247	A3	14,809	A3	7,313	A3	11,463	A3	743	A3	1,724	A3	210	A3	92	A3						
11	More than 12 hours	nr	0	0	A3	0	A3	0	A3	0	A3	0	A3	0	A3	0	A3	0	A3	0	A3						
12	More than 24 hours	nr	0	0	A3	0	A3	0	A3	0	A3	0	A3	0	A3	0	A3	0	A3	0	A3						
	(iii) INTERRUPTIONS CAUSED BY THIRD PARTIES																										
13	More than 3 hours	nr	0	4,739	A3	12,691	A3	4,078	A3	12,089	A3	2,712	A3	2,183	A3	1,664	A3	816	A3	946	A3						
14	More than 6 hours	nr	0	476	A3	842	A3	1,145	A3	2,780	A3	166	A3	300	A3	240	A3	343	A3	27	A3						
15	More than 12 hours	nr	0	0	A3	30	A3	193	A3	0	A3	0	A3	0	A3	31	A3	112	A3	0	A3						
16	More than 24 hours	nr	0	0	A3	0	A3	0	A3	0	A3	0	A3	0	A3	5	A3	112	A3	0	A3						
	(iv) UNPLANNED INTERRUPTIONS (OVERRUNS OF PLANNED INTERRUPTIONS)																										
17	More than 6 hours	nr	0	1,141	A3	1,611	A3	1,630	A3	159	A3	222	A3	0	A3	89	A3	12	A3	0	A3						
18	More than 12 hours	nr	0	159	A3	417	A3	1,107	A3	0	A3	0	A3	0	A3	0	A3	0	A3	0	A3						
19	More than 24 hours	nr	0	140	A3	0	A3	0	A3	0	A3	0	A3	0	A3	0	A3	0	A3	0	A3						
C	**POPULATION**																										
20	Population (winter) (total)	000	2	1,874.73	C2	1,887.10	C2	1,896.46	C2	1,900.66	C2	1,914.49	C2	1,905.05	C2	1,910.42	C2	1,939.70	C2	1,947.17	C2						
D	**DG4 RESTRICTIONS ON USE OF WATER**																										
21	% population - hosepipe restrictions	%	1	0.0	A1	0.0	A1	0.0	A1	93.4	B2	0.0	A1	0.0	A1	0.0	A1	0.0	A1	0.0	A1						
22	% population - drought orders	%	1	0.0	A1	0.0	A1	0.0	A1	0.0	B2	0.0	A1	0.0	A1	0.0	A1	0.0	A1	0.0	A1						
23	% population - sprinkler/unattended hosepipe restrictions	%	1	0.0	A1	0.0	A1	0.0	A1	93.4	B2	0.0	A1	0.0	A1	0.0	A1	0.0	A1	0.0	A1						

Table 2 – Key Outputs - Water Service - 2

Line 1 - Total Connected Properties at Year End

NI Water's data on property counts and classifications is reported monthly from RapidXtra within the Rapid Property Summary (RPS). The data is extracted from the Diamond Warehouse via Microsoft SQL Server to produce the RPS report.

Our AIR24 methodology has remained consistent with previous years – using the automated Property Model tool to populate Table 2 figures (this was first introduced in AIR12 – the RPS as the input).

The RPS provides us with a snapshot at the end of each month in terms of net movement; however it alone does not support in the explanation of gross movements within the data. With this in mind, during the 23/24 reporting year the C&OD Services MI & Data Team explored the use of Power BI to re-create the RPS with a drill down function to display the gross movement. The Power BI property models developed take their direct feed from the Diamond Warehouse in order to refresh. These models provide us with information on gross movements and allow us to 'slice and dice' the data from various angles, providing invaluable insights. The plan is to further enhance and incorporate these models across the business during 2024/25.

Customer/Property information is updated through:

- BAU ('business as usual') customer contacts, such as new connection requests, customer move in/move outs, or
- through Data Quality initiatives/Projects, and/or
- Metering work streams e.g. UNHH (Selectives), Optants, and Proactive Meter Exchange etc.

Under the Water & Sewerage Services (2006) Order, NI Water were required to install meters on all new household connections from April 2007. This practice has stopped as directed by a change in legislation, which took effect in July 2016. The legislation was amended by Regulations, which in effect relieved NI Water of the obligation to install meters at newly connected domestic properties. As domestic customers are not charged on a measured basis, the property is reported as unmeasured. Some domestic properties were initially reported as measured in AIR10 but this was rectified as per the erratum to AIR10. Depending on the basis for charging when domestic billing is introduced, these customers can be activated as measured household if required.

The difference between the AIR23 and the AIR24 figures is 9092. The breakdown can be explained as follows:

1. New Connections during the 2023/24 reporting year. The figures are based on data supplied by our Customer Connections Team and represent completed connections during the reporting year. The projections for New Connections remain in line with the agreed PC21 forecasts.
2. Added as a result of a customer contact. i.e. septic tank empty request, no water complaint, blocked sewer, updating of standing data e.g. removal of services etc. Within this category there are 2 scenarios:
    (a) The adding of properties NI Water allegedly did not know about
    (b) The adding of duplicates as the customer's address could not be found on Rapid. Rapid may hold the site number but when the customer contacts NI Water, they quote the verified postal address, which is different, therefore

creating a duplicate. The street name may also have changed from the time of New Connection to that of customer contact (street names can change in the early stages of site development).

3. Removal/reclassification of properties as a result of data quality initiatives/projects
    a. Duplicate properties
    b. Reclassification of properties that were recorded in error
4. Change in occupancy status – movement from void/vacant to occupied and vice-versa.

For NI Water, accurate property data is fundamental for many systems and processes, including customer service, metering, billing, consumption, leakage and Major Incident Planning & Response. The Rapid Customer Contact System contains the master property data for NI Water.

As Data Owner for Property Standing Data, The Head of C&OD Services is responsible for the property standing data held by NI Water; this is monitored and managed through the Corporate Property Register (CPR) Project. The C&OD Business Services MI & Data Team chair this group.

The role of the CPR project is to agree a single consistent source of property data and to ensure that there is appropriate governance, controls and reporting for changes made to core data on the system. As Property Data Owners, we need to ensure the processes around creation, maintenance and demolition of properties are governed and appropriate control points and associated reporting are in place. Control is key for us; as such we have identified the systems, processes and people using property information across the business, alongside confirming data accuracy and endeavouring to reduce the opportunities for erroneous data entry and creation (such as the inability to recreate demolished properties or duplicate properties).

The issues under consideration were identified as of corporate relevance, therefore, to ensure appropriate direction and governance the CPR was formalised. Key objectives include:

1. To agree a single consistent source of property data.
2. To ensure the source property data represents accurate, up-to-date information appropriate for use by the business.
    a. To understand and agree data primacy in respect of data updates from NI Water and external (Land & Property Services - LPS) sources.
    b. To ensure the processes around creation (i.e. New Connections), maintenance and demolition of properties are governed and appropriate control points and associated reporting are in place. i.e. through data validation.
    c. To co-ordinate property reconciliations between NI Water & external sources i.e. Data Sharing Agreements between NI Water & LPS, NI Water & Belfast City Council (BCC) etc and understand the reasons and validity of any differences.
    d. To understand and ensure the adequacy of long term procedures for database maintenance, including the updating of data standards and associated CDE M&M Plans.
3. To ensure the reporting requirements for the business are met relating to data held on Rapid, particularly, but not exclusively, in respect of tariffs, leakage, Annual Information Returns (AIR) & Principal Statement (PS) returns.
4. Challenge the data in the areas of

   a. Data categorisation & structure.
   b. Data robustness – i.e. where is our data good and where is there opportunity for improvement? Identify projects that could aid improvement.
   c. Data alignment – both internally and externally. Internally between systems such as Rapid, Ellipse, GIS, Diamond, Netbase, IMS etc. Externally through data reconciliations, such as LPS above.
5. To agree measures to improve the quality and integrity of the data, particularly the key CDEs as monitored by IMU.
6. To agree the content and frequency of reports required by NI Water.
7. To agree the quality checking criteria for the above data and reporting and develop a Quality Plan including the determination of responsibilities and audit trails.
8. To produce & circulate an 'operate and maintain' programme for property data to the business.

The focus for the CPR project remains the same, including analysis and action on:

- Creation of an agreed single consistent source of property information, running alongside the CBC3 timelines.
- Volume of properties coming onto the Rapid billing system on a monthly basis
    - new connections
    - customer contact
    - project work
- Volume of properties coming off the Rapid billing system (demolished)
    - sample check to ensure reason for demolition has been noted and on system audit trail recorded
- Volume of properties amended on the Rapid billing system
    - In particular, address fields -> building number, street name, town and postcode
    - sampling to identify if the data changes are data improvement or data regression
    - if data regression, further analysis into the process is undertaken
- Review of access privileges
    - Rapid audit
    - Through monthly audit samples
    - Internal CRs require sign off from CPR team as BAU
    - Working with Echo to review access privileges on an ongoing basis
- Interruptions to supply notices – returned mail
    - This returned mail has been previously brought to the attention of LPS and include properties that LPS have classified as live properties despite being returned as 'no such address' etc
    - The 2 way communication with LPS will help underpin our governance work and provide direction to the business on practices

Annex A details the Line Methodology followed by the figure for Table 2 Line 1.

Line 2 – Properties below the reference level at start of year
The number of properties on the Register at the start of the year was 1,780, as reported in line 3 of the previous AIR submission.

Line 3 – Properties below the reference level at end of year
As per the regulatory guidance, as issued and directed by Utility Regulator, this line includes properties within a 10m height of service reservoirs.

It should be noted that NI Water will not be able to provide such properties with adequate pressure through normal hydraulics; however they will be included in the DG2 register. The final number of properties recognised as being below the reference level at year end is 1,617.

The year-end figure is the direct result of removals due to Company Action as well as additions identified throughout the year. Throughout this process a surrogate pressure of 15m head in the adjacent water main has been adopted as the reference level. All properties removed from the Register during the reporting period are supported by a report and appropriate logged data. The removals process is as per NI Water's methodology and is consistent with previous AIR submissions.

Line 4 – Properties receiving low pressure but excluded from DG2
As per the Utility Regulator determination, properties within 10m are no longer excluded from the DG2 Register. Therefore there are currently zero properties that are justifiably covered by the exclusions as per the DG2_LoS_Methodology document. It should be noted that NI Water will not be able to provide such properties with adequate pressure through normal hydraulics.

Line 4a – DG2 properties with pressure below a surrogate level of 7.5m at end of year
A query of the DG2 register confirms that 177 properties experience a pressure below the 7.5m surrogate level.

Line 4b – DG2 properties at risk of low pressure removed from the risk register by Company Action
Calculation of the total number of properties removed as a direct result of Company Action is generally achieved by adding the properties identified by removal reports resulting from both capital intervention and operational improvements.

Table 1

Removals Due to Company Action	Number
Capital Intervention	178
Operational Improvements	23
Total	**219**

The final number of properties removed due to Company Action is recorded in Table 1 above as 219. 6 additional properties were removed from the Register through Better Information equating to a total of 225 properties removed from the Register during Y23/24.

Line 4c - Average Capex cost of permanent solutions to DG2 problems
The Utility Regulator issued guidance in April 2011 for AIR11 Table 2 which included additional reporting lines for average cost of removing DG2 properties from the Register as a result of Company Action.

This is the third year of PC21 for which the company is reporting this figure and it will allow the benchmarking of NI Water costs. The variability of cost per property removed as outlined in the table below is reflective of the current method of delivery of the Water Mains Rehabilitation Programme (WMRP). Work packages have multiple drivers and assignment of costs to DG2 removal relies on the use of the Enhancement part of the CIDA allocation for the schemes below rather than directly attributable costs. (And includes individual schemes for clusters of properties rather than arising from individual projects designed

solely to remove DG2 properties.) NI Water will continue to develop these reporting lines to deliver a more robust process for attributing costs to DG2 properties.
As PC21 progresses more tailored WP's are being developed to specifically deal solely with DG2 issues. To date in PC21, three work packages of DG2 schemes have been issued to the Asset Delivery team for construction.

The refresh of the DG2 Register began in 2021/22 and on completion has seen a sharp and significant increase in the number of properties on the DG2 Register due to the refresh. New agreed removal targets throughout PC21 will greatly reduce this number to the benefit of the affected customers.

The number of properties on the register at the start of the PC period was 578. This increased to 1,715 properties by the end of the 2021/22 year and then to 1953 properties during 2022/23 as a result of the DG2 Refresh programme (i.e. a net increase in the register of 1,375 properties). At the end of the 2023/24 year this now stands at 1617 properties.

The scheme costs and number of properties removed from the register this year are reported for each WP below where a PPRA/DIR report was produced. The costs included are for mains, with the primary justification for rehabilitation listed as "Hydraulic", which were generally replaced with a larger size of main. These mains may have a secondary structural or water quality driver also but there was no cost reduction for asset maintenance or quality enhancement applied. This matches the approach used for CIDA allocation at A1 gateway approval stage.

OUTPUT 2023/24 Capital Intervention

225 DG2 properties were removed from the register during 2023/24 of which 219 were removed through company action and 6 were removed through better information. Of the 219 that were removed through company action, 196 were removed by capital investment and 23 were removed by operational interventions such as DMA rezoning.

PPRA reports covering a) Strangford b) Greyabbey c) Derrynoose Road, Keady, Man of War d) Mountainview Road e) Gallion Drive, Magherafelt and f) Benraw WPS area were produced during 2023-24 which removed 196 properties from the register by capital investment.

OUTPUT 2023/24 Zero Cost Operational Interventions

Operational Intervention Schemes by means of rezoning were conducted at g) Drumaroad Village which removed a further 23 properties from the register. These are all detailed in the Table below.

Table 7

WP Title	DG2 Properties Removed	Total Cost £	Cost Per Removal £
Capital Investment Schemes			
Strangford	166	323238.47	1947.22
Greyabbey	6	61315.25	10219.21
Derrynoose Rd, Keady, Man of War	6	49849.43	8308.24
Mountainview Road	8	80812.50	10101.56
Cumulative Sub Total Removals	**186**	521829.88	

WP Title	DG2 Properties Removed	Total Cost £	Cost Per Removal £
Opps Capital Investment Schemes			
Gallion Drive, Magherafelt	4	10679.20	2669.80
Benraw WPS area	6	6614.23	1102.37
Cumulative Sub Total Removals	**196**	532509.08	
Operational Intervention Schemes			
Drumaroad Village	23	N/A	N/A
Cumulative Sub Total Removals	**219**		
This year's revised target is 200			
TOTAL Pro Active NIW DG2 Removals 2023-2024	**219 achieved against 200 target**	**532509.08**	
Average Cost per DG2 Removal			**2716.88**

Therefore, the average overall cost of removing a DG2 property from the register is obtained by dividing the total cost £532509.08 by the total number of properties removed (196 for this year) utilising the EP and Operations Capital Budgets.

Average cost per DG2 removal = £2716.88

The replacement mains and Water Pumping Stations were sized using the current peak demand model. The design criteria was to meet the minimum pressure level of service of 15m at every property. Hydraulic head losses were generally kept below 1 m/km and velocity at an optimum 1 m/s. If headlosses were approaching this 1 m/km threshold, consideration was given to increasing the diameter to the next size to allow for seasonal peaks in demand and additional capacity for future demand growth.

Note
A Supplementary Information Report similar to that requested by the reporter last year will be available for use at the annual reporter review meeting. This report will highlight the relevant cost lines from the CMS system and the corresponding removal data taken from the PPRA Reports.

By taking the combined total DG2 properties removed (Capital + Operational Interventions) = 219, against the total cost to remove these £532509.08

Average Removal Cost = £2431.55

Capital Workpackage Descriptions

Through its Water Mains Rehabilitation Programme (WMRP) Northern Ireland Water (NI Water) is replacing and rehabilitating its network assets to improve serviceability levels to its customers. As part of its regulatory undertakings, NI Water is also required to target and monitor the removal of properties at risk of receiving low pressure, which it maintains on the DG2 register.

Strangford

As part of the WMRP, Asset Delivery replaced and upsized approx. 2272m of existing 4”SI water mains with new 180mm HPPE water main along Castleward Road and Black Causeway Road, Strangford in order to improve levels of serviceability to NIW customers The work was carried out under JI227.113 DG2 Removal Work Package 2.

The resulting upsized replacement water main increased the pressure to 166 existing DG2 properties above the minimum 15m pressure enabling them to be removed from the DG2 register.

Greyabbey

As part of the DG2 Refresh Programme, 6 no. DG2 properties were identified on the Ballywalter Road and Tullykevin Road, Greyabbey. A solution was identified to lay a new 90mm HPPE watermain on Ballywalter Road. This scheme was completed by Asset Delivery under JI227.113 through DG2 Removal Work Package 2. This has resulted in all 6 properties now receiving sufficient pressure to allow them to be removed from the DG2 Register.

Derrynoose Road, Keady (Man of War)

6 properties were identified on Derrynoose Road, Keady as receiving below 15m head of pressure and were registered on the DG2 register. The Water Networks Model Team identified a solution by laying approx. 329m of a new 90mm HPPE water main to link Derrynoose Road into the neighbouring Castleblaney Road DMA. This scheme was completed for this by Asset Delivery under JI227.114 DG2 Removal Work Package 2 of the Water Mains Rehabilitation Programme (WMRP). This has resulted in all 6 properties now receiving above standard 15m pressure at the point of connection and their removal from the DG2 register.

Mountainview Road

8 DG2 properties were identified as part of the DG2 refresh programme in Mountainview Road, Banbridge. The Water Networks Model Team identified a solution by upsizing of approx. 661m of 3” SI main on Mountainview Road with a new 180mm HPPE pipe. A scheme was completed for this by Asset Delivery under JI227.112 DG2 Removal Work Package 1 of the Water Mains Rehabilitation Programme (WMRP). This has resulted in all 8 properties now receiving above standard 15m pressure at the point of connection and their removal from the DG2 register.

Gallion Drive

As a result of some customer complaints and following logging to confirm, 4 no. properties in Gallion Drive, Moneymore were identified as receiving below standard pressure and were subsequently entered on the DG2 register. A scheme was developed to supply the Gallion Drive housing development from the nearby Mullaghbouy to Unagh 400mm DI main by installing an underpressure tee and approx. 15m of 125mm watermain. This work was overseen by the Water Asset Performance Team and utilising the Opps. Capital Budget.

Benraw WPS

As a result of upgrade work at Benraw WPS by the M&E Section, new Grundfos CR15-7 pumps were installed along with upgraded and upsized pipework and valves. This has resulted in 6 no. existing DG2 properties on Dolmen Road and Legananny Road now receiving higher pressure which has enabled them to be removed from the DG2 register.

This upgrade work was overseen by the local NIW M&E Section and Water Asset Performance Team and utilising the Opps. Capital Budget.

Further Work Packages to be reviewed next year 2024/25

A spreadsheet listing the Work Packages awaiting completion of PPRA reports was produced and it identifies the estimated number of DG2 properties to be removed during 2024/25 using predicted pressure from Hydraulic Modelling. The actual pressure will be confirmed by logging before formal removal of properties from the register. The table below lists the Work Packages and the predicted number of properties identified to date for removal. (This may rise or fall with further investigation or some omissions throughout the year)

Table 8

Work Package Name	No of properties to be removed
Markethill Road 1, Collone	12
Oldtown Lane/Sabbath Hill	15
Markethill Road 2	21
Granville DMA Old Eglish Road	20
Castlecaufield Drumreany Road	25
Ballyvoy- Coolnagoppoge Gravel Pit	9
Ballynoe Road	2
Killcoole Gardens Belfast	6
TOTAL	**110 against 158 target**

Removals Pending

It should be noted that there are currently 129 properties identified for removal from the register in 2024/25 to a target of 158 in the plan following the submission of PPRA Reports. However, the 2023/24 target was for the removal of 200 DG2 properties and the actual achieved removals was 19 over this figure. And so in reality the totals are 110 planned for next year against a 139 (158-19) target to get NIW up to the planned cumulative target for end of PC21 year 4.

These removals are subject to the completion of rehabilitation work, collation of pressure data and submission of completed reports. In previous years, more detailed work throughout the year resulted in more DG2s being delivered than planned. These reviews are ongoing.

Confidence Grade Line 4c

The confidence grade for this line has remained at B2 this year this has been achieved by EP, Asset Performance and the Reporter working together to improve the granularity of the returns and to improve the accuracy of the methodology and figures. This was done by making use of the scheme approval analysis that presents the contribution from each of the investment drivers (structural improvements, water quality, operational issues (leakage) and hydraulic drivers (DG2).

Individual scheme outputs are provided separately to show how each calculation was carried out.

Lines 5-19 - DG3 Properties Affected by Supply Interruptions

The rules governing the recording and collation of data for the DG3 Register are explained in the DG3 Levels of Service Methodology. DG3 procedures were established and implemented by NI Water in April 2007.

Note: This commentary includes figures based on a Total Connected Properties at Year End figure of **919,190** as confirmed by C&O Services in AIR24 Table 2 Line 1.

Significant year on year changes in reported figures including an explanation of any factors that may have influenced the figures

Unplanned, Unwarned Interruptions

AIR	DG3 Properties Affected	2021/22 (inc. Dunore)	2021/22 (exc. Dunore)	2022/23	2023/24
Table 2: Line 5	More than 3 hours	35,321	21,859	15,495	**14,654**
Table 2: Line 6	More than 6 hours	13,581	1,007	1,322	**1,768**
Table 2: Line 7	More than 12 hours	710	0	0	**0**
Table 2: Line 8	More than 24 hours	12	0	0	**0**

The above table lists the outturn numbers of properties affected by unplanned, unwarned supply interruptions in the last three years. The AIR24 outturn of **14,654** properties affected by an unplanned interruption of **more than 3 hours** was the lowest since regulatory reporting commenced. 213 events were responsible, excluding those caused by a third party. Of the 213 events, only one involved a loss of supply to more than 500 properties.

On 31st August 2023, an incident occurred at Westland SR, Belfast as a result of maintenance work whereby a valve was accidently closed. A valve chamber was flooded which prevented the quick operation of the valve and subsequently prolonged the interruption to customers located in DMAs downstream of the reservoir *(ref. DG3 IDs 214240 & 214249)*. A tanker had to be deployed to drain the chamber and allow access to the valve. Once the valve was opened, supply was restored to all DMAs although pressure was slower to recover in DMAs situated at higher elevations. The bypass valve was also activated for a short period to assist with recharging. 4,469 properties experienced an interruption of between 3 hours and 6 hours as a result of the incident. A further 304 properties experienced an interruption of between 6 hours and 12 hours and the incident was the subject of Upward Report 008. See commentary on Major Incidents in the Report Year for further details.

The AIR24 outturn of **1,768** properties affected by an unplanned interruption of **more than 6 hours** was the second lowest since regulatory reporting commenced. 48 events were responsible, excluding those caused by a third party. Of the 48 events, only three resulted in a loss of supply to more than 200 properties. The most significant event occurred at Westland Service Reservoir, Belfast on 31st August 2023 and is described above. Also on 31st August 2023, a burst occurred at Ballymaghan, Belfast causing a loss of supply for more than 6 hours to 227 properties *(ref. DG3 ID 214247)*. And in Crumlin on 4th May 2023, a burst caused a loss of supply for more than 6 hours to 226 properties *(ref. DG3 ID 213654)*.

For the third time since 2007/08, **no** properties experienced an unplanned interruption of **more than 12 hours**. And for the sixth time in the last 8 years, **no** properties experienced an unplanned interruption of **more than 24 hours**. This year's reductions are likely to have been attributed to a combination of factors, as detailed below.

Comparison of Unplanned Interruptions >3hrs *(T2: L5)* and Burst Rate *(T11: L11)*

The **Table 2: Line 5** outturn number of properties affected by unplanned interruptions >3hrs and **Table 11: Line 11** outturn number of bursts per 1,000 km of mains and are closely related as the majority of unplanned interruptions are caused by bursts. However, the trends for these two measures will not necessarily be the same because some properties will experience an interruption of 3 hours or less as the result of a burst main event and their numbers will not contribute to the regulatory return which is based only on interruptions lasting more than 3 hours.

The following table lists the outturn numbers of **bursts** for the last three years, including and excluding the impact of extreme or atypical events.

Bursts	**2021/22**	**2022/23 inc. Freeze/ Thaw**	***2022/23 exc. Freeze/ Thaw***	**2023/24**
Bursts (nr)	2,498	2,513	*2,312**	2,249
Difference	+98	+15	*-186*	-63
% Difference	+4.1%	+0.6%	*-7.4%*	-2.7%
Trend	Increase	No Change	*Decrease*	Decrease

**Excludes an estimated 201 bursts associated with Freeze/Thaw in December* 2022

The following table lists the outturn numbers of **properties affected by unplanned interruptions >3hrs** for the last three years, including and excluding the impact of extreme or atypical events.

Unplanned >3hrs	**2021/22 inc. Dunore TM burst**	***2021/22 exc. Dunore TM burst***	**2022/23**	**2023/24 inc. Westland SR incident**	***2023/24 exc. Westland SR incident***
Properties (nr)	35,321	*21,859**	15,495	14,654	*9,884***
Difference	+10,878	*-2,584*	-6,364	-841	*-5,611*
% Difference	+44.5%	*-10.6%*	-29.1%	-5.4%	*-36.2%*
Trend	Increase	*Decrease*	Decrease	Decrease	*Decrease*

**Excludes 13,462 properties affected by Dunore pumping main burst in July 2021*
***Excludes 4,770 properties affected by Westland SR incident in August 2023*

When the affected property outturns for 2022/23 and 2023/24 are compared, including an adjustment for an incident involving a closed valve and flooded valve chamber at Westland Service Reservoir in August 2023, the figures confirm that 5,611 fewer properties were affected in the last year, a reduction of 36.2%. As the burst rate trend would suggest only a decrease of 2.7%, the uncharacteristically high reduction in outturn requires explanation.

The reduction is an indication that the average duration of unplanned interruption has reduced, with more interruptions now lasting 3 hours or less and fewer properties contributing to the regulatory return as a result. This reduction has been achieved through changes in the way that bursts are managed.

Whenever possible, NI Water will use rezoning techniques to keep its customers in supply. This means that for many customers, the impact from a burst will be minimal. However, NI Water has a large rural network and rezoning opportunities are sometimes limited. When rezoning isn't an option, the Company now uses Mobile Booster Trailers to keep customers in supply and to greatly reduce the amount of time that customers are out of supply. The trailers can be taken to the location of bursts and are used to maintain water pressures while repairs are being carried out.

Recently, the mobile booster trailer was used during the 5-day shutdown of a water pumping station to facilitate a major refit. The booster trailer enabled this critical and lengthy work to be undertaken without a necessity to interrupt any customers.

NI Water's **ITS Strategy** is focussed on improving DG3 performance and reducing the Average Minutes of Lost Supply per Connected Property. As part of the work being undertaken, the Company has engaged with other companies with a similar population size and dispersal to develop a better understanding of the technologies and techniques employed to deal with bursts and has invested in these areas.

The Company also continues to invest in the proactive rehabilitation of its water main infrastructure, reducing the likelihood of bursts occurring on older parts of the network and in areas where issues have arisen in the past. Key elements of the ITS Strategy are summarised below.

- **Capital Investment in Watermains**
- **Post-Interruption Reviews (PIRs)**
- **Working Differently**
- **SMART Network**
- **CALM Network**

NI Water now has a designated Alternative Water Supplies team responsible for maintaining supply to customers during major incidents. AWS includes the management of tankering operations and in more extreme cases, the deployment of static tanks and the distribution of bottled water. By tankering directly into service reservoirs where levels are falling, depletion issues can be avoided and customers continue to receive water from their taps. Having a designated AWS team enables water supply and distribution staff to remain focussed on their normal task of restoring supply to the network.

Impact of Detailed Review Process on DG3 Supply Interruptions >3hrs

Prior to April 2018, only unplanned interruptions lasting more than 6 hours were reviewed in detail because the emphasis was on ensuring the accuracy of the KPI outturns. In April 2018, a detailed review process was introduced for unplanned interruption events lasting between 3 hours and 6 hours and involving more than 500 properties.

In April 2020, the detailed review process was expanded to include unplanned interruption events with property counts between 100 and 500. In its commentary for AIR21, NI Water explained that the detailed review process had been largely responsible for the decrease in the 2020/21 >3hrs outturn and that, based on an analysis of 74 events that were known to have been reviewed, the review process was likely to have led to a 51% reduction, on average, in the property counts associated with an event and that this was consistent with a 50% reduction in the Line 5 outturn.

From April 2021, the Company has reviewed **every event** in detail that lasted more than 3 hours because the focus is now on improving the accuracy of the Average Minutes of Lost Supply per Connected Property outturn which is based on properties that experience a planned or unplanned interruption of 3 hours or more. The detailed review process has eliminated the historical issue of over-reporting and consequently, outturns have reduced.

Planned and Warned Interruptions: Number of Events (All inc. WMRP)

DG3 Interruption Events	2021/22	2022/23	2023/24
More than 3 hours	87	54	**63**
More than 6 hours	9	3	**3**
More than 12 hours	0	0	**0**
More than 24 hours	0	0	**0**

The table above relates to annual numbers of planned and warned interruption events. Planned and warned interruption events are predominately associated with non-essential work i.e. work that does not need to be undertaken with any immediate degree of urgency. An example of non-essential work is mains rehabilitation.

In 2023/24, 63 planned and warned interruptions lasted more than 3 hours of which 22nr *(35%)* were related to the Water Mains Rehabilitation Programme *(WMRP)*. During the same period, 3 planned and warned interruptions lasted more than 6 hours of which 1nr *(33%)* was associated with mains rehabilitation.

Planned and Warned Interruptions: Properties Affected (All inc. WMRP)

AIR	DG3 Properties Affected	2021/22	2022/23	2023/24
Table 2: Line 9	More than 3 hours	5,103	2,504	**2,692**
Table 2: Line 10	More than 6 hours	1,724	210	**92**
Table 2: Line 11	More than 12 hours	0	0	**0**
Table 2: Line 12	More than 24 hours	0	0	**0**

The table above relates to annual numbers of properties affected by planned and warned interruption events.

In 2023/24, **2,692** properties were affected by planned and warned interruptions that lasted **more than 3 hours** of which 1,245 *(46%)* were related to the Water Mains Rehabilitation Programme. The Line 9 outturn was the second lowest since regulatory reporting commenced. During the same period, **92** properties were affected by planned and warned interruptions that lasted **more than 6 hours** of which 75 *(82%)* were associated with mains rehabilitation. The Line 10 outturn was the lowest since regulatory reporting commenced.

Planned and Warned Interruptions: Properties and Events (WMRP only)

Time Band		2021/22	2022/23	2023/24
More than 3 hours	Properties	1,108	713	**1,245**
	Events	17	11	**22**
	Properties per Event	65	65	**57**
More than 6 hours	Properties	312	0	**75**
	Events	3	0	**1**
	Properties per Event	104	0	**75**

The table above relates to planned and warned interruptions associated only with the Water Mains Rehabilitation Programme.

The Company's commitment to minimise disruption to its customers' water supply has resulted in the number of properties per event related to the WMRP of more than 3 hours, being reduced, with only one event of more than 6 hours compared to previous years.

The overall water main distribution meterage installed under the WMRP has increased from the previous years, e.g. meterage installed in 2023/24 was 126.5km, compared to 122.6km in 2022/23, 102km in 2021/22 and 101km in 2020/21. This has been achieved due to the necessity to use innovative techniques and stricter controls upon WMRP contractors to minimise disruptions to less than 3 hours.

In addition, this is the ninth year in succession, that **no** properties experienced a planned and warned interruption of **more than 12 hours** and **no** properties have experienced a planned and warned interruption of **more than 24 hours** since regulatory reporting commenced in 2007/08.

NI Water now uses a **Mobile Booster Trailer** at planned interruption events to keep customers in supply, or to greatly reduce the amount of time that customers are out of supply.

Interruptions caused by Third Parties

AIR	DG3 Properties Affected	2021/22	2022/23	2023/24
Table 2: Line 13	More than 3 hours	1,664	816	**946**
Table 2: Line 14	More than 6 hours	240	343	**27**
Table 2: Line 15	More than 12 hours	31	112	**0**
Table 2: Line 16	More than 24 hours	5	112	**0**

The AIR24 outturn of **946** properties affected by an unplanned interruption of **more than 3 hours** caused by a third party was the second lowest since regulatory reporting commenced. 9 events were responsible, the most significant of which occurred on 19th September 2023 when a gas contractor damaged a 12-inch trunk main at Ballyhannon Service Reservoir in Portadown *(ref. DG3 ID 214323)*. 350 properties experienced an interruption of between 3 hours and 6 hours as a result of the incident and it was the subject of Upward Report 010.

The AIR24 outturn of **27** properties affected by an unplanned interruption of **more than 6 hours** caused by a third party was the lowest since regulatory reporting commenced. The single event responsible, occurred on 18th April 2023 in Draperstown and was caused by a contractor who hit a main whilst installing new telegraph poles *(ref. DG3 ID 213581)*. The incident was the subject of Upward Report 002.

For the sixth time since 2007/08, **no** properties experienced an unplanned interruption of **more than 24 hours** caused by a third party. And for the twelfth time since 2007/08, **no** properties experienced an unplanned interruption of **more than 24 hours** caused by a third party.

Unplanned Interruptions (Overruns of Planned Interruptions)

AIR	DG3 Properties Affected	2021/22	2022/23	2023/24
Table 2: Line 17	More than 6 hours	89	12	**0**
Table 2: Line 18	More than 12 hours	0	0	**0**
Table 2: Line 19	More than 24 hours	0	0	**0**

For only the second time since regulatory reporting commenced in 2007/08, **no** properties experienced an overrun of **more than 6 hours**. This reflects the amount of planning that goes on in advance of warned events to ensure that enough time is allocated to their completion and that they do not overrun thus causing an inconvenience to customers.

For the sixth year in succession, **no** properties experienced an overrun of a planned and warned interruption that lasted **more than 12 hours**. And for the eighth year in succession, **no** properties experienced an overrun of a planned and warned interruption that lasted **more than 24 hours**.

Number of overruns of planned & warned interruptions lasting between 3 and 6 hours

The following table provides a summary of the **6** overruns of planned and warned interruptions lasting between 3 and 6 hours in 2023/24.

	Interrupt. No.	Month	Duration	Properties Affected			Duration Of Overrun
				> 0 hrs	> 3 hrs	> 6 hrs	
1	215335	Mar-24	3 Hrs 5 Mins	24	24	0	0 Hrs 5 Mins
2	215358	Mar-24	3 Hrs 5 Mins	27	27	0	0 Hrs 15 Mins
3	215038	Jan-24	3 Hrs 5 Mins	165	35	0	0 Hrs 30 Mins
4	214766	Dec-23	4 Hrs 0 Mins	15	15	0	1 Hr 0 Mins
5	213921	Jun-23	4 Hrs 30 Mins	46	46	0	0 Hrs 40 Mins
6	215200	Feb-24	5 Hrs 45 Mins	60	60	0	3 Hrs 0 Mins

The number of properties affected by the 6 overruns was:

24 + 27 + 35 + 15 + 46 + 60 = **207**

This number is small compared to the number of properties that experienced a planned and warned interruption of between 3 and 6 hours *(2,692)*.

Table 2 Line 9 - Table 2 Line 10 = 2,692 - 92 = **2,600**

NI Water reported in its AIR23 commentary that there were 7 overruns of planned and warned interruptions lasting between 3 and 6 hours. The number of properties affected by these overruns was 303.

Additional information on performance against alternative standards

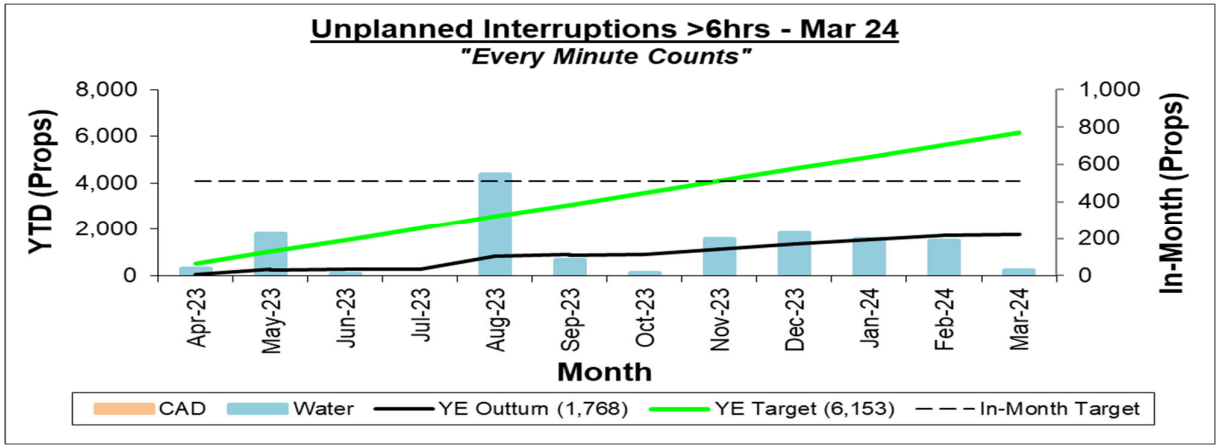
NI Water has three Key Performance Indicators relating to Supply Interruptions (DG3):-
Number of properties experiencing unplanned, unwarned interruptions (expressed as a percentage of households) in excess of:
1a) 6 hours, 1b) 12 hours, 1c) 24 hours. KPIs 1a and 1c were first introduced in April 2007. The following table provides details of the outturns for the last three years together with the corresponding yearend targets.

Interrupt Category	21/22 Outturn (inc. Dunore)		21/22 Outturn (exc. Dunore)		21/22 KPI Target		22/23 Outturn		22/23 KPI Target		**23/24 Outturn**		**23/24 KPI Target**	
	(Props)	(%)	(Props)	(%)	(Props)	(Props)	(%)	(Props)	(%)	(Props)	**(Props)**	**(%)**	**(Props)**	**(%)**
>6 hrs	13,581	1.504	1,007	0.112	6,331	0.701	1,322	0.145	6,250	0.687	**1,768**	**0.192**	**6,153**	**0.669**
>12 hrs	710	0.079	0	0.000	822	0.091	0	0.000	793	0.087	**0**	**0.000**	**773**	**0.084**
>24 hrs	12	0.001	0	0.000	80	0.009	0	0.000	80	0.009	**0**	**0.000**	**80**	**0.009**

Note: Percentage outturns in above table are based on total connected properties as follows: 902,692 (AIR22); 910,098 (AIR23); 919,190 (AIR24)

In 2023/24, NI Water achieved all three DG3 full year KPI targets. It was the Company's second best-ever DG3 performance.

The graph below shows the outturn and target profiles for numbers of properties affected by unplanned interruptions >6hrs in 2023/24.



NI Water also uses the **Average Minutes of Lost Supply per Connected Property** target to measure performance and to encourage reductions in the duration of both unplanned and planned interruptions.
In 2023/24, the Company's outturn of **5.99** minutes was the best-ever outturn for this measure.

2021/22	2022/23	**2023/24**
18.00	6.92	**5.99**

Properties which suffered an interruption to supply where NI Water considers that customers would not have noticed the loss of service, for example because it occurred at night

Assumption: Prior to AIR20, NI Water listed only those interruptions that lasted longer than 3 hours and fell in their entirety between the hours of 12 midnight and 7am. For AIR21 and AIR22, NI Water listed only those interruptions that lasted longer than 3 hours and fell in their entirety between the hours of 11pm and 8am.

For AIR23 and AIR24, the Company has listed interruptions that fell either in their entirety or partly within the hours of 11pm and 8am. Those that fell only partly had the greater part of the interruption within the hours of 11pm and 8am and the lesser part lasting 3 hours or less.

Interrupt Type	Interrupt No.	Interruption Start		Supply Restored		Duration	Properties Affected		
		Date	Time	Date	Time		>0 hrs	>3 hrs	>6 hrs
Unplanned	213615	25/04/23	22:26	26/04/23	01:30	3 Hrs 4 Mins	1	1	0
Unplanned		25/04/23	22:26	26/04/23	02:30	4 Hrs 4 Mins	16	16	0
Unplanned	213629	27/04/23	22:23	28/04/23	02:30	4 Hrs 7 Mins	18	18	0
Unplanned	213654	04/05/23	05:49	04/05/23	08:52	3 Hrs 3 Mins	8	8	0
Unplanned	213717	12/05/23	03:56	12/05/23	08:40	4 Hrs 44 Mins	174	174	0
Unplanned	213742	25/05/23	04:34	25/05/23	10:30	5 Hrs 56 Mins	29	29	0
Unplanned	213823	08/06/23	05:42	08/06/23	10:15	4 Hrs 33 Mins	2	2	0
Unplanned	214124	08/08/23	22:31	09/08/23	03:30	4 Hrs 59 Mins	58	58	0
		08/08/23	23:57	09/08/23	03:30	3 Hrs 33 Mins	41	41	0
Unplanned	214141	12/08/23	06:04	12/08/23	09:26	3 Hrs 22 Mins	65	65	0
Unplanned	214539	02/11/23	03:51	02/11/23	09:42	5 Hrs 51 Mins	8	8	0
		02/11/23	04:53	02/11/23	09:30	4 Hrs 37 Mins	15	15	0
		02/11/23	06:17	02/11/23	09:30	3 Hrs 13 Mins	2	2	0
Unplanned	214729	06/12/23	05:10	06/12/23	10:00	4 Hrs 50 Mins	9	9	0
		06/12/23	05:46	06/12/23	09:30	3 Hrs 44 Mins	6	6	0
		06/12/23	06:15	06/12/23	09:40	3 Hrs 25 Mins	18	18	0
Unplanned	214832	29/12/23	04:05	29/12/23	09:00	4 Hrs 55 Mins	19	19	0
Unplanned	214854	04/01/24	23:20	05/01/24	04:10	4 Hrs 50 Mins	4	4	0
Unplanned	215048	25/01/24	23:00	26/01/24	04:00	5 Hrs 0 Mins	6	6	0
Unplanned	215151	08/02/24	05:57	08/02/24	10:00	4 Hrs 3 Mins	33	33	0
Unplanned	215290	01/03/24	05:09	01/03/24	10:26	5 Hrs 17 Mins	16	16	0
Unplanned	215416	23/03/24	03:40	23/03/24	09:12	5 Hrs 32 Mins	10	10	0

Both Developer Services, Metering and Billing (DMB) and the Leakage function are responsible for interruptions to supply that are of a relatively short duration. Interruptions lasting less than 1 hour are not, as a rule, recorded by NI Water. Routine step tests are carried out at night to reduce the impact of loss of supply to customers and normally last no longer than 3 hours.

16 unplanned interruption events have been identified where customers would not have noticed a loss of service because it occurred at night, either in its entirety or in its greater part. As a result of these events, 558 properties experienced an interruption of more than 3

hours, representing 3.58% of properties in that time band, including those caused by a third party.

Unplanned >3hrs: (558 / (14,654 + 946)) x 100 = 3.58%

No properties experienced an interruption of more than 6 hours as a result of the events.

In 2022/23, 14 unplanned interruption events occurred in their entirety, or in their greater part, between the hours of 11pm and 8am. 590 properties were affected for more than 3 hours (3.51%) and 48 properties were affected for more than 6 hours (4.14%).

Number of properties affected by interruptions caused by loss of electrical supply

The following table provides a summary of the **7** interruption events in 2023/24 caused by electricity supply failures and lasting more than 3 hours. In each case, the interruption was unplanned. 3 events occurred on 22nd January and were the result of Storm Isha which brought widespread strong winds, particularly across the northern half of the UK. The sole event in 2023 occurred on the warmest September day on record.

No properties experienced an interruption of more than 12 hours as a result of any of the incidents.

Interrupt. No.	Date of Incident	Duration	Properties Affected					Interrupt. Type	Comments
			> 0 Hrs	> 3 Hrs	> 6 Hrs	> 12 Hrs	> 24 Hrs		
214280	08/09/23	0 Hrs 15 Mins	2	0	0	0	0	Unplanned	Electricity Supply Failure
		2 Hrs 56 Mins	42	0	0	0	0		
		3 Hrs 55 Mins	2	2	0	0	0		
215008	22/01/24	8 Hrs 23 Mins	16	16	16	0	0	Unplanned	Electricity Supply Failure
		8 Hrs 53 Mins	12	12	12	0	0		
215010	22/01/24	3 Hrs 50 Mins	23	23	0	0	0	Unplanned	Electricity Supply Failure
215011	22/01/24	10 Hrs 27 Mins	10	10	10	0	0	Unplanned	Electricity Supply Failure
215291	01/03/24	5 Hrs 34 Mins	33	33	0	0	0	Unplanned	Electricity Supply Failure
215294	01/03/24	2 Hrs 23 Mins	6	0	0	0	0	Unplanned	Electricity Supply Failure
		2 Hrs 48 Mins	16	0	0	0	0		
		3 Hrs 49 Mins	19	19	0	0	0		
		4 Hrs 18 Mins	18	18	0	0	0		
215433	26/03/24	6 Hrs 0 Mins	83	83	0	0	0	Unplanned	Electricity Supply Failure

The most significant event in terms of number of affected properties occurred on 26th March 2024 when 83 properties lost their supply for 6 hours.

The most significant event in terms of duration of interruption occurred on 22nd March 2024 when 10 properties lost their supply for 10 hours 27 minutes.

Percentage impact of interruptions caused by loss of electrical supply on annual outturns

	>3 Hrs	>6 Hrs	>12 Hrs	>24 Hrs
Number of Properties Affected by Unplanned, Unwarned Water Supply Interruptions caused by Electricity Supply Failures	216	38	0	0
Number of Properties Affected by Unplanned, Unwarned Interruptions	14,611	1,768	0	0
Percentage Impact	1.48%	2.15%	0.00%	0.00%

In 2023/24, the >3hrs and >6hrs outturns were impacted by electricity supply failures, accounting for 1.48% and 2.15% of the total numbers of properties affected by unplanned interruptions. In 2022/23, the >3hrs and >6hrs outturns were also impacted, and the percentages were 1.85% and 2.34% respectively.

Percentage impact of interruptions caused by loss of electrical supply on target compliance

	>6 Hrs	>12 Hrs	>24 Hrs
Percentage Connected Properties Affected by Electricity Supply Failures	0.004%	0.000%	0.000%
KPI Target	0.669%	0.084%	0.009%
Percentage Annual Target	0.62%	0.00%	0.00%

In 2023/24, electricity supply failures accounted for only 0.62% of the >6hrs KPI target whilst in comparison, the 2022/23 percentage was 0.50%.

Major incidents during the report year that NI Water believes adversely affected its DG3 performance

The following table provides a summary of the **17** supply interruption incidents during 2023/24 that lasted more than 3 hours and were mentioned in the Company's Upward Reports. *For full details of these incidents, please refer to the Upward Reports.*

Ref	Interrupt No.	Date	Description of Incident	Duration (longest)	>0hrs	>3hrs	>6hrs	>12hrs	>24hrs	Category
001	Event 272799; DG3 213529	04/04/2023	Burst main, Doagh Road, Kells – Craigstown DMA	6 Hrs 55 Mins	146	7	7	0	0	3
002	Event 272886; DG3 213581	18/04/2023	Burst main caused by BT contractor installing new poles – Ballybriest DMA, Draperstown	7 Hrs 11 Mins	248	98	27	0	0	3
003	Event 273081; DG3 213717	12/05/2023	Burst on 12" Cast Iron Durham Street Trunk Main, Grosvenor Road, Belfast	4 Hrs 44 Mins	1,484	179	0	0	0	3
	Event 273341; DG3 213821			2 Hrs 35 Mins	1,080	0	0	0	0	
	Event 273343; DG3 213822			2 Hrs 0 Mins	1,944	0	0	0	0	
004	Event 273352; DG3 213832	09/06/2023	Burst on outlet from Glenchuil Service Reservoir	7 Hrs 8 Mins	962	24	7	0	0	3
005	Event 273365; DG3 213839	11/06/2023	Pump Equipment Failure caused Annacloghmullin Service Reservoir to fall to low level	7 Hrs 22 Mins	282	103	1	0	0	Precautionary
006	Event 273426; DG3 213863	17/06/2023	Burst on 15" trunk main, Beersbridge Road, Belfast	4 Hrs 26 Mins	446	63	0	0	0	3

Ref	Interrupt No.	Date	Description of Incident	Duration (longest)	>0hrs	>3hrs	>6hrs	>12hrs	>24hrs	Category
007	Event 273491; DG3 213900	25/06/2023	Burst on 14” SI Ballydougan Waringstown Distribution Trunk Main	4 Hrs 9 Mins	379	46	0	0	0	3
008	**Event 274058; DG3 214240**	**31/08/2023**	**Low Water Level, Westland Service Reservoir, Belfast**	**9 Hrs 18 Mins**	**18,255**	**4,770**	**303**	**0**	**0**	**3**
	Event 274073; DG3 214249	**01/09/2023**		**6 Hrs 5 Mins**	**179**	**3**	**1**	**0**	**0**	
009	Event 274138; DG3 214279	08/09/2023	Trunk main burst, Ballywillian Road, Beltoy, Larne (difficulty locating defect due to large boulders within excavation)	11 Hrs 54 Mins	45	30	30	0	0	3
010	Event 274210; DG3 214323	19/09/2023	Gas contractor damaged 12” trunk main at Ballyhannon Service Reservoir	4 Hrs 26 Mins	4,122	350	0	0	0	3
011	Event 274352; DG3 214407	09/10/2023	Burst distribution trunk main 12” SI - Ballydougan Corcullentragh	5 Hrs 59 Mins	855	56	0	0	0	3
012	Event 274569; DG3 214539	02/11/2023	Burst main, Cloughey DMA	11 Hrs 42 Mins	486	107	82	0	0	3
013	Event 274906; DG3 214723	05/12/2023	Burst main, Carneal Road, Larne	4 Hrs 52 Mins	531	69	0	0	0	3
014	Event 274915; DG3 214729	06/12/2023	Burst trunk main on outlet of Drumaroad Chapelhill Service Reservoir	4 Hrs 50 Mins	598	108	0	0	0	3

Ref	Interrupt No.	Date	Description of Incident	Duration (longest)	>0hrs	>3hrs	>6hrs	>12hrs	>24hrs	Category
015	**Event 274975; DG3 214755**	**09/12/2023**	**Burst main, Mullaghmore Road, Dungannon**	**11 Hrs 42 Mins**	**651**	**280**	**149**	**0**	**0**	**3**
016	Event 275573; DG3 215135	07/02/2024	Burst on outlet trunk main at Ballyridley Service Reservoir	5 Hrs 56 Mins	471	135	0	0	0	3
	Event 275590; DG3 215138			2 Hrs 17 Mins	74	0	0	0	0	
	Event 275596; DG3 215151	08/02/2024	Burst	11 Hrs 44 Mins	38	38	5	0	0	
017	Event 275896; DG3 215359	12/03/2024	Burst trunk main, Tullywhisker Service Reservoir to Rakelly Service Reservoir	4 Hrs 15 Mins	61	61	0	0	0	3
	Event 275906; DG3 215364			2 Hrs 30 Mins	77	0	0	0	0	

In the years prior to 2017/18, NI Water assumed a monthly target allowance of one seventeenth of the full year target from April to October and a monthly target allowance of two seventeenths of the full year target from November to March. The allowance was doubled from November to March to account for freeze-thaw conditions and an associated rise in the numbers of bursts.

Following a review of historical annual performance profiles, the decision was taken in 2017/18 to opt for a straight-line target profile i.e. the same monthly target allowance every month. The target profile remained straight for 2023/24.

The 2023/24 KPI targets are listed below as percentages and numbers of total connected properties, together with the corresponding monthly target allowances.

KPI	2023/24 Target		Monthly Target Allowance Apr to Mar	
	%	Properties	%	Properties
>6hrs	0.669	6,153	0.056	513
>12hrs	0.084	773	0.007	64
>24hrs	0.009	80	0.001	7

In previous years, the unplanned interruption events that had the greatest negative impact on performance were determined by comparing the monthly actuals with the three KPI target profiles and identifying instances where a target was missed. In 2023/24, there were no such instances. This year, there was only one such instance which the Company has discussed along with the other five most significant events.

Major Incidents

Burst asbestos cement distribution main, Cairn Walk, Crumlin (Tullyhill Crumlin DMA)
(Ref: IMS Event ID 273026; DG3 ID 213654)

	>0hrs	>3hrs	>6hrs	>12hrs	>24hrs
Properties Affected	**454**	**409**	**226**	**0**	**0**

On Friday 4th August 2023, a burst occurred on an asbestos cement main at Cairn Walk, Crumlin affecting properties in Tullyhill Crumlin DMA. Initially, the main was repaired but began leaking again after the remedial work had been completed. Supply was maintained but at a reduced pressure and flow to allow the repair squad to collect more fittings and a length of pipe before carrying out a second more complex repair. The main had to be drained down again for the second repair and this added to the duration of interruption. Rezoning options were limited.

This event was note-worthy because of the maximum duration of interruption *(9 Hrs 43 Mins)* and the number of properties affected for more than 6 hours *(226 nr)*. The impact of the incident in terms of percentages of connected properties affected was 0.025% >6hrs.

Low Water Level at Westland Service Reservoir, Belfast
(Ref: IMS Event ID 274058; DG3 ID 214240 & IMS Event ID 274073; DG3 ID 214249)

	>0hrs	>3hrs	>6hrs	>12hrs	>24hrs
Properties Affected	**18,434**	**4,773**	**304**	**0**	**0**

On Thursday 31st August 2023, an incident occurred at Westland SR, Belfast as a result of maintenance work whereby a valve was accidently closed. A valve chamber was flooded which prevented the quick operation of the valve and subsequently prolonged the interruption to customers located in DMAs downstream of the reservoir. A tanker had to be deployed to drain the chamber to allow access to the valve. All possible rezoning options were considered to minimise disruption to customers. A total of 31 individual DMAs were affected and it was the most significant incident of the year in terms of the overall number of properties involved. Where available, telemetry pressure data was used for the review, else customer call data. This is well documented on the Incident Management System with a DMA-by-DMA summary. The incident was the subject of **Upward Report 008.**

This event was note-worthy because of the maximum duration of interruption *(9 Hrs 18 Mins)* and the number of properties affected for more than 6 hours *(304 nr)*. The impact of this incident in terms of percentages of connected properties affected was 0.033% >6hrs.

Burst on cast iron distribution main, Holywood Road, Belfast
(Edgecombe Gardens DMA)
(Ref: IMS Event ID 274062; DG3 ID 214247)

	>0hrs	>3hrs	>6hrs	>12hrs	>24hrs
Properties Affected	**772**	**418**	**227**	**0**	**0**

Also on Thursday 31st August 2023, a burst occurred on a cast iron distribution main at Holywood Road, Belfast affecting properties in the Ballymaghan area.

This event was note-worthy because of the maximum duration of interruption *(7 Hrs 3 Mins)* and the number of properties affected for more than 6 hours *(227 nr)*. The impact of this incident in terms of percentages of connected properties affected was 0.025% >6hrs.

Burst on pvc pumping main, Knockmany Road, Clogher
(Ballagh Fogart DMA)
(Ref: IMS Event ID 274698; DG3 ID 214607)

	>0hrs	>3hrs	>6hrs	>12hrs	>24hrs
Properties Affected	**207**	**137**	**113**	**0**	**0**

On Sunday 12th November 2023, a burst occurred on a pvc pumping main at Knockmany Road, Clogher.

This event was note-worthy because of the maximum duration of interruption *(8 Hrs 42 Mins)* and the number of properties affected for more than 6 hours *(113 nr)*. The impact of this incident in terms of percentages of connected properties affected was 0.012% >6hrs.

Burst on 8-inch pvc distribution main, Mullaghmore Road, Dungannon (Altmore Ten DMA)
(Ref: IMS Event ID 274975; DG3 ID 214755)

	>0hrs	>3hrs	>6hrs	>12hrs	>24hrs
Properties Affected	**651**	**280**	**149**	**0**	**0**

On Saturday 9th December 2023, a burst occurred on an 8-inch pvc distribution main at Mullaghmore Road, Dungannon. Rezoning from Killymeal WPS was undertaken at 09:45. All rezoning options were implemented, and the vast majority of customers were returned to supply. The repair proved to be extremely difficult due to its location on the carriageway and the density of asphalt on the road. The incident was the subject of **Upward Report 015.**

This event was note-worthy because of the maximum duration of interruption *(11 Hrs 42 Mins)* and the large number of properties affected for more than 6 hours *(149 nr)*. The impact of this incident in terms of percentages of connected properties affected was 0.016% >6hrs.

Burst on spun iron distribution main, Ballyblack Road, Newtownards (Ballyblack DMA)
(Ref: IMS Event ID 275586; DG3 ID 215136)

	>0hrs	>3hrs	>6hrs	>12hrs	>24hrs
Properties Affected	**121**	**121**	**121**	**0**	**0**

On Wednesday 7th February 2024, a burst occurred on a spun iron main at Ballyblack Road, Newtownards, following mains rehabilitation work in the area.

This event was note-worthy because of the maximum duration of interruption *(7 Hrs 39 Mins)* and the number of properties affected for more than 6 hours *(121 nr)*. The impact of this incident in terms of percentages of connected properties affected was 0.013% >6hrs.

Note: As always, NI Water has fully assessed the issues that led to each of the above events as well as the ways in which the events were managed from an operational perspective and has developed a series of actions aimed at mitigating the impact of similar events.

Justification of the assigned confidence grades including an explanation for any changes in confidence grades from previous years
The AIR09 Reporter recommended the use of consistent confidence grades across all lines relating to DG3. On 4th July 2014, NI Water first introduced the Incident Management System *(IMS)* as a replacement for the Operations Management Information System *(OMIS)* to capture data relating to supply interruptions. In 2015/16, the Company increased its DG3 confidence grade from ‘B3’ to ‘A3’ because it was the first full year in which IMS had been used instead of OMIS.

IMS has now been used to capture nine complete years’ worth of data and again, the Company has assigned a confidence grade of ‘A3’ across all lines relating to DG3. The Company continues to develop the system on an annual basis by seeking suggestions from its key users and making the necessary modifications to improve the usability and functionality of the system as well as ensuring that growing requirements are met across all areas of the business.

Justification of Reliability Band 'A'

IMS is regarded as a better system than OMIS and has the following benefits:

- Improved customer response times
- Improved consistency of methodology across all work streams
- Improved accuracy of information through:
    - the recording of start times by Work Controllers/Telemetry Operators
    - the recording of individual start and restoration times for each property as opposed to each event
    - the recording of times to the nearest minute
- Improved utilisation of other key systems e.g. the GIS as a source of address information
- Improved auditability of information through query, change and approval status tracking
- Better management of approval chains through the automatic generation of e-mailed reminders
- Improved report generation
- Improved accessibility and sharing of information across the business
- Enhanced effectiveness of the DG3 Register through the capture of additional information such as pipe material and diameter and the GIS co-ordinates of bursts

IMS is working exactly as it should by ensuring the capture of a greater number of interruption events and a greater number of affected properties associated with those events. All interruption events are fully documented to a consistent standard. Every interruption record includes the category, cause, key dates and times, address details, and property counts necessary to meet the regulatory reporting requirements of a DG3 Register. The cause of interruptions is identified by experienced field staff or contractors.

Justification of Accuracy Band '3' – Rapid Data and IMS Data Comparison

'No Water' Complaints

The following table lists the outturn numbers of 'no water' complaints derived from Rapid data for the last three years.

'No Water' Complaints	**2021/22 inc. Dunore TM burst**	***2021/22 exc. Dunore TM burst***	**2022/23 inc. Freeze/ Thaw**	***2022/23 exc. Freeze/ Thaw***	**2023/24 inc. Westland SR incident**	***2023/24 inc. Westland SR incident***
Complaints (nr)	20,059	*18,919**	20,103	*18,784***	18,956	*17,996****
Difference	+493	*-647*	+1,184	*-135*	+172	*-788*
% Difference	+2.5%	*-3.3%*	+6.3%	*-0.7%*	+0.9%	*-4.2%*
Trend	Increase	*Decrease*	Increase	*No Change*	No Change	*Decrease*

**Excludes 1,140 complaints associated with Dunore pumping main burst in July 2021*
***Excludes an estimated 1,319 complaints associated with Freeze/Thaw in December* 2022
****Excludes 960 complaints associated with Westland SR incident in August 2023*

From 1st to 30th August 2023, 1,510 'no water' complaints were received but on 31st August, the day of the Westland Service Reservoir incident, 1,034 complaints were received, 960 from the Belfast area.

When the 'no water' complaint outturns for the last three years are compared, including adjustments for the Dunore pumping main burst in July 2021, the Freeze/Thaw in December 2022 and the Westland SR incident in August 2023, the figures are very similar.

Unplanned Interruption Events >0 Hours (excluding those caused by a third party)

The following table lists the outturn numbers of unplanned interruption events derived from IMS data for the last three years.

Unplanned Events >0hrs	2021/22	2022/23	2023/24
Events (nr)	1,626	1,544	1,484
Difference	-95	-82	-60
% Difference	-5.5%	-5.0%	-3.9%
Trend	Decrease	Decrease	Decrease

The annual numbers of 'no water' complaints and unplanned interruption events recorded on the Company's Incident Management System (IMS) should display similar trends since the two measures are closely related. The table above confirms a 3.9% decrease in unplanned interruptions compared to a 4.2% decrease in complaints. As the percentage decrease is similar for both events and complaints, NI Water believes that it is continuing to capture all interruption events and that the reducing trend is as expected.

Last year, NI Water noted a 5% decrease in the outturn number of unplanned interruption events >0hrs compared to only a 0.7% decrease in complaints. The difference in trends was attributed to a change in work practices and the way in which bursts and other, less common causes of interruption are now managed. New initiatives introduced under NI Water's **ITS Strategy** are helping to reduce the overall number of interruptions and when an interruption is still inevitable, for example, when bursts occur in single supply zones with rezoning limitations, these initiatives are helping to reduce the average duration of interruption and average number of affected properties per event. As a result of these changes, DG3 performance is improving and customers are benefitting by experiencing less inconvenience and disruption to their supply.

The average number of 'no water' complaints received per unplanned interruption event continues to be a good indication of the completeness of the Company's data and whether or not, the details of all such events are being captured by the Company's systems.

	2021/22	2022/23	2023/24
Complaints per Event	11.6	12.2	12.1

Over 1,000 'no water' complaints were associated with the Dunore Trunk Main burst event in July 2021. Over 1,000 'no water' complaints were associated with the Freeze/Thaw event in December 2021. And 960 complaints were associated with the Westland SR incident. With those events excluded from the analysis, the statistics show that in the last three years, the outturns were between 11.6 and 12.2. On this basis, the conclusion is that the accuracy of the data remains consistent and inclusive of all interruption events.

Audit Checks

NI Water carries out a number of audit checks, aimed at ensuring that the data in its Annual Information Return is both reliable and accurate and that the confidence grade is justified. The audit checks ensure that affected properties have been reported under the correct category of interruption and that reporting is in accordance with the regulatory guidance and definitions.

During the year, the Water function within the Customer & Operations Directorate generated a total of 263 records of interruption events lasting more than 3 hours. All records were checked for accuracy and completeness by the Field Managers as part of the approval process. Following the extraction of data to spreadsheets, checks were carried out by C&O Services to ensure that the data remained consistent with IMS and that no records had been inadvertently deleted or duplicated during migration between worksheets.

During the year, Capital Asset Delivery generated a total of 28 records of interruption events lasting more than 3 hours. A random sample of 24 records was checked against the corresponding Interruption Record Sheets to ensure that the details had been accurately transcribed. This represents 86% of records.

Throughout 2023/24, the Company has continued to review its records of 'no water' complaints when determining the details of supply interruptions. And the Company has carried out checks to ensure consistency between IMS and the Upward Reporting process relating to unplanned interruption events lasting more than 3 hours.

The Company also continues to monitor the warning notification process followed by its contractors for planned and warned interruptions and has carried out sample checks to confirm that customers were provided with at least 48 hours warning in advance of planned and warned interruptions to supply.

Line 20 - Population (winter)

Note: All calculations relating to Line 20 were originally performed with the aid of a spreadsheet. For the purposes of the commentary, figures have been rounded and may give rise to rounding errors if used.

Estimation of Non-Resident Visitor Nights in 2023

The AIR24 methodology involves three separate applications of the monthly occupancy figures for hotels and small service accommodation *(formerly known as guest houses/B&Bs)*. The first involves an application of the monthly occupancy figures for the period January 2019 to December 2019 *(see table below)* along with the number of non-resident visitor nights for the same period *(**still** the last available published figure)* in order to determine the relationship between the two datasets. Please refer to the following NISRA publications:

- *Northern Ireland Monthly Hotel Occupancy – Table 3 (Publication Date: 11/04/24)*
- *Northern Ireland Monthly Small Service Accommodation Occupancy – Table 2 (Publication Date: 11/04/24)*

MONTH	HOTEL BED-SPACES SOLD	SMALL SERVICE ACCOMMODATION BED-SPACES SOLD	TOTAL BED-SPACES SOLD
Jan-19	232,216	31,508	263,724
Feb-19	274,402	38,899	313,301
Mar-19	308,143	45,317	353,460
Apr-19	291,591	66,338	357,929
May-19	353,957	75,838	429,795
Jun-19	381,005	96,859	477,865
Jul-19	408,819	113,966	522,786
Aug-19	444,286	124,899	569,185
Sep-19	344,568	81,511	426,079
Oct-19	328,592	66,397	394,989

Nov-19	292,004	50,024	342,028
Dec-19	292,224	34,837	327,061
Total	**3,951,808**	**826,394**	**4,778,202**

Total bed-spaces sold (Jan 19 to Dec 19) = 4,778,202

Ref: Country of Residence worksheet of the NISRA publication *'Northern Ireland Tourism Statistics Microdata (January 2011 – December 2019)'* dated 22/09/2020.

- *'Estimated Overnight Trips taken in Northern Ireland by Country of Residence, Q1 2011-Q4 2019'*

Non-resident visitor nights (Jan 19 to Dec 19) =
5,710,332 *(GB visitors)* + 1,858,509 *(RoI visitors)* + 4,246,082 *(outside UK & RoI visitors)* = 11,814,924

11,814,924 / 4,778,202 = 2.473

Based on data for the period January 19 to December 19, the number of non-resident visitor nights was found to be 2.473 times that of the number of bed-spaces sold for hotels and small service accommodation.

The second application of the monthly occupancy figures for hotels and small service accommodation involves an application of the data for the period January 2023 to December 2023 *(see table below)* and the relationship determined above in order to estimate the number of non-resident visitor nights for the same period. Please refer to the following NISRA publications:

- *Northern Ireland Monthly Hotel Occupancy – Table 3 (Publication Date: 11/04/24)*
- *Northern Ireland Monthly Small Service Accommodation Occupancy – Table 2 (Publication Date: 11/04/24)*

MONTH	HOTEL BED-SPACES SOLD	SMALL SERVICE ACCOMMODATION BED-SPACES SOLD	TOTAL BED-SPACES SOLD	PERCENTAGE OF BED-SPACES SOLD IN 2020
Jan-23	232,478	61,868	294,346	6.05%
Feb-23	252,956	59,614	312,570	6.43%
Mar-23	292,879	67,428	360,307	7.41%
Apr-23	340,664	85,903	426,567	8.77%
May-23	340,877	98,618	439,495	9.04%
Jun-23	372,562	113,759	486,321	10.00%
Jul-23	374,694	114,183	488,876	10.05%
Aug-23	402,393	102,299	504,692	10.38%
Sep-23	348,587	103,684	452,271	9.30%
Oct-23	331,935	89,549	421,485	8.67%
Nov-23	258,873	65,640	324,513	6.67%
Dec-23	294,516	56,845	351,361	7.23%
Total	**3,843,412**	**1,019,390**	**4,862,802**	**100.00%**

Total bed-spaces sold (Jan 23 to Dec 23 = 4,862,802

Estimated non-resident visitor nights (Jan 23 to Dec 23) =
4,862,802 x 2.473 = 12,024,112

Having estimated the number of non-resident visitor nights in 2023, all components of the Winter Population calculation are now available and the remainder of the methodology is similar to previous years.

The third and final application of the monthly occupancy figures for hotels and small service accommodation involves an application of the data for the period January 2023 to December 2023 *(see table above)* in order to calculate the percentages of bed-spaces sold per month in 2023 and hence, the percentage of bed-spaces sold during the winter months.

Assumption: The regulatory guidance for AIR Table 2 Line 20 does not define the meaning of *'winter'*. In previous submissions using this methodology, the winter months were deemed to be the six months in the year with the lowest percentage bed-spaces sold. The percentage bed-spaces sold during the winter was the summation of the percentages for these six months.

Based on this assumption and the above table of percentages of bed-spaces sold per month in 2023, the percentage of bed-spaces sold during the winter was:

6.05 + 6.43 + 7.41 + 8.67 + 6.67 + 7.23 = 42.46%

Assumption: There is a direct relationship between bed-spaces sold and non-resident visitor nights.

Estimated non-resident winter visitor nights in 2023 =

(12,024,112 / 100) x 42.46 = 5,105,031

According to AIR24: Table 7: Line 17, the baseline resident population was 1,919.12 x 10^3.

Using the baseline resident population and the estimated non-resident winter visitor nights above, the winter population was estimated as follows:

Estimated average non-resident winter visitors per night =
5,105,031 / (31 + 28 + 31 + 31 + 30 + 31) = 28,050

Population (winter) = 1,919,120 + 28,050 = **1,947,170**.

Changes in Methodology

Background

The Winter Population is the resident population (water) plus the average non-resident population on any given day during the six winter months of the year. The methodology for calculating the average non-resident population relies heavily on the ability to source a figure from available tourism statistics for the number of **non-resident visitor nights**. In the past, this figure has been available for either the most recent calendar year *(as in the case of AIR17)* or only part of the most recent calendar year *(as in the cases of AIR18, AIR19 and AIR20),* but not the financial year in question.

These limitations have caused NI Water to base its reporting of the Winter Population on a calendar year and to estimate the number of non-resident visitor nights in the calendar year when the figure has not been readily available. Estimates are based on the assumption that there is a direct relationship between the number of non-resident visitor nights and the occupancy figures for hotels and small service accommodation.

AIR24 Methodology

Continuing Impact of Covid-19 Pandemic on Northern Ireland Tourism Statistics

Tourism data is derived from a variety of sources and the COVID-19 pandemic has had a significant effect. Due to data collection issues and the quality and quantity of some data, NISRA has suspended National Statistics status for tourism data until further notice. As such, the latest full National Statistics annual accredited publication is still the 2019 edition. National Statistics status guarantees the highest standards of trustworthiness, quality and public value.

In view of the circumstances highlighted above, NI Water has continued to use the last available National Statistics accredited figure for non-resident visitor nights i.e. the figure for the 12-month period from January to December 2019 and has estimated the annual number of non-resident visitor nights in 2023.

Impact of Change in AIR24 Methodology on Reported Outturn

The change in methodology described above is not believed to have had a significant impact on the reported outturn. This can be illustrated by examining the impact that an estimate has on the calculation for Jul 18 to Jun 19 when the estimate is based on the established relationship between non-resident visitor nights and bed-spaces sold.

Ref: Tables 1.3 and 1.2 of the NISRA publications '*Northern Ireland Tourism Statistics Tables (2011 – 2020)'* dated 18/02/2021.

Total bed-spaces sold (Jul 18 to Jun 19) = 4,645,321

Estimated non-resident visitor nights (Jul 18 to Jun 19) =
4,645,321 x 2.473 = 11,486,354

Ref: Country of Residence worksheet of the NISRA publication *'Northern Ireland Tourism Statistics Microdata (January 2011 – December 2019)'* dated 22/09/2020.

- *'Estimated Overnight Trips taken in Northern Ireland by Country of Residence, Q1 2011-Q4 2019'*

Actual non-resident visitor nights (Jul 18 to Jun 19) = 12,098,471

Difference between actual and estimate =
12,098,471 - 11,486,354 = 612,116

Percentage difference = 612,116 / 12,098,471 x 100 = 5%

As the difference between the actual and estimate is within the tolerance of any previously assigned confidence grading for this measure i.e. between 1% and 5%, this is deemed to be a suitable method for estimating the number of non-resident visitor nights.

Significant year on year changes in reported figures including an explanation of any factors that may have influenced the figures

AIR22	Confidence Grade	AIR23	Confidence Grade	AIR24	Confidence Grade
1,910.42 x 10^3	C2	1,939.70 x 10^3	C2	**1,947.17 x 10^3**	**C2**

Update on AIR19 Reporter Recommendation

The AIR19 Reporter recommended that in the absence of a published figure for the number of non-resident visitor nights for the year in question, NI Water was to recalculate the Winter Population when a published figure became available and include an update on the impact of any change in the commentary for the following year.

Unfortunately, it has not been possible to recalculate the AIR23 outturn ahead of AIR24 as the most recently published figure for the number of non-resident visitor nights is **still** the figure for 2019 which was used to recalculate the AIR20 outturn and which was used to estimate the AIR21 to AIR24 outturns. NI Water will recalculate the historical outturns when the corresponding numbers of non-resident visitor nights are confirmed by NISRA.

Last year, the Company reported a Table 2 Line 20 outturn of 1,939.70 x 10^3. Based on the AIR24 outturn of 1,947.17 x 10^3, the estimated winter population has increased by 7.47 x 10^3 *(0.39%)*. This slight increase can be attributed to the overall impact of changes in the component figures that make up the figure.

Although the estimated number of hotel bed-spaces sold in 2023 was 168,367 lower than the 2022 estimate and as a result, the estimated number of non-resident visitor nights was also lower, the 2023/24 baseline resident population of 1,919.12 was higher than the 2022/23 outturn of 1,912.09. And the 2023 estimate of 1,019,390 small service accommodation bed-spaces sold was also higher than the 2022 estimate of 952,391.

Factors impacting on tourism and winter population trends

Risks to the tourism outlook remain amid turmoil in the financial sector, persistently high core inflation, uncertainty around the impact of Russia's invasion of Ukraine and the aftermath of three years of COVID.
According to Issue 7 of the Tourism Northern Ireland publication 'Tourism 360^0':

- Cost-of-living pressures, interest rate hikes and an uncertain economic future continue to take their toll on the tourism industry, with many consumers remaining cautious and spending less.
- The guesthouse, guest accommodation and B&B sector has been progressing better than hotels in its recovery from the effects of the pandemic.
- In the first quarter of 2023, international tourist arrivals reached 80% of pre-pandemic levels with strong results expected for the summer season, backed by robust pent-up demand, the sustained recovery of air connectivity, and the reopening of China and other major Asian markets and destinations.
- At the time of publication, the World Travel and Tourism Council were forecasting that by the end of 2023, nearly half of the 185 countries would have either fully recovered to pre-pandemic levels or would be within 95% of full recovery.

Confidence Grade

Population (winter) is an estimate based on several sources of information:

1. The NISRA publications *'Northern Ireland Monthly Hotel Occupancy' and 'Northern Ireland Monthly Small Service Accommodation Occupancy'* provide only an estimate of the monthly numbers of bed-spaces sold, based on the extrapolation of data for a representative sample group of establishments.
2. The NISRA publication *'Northern Ireland Tourism Statistics Microdata (January 2011 – December 2019)'* provides only an estimate of the quarterly numbers of non-resident visitor nights, based on sample surveys. The estimate therefore has an associated degree of sampling error, determined both by the sample design and by the sample size. Sample surveys include the Northern Ireland Passenger Survey (NIPS) conducted by

the Northern Ireland Statistics and Research Agency (NISRA), the Survey of Overseas Travellers (SOT) conducted on behalf of Fáilte Ireland and the Household Travel Survey (HTS) conducted by Central Statistics Office (CSO).

NI Water has assigned a confidence grade of **C2** to account for known deficiencies in the reliability and accuracy of the reported figure. Although there have been changes in the methodology, data confidence is still believed to be comparable to previous years.

The "2" has been assigned because even if all visits occurred in the winter, the difference in the calculated winter population would be 38,017 *(+1.95%)*. *(see calculation below)*

12,024,112 / (31 + 28 + 31 + 31 + 30 + 31) = 66,067 non-resident visitors
1,919,120 + 66,067 = 1,985,187 residents + non-resident visitors
1,985,187 - 1,947,170 = 38,017
(38,017 / 1,947,170) x 100 = 1.95%

Unlike some areas of GB where the seasonal influx of tourists and associated variation in population is considerable, the annual number of non-resident visitors to Northern Ireland is normally so small in comparison to the number of resident visitors that the impact of the inclusion of this figure and its correct apportionment between summer and winter has very little impact on any calculations and is always, well within the tolerance of any accuracy band assigned by NI Water.

At the time of reporting on AIR24, the most recent non-resident visitor nights figure available was for 2019 and a figure for 2023 had to be estimated. When reporting on AIR25, NI Water will recalculate the AIR24 outturn if a published figure for 2023 is available.

Lines 21-23 DG4 Restrictions on use of water

Hosepipe restrictions are defined as applying to those area(s) where legal notification has been published restricting the use of handheld hosepipes. This will normally be via notifications in the press that the use of hosepipes is banned.

Drought Orders: The population affected by Drought Orders shall include all areas where Drought Orders under Part V Chapter 1 and Schedule 5 of the Water and Sewerage Services (NI) Order 2006 have been approved by the Minister and implemented by the company.

Sprinkler/unattended hosepipe restrictions are defined as applying to those area(s) where legal notification has been published restricting the use of sprinklers/unattended hosepipes. This will normally be via notifications in the press that the use of sprinklers/unattended hosepipes is banned.

Outturns and Confidence Grades

There were no hosepipe restrictions, drought Orders or sprinkler/unattended hosepipe restrictions during the 2023/24 reporting year and therefore, the percentage population experiencing DG4 Restrictions on Use of Water is 0.0% for Lines 21, 22 and 23.

Also therefore, no detailed timetables for hosepipe restrictions have been necessary and the recording template has a Nil return.

Other calculations would have been based on information provided by Asset Information Development and on connected population figures supplied in Table 7, Lines 13-16 but

excluding Lines 14 & 16 for the Billed and Measured population. The total population would be taken from Table 2 Line 20 (winter population).

Line	Description	Calculation
21	% population - hosepipe restrictions	population hosepipe restrictions x 100 / total population (winter)
22	% population - drought orders	population drought orders x 100 / total population (winter)
23	% population- sprinkler/unattended hosepipe restrictions	population sprinkler/unattended hosepipe restrictions x 100 / total population (winter)

Line	Value	Calculation
21	0.0%	0 x 100 / Table 2 Line 20
22	0.0%	0 x 100 / Table 2 Line 20
23	0.0%	0 x 100 / Table 2 Line 20

The reliability assessments of “A” are based on the established procedures for the making of any order to prohibit or restrict the use of water. The accuracy assessments of “1” are a reflection that none of the population was affected by restrictions during the report period.

Hose pipe restrictions

Area affected	None
Population affected (000s)	000.0
Date imposed	N/A
Date lifted	N/A
Total duration (weeks)	N/A

Sprinkler/unattended hosepipe restrictions

Area affected	None
Population affected (000s)	000.0
Date imposed	N/A
Date lifted	N/A
Total duration (weeks)	N/A
Licensed users	n/a*

*n/a – company does not operate a sprinkler licence system

Future Reporting

Northern Ireland Water will continue to develop a series of revised DG4 procedures which clarifies the reporting requirements and definitions and the responsibilities of those involved in the reporting process. An Information Management Systems project Board and team is

continuing to consider further development of existing reporting systems to capture DG4 events on a stand-alone basis. This will provide a more detailed breakdown and audit trail of areas affected if any restrictions are not applied Province wide.

The following documents outline in more detail the monitoring and recording processes that are currently in place:

1. NIW – DG4 Procedures May 2024
2. Water Shortage Management Process Guidelines 2019
3. DG4 – Recording of Affected Populations and Durations for AIR24

Annex A – Line Methodology for Table 2

A) Properties Receiving Pressure/Flow Below Reference Level

Line 1 – Total Connected Properties at Year End

The total number of properties (domestic and non-domestic) connected to the distribution system at the end of the 2023/2024 reporting year. This includes properties, which are connected but not billed (for example, temporarily unoccupied), but excludes properties which have been permanently disconnected (for example logical demolitions).

This figure is calculated from the Rapid Property Summary for AIR23 (dated 31st March 2023) as attached.


RPS March 24.xlsx

Total Connected properties at Year End	AIR24
Non-Household Unmeasured	15524
Non-Household Measured	78734
Household Unmeasured	770591
Household Measured – Not Charged (test meters)	5
Household Measured	49850
Household Measured – No meter	0
Household Site Meters	4469
Household Unmeasured – Not Charged	17
Total Connected Properties at Year End	**919190**

NORTHERN IRELAND WATER LIMITED - ANNUAL INFORMATION RETURN

ANNUAL INFORMATION RETURN - TABLE 3 KEY OUTPUTS
SEWERAGE SERVICE - INTERNAL FLOODING (TOTAL)

	DESCRIPTION	UNITS	DP	1 REPORTING YEAR 2015-16	CG	2 REPORTING YEAR 2016-17	CG	3 REPORTING YEAR 2017-18	CG	4 REPORTING YEAR 2018-19	CG	5 REPORTING YEAR 2019-20	CG	6 REPORTING YEAR 2020-21	CG	7 REPORTING YEAR 2021-22	CG	8 REPORTING YEAR 2022-23	CG	9 REPORTING YEAR 2023-24	CG	10 REPORTING YEAR 2024-25	CG	11 REPORTING YEAR 2025-26	CG	12 REPORTING YEAR 2026-27	CG
A	**DG5 ANNUAL FLOODING SUMMARY**																										
1	Number of domestic properties connected to sewerage system	000	1	638.1	A2	648.6	A2	657.9	A2	668.3	A2	677.1	A2	685.0	A2	692.1	A2	698.8	A2	702.9	A2						
	(I) OVERLOADED SEWERS																										
2	Properties flooded in the year (overloaded sewers)	nr	0	3	B2	3	B2	0	B2	7	B2	0	B2	0	B2	7	B2	1	B2	3	B2						
3	Flooding incidents in the year (overloaded sewers)	nr	0	4	B2	3	B2	0	B2	0	B2	0	B2	0	B2	6	B2	14	B2	9	B2						
4	Flooding incidents (overloaded sewers attributed to severe weather)	nr	0	1	B2	2	B2	0	B2	7	B2	0	B2	3	B2	6	B2	13	B2	6	B2						
4a	Properties flooded in the year attributed to severe weather	nr	0	1	B2	2	B2	0	B2	7	B2	0	B2	3	B2	7	B2	13	B2	6	B2						
5	Props. where flooding limited to uninhabited cellars only (o/loaded sewers)	nr	0	0	B2	0	B2	0	B2	0	B2	0	B2	0	B2	0	B2	0	B2	0	B2						
	(ii) OTHER CAUSES																										
6	Properties flooded in the year (other causes)	nr	0	38	B2	47	B2	33	B2	23	B2	24	B2	16	B2	30	B2	29	B2	36	B2						
7	Properties which have flooded more than once in the last ten years (other causes)	nr	0	11	B2	21	B2	20	B2	21	B2	24	B2	26	B2	24	B2	23	B2	24	B2						
8	Flooding incidents (other causes - equipment failures)	nr	0	1	B2	1	B2	0	B2	2	B2	4	B2	0	B2	0	B2	0	B2	1	B2						
9	Flooding incidents (other causes - blockages)	nr	0	34	B2	38	B2	26	B2	17	B2	6	B2	11	B2	18	B2	15	B2	23	B2						
10	Flooding incidents (other causes - collapses)	nr	0	3	B2	8	B2	7	B2	4	B2	14	B2	5	B2	12	B2	14	B2	12	B2						
11	Props. where flooding limited to uninhabited cellars only (other causes)	nr	0	0	B2	0	B2	0	B2	0	B2	0	B2	0	B2	0	B2	1	B2	1	B2						
B	**DG5 PROPERTIES ON THE AT RISK REGISTER**																										
	(i) SUMMARY																										
12	2 in 10 register at end of year	nr	0	59	B2	61	B2	57	B2	57	B2	55	B2	50	B2	52	B2	49	B2	47	B2						
13	1 in 10 register at end of year	nr	0	7	B2	6	B2	4	B2	2	B2	2	B2	0	B2	1	B2	0	B2	0	B2						
14	Total 1 in 10 and 2 in 10 properties on the register at end of year	nr	0	66	B2	67	B2	61	B2	59	B2	57	B2	50	B2	53	B2	49	B2	47	B2						
15	1 in 20 register at end of year	nr	0	94	B2	89	B2	73	B2	65	B2	62	B2	58	B2	54	B2	53	B2	33	B2						
15a	Potential risk of property flooding identified requiring further investigation to assess at risk category	nr	0	1	B2	2	B2	0	B2	1	B2	2	B2	0	B2	0	B2	0	B2	0	B2						
16	Props. on the register which have not flooded in the past 10 yrs (excl. severe weather)	nr	0	22	B2	27	B2	26	B2	11	B2	19	B2	22	B2	27	B2	29	B2	27	B2						
17	Properties which have not flooded internally but suffer restricted toilet use (RTU)	nr	0	0	B2	0	B2	0	B2	1	B2	1	B2	1	B2	4	B2	4	B2	4	B2						
	(iii) ANNUAL CHANGES TO 2 IN 10 & 1 IN 10 REGISTERS																										
22	Removed by company action	nr	0	3	B2	3	B2	6	B2	4	B2	1	B2	10	B2	1	B2	2	B2	0	B2						
23	Removed because of better information	nr	0	2	B2	1	B2	0	B2	2	B2	0	B2	2	B2	0	B2	0	B2	5	B2						
24	Added because of better information (actually flooded)	nr	0	3	B2	3	B2	0	B2	1	B2	0	B2	0	B2	3	B2	2	B2	3	B2						
25	Added because of better information (modelled)	nr	0	0	B2	2	B2	0	B2	3	B2	0	B2	6	B2	0	B2	0	B2	0	B2						
26	Average capex cost of permanent solutions to 1 in 10 & 2 in 10 DG5 problems	£000/prop	1	230.0	B2	32.8	B2	184.5	B2	577.4	B2	56.0	B2	301.0	B2	93.0	B2	1997.0	B2	0.0	B2						
	(v) ANNUAL CHANGES TO THE 1 IN 20 REGISTER																										
30	Removed by company action (1 in 20)	nr	0	4	B2	4	B2	11	B2	5	B2	0	B2	1	B2	2	B2	1	B2	16	B2						
31	Removed because of better information (1 in 20)	nr	0	11	B2	1	B2	5	B2	5	B2	4	B2	3	B2	2	B2	0	B2	4	B2						
32	Added because of better information (actually flooded - 1 in 20)	nr	0	1	B2	0	B2	0	B2	0	B2	0	B2	0	B2	0	B2	0	B2	0	B2						
33	Added because of better information (modelled - 1 in 20)	nr	0	0	B2	0	B2	0	B2	2	B2	0	B2	0	B2	0	B2	0	B2	0	B2						
34	Average capex cost of permanent solutions to 1 in 20 DG5 problems	£000/prop	1	272.9	B2	38.8	B2	216.6	B2	482.1	B2	0.0	B2	593.8	B2	58.0	B2	1997.0	B2	532.5	B2						

Table 3 - Key Outputs – Sewerage Service – Internal Flooding

Line 1 – Number of Domestic Properties Connected to the Sewerage System

NI Water's data on property counts and classifications is reported monthly from RapidXtra within the Rapid Property Summary (RPS). The data is extracted from the Diamond Warehouse via Microsoft SQL Server to produce the RPS report.

Our AIR24 methodology has remained consistent with previous years – using the automated Property Model tool to populate Table 3 figures (this was first introduced in AIR12 – the RPS as the input).

The RPS provides us with a snapshot at the end of each month in terms of net movement; however it alone does not support in the explanation of gross movements within the data. With this in mind, during the 2023/24 reporting year the C&OD Services MI & Data Team explored the use of Power BI to re-create the RPS with a drill down function to display the gross movement. The Power BI property models developed take their direct feed from the Diamond Warehouse in order to refresh. These models provide us with information on gross movements and allow us to 'slice and dice' the data from various angles, providing invaluable insights. The plan is to further enhance and incorporate these models across the business during 2024/25.

Customer/Property information is updated through:

- BAU ('business as usual') customer contacts, such as new connection requests, customer move in/move outs, or
- through Data Quality initiatives/Projects, and/or
- Metering work streams e.g. UNHH (Selectives), Optants, and Proactive Meter Exchange etc.

Under the Water & Sewerage Services (2006) Order, NI Water were required to install meters on all new household connections from April 2007. This practice has stopped as directed by a change in legislation, which took effect in July 2016. The legislation was amended by Regulations, which in effect relieved NI Water of the obligation to install meters at newly connected domestic properties. As domestic customers are not charged on a measured basis, the property is reported as unmeasured. Some domestic properties were initially reported as measured in AIR10 but this was rectified as per the erratum to AIR10. Depending on the basis for charging when domestic billing is introduced, these customers can be activated as measured household if required.

Data on population continues to be obtained from Northern Ireland Statistics and Research Agency (NISRA), adjusted for the winter months based on information published by the Department for Economy (DFE) and the Central Statistics Office (CSO), Ireland.

The difference between the AIR23 and the AIR24 figure is 4,023. The breakdown can be explained as follows;

1. New Connections during the 2023/24 reporting year. The figures are based on data supplied by our Customer Connections Team and represent completed connections during the reporting year. The projections for New Connections remain in line with the agreed PC21 forecasts, however, if we notice an upturn or downturn, we will review and amend (during the compilation of the Principal Statement)

2. As a result of a customer contact, e.g. septic tank empty request, no water complaint, blocked sewer, updating of standing data e.g. removal of services etc. Within this category there are 2 scenarios:
    (a) The adding of properties NI Water allegedly did not know about
    (b) The adding of duplicates as the customer's address could not be found on Rapid. Rapid may hold the site number but when the customer contacts NI Water, they quote the verified postal address, which is different, therefore creating a duplicate. The street name may also have changed from the time of New Connection to that of customer contact (street names can change in the early stages of site development).
3. Removal/reclassification of properties as a result of data quality initiatives/projects
    a. Duplicate properties
    b. Reclassification of properties that were recorded in error
4. Change in occupancy status – movement from void/vacant to occupied and vice-versa.

For NI Water, accurate property data is fundamental for many systems and processes, including customer service, metering, billing, consumption, leakage and Major Incident Planning & Response. The Rapid Customer Contact System contains the master property data for NI Water.

As Data Owner for Property Standing Data, The Head of C&OD Services is responsible for the property standing data held by NI Water; this is monitored and managed through the Corporate Property Register (CPR) Project. The C&OD Business Services MI & Data Team chair this group.

The role of the CPR project is to agree a single consistent source of property data and to ensure that there is appropriate governance, controls and reporting for changes made to core data on the system. As Property Data Owners, we need to ensure the processes around creation, maintenance and demolition of properties are governed and appropriate control points and associated reporting are in place. Control is key for us; as such we have identified the systems, processes and people using property information across the business, alongside confirming data accuracy and endeavouring to reduce the opportunities for erroneous data entry and creation (such as the inability to recreate demolished properties or duplicate properties).

The issues under consideration were identified as of corporate relevance, therefore, to ensure appropriate direction and governance the CPR was formalised. Key objectives include:

1. To agree a single consistent source of property data.
2. To ensure the source property data represents accurate, up-to-date information appropriate for use by the business.
    a. To understand and agree data primacy in respect of data updates from NI Water and external (Land & Property Services - LPS) sources
    b. To ensure the processes around creation (i.e. New Connections), maintenance and demolition of properties are governed and appropriate control points and associated reporting are in place. i.e. through data validation
    c. To co-ordinate property reconciliations between NI Water & external sources i.e. Data Sharing Agreements between NI Water & LPS, NI Water & Belfast City Council (BCC) etc and understand the reasons and validity of any differences

   d. To understand and ensure the adequacy of long term procedures for database maintenance, including the updating of data standards and associated CDE M&M Plans
3. To ensure the reporting requirements for the business are met relating to data held on Rapid, particularly, but not exclusively, in respect of tariffs, leakage, Annual Information Returns (AIR) & Principal Statement (PS) returns.
4. Challenge the data in the areas of
   a. Data categorisation & structure
   b. Data robustness – i.e. where is our data good and where is there opportunity for improvement? Identify projects that could aid improvement
   c. Data alignment – both internally and externally. Internally between systems such as Rapid, Ellipse, GIS, Diamond, Netbase, IMS etc. Externally through data reconciliations, such as LPS above.
5. To agree measures to improve the quality and integrity of the data, particularly the key CDEs as monitored by IMU
6. To agree the content and frequency of reports required by NI Water.
7. To agree the quality checking criteria for the above data and reporting and develop a Quality Plan including the determination of responsibilities and audit trails.
8. To produce & circulate an 'operate and maintain' programme for property data to the business.

The focus for the CPR project remains the same, including analysis and action on:

- Creation of an agreed single consistent source of property information, running alongside the CBC3 timelines
- Volume of properties coming onto the Rapid billing system on a monthly basis
  - new connections
  - customer contact
  - project work
- Volume of properties coming off the Rapid billing system (demolished)
  - sample check to ensure reason for demolition has been noted and on system audit trail recorded
- Volume of properties amended on the Rapid billing system
  - In particular, address fields -> building number, street name, town and postcode
  - sampling to identify if the data changes are data improvement or data regression
  - if data regression, further analysis into the process is undertaken
- Review of access privileges
  - Rapid audit
  - Through monthly audit samples
  - Internal CRs require sign off from CPR team as BAU
  - Working with Echo to review access privileges on an ongoing basis
- Interruptions to supply notices – returned mail
  - This returned mail has been previously brought to the attention of LPS and include properties that LPS have classified as live properties despite being returned as 'no such address' etc
  - The 2 way communication with LPS will help underpin our governance work and provide direction to the business on practices

Annex A details the Line Methodology followed by the figure calculated for Table 3 Line 1.

Internal sewer flooding

Objective/Aim

To maintain a verifiable DG5 register with the aim to provide an auditable method for identifying the specific properties which are affected by flooding or are at risk of flooding and the cause of flooding.

Internal Flooding Process

In line with the regulators instructions, an end-to-end review of the internal flooding process has been carried out. Wastewater Business Unit (WWBU) carries out extensive robust investigations to determine the cause of every individual internal flooding incident. Any internal flooding that does not fall into these Flooding Other Causes (FOC) categories is passed to Asset Performance for them to carry out full Hydraulic Capacity evaluations and record them under the appropriate sections of the register. The evidence gathered is brought to an expert panel (the DG5 Panel) who examine the evidence presented for each incident and govern the addition of properties to and removal of properties from the register. All properties where actual internal flooding has occurred are recorded in the appropriate sections of the DG5 register i.e. In the Excluded section: FOC due to Blockages, Collapses, Equipment Failure or Severe Weather, or on the register in the 1:20, 1:10 or 2:10 Sections.

The register is held on an Oracle database represented on the Corporate Asset Register as GIS layer on CARtomap. Although the Internal Flooding process is now in place, the process itself continues to be refined.

NIW has direct access to the MUL Dashboard where all flooding jobs that have been sent to the contractor and their current status is visible. If the job has been completed NIW can view the data being provided and if there are any discrepancies they can be addressed immediately. The Business Unit proactively ensures that the FIR is fully completed by continual liaison between the MUL Contracts Manager and the Customer and Regulation manager (NIW) where queries/ problems are discussed and then resolved/ rectified by MUL. NIW has set up formal quarterly meetings with the MUL Contracts Manager where any issues/problems are discussed. WwBU also complete a monthly quality report to OCMC (Operations Contract Management Centre) which is used to assess if the contractor is penalised for not providing accurate data.

Problems as yet Undiscovered

A process has been established to allow problems as yet unreported to be included in the register through field managers flooding incident reports (FIR). In addition flooding incident field investigations now include concentric circle surveys to pick up unreported flooding and modeling provided by Drainage Area Plan consultant.

Assumptions

For the purpose of AIR24, NIW has assumed that a single incident includes recorded complaints from the same property on the same day or within three days. ‘3 days’ was chosen on the basis that a noticeable volume of repeat calls tend to be received within three days of an incident occurring. There is then a much longer passing of time before calls are again received from the same locality, suggesting that the original incident has passed and that the calls relate to a different incident.

An incident of internal flooding is assumed to be where a property has been flooded internally. If two adjacent properties are flooded at the same time they are classed as two properties and two incidents.

Where a single property floods internally on two separate occasions then this is recorded as one property and two incidents.

Calculation Process - Lines 2 to 11,15a

Data gathering and calculation is as described below.

Sources/Primary Process

Lines 2 – 11, 15a Properties and flooding incidents

A download of internal flooding records was obtained from the Ellipse system for the period April 2023 to March 2024 on a month-by-month basis. Investigations were carried out for each reported incident and those properties found not to be flooded after investigation, using information from the Sewer Maintenance Contractor, Flood Incident Report (FIR) Forms, Field Manager reports, Customer Field Manager reports, modelling provided by Drainage Area Plan consultant and contacting the Customers directly, were removed. The remaining properties were recorded as Flooding Incidents.

Sources/Secondary Process

1. Wastewater Business Unit (WWBU) carries out further investigations to determine the cause of every internal flooding incident.
2. WWBU assess the information held on customer report, Flood Incident Report (FIR), along with photographic evidence, closure details provided by the contractor and modelling provided by Drainage Area Plan consultant.
3. WWBU determines if the cause of the flooding incident was hydraulic incapacity or flooding other cause, i.e. Blocked Sewer, Equipment Failure, Collapsed Sewer or Severe Weather. This is done by a number of methods including site visits, concentric circle surveys, Customer Field Manager reports, customer interviews, field manager interviews and review of existing incident information. WWBU have also set up a formal InterDirectorate route to get copies of recorded Customer calls made available for record purposes.
4. If hydraulic incapacity is confirmed NIW now run a Hyrad Weather radar system report which is used to determine if the incident is as a result of severe weather (Line 4).
5. These properties were then recorded on a spreadsheet under the appropriate categories for lines 2, 3, 4, 4a, 5, 6, 8, 9, 10 and 11 using the information gathered from, the Sewer Maintenance Contractor, Flooding Report Forms, Field Manager reports, Drainage Area Plan consultant and contacting the Customers directly. All incidents of internal flooding attributed to overloaded sewers (Line2) and those attributed to severe weather (Line 4) are included in the total in Table 3 Line 3. All incidents of internal flooding attributed to severe weather are included in the total in Table 3 Line 4. A folder of evidence was created for all confirmed cases and this was brought to the monthly DG5 Panel for approval and addition to the appropriate section of the register. At the end of the reporting year this was the data used for AIR 23 returns.
6. The figure for line 7 was obtained by getting a report ran in the DG5 Oracle Database which holds the information as a DG5 layer in the GIS system.
7. Line 15a relates to properties that have not been fully investigated and categorized

Confidence Grading for Table 3 lines 2 - 11, 15a

Every reported incident of internal flooding is thoroughly investigated and cross-checked with the returned Flooding Incident Report Forms, Operations Staff, Customer Field Managers and the Customer where appropriate. Due to the extensive checking by the Business unit the data is then recorded in the appropriate lines therefore the confidence grade on the figures reported for lines 2, 3, 4,4a, 5, 6, 7, 8, 9, 10, 11, 15A is deemed to be B2.

Lines 12 - 34 DG5 Properties on the At Risk Register and Annual Changes

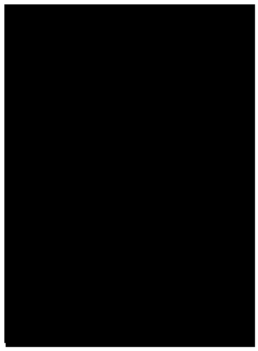
PC21 Outputs Year 1

The PC21 Business Plan included a target for removal of properties from the DG5 Internal Flooding Register by company action, which was 57:

The number of removals achieved in 23/24 was 16 by Company Action

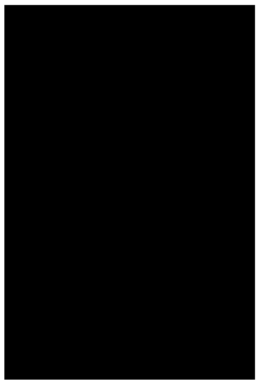
KR588 , Flood Alleviation

- , Belfast BT6 8JT (1 in 20)



KR746 Upgrade.

, Belfast BT6 9DS (1 in 20)
Belfast BT6 9BU (1 in 20)



, Holywood Flood alleviation scheme

, Holywood BT18 9EW (1 lin 20)

[redacted]

In the year 23/24 there were 9 Removals achieved due to Better Information

2 in 10

[redacted], Belfast BT6 0FP Removed due to better info
[redacted], Belfast BT6 0EP Removed due to better info
[redacted], Belfast BT6 0FR Removed due to better info
[redacted], Belfast BT6 0FR Removed due to better info
[redacted], Belfast BT6 0EE Removed due to Better Info

1 in 20

[redacted] BT5 6DL. Removed due to better info.
[redacted] Holywood BT18 9EW. Removed due to Company Action
[redacted], Belfast BT4 2GJ. Removed due to better info
[redacted], Belfast BT6 0GL Removed due to better info

Additions

In year 23/24, there were three properties added to the flooding register

[redacted], Ballymena Added due to Better Info. 2 in 10
[redacted], Millisle Added due to Better Info 2 in 10
[redacted], Bangor Added due to Better info. 2 in 10

[redacted]

[redacted]

[redacted]

Properties on the 2 in 10 and 1 in 10 register which have not flooded in the last 10 years

There are 27 properties on the Register which have not flood in the last 10 years see uploaded file below.

[redacted]

Line 17 Restricted Toilet use

There are four properties on the DG5 Register at present.

- [redacted], Londonderry BT48 7PF (2 in 10)
- [redacted], Londonderry BT48 7PF (1 in 10)
- [redacted], Ballynahinch BT24 8TF (2 in 10)
- [redacted], Ballynahinch BT24 8TF (2 in 10)

The tables below show how the DG5 properties, additions and removals are tracked, throughout the financial year.

[redacted]

Total on Register end of 23/24 = 84 (includes 4 restricted toilet use)

Lines 26 and 34 – Average capex cost of permanent solutions

Calculation summary for Lines 26 and 34 regarding average price for properties removed by company action from the DG5 Register. This calculation is the ESL expenditure calculation for each of the capital schemes divided by the number of DG5s removed from each of the categories.

[redacted]

Mitigation Measures

NI Water normally do not carry out mitigation measures as this programme of work is carried out by Rivers Agency as instructed by Local Government. In certain case's NI Water would fit non-return valves.

Approval of Projects

Approval of all projects for expenditure is approved by the Internal DG5 Panel.

There were no cases of 'Unknown cause' of flooding of internal flooding being added to the DG5 Register in 23/24

Confidence grades

Confidence grades for lines 12–16, 22–26 and 30–34 remain at B2.

Annex A – Line Methodology for Table 3

Line 1 – Number of Domestic Properties Connected to the Sewerage System

The total number of domestic properties (including voids) connected to the sewerage system at the end of the reporting year (31st March 2024).

This figure is based on the 31st March 2024 Rapid Property Summary for AIR24, as attached.


RPS March 24.xlsx

The figure is the total domestic properties (gross) connected for sewerage (including site meters as these are not being billed)

Domestic Properties Connected to the Sewerage System	End March 2024
Total Gross Household Sewerage Properties	**702,864**

NORTHERN IRELAND WATER LIMITED - ANNUAL INFORMATION RETURN

ANNUAL INFORMATION RETURN - TABLE 3A KEY OUTPUTS
SEWERAGE SERVICE - EXTERNAL FLOODING (TOTAL)

	DESCRIPTION	UNITS	DP	1 REPORTING YEAR 2015-16	CG	2 REPORTING YEAR 2016-17	CG	3 REPORTING YEAR 2017-18	CG	4 REPORTING YEAR 2018-19	CG	5 REPORTING YEAR 2019-20	CG	6 REPORTING YEAR 2020-21	CG	7 REPORTING YEAR 2021-22	CG	8 REPORTING YEAR 2022-23	CG	9 REPORTING YEAR 2023-24	CG	10 REPORTING YEAR 2024-25	CG	11 REPORTING YEAR 2025-26	CG	12 REPORTING YEAR 2026-27	CG
A	**ANNUAL FLOODING SUMMARY**																										
	(I) OVERLOADED SEWERS																										
1	Areas flooded externally in the year (overloaded sewers)	nr	0	23	D6	20	D6	15	D6	57	D6	17	D6	12	D6	11	D6	4	D6	11	D6						
2	Curtilege flooding incidents in the year (overloaded sewers)	nr	0	17	D6	16	D6	11	D6	46	D6	17	D6	10	D6	9	D6	3	D6	11	D6						
3	Highway flooding incidents (overloaded sewers)	nr	0	6	D6	4	D6	4	D6	9	D6	0	D6	2	D6	2	D6	1	D6	0	D6						
4	Other flooding incidents (overloaded sewers)	nr	0	0	D6	0	D6	0	D6	2	D6	0	D6	0	D6	0	D6	0	D6	0	D6						
5	Total flooding incidents (overloaded sewers)	nr	0	23	D6	20	D6	15	D6	57	D6	17	D6	12	D6	11	D6	4	D6	11	D6						
6	External flooding incidents (overloaded sewers attributed to severe weather)	nr	0	6	D6	3	D6	3	D6	41	D6	5	D6	12	D6	23	D6	27	D6	20	D6						
6a	Areas flooded externally attributed to severe weather	nr	0	6	D6	3	D6		D6	41	D6	5	D6	12	D6	23	D6	27	D6	20	D6						
	(ii) OTHER CAUSES																										
7	Areas flooded externally in the year (other causes)	nr	0	3,889	D6	3,819	D6	3,466	D6	4,273	D6	4,515	D6	3,479	D6	2,793	D6	2,710	D6	2,488	D6						
8	Areas which have flooded more than once in the last 10 years (other causes)	nr	0	N/C		N/A		N/C		0	D6	0	D6	N/C		N/C	D6	N/C	D6	N/C	D6						
9	Flooding incidents (other causes - equipment failure)	nr	0	19	D6	8	D6	3	D6	4	D6	15	D6	11	D6	6	D6	9	D6	11	D6						
10	Flooding incidents (other causes - blockages)	nr	0	3,773	D6	3,543	D6	3,155	D6	3,962	D6	4,044	D6	3,457	D6	1,812	D6	1,757	D6	1,660	D6						
11	Flooding incidents (other causes - collapses)	nr	0	97	D6	268	D6	308	D6	307	D6	456	D6	11	D6	975	D6	944	D6	817	D6						
B	**AREAS ON THE 1:10, 2:10, 1:20 AT RISK REGISTER**																										
	(I) SUMMARY																										
12	2 in 10 register at end of year	nr	0	226	D6	232	D6	237	D6	251	D6	252	D6	239	D6	250	D6	253	D6	256	D6						
13	1 in 10 register at end of year	nr	0	20	D6	20	D6	20	D6	20	D6	28	D6	17	D6	9	D6	11	D6	11	D6						
14	1 in 20 register at end of year	nr	0	86	D6	87	D6	87	D6	87	D6	88	D6	83	D6	83	D6	83	D6	91	D6						
15	Total on the 1:10, 2:10, 1:20 register at end of year	nr	0	332	D6	339	D6	344	D6	358	D6	368	D6	339	D6	342	D6	347	D6	358	D6						
15a	Potential risk of property flooding identified requiring further investigation to assess at risk category	nr	0	N/C		N/A		N/C		N/A		0	D6	N/C		0	D6	0	D6	0	D6						
	(iii) ANNUAL CHANGES TO 1:10, 2:10, 1:20 REGISTER																										
20	Removed by company action (external only)	nr	0	0	A1	1	A1	0	B2	0	B2	0	D6	0	A1	5	D6	0	D6	0	D6						
21	Removed by company action (external linked)	nr	0	0	A1	0	A1	2	B2	0	B2	0	D6	0	A1	0	D6	0	D6	0	D6						
22	Removed because of better information	nr	0	0	A1	0	A1	2	B2	0	B2	0	D6	0	A1	0	D6	0	D6	0	D6						
23	Added because of better information (actually flooded)	nr	0	16	A1	7	A1	9	B2	14	B2	10	D6	6	A1	5	D6	5	D6	10	D6						
24	Added because of better information (modelled)	nr	0	0	A1	1	A1	0	B2	0	B2	0	D6	0	A1	0	D6	0	D6	0	D6						
25	Transferred from external to internal register	nr	0	0	A1	0	A1	0	B2	0	B2	0	D6	0	A1	0	D6	0	D6	0	D6						

Table 3a - Key Outputs – Sewerage Service – External Flooding

Introduction

The processing of external flooding incidents has continued as it did in year 2022-23. The in-house resource devoted to this processing and analysis continues to be extremely limited. As a consequence, the process continues to be heavily dependent upon the accuracy of the information provided by the external maintenance contractor. Throughout the year, analysis of external flooding incidents is based upon monthly spreadsheets and Flooding Incident Report sheets, submitted by the external maintenance contractor. Each incident which is classified by the contractor as potentially 'hydraulic' – i.e. which does not have an 'other cause' identified - is subject to an investigation by the Asset Performance section. The investigation will either recommend that the incident is confirmed as hydraulic, or recommend that the incident is excluded.

Each incident is classified by the contractor as affecting one of curtilage, highways or 'other'. An analysis is carried out to define the total number of areas affected. Those incidents classified by the contractor as 'other causes' are defined, (by the contractor), as due to one of 'equipment failure', blockage or collapse.

Lines 1-11 - Annual Flooding Summary

The analysis of external flooding incidents is summarised in the spreadsheet 'Reported External Flooding for 2023-24; the figures within Table 3a have been transferred from that spreadsheet.

The total number of 'overloaded sewers' incidents for the year 2023-24 was 11.

The total number of 'other causes' incidents has decreased from 2710 in 2022/23 to 2488 in 2023/2024.

As there is reliance upon the information supplied by the external contractor, a low confidence grade, of D6, continues to be attached.

Line 8 – Areas which have flooded more than once in the last 10 years (other causes)

This line cannot be populated as the processing of external incidents has only been properly executed for nine years.

Lines 12-25 - At Risk Register

The total number of areas, on the Register at the start of year 2023/24 was 347 However, a deep cleanse of the Register, in 2023, increased this to 348. (by re-assessment of duplicated incidents and cross referencing addresses)

The processing of external flooding incidents has continued as it did in year 2022/23, resulting in 10 areas being added to the Register, in assigned categories (2 in 10, 1 in 10, 1 in 20)

This brings the total number of areas on the Register to 358.

As the primary input to the register is the processing of annual flooding incidents, the same confidence grade (D6) is assigned.

NORTHERN IRELAND WATER - ANNUAL INFORMATION RETURN

ANNUAL INFORMATION RETURN - TABLE 4 KEY OUTPUTS
CUSTOMER SERVICE - 1 (TOTAL)

	DESCRIPTION	UNITS	DP	1 REPORTING YEAR 2015-16	CG	2 REPORTING YEAR 2016-17	CG	3 REPORTING YEAR 2017-18	CG	4 REPORTING YEAR 2018-19	CG	5 REPORTING YEAR 2019-20	CG	6 REPORTING YEAR 2020-21	CG	7 REPORTING YEAR 2021-22	CG	8 REPORTING YEAR 2022-23	CG	9 REPORTING YEAR 2023-24	CG	10 REPORTING YEAR 2024-25	CG	11 REPORTING YEAR 2025-26	CG	12 REPORTING YEAR 2026-27	CG
A	DG6 RESPONSE TO BILLING CONTACTS - GENERAL																										
1	Total billing contacts	nr	0	75,490	B2	77,698	B2	71,409	B2	77,016	B2	53,942	B2	42,975	B2	45,138	B2	45,697	B2	45,884	B2						
2	Number dealt with within 5 working days	nr	0	75,462	B2	77,679	B2	71,386	B2	77,010	B2	53,928	B2	42,968	B2	45,126	B2	45,686	B2	45,855	B2						
3	Number dealt with in more than 10 working days	nr	0	11	B2	4	B2	5	B2	3	B2	4	B2	4	B2	4	B2	2	B2	6	B2						
4	DG6 Percentage dealt with within 5 working days	%	2	99.96	B2	99.98	B2	99.97	B2	99.99	B2	99.97	B2	99.98	B2	99.97	B2	99.98	B2	99.94	B2						
5	Percentage dealt with in more than 10 working days	%	2	0.01	B2	0.01	B2	0.01	B2	0.00	B2	0.01	B2	0.01	B2	0.01	B2	0.00	B2	0.01	B2						
B	CONNECTED PROPERTIES																										
6	Number of properties connected for water supply only	nr	0	160,991	A2	163,246	A2		A2	165,152	A2	165,133	A2	165,435	A2	166,389	A2	167,343	A2	170,922	A2						
7	Number of properties connected for water and sewerage services	nr	0	678,719	A2	689,153	A2	698,293	A2	709,155	A2	718,290	A2	727,475	A2	736,303	A2	742,755	A2	748,268	A2						
8	Number of properties connected for sewerage services only	nr	0	24	A2	25	A2	25	A2	25	A2	29	A2	29	A2	29	A2	28	A2	29	A2						

Table 4 – Customer Service 1

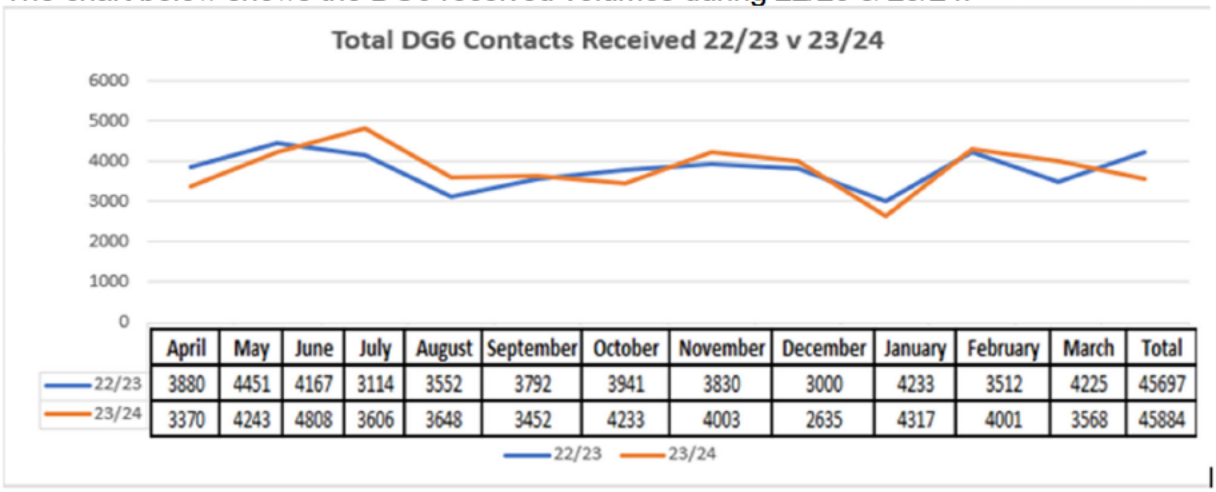
Lines 1-5 - DG6 – Response to Billing Contacts

This was the seventeenth year of non-domestic billing by Northern Ireland Water (NIW). Following the decision of Northern Ireland Executive, domestic charges continued to be deferred for 2023/24 charging year.

As in previous years, with the exception of 2020/21, the planned, Utility Regulator approved tariff increase took effect from 1 April 2023. Although due to delays with the Land & Property Services (LPS) revaluation exercise, the issuing of annual unmeasured bills was deferred until May 2023.

In 2023/24 there was no change to our Debt Management and Customer Engagement Strategy.

The chart below shows the DG6 received volumes during 22/23 & 23/24.



	April	May	June	July	August	September	October	November	December	January	February	March	Total
22/23	3880	4451	4167	3114	3552	3792	3941	3830	3000	4233	3512	4225	45697
23/24	3370	4243	4808	3606	3648	3452	4233	4003	2635	4317	4001	3568	45884

Chart 1 – DG6 Billing Contacts Received 22/23 v 23/24

The increased volume of contacts in Q1, in comparison to Q2-4, can be attributed to the annual bill run whereby unmeasured bills were issued at the beginning of May and measured customers received their Summary of Charges leaflet, notifying them of the tariffs for the forthcoming financial year. The increase in contacts in June 2023, compared to June 2022 reflects the month delay in unmeasured bills being issued.

Top Reasons for Customer Contact

Top 5 DG6 CMS	Volume	%	Rank
Debit / Credit Card Payment	9634	21	1
BI Request Copy Bill	3630	8	2
P Promise Of Payment	2556	6	3
BI Customer Move Out	2063	4	4
R Refund Request	1933	4	5

Table 1 – Top 5 DG6 contact types 2023/24

Analysis of DG6 Received CMS Types in 22/23 against 23/24 highlights that Debit/Credit Card Payment was once again the top ranked CMS type for DG6 contacts. There was a negligible change in the volume received, less than 2% increase in 23/24 compared to 22/23.

The Copy Bill Request CMS type showed a 10% increase in volume in 23/24. Analysis of this CMS type shows a number of reasons for this increase including customer behaviour (multiple requests for the same bill within SLA, requests from multiple agents within an organisation and requests made via email & telephone on the same day) and issues with customers accessing TIF images upon receipt of emailed bills.

Customer Move Out saw an 8% increase in 2023/24, which could be attributed to the cost-of-living crisis and the increased number of closures of commercial premises.

Promise of Payment and Refund Requests fell by 28% & 17% respectively. The drop in Refund Request CMS codes can be attributed to the introduction of our new Managed Process CMS code, which is used to categorise those requests were customers have been prompted to contact us in order to process their refund.

A customer-centric and strategic account management approach to billing query resolution, collections activity and debt management has been maintained throughout the year.

Measures to continue to reduce the volume of customer billing contacts relating to payments include:

- on-going proactive promotion (via social media, text alerts, call scripts, customer correspondence, etc.) of the online Quick Pay facility as well as the NI Water Self Service portal

Reporting Method

The source data for DG6 Table 4 (Lines 1 to 5) is reported using the submitted methodology stated for DG6.

On the first working day of each month, the DG6 reports are run for both the current and previous months to accurately update received and closed figures on a retrospective basis to support the annual reconciliation. Variances are queried with NI Water Billing & Revenue, Contacts Team and Echo and resolved as they arise.

Responses

For DG6 reporting purposes, the date of resolution of the item or date of the substantive response/holding response is used as the closure date. If a customer has a billing-related query, which leads to a recalculated bill, the date of the response (verbal or written) explaining the reason for the bill is used as date and timestamp of the response. The recalculated bill is generated overnight and issued under separate cover.

Under normal circumstances, the follow up dates provided to customers for DG6 contacts is 20 working days (equating to one calendar month) from the date of the first holding response being issued. This period allows time for a site visit to be completed by a Meter Query Technician (MQT), the resolution confirmed and the final response issued to the customer. Some meter surveys may take longer, so this category of holding response is extended out to 30 days.

NB. The majority of DG6 contacts which cannot be resolved within 5 days require a site visit by an MQT. It is not unusual that the requirement for remedial meter maintenance work is identified during these site visits. The 20 day period should allow time for an initial site visit to be performed by a MQT, any routine meter maintenance work requested and completed, the resolution confirmed and the final response drafted and issued to the customer.

However, in certain circumstances, especially where a site visit is not required, a 20-day hold may not be required and a shorter period is given in the holding response.

Re-categorisation between Regulatory Categories

NIW has procedures in place for instances where written contacts are changed from one DG category to another e.g. DG6 to DG7. The process document, **"Re-categorisation of written contacts"**, is embedded as Document 1 for reference purposes.



NIW_Re-categorisation of written conta

Document 1 - Re-categorisation of written contacts

Open contacts can be re-categorised using Rapid screen wccm11 (Contact Amendments), and closed contacts can be re-categorised using Rapid screen wccm91 (Close Date Maintenance).

There are a number of stages at which the categorisation of a billing contact can be reviewed after it has been scanned, logged and indexed.
Whilst not exhaustive, the main activities during which the categorisation of contacts is regularly checked are:

- Agent Review - it is the responsibility of the Agent to ensure that each contact they are handling is closed in line with reporting guidelines. On initial review, they should ensure that the contact has been correctly categorised in line with the DG/Contact definitions. If incorrect, it is their responsibility to ensure that the contact is updated on Rapid accordingly. If unsure, they should seek guidance from their line manager.
- The CSD Services MI & Data Team perform monthly sampling on 50 randomly selected closed DG6 Telephone and Written contacts. Any discrepancies found when carrying out the Telephone sampling are reported and escalated to Echo as part of NI Water's response to the Monthly Business Review Pack.
- Written sampling results are sent to the Contacts & Complaints & Executive Mail (C & C&EM) Team Managers (TMs) for review. It is the responsibility of the C & C&EM TMs to ensure that any agreed exceptions which require re-categorisation are retrospectively updated on Rapid.
- C & C&EM Coaching – TMs perform coaching using sampling of closed contacts. It is the responsibility of the TMs to ensure that any contacts identified through this process which require re-categorisation are updated on Rapid.

Email

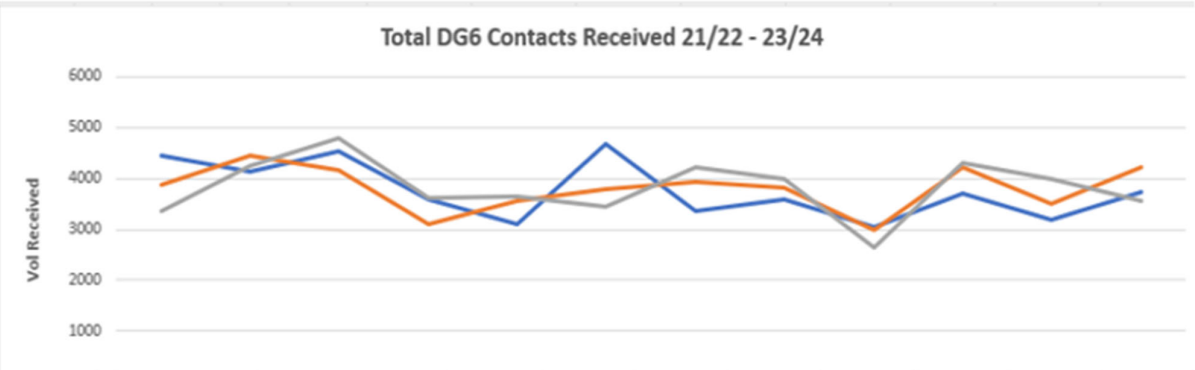
Systems remain in place to ensure that the receipt date of email contacts is recorded as the date it is delivered to the company with the following working day being recorded as Day 1.

Payment Cards

NI Water does not issue payment cards to non-domestic customers.

DG6 Volumes Year-on-year

DG6 received volumes from 2021/22 to 2023/24 displayed in Chart 2.



	April	May	June	July	August	September	October	November	December	January	February	March	Total
21/22	4440	4148	4534	3602	3111	4671	3364	3592	3039	3716	3191	3730	45138
22/23	3880	4451	4167	3114	3552	3792	3941	3830	3000	4233	3512	4225	45697
23/24	3370	4243	4808	3606	3648	3452	4233	4003	2635	4317	4001	3568	45884

Chart 2 - DG6 received 2021/22 to 2023/24

The total received volume for 2023/24 is 45,884. This is an increase of 187 contacts, or 0.41% on the 2022/23 figures.

End of Year (Contacts not dealt with at end of year)

Based on data extracted on 20/05/24

- 10 DG6 contacts received during 23/24 remained open;
- The oldest open DG6 contact received during 23/24 is 45 working days;
- Of the 10 DG6 contacts still open, all have been open for more than 5 working days, each pending completion of agreed actions outlined in substantive holding responses as verified by a sample check of contacts still open at year end;

Self Service Portal

NIW has further enhanced its web-based services for customers. The services are aimed predominantly at non-domestic customers who have an account with NIW and make it easier for them to pay bills online and check their accounts. The service also allows domestic customers with septic tanks to order their tank to be 'de-sludged'.
Once registered, non-domestic customers are able to:

- view their account balance;
- view bills and payment history;
- pay a bill;
- manage their account details;
- manage multiple NIW accounts (inc. consolidated) on their Portal profile;
- invite other registered / approved users to access / view accounts;
- view / download historical consumption data;
- view desludging request history;
- process a new desludging request.

Line 6 – Number of Properties Connected for Water Supply Only

AIR23 figure – 167343
AIR24 figure – 170922

There has been a net increase of circa 5487 properties during the 23/24 year, which were connected for water only.

Line 7 – Number of Properties Connected for Water and Sewerage Services

AIR23 figure – 742755
AIR24 figure – 748268

There has been a net increase of circa 11965 properties connected for water and sewerage services during the 23/24 year – commentary detailed below.

Line 8 - Number of Properties Connected for Sewerage Services Only

AIR23 figure – 28
AIR24 figure – 29

As with Table 2, Table 3, Table 7 & Table 13 we have identified that properties can be added to/removed from the billing system via the methods below:-

1. New Connections during the 2023/24 reporting year. The figures are based on a report received from the Customer Connections Team. The figures are based on data supplied by our Customer Connections Team and represent completed connections during the reporting year. The projections for New Connections remain in line with the agreed PC21 forecasts, however we have noted a downturn and will review mid-year (during the draft Principal Statement) to ascertain if projections should be changed.
2. As a result of a customer contact. i.e., septic tank empty request, no water complaint, blocked sewer, updating of standing data e.g., removal of services etc. Within this category there are 2 scenarios:
    (a) The adding of properties NI Water allegedly did not know about
    (b) The adding of duplicates as the customer's address could not be found on Rapid. Rapid may hold the site number but when the customer contacts NI Water, they quote the verified postal address, which is different, therefore creating a duplicate. The street name may also have changed from the time of New Connection to that of customer contact (street names can change in the early stages of site development).
3. Removal/reclassification of properties as a result of data quality initiatives/projects
    a. Duplicate properties
    b. Reclassification of properties that were recorded in error
4. Change in occupancy status – movement from void/vacant to occupied and vice-versa.

For NI Water, accurate property data is fundamental for many systems and processes, including customer service, metering, billing, consumption, leakage and Major Incident Planning & Response. The Rapid Customer Contact System contains the master property data for NI Water.

As Data Owner for Property Standing Data, The Head of C&OD Services is responsible for the property standing data held by NI Water; this is monitored and managed through the Corporate Property Register (CPR) Project. The C&OD Business Services MI & Data Team chair this group.

The role of the CPR project is to agree a single consistent source of property data and to ensure that there is appropriate governance, controls and reporting for changes made to core data on the system. As Property Data Owners, we need to ensure the processes around creation, maintenance and demolition of properties are governed and appropriate control points and associated reporting are in place. Control is key for us; as such we have identified the systems, processes and people using property information across the

business, alongside confirming data accuracy and endeavouring to reduce the opportunities for erroneous data entry and creation (such as the inability to recreate demolished properties or duplicate properties).

The issues under consideration were identified as of corporate relevance, therefore, to ensure appropriate direction and governance the CPR was formalised. Key objectives include:

1. To agree a single consistent source of property data.
2. To ensure the source property data represents accurate, up-to-date information appropriate for use by the business.
    a. To understand and agree data primacy in respect of data updates from NI Water and external (Land & Property Services - LPS) sources.
    b. To ensure the processes around creation (i.e. New Connections), maintenance and demolition of properties are governed and appropriate control points and associated reporting are in place. i.e. through data validation.
    c. To co-ordinate property reconciliations between NI Water & external sources i.e. Data Sharing Agreements between NI Water & LPS, NI Water & Belfast City Council (BCC) etc and understand the reasons and validity of any differences.
    d. To understand and ensure the adequacy of long term procedures for database maintenance, including the updating of data standards and associated CDE M&M Plans.
3. To ensure the reporting requirements for the business are met relating to data held on Rapid, particularly, but not exclusively, in respect of tariffs, leakage, Annual Information Returns (AIR) & Principal Statement (PS) returns.
4. Challenge the data in the areas of
    a. Data categorisation & structure
    b. Data robustness – i.e. where is our data good and where is there opportunity for improvement? Identify projects that could aid improvement
    c. Data alignment – both internally and externally. Internally between systems such as Rapid, Ellipse, GIS, Diamond, Netbase, IMS etc. Externally through data reconciliations, such as LPS above.
5. To agree measures to improve the quality and integrity of the data, particularly the key CDEs as monitored by IMU.
6. To agree the content and frequency of reports required by NI Water.
7. To agree the quality checking criteria for the above data and reporting and develop a Quality Plan including the determination of responsibilities and audit trails.
8. To produce & circulate an ‘operate and maintain’ programme for property data to the business.

The focus for the CPR project remains the same, including analysis and action on:

- Creation of an agreed single consistent source of property information, running alongside the CBC3 timelines
- Volume of properties coming onto the Rapid billing system on a monthly basis
    - new connections
    - customer contact
    - project work
- Volume of properties coming off the Rapid billing system (demolished)
    - sample check to ensure reason for demolition has been noted and on system audit trail recorded
- Volume of properties amended on the Rapid billing system

    - In particular, address fields -> building number, street name, town and postcode
    - sampling to identify if the data changes are data improvement or data regression
    - if data regression, further analysis into the process is undertaken
- Review of access privileges
    - Rapid audit
    - Through monthly audit samples
    - Internal CRs require sign off from CPR team as BAU
    - Working with Echo to review access privileges on an ongoing basis
- Interruptions to supply notices – returned mail
    - This returned mail has been previously brought to the attention of LPS and include properties that LPS have classified as live properties despite being returned as ‘no such address’ etc
    - The 2 way communication with LPS will help underpin our governance work and provide direction to the business on practices

Annex A details the Line Methodology for the figures calculated in Table 4 Lines 6-8.

Annex A – Line Methodology for Table 4 Lines 6-8

Line 6: Number of Properties Connected for Water Supply Only

The total number of household and non-household properties connected to the water distribution system for water supply only, at the end of the AIR23 reporting year. This includes properties, which are connected but not billed (e.g. temporarily unoccupied), but excludes properties which have been permanently disconnected.

This figure is taken from the Rapid Property Summary for AIR24 and is displayed in the diagram below:

Therefore:-

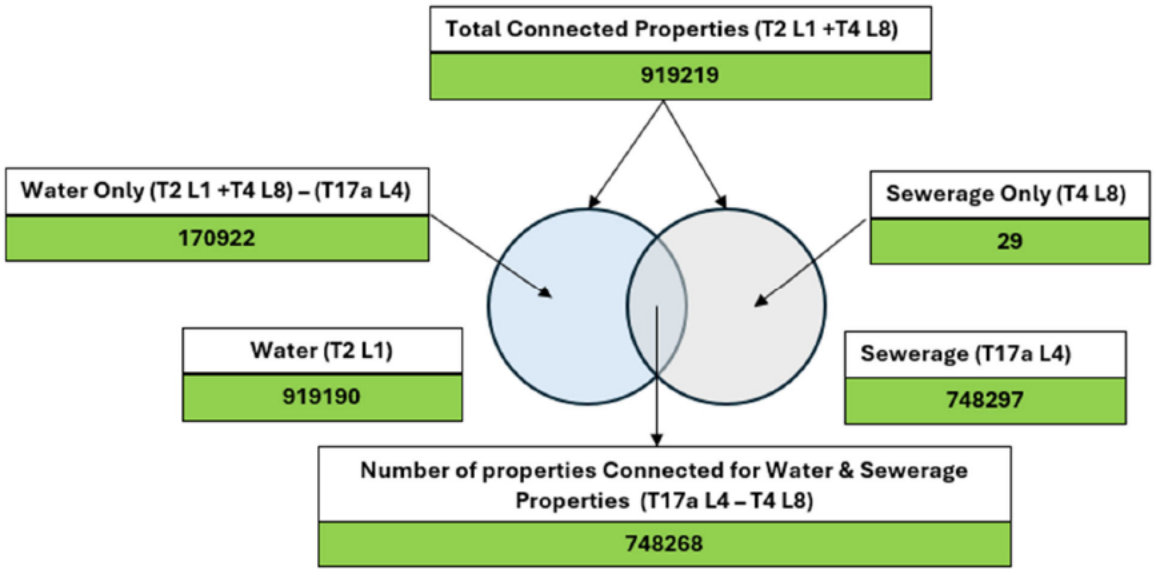
	End March 2024
Total Connected Properties (T2 L1 + T4 L8)	919219
less	
Total Connected Properties for Sewerage (T17a L4)	748297
Total Connected for Water Only	**170922**

Line 7: Number of Properties Connected for Water and Sewerage Services

The total number of household and non-household properties connected for both water and sewerage services at the end of the reporting year.

This includes properties which are connected but not billed (e.g. temporarily unoccupied) but excludes properties which have been permanently disconnected.

This figure is taken from the Rapid Property Summary for AIR24 and is displayed in the diagram below:



	End March 2024
Number of Properties Connected for Water & Sewerage Services (T17a L4 - T4 L8)	**748268**

Line 8: Number of Properties Connected for Sewerage Services Only

The total number of household and non-household properties connected for sewerage services only at the end of the reporting year.

This includes properties, which are connected but not billed (e.g. temporarily unoccupied), but excludes properties which have been permanently disconnected.

This figure is taken from the Rapid Property Summary for AIR23.

	End March 2023
Domestic sewerage only	10
plus	
Non-domestic sewerage only	19
Total Properties Connected for Sewerage Only	**29**

NORTHERN IRELAND WATER LIMITED - ANNUAL INFORMATION RETURN

ANNUAL INFORMATION RETURN - TABLE 5 KEY OUTPUTS
CUSTOMER SERVICE - 2 (TOTAL)

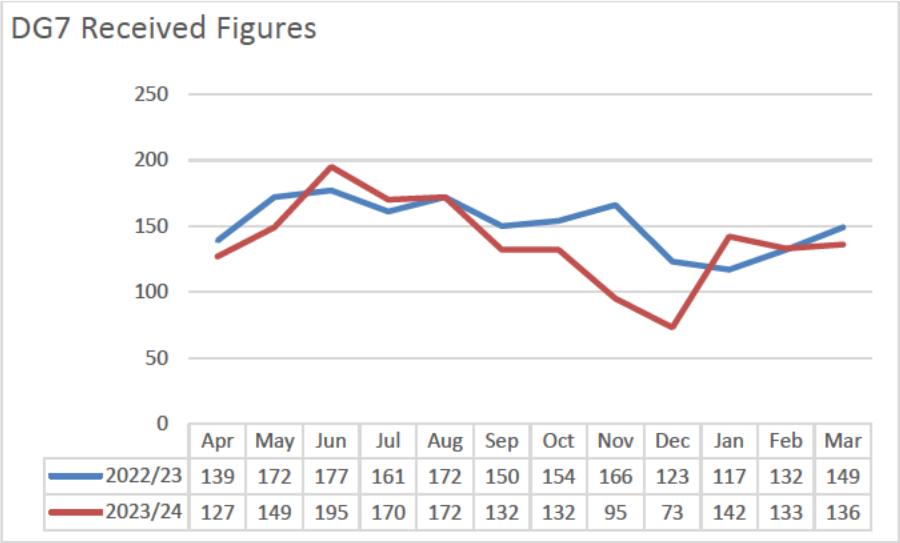
	DESCRIPTION	UNITS	DP	1 REPORTING YEAR 2015-16	CG	2 REPORTING YEAR 2016-17	CG	3 REPORTING YEAR 2017-18	CG	4 REPORTING YEAR 2018-19	CG	5 REPORTING YEAR 2019-20	CG	6 REPORTING YEAR 2020-21	CG	7 REPORTING YEAR 2021-22	CG	8 REPORTING YEAR 2022-23	CG	9 REPORTING YEAR 2023-24	CG	10 REPORTING YEAR 2024-25	CG	11 REPORTING YEAR 2025-26	CG	12 REPORTING YEAR 2026-27	CG
A	**DG7 RESPONSE TO WRITTEN COMPLAINTS**																										
1	Total written complaints	nr	0	2,269	B2	2,375	B2	2,274	B2	2,133	B2	1,958	B2	1,885	B2	1,954	B2	1,812	B2	1,656	B2						
2	Number dealt with within 10 working days	nr	0	2,266	B2	2,375	B2	2,271	B2	2,133	B2	1,957	B2	1,883	B2	1,954	B2	1,812	B2	1,656	B2						
3	Percentage dealt with within 10 working days	%	2	99.87	A1	100.00	A1	99.87	B2	100.00	B2	99.95	B2	99.89	B2	100.00	B2	100.00	B2	100.00	B2						
4	Number dealt with in more than 20 working days	nr	0	2	B2	0	B2	3	B2	0	B2	0	B2	1	B2	0	B2	0	B2	0	B2						
5	Percentage dealt with in more than 20 working days	%	2	0.09	A1	0.00	A1	0.13	B2	0.00	B2	0.00	B2	0.05	B2	0.00	B2	0.00	B2	0.00	B2						
B	**DG8 BILLS FOR METERED CUSTOMERS**																										
6	Total metered accounts	nr	0	123,763	A1	127,807	A1	128,705	A1	129,387	A1	130,375	A1	130,887	A1	131,590	A1	132,279	A1	132,927	A1						
7	Metered accounts excluded from indicator	nr	0	55,875	A1	59,428	A1	60,060	A1	60,542	A1	61,091	A1	61,137	A1	61,100	A1	61,539	A1	62,314	A1						
	(I) NO. OF CUSTOMERS WITH METERED ACCOUNTS RECEIVING AT LEAST ONE BILL DURING YEAR BASED ON METER READING:																										
8	Company readings	nr	0	67,319	A1	68,025	A1	68,400	A1	68,603	A1	68,938	A1	69,147	A1	70,246	A1	70,569	A1	70,458	A1						
9	Company or customer readings (or both)	nr	0	67,366	A1	68,051	A1	68,420	A1	68,621	A1	68,958	A1	69,206	A1	70,253	A1	70,574	A1	70,461	A1						
	(ii) NUMBER OF CUSTOMERS WITH METERED ACCOUNTS RECEIVING:																										
10	Estimated bills only	nr	0	426	A1	270	A1	184	A1	203	A1	295	A1	371	A1	196	A1	126	A1	91	A1						
11	No bills received during the report year	nr	0	96	A1	58	A1	41	A1	72	A1	31	A1	173	A1	41	A1	40	A1	61	A1						
12	Unread by company for 2 years	nr	0	207	A1	173	A1	90	A1	21	A1	58	A1	65	A1	88	A1	53	A1	48	A1						
C	**DG9 TELEPHONE CONTACT**																										
13	Total calls received on customer contact lines	nr	0	210,487	A2	217,023	A2	212,095	A2	215,011	A2	197,184	A2	188,658	A2	190,719	A2	175,475	A2	169,023	A2						
14	All lines busy	nr	0	159	A2	63	A2	18	A2	29	A2	44	A2	76	A2	30	A2	0	A2	0	A2						
15	Total of calls not abandoned	nr	0	209,284	A2	216,015	A2	211,061	A2	213,835	A2	196,289	A2	184,198	A2	184,024	A2	166,814	A2	159,478	A2						
16	Call Handling Satisfaction - not used	nr	2	4.59	A1																						
17	Total telephone complaints	nr	0	61,316	A2	62,866	A2	57,940	A2	59,686	A2	53,210	A2	56,852	A2	44,799	A2	34,198	A2	32,293	A2						
D	**SPECIAL ASSISTANCE REGISTER**																										
18	Customers on the special assistance register	nr	0	3,163	A2	2,017	A1	2,096	A1	2,201	A2	2,246	A2	2,476	A2	2,694	A2	2,822	A2	2,798	A2						
E	**CUSTOMER SATISFACTION MEASURES**																										
19	Total contacts	nr	0			257,866	A2	250,753	A2	252,844	A2	190,729	A2	182,029	A2	201,170	A2	192,044	A2	199,029	A2						
20	Unwanted contacts	nr	0			110,197	A2	105,964	A2	75,569	A2	67,013	A2	70,204	A2	66,064	A2	57,327	A2	50,400	A2						
21	Unwanted contacts as a % of total contacts	%	2																								
22	First Point of Contact Resolved (FPOCR)	%	1			66.5	A2	65.8	A2	90.0	A2	90.4	A2	90.4	A2	84.0	A2	84.0	A2	86.0	A2						
23	Customer advocacy measure	nr	0			27	A1	31	A1	32	A1	42	A1	42	A1	32	A1	36	A1	46	A1						
24	Omnibus survey question 1	nr	1			80.3	A1	92.4	A1	81.6	A1	71.7	A1	80.7	A1	79.2	A1	73.7	A1	73.7	A1						
25	Omnibus survey question 2	nr	1			11.2	A1	8.2	A1	8.3	A1	7.6	A1	7.4	A1	7.5	A1	7.5	A1	7.4	A1						

Table 5 – Customer Service 2

Lines 1-5 - DG7 Response to Written Complaints

DG7 Received Volumes

The chart below shows the DG7 received volumes during 22/23 and 23/24.



The chart shows a decrease in the overall volume of written complaints received in 23/24 compared to the previous year; 1,656 in total received in 23/24 compared with a total of 1,812 received in the previous reporting period. This represents an 8.61% reduction.

When comparing with average monthly received figures based on the data for the past 3 years, received volumes in 23/24 were above average in only 2 of the 12 months; June and August.

	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
21/22	147	155	185	208	167	157	141	125	158	180	165	166
22/23	139	172	177	161	172	150	154	166	123	117	132	149
23/24	127	149	195	170	172	132	132	95	73	142	133	136
Average	138	159	186	180	170	146	142	129	118	146	143	150

Neither of the 'above-average monthly volumes' were statistically significant; in June there was only an increase of 9 and in August an increase of 2, compared to the 3-year average. While there was only a minimal increase, the most notable increase in volumes was experienced in June 2023. Analysis of written complaints received found an increase in Charges & Billing related complaints which would be attributed to the annual unmeasured bill run and also a slight increase in sewer related complaints, due to the extreme dry weather in May, followed by wetter weather in June which resulted in an increase in blockages and flooding.

As in previous years, the number of written complaints in the Charges & Billing category was highest, representing 43% of the total received across the reporting period. This represents an 4% increase compared with 22/23, when the figure was 39%.

As is typical, the complaints in the Charges & Billing category this reporting period stem from a variety of reasons, some of which are summarised below:

- 193 complaints were recorded as being from customers disputing liability for charges.
- 138 complaints were recorded as being about leakage allowances or high consumption.
- 108 complains were recorded as being from customers requesting an explanation of calculation.

End of Year (Contacts not dealt with at end of year)

Based on data extracted on 30th May 2024, no DG7 contacts received during 23/24 remained open.

Petitions

No DG7 contacts were received which could be described as petitions.

CCNI Written Complaints Assessment

The 9th formal CCNI Written Complaints Assessment process commenced in March 2024. This independent review seeks to identify recommendations for improved complaint handling. Results and any recommendations from this assessment will be agreed in Q2 of 24/25.

E-mail and Faxes

Systems remained in place to ensure that the receipt date of email/fax contacts is recorded as the date they are delivered to the company, with the following working day being recorded as Day 1.

1,522, or 91.91%, of the total DG7 received volume were recorded with a document type of “email”.

No DG7 contacts were recorded as having a document type of “fax”.

Self-Service Portal

The “Contact Us” section of the online Self Service Portal allows customers to submit complaints on completion of an online form.

The resulting complaints are received as emails and reported as such. The link as is below: https://digitalservices.niwater.com/contact-form#Complaint

Complaints about HVCH

There were no written complaints recorded as being related to the High Volume Call Handling system.

NI Direct

There were no written complaints received through NI Direct in respect to the company’s call centre or field staff responses to flooding incidents.

Telephone Complaints

Complaints received via telephone are reported as DG9 telephone complaints, not DG7. Billing telephone complaints are reported as DG6.

Date of Receipt

Written complaints are date-stamped as per the date of receipt.

Date of Dispatch

The date of dispatch refers to the date on which a response is sent to the customer. The date of dispatch is recorded as the date closed.

Response Time

This is the number of working days between receipt of a contact by Northern Ireland Water up to and including the day of dispatch of a response. For the purpose of this calculation, the day of receipt (provided it is a working day) is counted as day zero and the next working day as day one.

When an email or fax is received after 16:00 it would typically have been scanned, logged and indexed on the next working day.

The reported date of receipt for emails/faxes received outside of normal operating hours is the actual date on which the complaint was delivered to the company. For example, if an email is received on a Saturday, this is recorded as day zero. The next working day (normally the Monday) would be counted as day one. If an email is received on a Sunday, then this is recorded as date of receipt (day zero) and (normally) Monday as day one.

Substantive Holding Reply

This is defined as a response to a written complaint which advises the customer that Northern Ireland Water needs to undertake additional investigations or other actions before being able to provide a full response. A holding response is considered substantive if it advises the customer what further action needs to be taken in order to fully respond, when this will be done and when they will receive a further communication from Northern Ireland Water.

Complaints remain open until all actions have been completed but will be closed back to the date of the holding response for reporting purposes when said actions have been completed.

When a date by which investigations or further actions will be complete cannot be given, we will give the date by which we will contact the customer again. Holding responses can be issued in writing or provided verbally by telephone.

Repeat Contact

Where a complaint has been responded to and results in a period of correspondence each written contact is treated as, and reported as, a separate complaint.

No complaints have been excluded from DG7 where Northern Ireland Water consider the complaint has been dealt with as far as they we able.

Consumer Council for Northern Ireland (CCNI)

Complaints received in writing via CCNI will be logged as complaints and recorded in DG7 figures. All complaints from CCNI are received in writing by email.

CCNI enquiries and follow-up questions are not recorded as complaints.

Changes to original categorisation

Open contacts can be re-categorised using RapidXtra screen wccm11 (Contact Amendments) and closed contacts can be re-categorised using RapidXtra screen wccm91 (Contact Date Maintenance).

There are a number of stages at which the categorisation of a written contact can be reviewed after it has been scanned, logged & indexed.

Whilst not exhaustive, the main activities during which the categorisation of contacts is regularly checked are:

- Customer Service Officer Review - it is the responsibility of the Customer Service Officer in the Complaints & Executive Mail Team to ensure that each written contact they are handling is closed in line with reporting guidelines. On initial review, they should ensure that the contact has been correctly categorised in line with the DG/Contact definitions. If incorrect, it is their responsibility to ensure that the contact is updated on RapidXtra accordingly. If unsure, they should seek guidance from their line manager.
- Line Management checks – the Complaints & Executive Mail Team Manager & Supervisor perform coaching using sampling of closed contacts. It is the responsibility of the Complaints & Executive Mail Team Manager & Supervisor to ensure that any contacts identified through this process which require re-categorisation are updated on RapidXtra.

Exclusions

3 written customer complaints were excluded from DG7 reporting during 23/24. The reason for the exclusions is because the complaints related to activities of other utilities, which is in line with the Level of Service Methodology.

Confidence Grades

The confidence grades assigned to lines 1-5, as shown below, remain the same as those assigned to the 22/23 performance figures.

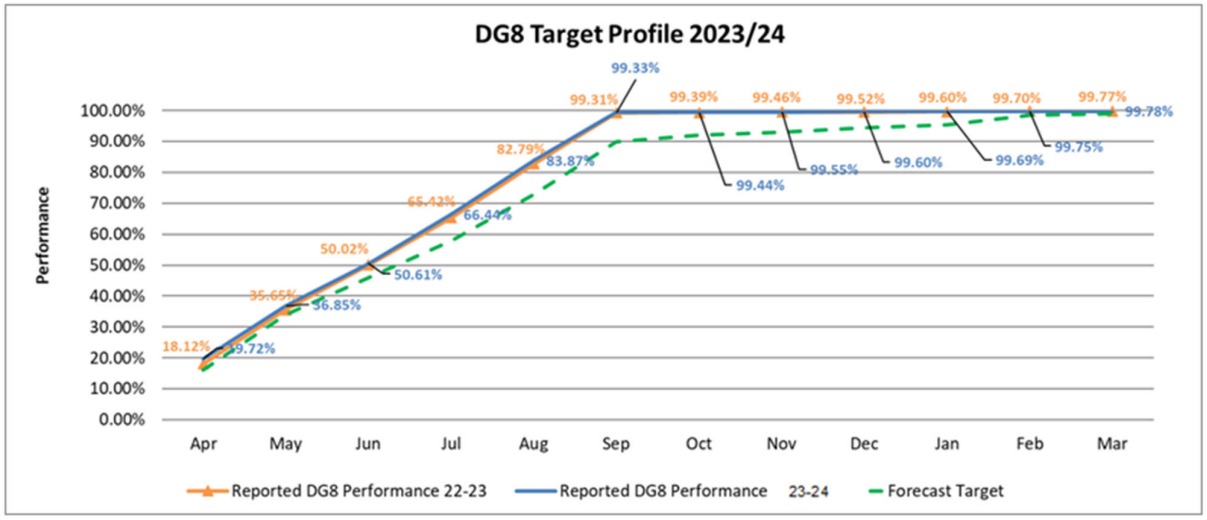
1	Total written complaints	B2
2	Number dealt with within 10 working days	B2
3	Percentage dealt with within 10 working days	B2
4	Number dealt with in more than 20 working days	B2
5	Percentage dealt with in more than 20 working days	B2

Lines 6-12 DG8 – Bills for metered customers

99.78% of meters were read and billed based on an ‘actual’ meter read during 23/24, exceeding the performance (99.77%) achieved in 22/23, and the highest DG8 performance by NIW to date.

The target for 24/25 remains at 99.00%.

DG8 Meters Read and Billed Performance (%)



The graph detailed above provides a monthly profile of the cumulative increase in DG8 reads throughout the course of 23/24. The monthly performance is based on actual meter reads out of the total meter stock base.

NIW achieved a read performance in the first 6 months of the year of 99.40% of meters being read and billed, the third year in a row this had been achieved and the highest performance for the first six months of the year. NIW continually manages and monitors the performance throughout the year to achieve these results, this is done through:

- Proactive engagement with customers to obtain access to properties to enable the meter to be read.
- Proactive management of meter maintenance programme to ensure meters where a read could not be obtained were prioritised.
- Proactive identification of in month new meter uploads which are required to be read and billed.
- Skipped meters were proactively investigated to resolve outstanding issues.
- Proactive case management of historical skipped meters to resolve complex skips.

NIW has continued to roll-out AMR meters as standard on all new meter installations and replacement jobs. The number of AMR meters increased by over 11,000 in the 2023/24 year largely due to the proactive replacements completed by NIW Field staff. NIW now has circa 30,000 AMR meters installed in the ground. These meters carry significant benefits over dumb meters:

- Helping to reduce Health and Safety risks with reading meters.
- Reducing skips from access issues as meters can be read without the need to enter the property.
- Allow drive-by reading to improve read efficiency.
- Capture and store 30min consumption data for up to 6 months, which can help with resolving customer disputes.

NIW has completed its two year SMART meter and Network trial with a Key Account Customer. The trial enabled NIW to explore several technologies identifying the strengths and weaknesses of each, whilst also enabling NIW to better understand the costs of rolling out SMART metering. This trial has helped NIW to identify suitable technologies for future SMART metering roll outs.

In the 23/24 year, the metering team have also worked alongside the Networks Water team as part of their SMART networks trial aimed at capturing live information from a specific DMA (Boucher Road). To capture the meter data for this trial NIW are utilising technology which proved successful as part of our previous SMART metering trial (Wize), it is hoped that this trial will go live in the first half of the 24/25 year.

NIW continues engagement with suppliers and the industry to further understand what future technology trends are emerging and how NIW can avail of them within the budgetary constraints.

In the 23/24 year, NIW completed the retender process for the supply of water meters, this tender was awarded to Diehl meterings and ensures that NIW have sufficient technological scope to complete further SMART meter roll outs in the future whilst also enabling NIW to continue its accelerated AMR rollout programme.

The 23/24 year has seen some strong results, the highest DG8 performance to date, and accelerated AMR replacement programme by NIW Field staff and the SMART networks trials alongside Networks Water. The year has also had its challenges, staffing resources continue with staff exiting the business leading to some extended periods with vacancies. Global supply chain issues remain which has also meant that NIW have had to closely manage and monitor stock to ensure sufficient stock has been available for all the work programmes being undertaken, and NIW have had to increase the volume of meters, they carry in stock to mitigate supply chain issues.

Billing Policy

Frequency of Bill Issue:

- Household properties – the Company do not bill household meters at present.
- Non-household – the Company aim to read twice a year and bill twice yearly.
- Large non-household users – the Company aim to read and bill monthly.

Customer Reads

The Company encourages our customers to take readings themselves so that they are aware of their usage. The company continues to insert a message on bills and recovery envelopes to remind customers of the importance of checking consumption by regular meter reading where possible. Customer reads can be submitted for billing purposes by using the Self-serve on-line facility available on our website, email or by calling our billing line.

Exclusions

Based on data extracted on 31st March 2024 from RapidXtra:

- 62,314 Meters were excluded in 23/24.

The company can exclude any unusual accounts or unusual circumstances that complicate the measure. The following are excluded from the indicators:

- Charged on another basis (not metered consumption)
- Retain for Review meters
- Trade-effluent meters
- DRD or NIW meters
- Fire supplies
- Properties occupied continuously for less than six months
- Complex accounts – Including combination meters i.e. the ‘low-flow’ element is excluded.

- Void properties

The table below illustrates the numerical breakdown and reason for Meters Excluded in 23/24:

Reason for Exclusion	Count of Exclusions	% of total Exclusions
Charged on another basis	59,156	94.93%
New Property	231	0.37%
Occupied < 181 consecutive days	103	0.17%
Void Property/No Occupier	2,824	4.53%
Grand Total	**62,314**	**100.00%**

For 23/24 the total meters excluded has increased by 775 compared to the total exclusion reported in 22/23.

Confidence Grades
The confidence grade is assigned based on methodology used to extract and report the DG8 performance. The information is extracted and summarised from RapidXtra via automated system reports. The 'DG8 Summary Report' does not require any manual manipulation. RapidXtra automatically categories each account based on its status using the most current and up to date data.

The confidence grades assigned to lines 6-12, as shown below, remain the same as those assigned to the 2019/20 performance figures:

6	Total Meter Accounts	A1
7	Metered accounts excluded from indicator	A1
8	Company readings	A1
9	Company or customer readings (or both)	A1
10	Estimated bills only	A1
11	No bills received during the report year	A1
12	Unread by company for 2 years	A1

Lines 13 – 17- DG9 Telephone Contact

DG9 Introduction

During the reporting year a total of 169,023 calls were made to the Public Advertised Company telephone numbers.

Call volumes for 2023/24 were 6,452 lower than the previous reporting year 2022/23 (175,475), with July (9,515) receiving the lowest call volumes YTD. There are a few reasons for the reduction in call volumes from 2022/23 to 2023/24:

- There were no Category One major incidents this year, these tend to cause a large volume of contacts when they occur.
- Contact channel shift to webchat has increased significantly;
- Customer journey reviews and system improvements untaken during the year.
- Septic Tank & Switchboard IVR deemed not fit for purpose and were switched off August 2023.

HVCA has been renamed HVCH (High Volume Call Handling) from September 2019 due to a new company providing the system.

The deployment of a High Volume Call Handling (HVCH) solution in NI Water is unique in the water industry, providing an enhanced customer experience and improved incident management when compared to other water companies in UK and on a par with other utilities in Northern Ireland i.e. NIE Networks. HVCH was available to handle overflow calls for customers reporting faults on the Waterline.

The HVCH system is presented in Agent First Mode, with the exception of 'No Water' calls which have been set to HVCH first since September 2020. The caller is presented with the menu selection and depending on the option selected and if a CRC agent available, passed to a CRC call Agent. If no Agents are available then the caller will enter into the HVCH call routing plan to have their issue logged. All CCR customers will go straight to Warm Voice (Agent First) and will not be directed through HVCH.

IVR Platform

An IVR platform was introduced to provide customers with another channel of choice, the IVR platform is available 24/7 and supports the reduction of warm voice calls into the Customer Relation Centre.

IVR is a technology that automates and simplifies interactions with incoming customer calls. In doing this, IVR provides a conversation, which can be either pre-recorded or generated audio that assists, directs, and/or guides customers automatically without the need to talk to an agent. Within these interactions customers are able to communicate by using either the dial pad or speech recognition.

- The only area currently serviced by IVR is Billing & Debt Line.

The IVR platform is not set to Agent first which means all calls will hit the Virgin switch first and then be directed to the IVR platform. If completed successfully on the IVR, the call will never hit the Avaya switch and will not be reported in Avaya CMS. The Billing & Debt line IVR is linked to the Billing Enquiry and will be reported using the CIRRUS Voice platform.

The Billing IVR and the Septic Tank IVR call volumes are contained in the table below. There has been little success with the voice recognition software deployed on the IVR Switchboard and as a result it has been turned off since 31st August 2022. This was also the case for Septic Tank IVR calls which were turned off in August 2023.
These calls are now on 'Agent First' mode and are directed to warm voice. The figures in the table represent the calls received from 1st April 2023 to 31st August 2024.

IVR Calls	FY23/24
IVR - Septic Tank	514
IVR - Billing	9,312

Line 14 - All Lines Busy

There were 0 instances of 'All lines busy' during the reporting year 2023/24. This stayed the same as in 22/23.

NI Water followed government guidance to work from home where they could during the pandemic. Call centre agents were also working from home, as a result changes where made to call routing and the Cirrus Platform was used to report on telephony as Call Media

was not compatiable. From the 1st September 2022 calls have been routed through the Avaya Telephony Platform and Avaya CMS have been used for reporting.

Lines 15 – Calls Abandoned

There were 9,545 calls abandoned on the Cirrus and Avaya CMS systems during the year leading to a reportable Company performance of 94.35% of 'calls not abandoned'. NI Water enhanced their Social Media offerings from 8am to 11pm 7 days a week from Nov-21 and introduced webchat as an alternative channel of choice for customers (8am to 11pm 7 days a week). To facilitate this additional offerings the 'calls not abandoned' contractual KPI was reduced to 95%.

All calls abandoned on HVCH are now classified as answered due to agreement with the Regulator and CCNI. However, for monthly Business and annual Regulatory reporting purposes all calls handled by HVCH continue to be analysed and reported as answered or abandoned using the agreed hang up location methodology.

NI Water is able to classify each hang up location as either 'answered' if the caller has reached a point in the call flow at which they can hear a salient message or 'abandoned' as HVCH has 226 distinct hang up locations allowing for detailed analysis of where the customer call ended and what messages the customer was presented with.

Line 17 - Telephone Complaints

Telephone complaints cover any telephone call from a customer or a customer's representative (e.g. Citizens Advice Bureau, solicitor) alleging that an action or inaction of the Company, or a service or lack of service provided by NI Water or agent/contractor has fallen below his/her expectation.

General statements of complaint are also counted. Customers may complain unfairly or unjustifiably; nevertheless, such calls are classed as complaints. Some complaints may be frivolous or vexatious, nevertheless these are reported.

As a general policy, the Company records telephone calls about the following water service issues as complaints: no water, lack of pressure, leaks, taste and odour, discoloration and hard water (except for simple enquires e.g. dishwater settings). Telephone calls about the following wastewater services are also recorded as complaints: sewer flooding other than those received through NI Direct/blockages, collapsed sewers/manholes, smells from sewage treatment works/pumping stations and flies from sewage treatment works.

Telephone complaint volumes decreased to 32,293 compared to 34,198 received during 2022/23 reporting period. As per Line 13 – 17 DG9 Telephone Contact overall call volumes have reduced in 2023/24 which could lead to a reduction in the number of telephone complaints.

Line 18 – Customers on the Customer Care Register

The Customer Care Register offers a range of free additional services to customers who are older, have a disability, a serious medical condition or require extra help when experiencing an interruption to their water supply.

A bespoke Power BI report has been created in conjunction with NI Water code of Practice - "Priority Services for Domestic Services" to report on CCR Customers. The report has been created with predefined filters to only return customers registered against the special needs listed below:

Special Needs Code	Need Description
01	Require Braille - Blind/partially sighted
02	Require Audio - Blind/partially sighted
03	Deaf
04	Vocally Impaired
06	Large Print Bill - Learning/Reading difficulties
07	Dialysis patient
08	Vulnerable
11	Nursing Home

Customers who are registered for multiple medical conditions will only be reported on once, except for when the customer is a Nursing Home or Hospice.

At the end of 2023/24 reporting year 2,798 properties were registered on the Customer Care Register, this has decreased slightly compared to the reported 2,822 for 2022/23.

Echo currently carry out a twice yearly review and contact with CCR customers. The first contact is by telephone which commences over the summer months. This call is a courtesy call and allows Echo to reconfirm contact details.

The second contact is the annual Newsletter (embedded below) which is sent out to all CCR Customers in November. The annual Newsletter reminds customers of the service available and other useful telephone numbers such as NIE Networks, Quick Check 101 etc. It also advises of the expectation of the delivery of bottled water on preparation for Winter. It is worth noting that requests to be added or removed from the register can be received following the distribution of this newletter.



CCR letter Nov 2022v1.0FACTSHEET.

Customers will only be removed from the CCR register on the request of the customer or family member.

Customer Satisfaction Measures

Lines 19 to 25 – Total Contacts and Unwanted Contacts

Line 19 – Total Contacts

Total contacts refers to the number of Telephone (Billing) and Operational telephone contacts the company has received from customers during the reporting year 2023/24. During the reporting year telephone contacts where received. The figure is obtained from the All Received CorVu report and is calculated using the Original CMS contacts logged within Rapid.

Line 20 – Unwanted Contacts

During the reporting year 2023/24 a total of 50,400 unwanted contacts were received. The target for 23/24 was 65,200 unwanted contacts which has been met.

An unwanted contact is a contact received from a customer that is ‘unwanted’ from the customer’s point of view. This includes a contact about an event or action that has caused

the customer unnecessary aggravation (however mild). This is determined by the subject matter of the contact.

The table below illustrates the breakdown of unwanted contacts across the 2023/24 financial year:

Month	Unwanted Contacts
Apr	4,603
May	5,202
Jun	3,438
Jul	4,893
Aug	4,061
Sep	4,197
Oct	4,150
Nov	3,596
Dec	4,438
Jan	4,147
Feb	3,757
Mar	4,603
Grand Total	**50,400**

Based on the total unwanted telephone contacts received by the company, 20,436 (41%) are relating to Sewerage Services and 24,360 (48%) are relating to Water Services.

The top Sewerage Service unwanted contact for 2023/24 is *'Blocked Sewer Inc Cleanup & Disinfect',* with a total of 11,048 (21.9%) of unwanted customer contacts.

The top Water Service unwanted contact for 2023/24 is '*No Water Complaint',* with a total of 13,686 (27.2%) of unwanted customer contacts.

There is a reduction in Unwanted Telephone Contacts from AIR 23 due to AIR 24 being a relatively quiet year in terms of incidents.


Unwanted + FPOCR algorithms.d

The correct logging of Wanted and Unwanted contacts is monitored monthly via varying call audits. These include contractual call quality checks, carried out by NI Water's Contracts Team, call calibration sessions hosted by the Customer Experience Team, ad hoc call listening by both the Meter and Billing as well as the Customer Experience teams, and additional call checks carried out by an external consultant employed by NI Water.

From the 2023/24 sample, 3 anomalies were identified where incorrect CMS codes were used to log the calls.

Line 22 – First Point of Contact

During the reporting year the First Point of Contact resolution (FPOCR) was 86% which meets the target for 23/24 which was 84%. This score has increased by 2% compared to 2022/23. In PC21 the window for FPOCR increased from 90 days to 180 days, meaning there was double the amount of time for a repeat contact to be recorded.

The table below illustrates the breakdown of FPOCR by month across the 2023/24 Financial Year.

Month	First Point of Contact Resolution (FPOCR)
Apr	85%
May	84%
Jun	85%
Jul	85%
Aug	85%
Sep	85%
Oct	87%
Nov	87%
Dec	88%
Jan	88%
Feb	87%
Mar	86%
Average	**86%**

When a contact requires an action and this action is completed and there has been no other contact from the same property on the same issue within a 180 day period (90 days before or 90 days after) then it shall be counted as 'First Point of Contact Resolution'.

First point of contact resolution is reported as a percentage of contacts resolved at FPOC against the number of issues.


Unwanted + FPOCR algorithms.d

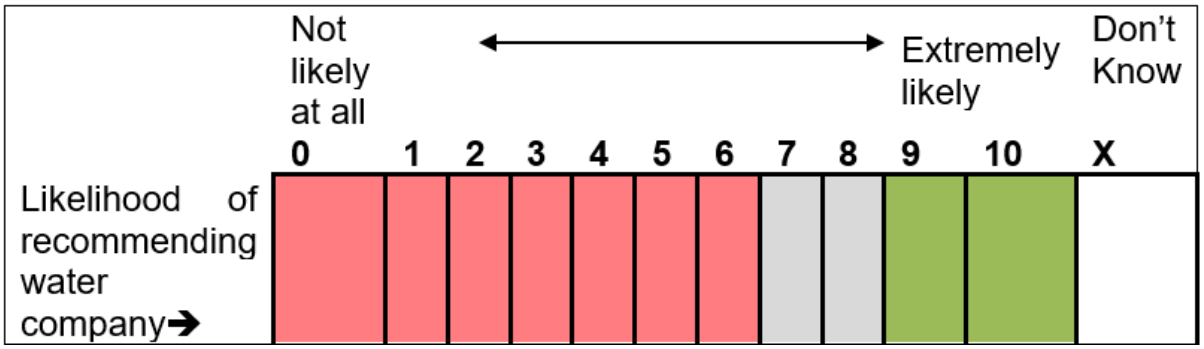
Line 23 – Customer Advocacy measure

Customer advocacy is an annual satisfaction score which is assessed by Northern Ireland Water's Voice of the Customer service in which surveys are conducted by Watermelon, an independent Customer Experience and Insights specialist.

The objective of the surveys is to capture the views of those customers who have had dealings with the company, not only through the main contact centre but to any part of the business.

Customers are asked "*Based on your recent experience with us, how likely are you to recommend NI Water? Please respond 0 for very unlikely up to 10 for very likely*".

The score is calculated using Net Promoter Score methodology based on results from the previous question.



Customer Advocacy is calculated: Promoter % - Detractor %

NPS Calculation document embedded below:

Net Promoter Score Algorithm.docx

The survey is based on resolved contacts (identified by either completed Work Orders, or issues which could be resolved at the time of contact and logged accordingly). It encompasses customers contacting us from all available channels (telephone, written, online) in relation to all functional areas of the business (Water services, Wastewater services, Call Centre and Metering/Billing). Every morning Watermelon provides the latest completed surveys via SFTP into NI Water's data warehouse where the master set of surveys are stored.

In 2023/24, NIW achieved a Customer Advocacy score of 46 which is above the PC21 target of 42. This is an increase of +10 from 2022/23. This increase in NPS can be attributed to a number of customer initiates and customer journey reviews undertaken during the year which has improved the customer experience.

Line 24 Omnibus survey question 1

Ipsos MORI is an independent market research company, who carry out customer surveys on behalf of many other clients, including Regulators, Councils and Utilities.

The objective of the research is to survey a sample of domestic and non-domestic customers who may or may not have contacted NI Water, to confirm their level of customer satisfaction and ascertain if there is any correlation in the level of satisfaction between customers who contact NI Water and those who don't.

The survey has to be sufficiently robust and statistically significant to enable benchmarking within multiple markets. The score is calculated from an average of overall satisfaction with the following statement:
"I am happy with the service I receive from NI Water."

The Omnibus survey is based on a sample of 997 domestic consumers and 500 non-domestic consumers that may have had direct or no contact with NI Water to request a service or make a complaint. The survey is carried out once a year, the data for the survey was collected between 29th February and 6th March 2024.
Each domestic survey consists of a freshly drawn sample of 1700 people, aged 16 and over(with each interview representing one household). The Domestic interviews were completed through the Ipsos MORI online platform KnowledgePanel. Panellists to the

KnowledgePanel are recruited via a random probability unclustered address-based sampling method, meaning that every household in the UK has a known chance of being selected to join the panel. Letters are sent to selected addresses in the UK (using the Postcode Address File) inviting them to become members of the panel. Members of the public who are digitally excluded are able to register to the Knowledge Panel either by post or by telephone, and are given a tablet, an email address, and basic internet access which allows them to complete surveys online.

The above detail is an indication of how Ipsos MORI use this KnowledgePanel nationwide, however for the purpose of our survey only panellists from Northern Ireland and in effect NI Water Customers were used. In Northern Ireland 1,700 panellists were available for this research and achieved 997 responses.

Each non-domestic survey is conducted via Computer Assisted Telephone Interviewing (CATI). The survey is derived from a random sample of businesses in Northern Ireland, with quotas applied to ensure that the survey mirrors the profile of the Northern Ireland business community insofar as this is possible, building quota requirements by region with a view to ensuring maximum geographical representativeness. Given that the data may be subject to media and public scrutiny the sample is controlled by industry sector and number of employees to ensure broad representativeness, although it is possible to add further area quota controls to the overall sample stratification. Throughout the course of the fieldwork, geographic analysis would be monitored, to ensure representation is being achieved.

Consumers are asked to what extent do you agree or disagree with the following statement? "I am happy with the service I receive from NI Water."

Strongly agree	1
Tend to agree	2
Neither agree nor disagree	3
Tend to disagree	4
Strongly disagree	5
Don't know	6

The level of satisfaction reported for 2023/24 has increased from the level of satisfaction reported in 2022/23. The domestic score has increased from 72 in 2022/23 to 74 in 2023/24 with the non-domestic score decreasing from 77 in 2022/23 to 73 in 2023/24. Some reasons for the reduction in score include:

- NI Water does not have control over the order in which the survey questions are asked within the Omnibus survey. There is potential for a previous question asked to impact the response given to the statement above.
- Impact of leaking pipes on customer bills, low water pressure and issues with metering were cited by customers.

As per table below, the overall score achieved was 73.7%

	AIR24		
	Nr	Score	Total / Av
Domestic	997	74	73,778
Non-domestic	500	73	36,500
Total / Average	**1497**		**73.7%**

Line 25 Omnibus survey question 2

Ipsos MORI is an independent market research company, who carry out customer surveys on behalf of many other clients, including Regulators, Councils and Utilities.

The objective of the research is to survey a sample of domestic and non-domestic customers who may or may not have contacted NI Water, to confirm their level of customer satisfaction and ascertain if there is any correlation in the level of satisfaction between customers who contact NI Water and those who don't.

The survey has to be sufficiently robust and statistically significant to enable benchmarking within multiple markets.

The score is calculated using Net Promoter Score methodology based on results from the following statement; if people could choose their water company how likely would you be to recommend your water company to a friend or colleague where 1 is 'not at all likely to recommend' and 10 is 'extremely likely to recommend'

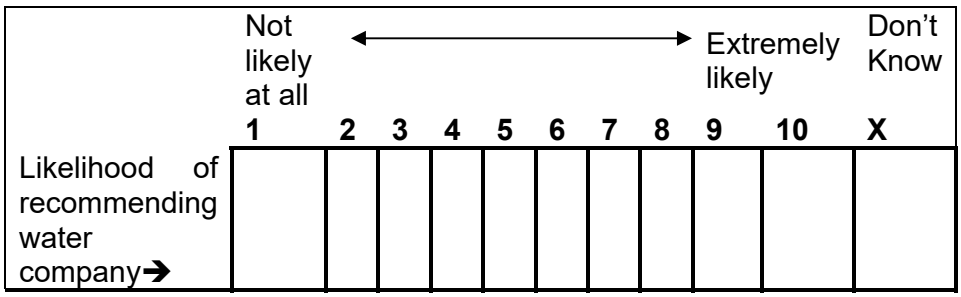
The Omnibus survey is based on a sample of 997 domestic consumers and 478 non-domestic consumers that may have had direct or no contact with NI Water to request a service or make a complaint. The survey is carried out once a year, the data for the survey was collected between the 29th February and 6th March 2024.

Each domestic survey consists of a freshly drawn sample of 1700 people, aged 16 and over(with each interview representing one household). The Domestic interviews were completed through the Ipsos MORI online platform KnowledgePanel. Panellists to the KnowledgePanel are recruited via a random probability unclustered address-based sampling method, meaning that every household in the UK has a known chance of being selected to join the panel. Letters are sent to selected addresses in the UK (using the Postcode Address File) inviting them to become members of the panel. Members of the public who are digitally excluded are able to register to the Knowledge Panel either by post or by telephone, and are given a tablet, an email address, and basic internet access which allows them to complete surveys online.

The above detail is an indication of how Ipsos MORI use this Knowledge Panel nationwide, however for the purpose of our survey only panellists from Northern Ireland and in effect NI Water Customers were used. In Northern Ireland 1,700 panellists were available for this research and achieved 997 responses.

Each non-domestic survey is conducted via Computer Assited Telephone Interviewing (CATI). The survey is derived from a random sample of businesses in Northern Ireland, with quotas applied to ensure that the survey mirrors the profile of the Northern Ireland business community insofar as this is possible, building quota requirements by region with a view to ensuring maximum geographical representativeness. Given that the data may be subject to media and public scrutiny the sample is controlled by industry sector and number of employees to ensure broad representativeness, although it is possible to add further area quota controls to the overall sample stratification. Throughout the course of the fieldwork, geographic analysis would be monitored, to ensure representation is being achieved.

The score is calculated using Net Promoter Score methodology based on results from the following statement; if people could choose their water company how likely would you be to recommend your water company to a friend or colleague where 1 is 'not at all likely to recommend' and 10 is 'extremely likely to recommend'



Advocacy across domestic customers has remained at 62% in 2023/24 compared to 62% in 2022/23. Non-domestic advocacy has improved to 69% in 2023/24 compared to 68% in 2022/23. Overall score has decreased slightly to 7.4 in 2023/24 compared to a score at 7.5% in 2022/23.

As per table below, the overall score achieved was 7.5.

	AIR24		
	Nr	**Score**	**Total / Av**
Domestic	997	7.21	7,188
Non-domestic	478	7.75	3,705
Total / Average	**1475**		**7.4%**

Confidence Grades

Call volume data is derived using a combination of telephony systems, the HVCH system for automated calls, Cirrus and Avaya CMS that draws information from the Avaya system for agent handled calls and the IVR platform for calls linked to the Billing Enquiry lines.

As per methodology, the process of reconciliation between the telephony systems is largely manual, as calls transferring from Avaya CMS are deemed to be received in HVCH; however the confidence grade assigned to the data remains at 'A2', as per the AIR guidance.

Customer Satisfaction retains the confidence grade of 'A1' as it is conducted independently and the results are provided to NI Water by Ipsos MORI. In relation to the change in methodology for the Omnibus survey (changing from face to face interviews to KnowledgePanel) we had assurances from Ipsos MORI that whilst the method in which the responses were received from Domestic customers, there were no fundamental changes to how the data was reviewed and scored and therefore the confidence grades have remained the same.

NORTHERN IRELAND WATER LIMITED - ANNUAL INFORMATION RETURN

ANNUAL INFORMATION RETURN - TABLE 5A KEY OUTPUTS

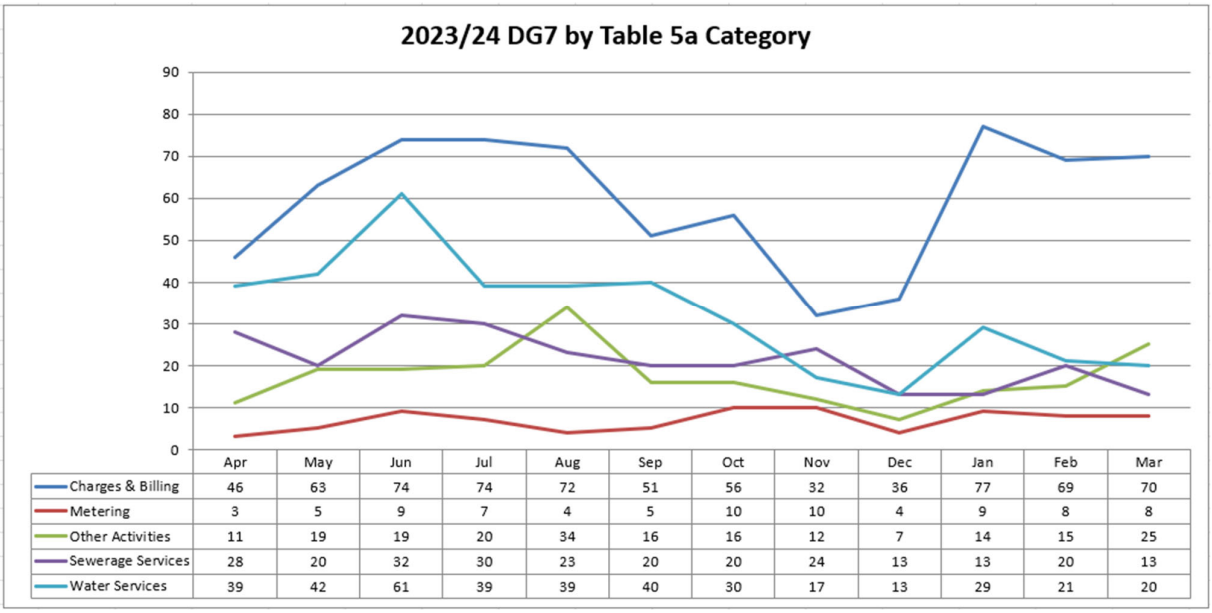
CUSTOMER COMPLAINTS DATA FOR CONSUMER COUNCIL FOR NORTHERN IRELAND (TOTAL)

	DESCRIPTION	UNITS	DP	1 REPORTING YEAR 2015-16	CG	2 REPORTING YEAR 2016-17	CG	3 REPORTING YEAR 2017-18	CG	4 REPORTING YEAR 2018-19	CG	5 REPORTING YEAR 2019-20	CG	6 REPORTING YEAR 2020-21	CG	7 REPORTING YEAR 2021-22	CG	8 REPORTING YEAR 2022-23	CG	9 REPORTING YEAR 2023-24	CG	10 REPORTING YEAR 2024-25	CG	11 REPORTING YEAR 2025-26	CG	12 REPORTING YEAR 2026-27	CG
A	**TOTAL WRITTEN COMPLAINTS**																										
1	Total written complaints	nr	0	2,269	B2	2,375	B2	2,274	B2	2,133	B2	1,958	B2	1,885	B2	1,954	B2	1,812	B2	1,656	B2						
2	Number dealt with within 10 working days	nr	0	2,266	B2	2,375	B2	2,271	B2	2,133	B2	1,957	B2	1,883	B2	1,954	B2	1,812	B2	1,656	B2						
3	Number dealt with in more than 20 working days	nr	0	2	B2	0	B2	3	B2	0	B2	0	B2	1	B2	0	B2	0	B2	0	B2						
B	**CATEGORY OF WRITTEN COMPLAINTS**																										
	(i) Charges and Bills																										
4	Total written complaints about charging and billing issues	nr	0	890	B2	935	B2	699	B2	815	B2	779	B2	658	B2	910	B2	710	B2	720	B2						
5	Total written complaints about charging and billing issues escalated to second stage review	nr	0	92	B2	87	B2	72	B2	38	B2	60	B2	53	B2	55	B2	49	B2	56	B2						
	(ii) Water Service																										
6	Total written complaints about water service issues	nr	0	505	B2	600	B2	616	B2	433	B2	436	B2	568	B2	455	B2	440	B2	390	B2						
7	Total written complaints about water service issues escalated to second stage review	nr	0	33	B2	29	B2	51	B2	36	B2	23	B2	22	B2	16	B2	5	B2	10	B2						
	(iii) Sewerage Service																										
8	Total written complaints about sewerage service issues	nr	0	487	B2	533	B2	579	B2	550	B2	454	B2	418	B2	330	B2	359	B2	256	B2						
9	Total written complaints about sewerage service issues escalated to second stage review	nr	0	29	B2	43	B2	73	B2	128	B2	24	B2	13	B2	13	B2	13	B2	15	B2						
	(iv) Metering																										
10	Total written complaints about metering issues	nr	0	104	B2	75	B2	91	B2	73	B2	73	B2	51	B2	54	B2	60	B2	82	B2						
11	Total written complaints about metering issues escalated to second stage review	nr	0	4	B2	5	B2	9	B2	4	B2	8	B2	8	B2	4	B2	5	B2	4	B2						
	(v) Other activities																										
12	Total written complaints about other service issues or activities	nr	0	283	B2	232	B2	289	B2	262	B2	216	B2	190	B2	205	B2	243	B2	208	B2						
13	Total written complaints about other service issues or activities escalated to second stage review	nr	0	18	B2	14	B2	22	B2	19	B2	27	B2	5	B2	7	B2	7	B2	2	B2						
C	**OTHER CUSTOMER RESPONSE MEASURES**																										
14	Number of holding responses issued	nr	0	413	B2	326	B4	286	B4	290	B4	211	B4	243	B4	311	B2	219	B2	491	B2						
15	Consumer Council investigations	nr	0	34	B2	30	B2	23	B2	5	B2	10	B2	4	B2	2	B2	1	B2	1	B2						

Table 5a – DG7 Response to Written Complaints

DG7 Received Annual Profile & Explanation

The volume of DG7 complaints received each month during 23/24 by type is shown in the chart below.



	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
Charges & Billing	46	63	74	74	72	51	56	32	36	77	69	70
Metering	3	5	9	7	4	5	10	10	4	9	8	8
Other Activities	11	19	19	20	34	16	16	12	7	14	15	25
Sewerage Services	28	20	32	30	23	20	20	24	13	13	20	13
Water Services	39	42	61	39	39	40	30	17	13	29	21	20

In line with previous years, those falling into the Charges & Billing Category remain the principal written complaint type. In 23/24, 43% of the total written complaints received fall into this category. This represents an 4% increase in comparison to the previous reporting period.

There was an increase in Charges & Billing complaints from May 2023, which would have coincided with the annual unmeasured bill run, and they remained high until August 2023. Volumes dropped significantly from this point until December, where we recorded the lowest number of billing complaints for the year; 36. There was a secondary peak in January 2024. No specific drivers identified; however, this is likely related to the reduced numbers received in the preceding months. The reduction in December is typical for time of year and due to a number of businesses being closed over the Christmas period and it is therefore expected for volumes to be lower. The upturn in January is likely due to these business customers resuming trade after the Christmas closures.

Volumes for Water Services peaked in June 2023 and then followed a downward trajectory until December 2023. The peak in June was the result of the warmer weather, which contributed to Algae Blooms in Lough Neagh, which subsequently led to an increase in Water Quality complaints. The data shows a secondary ‘peak’. However; this isn’t an actual peak but is instead typical volumes but they just appear increased due to the very low volumes in the previous month.

Volumes for Sewerage Services remained consistent throughout most of 2023/24. However; there was a small peak in June 2023. which was due to an extended period of extremely dry weather in May followed by extreme wet weather in June, which caused an increase in blocked sewers and flooding complaints.

There were no other key drivers or themes linked to billing or operational complaints identified during the reporting period.

Second Stage Complaints
Systems remained in place to enable the reporting of complaints escalated to second stage review throughout 23/24.

It should be noted that the associated data does not highlight instances of the same customers sending further complaints on the same issue following a second stage complaint. Second stage complaints have not been analysed to determine whether they would be deemed upheld or unjustified by the Company.

Sampling audits were performed throughout the year to ensure accuracy of categorisation.

Other Customer Measures
Monitoring systems remain in place to allow reporting of:

- the number and frequency of repeat complaints; and
- the number and frequency of holding responses.

Whilst there is no data line to report on repeat complaints, those complaints reported as having been escalated to second stage review could be interpreted as representing the number of repeat written complaints.

Monitoring systems have been in place throughout the reporting period to support reporting on the number holding responses issued throughout 23/24.

System-based report data was used to derive the number of holding responses issued between 01/04/23 and 31/03/24.

The figure reported in Line 14 is the total recorded number of holding responses issued to customers during 23/24 owing to pending investigations linked to open DG7 contacts which were received in 23/24. It does not include holding responses issued within 23/24 in relation to DG7 contacts received in the previous reporting year.

The reported figure does not represent the number of unique DG7 contacts for which one or more holding response was issued.

In cases where the investigations were ongoing by the expiry date of the initial holding response, a further holding response will have been issued.

NORTHERN IRELAND WATER LIMITED - ANNUAL INFORMATION RETURN

ANNUAL INFORMATION RETURN - TABLE 6A BAD DEBT
OUTSTANDING REVENUE AND BREAKDOWN OF CUSTOMER SERVICES OPERATING EXPENDITURE (TOTAL

	DESCRIPTION	UNITS	DP	1 REPORTING YEAR 2015-16	CG	2 REPORTING YEAR 2016-17	CG	3 REPORTING YEAR 2017-18	CG	4 REPORTING YEAR 2018-19	CG	5 REPORTING YEAR 2019-20	CG	6 REPORTING YEAR 2020-21	CG	7 REPORTING YEAR 2021-22	CG	8 REPORTING YEAR 2022-23	CG	9 REPORTING YEAR 2023-24	CG	10 REPORTING YEAR 2024-25	CG	11 REPORTING YEAR 2025-26	CG	12 REPORTING YEAR 2026-27	CG
A	REVENUE OUTSTANDING - MEASURED HOUSEHOLDS																										
	Lines 1 to 14 not used																										
B	REVENUE OUTSTANDING - UNMEASURED HOUSEHOLDS																										
	Lines 15 to 28 not used																										
C	REVENUE OUTSTANDING - MEASURED NON HOUSEHOLDS																										
29	Total revenue outstanding < 48 months (measured non households)	£m	3	7.220	A2	7.305	A2	7.009	A2	6.112	A2	5.496	A2	6.175	A2	6.139	A2	6.235	A2	7.240	A2						
30	Number of measured non households with outstanding revenue < 48 months	nr	0	17,091	A2	11,715	A2	11,517	A2	9,781	A2	11,102	A2	12,402	A2	13,156	A2	7,818	A2	13,697	A2						
31	Revenue outstanding < 3 months (measured non households)	£m	3	5.530	A2	5.376	A2	5.611	A2	5.136	A2	4.862	A2	4.553	A2	5.520	A2	5.695	A2	6.484	A2						
32	Number of measured non households with outstanding revenue < 3 months	nr	0	10,405	A2	7,992	A2	8,576	A2	7,310	A2	8,379	A2	8,645	A2	10,450	A2	7,238	A2	10,803	A2						
33	Revenue outstanding 3 - 12 months (measured non households)	£m	3	0.758	A2	1.100	A2	0.629	A2	0.454	A2	0.359	A2	0.931	A2	0.214	A2	0.508	A2	0.302	A2						
34	Number of measured non households with outstanding revenue 3 - 12 months	nr	0	4,889	A2	2,368	A2	1,906	A2	1,607	A2	1,762	A2	2,721	A2	1,865	A2	259	A2	2,136	A2						
35	Revenue outstanding 12 - 24 months (measured non households)	£m	3	0.435	A2	0.446	A2	0.362	A2	0.163	A2	0.227	A2	0.493	A2	0.303	A2	0.021	A2	0.105	A2						
36	Number of measured non households with outstanding revenue 12 - 24 months	nr	0	1,142	A2	922	A2	737	A2	573	A2	642	A2	815	A2	552	A2	242	A2	564	A2						
37	Revenue outstanding 24 - 36 months (measured non households)	£m	3	0.497	A2	0.383	A2	0.407	A2	0.359	A2	0.048	A2	0.198	A2	0.102	A2	0.012	A2	0.349	A2						
38	Number of measured non households with outstanding revenue 24 - 36 months	nr	0	656	A2	433	A2	298	A2	291	A2	319	A2	221	A2	288	A2	78	A2	193	A2						
39	Revenue outstanding 36 - 48 months (measured non households)	£m	3	0.000		0.000		0.000		0.000		0.000		0.000		0.000		0.000	A2	0.000	A2						
40	Number of measured non households with outstanding revenue 36 - 48 months	nr	0	0		0		0		0		0		0		0		0	A2	0	A2						
41	Revenue outstanding > 48 months (measured non households)	£m	3	0.000		0.000		0.000		0.000		0.000		0.000		0.000		0.000	A2	0.000	A2						
42	Number of measured non households with outstanding revenue > 48 months	nr	0	0		0		0		0		0		0		0		0	A2	0	A2						
D	REVENUE OUTSTANDING - UNMEASURED NON HOUSEHOLDS																										
43	Total revenue outstanding < 48 months (unmeasured non households)	£m	3	2.604	A2	2.647	A2	2.600	A2	2.650	A2	2.870	A2	3.016	A2	3.338	A2	0.358	A2	3.898	A2						
44	Number of unmeasured non households with outstanding revenue < 48 months	nr	0	9,664	A2	8,881	A2	8,679	A2	8,262	A2	8,974	A2	8,512	A2	9,573	A2	328	A2	9,350	A2						
45	Revenue outstanding <3 months (unmeasured non households)	£m	3	2.282	A2	2.351	A2	2.211	A2	2.237	A2	2.552	A2	2.550	A2	2.681	A2	0.003	A2	3	A2						
46	Number of unmeasured non households with outstanding revenue < 3 months	nr	0	8,224	A2	8,102	A2	8,056	A2	7,650	A2	8,160	A2	7,236	A2	8,429	A2	80	A2	8,591	A2						
47	Revenue outstanding 3 -12 months (unmeasured non households)	£m	3	0.154	A2	0.132	A2	0.203	A2	0.142	A2	0.085	A2	0.157	A2	0.209	A2	0.048	A2	0.240	A2						
48	Number of unmeasured non households with outstanding revenue 3 - 12 months	nr	0	190	A2	256	A2	160	A2	177	A2	217	A2	443	A2	362	A2	142	A2	471	A2						
49	Revenue outstanding 12-24 months (unmeasured non households)	£m	3	0.113	A2	0.116	A2	0.126	A2	0.165	A2	0.170	A2	0.193	A2	0.197	A2	0.248	A2	0.124	A2						
50	Number unmeasured non households with outstanding revenue 12 - 24 months	nr	0	662	A2	366	A2	326	A2	316	A2	435	A2	646	A2	398	A2	129	A2	101	A2						
51	Revenue outstanding 24-36 months (unmeasured non households)	£m	3	0.055	A2	0.048	A2	0.060	A2	0.106	A2	0.063	A2	0.116	A2	0.251	A2	0.059	A2	0.134	A2						
52	Number of unmeasured non households with outstanding revenue 24 - 36 months	nr	0	588	A2	157	A2	137	A2	119	A2	162	A2	187	A2	384	A2	-23	A2	187	A2						
53	Revenue outstanding 36 -48 months (unmeasured non households)	£m	3	0.000		0.000		0.000		0.000		0.000		0.000		0.000		0.000	A2	0.000	A2						
54	Number of unmeasured non households with outstanding revenue 36 - 48 months	nr	0	0		0		0		0		0		0		0		0	A2	0	A2						
55	Revenue outstanding >48 months (unmeasured non households)	£m	3	0.000		0.000		0.000		0.000		0.000		0.000		0.000		0.000	A2	0.000	A2						
56	Number of unmeasured non households with outstanding revenue > 48 months	nr	0	0		0		0		0		0		0		0		0	A2	0	A2						
E	REVENUE WRITTEN OFF																										
57	Amount of revenue written off from measured households	£m	3																								
57a	Amount of revenue written off from measured non-households	£m	3	1.237	A2	0.341	A2	0.474	A2	0.442	A2	0.290	A2	0.501	A2	0.229	A2	0.249	A2	0.198	A2						
58	Amount of revenue written off from unmeasured households	£m	3																								
58a	Amount of revenue written off from unmeasured non-households	£m	3	0.083	A2	0.045	A2	0.056	A2	0.051	A2	0.042	A2	0.065	A2	0.046	A2	0.040	A2	0.075	A2						
F	CUSTOMER SERVICES OPERATING EXPENDITURE																										
59	General customer services operating expenditure Total	£m	3	6.337	A2	6.898	A2	6.453	A2	6.806	A2	8.014	A2	8.183	A2	9.214	A2	9.978	A2	10.518	A2						
i	Employment costs	£m	3	3.501	A2	3.972	A2	3.933	A2	4.196	A2	4.858	A2	5.154	A2	5.528	A2	5.765	A2	6.437	A2						
ii	Hired and contracted costs	£m	3	3.018	A2	2.876	A2	2.593	A2	2.770	A2	3.142	A2	2.892	A2	3.502	A2	4.221	A2	4.034	A2						
iii	Other	£m	3	0.738	A2	0.985	A2	0.951	A2	0.906	A2	1.040	A2	1.251	A2	1.326	A2	1.266	A2	1.452	A2						
iv	Adjustments	£m	3	-0.920	B3	-0.935	A2	-1.024	A2	-1.066	A2	-1.026	A2	-1.114	A2	-1.142	A2	-1.274	A2	-1.404	A2						
60	Outstanding revenue collection operating expenditure (households)	£m	3																								
60a	Outstanding revenue collection operating expenditure (non households)	£m	3	1.934	DX	1.950	A2	2.098	A2	2.215	A2	2.234	A2	2.169	A2	2.323	A2	2.482	A2	2.693	A2						
61	Donations to charitable trusts assisting customers in debt (households)	£m	3																								
62	Operating expenditure due to vulnerable household customers	£m	3																								
63	Total customer services operating expenditure	£m	3	8.271	A2	8.848	A2	8.551	A2	9.021	A2	10.248	A2	10.352	A2	11.537	A2	12.460	A2	13.211	A2						

Table 6a – Bad Debt

Overview

The company operates a partnership with an external service provider (Echo) for customer contact and billing. Customer Services Delivery Directorate works closely with the supplier on all billing matters including debt recovery, designations of customers for write off of debt and estimation of the level of bad debt provisioning to be put in place for potential future write-offs.

The service provider furnishes monthly information for non-domestic measured water and trade effluent income, cash, write-offs, VAT and closing debtor balances to the company from the billing system (RapidXtra). This information is used to produce the monthly management accounts. The figures in Table 6a are derived from this information.

The figures contained within the table are clarified below:

Box A – Revenue Outstanding – Measured Households

For the year ended 31 March 2024 NI Water had no actual revenue from households as this is received by way of a subsidy from Department for Infrastructure ("DfI"). There was £1.85m due to NIW from DfI for subsidy at 31 March 2024. This figure varies to the Statutory Accounts as Septic Tank subsidy is not reported in AIR as it is classified as non-appointed income in the Regulatory accounts.

Box B – Revenue Outstanding – Unmeasured Households

As above, income is received by way of a subsidy from DfI.

Box C – Revenue Outstanding – Measured Non-Households

Revenue outstanding from non-households is the amount of revenue relating to measured water, measured sewerage and trade effluent charges that had been billed in the year but not collected at 31 March 2024.

At 31 March 2024 the closing trade debtor balance was £7.240m. Trade Debtors increased this year largely due to increased tariffs.

The debtor balance reported figure is made up of various GL codes and is calculated as measured water and sewerage debtors (including Trade Effluent debtors) less unreconciled receipts, bad debt provision and provision for discount. The bad debt provision is £3.457m and is made up of the following:

- £0.232m for debt over 4 years
- £0.002m for debt 3 - 4 years
- £0.286m for debt 2 – 3 years
- £0.501m for debt 1 – 2 years
- £1.100m for debt 90 – 365 days
- £1.335m for debt less than 90 days

There is one GL code for measured water and sewerage debtors. At year end the GL debtor balance (gross of credit balances) was approx. £1.7m less than the detailed debtors listing provided by Echo. This was due to the following:

- Future system adjustments (£1.0m)
- Other adjustments (£0.7m)

Summary of all relevant rows for Section C

Row 29 – Total Revenue Outstanding < 48 months - Measured Non Households: The total amount of revenue at the end of 2023/24 outstanding from measured non households for less than 48 months. Balance as at 31 March 2024 was £7.240m.

Row 30 – Number of Measured Non-Households with Outstanding Revenue < 48 months: The number of measured non households with revenue outstanding for less than 48 months at 31 March 2024 was 13,697. The number of households has been adjusted in line with the decrease in debtors taking account of anticipated future system adjustments and other adjustments of £1.7m. The £1.7m is approximately 10.5% of total outstanding debtors at 31 March 2024 of £16.5m. An assumption was made to apply a 10.5% reduction across all measured revenue age groups up to 36 months.

Row 31 – Revenue Outstanding < 3 months (Measured Non Households): The total amount of revenue at the end of 2023/24 that has been outstanding from measured non households for less than 3 months. Balance as at 31 March 2024 was £6,484.

Row 32 – Number of Measured Non-Households with Outstanding Revenue < 3 months: The number of measured non households at end of 2023/24, with revenue outstanding for less than 3 months. As at 31 March 2024 this totalled 10,803.

Row 33 – Revenue Outstanding 3-12 months (Measured Non Households): The total amount of revenue at the end of 2023/24 that has been outstanding from measured non households for at least 3 months but less than 12 months. Balance as at 31 March 2024 was £0.302m.

Row 34 – Number of Measured Non-Households with Outstanding Revenue 3-12 months: The number of measured non households at end of 2023/24 with revenue that has been outstanding for at least 3 months but less than 12 months. At 31 March 2024 this totalled 2,136.

Row 35 – Total Revenue Outstanding 12-24 months (Measured Non Households): The total amount of revenue at the end of 2023/24 outstanding from measured non households for at least 12 months but less than 24 months. At 31 March 2024 this totalled £0.105m.

Row 36 – Number of Measured Non-Households with Outstanding Revenue 12-24 months: The number of measured non households at end of 2023/24 with revenue that has been outstanding for at least 12 months but less than 24 months. At 31 March 2024 this totalled 564.

Row 37 – Total Revenue Outstanding 24-36 months (Measured Non Households): The total amount of revenue at the end of 2023/24 outstanding from measured non households for at least 24 months but less than 36 months. At 31 March 2024 this totalled £0.349m.

Row 38 – Number of Measured Non-Households with Outstanding Revenue 24-36 months: The number of measured non households at end of 2023/24 with revenue that has been outstanding for at least 24 months but less than 36 months. At 31 March 2024 this totalled 193.

Row 39 – Number of Measured Non-Households with Outstanding Revenue 36-48 months: The number of measured non households at end of 2023/24 with revenue that has been outstanding for at least 36 months but less than 48 months.

Once the bad debt provision is applied there are no debtors greater than 36 months. Therefore at 31 March 2024 this row and all remaining rows in box C are zero.

Box D – Revenue Outstanding – Unmeasured Non-Households

Revenue outstanding from non-households is the amount of revenue relating to unmeasured water and sewerage charges that had been billed in the year but not collected at 31 March 2024.

- At 31 March 2024 the closing trade debtor balance was £3.898m (31 March 2023, £0.358m).

The debtor balance reported figure is made up of unmeasured water and sewerage debtors less bad debt provision. The bad debt provision is £0.157m and is made up of the following:

- £0.008m for debt over 4 years
- £0.004m for debt 3 - 4 years
- £0.015m for debt 2 – 3 years
- £0.023m for debt 1 – 2 years
- £0.049m for debt 90 – 365 days
- £0.058m for debt less than 90 days

Summary of all relevant rows for Section D

Row 43 – Total Revenue Outstanding < 48 months - Unmeasured Non Households: The total amount of revenue at the end of 2023/24 outstanding from unmeasured non households for less than 48 months. Balance at 31 March 2024 was £3.898m.

Row 44 – Numbers of Unmeasured Non-Households with Outstanding Revenue < 48 months: The number of unmeasured non households at the end of 2023/24 with revenue that has been outstanding for less than 48 months. Total at 31 March 2024 was 9,350.

Row 45 – Revenue Outstanding < 3 months - Unmeasured Non Households: The total amount of revenue at the end of 2023/24 outstanding from unmeasured non households for less than 3 months. Balance at 31 March 2024 was £3.400.

Row 46 – Numbers of Unmeasured Non-Households with Outstanding Revenue < 3 months: The number of unmeasured non households at the end of 2023/24 with revenue outstanding for less than 3 months. Total at 31 March 2024 was 8,591.

Row 47 – Revenue Outstanding 3-12 months - Unmeasured Non Households: The total amount of revenue at the end of 2023/24 outstanding from unmeasured non households for at least 3 months but less than 12 months. Balance at 31 March 2024 was £0.240m.

Row 48 – Numbers of Unmeasured Non-Households with Outstanding Revenue 3-12 months: The number of unmeasured non households at end of 2023/24 with revenue outstanding for at least 3 months but less than 12 months. Total at 31 March 2024 was 471.

Row 49 – Revenue Outstanding 12-24 months - Unmeasured Non Households: The total amount of revenue at the end of 2023/24 outstanding from unmeasured non households for at least 12 months but less than 24 months. Balance at 31 March 2024 was £0.124m.

Row 50 – Numbers of Unmeasured Non-Households with Outstanding Revenue 12-24 months: The number of unmeasured non households at end of 2023/24 with revenue

outstanding for at least 12 months but less than 24 months. Total at 31 March 2024 was 101.

Row 51 – Revenue Outstanding 24-36 months - Unmeasured Non Households: The total amount of revenue at the end of 2023/24 outstanding from unmeasured non households for at least 24 months but less than 36 months. Balance at 31 March 2024 was £0.134m.

Row 52 – Numbers of Unmeasured Non-Households with Outstanding Revenue 24-36 months: The number of unmeasured non households at end of 2023/24 with revenue outstanding for at least 24 months but less than 36 months. Total at 31 March 2024 was 187.

Row 53 – Revenue Outstanding 36-48 months - Unmeasured Non Households: The total amount of revenue at the end of 2023/24 outstanding from unmeasured non households for at least 36 months but less than 48 months.

Once the bad debt provision is applied there are no debtors greater than 36 months. Therefore at 31 March 2024 this row and all remaining rows in box D are zero.

Box E – Revenue Written Off

Bad debt write-offs

The bad debt write off policy is detailed below. As with all other customer data the company receives monthly figures for bad debt write-offs. The figure for the year is £0.273m (2022/23, £0.289m).

Authorisation of bad debt write-off

With regard to writing off bad debts the service provider has authorisation to write off in accordance with the financial delegations.

Authorisation approval levels are as follows:

Delegation Limits [By Item]	Recommendation from (External service provider)	Approval required Grade (Internal)	DoF/Dfl * (External)
Value			N/A
Up to £100	Agent	Billing, Revenue & Collection Manager L4.	
>£100 to £1,000	Team Manager		
>£1,000 to £5,000	Service Delivery Manager		
>£5,000 to £10,000	Head of Service Delivery	Billing, Revenue & Collections Senior Manager L3	
>£10,000 to £50,000		Director of Customer Service Delivery L2	
>£50,000		Chief Executive	
> £250,000	N/A	Board	>£500k

* All submissions for external approval must be submitted through F&R to the Dfl SU.

Revenue written off is revenue relating to non-household water and sewerage charges along with any trade effluent charges that have been written off in the year.

Revenue written off only includes water, sewerage and trade effluent charges and does not include court costs or other items included.

NI Water uses a third party contractor to manage their debtors and a Debt Management Strategy was drawn up for Echo use to guide their actions and decisions.

Summary of all relevant rows for Section E

Row 57 – Measured Households: As NI Water receives no revenue from households, there was no revenue written off from measured households.

Row 57a – Measured Non-Households: Bad debts written off are calculated on a monthly basis and include trade effluent. The total for 2023/24 was £0.198m (2022/23, £0.249).

Row 58 – Unmeasured Households: As NI Water receives no revenue from households, there was no revenue written off from unmeasured households.

Row 58a – Unmeasured Non-Households: Bad debts written off are calculated on a monthly basis. The total for 2023/24 was £0.075m (2022/23, £0.040m).

Bad Debt provisioning

The methodology for calculating the bad debt provision is based on an analysis of industry specific bad debt which banded specific industry types as high, medium or low risk in terms of collectability of debt. Percentages were then applied in terms of bad debt provision. Percentages for 'high risk' were set at an increased level and percentages for 'low risk' at a reduced level. NI Water's bad debt provision is calculated as follows:

Provision	0-30 days	31-60 days	61-90 days	91-120 days	121-150 days	151-180 days	180-365 days	1 - 2 years	2 - 3 years	3 - 4 years	4+ years
Default provision - HIGH	40%	40%	65%	65%	80%	90%	100%	100%	100%	100%	100%
Default provision - MED	25%	25%	35%	35%	60%	60%	80%	100%	100%	100%	100%
Default provision - LOW	20%	20%	25%	25%	40%	40%	50%	75%	100%	100%	100%

Allocation of High, Medium and Low

A review of the total debtors (debit balances) was carried out in March 2024. Account balance and aged debt taken into consideration when applying risk of default. Data was filtered by VAT SIC code. Assumptions / Considerations were made in the context of the ongoing difficult economic conditions.

The VAT code in tandem with past payment behaviours, legal recovery status, aged debt profile, NI/RoI cross-border trading and various issues/disputes raised via repeat customer contact were all considered when allocating the risk category.

- Review top customers by name.
- All public sector accounts reviewed e.g., Health Trusts, Education Boards, Schools - <30 days Low>30days Med debts.
- Agricultural customers grouped and reviewed - >£5K reviewed individually and set to HIGH. £1k to £5k reviewed individually and set to HIGH if debt > 180 days, or MED if <180 days. DD customers low.
- Retail customers grouped and reviewed.
- Hotels, bars and restaurants reviewed - Final account no forwarding address - High.
- Charities, voluntary groups, housing associations, churches grouped and reviewed.
- Construction companies, quarries grouped and reviewed.

- Accounts with STD VAT code reviewed individually, direct debit payers on MED (these accounts are mainly new customers who have not yet completed VAT questionnaire, so we can't be sure of activity).
- Manufacturers grouped and reviewed by name (high value) and activity (lower value).
- Food processors grouped and reviewed.
- Unmeasured customers in sic code 6 classified as HIGH.
- Unmeasured customers in sic code 8 (Banks and professional services) classified as LOW or MED.
- Banks all at MED risk.
- All final accounts classified as HIGH risk.
- **Vat code:**
  - Energy as low unless debt greater than 180 days then med.
  - Minerals - <30days med. > 30 days high.
  - Metal Goods and Engineering - DD - Low. >180days High.
  - Other manufacturing - >180 days high if not Key account or DD.
  - Construction < 30 days med. > 30days high.
  - Distribution/Catering <30days Med. > 30days High.
  - Transport > 60days High. <60days med.
  - Banking & Finance - DD Low.
  - Other services - DD Low, >£1k, MED.
  - Std Vat Rate unknown > 180 days high. DD Med unless final a/c. <180 days if >£1k. High.
  - Domestic Property - > 180 days high. <180days and <£100. Low.
  - Redundant zero Vat – Med.
- Mitigation accounts set as HIGH.
- RPA accounts set as HIGH.

Reduction in Provision

NIW provides against aged debt through the bad debt provision, applying a methodology based on age profile and industry. It is recognised that a proportion of the old debt will not in fact be written off as bad debt but will be eliminated via negative system adjustments and thus be a reduction in income rather than a bad debt expense.

Using the monthly analysis of system adjustments carried out, an estimate of the future system adjustments was made for measured water and measured sewerage only. This was done on the basis of the adjustments in previous months, resulting in an estimate of £1m of future system adjustments.

Bad Debt Provision Summary

The following is a summary of the bad debt provision at 31 March 2024 and 31 March 2023:

	2024	**2023**
	£m	**£m**
Measured water & sewerage	2.861	2.521
Unmeasured water & sewerage	0.158	0.122
Trade effluent	0.596	0.353
Total	**3.615**	**2.996**

Subsidy

NI Water received £371.1m subsidy in relation to household customers in 2023/24 with nothing outstanding from DfI at 31 March 2024.

NI Water received £20.750m subsidy in relation to non-household customers and at 31 March 2024 an amount of £1.850m was outstanding from DfI. The total subsidy for non-households for the year ended 31 March 2024 was £22.600. This figure varies to the Statutory Accounts as Septic Tank subsidy is not reported in AIR as it is classified as non-appointed income in the Regulatory accounts.

Lines 59 to 63 – Customer Services Operating Expenditure

Line 59 – General customer services operating expenditure

The line 59 total of £10.518m in AIR24 is a £0.54m increase (5.41%) against the costs of £9.978m in AIR23. This arises, primarily, for the following reasons:

- Employment costs (increase of £0.66m (4%)).
- Hired and contracted costs (decrease of £0.42m (9%)).
- Other costs (increase of £0.19m (15%)).

Line 60 – Outstanding revenue collection operating expenditure (households)

As NI Water has no actual revenue from households, there is no revenue outstanding from households and therefore no operating expenditure for outstanding revenue collection.

Line 60a – Outstanding revenue collection operating expenditure (non-households)

The calculation of this figure was based on the split of the Gross Service Charge from Echo (Northern Ireland) Ltd. In addition, an estimate of some internal NIW collection costs was included.

Line 61 – Donations to charitable trusts assisting customers in debt (households):

There were no donations to charitable trusts assisting customers in debt in the year.

Line 62 – Operating expenditure due to vulnerable household customers

Household customers in Northern Ireland currently do not pay for water and sewerage services; therefore, NI Water issues no bills to ‘vulnerable household customers’.

Line 63 – Total customer services operating expenditure

This agrees to the total of table 21, line 13 and table 22, line 12.

NORTHERN IRELAND WATER LIMITED - ANNUAL INFORMATION RETURN

ANNUAL INFORMATION RETURN - TABLE 7 NON FINANCIAL MEASURES
WATER PROPERTIES & POPULATION (TOTAL)

	DESCRIPTION	UNITS	DP	1 REPORTING YEAR 2015-16	CG	2 REPORTING YEAR 2016-17	CG	3 REPORTING YEAR 2017-18	CG	4 REPORTING YEAR 2018-19	CG	5 REPORTING YEAR 2019-20	CG	6 REPORTING YEAR 2020-21	CG	7 REPORTING YEAR 2021-22	CG	8 REPORTING YEAR 2022-23	CG	9 REPORTING YEAR 2023-24	CG	10 REPORTING YEAR 2024-25	CG	11 REPORTING YEAR 2025-26	CG	12 REPORTING YEAR 2026-27	CG
A	PROPERTIES																										
1	Household properties connected during the year	000	3	5.461	B2	6.327	B2	7.267	B2	6.859	B2	5.776	B2	6.609	B2	6.371	B2	5.891	B2	5.107	B2						
2	Non-household properties connected during the year	000	3	0.366	B2	0.319	B2	0.349	B2	0.397	B2	0.308	B2	0.389	B2	0.362	B2	0.337	B2	0.297	B2						
B	BILLING																										
3	Households billed unmeasured water	000	3	703.772	A2	717.015	A2	729.388	A2	740.316	A2	750.207	A2	758.367	A2	766.036	A2	773.699	A2	781.962	A2						
4	Households billed measured water (external meter)	000	3	0.000	A1	0.000	A1	0.000	A1	0.000	A1	0.000	A1	0.000	A1	0.000	A1	0.000	A1	0.000	A1						
5	Households billed measured water (not external meter)	000	3	0.000	A1	0.000	A1	0.000	A1	0.000	A1	0.000	A1	0.000	A1	0.000	A1	0.000	A1	0.000	A1						
6	Households billed water	000	3	703.772	A2	717.015	A2	729.388	A2	740.316	A2	750.207	A2	758.367	A2	766.036	A2	773.699	A2	781.962	A2						
7	Household properties (water supply area)	000	3	743.090	A2	755.769	A2	767.888	A2	778.923	A2	788.789	A2	797.015	A2	804.838	A2	812.665	A2	820.748	A2						
8	Non-households billed unmeasured water	000	3	8.861	A2	8.602	A2	8.623	A2	8.613	A2	8.731	A2	8.719	A2	9.103	A2	9.529	A2	9.387	A2						
9	Non-households billed measured water	000	3	69.813	A2	70.150	A2	70.417	A2	70.771	A2	71.145	A2	71.741	A2	72.381	A2	72.779	A2	73.216	A2						
10	Non-households billed water	000	3	78.674	A2	78.751	A2	79.040	A2	79.384	A2	79.876	A2	80.460	A2	81.484	A2	82.308	A2	82.602	A2						
11	Non-household properties (water supply area)	000	3	90.796	A2	90.286	A2	89.806	A2	89.725	A2	90.077	A2	91.152	A2	92.963	A2	93.731	A2	93.896	A2						
12	Void properties	000	3	51.439	A2	50.288	A2	49.266	A2	48.949	A2	48.783	A2	49.340	A2	50.283	A2	50.243	A2	50.081	A2						
C	POPULATION																										
13	Population - households billed unmeasured water	000	2	1,747.72	B2	1,759.07	B2	1,766.56	B2	1,771.85	B2	1,784.60	B2	1,793.59	B2	1,798.51	B2	1,809.23	B2	1,816.18	B2						
14	Population - households billed measured water	000	2	0.00	A1	0.00	A1	0.00	A1	0.00	A1	0.00	A1	0.00	A1	0.00	A1	0.00	A1	0.00	B2						
15	Population - non-households billed unmeasured water	000	2	4.47	B3	4.40	B3	4.44	B3	4.19	B3	4.25	B3	4.24	B3	4.39	B3	4.56	B3	4.50	B2						
16	Population - non-households billed measured water	000	2	98.08	B3	98.11	B3	98.17	B3	97.10	B3	97.45	B3	98.04	B3	98.38	B3	98.30	B3	98.44	B2						
17	Population - total	000	2	1,850.27	B2	1,861.58	B2	1,869.17	B2	1,873.14	B2	1,886.30	B2	1,895.87	B2	1,901.28	B2	1,912.09	B2	1,919.12	B2						

Table 7 – Water Properties and Population

Introduction

Table 7 focuses on the number of properties and population connected to the public water supply system. It extends to 17 lines, set out in three blocks:

- Block A Properties (Lines 1 & 2). Reports properties connected during the year.
- Block B Billing (Lines 3-12). Includes a breakdown of all measured and unmeasured household and non-household properties billed by the company. The property numbers should be the average for the reporting year.
- Block C Population (Lines 13-17). This records the population within each of the measured and unmeasured household and non-household categories. The population numbers should be the average for the reporting year.

In keeping with the Utility Regulator guidance, lines 6, 10 and 17 are calculated lines, being the sum of their equivalent lines within the table. The C&OD Services - MI & Data Team complete Blocks A & B, whilst Leakage DMU complete Block C.

The information in this table is used in a number of core corporate calculations such as the water balance calculation and in tariff, charging analysis and determination (water delivered unit cost).

Data Sources, Data Validation and Data Quality

NI Water's data on property counts and classifications is reported monthly from RapidXtra within the Rapid Property Summary (RPS). The data is extracted from the Diamond Warehouse via Microsoft SQL Server to produce the RPS report.

Our AIR24 methodology has remained consistent with previous years – using the automated Property Model tool to populate Table 7 figures (this was first introduced in AIR12 – the RPS as the input).

The RPS provides us with a snapshot at the end of each month in terms of net movement; however it alone does not support in the explanation of gross movements within the data. The plan is to further enhance the Power BI property models and incorporate these models across the business during 2024/25.
Customer/Property information is updated through:

- BAU ('business as usual') customer contacts, such as new connection requests, customer move in/move outs, or
- through Data Quality initiatives/Projects, and/or
- Metering work streams e.g. UNHH (Selectives), Optants, and Proactive Meter Exchange etc.

Under the Water & Sewerage Services (2006) Order, NI Water were required to install meters on all new household connections from April 2007. This practice has stopped as directed by a change in legislation, which took effect in July 2016. The legislation was amended by Regulations, which in effect relieved NI Water of the obligation to install meters at newly connected domestic properties. As domestic customers are not charged on a measured basis, the property is reported as unmeasured. Some domestic properties were initially reported as measured in AIR10 but this was rectified as per the erratum to AIR10. Depending on the basis for charging when domestic billing is introduced, these customers can be activated as measured household if required.

As per Utility Regulator guidelines, farms were reclassified as billed non-households for AIR09. This classification remains for AIR24 and farms are included in the billed non-households. In AIR08, farms were classified and reported as 'billed' households; on the principle of their status and allocation of 'domestic allowance'.

Data on population continues to be obtained from Northern Ireland Statistics and Research Agency (NISRA), adjusted for the winter months based on information published by the Department for Economy (DFE) and the Central Statistics Office (CSO), Ireland.

The difference between the AIR23 and the AIR24 properties can be explained as follows:

1. New Connections during the 2023/24 reporting year. The figures are based on data supplied by our Customer Connections Team and represent completed connections during the reporting year. The projections for New Connections remain in line with the agreed PC21 forecasts, however, if we notice an upturn or downturn, we will review and amend (during the compilation of the Principle Statement)
2. Added as a result of a customer contact. i.e. septic tank empty request, no water complaint, blocked sewer, updating of standing data e.g. removal of services etc. Within this category there are 2 scenarios:
   (a) The adding of properties NI Water allegedly did not know about
   (b) The adding of duplicates as the customer's address could not be found on Rapid. Rapid may hold the site number but when the customer contacts NI Water, they quote the verified postal address, which is different, therefore creating a duplicate. The street name may also have changed from the time of New Connection to that of customer contact (street names can change in the early stages of site development).
3. Removal/reclassification of properties as a result of data quality initiatives/projects
   (a) Duplicate properties
   (b) Reclassification of properties that were recorded in error
4. Change in occupancy status – movement from void/vacant to occupied and vice-versa.

   For NI Water, accurate property data is fundamental for many systems and processes, including customer service, metering, billing, consumption, leakage and Major Incident Planning & Response. The Rapid Customer Contact System contains the master property data for NI Water.

   As Data Owner for Property Standing Data, The Head of C&OD Services is responsible for the property standing data held by NI Water; this is monitored and managed through the Corporate Property Register (CPR) Project. The C&OD Business Services MI & Data Team chair this group.

   The role of the CPR project is to agree a single consistent source of property data and to ensure that there is appropriate governance, controls and reporting for changes made to core data on the system. As Property Data Owners, we need to ensure the processes around creation, maintenance and demolition of properties are governed and appropriate control points and associated reporting are in place. Control is key for us; as such we have identified the systems, processes and people using property information across the business, alongside confirming data accuracy and endeavouring to reduce the opportunities for erroneous data entry and creation (such as the inability to recreate demolished properties or duplicate properties).

   The issues under consideration were identified as of corporate relevance, therefore, to ensure appropriate direction and governance the CPR was formalised. Key objectives include:

1. To agree a single consistent source of property data.
2. To ensure the source property data represents accurate, up-to-date information appropriate for use by the business.
   a. To understand and agree data primacy in respect of data updates from NI Water and external (Land & Property Services - LPS) sources
   b. To ensure the processes around creation (i.e. New Connections), maintenance and demolition of properties are governed and appropriate control points and associated reporting are in place. i.e. through data validation
   c. To co-ordinate property reconciliations between NI Water & external sources i.e. Data Sharing Agreements between NI Water & LPS, NI Water & Belfast City Council (BCC) etc and understand the reasons and validity of any differences
   d. To understand and ensure the adequacy of long term procedures for database maintenance, including the updating of data standards and associated CDE M&M Plans
3. To ensure the reporting requirements for the business are met relating to data held on Rapid, particularly, but not exclusively, in respect of tariffs, leakage, Annual Information Returns (AIR) & Principle Statement (PS) returns.
4. Challenge the data in the areas of
   a. Data categorisation & structure
   b. Data robustness – i.e. where is our data good and where is there opportunity for improvement? Identify projects that could aid improvement
   c. Data alignment – both internally and externally. Internally between systems such as Rapid, Ellipse, GIS, Diamond, Netbase, IMS etc. Externally through data reconciliations, such as LPS above.
5. To agree measures to improve the quality and integrity of the data, particularly the key CDEs as monitored by IMU
6. To agree the content and frequency of reports required by NI Water.
7. To agree the quality checking criteria for the above data and reporting and develop a Quality Plan including the determination of responsibilities and audit trails.
8. To produce & circulate an ‘operate and maintain’ programme for property data to the business.

   The focus for the CPR project remains the same, including analysis and action on:

   - Creation of an agreed single consistent source of property information, running alongside the CBC3 timelines
   - Volume of properties coming onto the Rapid billing system on a monthly basis
     - new connections
     - customer contact
     - project work
   - Volume of properties coming off the Rapid billing system (demolished)
     - sample check to ensure reason for demolition has been noted and on system audit trail recorded
   - Volume of properties amended on the Rapid billing system
     - In particular, address fields -> building number, street name, town and postcode
     - sampling to identify if the data changes are data improvement or data regression
     - if data regression, further analysis into the process is undertaken
   - Review of access privileges
     - Rapid audit
     - Through monthly audit samples
     - Internal CRs require sign off from CPR team as BAU
     - Working with Echo to review access privileges on an ongoing basis

- Interruptions to supply notices – returned mail
  - This returned mail has been previously brought to the attention of LPS and include properties that LPS have classified as live properties despite being returned as 'no such address' etc
  - The 2 way communication with LPS will help underpin our governance work and provide direction to the business on practices

Summary

As Table 7 is based on averages, please find summary table below for 'End March 23' and 'End March 24'. The '1st Dec 2023' are actuals used in the Principal Statement and Tariff Setting process.

Property Numbers	March 2023	1st Dec 2023	March 2024	Expected Movement
Unmeasured Water Household	777,704	783,669	786,219	Increase
Unmeasured Water Non-Household	9,452	9,246	9,321	Decrease
Measured Water Non-Household	72,982	73,303	73,449	Increase
Voids	49,960	50,177	50,201	General increasing trend
Total	**910,098**	**916,395**	**919,190**	**Increase**

No Water/Well Water

No Water/Well Water and demolished properties are not included in the Table 7 property count; however their exclusion does not impact on the number of reported 'supplied' properties.

Not all properties are connected to the public water supply system, but some will have a septic tank and will look to NI Water to avail of the free annual septic tank desludging service.

During 22/24 the household no water/well water category increased by 205 and the non-household have decreased by 343. Throughout 23/24, the C&OD Business Services MI & Data Team will continue to sample check the No Water/Well Water category to ensure these properties are truly not connected for water.

Site Metered Properties

As part of ongoing data checks, NI Water has been confirming the number of site-metered properties, which are multiple properties being charged through a single meter, such as business parks and industrial estates.

To ensure that these properties are not double counted, they are not included in Table 7 non-domestic property counts (although NI Water retain this information for customer record and charging purposes).

There are 4469 domestic properties (an increase of 141 during 23/24) classified as site meters and there will be further investigation and analysis to be completed during 2024/24 to ensure these are classified correctly.

Overall, the number of non-domestic site meters has increased by circa 96 during 202324. This is as a result of categorisation movements in year such as measured water to site meter and unmeasured water to site meter.

Unmeasured Not Charged Properties

From the RPS, there are deemed to be 658 (gross) non-domestic 'unmeasured – not charged' properties which (based on sample taken) are mostly NI Water properties. The C&OD Business Services MI & Data Team are currently investigating any 'unmeasured – not charged' properties outside of NI Water ownership to ensure they are classified correctly.

Unmeasured Household Property Movement

The table below provides a reconciliation of the reporting year property movements and resulting property numbers. It sets out how the properties have changed over the reporting year, due mainly to new connections, alongside some movement in the occupancy status. Note: these reported figures include domestic properties that are metered but as NI Water does not bill households for water, they are reported as unmeasured.

Property Numbers	March 2023	1st Dec 2023	March 2024
Unmeasured Water Gross Household (L7 year-end sub calc)	816564	822917	824932
Unmeasured Water Occupied Household (L3 year-end sub calc)	777542	784163	786219
Unmeasured Water Voids Household	38860	38754	38713

Household Voids	Voids	Difference (in-year)
March 2024	38860	(-) 147
March 2023	38860	(+) 81
March 2022	38779	

Measured Household Property Movement

Due to the deferral of domestic charging, NI Water does not bill households for unmeasured or measured water, therefore we don't report figures for measured household property movements (they are included in the unmeasured line as they are not billed)

Unmeasured Non-Household Property Movement

Property Numbers	March 2023	1st Dec 2023	March 2024
Unmeasured Water Gross Non-Household	15719	15541	15524
Unmeasured Water Occupied Non-Household (L8 year-end sub calc)	9452	9269	9321
Unmeasured Water Voids Non-Household	6267	6272	6203

Measured Non-Household Property Movement

Property Numbers	March 2023	1st Dec 2023	March 2024
Measured Water Gross Non-Household	77815	78454	78734
Measured Water Occupied Non-Household (L9 year-end sub calc)	72982	73303	73449

Measured Water Voids Non-Household	4833	5151	5285

Non-Household Voids

Non-Household Voids	Voids	Difference (in-year)
March 2024	11488	(+) 388
March 2023	11100	-(646)
March 2022	11746	

Confidence Grades

We have kept the confidence grades consistent with those of AIR23. During the reviews mentioned in the company commentary above, we will retain evidence to support any change in confidence grades.

Whilst the quality of data will improve, the method of extraction and reporting will remain consistent. The automated tool (developed during AIR12) to populate the base property tables has remained in place for AIR24.

Annex A details the Line Methodology followed for the figures within Table 7 Lines 1-12.

A) Properties

Line 1: Household Properties Connected during the Year

This line represents the number of new household (domestic) properties added within the area of supply during the reporting year (previously not connected for water supply).

The figures are based on the New Connections reported by the Customer Connection Team (CCT), as per embedded document. It is NIW policy to install meters on all Non-Domestic New Connections.

AIR24 NC_.xlsx

Therefore, the number of new household connections for the year is 5107.

Household properties connected during the year	**5107**

Line 2: Non-Household Properties Connected during the Year

This line represents the number of new non-household (non-domestic) properties added within the area of supply during the reporting year (previously not connected for water supply).

The figures are based on the New Connections reported by the Customer Connection Team (CCT), as per embedded document. It is NIW policy to install meters on all Non-Domestic New Connections.

Therefore, the number of new non-household connections for the year is 297.

Non-Household properties connected during the year	**297**

B) Billing

Line 3: Households Billed Unmeasured water

Due to the deferral of domestic charging, NI Water does not bill households for unmeasured or measured water.

Void properties have been excluded, so occupied numbers only used.

This is calculated from the monthly Rapid Property Summary for AIR24 (dated 31st March 2024) as attached below.

RPS March 24.xlsx

Households Billed Unmeasured Water	End March 2023	End March 2024
Household – Unmeasured	729957	738095
Household - Measured – Not Charged (test meters)	8	4
Household - Measured	44766	45055
Household - Site Meters	2957	3049
Unmeasured - Not Charged	16	16
Total	777704	786219
Average (Apr23/Apr24)	**781962**	

The figure represents the number of unmeasured domestic properties that would have been billed had charging been introduced.

Line 4: Households Billed Measured Water (external meter)

Due to the deferral of domestic charging, NI Water does not bill households for measured water. Therefore, any domestic properties that would have been included in line 4 are now included in line 3, as per AIR10 erratum, Reporters Recommendations and Undertaking A Agreement.

Households Billed Measured Water (external meter)	End March 2023	End March 2024
	0	0
Average (Apr23/Apr24)	**0**	

Line 5: Households Billed Measured Water (not external meter)

Due to the deferral of domestic charging, NI Water does not bill households for measured water.

Average number of billed metered households (not externally metered).

An internal meter is one located inside the customer's property or attached to the property at above ground level in a box or cabinet. All other meters should be classed as external with void properties excluded.

Households Billed Measured Water (internal meter)	End March 2023	End March 2024
	0	0
Average (Apr23/Apr24)	**0**	

Line 6: Households Billed Water

Average number of households billed for water within the water supply area.

Calculated by adding AIR23 Table 7 lines 3, 4 and 5

Households Billed Water	Average 23/24
Households billed unmeasured water (Line 3)	781962
Households billed measured water (external meter) (Line 4)	0
Households billed measured water (not external meter) (Line 5)	0
Total	**781962**

The figure represents the number of domestic properties that would have been billed had charging been introduced.

Line 7: Household Properties (water supply area)

This is the number of connected household properties within the water supply area, including void properties.

This is calculated from the monthly Rapid Property Summary for AIR24 (dated 31st March 2024)

Household Properties (Water Supply Area)	End March 2023	End March 2024
Unmeasured	762648	770591
Measured – Not Charged (Test)	8	5
Measured	49563	49850
Site Meters	4328	4469
Unmeasured - Not Charged	17	17
Total	816564	824932
Average (Apr23/Apr24)	**820748**	

Line 8: Non-Household Billed Unmeasured Water

This is the average number of non-households billed for unmeasured water within the supply area, calculated from the Rapid Property Summary.

Figures are based on the average of End March 2023 and End March 2024 non-domestic unmeasured properties.

Non-Households Billed Unmeasured Water	End March 2023	End March 2024
	9452	9321
Average (Apr23/Apr24)	**9387**	

Line 9: Non-Household Billed Measured Water

This figure represents the average number of non-households billed for measured water within the supply area, calculated from the Rapid Property Summary.

Figures are based on the average of End March 2023 and End March 2024 non-domestic measured properties.

Non-Households Billed Measured Water	End March 2023	End March 2024
	72982	73449
Average (Apr22/Apr23)	**73216**	

Site metered properties are a subset of the overall non-domestic billed measured water customer base, therefore not included in the figure above to avoid duplication. E.g. Where multiple businesses/properties are served through one site meter, only the landlord or business park management is considered as the customer.

Line 10: Non-Household Billed Water

This figure represents the average number of non-households billed for water within the supply area.

This is calculated from the Rapid Property Summary for AIR 24, excluding voids.

The sum of AIR24 Table 7 lines 8 & 9

Non-Households Billed Water	Average 23/24
Non-Households Billed Unmeasured Water (Line 8)	9387
Non-Households Billed Measured Water (Line 9)	73216
Total	**82602**

Line 11: Non-Household Properties (water supply area)

This is the average number of connected non-household properties within the water supply area, including void properties, calculated from the Rapid Property Summary.

Non-Household Properties (Water Supply Area)	End March 2023	End March 2024
Unmeasured	15719	15524
Measured	77815	78734
Total	93534	94258
Average (Apr22/Apr23)	**93896**	

Line 12: Void Properties

This is the average number of properties, within the supply area, which are connected to the distribution system but do not receive a charge, as there are no occupants – (voids). This is calculated from the Rapid Property Summary.

Void Properties (Water Supply Area)	End March 2023	End March 2024
Non-Household – Unmeasured	6267	6203
Non-Household – Measured	4833	5285
Household – Unmeasured	32691	32496
Household - Measured	4797	4795
Household – Measured - Not Charged (Test)	0	1
Household – Site Meters	1371	1420
Household - Not Charged	1	1
Total	49960	50201
Average	**50081**	

NORTHERN IRELAND WATER LIMITED - ANNUAL INFORMATION RETURN

ANNUAL INFORMATION RETURN - TABLE 8 NON FINANCIAL MEASURES
WATER METERING (TOTAL)

	DESCRIPTION	UNITS	DP	1 REPORTING YEAR 2015-16	CG	2 REPORTING YEAR 2016-17	CG	3 REPORTING YEAR 2017-18	CG	4 REPORTING YEAR 2018-19	CG	5 REPORTING YEAR 2019-20	CG	6 REPORTING YEAR 2020-21	CG	7 REPORTING YEAR 2021-22	CG	8 REPORTING YEAR 2022-23	CG	9 REPORTING YEAR 2023-24	CG	10 REPORTING YEAR 2024-25	CG	11 REPORTING YEAR 2025-26	CG	12 REPORTING YEAR 2026-27	CG
A	**HOUSEHOLD METER INSTALLATION**																										
1	Selective meters - installed	nr	0	5,218	B3	1,395	B3	0	B3	0	A1	0	B3	0	B3	0	A1	0	A1	0	A1						
2	Meter optants installed	nr	0	0	A1	0	A1	0	A1	0	A1	0	A1	0	A1	0	A1	0	A1	0	A1						
3	Meters installed - external meter with existing or new boundary box	nr	0	5,218	B3	1,395	B3	0	B3	0	A1	0	B3	0	B3	0	A1	0	A1	0	A1						
4	Meters installed - external meter without boundary box	nr	0	0	A1	0	A1	0	A1	0	A1	0	A1	0	A1	0	A1	0	A1	0	A1						
5	Meters installed - internal meter	nr	0	0	A1	0	A1	0	A1	0	A1	0	A1	0	A1	0	A1	0	A1	0	A1						
6	No. of meter installation requests outstanding for greater than three months	nr	0	0	A1	0	A1	0	A1	0	A1	0	A1	0	A1	0	A1	0	A1	0	A1						
B	**NON HOUSEHOLD METER INSTALLATION**																										
7	Selective meters - installed	nr	0	473	B2	449	B2	601	B2	699	B2	708	B2	721	B2	500	B2	467	B2	497	B2						
7a	Number of non household meters renewed	nr	0	9,830	B2	9,671	B2	3,156	B2	3,150	B2	3,344	B2	6,927	B2	3,712	B2	4,871	B2	11,019	B2						
8	Meter optants installed	nr	0	20	B2	57	B2	61	B2	52	B2	71	B2	46	B2	63	B2	65	B2	45	B2						
9	Meters installed - external meter with existing or new boundary box	nr	0	469	B2	452	B2	614	B2	709	B2	706	B2	733	B2	523	B2	473	B2	480	B2						
10	Meters installed - external meter without boundary box	nr	0	22	B3	38	B3	37	B3	35	B3	61	B2	30	B3	36	B3	43	B3	50	B3						
11	Meters installed - internal meter	nr	0	2	B2	16	B2	11	B2	7	B2	12	B2	4	B2	4	B2	16	B2	12	B2						
12	No. of meter installation requests outstanding for greater than three months	nr	0	2	B2	6	B2	4	B2	0	B2	4	B2	5	B2	1	B2	4	B2	1	B2						
C	**WATER DEMAND AT RECENTLY METERED NON-HOUSEDHOLD PROPERTIES**																										
13	Average water billed - selective metered properties	l/prop/d	2	384.09	B3	532.55	B3	580.74	B3	628.33	B3	440.49	B3	221.39	B3	518.59	B3	584.98	B3	625.71	B3						

Table 8 – Non Financial Measures – Water Metering

Regulations made in 2016 removed the Art 81 obligation on NI Water to meter newly connected domestic premises.

Line - 1 Selective meter's installed

NI Water no longer installs meters at newly connected domestic premises for reasons stated above, no domestic premises had meters fitted in the reporting year.

Line 3 - Meters Installed – external meter with existing boundary box

All newly connected domestic properties are provided with a boundary box at or as close to the boundary as possible when connected to the water main. As such all new domestic properties have the capability to have a water meter fitted.

NI Water no longer installs meters at newly connected domestic premises for reasons stated above, no domestic premises had meters fitted in the reporting year.

Lines 7-12 - Non household meter installation

NIW installs water meters at newly connected non-domestic premises as per the obligation associated with Article 81 of The Water and Sewerage Services (Northern Ireland) Order 2006.

The company in an attempt to increase its meter penetration where permissible is continuing to install meters across its non-domestic revenue generating customer base, providing it is technically possible to do so.

Line 7 - Selective meters installed

Meters installed at the behest of NI Water include those properties selected because they are new non-domestic connections or fall into the selective category. The total selective meter installs for the year was 497. New connections accounted for 45 large and 261 small diameter installations, the other 191 installations are classed as selectives performed by the metering contractor and NIW staff.

Line 7a - Number of non-household meters renewed

NIW has a reactive meter maintenance section within the MCT and reactively replaces meters and street furniture associated with meters. The maintenance activities are driven by reports generated by the meter readers, meter query technicians and project teams. All Meter Maintenance Requests (MMR's) are opened as cases on the corporate case management system (Savvion) and issued to the contractor via a daily batch. The returned data is processed automatically via uploads to the Savvion system and any rejects go to various queues within the system monitored and progressed by NIW teams. The meter maintenance process is an end-to-end process managed by the metering section using a corporate process flow system known as Savvion linked to the corporate billing system. During the reporting year NIW meter maintenance section replaced 1678 meters through the RMM process.

NIW also had a Proactive Meter Exchange (PME) programme which was designed to target a number of small diameter meters exchanges each year. The meters selected for exchange are those deemed to be 17 years of age or more and where possible those meters with a whole life consumption reading >8000m3. The methodology has changed in agreement with the UR, by targeting meters due to hit their PME criteria within the PC21 period. This change

in approach has increased the efficiency both at time of installation and operationally, as the benefits of AMR meters can only be achieved when a large % of the walks are AMR enabled.

NIW exchanged 2996 meters under the PME programme, up from 2298 PME replacements in 22/23.

An additional 354 meters were replaced through an Engineering and Procurement contract for water mains rehabilitation.

Other teams within NI Water replaced a total of 5991 meters during the course of their activities and investigations.

The total number of meters replaced by NIW in the reporting year combining all of the above work streams was 11,019 meters, this is more than AIR 23 (4871 meters renewed). The majority of these additional meter replacements where due to proactive work carried out by NIW staff. This targeted approach aimed to increase AMR penetration and to target entire areas to enable read efficiencies to be realised.

Line 8 - Meter optants installed

NIW will install meters at existing non-domestic premises when a customer requests a meter and providing it is technically possible to do so. An optants process is in operation and has been communicated across the company to include the Customer Services Centre (CSC). If an unmeasured customer contacts the company and requests the option to have their premises billed as a measured (metered) property and it is determined following a survey to be possible, a meter will be installed. It is the company preference to install meters externally in boundary boxes or in chambers however if this is not technically possible an internal meter may be considered. The total number of non-domestic meter optants for the reporting year was 45.

Line 9 - Meters installed – external meter with existing boundary box

NI Water continues to actively install external meters across a number of metering work streams which includes optants and other selective non-domestic customer properties. While the majority of these are fitted in existing boundary boxes which essentially entails screwing in a meter, other installations can only be completed with the replacement of the boundary box. This involves replacing legacy stop tap boxes often referred to as ‘Toby’ boxes and replacing them with modern proprietary boundary box units. The total number of non-domestic meters installed within this category was 480.

Line 10 - Meters installed – external meter without boundary box

NI Water Developer Services Team (DS) is responsible for coordinating new non-domestic water connections and meter installations >32mm diameter. These large connections by the nature of their size require a chamber constructed to facilitate the meter and valves installations, these totalled 45 in the reporting year, with an additional 5 LD meters being installed proactively by the company not as a result of a new connection, giving a total of 50 installed in the reporting year.

Line 11- Meters installed – internal meters

NI Water’s preference is to install meters externally when possible. Internal installations are only considered and undertaken when the possibility of an external installation has been discounted because of engineering difficulties or an inability to capture the total volume of water entering a property. Internal meters have been installed across the selective and

optant metering programmes. The total number of internal non-domestic meter installations completed this reporting year was 12.

Line 12 - No. of meter installation requests outstanding for greater than three months

The number of non-household optant meter installation requests that took longer than 3 months to complete were 1.

Line 13 – Average Water Billed - Selective Metered Properties

The meters uploaded to Rapid during the previous reporting year (2023/24) are the focus for this line, along with the consumption usage throughout the 2023/24 reporting year.

The TRIMMEAN function was applied to the consumption to ensure the result was a true average. There were some very high and very low consumption, which would have skewed the results.

The figure reported for Line 13 is 625.71 l/prop/day, an increase of 40.73 l/prop/day from AIR24. To demonstrate the range of consumption for AIR23 and AIR24, please see table below:

Consumption Band (m^3)	AIR23	AIR24
1-1000	1471	673
> 1000	154	65
Total (excl. zeros)	1625	738

The embedded document below details the meter industry codes of the meters included in this calculation. The categories where there have been an increase in the number of meters have been highlighted - This will help to explain/justify the increase in the l/prop/day volume.

AIR24 MIC.xlsx

NORTHERN IRELAND WATER LIMITED COMPANY - ANNUAL INFORMATION RETURN

ANNUAL INFORMATION RETURN - TABLE 9 NON FINANCIAL MEASURES
WATER QUALITY (TOTAL)

	DESCRIPTION	UNITS	DP	1 REPORTING YEAR 2015-16	CG	2 REPORTING YEAR 2016-17	CG	3 REPORTING YEAR 2017-18	CG	4 REPORTING YEAR 2018-19	CG	5 REPORTING YEAR 2019-20	CG	6 REPORTING YEAR 2020-21	CG	7 REPORTING YEAR 2021-22	CG	8 REPORTING YEAR 2022-23	CG	9 REPORTING YEAR 2023-24	CG	10 REPORTING YEAR 2024-25	CG	11 REPORTING YEAR 2025-26	CG	12 REPORTING YEAR 2026-27	CG
A	WATER TREATMENT AND DISTRIBUTION																										
	Lines 1 to 5 not used																										
B	DISTRIBUTION INPUT COVERED BY WORK PROGRAMMES AGREED WITH DWI																										
6	Raw water deterioration	Ml/d	3	15.364	A2	15.322	A2	44.561	A2	49.970	A2	44.225	A2	44.422	A2	44.052	A2	46.321	A2	46.623	A2						
7	Conditioning water supplies to reduce plumbosolvency	Ml/d	3	562.876	A2	571.703	A2	570.584	A2	594.486	A2	588.510	A2	593.669	A2	609.531	A2	604.285	A2	609.187	A2						
8	Reducing the risk from Cryptosporidium	Ml/d	3	0.000	A1	0.000	A1	0.000	A1	0.000	A1	0.000	A2	0.000	A1	0.000	A1	0.000	A1	0.000	A1						
9	Other	Ml/d	3	0.000	A1	0.000	A1	0.000	A1	202.164	A2	203.819	A2	0.000	A1	0.000	A1	0.000	A1	0.000	A1						

Table 9 – Water Quality

Background – Year on Year

Drinking water quality compliance in 2023 was above the target level set for all water quality monitoring measures.

The perceived quality of water supplied by NI Water to customers has risen slightly over the last number of years:

- NI Water now assesses compliance using % Overall Compliance across customer tap, WTWs, SRs and Authorised Supply Points rather than Mean Zonal Compliance. Under this means of assessment, NI Water's compliance has risen slightly from 99.91% in 2022 to 99.92% in 2023 (figure assessed by NI Water - waiting for confirmation from DWI).
- The Drinking Water OPA (based on turbidity, iron, manganese, faecal coliforms, Total Trihalomethanes (THM) and aluminium at customer tap) has reduced from 99.63% in 2022 to 99.50% in 2023. This is largely due to an increased number of THM exceedances.
- The percentage compliance measured at Water Treatment Works (WTWs) has stayed reasonably stable from 99.95% in 2022 to 99.97% in 2023.
- The percentage compliance measured at Service Reservoir (SR) has stayed reasonable stable from 99.94% in 2022 to 99.96% for 2023.

The previous method of compliance assessment (Mean Zonal Compliance) gave undue emphasis on individual exceedances in small zones. The % Overall Compliance methodology treats all exceedances with the same emphasis.

Line 6 – Raw water deterioration

The data used for the estimation of average flow at WTWs in Table 9 lines 6-9 was supplied from operations leakage metering. For this return the Distribution Input was calculated as the average daily flow from the various individual sites or amalgamation of associated readings obtained from leakage metering. In accordance with the guidance, sites that were out of service at the end of the reporting period (the calendar year) will have been excluded and wouldn't be listed here.

Over the past number of years, NI Water's WTWs have had a number of exceedances of the pesticide MCPA. A programme of enhanced monitoring for MCPA has been setup for these sites. DWI is content with the above enhanced programme and the sites have not been included in the calculations.

Authorised Departures are no longer likely to be used as regulatory instruments against NIW by DWI. Notice under Regulation 31(4)(b) and Enforcement Orders (including "Consideration of Provisional Enforcement Orders", "Provisional Enforcement Orders") are now the methodology by which NIW is regulated by DWI.

A PEO for Derg WTW was opened in 2016 due to contravention of the Regulatory Standard for the pesticide MCPA. This was closed in 2019, and replaced with a Regulation 31(4)b notice, which was reissued December 2023. This reissued Regulation 31(4)b Notice was closed by the DWI in January 2024 after the remit of this AIR return.

A CPEO for Ballinrees WTW was opened in 2017 for the pesticide MCPA. This was closed in 2019, and replaced with a Regulation 31(4)b notice which is ongoing (reissued December 2023).

Including Derg WTW and Ballinrees WTW, the volume for Raw Water deterioration is therefore 46.623 Ml/d.

Line 7 – Conditioning water supplies to reduce Plumbosolvency

NI Water, as required by the Drinking Water Regulations (Regulation 32), has put in place orthophosphoric acid dosing to control plumbosolvency in the distribution system. This control measure is agreed with the DWI and the Health Authorities. The average initial dose rate was approximately 1 mg/l following propensity testing. The level of dosing is reviewed annually against compliance with existing lead standards, with DWI being informed as to the proposed dosing rates. DWI has the opportunity to query the proposed dose rates. Following the annual review, the dose rates were adjusted as agreed.

Site Name	Average Dosed Water (Ml/d)
Altnahinch	8.543
Ballinrees	29.068
Belleek	1.572
Carmoney	18.587
Carran Hill	5.693
Castor Bay	104.107
Caugh Hill	19.492
Clay Lake	4.354
Derg	17.555
Dorisland	24.817
Drumaroad	101.373
Dungonnell	8.826
Dunore Point	115.249
Fofanny	36.333
Forked Bridge	11.639
Glenhordial	4.001
Killyhevlin	27.187
Killylane	11.482
Lough Bradan	8.548
Lough Fea	13.113
Lough Macrory	11.309
Moneymore	0.418
Moyola	15.528
Seagahan	10.393
Total:	**609.187**

Line 8 – Reducing the risk from Cryptosporidium

DWI approved Cryptosporidium risk assessments were previously carried out on all sources annually and showed effective barriers existed at all NI Water's treatment works.

The risk assessment for Cryptosporidium in the treated drinking water supply is carried out under the Drinking Water Safety Plan (DWSP) Regulation 31 Report for the treatment works and supply systems. The DWSP assesses the risk in the catchment and the treatment works pre and post control measures. The post control risk demonstrates if the treatment process has effective barriers in place to control the risk in the treated drinking water supply to low risk. The DWSPs are revised at least annually and submitted to the DWI.

Under the current guidance, which requires that this should be assessed against sites with “legally binding instruments”, NI Water has no sites which fall into this category.

The return for this line is therefore 0 Ml/d.

Line 9 – Other

No other legal instruments were put in place during 2023 (see appendix).
The return for this line is 0 Ml/d.

Confidence Grades

Confidence grades used in returns are based on OFWAT guidance documentation.

Appendix – Lines 6, 8 & 9

Site	Regulatory Enforcement	Parameter	Date Issued	Date Closed
Derg WTW	Reg. 31(4)(b) Notice 2020/001	MCPA	30.06.2020	22.01.2024
Ballinrees WTW	Reg. 31(4)(b) Notice 2023/001	MCPA	18.12.2023	Ongoing
Ballinrees WTW	Reg. 31(4)(b) Notice 2023/002	Taste & Odour	18.12.2023	Ongoing
Drumaroad WTW	Reg. 31(4)(b) Notice 2021/001	Aluminium	08.07.2021	Ongoing

NORTHERN IRELAND WATER LIMITED - ANNUAL INFORMATION RETURN

ANNUAL INFORMATION RETURN - TABLE 10 NON FINANCIAL MEASURE
WATER DELIVERED (TOTAL)

	DESCRIPTION	UNITS	DP	1 REPORTING YEAR 2015-16	CG	2 REPORTING YEAR 2016-17	CG	3 REPORTING YEAR 2017-18	CG	4 REPORTING YEAR 2018-19	CG	5 REPORTING YEAR 2019-20	CG	6 REPORTING YEAR 2020-21	CG	7 REPORTING YEAR 2021-22	CG	8 REPORTING YEAR 2022-23	CG	9 REPORTING YEAR 2023-24	CG	10 REPORTING YEAR 2024-25	CG	11 REPORTING YEAR 2025-26	CG	12 REPORTING YEAR 2026-27	CG
A	WATER DELIVERED - VOLUMES																										
1	Billed measured household	Ml/d	2	0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00							
2	Billed measured non-household	Ml/d	2	118.03		120.58		122.02		128.40		123.89		115.19		126.19		131.32		132.15							
3	Billed measured	Ml/d	2	118.03		120.58		122.02		128.40		123.89		115.19		126.19		131.32		132.15							
4	Billed unmeasured household	Ml/d	2	294.86		302.76		304.82		315.93		317.76		342.21		343.11		324.48		329.04							
5	Billed unmeasured non-household	Ml/d	2	5.28		5.17		5.14		5.49		5.53		4.52		5.14		5.73		5.57							
6	Billed unmeasured	Ml/d	2	300.14		307.93		309.96		321.42		323.29		346.73		348.25		330.21		334.61							
B	WATER DELIVERED - COMPONENTS																										
7	Estimated water delivered per unmeasured non-household	l/prop/d	2	595.87	B4	601.02	B4	596.08	B4	637.41	B4	633.38	B4	518.41	B4	564.65	B4	601.32	B4	600.80	B4						
7a	Estimated water delivered per unmeasured household	l/prop/d	2	418.97	B3	422.25	B3	417.91	B3	426.75	B4	423.56	B3	451.25	B3	447.90	B3	419.39	B3	416.52	B3						
8	Per capita consumption (unmeas'd h'hold - excl s/pipe leakage)	l/h/d	2	148.42	B3	151.89	B3	152.35	B3	158.13	B4	158.00	B3	170.83	B3	171.67	B3	160.17	B3	162.74	B3						
9	Per capita consumption (meas'd h'hold - excl s/pipe leakage)	l/h/d	2	0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00							
10	Underground supply pipe leakage (unmeas'd households)	l/prop/d	2	50.38		49.62		48.92		48.29		47.71		47.21		44.85		44.85		42.40							
11	Underground supply pipe leakage (ext. metered households)	l/prop/d	2	25.19		24.81		24.46		24.15		23.86		23.61		22.43		22.43		21.20							
12	Underground supply pipe leakage (other metered h'holds)	l/prop/d	2	50.38		49.62		48.92		48.29		47.71		47.21		44.85		44.85		42.40							
13	Underground supply pipe leakage (void properties)	l/prop/d	2	50.38		49.62		48.92		48.29		47.71		47.21		44.85		44.85		42.40							
14	Meter under-registration (measured households)	Ml/d	2	0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00							
15	Meter under-registration (measured non-households)	Ml/d	2	8.52		8.22		7.81		7.63		6.87		6.18		6.74		7.05		7.03							
16	Distribution system operational use	Ml/d	2	3.05		2.93		3.51		3.20		3.05		3.14		3.27		2.84		2.59							
17	Water taken legally unbilled	Ml/d	2	16.80		16.40		17.57		16.76		15.09		12.24		10.47		17.31		15.69							
18	Water taken illegally unbilled	Ml/d	2	0.38		0.68		0.66		0.69		0.62		0.62		0.63		0.62		0.62							
19	Water taken unbilled	Ml/d	2	17.18		17.08		18.23		17.45		15.71		12.86		11.10		17.93		16.31							
20	Water delivered (potable)	Ml/d	2	435.35		445.59		450.21		467.27		462.89		474.78		485.54		479.46		483.07							
21	Water delivered (non-potable)	Ml/d	2	0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00							
22	Water delivered (non-standard rates: potable)	Ml/d	2	0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00							
23	Water delivered (non-standard rates: non-potable)	Ml/d	2	0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00							
24	Distribution losses	Ml/d	2	122.08		123.52		122.52		120.23		120.62		117.80		117.13		123.79		118.08							
25	Total leakage	Ml/d	2	161.99	B3	163.43	B3	162.43	B3	160.14	B3	160.53	B3	157.71	B3	155.64	B3	162.30	B3	155.35	B3						
26	Distribution input	Ml/d	2	560.48	B2	572.04	B2	576.24	B2	590.70	B2	586.56	B2	595.72	B2	605.94	B2	606.09	B2	603.74	B2						
27	Bulk supply imports	Ml/d	2	0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00							
28	Bulk supply exports	Ml/d	2	0.73		0.34		0.44		0.39		0.34		0.41		0.40		0.44		0.49							
29	Water treated at own works to own customers	Ml/d	2	559.75		571.70		575.80		590.31		586.22		595.31		605.54		605.65		603.25							
30	Overall water balance	CG			A2		B2		B2		B2		B2		B2		B2		B2		B2						
C	SECURITY OF SUPPLY																										
31	Security of supply index - company's planned levels of service	nr	0	100		100		100		100		100		99		100		99		100							
32	Security of supply index - reference levels of service	nr	0													N/a		N/a		N/a							

Table 10 – Non Financial Measures - Water Delivered

Introduction

NI Water continues to follow the methodology as described in Chapter 10 of the Utility Regulator (UR) AIR24 Reporting Requirements and Definitions manual March 2024. In doing so it has adhered to the methodologies for estimating the water balance set out in the Demand Forecasting Methodology report produced by NERA on behalf of UKWIR.

NI Water uses the Sustainable Economic Level of Leakage (SELL) study as the method of deriving company leakage targets and to inform the PC21 business plan. As a result of the SELL study, utilising base year data from 2018/19, NI Water has challenged themselves with a target to reduce leakage to 150 Ml/d over the six year period of PC21 (April 2021 to March 2027). The UR final determination has agreed the 150 Ml/d target.

For AIR22, the first year of the 6-year PC21 period, the reconciled leakage target was 157.0 Ml/d. NI Water reported for AIR22 a reconciled leakage figure of 155.6 Ml/d.
For AIR23 the reconciled leakage target was 156.0 Ml/d. NI Water reported for AIR23 a reconciled leakage figure of 162.3 Ml/d.
For AIR24 the reconciled leakage target was 154.0 Ml/d. NI Water is reporting, for AIR24, a reconciled leakage figure of 155.3 Ml/d.

For AIR24, the pre-MLE bottom-up leakage figure of 151.50 Ml/d equated to a decrease of 8.1 Ml/d from AIR23.

During the PC21 period to date, societal and commercial interpretations of a post-COVID world continue to impact on NI Water's commitment to deliver its customer demand requirements. In addition, intense weather events, whether hot or cold, wet or dry, also dictate how NI Water operates during, and recovers from, these events.
The water industry is working to understand how these influences on the distribution network affect demand strategies and impact leakage.

In summary, the outputs of this water balance are that the Integrated Flow Method of leakage assessment has given a figure of 177.62 Ml/d for total leakage and the Minimum Night Flow Method has provided a figure of 151.50 Ml/d. When the resulting imbalance between the two methods of 26.12 Ml/d is compared to the Distribution Input figure of 606.54 Ml/d (pre-MLE), it provides a percentage discrepancy of 4.31%. This remains within the 5% tolerance set to enable a Maximum Likelihood Estimation method to be applied, using the squares method, and produces a reconciled leakage figure of 155.35 Ml/d. This figure is 1.35 Ml/d behind the profiled leakage target of 154.0 Ml/d for Year 3 of PC21.

This commentary will provide an analysis of Leakage performance and reporting during AIR24.

Demand Analysis

The pre-MLE distribution input for AIR24 was 606.5 Ml/d, a decrease of 1.3 Ml/d from 607.8 Ml/d reported in AIR23.

The graph in Fig.1 below illustrates the monthly distribution input for AIR24 and includes the previous 5-year distribution input back to AIR19 for comparison. The graph shows that a summer demand was observed in June 2023 and of similar magnitude to that observed in July 2021.

From September 2023 to February 2024, the DI did not achieve the previous low levels observed for these months, and may be attributed to the increased rainfall and subsequent ground saturation levels resulting in ground and pipe movements.

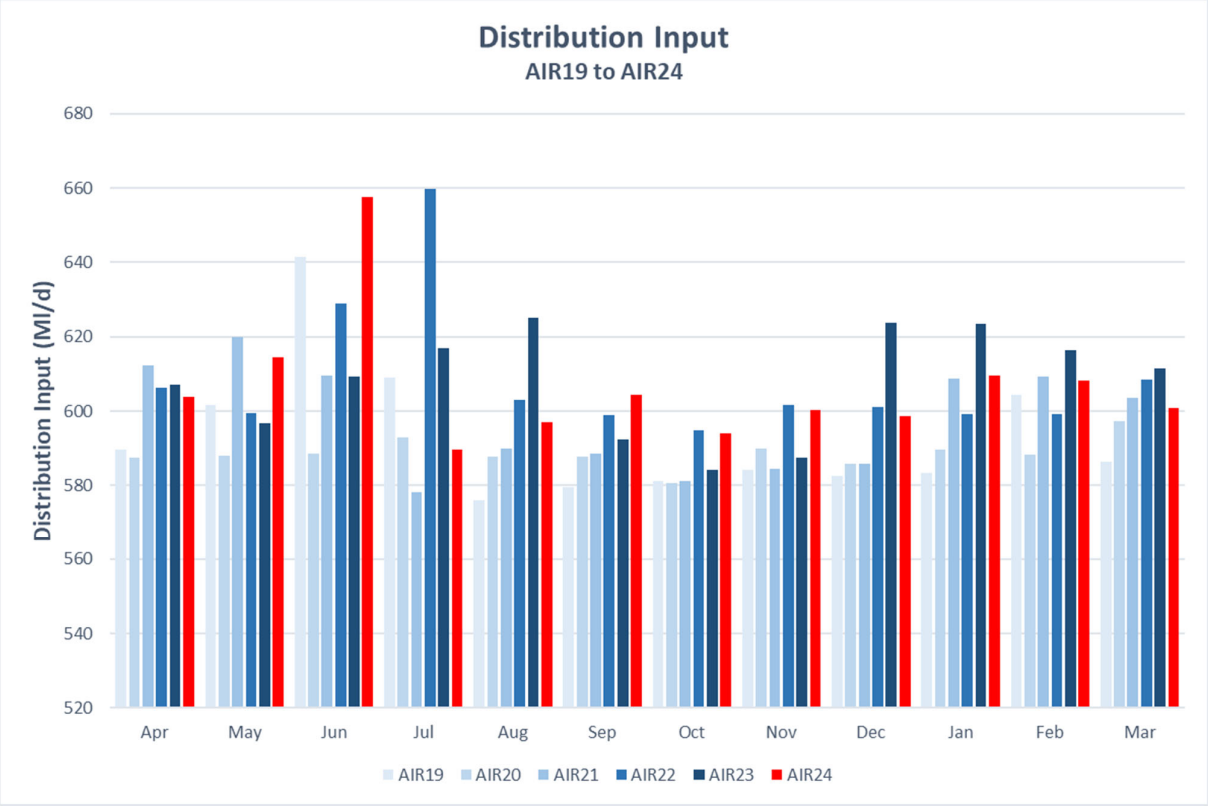


Fig. 1

As noted in AIR23, the occurrence of a freeze/thaw in December 2022, after three weeks of negative average weekly ground temperatures, resulted in increased leakage across the majority of DMAs. The leakage recovery from this event extended into early AIR24 reporting and it is likely that the impact of this event on customer supplies, in conjunction with saturated ground conditions from July 2023 onwards, resulted in the reporting of an increased number of customer-side defects. The number of reported customer-side defects was just 18 fewer than those reported during the freeze/thaw year 2010/11, Fig. 2.

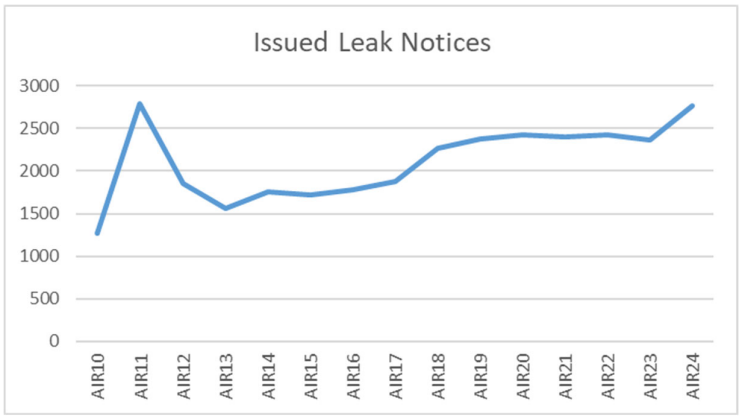


Fig. 2

As noted in previous commentaries, water companies are yet to understand the social and commercial impact that a global pandemic has brought to the water industry and future demand strategies. In addition, changes experienced in global weather patterns will also bring uncertainty within the industry.

Fig. 3 shows the periods of rapid increases/decreases in weekly average ground temperatures above and below the 90th & 10th percentile. These swings in temperatures coincide with observed increases in leakage.

Fig. 4 shows that annual recorded average temperatures were the greatest observed including those below ground temperatures at 30cm and 100cm depths. This exceeds the record temperatures observed during AIR23 by 0.5 ºC.

Fig. 5 shows AIR24 having an average recorded levels of sunshine however the average cumulative rainfall is the highest recorded and breached 1000mm for the first time and is 28% above average.

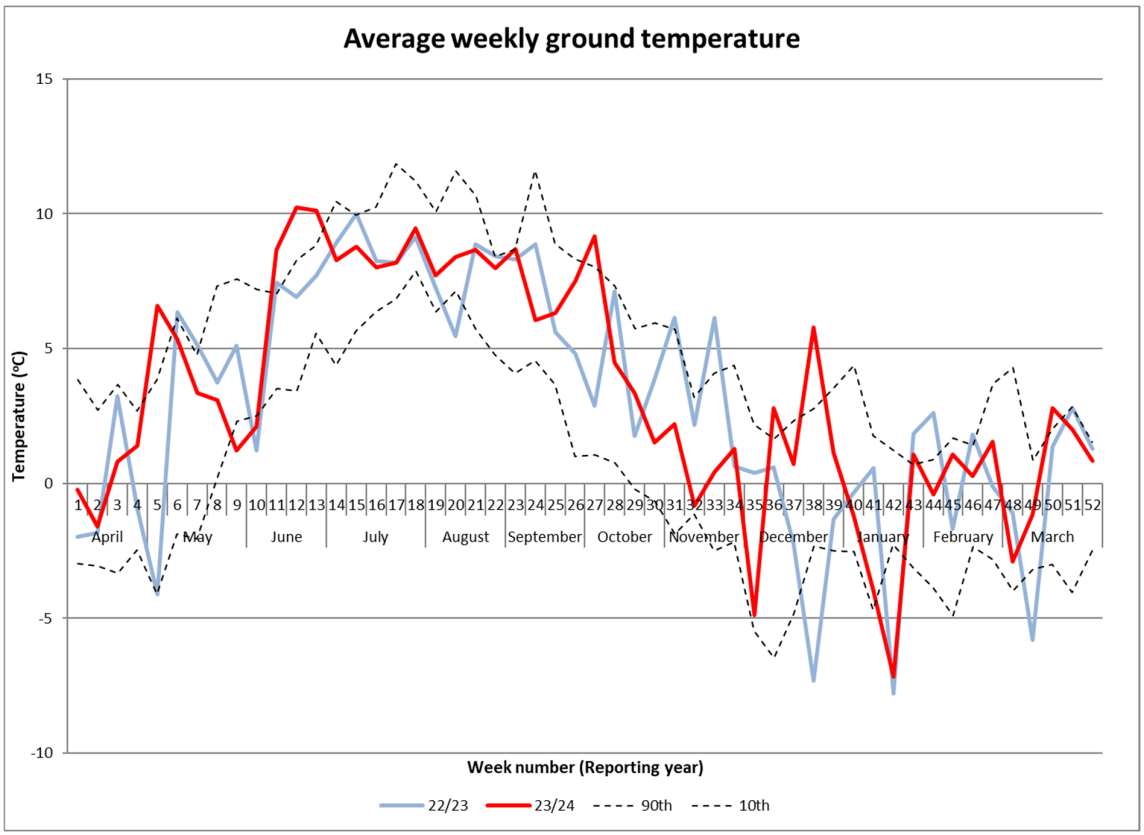
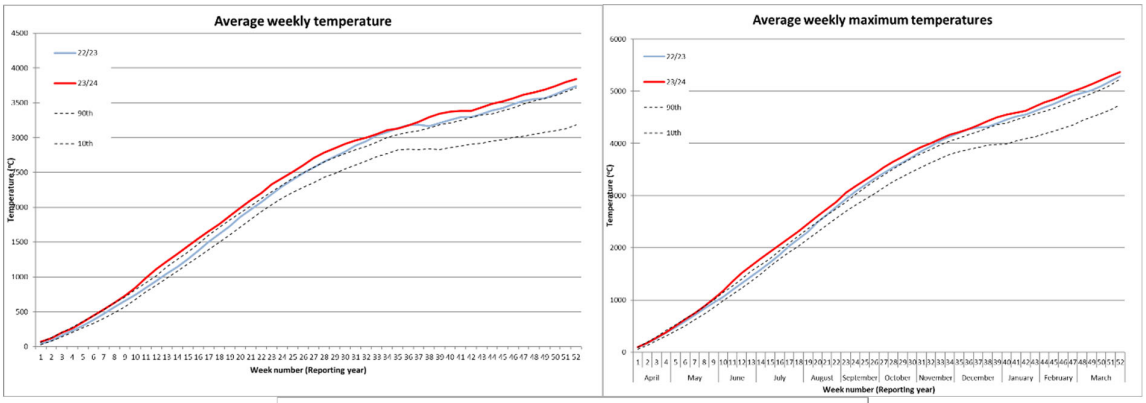
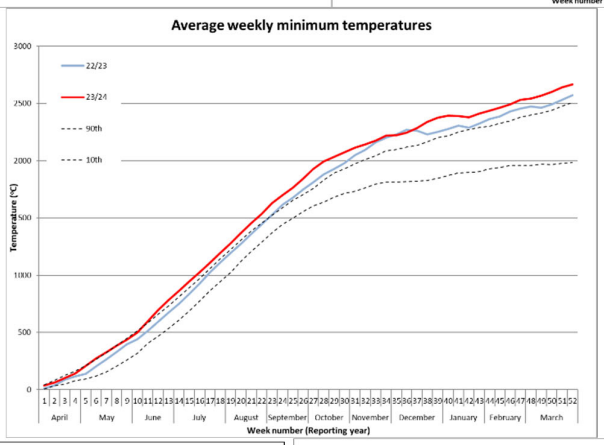
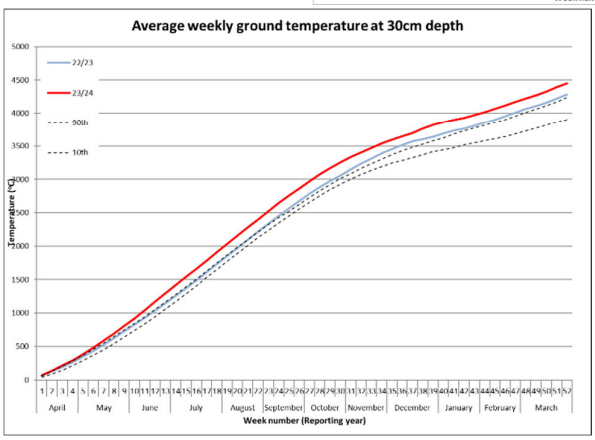


Fig. 3


Average weekly temperature
22/23
23/24
90th
10th
Temperature (°C)
Week number (Reporting year)

Average weekly maximum temperatures
22/23
23/24
90th
10th
Temperature (°C)
April
May
June
July
August
September
October
November
December
January
February
March
Week number (Reporting year)


Average weekly minimum temperatures
22/23
23/24
90th
10th
Temperature (°C)
April
May
June
July
August
September
October
November
December
January
February
March
Week number (Reporting year)


Average weekly ground temperature at 30cm depth
22/23
23/24
90th
10th
Temperature (°C)
April
May
June
July
August
September
October
November
December
January
February
March
Week number (Reporting year)

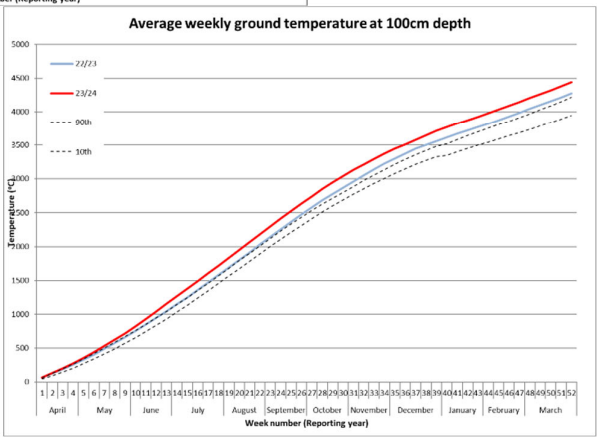

Average weekly ground temperature at 100cm depth
22/23
23/24
90th
10th
Temperature (°C)
April
May
June
July
August
September
October
November
December
January
February
March
Week number (Reporting year)

Fig. 4

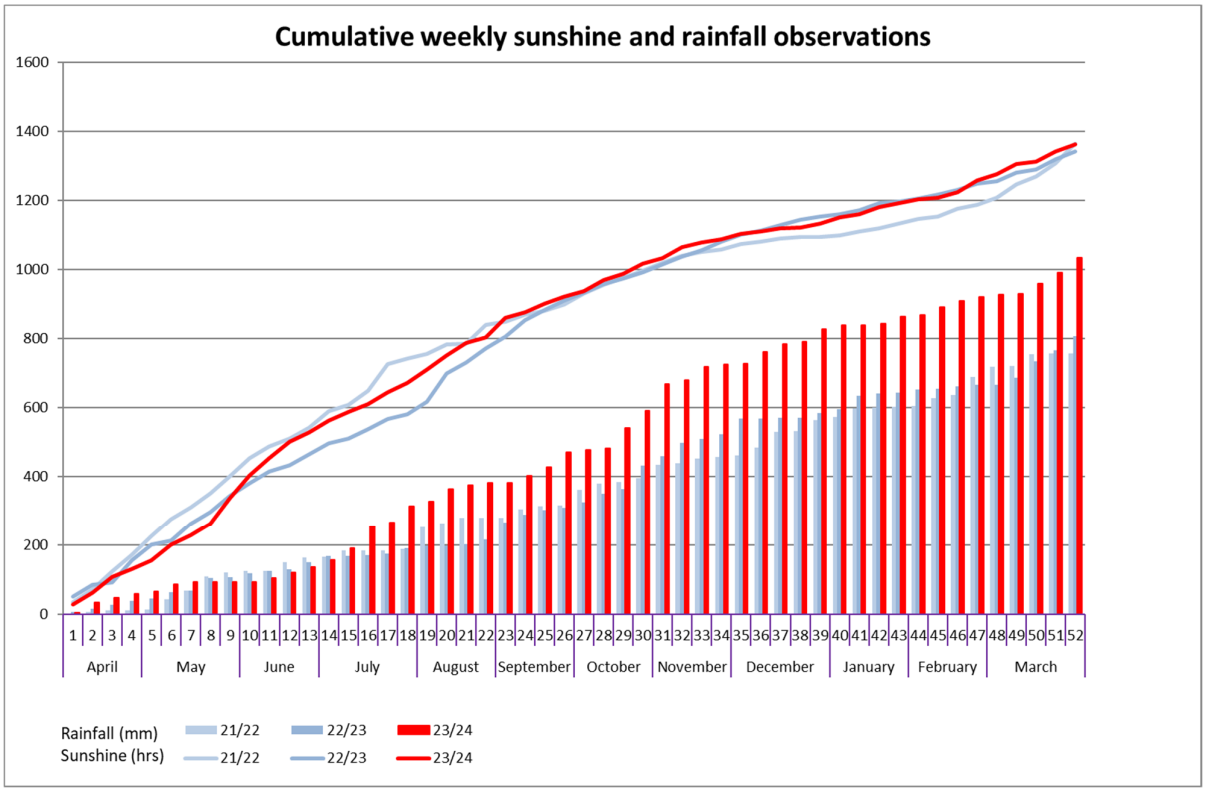


Fig. 5

Fig. 6 indicates that household demand broadly trends with the distribution input.

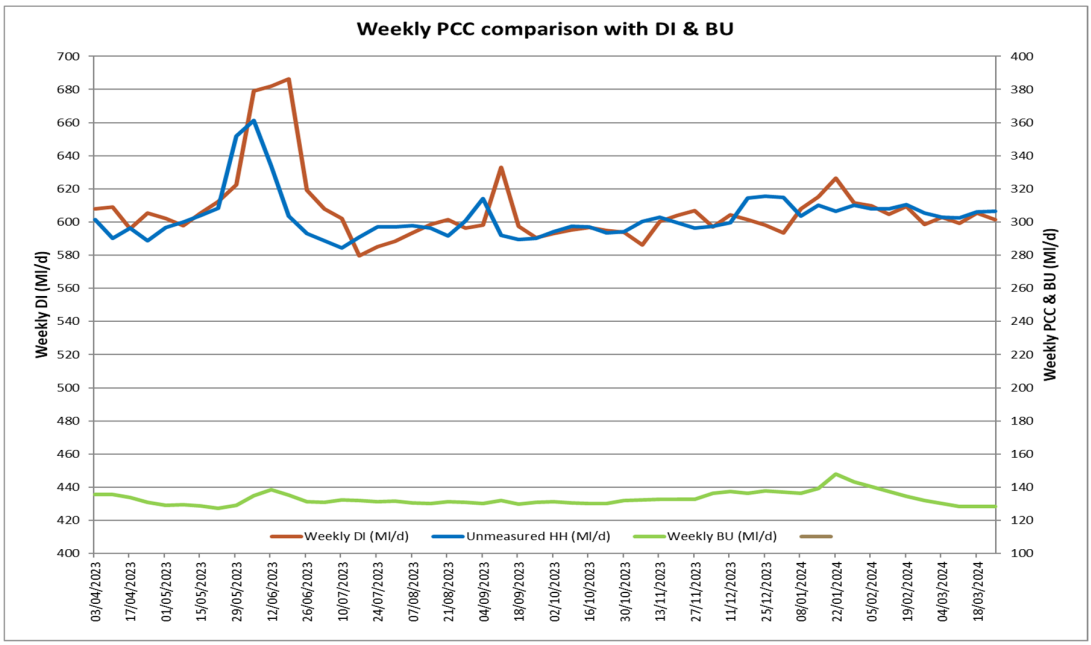


Fig. 6

Data Quality

NI Water has remained committed to improve data quality. During PC21, further improvements to data have continued to take place through various programmes of work and the dynamic calculation of key leakage components.

With Netbase embedded as NI Water's leakage reporting tool, the UKWIR 20th Percentile calculation of Bottom Up leakage remains, as reported in AIR23 commentary, and in keeping with the Reporter's recommendations the Bottom Up error estimation is 10%.

During AIR22, NI Water completed a project to upgrade to the latest version of our leakage management software, Netbase v26. This upgrade aligns NI Water to all other GB companies utilising this software and will enable NI Water to develop its leakage analysis, calculations, and strategies through the integration of various initiatives and enhancements outlined in our PC21 Business Plan submission. Data enhancements and initiatives will be integrated throughout the PC21 period.

As part of the Netbase upgrade, a Leakage Impact Assessment was completed to determine any potential variation in the Bottom Up leakage calculation due to the version update. This assessment was completed for the year 2020/21 and indicated that Bottom Up leakage could increase by 0.47 Ml/d.

In addition, for 2021/22, a period of parallel running of both Netbase versions indicated that the annual Bottom Up leakage could decrease by 0.5 Ml/d. AIR22 leakage reporting was calculated using Netbase v17.

NI Water, along with the leakage management software supplier, has continued its analysis of the Netbase v26 calculations and the impact of ongoing data improvements. Since AIR23, leakage reporting was calculated using Netbase v26.

NI Water are reporting a DMA operability value of 79% at the end of AIR24. NI Water is focussed on the continued improvement of operability however understand that this can be impacted by infrastructure upgrades, improvements, and weather/major events. It is expected that the additional functionality of the upgraded leakage management software, in parallel with PC21 infrastructure and data improvements, will result in an increased DMA operability value.

As a result of the higher demands throughout the year, operability is observed to drop following periods of dry & sunny weather conditions. During PC21, NI Water will continue to improve operability via a number of project streams outlined in the PC21 Business Plan.

COVID19

Although the COVID19 pandemic could be classified as an historic event, it has however, impacted the way in which domestic and commercial properties use water. In AIR21, analysis showed that household demand increased by 10% annually while non-household demand decreased by 7%. During the AIR22 period, and as a result of the incremental lifting of imposed restrictions, measured non-household consumption has increased by approx. 10%, however household consumption has remained elevated and could be associated with continued working from home or the adoption of hybrid working practises.

For AIR23 & AIR24, it is likely that household demand was still being impacted by the pandemic and it is uncertain at this time whether working and social practises will return to 'normal' however analyses within the water industry will continue to understand the potential impact to the leakage calculations.

Corporate Property Register (CPR) Project

NI Water commenced a property review project during AIR22 to enhance the current company property dataset with analysis of multiple available property data sources. This

included the validation/rationalisation of property address fields, for example the removal of punctuation, and the spatialisation & confidence rating of property locations resulting in a single source of property data.

Although the validation and data review aspect of this project is completed, it was envisaged that the CPR project would be embedded during AIR24 with the update/replacement of the current RAPID property system. As a result in delays, however, the implementation of this system is now expected during AIR25. Table 7 commentary outlines the CPR project in more detail.

For AIR24, data enhancement project work, in relation to leakage, included the integration of the updated property dataset into LMS Netbase. This work was completed and reflects one of the CPR key objectives of utilising a single source of property data across NI Water.

Trunk Mains & Service Reservoirs

With an aspiration towards the use of company specific calculations for all key aspects of the water balance, NI Water continues to build on their trunk main and service reservoir leakage calculation through the primary use of flow balance assessments. Imbalances issues continue to be addressed which include meter issues and connectivity.

NI Water continues to consider it prudent to fully investigate trunk main audits with perceived leakage to understand the resource economics and uncertainty associated with flow balances for trunk mains and service reservoirs. Innovation will also be utilised and trialled to assist in the location of potential leakage.
NI Water continue their involvement with the other GB water utilities in regard to the development of best practice guidance for the management and reporting of “upstream losses”.

Over the PC21 period, NI Water propose to introduce a phased reporting of trunk main and service reservoir flow balance audits into the leakage calculation.

Gross Measured Consumption

As part of the annual tariff submission to the UR , NI Water is required to submit the Principal Statement Information Capture System. One of the consistency checks in this submission is to compare the billed measured non-household volume (Table 10 Line 2) with the Principal Statement and for these volumes to reconcile to within 1%.

Reconciliation of both the Gross Measured Consumption Report and Principal Statement has closed to 0% since the 2014/15 reporting year.

HDF

As part of continuing data enhancements, and outlined within the PC21 business plan, NI Water has commenced work on the installation of over 3000 permanent pressure monitors and the development of a pressure model utilising Netbase, data analytics and modelling. This model will allow NI Water to calculate HDF dynamically and reduce interruptions to supply and it is envisaged that the reported HDF will be introduced and enhanced during PC21.

Leakage Capital Investment

The PC21 leakage business plan clearly identified a number of key areas of capital investment to replace and improve our network/assets as well as the ongoing improvement in data availability and quality.

The development and enhancement of monitoring the water network is a key strategy in understanding demand, consumption and leakage. All DMA meters utilised in the leakage calculation are now monitored both directly through telemetry, with 93% of the stock operating via telemetry kiosks, and the remainder updating regularly throughout the day and with the ability to alarm immediately upon the breach of a flow threshold.

Logger enhancements have provided the capability to poll loggers remotely to return data similar to live telemetry updates. Multiple daily data downloads in parallel with the setting of flow and pressure alarm protocols have increased data availability and quality to enhance leakage monitoring, targeting and reporting as well as being available during major incidents. Throughout PC21, NI Water will trial and utilise enhanced communication methods, e.g. NBIOT, which will allow more dynamic data analytics to be developed.

During 2023/24 projects were carried out to replace existing PRV stock that are operational across the network and to design, install and commission new PRV sites to optimise leakage reduction. This has resulted in 42nr PRV replacements and 58nr new PRV installations during the year both of which have included the installation of enhanced pressure control where appropriate.

DMA optimisation continues to play an important role within the success of the function. In 2023/24 the resolution of High Volume DMAs has played a key part in this. The underlying objective has been initially to investigate the unique factors that cause these DMAs to behave in such a manner and subsequently to provide an engineering solution where possible to reduce leakage.

DMA optimisation has also resulted in the review of DMAs with mains length greater than 75km. Our DMA stock has increased to 1162.

As work has continued in regard to High Volume DMA studies, DMA optimisation and data quality improvements, this has resulted in the installation of infrastructure improvement schemes as part of the overall capital improvement programme and also the installation of enhanced pressure control to develop a calm network and smarter infrastructure.

Included within the PC21 Business Plan is the strategy to trial innovative technologies. During 2021/22, NI Water put in place contracts for satellite imagery and acoustic loggers and have engaged with suppliers regarding the potential to trial other technologies. Throughout AIR23 & AIR24, innovation trials continued including the use of imagery analysis from light aircraft and the deployment of leak detection dogs.

NI Water has also undertaken a development output to target the renewal of mains based on leakage of mains material AC & PVC. The construction of the first three years' of identified mains has commenced with around 90% of these being completed by March 2024. Analysis of the benefits of this strategy of mains renewal commenced post-construction and will continue throughout the PC21 period.

For reference, the table below states the variables/parameters which may impact upon the variance in individual water balance component calculations.

	AIR23	**AIR24**
HDF (hrs)	23.2	23.2
UNHH consumption (m3/yr)	196.78	196.78
PCC MUR (%)	5.75	5.75

HH occupancy (nr)	2.50	2.50
NHH MUR (%)	5.75	5.75
SPL (Ml/d)	38.51	37.27
HH night use allowance (l/p/hr)	2.64	2.30
NHH night use allowance (l/p/hr)	Dynamic	Dynamic
Per Capita Consumption (l/hd/d)	143.02	142.37

Projects regarding the review and analysis of the parameters listed in the table above continues with consideration and strategic planning required regarding the application and impact of updates in light of new and evolving water industry leakage reporting guidance.

Line 1 – Billed Measured Household

There are no billed measured households and the value is therefore zero.

Line 2 – Billed Measured Non-Household

The reported value for water delivered to non-households has increased from 131.32 Ml/d in AIR23 to 132.15 Ml/d in AIR24.

In AIR15, after a full review, the Gross Measured Consumption Report (GMCR) was revised, amended and recoded to reflect the changes in data handling and the evolution of the metering and property company datasets which resulted in the variance between the GMCR and the Principal Statement calculations closing within the recommended 1%.

The variance between GMCR and the Principal Statement has closed to 0% since the 2014/15 reporting year. The GMCR is used to derive the billed measured non-household consumption as stated in Table 10 Line 2.

Similar to AIR23, the GMCR utilises metering data from the RAPID billing system. This volume does not include test meters that are not billed, trade effluent volumes, free supplies or NI Water supplies which are included under water taken unbilled. There was an 0.6% increase in measured consumption in AIR24 of 0.8 Ml/d.

A non-household meter under-registration (MUR) value of 5.75% has been added to billed measured non-household use.
WRc undertook a study during AIR21 to review the MUR figure for NI Water which is now 5.75%.

No allowance for underground supply pipe leakage has been added to this value as the measured non-households are all externally metered and therefore the billed consumption already includes underground supply pipe leakage (however, the figure for underground supply pipe leakage for measured non-households has been estimated and is part of total leakage in other lines of the table).

The confidence limit of 10% on this component has not been changed and is still considered to be appropriate.

Line 3 – Billed Measured

This is the summation of lines 1 and 2.

Line 4 – Billed Unmeasured Household

The reported value for Billed Unmeasured Household volume for AIR24 is 329.04 Ml/d. This figure reflects an increase of 4.6 Ml/d from the AIR23 value of 324.48 Ml/d.

The Billed Unmeasured Household volumes have been calculated by multiplying the average PCC figure for NI Water by the unmeasured household population. The method and sources of information are consistent with previous AIR returns. Similarly the source of the PCC figure is generated from the NI Water domestic consumption monitor. The household population figure is sourced from the Northern Ireland Statistics and Research Agency (NISRA) 2020. Adjustments are made to this household population figure to account for:

- Non-Household Population – Sourced from the most recent NISRA 2020 based population projections in alignment with Table 7.
- Unconnected Properties Population – The number of unconnected properties has been provided within NI Water by Rapid. The population of unconnected properties is determined by multiplying the assessed average occupancy from the NIHE Housing Condition Survey report by the number of unconnected properties.
- Farm Population – The population of farms is included as non-household use. The population is calculated as the number of farms multiplied by the average occupancy rate from NISRA. The number of farms is sourced from RAPID (NI Water's Billing System). The assessment takes into consideration farm properties that became void during 2023/24 but will have billed consumption associated with them.
- PCC Night Use Allowance Assessment

Underground Supply Pipe leakage has been applied to the billed unmeasured household volume component of this calculation.

A meter under-registration factor of 5.75% has been applied to this total volume. NI Water consider it appropriate to align the PCC MUR figure with the NHH MUR however will undertake a study to reassess this value during PC21.

Since AIR19, we have been investigating the use of fast-logging technology with the installation of new meters and equipment on a number of our PCC sites. This technology has allowed NI Water to determine a more accurate and dynamic household night-use value.

During the reporting year it is usual to undertake a comprehensive door to door survey covering approximately 20% of properties within the Domestic Consumption Monitor Areas As a result of COVID, and government guidance, NI Water considered it prudent to postpone the survey programme and re-establish surveys when door to door customer contact was considered appropriate. Surveys were re-established in the last quarter of AIR22 and for AIR24, 28% of PCC site households were identified for survey in order to address the survey shortfall of previous years.

The occupancy rate within the PCC sites is calculated for AIR24 at 2.26. The NISRA occupancy rate for Northern Ireland is 2.44 for 2023/24.

A figure of 1.5% continues to be applied to allow for the 'Hawthorne Effect' and is consistent with previous AIR submissions.

The confidence limit of 10% on this component has not been changed and is still considered to be appropriate.

In order to better understand the seasonal consumption patterns within the company's rural household stock, NI Water have installed a number of PHC monitors in rural locations with the expectation of accounting for atypical household demand in rural areas. We continue to investigate the benefits of calculating the billed unmeasured household value through the adoption of PHC sites. We have engaged our leakage management consultant, RPS, to

review best practice across the other GB water companies with a view to aligning industry methodologies.

Line 5 – Billed Unmeasured Non-Household

The reported value for Billed Unmeasured Non-Household for AIR24 is 5.57 Ml/d. The value reported in AIR23 was 5.73 Ml/d. NI Water has continued with a programme of meter installation of unmeasured non-household properties.

As unmeasured non-households have an allowance that has been estimated from metered non-households therefore underground supply pipe leakage has not been added to the occupied property component. Supply pipe leakage has been calculated for the void property component and included in this figure. A non-household company specific MUR value of 5.75% was applied for AIR24.

The confidence limit of 15% on this component has not been changed and is considered to be appropriate.

Line 6 – Billed Unmeasured

This is the summation of lines 4 and 5.

Line 7 – Estimated Water Delivered Per Unmeasured Non–Household

The post MLE figure for estimated water delivered per unmeasured non-household for AIR24 is 600.80 l/prop/d. The figure reported for AIR23 was 601.32 l/prop/d.

The allowance for unmeasured non-household properties for AIR24 is 196.78 m^3/prop/yr. This is the same figure reported in AIR23.

Line 7a – Estimated Water Delivered Per Unmeasured Household

The post MLE figure for estimated water delivered per unmeasured household for AIR24 is 416.52 l/prop/d. The figure reported for AIR23 was 419.39 l/prop/d.

The confidence limit of 10% on this component has not been changed and is still considered to be appropriate. A confidence grade of B3 has been applied to this calculation.

Line 8 – Per Capita Consumption (Unmeasured Household – Excluding Supply Pipe Leakage)

The post MLE PCC figure for AIR24 is 162.74 l/hd/d. The figure reported for AIR23 was 160.17 l/hd/d.

NI Water continues to employ domestic consumption monitors set up specifically to monitor unmeasured household consumption. These sites are small (average size of 48 properties), permanently bounded, monitored for leakage, and flows into them are recorded by meters.

The average PCC figure (pre-MUR) has been calculated as 142.37 l/hd/d. This assessment is based on 12 months consumption data from 1 April 2023 to 31 March 2024. This compares to a figure of 143.02 l/hd/d for AIR23.

Fast-logging has been installed on a number of PCC sites reporting 1-minute logged averages. The assessed domestic consumption on these sites therefore reflects the 1-minute data.

During previous high demand events and also noted as a result of atypical household demand analysis throughout the government lockdown restrictions, NI Water continues a review to determine the most appropriate methodology to calculate household consumption.

We have engaged our leakage management consultant, RPS, to review best practice across the other GB water companies with a view to aligning industry methodologies. This review will include appropriate monitoring of households particularly in rural and remote rural areas.

A company specific MUR value of 5.75% has been used for unmeasured PCC.
NI Water consider it appropriate to align the PCC MUR figure with the NHH MUR however will undertake a study to reassess this value during PC21.

The confidence limit of 10% on this component has not been changed and is still considered to be appropriate. A confidence grade of B3 has been applied to this calculation.

Line 9 – Per Capita Consumption (Measured Household - Excluding Supply Pipe Leakage)

There are no measured household supplies in NI Water; therefore no value has been input against this line.

Lines 10 to 13 – Underground Supply Pipe Leakage

For PC15, NI Water engaged their Leakage Management Services consultant, RPS, to review the underground supply pipe assessment which has resulted in the reduction of total supply pipe leakage to 39.91 Ml/d from 46.31 Ml/d during PC10.

During PC21, NI Water continues to review its SPL figure annually and for AIR24, SPL was calculated at 37.27 Ml/d.

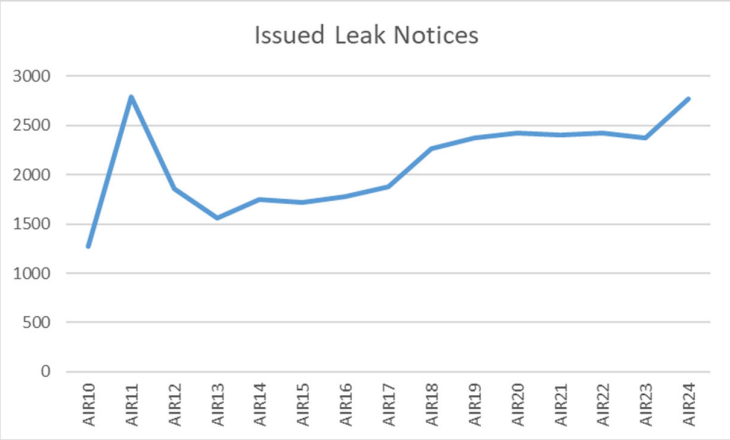
SPL accounts for approximately 24% of total leakage.

The total volume of Underground Supply Pipe Leakage was assessed using the recommended methodology contained in the UKWIR report ‘Towards Best Practice for the Assessment of Supply Pipe Leakage’ and based on 2023/24 company data.

The assessed SPL unit values for unmeasured and measured properties are 42.40 & 21.20 l/prop/d respectively.

Work previously undertaken, utilising Ofwat published data, indicated that the majority of the water companies in England and Wales estimate the underground supply pipe leakage on externally measured properties to be approximately half that of internally measured and other properties. NI Water has continued to adopt this assumption. In NI Water, the unmeasured non-household use is based on the measured non-household use. Therefore this assumption will also be applied to the unmeasured non-household.

It should be noted that the trend over recent reporting years has shown that the number of unreported customer side leakage defects, resulting in the issue of a Leak Notice, continued to increase since the SPL review utilising 2012/13 base data and levelling off since 2018/19. In AIR24 the number of issued leak notices increased by 17% from AIR23.
The number of leak notices issued during AIR24 is just 18 fewer than those issued during the freeze/thaw event of 2010/11. It is likely that this increase of customer leakage defects was as a result of the December 2022 winter event and located during the AIR24 reporting period.



Lines 14 to 15 – Meter Under-Registration

During AIR21 WRc undertook a study to review the measure non-household MUR figure for NI Water which concluded with a figure of 5.75%.
For AIR23, NHH MUR has remained at 5.75% and it is proposed to review this again during the PC21 period.

Furthermore, NI Water consider it appropriate to align the PCC MUR figure with the NHH MUR however we will undertake a study to reassess this value during PC21. The MUR value applied to the unmeasured household consumption is 5.75%. Since AIR19, we have been investigating the use of fast-logging technology with the installation of new meters and equipment on a number of our PCC sites and the creation of PHC sites. Analysis is ongoing as to the most appropriate use of fast-logging data and the potential to utilise PHC methodologies in the calculation of the billed unmeasured household component. This review will likely lead to a change in methodology for the calculation of billed unmeasured households which will be documented fully and will include an update of an appropriate MUR value.

Line 16 – Distribution System Operational Use

The reported value of Distribution System Operational Use (DSOU) for AIR24 is 2.59 Ml/d. The value reported for AIR23 was 2.84 Ml/d. This calculation is consistent with the AIR23 methodology.

The confidence limit of 25% on this component has not been changed and is considered appropriate.

Lines 17 to 19 – Water Taken Unbilled

The reported Water Taken Unbilled figure of 16.31 Ml/d in AIR24 has decreased from the value of 17.31 Ml/d in AIR23.
The decrease was observed to be predominately across measured and unmeasured wastewater treatment works and wastewater pumping stations.

The methodology used to estimate each category within Water Taken Unbilled remains consistent with AIR23.

The confidence limit of 25% on this component has not been changed and is considered appropriate.

Line 20 – Water Delivered (Potable)

All potable water supplied by NI Water is calculated as the sum of lines 3, 6 and 19.

Line 21 – Water Delivered (Non-Potable)

There are no non-potable supplies to NI Water customers.

Line 22 – Water Delivered (Non-Standard Rates: Potable)

There are no non-standard rates for potable supplies to NI Water customers.

Line 23 – Water Delivered (Non-Standard Rates: Non-Potable)

There are no non-standard rates for non-potable supplies to NI Water customers.

Line 24 – Distribution Losses

Distribution Losses for NI Water are calculated by subtracting Lines 16 (DSOU) and 20 (Water Delivered) from Line 26 (Distribution Input). Distribution Losses for AIR24 are estimated to be 118.08 Ml/d. This is a decrease on the AIR23 figure of 123.79 and is slight increase on the AIR22 figure of 117.13 Ml/d.

Line 25 – Total Leakage

Total leakage is the sum of distribution losses and underground supply pipe leakage. The reported figure for total leakage for AIR24 is 155.35 Ml/d. The reported figure for AIR23 is 162.30 Ml/d.

Total leakage is also calculated using an MNF methodology. For AIR24 the reported pre MLE MNF method leakage was 151.50 Ml/d. The figure reported for AIR23 is 159.64 Ml/d and equates to a decrease in BU leakage of 8.1 Ml/d.

NI Water has an extensive DMA network (approx. 1160 DMAs) covering 98% of all properties in Northern Ireland. All DMAs are monitored and exporting 15 minute flow data into corporate software systems and for leakage analysis. Approximately 93% of these DMAs are now monitored with electromagnetic meters with a direct link to the company telemetry system. The remaining DMAs are monitored by utilising data loggers attached to mechanical meters, and over the last few years logger data has migrated from GSM to GPRS communication technology. The GPRS loggers have an automatic link to the company's telemetry system and are programmed to provide data multiple times per day. NI Water are configuring the alarm capability of these loggers.

DMA minimum night flows (MNF) continue to be determined using a 20th percentile method. Minimum night flows are recorded on a daily basis.

NI Water has also engaged RPS to undertake a review study to determine the benefits of moving the billed unmeasured household calculation from PCC to PHC. This would better align the calculation to that of GB water companies and with best practice and would provide evidence of geographic and seasonal demand variances within NI Water.

Previous commentaries have discussed that the PCC monitored property sites may not be fully representative of households within rural and remote rural areas. Analysis is ongoing as to the most appropriate use of fast-logging data and this will likely lead to a change in methodology for the calculation of household night uses which will be documented fully.

The measured non-household night use allowance figure for AIR13 was 8 l/prop/hr as documented in 'Managing Leakage', however as stated in the AIR14 commentary, Netbase has become the leakage reporting tool for AIR14 onwards which utilises an integrated night use model embedded within Netbase which was developed based on the best practice as outlined in the UKWIR Report 'Estimating Legitimate Non-Household Night Use Allowances' for AIR10. This model was calibrated using approximately 1000 customer datasets and dynamically assesses night use based on consumption and consumer industry type. For AIR24 the measured non-household night use figure is 20.8 l/prop/hr.

During PC21, the installation of loggers across a statistically representative sample of non-households will allow the dynamic and seasonal calculation of non-household night uses. This will be consistent with current industry best practice.

According to the guidance provided in the reporting requirements, this line calculates total leakage by adding Distribution Losses (line 24) to the various calculated SPL components for MHH, UHH, MNHH, UNHH & voids. For PC21, on request of the Reporter, NI Water has commenced an annual review of customer supply pipe leakage. This is a change in reporting from PC15 were the Utility Regulator requested that SPL should remain constant throughout the PC15 period. For AIR24, SPL is reported at 37.27 Ml/d and equates to 42.40 l/prop/d.

It should be noted that the trend over recent reporting years shows that the number of unreported customer side leakage defects, resulting in the issue of a Leak Notice, has continue to increase since the SPL review utilising 2012/13 base data.

NI Water's service reservoir leakage and trunk main leakage remains constant at 4.53 Ml/d and 13.66 Ml/d respectively. NI Water has continued to develop a company specific assessment for both trunk main and service reservoir leakage based on a flow balance methodology. This is consistent with the recommendations of the Reporter and Utility Regulator.

NI Water continues to investigate potential leakage within these audits and is undertaking a number of proactive steps to identify and resolve leakage and calculation issues. However, NI Water consider it prudent to fully investigate the audits with perceived leakage to understand the resource economics and uncertainty associated with flow balances for trunk mains and service reservoirs.
Over the PC21 period, NI Water propose to introduce a phased reporting of trunk main and service reservoir flow balance audits into the leakage calculation.

A 10% error estimate has been applied to BU Leakage in the MLE calculation following the implementation of Netbase for PC13. This reflects the continued improvement in data quality resulting in the reduction of the error estimate from 15% reported in AIR13.

During PC21, and with the deployment of an upgraded Leakage Management Software, NI Water will continue to develop the leakage calculation to become more dynamic. This strategy will develop in parallel with trialling a number of innovations throughout PC21.

Line 26 – Distribution Input

The distribution input figure for AIR24 is calculated as a post MLE figure of 603.74 Ml/d. The distribution figure for AIR23 was 606.09Ml/d.

The company specific confidence interval for distribution input for AIR24 remains at 2.1% and is unchanged from AIR23.

The method of reporting and calculating the company distribution input figure remains consistent in that it is based on a definitive number of input meters. As in previous years, NI Water has continued with an annual programme of calibration of DI meters.
In August 2022, NI Water introduced a new borewell supply at Moneymore SR. This new source can supply approximately 0.6 Ml/d.

In line with the guidance provided, details of the distribution input for each of the PPP Water Treatment Works site is as follows:

	pre-MLE (Ml/d)	post-MLE (Ml/d)
Ballinrees	28.48	28.34
Castor Bay	113.39	112.86
Dunore Point	113.85	113.33
Moyola	15.58	15.51
Total	**271.30**	**270.04**

Line 27 to 28 – Bulk Supply Imports / Exports

There are no bulk imports of water to NI Water. There is one small import from the Republic of Ireland which supplies 3 properties.

There are 77 small exports to the Republic of Ireland. These exports are predominately individually metered customers and these meters are read and billed through RAPID in a category known as cross border supplies. This figure is included in the metered non-household consumption category.

The post MLE volume amounts to 0.49 Ml/d and includes an MUR adjustment of 5.75%.

Line 29 – Water Treated At Own Works to Own Customers

With the exception of the 77 small exports above, all water treated at its own works is used by NI Water's own customers. The post MLE distribution input volume amounts to 606.09 Ml/d and deducting the cross border exports the volume of water treated at NI Water's own works to its own customers is 603.25 Ml/d.

Overall Water Balance

AIR24 - Water Balance						
NIW	**Pre MLE** (mld)	**Error estimate** (%)	**Confidence Range** (mld)	**% of total**	**MLE Adjustment** (mld)	**Post MLE** (mld)
Billed Measured HH	0.00	10%	0.00	0.0%	0.00	0.00
Billed Measured NHH	129.35	10%	167.31	10.7%	2.80	132.15
Billed Unmeasured HH	312.66	10%	977.56	62.7%	16.38	329.04
Billed Unmeasured NHH	5.56	15%	0.70	0.0%	0.01	5.57
SPL	37.27					37.27
DSOU	2.58	25%	0.42	0.0%	0.01	2.59
Water Taken Unbilled	16.04	25%	16.09	1.0%	0.27	16.31
Sum of components	580.42					603.75
Distribution Input	606.54	2%	166.91	10.7%	2.80	603.74
Top Down Leakage	**177.62**					
BU Leakage	**151.50**	10%	229.52	14.7%	3.85	**155.35**
Imbalance (mld)	**26.12**			100.0%		
% Imbalance	**4.31%**					**485.67**

Table 1: Water Balance

The Water Balance produces an overall imbalance of 26.12 Ml/d, (4.31%). The imbalance reported for AIR23 was 16.67 Ml/d, (2.74%).

It is considered that in applying the confidence grade in accordance with the guidance notes contained in Table 10 of the NIAUR Annual Information Return Reporting Requirements and Definitions Manual 2024, the confidence grade applied to the NI Water's water balance for AIR24 is B2. The confidence level for the overall water balance for AIR23 was B2.

Confidence Grades

All components in the water balance are subject to errors to a greater or lesser extent, and as a method of comparing the accuracy and robustness of water balance components, the Utility Regulator uses an Alpha-numeric confidence grading system consisting of reliability bands (A to D) and Accuracy Bands (1 to 6).

NI Water adopted this approach a number of years ago and the current confidence grading for the water balance are shown in Table 2 below.

Line 7 – The Unmeasured Non-household Water Delivered confidence grade remains a B4 for AIR24.
An error estimate of 15% has been applied to this component in the MLE calculations.

Line 7a – Unmeasured Household Water delivered has been assigned a confidence grade of B3. This remains unchanged from AIR23.

Line 8 - Unmeasured Household Per Capita Consumption has a confidence grade of B3. This component has been calculated using the company's own consumption monitor data and remains unchanged from AIR23.

Line 25 - Total Leakage has a confidence grade of B3 for AIR24 and is consistent with AIR23.

A 10% error estimate has been applied to BU Leakage in the MLE calculation following the implementation of Netbase for PC13. This reflects the continued improvement in data quality resulting in the reduction in error estimate from 15% reported in AIR13.

Line 26 - Distribution Input has a confidence grade of B2. The sum of components and the distribution input balance to less than 5%.
A 2.1% error estimate has been applied to DI in the MLE calculation.

Line 30 - In accordance with the definition provided by the Utility Regulator the overall Water Balance has a confidence grade of B2 in AIR24.

It is considered appropriate that the confidence grade for AIR24 is B2, as the water balance components reconcile with measured distribution input to greater than 2% and less than 5%. Similar to AIR23, Bottom Up leakage is estimated with over 80% of properties continually monitored through night line analysis (recorded more than 20 times per year) and sample flow balance audits have been undertaken on service reservoirs and trunk mains.

Table 2 Water Delivered Components Confidence Grades

Component	Reliability Bands				Accuracy Bands						
	A	B	C	D	1 <1%	2 1-5%	3 5-10%	4 10-25%	5 25-50%	6 50-100%	X
Unmeasured Non-Household Water Delivered (l/prop/d)											
Unmeasured Household Water Delivered (l/prop/d)											
Unmeasured Household Per Capita Consumption (l/head/d)											
Total Leakage (Ml/d)											
Distribution Input (Ml/d)											
Overall Water Balance											

Lines 31 - Security of Supply

Security of Supply is discussed in Table 10a.

NORTHERN IRELAND WATER LIMITED - ANNUAL INFORMATION RETURN

ANNUAL INFORMATION RETURN - TABLE 10A NON FINANCIAL MEASURES

SECURITY OF SUPPLY INDEX - PLANNED LEVEL OF SERVICE (TOTAL)

1	2	3	4	5	6	7	8	9	10	11	12	13	14
Water resource zone	**WAFU (EA definition) (Ml/d)**	**Bulk imports (Ml/d)**	**Bulk exports (Ml/d)**	**Dry year distribution input (Ml/d)**	**Reporting year distribution input (Ml/d)**	**Dry year available headroom (Ml/d)**	**Target headroom (Ml/d)**	**Surplus/ deficit (Ml/d)**	**Percentage surplus/ deficit (Ml/d)**	**Zonal population**	**Percentage of total population with headroom deficit**	**Zonal index (%age deficit^2 x % population affected x 100)**	**Security of supply index**
Altnahinch	11.26	0.00	0.00	9.15	9.44	2.11	0.84	1.27	0.13	27.03	0.00	0.00	
Central	31.89	0.00	0.00	28.49	29.38	3.40	1.49	1.91	0.06	82.62	0.00	0.00	
Clay Lake	4.70	0.00	0.00	3.96	4.09	0.74	0.43	0.31	0.07	7.37	0.00	0.00	
East	175.18	0.00	0.00	162.87	167.99	12.31	6.88	5.43	0.03	594.29	0.00	0.00	
Killylane	14.33	0.00	0.00	11.71	12.08	2.62	0.62	2.00	0.16	43.09	0.00	0.00	
North	91.65	0.00	0.00	64.00	66.02	27.65	4.43	23.22	0.34	230.16	0.00	0.00	
North East	243.36	0.00	0.00	104.39	107.67	138.97	9.42	129.55	1.14	413.60	0.00	0.00	
South	148.70	0.00	0.00	135.22	139.47	13.48	8.05	5.43	0.04	361.82	0.00	0.00	
South West	34.79	0.00	0.00	27.78	28.65	7.01	1.69	5.32	0.18	63.27	0.00	0.00	
West	44.52	0.00	0.00	40.47	41.75	4.05	3.75	0.30	0.01	95.87	0.00	0.00	
Total	**800.38**	**0.00**	**0.00**	**588.04**	**606.54**					**1919.12**		**0.00**	**100.00**

Table 10a (i) – Non Financial Measures - Security of Supply Index – Planned Level of Service

NI Water's latest Water Resource and Supply Resilience Plan (WR&SR Plan) is complete and at consultation stage with the final plan to be published before the end of 2024. The 2024 WR&SR Plan takes 2019/20 as its base year and has a planning horizon of 50 years, up to 2069/70 for the Water Resource Management element. The Security of Supply Index (SoSI) calculated for AIR24 is based on Ofwat's letter RD 03/02, and is formulated from the information presented in the WR&SR Plan. It should be noted, prior to AIR 24, previous returns relating to SOSI were based on the 2020 Plan.

There have been changes to a number of the inputs in the calculation, based on the 2024 WR&SR Plan compared to previous 2020 plan, these are detailed below:

1. The 2024 WR&SR Plan has seen the creation of three additional Water Resource Zones (WRZs) increasing the number of WRZs from 7 to 10 with the addition of Altnahinch, Clay Lake and Killylane. In addition the boundary between North East and East WRZ was amended.
2. The North WRZ previously included Altnahinch Water Supply Zone (WSZ) however customers within the Altnahinch WSZ appear to experience a greater risk of supply failure. This is due to the lack of available headroom within the WSZ, limited capacity of the link main from Ballinrees WTW, and because the storage upstream of Altnahinch WTW is lower than other locations. Therefore Altnahinch has been separated into an individual WRZ.
3. The demand centre supplied from Clay Lake WTW, within the South WRZ, is not sufficiently linked to the remainder of the network, with customers experiencing a greater risk of supply failure due to a lack of available headroom. Therefore Clay Lake has been separated into an individual WRZ.
4. The Integrity Assessment carried out as part of the plan development highlighted a greater risk of supply failure for customers supplied within the Killylane WSZ. The Killylane WTW and the secondary supply from Dunore Point WTW were close to their design capacities during the recent current Average Day Peak Week (ADPW) demand scenario. Therefore Killylane WTW has been separated into an individual WRZ.
5. The southern section of the East WRZ experiences a greater risk of supply failure than the northern section (North Belfast) as there is a limit to the amount of water that can be transferred from Dunore Point WTW south across Belfast. Therefore, the boundary between the North East WRZ and East WRZ has been adjusted so that the majority of the area supplied from Dunore WTW is within the North East WRZ. This revised North East WRZ contains the Dorisland WSZ which previously within the East WRZ.
6. The latest Water Available for Use (WAFU) figure has increased from the 2020 plan by 41.3Ml/d from 759.08Ml/d to 800.38Ml/d . This is due to a number of reasons including a more detailed assessment of WTW Outage.
7. The dry year uplift factor has decreased in the latest plan from 1.7% in 2020 to 1.3% in 2024.

The total population figure used within the SoSI calculation has been confirmed to correspond with the population figure used in AIR 24 Table 7.

As part of previous reporters Recommendations, it stated that *'Recommend as part of the WMRP update the Company continues to investigate if data exists to further refine the normal year uplift.'*

The methodology for calculating the uplift was reviewed as part of the latest WR&SR Plan and is based on the UKWIR guidance report on household consumption forecasting. The report offers various options for calculating these factors with the trend analysis of demand method selected for the current plan based on data availability and the required resolution. The calculation process involved collating household demand data, normalizing the data to account for confounding factors, selecting dry years using a rainfall-temperature quadrant plot, developing a regression model to relate consumption with time and estimating normal year and dry year factors based on the ratio between predicted and actual consumption, for the selected dry year and the base year.

The 'dry year uplift factor' refers to the % uplift that should be applied to average demand (Ml/d) in a normal weather year to estimate the average demand (Ml/d) in a dry weather year.

Based on analysis carried out on historical rainfall and temperature data from 1988 to 2024, 2023/24 is deemed as a "Warm & Wet" year as can be seen in Figure 1 below. The monthly demand weather model was populated with the outputs for 2023/24 and this estimates the average DI would be 3.05% lower in a dry year (like 1995/96) than in 2023/24. This was calculated, as the DI was 4.35% higher in 2023/24 than would be expected in NYAA.

Therefore the Dry Year Uplift Factor then would be 1.3% (Difference in DYAA TO NYAA) - 4.35% (Difference in 2023/24 to NYAA) which equates to -3.05%. Thus, an uplift factor of 0.9695 has been used in the SoSI 24 calculation.

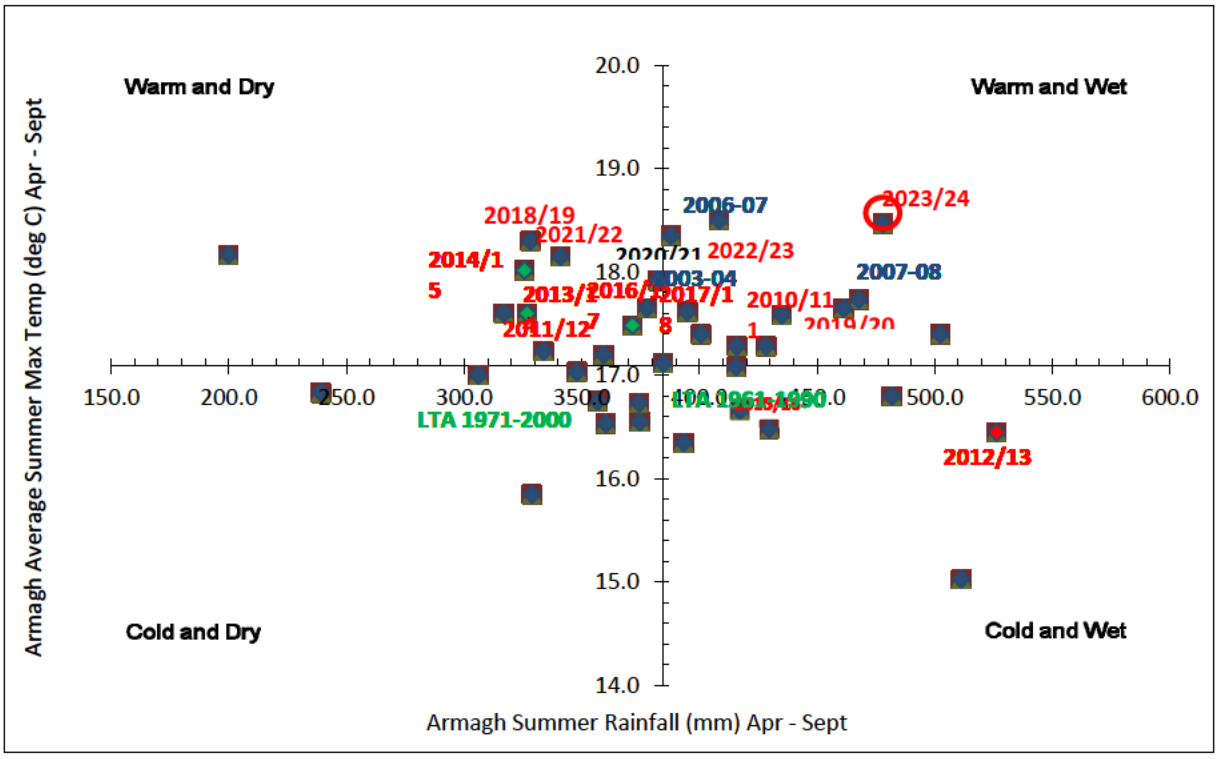


Figure 1 – Historical Rainfall & Temperature Data Summer (April-September 2023)

The overall SOSI is **100%**. This is an increase from AIR23 where the reported figure was 99%. This change is primarily due to the increase in WAFU from the previous plan.

Table 10a (iii) – Non Financial Measures - Security of Supply Index – Critical Period (TOTAL)

The security of supply index has been calculated based on the outputs from the Water Resource & Supply Resilience Plan (WR&SRP) 2024.

In previous years, the assumption by NI Water was that a SOSI – Critical Period has not been required. The previous justification has been that:-
The supplies available to NI Water are dominated by abstractions from Lough Neagh, which can be considered an infinite hydrological storage resource. In addition, recent demand data does not suggest that there is a strong peak demand driver in Northern Ireland. For these reasons, it is not appropriate or necessary to consider the critical period scenario for Northern Ireland, because this is not the primary driver for investment to maintain the supply demand balance. On this basis, there has been no need for NI Water to develop a SOSI calculation for a critical period.

As part of the Reporters Recommendations for AIR15, he stated - *Recommend the Company reassess the need for a Critical Period SOSI during its preparation of WRMP17.*

As highlighted previously as part of the 2020 Water Resource and Supply Resilience Plan, critical periods were included within the analysis, and it was felt a critical period SOSI should be able to be calculated. This is now the case, however, given that the Water Resource and Supply Resilience Plan 2024 is currently going through consultation, the intention is to await the outcomes of this given the likely changes to the supply/demand calculations and the impact on any critical SOSI calculation.

NORTHERN IRELAND WATER LIMITED ANNUAL INFORMATION RETURN

ANNUAL INFORMATION RETURN TABLE 11 NON FINANCIAL MEASURES
WATER SERVICE ACTIVITIES (NI Water Only)

	DESCRIPTION	UNITS	DP	1 REPORTING YEAR 2015 16	CG	2 REPORTING YEAR 2016 17	CG	3 REPORTING YEAR 2017 18	CG	4 REPORTING YEAR 2018 19	CG	5 REPORTING YEAR 2019 20	CG	6 REPORTING YEAR 2020 21	CG	7 REPORTING YEAR 2021 22	CG	8 REPORTING YEAR 2022 23	CG	9 REPORTING YEAR 2023 24	CG	10 REPORTING YEAR 2024 25	CG	11 REPORTING YEAR 2025 26	CG	12 REPORTING YEAR 2026 27	CG
A	**ASSET BALANCE AT APRIL 1**																										
1	Total length of mains	km	2	26,712.44	B3	26,728.83	B3	26,778.15	B3	26,837.45	B3	26,958.40	B3	27,002.82	B3	27,014.82	B3	27,086.39	B3	27,140.38	B3						
B	**CHANGES DURING REPORT YEAR**																										
2	Mains renewed	km	2	105.24	A2	161.29	A2	120.55	A2	154.66	A2	133.94	A2	96.65	A2	91.60	A2	90.86	A2	69.93	A2						
3	Mains relined	km	2	0.00	A1	0.00	A1	0.00	A1	0.00	A1	0.00	A1	0.00	A1	0.00	A1	0.00	A1	0.00	A2						
4	Mains cleaned (total)	km	2	1,191.68	B3	1,665.69	B3	2,008.61	B3	2,257.19	B3	2,390.31	B3	2,189.20	B3	2,223.75	B3	2,240.24	B3	2217.09	A2						
6	New mains	km	2	76.51	B2	75.22	B2	92.43	B2	83.91	B2	81.68	B2	64.92	B2	78.94	B2	101.64	B2	124.17	A2						
6a	Total length of new, renewed or relined mains	km	2	181.75	B2	236.51	A2	212.98	A2	238.57	A2	215.62	A2	161.57	A2	170.54	A2	192.50	A2	194.10	A2						
6b	Length of new, renewed or relined mains delivered under the watermain rehabilitation programme	km	2	116.92	A2	172.27	A2	126.00	A2	166.52	A2	149.33	A2	104.13	A2	101.62	A2	123.33	A2	127.37	A2						
7	Mains abandoned and other changes	km	2	105.51	A2	167.55	A2	124.24	A2	158.49	A2	135.13	A2	89.05	A2	74.61	A2	112.91	A2	139.04	A2						
8a	Lead communication pipes replaced as a consequence of water quality sample failures	nr	0	37	B2	44	B2	43	B2	35	B2	18	B2	17	B2	37	B2	0	B2	25	A2						
8b	Lead communication pipes replaced as a consequence of customers notifying NI Water that they are replacing their lead	nr	0	703	B2	599	B2	574	B2	562	B2	455	B2	324	B2	470	B2	395	B2	422	A2						
8c	Opportunistic lead communication pipes replacement undertaken under the watermain rehabilitation programme or during burst service pipe repairs	nr	0	660	B2	1801	A2	76	B3	75	B3	41	B3	28	B3	22	B3	34	B3	124	A2						
8d	Lead communication pipes replaced under the proactive lead replacement programme	nr	0	1,922	B2	1,867	A2	1,767	A2	2,070	A2	1,781	A2	1,675	A2	1,864	A2	1,873	A2	2016	A2						
9	Total lead communication pipes replacec	nr	0	3,322	B2	4,311	A2	2,460	A2	2,742	A2	2,295	A2	2,044	A2	2,393	A2	2,302	A2	2587.00	A2						
10	Communication pipes replaced - other	nr	0	3,915	B3	5,608	B2	3,769	B2	4,232	B2	5,664	A2	3,739	A2	2,881	A2	2,896	A2	3511	A2						
11	Mains bursts per 1000km	nr	0	74	B3	80	B3	91	B3	92	B3	82	B3	88	B3	92	B3	92	B3	84	B3						
C	**ASSET BALANCE AT MARCH 31**																										
12	Total length of mains	km	2	26,728.83	B3	26,778.15	B3	26,837.45	B3	26,958.40	B3	27,002.82	B3	27,014.82	B3	27,086.39	B3	27,140.38	B3	27,215.43	B3						
D	**DISTRIBUTION STUDIES**																										
13	Cumulative number of distribution zone studies completed	nr	0	71	A1	71	A1	71	A1	71	A1	71	A1	71	A1	n/a		n/a	0								
14	Distribution zone studies ongoing	nr	0	0	A1	0	A1	0	A1	0	A1	0	A1	0	A1	n/a		n/a	0								
15	Total distribution zones identified for study	nr	0	71	A1	71	A1	71	A1	71	A1	71	A1	71		n/a		n/a	0								
16	Cumulative % distribution zone studies completed	%	1	100.0	A1	100.0	A1	100.0	A1	100.0	A1	100.0	A1	100.0	A1	n/a		n/a	0								
17	Percentage population/properties - completed studies	%	1	100.0	A1	100.0	A1	100.0	A1	100.0	A1	100.0	A1	100.0	A1	n/a		n/a	0								
E	**WATER QUALITY COMPLIANCE MEASURES**																										
18	% overall compliance with drinking water regulations	%	2	99.83	A2	99.86	A2	99.88	A2	99.90	A2	99.90	A2	99.94	A2	99.88	A2	99.91	A2	99.92	A2						
19	% compliance at consumers tap	%	2	99.74	A2	99.77	A2	99.81	A2	99.83	A2	99.84	A2	99.91	A2	99.82	A2	99.88	A2	99.88	A2						
20	% iron compliance at consumers tap	%	2	98.40	A2	98.66	A2	98.85	A2	98.94	A2	98.89	A2	99.56	A2	99.35	A2	99.15	A2	99.71	A2						
21	% Service Reservoirs with coliforms in >5% samples	%	2	0.00	A1	0.00	A1	0.00	A2	0.00	A1	0.00	A1	0.00	A1	0.00	A1	0.00	A1	0.00	A1						
F	**NOMINATED WATER SERVICE OUTPUTS**																										
22	Completion of nominated trunk main schemes	nr	0	2	A1	1	A1	0	A1	0	A1	0	A1	1	A1	1	A1	1	A1	3	A1						
23	Completion of nominated water treatment works schemes	nr	0	1	A1	0	A1	0	A1	0	A1	1	A1	1	A1	1	A1	3	A1	3	A1						
24	Completion of nominated improvements to increase the capacity of service reservoirs and clear water tanks	nr	0	0	A1	0	A1	1	A1	0	A1	1	A1	1	A1	1	A1	0	A1	2	A1						
G	**PC15 ADDITIONAL WATER SERVICE OUTPUT MEASURES**																										
25	Number of school visits	nr	0	277	A1	257	A1	219	A1	246	A1	229	A1	266	A1	299	A1	210	A1	219	A1						
26	Number of other education events	nr	0	65	A1	64	A1	62	A1	66	A1	143	A1	12	A1	64	A1	63	A1	78	A1						
H	**PC21 ADDITIONAL WATER SERVICE OUTPUT MEASURES**																										
27	Number of catchments where management plan recommendations have been implemented	nr	0													0	B3	3	A2	4	A1						
28	Number of treatability studies completec	nr	0													0	A1	1	A1	0	A1						
I	**WATER MODELS**																										
29	Number of models built/rebuilt in yea	nr	0																	6	A1						
30	Number of models maintained in year	nr	0																	0	A1						
31	Number of models in library	nr	0																	34	A1						
32	Model coverage using percentage of connected properties covered by a model	%	0																	63	B3						
33	Average age of models in the library in year	Years	1																	3	A1						
34	Maximum age of models in the library, in year:	Years	1																	5	A1						
35	Number of models in the library older than 5 years	nr	0																	2	A1						
36	Number of models in the library older than 7 years	nr	0																	0	A1						
J	**WATER WORK PACKAGES ISSUED FOR CONSTRUCTION**																										
37	Number of WIIM Packages issued for construction in yea	nr	0																	4	A1						
38	Number of water mains rehab schemes within WIIM Packages issued for construction in yea	nr	0																	72	A1						
39	Length of water mains rehab schemes w thin WIIM Packages issued for construction in yea	km	1																	49.6	A1						
40	Estimated cost of water mains rehab schemes within WIIM Packages issued for construction in year	£m	1																	5.4	A3						

Table 11– Water Service Activities

Line 1 – Total length of mains on 1st April

This value has been extracted from the previous AIR submission.

Lines 2 to 10 - Changes during the reporting year

This document provides the commentary on the following tables and lines for NI Water and records the amount of capital and maintenance activity carried out in the report year 2022/2023 on water mains and communication pipes.

The figures for these lines were supplied respectively by:

- extracting and summarising the source output data of Projects Progress by sorting data from the NI Water CPMR System, in the "Water Infra by Projects" section for the period April 2023 to March 2024, (which are submitted/compiled monthly by the Asset Delivery Team (AD)). This data was extracted from CPMR on 24th April 2024

The Reservoir Safety and Compliance Unit, on behalf of The Customer and Operations Directorate (C &OD), by extracting and summarising the source output data from their monthly reporting records and checking with colleagues.

Total Mains Activity Progress

Northern Ireland Water has delivered 194.10km of total mains activity in AIR 24

(No relining has been carried out in this period).

Watermains Rehabilitation Progress against PC21 Target

The **cumulative** length of Watermains Rehabilitation pipelines completed to date by Year 3 is 352.32km (See Table as Year 3 Total is 127.37km)

Total of 3 Years = 352.32km at the end of the AIR24 period
The 3-year FD Cumulative Target should be 419.1km. (i.e. 139.7km *(per year)* x3 years)

This years (AIR 24) total is 127.37km however each year remains below the annual average PC21 FD target of 139.7km for PC21.

The relatively low figure for Year 1 of PC21 was due to a number of factors including: availability of resources due to the draw from other utilities such as Gas, Telecoms and Irish Water, increases in material costs and more work focused in urban areas, which is generally slower to complete.

Proactive Lead Replacements Total against PC21 Target

The PC21 year 3 sub programme 23 results showed 2,016nr (plus1,873nr from Year 2 and 1,864nr from Year 1 gives a running total of = 5,753nr lead pipes replaced as a result of the implementation of the proactive lead replacement programme.)

The PC 21 target figure by year 3 should be = 1,844nr x 3 (years) = 5.532nr
The PC21 Running Total is currently 5,753nr
This running total is therefore on target to achieve the planned PC21 total.

Summary of Mains Activity Figures for PC21

Activity Description	Total Return AIR22(km)	Total Return AIR23 (km)	Total Return AIR24 (km)	PC21 TOTAL (km)Year 3
New Mains (WMRP)	22.68	32.91	57.96	113.55
Renewed Mains (WMRP)	78.94	90.42	69.41	238.77
Relined Mains (WMRP)	0	0	0	0
Total WMRP Activity	101.62	123.33	127.37	352.32
Nominated Trunk Mains (New)	0	9.36	12.01	21.37
Nominated Trunk Mains (Renewed)	0	0	0	0
Total Nominated Trunk Mains Activity	0	9.36	12.01	21.37
Sub Programme 23c, e, z,6z,7z,1b Trunk Mains	3.74	5.27	5,78	14.79
Sub Programme 23c and 23e Distribution Mains	7.42	0.15	2.52	10.09
Total Sub Programme 23c and 23e	11.16	5.42	8.30	24.88
New Mains – within new Developments	56.26	53.95	45.90	156.11
Total mains within new Developments	56.26	53.95	45.90	156.11
1st Time Services – Serving New Developments	0	0	0	0
1st Time Services - Renewed	0	0	0	0
Total 1st Time Services	0	0	0	0
Mains Development/Diversions - Renewed	1.5	0.44	0.52	2.46
Total New Development Activity	1.5	0.44	0.52	2.46
Total Mains Activity in the Period	**170.54**	**192.50**	**194.10**	**557.14**

Strategic Trunk Mains Progress for PC21 - Year 3

The total length of Nominated Strategic Mains funded under sub prog 5, is 4.70km plus 3.138km plus 4.173km, made up of (All New Mains) JL 715 Caugh Hill Carmony to Strabane Trunk main, JP 702 Killyhevlin to Cavanacross Trunk Mains and JR 524 Whitespots Greyabbey Trunkmain.

Sub Total for Sub Programme 5 Nominated Strategic Mains is 12.011km new Mains and 0km of Renewed Mains

The total length of Non-Nominated Strategic Mains, (which are not funded under the Watermains Rehabilitation Budget but funded from Sub Programmes 23c and 23e) is: 4.009km (New mains), from the JV 901 Fofanny to Alt Trunkmain Phase 1.
Also, JR 526 Old Park Terrace (23z) contributed 0.113km of New Mains to this total.

Sub Total for Sub Programmes 23c and 23e Non-Nominated Strategic Mains is 5.532km of New Mains Only

The total Length of Sub Programme 6z and 7z - Mains installed as part of non-nominated SR Rehab and CWT Construction are made up from: JF 615 CWT Seagahan 0.186km (New) and JB 741 Tuftarney SR Inlet and Outlet Pipework 0.03km (New), Total of 6z and 7z is 0.186km Seagahan (New) plus Tuftarney (New) 0.03km.
Sub Total is 0.216km of New Mains

The total Length of Sub Programme 1b WPS Base Maintenance reported as being installed in this reporting period is 0.038km under JI 179 and JI 180.
Sub Total of 1b is 0.038km of New Mains

Total New Strategic Mains = **17.797km** i.e. 12.011 plus (0.038 plus 5.748=5.786)
Total Renewed Strategic Mains = **0km**

Total Distribution mains laid alongside Strategic Mains (Laid alongside JR524 Whitespots 2301m of 125mm DI and including the Mountstewart Road Repair 220m of 180mm DI) = **2.521km**

Line 2 - Mains renewed (km)

Line	Description	Units	DP	AD	AD CG	C&OD	C&OD CG	Total	Overall CG
2	Mains renewed	km	2	69.411	A2	0.52	B3	69.93	A2

Asset Delivery

- The Asset Delivery team has continued its method of reporting on renewed mains in line 2 to comply with the Regulator's Annual Information Return reporting requirements and definitions manual.
- The Asset Delivery Figure is made up 69.411km of Watermains Rehabilitation and 0km of Renewed Nominated Strategic Mains = (Lower than last year's total of 90.42km).
- This figure does not include first time services.
- Asset Delivery is the primary contributor to this information.
- The AD confidence grade (and therefore the line confidence grade) is A2.

C&OD Networks Water

- C&OD Networks Water has continued to manage some smaller schemes, for example, social housing redevelopments and minor mains diversions or realignments.
- This confidence grade is assessed to be B3.

The C&OD mains renewal work is usually very low volume as is the case here.

Continuing discussion and guidance are provided for the relevant Field Managers when providing this information.

The length recorded is generally in line with the last 5 year's average C &OD figure of 0.85km and similar to last year's total of 0.44km. Most of the workload relevant to this line is dependent on other bodies such as NIHE or Transport NI and is also customer driven. There is no set target for each year.

Overall Line Confidence Grade is A2 - The overall confidence grade is A2 due to the fact that the Asset Delivery return is nearly all of the total, with minimal C&OD input.

Line 3 - Mains Relined (km)

At present this activity is not carried out either by Networks Water or by Asset Delivery and the Confidence Grade is A1 as the total is 0.00km.

Overall Line Confidence Grade is A1 as the return is zero for both Asset Delivery and C&OD Networks Water.

There has been no change in the current mains relined figures in PC21 as this methodology is not currently used within NI Water. The Asset Delivery Team continue to review the value for money from the delivery of mains relining.

Line 4 - Mains Cleaned (km)

Line	Description	Units	DP	AD	AD CG	C&OD	C&OD CG	Total	Overall CG
4	Mains cleaned (total)	km	2	0.00	A1	2,217.09	B3	2,217.09	B3

Asset Delivery

This activity is not currently an activity carried out by the AD Team.
Watermains Conditioning is however being considered by NI Water as a value for money, way forward to Rehabilitate watermains which have good structural integrity but are contributing to poor water quality.
Confidence Grade A1

C&OD Networks Water

Detailed data for the reporting period was collated by the Water Production Line (Networks Water) Operational (WPL) Team using MWM system reports. As directed by the Regulator, repeat flushing of the same length of main has been discounted.

Work Orders are automatically generated at various frequencies and dispatched to Distribution Technicians in the field. This information is captured on the MWM system.

The recorded units are the total number of reactive fire hydrant flushing jobs plus the count of flushing MST's active on the Ellipse system, minus those flushing MST's which have not been performed a minimum of once in the report year. This has been converted from units to km using a revised factor of 0.317km per flushing.
(See Methodology statement for detail).

- The 2023/4 information return is: 6994no. flushings x 0.317km per flush = 2217.09kms.

For AIR24, Maintenance Scheduled tasks (MST's), as part of the planned flushing programme, have continued to be implemented. The programme has been amended from the previous year only in that some frequencies of flushing have been reduced but locations remain generally the same. Some MSTs have been removed due to the on-going mains rehabilitation programme and others added as a consequence of repeat customer complaints or water quality sample failures.

The total length of main flushed is comparable to the average of the last 5 years figure of 2,245.97nr.

Confidence Grade B3

Although the total no. of reactive flushing jobs may contain some repeat flushings, at the same location these are considered to be minimal, and the Company considers the data collated for this line to be continually improving.

There is a notable decrease in the completed no. of reactive flushing's which may be linked to overall improvements in water quality standards and 'Calm Network' training previously completed by both Distribution Technicians and contractor's staff.

As per previous audit recommendations the number of flushings have been converted to km.

The number of flushings have been captured for the period 1st April 23 – 31st March 24 year using base information from MWM and then converted to km using the revised factor of 0.317.

Future Reporting

For AIR 25 NI Water will continue to use the established process for monthly reporting using MWM as a source for base information. The MST flushing programme is under continuous review with the addition and removal of MST's on an on-going basis and adjustments to the frequency of individual MST's. Data will continue to be collated in relation to reviewing the applied factor of 0.317km per flush.

Overall Confidence Grade = B3 as the cleaning has been exclusively carried out within C&O Directorate

Line 6 - New mains (km)

Line	Description	Units		DP	AD	AD CG	C&OD	C&OD CG	Total	Overall CG
6	New mains	km		2	78.27	A2	45.90	B3	124.17	B2

Asset Delivery

All Asset Delivery information is compiled from Asset Delivery contract management information monthly returns. This is an accurate measurement of the actual lengths of water mains laid, renovated or replaced, compiled from contractor's on-site records and joint measures with consultant site supervisors. The information is collated from each individual contract on a monthly basis and aggregated into an overall annual figure.

Total New mains calculation = 57.956km of Rehab Mains and 17.797 from Non rehab Strategic mains and 2.52km of distribution mains laid alongside strategic mains = New Total 78.273km.

Asset Delivery Confidence Grade is A2. This figure is obtained from Monthly Reports in CMS and aggregated into an annual return.

C&OD Networks Water

Data for the period 1st April 23 – 31st March 24 was collated by the WPL Team from the Requisition and Construction Managers (R&C Managers) based in Developer Services (DS) function. When checked and confirmed the details were transferred onto a spreadsheet managed by the Water Business Unit. This figure primarily includes data for new mains laid in new housing developments throughout the year.

C&OD Networks Water (data provided by R&C Managers within DS) is the sole contributor for new mains laid in new housing developments.
This figure of 45.90km is comparable to the 5-year average figure of 55.41.

C&OD Networks Confidence Grade is B2. This figure is comparable to the average of the last 5 years.

Future Reporting
For AIR 25 the WPL Team will continue to use the established process for monthly reporting using MWM as a source for base information.

The Overall Line Confidence Grade is B2 -This figure is arrived at by considering that the AD total is similar to the C&OD total. It is reasonable therefore to state that the CG assessment can be considered to be B2.

Line 6a: Total Length of new, renewed or relined Mains (km)

Line	Description	Units	DP	AD	AD CG	C&OD	C&OD CG	Total	Overall CG
6a	New renewed or relined mains	km	2	147.68	A2	46.42	B2	194.10	A2

This is the calculated sum of Lines 2, 3 and 6 the Asset Delivery Total
A slight increase of around 2.5 % on last year, so broadly similar output

Overall Line Confidence Grade is A2 as CSD contribution is around 30% of the AD total, therefore the A2 Confidence Grade predominates.

Line 6b - Length of new, renewed or relined mains delivered under the Water Main Rehabilitation Programme (km)

Line	Description	Units	DP	AD	AD CG	Total	Overall CG
6b	New renewed or relined mains under WMRP	km	2	127.37	A2	127.37	**A2**

AD has continued its method of reporting on new mains in line 6 to comply with the Regulator's Annual Information Return reporting requirements and definitions manual.

The figure of 127.37km is derived from the Asset Delivery totals Watermains Rehab of 69.411km of rehabilitated Watermains Rehab plus 57.956km of new mains. (Relining was not utilised as a watermains rehabilitation technique during this period.)
The total increase from Year 1 to Year 2 was 20% and from year 2 to Year 3 was around 3%
This total is still below the *average* annual PC21 target of 139.7km

Overall Line Confidence Grade is A2 as the Asset Delivery Team are the only contributors to this line.

Line 7 - Mains abandoned and other changes (km)

Line	Description	Units	DP	AD	AD CG	C&O D	C&OD CG	Total	Overall CG
7	Mains abandoned and Other Changes	Km	2	138.88	A2	0.16	B3	139.04	A2

Asset Delivery

The total of Abandoned Mains in this period = 138.882 from CPMR Sheet total,
Add in the 0.16km from the C & OD Team = 139.04km
Asset Delivery Confidence Grade is A2.

C&OD Networks Water

Data for 1st April 23 – 31st March 24 was collated by Field Managers, confirmed and input to a spreadsheet managed by the Reservoir Safety and Compliance Unit who collate the data for the annual reporting period.
Asset Delivery Function is again the primary contributor to this information, but Networks Water will continue to have a minimal input where appropriate.

Confidence Grade: B3

Continuing discussion and guidance will be on-going for the relevant Field Managers when providing this information.

Future Reporting

For AIR 24 Networks Water will continue to develop the established process for monthly reporting using MWM as a source for base information.
C&OD Networks Water Confidence Grade is B3.

The Overall Line Confidence Grade is A2 as the vast majority , of this return is from Asset Delivery

Line 8a: Lead Communication pipes replaced – as a consequence of water quality sample failures (no.)

Line	Description	Units	C&OD	Total	Overall CG
8a	Lead Communications Pipes replaced as consequence of WQ Sample Failures	Nr	25	25	B2

Data for the reporting period 1st April 23 – 31st March 24 was collated using system reports by Requisition and Construction Managers based in Developer Services Function. The details, when checked and confirmed, were input onto a spreadsheet. This is managed by The Reservoir Safety and Compliance Unit, on behalf of The Customer and Operations Directorate (C &OD), which collates the data for the annual reporting period.

Scientific Services section also hold records of addresses where water quality samples have failed in relation to lead content. The 5-year average for this is 21nr.

The continuing high level of water quality standards is resulting in the ability to reduce lead communication pipes remaining in the network. Sample locations are also random which means that areas where lead may still be prevalent can be underrepresented.

Future Reporting

For AIR 24, Networks Water will continue to use the refined definitions for Lead Communication Pipe replacements for monthly reporting using both MWM as a source for base information and Scientific Services records.

Overall Line Confidence Grade is B2.

Comment – This figure continues to be minimal compared to the figures submitted for Line 8b.

Line 8b - Lead Communication pipes replaced – as a consequence of customers replacing their lead supply pipe (no.)

Line	Description	Units	C&OD	Total	Overall CG
8b	Lead Communications Pipes replaced as consequence of Customers notifying of supply pipe change	Nr	422	422	B2

Data for the reporting period 1st April 23 – 31st March 24 was collated using system reports by Requisition and Construction Managers (R&C Managers) based in Developer Services (DS) Function. When checked and confirmed the details were transferred onto a spreadsheet managed by the Reservoir Safety and Compliance Unit WPL Team.

Confidence Grade: B2

This figure is comparable to the 5-year average figure of 441 nr per year but there is no set target for this line as it is customer driven.

Future Reporting

For AIR 24 Networks Water will continue to use the refined definitions for Lead Communication Pipe replacements for monthly reporting using MWM as a source for base information.

There is no set target for this line. These relatively small figures each year can easily fluctuate as the replacements counted here are opportunistic so there is no significance to this annual change.
Overall Confidence Grade is B2 as the return is exclusively from CSD.

Line 8c - Lead Communication Pipes replaced – Opportunistic (no.)

Line	Description	Units	AD	AD CG	C&OD	C&OD CG	Total	Overall CG
8c	Opportunistic Lead Communications Pipes replaced	Nr	73	A2	51	B3	124	B3

Asset Delivery

These are Lead Comms pipes which have been encountered while replacing watermains and which have been replaced by plastic pipes.

C&OD Networks Water

Data for the reporting period 1st April 23 – 31st March 24 was collated by the Reservoir Safety and Compliance Unit Business Unit using MWM system reports run on a monthly basis by Field Manager area for selected Standard Jobs. When checked and confirmed the data was

input onto a spreadsheet managed by the Water Business Unit. This figure is comparable to the average 5-year figure of 40nr.

Confidence Grade: B3

This figure is up slightly in comparison to the 5 year average figure of 40nr. These numbers are however small and therefore this does not indicate a significant trend. It remains problematic when analysing some Work Orders to ascertain if a full communication pipe replacement has taken place and if lead was a factor. This is generally dependent on the repair crew adding suitable closure comments or on comments provided by the initiator of the job. There are varying degrees of accuracy and detail across different Field Manager areas.

Future Reporting

For AIR 24 Networks Water will continue to use the established process for monthly reporting using MWM as a source for base information.

Overall Line Confidence Grade is B3 using the CSD figure of B3 due to the Zero return from the AD Team

Line 8d - Lead Communication pipes replaced – Proactive lead replacement programme (no.)

Line	Description	Units	AD	Total	Overall CG
8d	Lead Communications Pipes replaced under proactive programme	Nr	2,016	2,016	A2

Overall Confidence Grade is A2 due to the fact that all of this data was sourced from the Asset Delivery Team whose CG is A2 for this line. This output figure is an accurate representation of this activity as it is a proactive Project focused on replacing a number of lead communications pipes in defined areas.

The average PC 21 target per year is = 1,844 x 3 (years) = 5,532nr
The PC21 Running Total is 5,783nr therefore we are on target .

Line 9 - Total Lead Communication Pipes Replaced – Sum of 8a, 8b, 8c and 8d (no.)

Line	Description	Units	AD	AD CG	C&OD	C&OD CG	Total	Overall CG
9	TOTAL Lead Communications Pipes replaced	Nr	2,089	A2	498	B2	2,587	A2

Asset Delivery

This is the calculated sum of Lines 8a, 8b, 8c and 8d
Asset Delivery Water Confidence Grade is A2.

C&OD Networks Water

This is the calculated sum of Lines 8a, 8b, 8c and 8d
Calculation = 498
This figure has decreased this year and is primarily linked to the figures provided for line 8b.

Future Reporting

For AIR 24 Networks Water will continue to use the established process for monthly reporting using MWM as a source for base information.

C&OD Networks Water Confidence Grade is B2.

Overall Line Confidence Grade is A2, as approx. 80% of this return is from the Asset Delivery Team.

Line 10 - Communication pipes replaced – other (no.)

Number of communication pipes (all types of materials but excluding lead) replaced for other reasons (e.g. at the customer's request or due to Rehab of the watermain)

Line	Description	Units	AD	AD CG	C&OD	C&OD CG	Total	Overall CG
10	Communications Pipes replaced (other)	Nr	2,320	A2	1191	**B3**	3,511	A2

Asset Delivery

This data comes from the summary data collected monthly in the NI Water CPMR System, for the period April 2023 to March 2024, (which are submitted/compiled monthly by the Asset Delivery Team

C&OD Networks Water

Data for the reporting period 1st April 23 – 31st March 24 was collated by the Reservoir Safety and Compliance Unit Business Unit using MWM system reports run on a monthly basis by Field Manager area for selected Standard Jobs. When checked and confirmed, the data was input onto a spreadsheet managed by the Team.

Confidence Grade: B3

The total Network Team figure of 1,191 is comparable to two of the last 5 years returns but a bit lower than the average for the last 5 years of 1,624nr. It remains problematic when analysing some Work Orders whether or not a full communication pipe replacement has been carried out or only a localised burst service repair completed. This is generally dependent on the repair crew adding suitable closure comments or on comments provided by the initiator of the job. The level of accuracy and detail provided varies by Field Manager area, however some repair crews over the last number of months, have been changing the completed standard job from replace Comms. Pipe to the accurate standard job for the actual repair carried out. Going forward, this will help to somewhat improve the accuracy of the activity carried out.

Future Reporting

For AIR 25 Networks Water will continue to use the established process for monthly reporting using MWM as a source for base information.

C&OD Networks Water Confidence Grade is B3.

Overall Confidence Line Grade is A2 as approximately 60% of this return comes from the Asset Delivery Team

Line 11 - Mains bursts per 1,000km

The specified unit for Line 11 is Mains Bursts per 1,000km. NIW do not currently record Mains Bursts per 1000km but record the actual number of Mains Bursts Repairs carried out. Detailed data for the reporting period April 23 – March 24 was collated using MWM system reports which when checked and confirmed were transferred onto a summary spreadsheet. Several repairs attributable to third party damage have also been extracted from the final total. The total no. of mains bursts repairs for Networks Water was then converted to bursts per 1,000km.

Calculation of Mains Bursts per 1,000km

Total Burst Mains divided by Total length of mains multiplied by 1,000
2288 – 12 (re-chargeables) / 27215.43 = 0.0826 x 1,000 = 83.6
Total Bursts per 1,000km = 83.6

2020 information return is 2,237 (inc. 26 no. re-chargeables)
2021 information return is 2,400 (inc. 29 no. re-chargeables)
2022 information return is 2,498 (inc.10 no. re-chargeables)
2023 information return is 2,513 (inc.17 no. re-chargeables)
2024 information return is 2,288 (inc.12 no. re-chargeables)

Proportion of bursts within line 11 detected by proactive methods

The total number of Mains Repairs carried out by the Water Production Line (Networks Water) was 2,288 (including 12 no. due to third party damage).

The number of mains repairs carried out due to non-proactive leakage detection methods was 1063.

The number of mains repairs carried out due to proactive leakage detection methods was 1225.

Confidence Grade B3

Networks Water, within the Water Production Line, underwent some re-organisational change in early June 2019 but this has not impacted data capture methodologies or technical processes when collating the required information.

Burst Numbers Summary Table	AIR19	AIR20	AIR21	AIR22	AIR23	AIR24	Percentage changes	
							AIR22 to AIR23	AIR23 to AIR24
CSD Networks Water (non-proactive detection)	1451	1186	1268	1353	1371	1063	1.3%	-22.5%
CSD Networks Water (proactive detection)	1111	1051	1132	1145	1142	1225	-0.3%	7.3%
Third party damage	95	26	29	10	17	12	70.0%	-29.4%
Total	2467	2211	2371	2488	2496	2276	0.3%	-8.8%
Burst rate per 1000km	91.5	81.9	87.8	91.8	92	83.6	0.2%	-9.1%

The number of bursts for Networks Water has been captured for the complete year using base information monthly from MWM reporting systems. In conjunction with burst flag reports, taken from the CAR2Map database, individual Work Orders have been analysed and duplicates and non-mains repairs extracted. This year's burst rate figure has dropped since the AIR 23 figure and is lower than the average figure for the last five-year reporting

period (AIR19 to AIR23) i.e., 89.0. The following comments continue to be positive factors in relation to burst main repair numbers:

- Mains rehabilitation schemes continue to have a positive impact in reducing the no. of defects with older iron mains being replaced.
- Pressure Management Schemes in targeted areas including new installations, replacements, and the relocation of pressure reducing / sustaining valves.
- Continuing detail has been paid to the classification of mains repairs as opposed to communication pipe repairs or replacements.
-

The number of mains repairs due to non-proactive reported bursts has dropped this year, whereas number of mains repairs due to proactive leakage detection, has increased slightly since the AIR 23 reporting period. The drop in non-leakage reported burst mains repairs will primarily be down to there being no prolonged cold spells in this reporting period, unlike the AIR 23 reporting period, which had prolonged cold spells throughout December and January in particular.

The number of mains repairs due to proactive leakage detection methods has increased slightly in comparison with the last five years' average figure from AIR 19 onwards (1116 no.), however the change is negligible and there has been continued emphasis on proactive leakage detection by 'In House' Crews.

There has been a slight decrease in the number of repairs attributable to Third Party Damage (12 no.), compared the 2023 figure, which was 17, but the figures are comparable to the figures for the previous five years. The reasons that the figure for these remain quite low are unclear and are difficult for NI Water to manage as the figure is dependent on both contractors admitting liability and front-line operatives initiating the re-chargeable process.

Unplanned, Unwarned Interruptions.

Comparison of Burst Rate *(T11: L11) and* Unplanned Interruptions >3hrs *(T2: L5)*

The **Table 11: Line 11** outturn number of bursts per 1,000 km of mains and **Table 2: Line 5** outturn number of properties affected by unplanned interruptions >3hrs are closely related as the majority of unplanned interruptions are caused by bursts. However, the trends for these two measures will not necessarily be the same because some properties will experience an interruption of 3 hours or less as the result of a burst main event and their numbers will not contribute to the regulatory return which is based only on interruptions lasting more than 3 hours.

The following table lists the outturn numbers of **bursts** for the last three years, including and excluding the impact of extreme or uncommon events.

Bursts	**2021/22**	**2022/23 inc. Freeze/ Thaw**	***2022/23 exc. Freeze/ Thaw***	**2023/24**
Bursts (nr)	2,498	2,513	*2,312**	2,276
Difference	+98	+15	*-186*	-63
% Difference	+4.1%	+0.6%	*-7.4%*	-2.7%
Trend	Increase	No Change	*Decrease*	Decrease

**Excludes an estimated 201 bursts associated with Freeze/Thaw in December* 2022

The following table lists the outturn numbers of **properties affected by unplanned interruptions >3hrs** for the last three years, including and excluding the impact of extreme or atypical events.

Unplanned >3hrs	**2021/22 inc. Dunore TM burst**	***2021/22 exc. Dunore TM burst***	**2022/23**	**2023/24 inc. Westland SR valve fault**	***2023/24 exc. Westland SR valve fault***
Properties (nr)	35,321	*21,859**	15,495	14,654	*9,884***
Difference	+10,878	*-2,584*	-6,364	-841	*-5,611*
% Difference	+44.5%	*-10.6%*	-29.1%	-5.4%	*-36.2%*
Trend	Increase	*Decrease*	Decrease	Decrease	*Decrease*

**Excludes 13,462 properties affected by Dunore pumping main burst in July 2021*
***Excludes 4,770 properties affected by Westland SR valve fault in August 2023*

When the affected property outturns for 2022/23 and 2023/24 are compared, including an adjustment for an incident involving a valve fault at Westland Service Reservoir in August 2023, the figures confirm that 5,611 fewer properties were affected in the last year, a reduction of 36.2%. As the burst rate trend would suggest only a decrease of 2.7%, the uncharacteristically high reduction in property outturn requires explanation.

The reduction is an indication that the average duration of unplanned interruption has reduced, with more interruptions now lasting 3 hours or less and fewer properties contributing to the regulatory return as a result. This reduction has been achieved through changes in the way that bursts are managed. Whenever possible, NI Water will use rezoning techniques to keep its customers in supply. This means that for many customers, the impact from a burst will be minimal. However, NI Water has a large rural network and re-zoning opportunities are sometimes limited. When re-zoning isn't an option, the Company now uses Mobile Booster Trailers to keep customers in supply and to greatly reduce the amount of time that customers are out of supply. The trailers can be taken to the location of bursts and are used to maintain water pressures while repairs are being carried out.

NI Water's **ITS Strategy** is focussed on improving DG3 performance and reducing the Average Minutes of Lost Supply per Connected Property. As part of the work being undertaken, the Company has engaged with other companies with a similar population size and dispersal to develop a better understanding of the technologies and techniques employed to deal with bursts and has invested in these areas.
The Company also continues to invest in the proactive rehabilitation of its water main infrastructure, reducing the likelihood of bursts occurring on older parts of the network and in areas where issues have arisen in the past. Key elements of the ITS Strategy are summarised below.

- **Capital Investment in Watermains**
- **Post-Interruption Reviews (PIRs)**
- **Working Differently**
- **SMART Network**
- **CALM Network**

NI Water now has a designated Alternative Water Supplies team responsible for maintaining supply to customers during major incidents. AWS includes the management of tankering operations and in more extreme cases, the deployment of static tanks and the distribution of bottled water. By tankering directly into service reservoirs where levels are falling, depletion issues can be avoided and customers continue to receive water from their taps. Having a designated AWS team enables water supply and distribution staff to remain focused on their normal task of restoring supply to the network.

Future Reporting

For AIR 25 Networks Water will continue to use the established process for monthly reporting using MWM systems as a source for base information.

Line 12 - Total length of mains on 31st March

This figure has been extracted from the Corporate Asset Register.
There has been a small change to the structure of the data reported on this year. A new mains type has been added to the data structure (strategic distribution) which required changes to the query to ensure it was still counted in the calculations.
The confidence grade of the data will remain the same as the previous year. There has been no deterioration in data quality since the previous AIR submission. Any new data will have adhered to the NIW Code of Practice for the submission of asset data ensuring that data quality levels have been maintained throughout the year.

This figure has not been calculated from Lines 1, 2, 6 and 7, it has been extracted using the process outlined in the methodology using data extracted from the Corporate Asset Register.

Lines 18 - 21 - Drinking Water Compliance

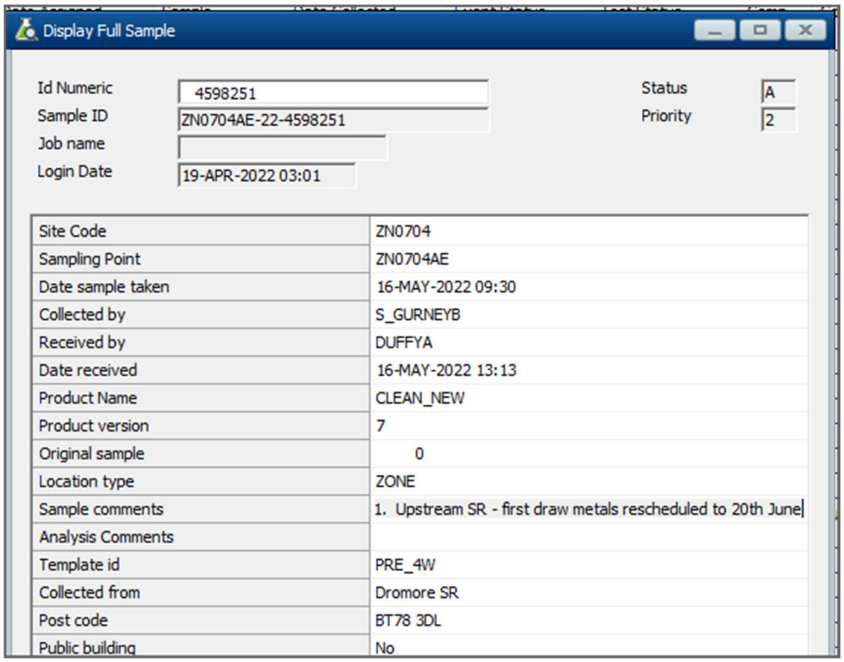
Please note, that due to customer tap samples being collected to a large extent at upstream service reservoirs, we experienced a lower level of exceedances from 2020 to 2022 compared to years prior to 2020. In particular, this affected Iron exceedances, as the sample points being used were being routinely flushed as part of the regulatory weekly sampling at service reservoirs.

Even after we resumed sampling at customer tap, on very many occasions the samplers were unable to gain access, so had to again take the sample at an upstream service reservoir, so again those tests had to be rescheduled. This led to issues with first draw tests needing to be rescheduled, as these tests are unrepresentative if not collected at the customer tap

Year	Site Code	Sample Point Name	Parameter	Date	Target
2022	ZN0704	Lough Bradan Drumquin Zone Audit Random Sample Point	Lead	14/02/2022	8
2022	ZN0704	Lough Bradan Drumquin Zone Audit Random Sample Point	Lead	28/03/2022	8
2022	ZN0704	Lough Bradan Drumquin Zone Audit Random Sample Point	Lead	16/05/2022	8
2022	ZN0704	Lough Bradan Drumquin Zone Audit Random Sample Point	Lead	27/06/2022	8
2022	ZN0704	Lough Bradan Drumquin Zone Audit Random Sample Point	Lead	15/08/2022	8
2022	ZN0704	Lough Bradan Drumquin Zone Audit Random Sample Point	Lead	26/09/2022	8
2022	ZN0704	Lough Bradan Drumquin Zone Audit Random Sample Point	Lead	14/11/2022	8
2022	ZN0704	Lough Bradan Drumquin Zone Audit Random Sample Point	Lead	12/12/2022	8

For example, the first draw test highlighted above scheduled for 16th May had to be rescheduled to 20th June as the sampler could not gain access to the randomly selected address.

The full sample comment is "*No access Nos. 34, 58, 71. Upstream SR - first draw metals rescheduled to 20th June*".



As such, the compliance assessments during the COVID-19 pandemic should not be compared with as rigorous a scrutiny against pre and post pandemic compliance assessments with regard to trend analysis. The affected years have been highlighted below as greyed out.

Results from NIW Alpha assets are included in the overall compliance with drinking water regulations and at customer tap, as certain parameters are analysed at these assets as "Supply Point Parameters", where they may be analysed either at customer tap or at an upstream authorised supply point. As such, they cannot be separated from the pure NI Water assets for compliance assessment. In addition to this, the compliance assessment is for Northern Ireland as a whole, and not only the areas supplied by NI Water only.

The compliance calculations below are now calculated automatically and provided online in a Power BI report – DWI / NIW Drinking Water Quality

Line 18 - % Overall compliance with drinking water regulations

NI Water is assessed for its overall performance by % Overall Compliance at customer tap, WTWs, SRs, and Authorised Supply Points. Under this measurement method, there has been a plateauing in compliance over the last number of years, against a Utility Regulator specified target of 99.83%. Please note that water supplied from NIW Alpha assets is included in the compliance assessment. **This figure has been affected as discussed above, by not sampling all zone samples at customer taps during the COVID-19 period. The affected years are struck through.**

Reporting Year	2015	2016	2017	2018	2019	2020	2021	2022	2023
% Overall Compliance	99.83	99.86	99.88	99.90	99.90	~~99.94~~	~~99.89~~	99.91	99.92

Line 19 - % Compliance at consumers tap (including supply points)

NI Water is assessed for its overall performance by % Compliance at customer tap including authorised supply points. Please note that water supplied from NIW Alpha assets is included in the compliance assessment. **This figure has been affected as discussed above, by not sampling all zone samples at customer taps during the COVID-19 period. The affected years are struck through.**

Reporting Year	2015	2016	2017	2018	2019	2020	2021	2022	2023
% Compliance at consumer tap (including supply points)	99.74	99.77	99.81	99.83	99.84	~~99.91~~	~~99.82~~	99.88	99.88

As the root data used for the derivation of these lines is accurate, but there is an inherent uncertainty in any non-bacteriological analytical measurement, the confidence grade should be reported as A2.

Line 20 - % Iron compliance at consumers tap

This figure has been affected as discussed above, by not sampling all zone samples at customer taps during the COVID-19 period. The affected years are struck through.

During 2022, although we officially returned to sampling at customer taps in mid-March, many samples continued to be sampled at an upstream service reservoir due to lack of access to customer properties. This led to a slightly higher Iron compliance than would otherwise have been expected, as the sample points being used were being routinely flushed as part of the regulatory weekly sampling at service reservoirs.

During 2023 however, all samples were collected as normal.

Reporting Year	2015	2016	2017	2018	2019	2020	2021	2022	2023
% Iron compliance at consumer tap	98.40	98.66	98.85	98.94	98.89	~~99.56~~	~~99.35~~	99.15	99.71

As the root data used for the derivation of these lines is accurate, but there is an inherent uncertainty in any non-bacteriological analytical measurement, the confidence grade should be reported as A2.

Line 21 - % Service reservoirs with coliforms in >5% samples

NI Water has continued to report 0 for this metric, having had 0 service reservoirs with >5% exceedances over the last number of years. There is an ongoing service reservoir cleaning programme to maintain this.

As the root data used for the derivation of these lines is accurate and the bacteriological analysis shows no presence of coliforms in >5% of samples, the confidence grade should be reported as A1.

For 2023, all PC21 targets were met.

Lines 22-24 – Nominated Water Service Outputs

Refer to Table 40a for detailed commentary on these lines.

Line 25 - Number of school visits

There were 219 schools visited (in-person) during this reporting period. This figure exceeds the annual PC21 target of 176 for School Visits, with an overall total target of 1056 for the duration of the six-year term.

Line 26 - Number of other education events

There were 78 other education events attended (in-person) during this reporting period. The PC21 target of Other Education Events is 57 per annum, with an overall target of 342 for the duration of this six-year term.

Line 27 – Number of catchments where management plan recommendations have been implemented

All 23 live drinking water catchments had a Catchment Management Plan (CMP) implemented in PC15.

These 23 CMPs were then prioritised down to a figure of 20 prior to PC21, after a prioritisation exercise was carried out by RPS. Prioritisation was carried out to ensure best use of resource in the PC21 period, in catchments were pressures and threats exist. This prioritisation report and associated catchment specific measures ('recommendations') then informed the PC21 SCaMP Business Case (appendix 4B specifically) and SCaMP work programme.

Targets for the number of catchments where management plan recommendations (measures) have been implemented in PC21 period are below:

PC21					
2021-22	**2022-23**	**2023-24**	**2024-25**	**2025-26**	**2026-27**
0	**3**	4	5	5	3

In the 2023-24 period, 4 catchments had all management plan recommendations completed, meeting the target of 4. These catchments are Carmoney, Derg, Ballinrees and Caugh Hill.

There are other catchment management recommendations/measures underway/ongoing in other catchments but are not yet fully completed and are not counted towards 2023-24 targets.

Line 28 - Number of treatability studies completed

The reported number of treatability studies completed in PC21 is 1 (No change from AIR23). This is based on studies completed to date in PC21 with outcomes available to inform the PC27 submission as per the reporters' requirements.

This is seven less than indicated in the Treatability Studies Completed Programme submitted in AIR23. The delays are as consequence of two main issues. The first relates to the time required and associated staff availability to complete the reports, once the pilot work has been completed on-site. There are currently three sites for which treatability pilots have been completed on-site for some time, however the reports for these are still awaiting completion. NI Water has recently addressed these delays with additional support procured. The second issue relates to delays caused by longer than anticipated timescales for the mobilisation and demobilisation of pilot plants. It can take a number of weeks for both activities which has added to the overall time scale required for delivery.

As a consequence of the delays, there have been some proposed amendments to the overall treatability programme with a summary in Table 1 below and further detail in Table 2. As part of the original PC21 proposed program NI Water had identified that 12 treatability studies would be completed in time to inform the PC27 submission. Following the latest review, it is now anticipated that only 9 treatability studies will be completed in time to inform the submission. It is planned that another two treatability studies will be completed in PC21 but not in time to inform the submission and these will likely form part any PC27 Mid-Term Review.

The amended program has been agreed via the NI Water WTW Treatability Group which assesses the performance of the various WTWs including outputs from the Drinking Water Inspectorate/NI Water Compliance meetings and Drinking Water Safety Plans.

NI Water has submitted the current pilot program to DWI through the DWI/NIW compliance programme meeting and they are supportive of the approach being adopted. NI Water update UR on annual basis on the treatability program through the Table 11 Line 28 submission.

Table 1 – Treatability Studies Summary

Output		2021-22	2022-23	2023-24	2024-25	2025-26	2026-27
Number of treatability studies completed	**PC21 Proposed Programme**	0	0	0	12	0	0
	AIR23 Programme	0	**1**	7	3	1	0
	Current Programme	0	**1**	0	5	3	0

Table 2 – Current Pilot Program

WTWs Name	Year	Primary Reason	Outcomes available to inform:			Status	Update from AIR23
			PC21	PC27 Submission	PC27 MTR		
Carmoney	2022/23	[redacted]		Y		Delayed	Treatability Pilot Study complete on site. Draft report completed but to be reviewed before sign-off.
Drumaroad	2022/23	[redacted]	Y			Complete	Treatability Pilot Study and associated report complete and approved. Please note not claimed as treatability study output as informs

WTWs Name	Year	Primary Reason	Outcomes available to inform:			Status	Update from AIR23
			PC21	PC27 Submission	PC27 MTR		
							PC21 & PC27 as per guidance.
Dungonnell	2022/23	[redacted]		Y		Delayed	Treatability Pilot Study complete on site but awaiting completion of report. Should be available by October 24.
Altnahinch	2022/23	[redacted]		Y		Delayed	Treatability Pilot Study complete on site but awaiting completion of report. Should be available by October 24.
Castor Bay	2023/24	[redacted]		Y		Delayed	Treatability Pilot Study currently on-going. Due to complete on-site September 24 with report to follow.
Fofanny	PC27	[redacted]			Y	Deferred PC27	Following a review due to funding restraints the pilot study for this site has been deferred to PC27.
Dunore Point	2025/26	[redacted]		Y		Planned	The treatability study for this site was originally planned for 2023 but now planned for 2025. This is due to delays caused by longer than anticipated

WTWs Name	Year	Primary Reason	Outcomes available to inform:			Status	Update from AIR23
			PC21	PC27 Submission	PC27 MTR		
		[redacted]					timescales for the mobilisation and demobilisation of pilot plants.
Killyhevlin	2023/24	[redacted]		Y		Delayed	Treatability Pilot Study currently on-going. Due to complete on-site June 24 with report to follow.
Lough Bradan	2026/27	[redacted]			Y	Planned	The treatability study for this site was originally planned for 2023 but now planned for 2026 due to a reprioritisation of pilot study needs.
Camlough	N/A	[redacted]				N/A	Following outputs from the current Draft Water Resource & Supply Resilience Plan there is no requirement to bring Camlough back into operation and therefore study is no longer required..
Lough Fea (Phase 1)	2022/23	[redacted]		Y		Complete	The treatability study for this site was originally planned for 2024 but was brought forward to support groundwater testing that was carried out in the

WTWs Name	Year	Primary Reason	Outcomes available to inform:			Status	Update from AIR23
			PC21	PC27 Submission	PC27 MTR		
							vicinity of the WTWs as part Water Resource Optioneering
Clay Lake	2025/26	[redacted]			Y	Deferred PC27	Following a review due to funding restraints the pilot study for this site has been deferred to PC27.
Killylane	2025/26	[redacted]			Y	Planned	The treatability study for this site was originally planned for 2024 but now planned for 2025. This is due to delays caused by longer than anticipated timescales for the mobilisation and demobilisation of pilot plants.
Moyola	2023/24	[redacted]		Y		Delayed	Treatability Pilot Study currently on-going. Due to complete on-site March 25 with report to follow.
Carran Hill	PC27	[redacted]			Y	Deferred PC27	Following a review due to funding restraints the pilot study for this site has been deferred to PC27.

WTWs Name	Year	Primary Reason	Outcomes available to inform:			Status	Update from AIR23
			PC21	PC27 Submission	PC27 MTR		
Caugh Hill	2023/24	[redacted]		Y		Delayed	Treatability Pilot Study currently on-going. Due to complete on-site December 24 with report to follow.
Lough Fea (Phase 2)	25/26	[redacted]		N/A		Planned	This is a new addition to the list from previous. Please note not to be claimed as treatability study output as Lough Fea Phase 1 already claimed.

Lines 29-36 - Water Models

All of the InfoWorks WS Pro hydraulic models are constructed in adherence to NI Water's Clean Water Network Modelling Model Build Specification. This document outlines the specific requirements of All Mains Hydraulic Network Models for NI Water. The purpose of the documentation is to standardise the methodology and reporting procedures for all future studies and to ensure that both internal and external resources adopt a consistent approach, utilising the latest industry good practise to maximise the benefits and cost effectiveness of the modelling programme.

The hydraulic models are rebuilt and kept up to date so they can be used as a tool to help identify network performance problems and develop best value solutions which improve the customers' levels of service. The hydraulic models are currently being used to develop schemes for the Water Mains Rehabilitation programme, determine the impact of new developments, resolve DG2 low pressure problems, verify DG3 figures for Interruption to Supply (ITS) events and support major incidents.

The hydraulic models have aided the completion of 56 Water Impact Assessments throughout the reporting year, the models were utilised to ensure provision of an adequate supply of water for a newly proposed development without causing an adverse impact on the existing network. An example of interventions outlined through model optioneering are 'local rezone' / 'extension of an existing HPPE watermain'.

The hydraulic models are also being used to plan network improvements, inform robust investment decisions and support operational decision making. The model library is continually enhanced to improve coverage across the entire network so that the models can be used as a valuable support tool.

NI Water's current clean water model library contains 18 hydraulic models which have been built in InfoWorks WS Pro and 16 converted models (from Aquis into InfoWorks WS Pro), of the 16 converted models 12 are currently undergoing model build (Status Ongoing) and 5 of are deemed future builds (Status Not Started) – of the 5 models not started there a 4 converted models. There has never been a model built historically for Rathlin Island.

Model Name	**Model status**	**Issued**	**Calibrated** *(midpoint of calibration dates)*	**Completed**	**Time to complete Model (Months)**	**Age Of Model (Years)**
Altnahinch Bushmills	Completed	17/11/2021	19/04/2022	05/03/2024	27	1.00
Ballinrees Coleraine	Completed	24/11/2020	29/10/2021	12/02/2024	38	2.00
Ballinrees Limavady	Ongoing	21/12/2021	N/A	N/A	N/A	N/A
Ballymena	Completed	24/11/2020	03/05/2021	13/08/2022	20	2.00
Ballywonard	Not started	N/A	N/A	N/A	N/A	N/A
Camlough Newry West	Completed	28/06/2018	14/05/2019	06/01/2021	30	4.00
Carmoney Eglinton	Ongoing	04/08/2022	N/A	N/A	N/A	N/A
Carran Hill	Ongoing	21/12/2021	N/A	N/A	N/A	N/A
Carrickfergus	Not started	N/A	N/A	N/A	N/A	N/A
Castor Bay Dungannon	Not started	N/A	N/A	N/A	N/A	N/A
Castor Bay	Completed	26/11/2020	23/06/2021	25/10/2023	34	2.00
Caugh Hill Dungiven	Completed	24/11/2020	02/06/2021	18/10/2023	34	2.00
Clay Lake Keady	Ongoing	12/04/2023	N/A	N/A	N/A	N/A
Corrody Derry	Ongoing	04/08/2022	N/A	N/A	N/A	N/A
Derg Strabane	Completed	29/05/2018	11/07/2019	06/01/2021	31	4.00
Drumaroad Ballynahinch	Ongoing	05/08/2022	N/A	N/A	N/A	N/A
Drumaroad Bangor	Not started	N/A	N/A	N/A	N/A	N/A
Drumaroad Downpatrick	Ongoing	05/08/2022	N/A	N/A	N/A	N/A
Drumaroad Lisburn (Rural)	Completed	13/11/2019	23/09/2020	24/02/2022	27	3.00
Drumaroad Lisburn - Urban	Ongoing	05/08/2022	N/A	N/A	N/A	N/A

Model Name	Model status	Issued	Calibrated *(midpoint of calibration dates)*	Completed	Time to complete Model (Months)	Age Of Model (Years)
Drumaroad Portaferry_Ards West	Ongoing	17/11/2021	N/A	N/A	N/A	N/A
Dungonnell	Completed	24/11/2020	02/07/2021	09/05/2022	17	2.00
Dunore East (update)	Completed	13/09/2018	20/04/2021	25/02/2020	17	2.00
Dunore Point Antrim	Ongoing	21/12/2021	N/A	N/A	N/A	N/A
Foffany North	Completed	24/11/2020	12/10/2021	16/09/2022	21	2.00
Foffany South	Ongoing	17/11/2021	N/A	N/A	N/A	N/A
Forked Bridge Stoneyford	Completed	09/04/2020	27/01/2021	09/08/2021	16	3.00
Greater Belfast	Completed	09/04/2020	08/07/2020	03/12/2021	19	3.00
Killyhevlin / Enniskillen	Completed	29/05/2018	13/12/2018	26/04/2021	34	5.00
Killylane	Completed	04/06/2018	04/03/2019	26/08/2020	26	5.00
Lough Bradan	Completed	21/12/2021	31/05/2022	08/08/2023	19	1.00
Lough Fea	Completed	21/12/2021	15/08/2022	21/02/2024	26	1.00
Lough Macrory Killyclogher Omagh (update)	Completed	04/06/2018	12/06/2019	02/03/2021	32	4.00
Rathlin Island	Not started	N/A	N/A	N/A	N/A	N/A
Seagahan	Ongoing	12/04/2023	N/A	N/A	N/A	N/A

The N/As within the Model Overview Table relate to models with a status of ‘ongoing’ and/or ‘not started’. As these models do not have a Calibration Date or Completion Date the completion Time and the Age of Model cannot be calculated.

NI Water currently plan on achieving full InfoWorks model coverage of the province in Y25/26. The 5 remaining hydraulic models (Ballywonard, Carrickfergus, Drumaroad Bangor, Castor Bay Dungannon and Rathlin Island) that have not started are due to commence model built during early Y24/25. NI Water’s ambition is to have full network coverage of new InfoWorks WS Pro models by Y25/26.

7 models outlined in the table above illustrate a time of 30months + for completion of the first rebuild. 4 of these models (Camlough Newry West/Derg Strabane/Lough Macrory Killyclogher/Killyhevlin) were amongst the first round of models to be built in the new software so the longer duration for completion was down to external resources gaining familiarisation of InfoWorks Pro coinciding with a brand new Model Build Scope within NI Water. The other 3 models (Ballinress Coleraine/Castor Bay/Caugh Hill Dungiven) were delayed owing to the availability of Field Testing equipment.

The average time of completion across the 16 rebuilt models is 26 months.

Line 29 – Number of models built/rebuilt in year

During the reporting year 6 hydraulic models have been built in InfoWorks WS Pro and added to NI Water’s current model library replacing the older converted models.

Model Name	Model status	Issued	Calibrated *(midpoint of calibration dates)*	Completed	Time to complete Model (Months)	Age Of Model (Years)
Altnahinch Bushmills	Completed	17/11/2021	19/04/2022	05/03/2024	27	1.00
Lough Fea	Completed	21/12/2021	15/08/2022	21/02/2024	26	1.00
Ballinrees Coleraine	Completed	24/11/2020	29/10/2021	12/02/2024	38	2.00
Castor Bay	Completed	26/11/2020	23/06/2021	25/10/2023	34	2.00
Caugh Hill Dungiven	Completed	24/11/2020	02/06/2021	18/10/2023	34	2.00
Lough Bradan	Completed	21/12/2021	31/05/2022	08/08/2023	19	1.00

Line 29 has been given a confidence grading of A1 based on their completion date during the reporting year. Evidence is documented within NI Waters Model Build Data Servers.

Line 30 – Number of models maintained in year

There has been no model maintenance undertaken on any of the hydraulic models held within NI Water's current model library.

It is envisaged that during Y24/25 a Maintenance Methodology will be produced to document set procedures in assessing the current health of NI Water's Hydraulic Model library allowing a targeted approach to model maintenance through potential full rebuilds, partial rebuild, detailed update, minor update or transitional maintenance.
NI Water are currently assessing maintenance policies from other UK Water Companies and exploring potential pilots using AI Technology to undertake maintenance of the older models in the library. Outcomes of this will help inform the Maintenance Methodology.

Line 30 has been given a confidence grading of A1 based on no model maintenance being undertaken during the reporting year.

Line 31 – Number of models in library

There are currently 34 InfoWorks WS Pro hydraulic all-mains models within NI Water's current model library. 18 have been rebuild in InfoWorks WS Pro and 16 have been converted from old Aquis Software into InfoWorks WS Pro. Rathlin Island which has been included in the table below although does not have an existing model.

Model Name	Model status	Original Build Software
Ballinrees Limavady	Ongoing	Aquis (Now Converted into InfoWorks)
Ballywonard	Not started	Aquis (Now Converted into InfoWorks)
Carmoney Eglinton	Ongoing	Aquis (Now Converted into InfoWorks)
Carran Hill	Ongoing	Aquis (Now Converted into InfoWorks)
Carrickfergus	Not started	Aquis (Now Converted into InfoWorks)
Castor Bay Dungannon	Not started	Aquis (Now Converted into InfoWorks)
Clay Lake Keady	Ongoing	Aquis (Now Converted into InfoWorks)
Corrody Derry	Ongoing	Aquis (Now Converted into InfoWorks)
Drumaroad Ballynahinch	Ongoing	Aquis (Now Converted into InfoWorks)
Drumaroad Bangor	Not started	Aquis (Now Converted into InfoWorks)
Drumaroad Downpatrick	Ongoing	Aquis (Now Converted into InfoWorks)

Model Name	Model status	Original Build Software
Drumaroad Lisburn - Urban	Ongoing	Aquis (Now Converted into InfoWorks)
Drumaroad Portaferry_Ards West	Ongoing	Aquis (Now Converted into InfoWorks)
Dunore Point Antrim	Ongoing	Aquis (Now Converted into InfoWorks)
Foffany South	Ongoing	Aquis (Now Converted into InfoWorks)
Rathlin Island	Not started	No Model
Seagahan	Ongoing	Aquis (Now Converted into InfoWorks)
Altnahinch Bushmills	Completed	InfoWorks WS Pro
Lough Fea Moyola	Completed	InfoWorks WS Pro
Ballinrees Coleraine	Completed	InfoWorks WS Pro
Castor Bay	Completed	InfoWorks WS Pro
Caugh Hill Dungiven	Completed	InfoWorks WS Pro
Lough Bradan	Completed	InfoWorks WS Pro
Foffany North	Completed	InfoWorks WS Pro
Ballymena	Completed	InfoWorks WS Pro
Dungonnell	Completed	InfoWorks WS Pro
Drumaroad Lisburn (Rural)	Completed	InfoWorks WS Pro
Greater Belfast	Completed	InfoWorks WS Pro
Forked Bridge Stoneyford	Completed	InfoWorks WS Pro
Killyhevlin / Enniskillen	Completed	InfoWorks WS Pro
Lough Macrory Killyclogher Omagh (update)	Completed	InfoWorks WS Pro
Camlough Newry West	Completed	InfoWorks WS Pro
Derg Strabane	Completed	InfoWorks WS Pro
Killylane	Completed	InfoWorks WS Pro
Dunore East (update)	Completed	InfoWorks WS Pro

The 5 hydraulic models not started (Castor Bay Dungannon, Ballywonard, Drumaroad Bangor, Rathlin Island and Carrickfergus) are all scheduled for a full re build Y24/25. This will bring the library stock up to 35 hydraulic models once complete.

Line 31 has been given a confidence grading of A1 based on count of models within the library. Evidence is documented within NI Waters Master Library on InfoWorks WS Pro.

Line 32 – Model coverage using percentage of connected properties covered by a model

Current model coverage is 63% based on the percentage of models fully built in InfoWorks WS Pro currently held within NI Water's Model Library. Models that are undergoing a rebuild make up 25% of the coverage while the models yet to be built in InfoWorks Pro cover the remaining 12% of connected properties. The connected properties are based on the LPS Dataset 'Pointer' which covers the entire country – NI Water have no documented evidence to suggest what Pointer data is physically connected to NI Water's potable infrastructure.

Line 32 has been given a confidence grading of B3 owing to the uncertainty regarding the LPS Dataset 'Pointer'. The Pointer Dataset is not owned by NI Water and has not been cleansed or aligned with any other data sets.

Line 33 – Average age of models in the library, in years

The average age of the models in the library which have been built in InfoWorks WS Pro based on the calibration date (from) and the 31st March of the reporting year (to) is 2.6years.

Line 33 has been given a confidence grading of A1 based on actual calibration dates within each individual model. Evidence is documented within each individual within NI Waters Master Library on InfoWorks WS Pro.

Line 34 – Maximum age of models in the library, in years

The maximum age of the models in the library which have been built in InfoWorks WS Pro based on the calibration date (from) and the 31st March of the reporting year (to) is 5years (Killylane and Killyhevlin/Enniskillen).

Line 34 has been given a confidence grading of A1 based on actual calibration dates within each individual model. Evidence is documented within each individual within NI Waters Master Library on InfoWorks WS Pro.

Line 35 – Number of models in the library older than 5 years

There are 2 hydraulic models within NI Water's Model library that are older than 5 years – Killylane and Killyhevlin/Enniskillen based on the calibration date (from) and the 31st March of the reporting year.

Line 35 has been given a confidence grading of A1 based on actual calibration dates within each individual model. Evidence is documented within each individual within NI Waters Master Library on InfoWorks WS Pro.

Line 36 – Number of models in the library older than 7 years

There are no models within NI Water's Model library that are older than 7 years.
Line 36 has been given a confidence grading of A1 based on actual calibration dates within each individual model. Evidence is documented within each individual within NI Waters Master Library on InfoWorks WS Pro.

Lines 37-40 – Water Work Packages Issued for Construction

WIIM Workpackage Overview, passed to the Asset Delivery Team in 2023-2024 period

WP Name	Length (km)	Main Driver	Cost (£M)	Scheme Count
Derrylin Ballygawley Additionals WP	18	Rehab	2.0	13
Saintfield Ballynahinch Regen2 WP	28	Rehab	2.8	38
Bridge/Culvert Crossings	1	Rehab	0.2	10
Seahill Road Larne WP	2.6	Rehab	0.35	11
TOTAL	**49.6 km**		**£5.35M**	**72 Nr**

Note: In reference to the 3rd Column Above There were no DG2 (Low Pressure) or Leakage "only" Schemes Passed to the Asset Delivery Team in this reporting period.

The schemes passed to delivery were exclusively Watermains Rehabilitation (Rehab) Schemes.

- All Scheme layout outputs are held in a MapInfo table by WSP, prior to their formal release by the Strategic Asset Performance Team, to the AD Team.
- As the size of the Workpackage Polygon areas have already been agreed with the Delivery Team, the lengths and diameters of each scheme within each Workpackage Polygon that is reported here, was compiled through a MapInfo Query
- Each scheme is individually priced, as per NI Water Framework rates (forwarded to reporter on 3 June 2024) and compiled by WSP into a total Workpackage Cost Spreadsheet, resulting in the costs reported for each Workpackage above issued in this reporting period.

Watermains Rehabilitation Workpackages

Total handover Summary for Year 3 of PC21

Total length handed over to the Asset Delivery Team in AIR24 Reporting Period = **49.6km**
Estimated Cost of Schemes handed over to the Asset Delivery Team in PC21 = **£5.35M**
Total scheme count handed over to the Asset Delivery Team in PC21 = **72 nr**

Confidence Grade: A3

The costs alluded to above are necessarily "feasibility" type costs derived from the NI Water Unit Cost Matrix as the schemes are "desktop" high level designs. These costs will be refined following handover to the Delivery Team from the on-site enabling process. This enabling work will identify and further refine the detailed construction costs scheme by scheme. The confidence grading is therefore A3 as it does not reflect the final construction costs.

NORTHERN IRELAND WATER LIMITED - ANNUAL INFORMATION RETURN

ANNUAL INFORMATION RETURN - TABLE 12 NON FINANCIAL MEASURES
WATER EXPLANATORY FACTORS - (NIW Only)

	DESCRIPTION	UNITS	DP	1 NR OF SOURCES	2 PROP'N DIST INPUT	3 BULK PROP'N OF D.I.	4 REPORT YEAR	CG
				UNITS / DP	UNITS / DP	UNITS / DP		
A	SOURCE TYPES AND PUMPING			nr / 0	Prop'n (0-1) / 3	Prop'n (0-1) / 3		
1	Impounding reservoirs			22	0.761	0.000		B2
2	River abstractions			9	0.237	0.000		B2
3	Boreholes			2	0.002	0.000		B2
4	Source types and pumping; total			33	1.000	0.000		B2
5	Average pumping head - total	m.hd	1				103.9	B4

		TOTAL PROP'N OF D.I.	TOTAL NR OF WORKS
		UNITS / DP	UNITS / DP
B	TREATMENT TYPE	Prop'n (0-1) / 3	nr / 0
6	Proportion of distribution input - simple disinfection	0.000	0
7	Proportion of distribution input - W1	0.000	0
8	Proportion of distribution input - W2	0.000	0
9	Proportion of distribution input - W3	0.488	6
10	Proportion of distribution input - W4	0.512	14
11	Proportion of distribution input - total	1.000	
12	Total numbers of works		20

				BAND 1 <= 165mm	BAND 2 166 - 320mm	BAND 3 321 - 625mm	BAND 4 > 625mm
C	POTABLE MAINS						
13	Potable mains (nominal bore)	km	2	21,233.79	4,322.03	1,378.68	280.87

NORTHERN IRELAND WATER LIMITED - ANNUAL INFORMATION RETURN

ANNUAL INFORMATION RETURN - TABLE 12 NON FINANCIAL MEASURES
WATER EXPLANATORY FACTORS (PPP Only)

	DESCRIPTION	UNITS	DP	1 NR OF SOURCES	2 PROP'N DIST INPUT	3 BULK PROP'N OF D.I.	4 REPORT YEAR	CG
				UNITS / DP	UNITS / DP	UNITS / DP		
A	SOURCE TYPES AND PUMPING			nr / 0	Prop'n (0-1) / 3	Prop'n (0-1) / 3		
1	Impounding reservoirs			2	0.053	0.000		B2
2	River abstractions			4	0.947	0.000		B2
3	Boreholes			0	0.000	0.000		A1
4	Source types and pumping; total			6	1.000	0.000		A1
5	Average pumping head - total	m.hd	1				152.0	B2

	TREATMENT TYPE	TOTAL PROP'N OF D.I. UNITS / DP	TOTAL NR OF WORKS UNITS / DP
B	TREATMENT TYPE	Prop'n (0-1) / 3	nr / 0
6	Proportion of distribution input - simple disinfection	0.000	0
7	Proportion of distribution input - W1	0.000	0
8	Proportion of distribution input - W2	0.000	0
9	Proportion of distribution input - W3	0.000	0
10	Proportion of distribution input - W4	1.000	4
11	Proportion of distribution input - total	1.000	
12	Total numbers of works		4

				BAND 1 <= 165mm	BAND 2 166 - 320mm	BAND 3 321 - 625mm	BAND 4 > 625mm
C	POTABLE MAINS						
13	Potable mains (nominal bore)	km	2	0.00	0.00	16.42	0.00

NORTHERN IRELAND WATER LIMITED - ANNUAL INFORMATION RETURN

ANNUAL INFORMATION RETURN - TABLE 12 NON FINANCIAL MEASURES
WATER EXPLANATORY FACTORS - (Total)

	DESCRIPTION	UNITS	DP	1 NR OF SOURCES	2 PROP'N DIST INPUT	3 BULK PROP'N OF D.I.	4 REPORT YEAR	CG
				UNITS / DP	UNITS / DP	UNITS / DP		
A	SOURCE TYPES AND PUMPING			nr / 0	Prop'n (0-1) / 3	Prop'n (0-1) / 3		
1	Impounding reservoirs			24	0.445	0.000		B2
2	River abstractions			13	0.554	0.000		B2
3	Boreholes			2	0.001	0.000		B2
4	Source types and pumping; total			39	1.000	0.000		B2
5	Average pumping head - total	m.hd	1				128.2	B4

	B TREATMENT TYPE	TOTAL PROP'N OF D.I. UNITS / DP	TOTAL NR OF WORKS UNITS / DP
		Prop'n (0-1) / 3	nr / 0
6	Proportion of distribution input - simple disinfection	0.000	0
7	Proportion of distribution input - W1	0.000	0
8	Proportion of distribution input - W2	0.000	0
9	Proportion of distribution input - W3	0.270	6
10	Proportion of distribution input - W4	0.730	18
11	Proportion of distribution input - total	1.000	
12	Total numbers of works		24

	C POTABLE MAINS	UNITS	DP	BAND 1 <= 165mm	BAND 2 166 - 320mm	BAND 3 321 - 625mm	BAND 4 > 625mm
13	Potable mains (nominal bore)	km	2	21,233.79	4,322.03	1,395.10	280.87

Table 12 – Water Explanatory Factors

Water sources & treatment types – NI Water only

Changes to Sources since AIR23

There has been no changes to NI Water (Only) sources since AIR23. NI Water (Only) had the following 33 sources in service for part or all of AIR24, including in total: - boreholes (2nr), impounding reservoirs (22 nr), and rivers & loughs (9 nr).

Changes to treatment types since AIR23

There has been a change in the treatment types since AIR23 with four WTWs previously designated as W3 now designated as W4. These include Moneymore BH which now has Arsenic Removal, Rathlin Island WTW which now has a MIEX type process and Glenhordial and Belleek WTW both of which now have a Purafloc process to assist in pesticide removal.

For AIR24 the treatment categories are - simple disinfection (SD) (0 nr); simple disinfection plus simple physical treatment (W1) (0 nr); single stage complex physical or chemical treatment (W2) (0 nr); more than one stage of complex treatment (W3) (6 nr – a decrease of 4 from previous); more than one stage of complex treatment, capturing processes with very high operating costs (W4) (14 nr – an increase of 4 from previous).

Changes to proportional distribution input since AIR23

The Distribution Input (DI) has decreased slightly from last year. In 2022/23 the total average DI was 607.87 Ml/day, whereas in 23/24 this is 606.54 Ml/d based on the Pre Maximum Likelihood Estimation (MLE) figure.

The following table shows changes which have occurred with reference to source types and treatment types since AIR23.

Location	AIR24 Source Type	AIR 24 DI (Ml/d)	Treatment Type	WTW In Service during AIR 23	Sources In Service at 31st Mar 2023	Sources In Service at 31st Mar 2024
Moneymore Tamnadoey	Borehole	0.36	W4	Yes	Yes	Yes
Rathlin	Borehole	0.07	W4	Yes	Yes	Yes
Killylane	Imp. Reservoir	11.41	W3	Yes	Yes	Yes
Dungonnell	Imp. Reservoir	8.90	W3	Yes	Yes	Yes
Altnahinch	Imp. Reservoir	8.75	W3	Yes	Yes	Yes
Lough Fea	Imp. Reservoir (listed as a Lough for AIR15 – classified as IR in June 2015)	13.15	W3	Yes	Yes	Yes
Drumaroad	2No Imp. Reservoirs (Ben Crom IR & Silent Valley IR)	102.21	W3	Yes	Yes - 2No. sources	Yes - 2No. sources

Location	AIR24 Source Type	AIR 24 DI (Ml/d)	Treatment Type	WTW In Service during AIR 23	Sources In Service at 31st Mar 2023	Sources In Service at 31st Mar 2024
Caugh Hill	Imp. Reservoir - Altnaheglish IR & River (Glenedra)	19.09	W3	Yes	Yes – 2No. sources	Yes – 2No. sources
Glenhordial	Imp. Reservoir	4.00	W4	Yes	Yes	Yes
Lough Bradan	2 No - Lough Bradan Imp. Reservoir, and Lough Lee	8.09	W4	Yes	Yes - 2No sources	Yes - 2No sources
Dorisland	7No Imp. Reservoirs – (Dorisland IR, Lough Mourne IR, Copeland IR, Lower South Woodburn IR, Upper South Woodburn IR, Middle South Woodburn IR and North Woodburn IR)	24.64	W4	Yes	Yes - 7No. sources	Yes - 7No. sources
Lough Macrory	1No Imp. Reservoir & 1No Lough (Lough Fingrean IR & Lough Macrory-Lough	10.92	W4	Yes	Yes - 2No. sources	Yes - 2No. sources
Clay Lake	Imp. Reservoir	4.09	W4	Yes	Yes	Yes
Fofanny	3No Imp. Reservoir (Lough Island Reavey, Fofanny, Spelga)	36.70	W4	Yes	Yes – 3No. sources	Yes – 3No. sources
Seagahan	Imp. Reservoir	10.59	W4	Yes	Yes	Yes
Killyhevlin	Lough	27.40	W4	Yes	Yes	Yes
Carran Hill	Lough	5.81	W4	Yes	Yes	Yes
Belleek	Lough	1.47	W4	Yes	Yes	Yes
Carmoney	River	19.06	W4	Yes	Yes	Yes

Location	AIR24 Source Type	AIR 24 DI (Ml/d)	Treatment Type	WTW In Service during AIR 23	Sources In Service at 31st Mar 2023	Sources In Service at 31st Mar 2024
Derg	River	18.52	W4	Yes	Yes– 2No sources (River Strule introduced April 2016, and River Derg)	Yes– 2No sources
			Total	**20**	**33**	**33**

With ref to the UR's Guidance the following table identifies the proportion of water taken from Lough Neagh (which is classified as a 'River Abstraction' source) within Block A and B of Table 12:

Table 12 Block	Proportion of water extracted from Lough Neagh - NIW Only	Proportion of water extracted from Lough Neagh – PPP Only	Proportion of water extracted from Lough Neagh - Total
A	0%	0.895	0.401
B – with reference to Treatment Type W4	0%	0.946	0.732

Line 5 - Average pumping head

Summary Table

	Average Pumping Head (m/hd)	
	AIR 23	**AIR24**
NI Water Only	91.5	103.94
PPP Only	154.05	151.9
Total	120.28	128.24

Total

The NIW 'Total' AIR24 Average Pumping Head is 128.24m.hd with a confidence grade of B4, this is an increase of 7.96m.hd from AIR23 (120.28m.hd).

Summary

Since AIR23 NI Water has automated the APH calculation using Feature Manipulation Engine (FME) which has a live database. Telemetry is used where possible to extract delivery pressure, suction pressure and outlet flow which are loaded into the Diamond

Warehouse for the FME process to read. Using the Telemetry data on Diamond, FME calculates the average suction pressure, the maximum delivery pressure, and the average outlet flow throughout the year. As part of this process, our new methodology uses maximum delivery pressure instead of an average and zero figures are now excluded, which is different from AIR23.

Telemetry data accounted either fully or in part for 79% of pump set returns for AIR24. For pump sets with no telemetry data currently available, calibrated network models (Current Average Daily Demand Models) constructed by a framework of Consultants performing Detailed Zonal Studies (DZS) in various study areas across Northern Ireland continues to be the data source. Pump sets based solely on DZS data makes up 13% of the return.

For AIR24, NIW had 384 pump sets in service, of these 303 are based on flow and/or lift data from telemetry. 54 of the 384 have no / incomplete data and no return has been made for these pump sets.

The daily flow total for individual pump sets is 1840.37Ml/d. Of this 1831.16Ml/d is based on telemetry data. Thus 99.5% of flow is based on data relative to the reporting year. Similarly, the total lift for individual pump sets is 19,972.03m, of which 11,240.11m is based on telemetry data, equating to 56.28% of lift based on data relative to the reporting year.

The Average Pumping Head figure has increased by 7.96m.hd from AIR23. Distribution pump sets have contributed an increase of 13.4m.hd to the overall figure, Water Supply a decrease of 6.76m.hd and PPP an increase of 0.13m.hd. This overall increase is relatively significant and is primarily due to the changes in calculation by adopting maximum delivery pressure instead of an average and the exclusion of zero figures. The decrease in water supply is due to removing a small amount of interstage pumps. The PPP slight increase is mainly due to raw water source management.

Distribution Input (DI)

The Company DI by Supply Source (606.54Ml/d) has been provided by the Company's Leakage Data Management Unit, as has the PPP Only DI (271.4Ml/d) and the NIW Only DI (335.24Ml/d), obtained by adding the relevant Water Supply sources.

Line 13 - Potable mains

This figure has been extracted from the Corporate Asset Register. There has been no change to the structure of the data reported on this year from the previous years that would directly affect the total provided.

A small change has been made to the data structure of the NI Water Mains Table. This is the addition of a "strategic distribution" mains type. The methodology has been amended to reflect the addition of this category into the query.

The confidence grade of the data will remain the same as the previous year. There has been no deterioration in data quality since the of the previous AIR submission. Any new data will have adhered to the NIW Code of Practice for the submission of asset data ensuring that data quality levels have been maintained throughout the year.

PPP only and NIW only 'Average Pumping Head' calculations

The NIW only and PPP only 'Average Pumping Heads' are 103.9m.hd and 158.3m.hd respectively. The PPP only value is in relation to the Pumping Head within the works. PPP WTWs do not have specific Distribution Networks, and therefore the water is extracted,

treated and then exits the works into the NIW Distribution Network. Within the Distribution Network, PPP water then mixes with NIW water, therefore making it impossible for NIW and PPP flows to be truly separated for use in PPP only and NIW only average pumping head calculations. Hence the value of 158.3m.hd calculated for PPP only is more in relation to the Pumping Head within the works.

A confidence grade of 'B4' has been allocated to these values of 103.9m.hd and 158.3m.hd for the 'Average Pumping Head' for NIW only and PPP only respectively.

PPP

Lines 1- 4 Column 1 only – Number of sources (PPP)

The PPP Water sources have remained consistent over the reporting period for AIR24 as they were with AIR23. In accordance with AIR17, NI Water has included the River Bann intake as an additional source to Ballinrees WTW. The reasoning used is, that there exists the potential to source the WTW directly from the River Bann rather than purely directing this source from the Ballinrees Impounding Reservoir. NI Water has also included the Altikeeragh IR as a source for Ballinrees WTW as it supplied a proportion of the water for Ballinrees WTW during the period 2023-24 as it did in 2022-23.

Lines 6-10 Column 1 only – Types of Treatment by Proportion (PPP)

No changes to the PPP types of treatment over the reporting period.

Lines 6-10 Column 2 only – Total number of Units referred to Type (PPP)

No changes to the PPP types of treatment over the reporting period.

Line 13 – Potable Mains (PPP)

No changes to the length of Potable Mains operated by the PPP Contractor over the reporting period.

NORTHERN IRELAND WATER LIMITED - ANNUAL INFORMATION RETURN

ANNUAL INFORMATION RETURN - TABLE 13 NON FINANCIAL MEASURES
SEWERAGE PROPERTIES & POPULATION (TOTAL)

	DESCRIPTION	UNITS	DP	1 REPORTING YEAR 2015-16	CG	2 REPORTING YEAR 2016-17	CG	3 REPORTING YEAR 2017-18	CG	4 REPORTING YEAR 2018-19	CG	5 REPORTING YEAR 2019-20	CG	6 REPORTING YEAR 2020-21	CG	7 REPORTING YEAR 2021-22	CG	8 REPORTING YEAR 2022-23	CG	9 REPORTING YEAR 2023-24	CG	10 REPORTING YEAR 2024-25	CG	11 REPORTING YEAR 2025-26	CG	12 REPORTING YEAR 2026-27	CG
A	PROPERTIES																										
1	Households properties connected during the year	000	3	4.076	B2	5.442	B2	6.385	B2	6.240	B2	5.170	B2	5.148	B2	4.575	B2	5.646	B2	4.825	B2						
2	Non-households properties connected during the year	000	3	0.198	B2	0.112	B2	0.178	B2	0.347	B2	0.266	B2	0.333	B2	0.312	B2	0.143	B2	0.130	B2						
B	BILLING																										
3	Households billed unmeasured sewage	000	3	599.994	A2	609.753	A2	619.835	A2	629.513	A2	639.082	A2	647.350	A2	654.732	A2	661.710	A2	667.188	A2						
4	Households billed measured sewage	000	3	0.000	A1	0.000	A1	0.000	A1	0.000	A1	0.000	A1	0.000	A1	0.000	A1	0.000	A1	0.000	A1						
5	Households billed sewage	000	3	599.994	A2	609.753	A2	619.835	A2	629.513	A2	639.082	A2	647.350	A2	654.732	A2	661.710	A2	667.188	A2						
6	Non-households billed unmeasured sewage	000	3	7.513	A2	7.314	A2	7.354	A2	7.362	A2	7.480	A2	7.458	A2	7.775	A2	8.167	A2	8.054	A2						
7	Non-households billed measured sewage	000	3	23.809	A2	24.343	A2	24.820	A2	25.296	A2	25.705	A2	26.107	A2	26.438	A2	26.624	A2	27.122	A2						
8	Non-households billed sewage	000	3	31.322	A2	31.657	A2	32.174	A2	32.658	A2	33.185	A2	33.565	A2	34.213	A2	34.791	A2	35.176	A2						
9	Void properties	000	3	43.463	A2	42.551	A2	41.741	A2	41.579	A2	41.483	A2	41.998	A2	42.975	A2	43.058	A2	43.177	A2						
C	POPULATION																										
10	Total connected population	000	3	1,529.734	B3	1,536.699	B3	1,544.413	B3	1,550.715	B3	1,565.984	B3	1,552.799	B3	1,570.536	B3	1,593.703	B3	1,596.587	B3						

Table 13 – Sewerage Properties and Population (Non-financial measures)

Introduction

Table 13 focuses on the number of properties and population connected to the public sewerage supply system. It extends to 10 lines, set out in three blocks:

- Block A Properties (Lines 1 & 2). Reports properties connected during the year.
- Block B Billing (Lines 3-12). Includes a breakdown of all measured and unmeasured household and non-household properties billed by the company. The property numbers should be the average for the reporting year.
- Block C Population (Lines 13-17). This records the population within each of the measured and unmeasured household and non-household categories. The population numbers should be the average for the reporting year.

The information in this table is used in tariff and charging analysis and determination (sewerage unit cost).

Data Sources, Data Validation and Data Quality Projects

NI Water's data on property counts and classifications is reported monthly from RapidXtra within the Rapid Property Summary (RPS). The data is extracted from the Diamond Warehouse via Microsoft SQL Server to produce the RPS report.

Our AIR24 methodology has remained consistent with previous years – using the automated Property Model tool to populate Table 13 figures (this was first introduced in AIR12 – the RPS as the input).

The RPS provides us with a snapshot at the end of each month in terms of net movement; however it alone does not support in the explanation of gross movements within the data. The plan is to further enhance the Power BI property models and incorporate these models across the business during 2024/25.

Customer/Property information is updated through:

- BAU ('business as usual') customer contacts, such as new connection requests, customer move in/move outs, or
- through Data Quality initiatives/Projects, and/or
- Metering work streams e.g. UNHH (Selectives), Optants, and Proactive Meter Exchange etc.

Under the Water & Sewerage Services (2006) Order, NI Water were required to install meters on all new household connections from April 2007. This practice has stopped as directed by a change in legislation, which took effect in July 2016. The legislation was amended by Regulations, which in effect relieved NI Water of the obligation to install meters at newly connected domestic properties. As domestic customers are not charged on a measured basis, the property is reported as unmeasured. Some domestic properties were initially reported as measured in AIR10 but this was rectified as per the erratum to AIR10. Depending on the basis for charging when domestic billing is introduced, these customers can be activated as measured household if required.

Based on standard industry figures, the volumes returned to sewer are assumed to be 95%, unless the customer challenges this assumption; whereupon they can apply for a non-return to sewer allowance which will be investigated and determined by NI Water.

For clarity, where reference is made in Table 13 to 'billed' household and 'billed' non-household, this is taken as the provision of water services to customers whether they are billed directly (non-domestic customers) or payment is made through subsidy by DFI (domestic customers).

As with Table 7 (Water) – as per Utility Regulator guidelines, farms were reclassified as billed non-households for AIR09 – this has remained for AIR24. Previously, in AIR08, farms had been classified and reported as 'billed' households; on the principle of their status and allocation of 'domestic allowance'.

The difference between the AIR23 and the AIR24 property figures can be explained as follows:

1. New Connections during the 2023/24 reporting year. The figures are based on data supplied by our Customer Connections Team and represent completed connections during the reporting year. The projections for New Connections remain in line with the agreed PC21 forecasts, however, if we notice an upturn or downturn, we will review and amend (during the compilation of the Principle Statement).
2. Added as a result of a customer contact. i.e. septic tank empty request, no water complaint, blocked sewer, updating of standing data e.g. removal of services etc. Within this category there are 2 scenarios:
    (a) The adding of properties NI Water allegedly did not know about
    (b) The adding of duplicates as the customer's address could not be found on Rapid. Rapid may hold the site number but when the customer contacts NI Water, they quote the verified postal address, which is different, therefore creating a duplicate. The street name may also have changed from the time of New Connection to that of customer contact (street names can change in the early stages of site development).
3. Removal/reclassification of properties as a result of data quality initiatives/projects
    a. Duplicate properties
    b. Reclassification of properties that were recorded in error
4. Change in occupancy status – movement from void/vacant to occupied and vice-versa.

As Data Owner for Property Standing Data, The Head of C&OD Services is responsible for the property standing data held by NI Water; this is monitored and managed through the Corporate Property Register (CPR) Project. The C&OD Business Services MI & Data Team chair this group.
The role of the CPR project is to agree a single consistent source of property data and to ensure that there is appropriate governance, controls and reporting for changes made to core data on the system. As Property Data Owners, we need to ensure the processes around creation, maintenance and demolition of properties are governed and appropriate control points and associated reporting are in place. Control is key for us; as such we have identified the systems, processes and people using property information across the business, alongside confirming data accuracy and endeavouring to reduce the opportunities for erroneous data entry and creation (such as the inability to recreate demolished properties or duplicate properties).

The issues under consideration were identified as of corporate relevance, therefore to ensure appropriate direction and governance the CPR was formalised. Key objectives include:

1. To agree a single consistent source of property data.

2. To ensure the source property data represents accurate, up-to-date information appropriate for use by the business.
    a. To understand and agree data primacy in respect of data updates from NI Water and external (Land & Property Services - LPS) sources
    b. To ensure the processes around creation (i.e. New Connections), maintenance and demolition of properties are governed and appropriate control points and associated reporting are in place. i.e. through data validation
    c. To co-ordinate property reconciliations between NI Water & external sources i.e. Data Sharing Agreements between NI Water & LPS, NI Water & Belfast City Council (BCC) etc and understand the reasons and validity of any differences
    d. To understand and ensure the adequacy of long term procedures for database maintenance, including the updating of data standards and associated CDE M&M Plans
3. To ensure the reporting requirements for the business are met relating to data held on Rapid, particularly, but not exclusively, in respect of tariffs, leakage, Annual Information Returns (AIR) & Principle Statement (PS) returns.
4. Challenge the data in the areas of
    a. Data categorisation & structure
    b. Data robustness – i.e. where is our data good and where is there opportunity for improvement? Identify projects that could aid improvement
    c. Data alignment – both internally and externally. Internally between systems such as Rapid, Ellipse, GIS, Diamond, Netbase, IMS etc. Externally through data reconciliations, such as LPS above.
5. To agree measures to improve the quality and integrity of the data, particularly the key CDEs as monitored by IMU
6. To agree the content and frequency of reports required by NI Water.
7. To agree the quality checking criteria for the above data and reporting and develop a Quality Plan including the determination of responsibilities and audit trails.
8. To produce & circulate an ‘operate and maintain’ programme for property data to the business.

The focus for the CPR project remains the same, including analysis and action on:

- Creation of an agreed single consistent source of property information, running alongside the CBC3 timelines
- Volume of properties coming onto the Rapid billing system on a monthly basis
    - new connections
    - customer contact
    - project work
- Volume of properties coming off the Rapid billing system (demolished)
    - sample check to ensure reason for demolition has been noted and on system audit trail recorded
- Volume of properties amended on the Rapid billing system
    - In particular, address fields -> building number, street name, town and postcode
    - sampling to identify if the data changes are data improvement or data regression
    - if data regression, further analysis into the process is undertaken
- Review of access privileges
    - Rapid audit
    - Through monthly audit samples
    - Internal CRs require sign off from CPR team as BAU
    - Working with Echo to review access privileges on an ongoing basis

- Interruptions to supply notices – returned mail
    - This returned mail has been previously brought to the attention of LPS and include properties that LPS have classified as live properties despite being returned as 'no such address' etc
    - The 2 way communication with LPS will help underpin our governance work and provide direction to the business on practices

Summary

As Table 13 is based on averages, please find summary table below for 'End March 2023' and 'End March 2024'. The '1st Dec 2023' actuals are used in the Principal Statement and Tariff Setting process.

Property Numbers	March 2023	1st Dec 2023	March 2024	Expected Movement
Unmeasured Sewerage Household	665093	663042	665311	Increase
Unmeasured Sewerage Non-Household	8112	8152	8112	Decrease
Measured Sewerage Non-Household	26774	26729	26774	Increase
Voids	42804	43128	43177	Increase
Total	**742783**	**741051**	**742783**	**Increase**

Site Metered Properties

As part of the ongoing data checks, NI Water has been confirming the number of site metered properties (multiple properties being charged through a single meter, such as business parks and industrial estates).

To ensure that these meters are not double counted, as with Table 7, the non-domestic site meters are not included in Table 13 non-domestic property counts (although NI Water still retain this information for customer record and charging purposes).

There are 3067 domestic properties (an increase of 22 during 23/24) classified as site meters. There will be further investigation and analysis to be completed during 2024/25 to ensure these are classified correctly.

Overall, the number of non-domestic site meters has increased by 248 during 2022/23. (15179-14931). This is as a result of categorisation movements in year such as measured water to site meter and unmeasured water to site meter.

Unmeasured Not Charged Properties

From the RPS, there are deemed to be 642 (gross) 'unmeasured – not charged' properties which (based on sample taken) are mostly NI Water properties. The C&OD Services MI & Data Team are currently investigating any 'unmeasured – not charged' properties outside of NI Water ownership to ensure they are classified correctly.

Unmeasured Household Property Movement

The table below provides a reconciliation of the reporting year property movements and resulting property numbers. It sets out how the properties have changed over the reporting year, due mainly to new connections, alongside some movement in the occupancy status. Note: these reported figures include domestic properties that are metered but as NI Water does not bill households for water, they are reported as unmeasured.

Property Numbers	March 2022	Dec 2022	March 2023
Unmeasured Sewerage Gross Household	692080	696820	698841
Unmeasured Sewerage Occupied Household (L3 year-end sub calc)	658326	656024	658326
Unmeasured Sewerage Voids Household	33754	33778	33748

Household Voids	Voids	Difference (in-year)
March 2023	33748	(+) 6
March 2022	33754	(-) 73
March 2021	33827	

Measured Household Property Movement

Due to the deferral of domestic charging, NI Water does not bill households for unmeasured or measured water, therefore we don't report figures for measured household property movements (they are included in the unmeasured line as they are not billed)

Unmeasured Non-Household Property Movement

Property Numbers	March 2022	1st Dec 2022	March 2023
Unmeasured Sewerage Gross Non-Household	14547	13566	13865
Unmeasured Sewerage Occupied Non-Household (L6 year end sub calc)	8221	8152	8112
Unmeasured Sewerage Voids Non-Household	6326	6153	5753

Measured Non-Household Property Movement

Property Numbers	March 2022	1st Dec 2022	March 2023
Measured Sewerage Gross Non-Household	29705	30665	30077
Measured Sewerage Occupied Non-Household (L7 year end sub calc)	26474	26729	26774
Measured Sewerage Voids Non-Household	3231	3197	3303

Non-Household Voids

Non-Household Voids	Voids	Difference (in-year)
March 2023	9056	(-) 501
March 2022	9557	(+) 746
March 2021	8811	

Confidence Grades

We have kept the confidence grades consistent with those of AIR23. During the reviews mentioned in the company commentary above, we will retain evidence to support any change in confidence grades.

Whilst the quality of data will improve, the method of extraction and reporting remained consistent. The automated tool (developed during AIR12) to populate the base property tables has remained in place for AIR24.

Annex A details the Line Methodology followed to calculate the figures within Table 13 Lines 1-10.

Annex A – Line Methodology for Table 13 Lines 1-10

A) Sewerage Properties and Population

Line 1: Household Properties Connected during the Year

This line represents the number of new household (domestic) properties added to the sewerage network during the reporting year (Previously not connected to the sewerage system).

The figures are based on the New Connections reported by the Customer Connection Team (CCT). A series of filters was then applied to identify New Connections connected for sewerage, as per embedded document. It is NIW policy to install meters on all Non-Domestic New Connections.



AIR 24 NC_ Sewerage.xlsx

Households properties connected during the year	**4825**

The number of new domestic connections for the year is 4825.

Line 2: Non-Household Properties Connected during the Year

This line represents the number of new non-household (non-domestic) properties added to the sewerage network during the reporting year (Previously not connected to the sewerage system).

The figures are based on the New Connections reported by the Customer Connection Team (CCT). A series of filters was then applied to identify New Connections connected for sewerage, as per embedded document. It is NIW policy to install meters on all Non-Domestic New Connections.

Non-Households properties connected during the year	**130**

The number of new non-domestic connections for the year is 130.

B) Billing

Line 3: Households Billed Unmeasured Sewerage

Due to the deferral of domestic charging, NI Water does not bill households for unmeasured sewerage.

This figure refers to the average number of households billed for unmeasured sewerage within the supply area. Void properties have been excluded, so occupied numbers only used.

This is calculated from the monthly Rapid Property Summary for AIR24 (dated 31st March 2024) as embedded below.


RPS March 24.xlsx

Households Billed Unmeasured Sewerage	End March 2023	End March 2024
Household - Unmeasured	632302	637231
Household - Sewerage Only	9	9
Household - Measured – Not Charged (test meters)	5	3
Household - Measured	30905	30217
Household – Site Meters	1860	1811
Household - Unmeasured - Not Charged	12	12
Total	665093	637231
Average (Apr23/Apr24)	**667188**	

The figure represents the number of unmeasured domestic properties that would have been billed had charging been introduced.

Line 4: Households Billed Measured Sewerage

Due to the deferral of domestic charging, NI Water does not bill households for measured water. Therefore any household properties that would have been included in line 4 are included in line 3.

Households Billed Measured Sewerage	End March 2023	End March 2024
	0	0
Average (Apr22/Apr23)	**0**	

Line 5: Households Billed Sewerage

Due to the deferral of domestic charging, NI Water does not bill households for sewerage.

This figure excludes void properties and is calculated as below:
(Table 13 line 2 plus line 4)

Households Billed Sewerage	Average 23/24
Households billed unmeasured sewerage	667188
Households billed measured sewerage	0
Total	**667188**

This figure represents the number of domestic properties that would have been billed had charging been introduced.

Line 6: Non-Households Billed Unmeasured Sewerage

This is the average number of non-households billed for unmeasured sewerage within the supply area, calculated from the Rapid Property Summary.

Figures are based on an average of Rapid End March 2022 and End March 2023 non-domestic unmeasured properties.

Non-Households Billed Unmeasured Sewerage	End March 2023	End March 2024
Non-Household - Unmeasured	8098	7980
Non-Household - Sewerage Only	14	15
Total	8112	7995
Average (Apr22/Apr23)	**8054**	

Line 7: Non-Households Billed Measured Sewerage

This refers to the average number of non-households billed for measured sewerage within the supply area, calculated from the Rapid Property Summary.

Figures are based on an average of Rapid End March 2023 and End March 2024 non-domestic measured properties.

Non-Households Billed Measured Sewerage	End March 2022	End March 2023
	26774	27470
Average (Apr22/Apr23)	**27122**	

Site metered properties are a subset of the overall non-domestic billed measured sewerage customer base, therefore not included in the figure above to avoid duplication (as per AIR24 Table 7). e.g Where multiple businesses/properties are served through one site meter, only the landlord or business park management is considered as the customer.

Line 8: Non-Households Billed Sewerage

This is the total number of non-households billed for sewerage within NI Water's area, excluding void properties. It is a calculated figure of Table 13 Lines 6 and 7.

Non-Households Billed Sewerage	Average 23/24
Non-Households Billed Unmeasured Sewerage	8054
Non-Households Billed Measured Sewerage	27122
Total	**35176**

Line 9: Void Properties

This is the average number of properties, within the supply area, which are connected to the sewerage system but do not receive a charge, as there are no occupants – (void properties)

This is calculated from the Rapid Property Summary for AIR24 by calculating the gross number of properties connected to the sewerage system minus the total number occupied as calculated in lines 5 and 8.

Gross Number of Properties Connected to the Sewerage System	End March 2022	End March 2023
Household - Unmeasured	660565	665311
Household - Sewerage Only	10	10
Household – Measured - Not Charged (test meters)	5	3
Household - Measured	35159	34460
Household – Site Meters	3089	3067

Household - Unmeasured - Not Charged	13	13
Non-Household – Unmeasured	13847	13671
Non-Household – Sewerage only	18	19
Non-Household - Measured	30077	31743
Total	742783	748297
Average (Apr23/Apr4)	**745540**	

Trade Effluent customers have been excluded from the above figure as they could already be included in measured sewerage. Trade effluent is considered within other tables of the AIR23 submission.

Voids	**End March 2024**
Total Gross Properties (as above)	745540
Less total occupied properties (line 5+line 8) =	702364
Total	**43177**

C) Population

Line 10: Total Connected Population

This figure is a calculation of the total population multiplied by the properties connected to the sewerage system as a proportion of the properties connected for water (according to the Rapid Property Summary).

The average totals for gross occupied sewerage and water properties are obtained using the Rapid Property Summary for End March 2023 and End March 2024.

	End March 2023	End March 2024	Average 23/24		
Gross number of properties connected for sewerage	742783	748297	745540		
Gross number of properties connected for water (T7 L7 + T7 L11)	910098	919190	914644		
Calculation = Sewerage Properties / Water Properties	= (745540 / 914644) * 100	**81.51%**	**Therefore, Total Connected Population equals (Table 7 Line 17 [1,919.12] * 81.51%) + Table 17a Line 2 [32,943]**		**1,596,587**
			1,563,644+32,943		

As detailed above, the number of sewerage properties has been calculated as 81.51% of those with water; this percentage is then applied to the total water population from Table 7 Block C.

(Water population total (Source Peter Nicholl) X 81.51%) + Non-Resident Population (Source Lisa Woodman) = Table 13 line 10

(1,919.12 X 81.51%) = 1,563,644 + 32,943 = 1,596,587

T13 L10	**1596.587**

NORTHERN IRELAND WATER LIMITED - ANNUAL INFORMATION RETURN

ANNUAL INFORMATION RETURN - TABLE 14 NON FINANCIAL MEASURES
SEWAGE COLLECTED (TOTAL)

	DESCRIPTION	UNITS	DP	1 REPORTING YEAR 2015-16	CG	2 REPORTING YEAR 2016-17	CG	3 REPORTING YEAR 2017-18	CG	4 REPORTING YEAR 2018-19	CG	5 REPORTING YEAR 2019-20	CG	6 REPORTING YEAR 2020-21	CG	7 REPORTING YEAR 2021-22	CG	8 REPORTING YEAR 2022-23	CG	9 REPORTING YEAR 2023-24	CG	10 REPORTING YEAR 2024-25	CG	11 REPORTING YEAR 2025-26	CG	12 REPORTING YEAR 2026-27	CG
A	SEWAGE - VOLUMES																										
1	Volume unmeasured household sewage	Ml/d	2	238.81	A2	244.60	B2	244.35	A2	255.21	A2	257.16	A2	277.51	A2	278.59	A2	264.35	A2	266.78	A2						
2	Volume unmeasured non-household sewage	Ml/d	2	4.25	A2	4.18	B2	4.16	A2	4.46	A2	4.50	A2	3.67	A2	4.17	A2	4.67	A2	4.54	A2						
3	Volume unmeasured sewage	Ml/d	2	243.06	A2	248.78	B2	248.51	A2	259.67	A2	261.66	A2	281.18	A2	282.76	A2	269.02	A2	271.32	A2						
4	Volume measured household domestic sewage	Ml/d	2	0.00	A1	0.00	A1	0.00	A1	0.00	A1	0.00	A1	0.00	A1	0.00	A1	0.00	A2	0.00	A1						
5	Volume measured non - household domestic sewage	Ml/d	2	38.72	B3	41.50	A2	39.21	A2	40.16	A2	40.88	A2	33.98	A2	36.28	A2	41.44	A2	40.98	A2						
6	Volume trade effluent (excluding Roads Drainage)	Ml/d	2	49.96	B2	49.00	B2	52.19	B2	48.28	B2	52.15	B2	52.49	B2	53.48	B2	51.12	B2	48.29	B2						
7	Volume waste water returned	Ml/d	2	243.06	B3	248.77	B3	339.91	B2	348.11	B2	354.69	B2	367.65	B2	372.52	B2	361.58	B2	360.59	A2						
8	Volume of Roads Drainage returned	Ml/d	2	175.80	CX	175.80	CX	175.80	CX	175.80	CX	175.80	CX	175.80	CX	175.80	CX	175.80	CX	175.80	CX						

Table 14 – Non-Financial Measures - Sewage Collected (Total)

Line 1 – Volume Unmeasured Household Sewage

This is calculated by assuming a 95% return to sewer of volume delivered to households factored by the percentage of the number of households billed for water against the number of households billed for sewerage services.

Sources

- AIR Table 10 Line 4 – Billed unmeasured household (Ml/d)
- AIR Table 13 Line 3 – Households billed unmeasured sewage
- AIR Table 7 Line 3 – Households billed unmeasured water

$$\text{Volume of unmeasured household sewage (Ml/d)} = \text{AIR Table 10 Line 4} \times 0.95 \times \frac{\text{AIR Table 13 Line 3}}{\text{AIR Table 7 Line 3}}$$

It is worth noting that water Billed unmeasured household volume includes the MLE adjustment, meter under registration and supply pipe leakage.

The Billed Unmeasured Household volumes have been calculated by multiplying the average PCC figure for NI Water by the unmeasured household population. The source of the PCC figure is the NI Water domestic consumption monitor. The household population figure is sourced from the Northern Ireland Statistics and Research Agency (NISRA).

Underground Supply Pipe leakage has been applied to the billed unmeasured household volume component of this calculation.

A meter under registration factor of 6.44% has been applied to this total volume. This percentage has been provided by WRc, as a result of a project initiated by NI Water and is specific to NI Water's domestic consumption monitor meters.

The AIR24 volume reported for unmeasured household sewage is 266.78 Ml/d. The volume reported in AIR23 was 264.35 Ml/d.

Line 2 - Volume Unmeasured Non-Household Sewage

This is calculated by assuming a 95% return to sewer of volume delivered to non-households factored by the percentage of the number of non-households billed for water against the number of non-households billed for sewerage services.

Sources

- AIR Table 10 Line 5 – Billed unmeasured non-household (Ml/d)
- AIR Table 13 Line 6 – Non-households billed unmeasured sewage
- AIR Table 7 Line 8 – Non-households billed unmeasured water

$$\text{Volume of unmeasured Non-household sewage (Ml/d)} = \text{AIR Table 10 Line 5} \times 0.95 \times \frac{\text{AIR Table 13 Line 6}}{\text{AIR Table 7 Line 8}}$$

It is worth noting that water Billed unmeasured non-household volume includes the MLE adjustment, meter under registration and supply pipe leakage.

The reported value for Billed Unmeasured Non-Household for AIR23(4) is 5.73(57) Ml/d. The value reported in AIR23 was 5.73 Ml/d.

The AIR24 volume reported for unmeasured non-household sewage is 4.54 Ml/d. The volume reported in AIR23 was 4.67 Ml/d.

Line 5 - Volume Measured Non-Household Domestic Sewerage

The information was extracted from the revised monthly 'Actuals' Report, which incorporates both:

- Actual billed sewerage discharge M^3 as per bills.
- Actual domestic sewerage allowance M3 applied per bills.

The calculated sewerage discharge volume was 14,956,646 M^3 converted to mega litres per day of 40.98 Ml/d.

Sewerage volume is 1% (169,846 M^3 | 0.47Ml/d) lower than last year.

The decrease in sewerage volume is primarily attributable to:

- Estimated reads applied to a meter during 2022/23 were removed during the year.
- Leak allowances applied to customer accounts during the year.

Industry Classifications with a material year on year decrease are detailed below:

- 0.3 million M^3 / 4% decrease - Other Services (Public Sector – Local Councils /Education Library Boards etc)
- 0.1 Million M^3 / 32% decrease - Metal Goods & Engineering

This line has been allocated a confidence grade of A2 as it has an element of manual manipulation of raw data from Rapid report to derive the full year discharge M^3.

Line 6 - Volume Trade Effluent

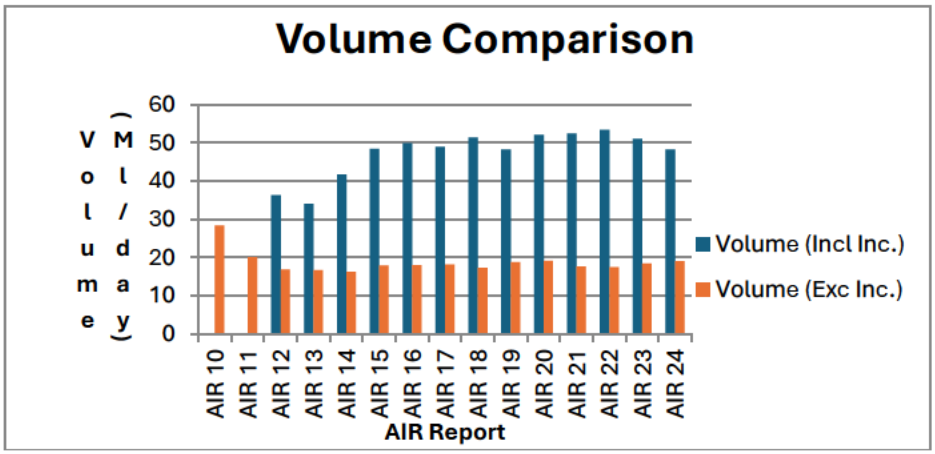
Sources

The names of individual traders were taken from Primary Source of Trade Effluent Customers (PSTEC). This database is updated by NIW on a regular basis. The chargeable volume of each trader was obtained from a Diamond Report that exports the TE Chargeable volumes from the Rapid Billing System Where no volumes were available, the consented volumes were used. This applied to 74 traders out of the 686 assessed. The total number of traders has increased from 684 in AIR23 to 686 in AIR24.

The total volumes for AIR 22 and 23 are detailed below:

AIR 23 Volume = 51.12 Ml/day
AIR 24 Volume = 48.29 Ml/day

In order to analyse these figures it has been decided to break them down into volumes including [redacted] and volumes without, to better identify the current trends in data.



There has been a 3.40 Ml/day decrease of effluent discharged from [redacted] during this period (32.66 Ml/day to 29.26 Ml/day). Comparing the total AIR 24 volume to the AIR 23 volume there has been an overall decrease of 2.83 Ml/day. With the volumes for [redacted] excluded there has been an increase of 0.57 Ml/day.

Summary of Volumes changes between AIR22 and AIR23 excluding the [redacted] are detailed below:

[redacted]

There has been a minor volume increase in the reporting period for NIW (0.37 Ml/Day) and PPP (0.20 Ml/Day) but when factored with the decrease in volume at Duncrue Incinerator (reduction of 3.40 Ml/Day), this results in a net reduction of 2.83 Ml/Day in total volume. A meter fault with measuring apparatus at Duncrue Incinerator during the reporting period has resulted in some volumetric data being estimated, which will have contributed to loss of accuracy.

Line 7 – Volume of Waste Water Returned

This line is a calculation of the figures from lines 3, 4, 5 and 6. The components of this calculation received confidence grades of A2, A1, A2 and B2 respectively. As B2 was the lowest confidence grade for a component, this line has been allocated a confidence grade of B2.

Line 8 – Volume of Road Drainage returned

In line with the proposed methodology, we carried out the following steps:

1. Based on information provided by Road Service, determined the surface area of all roads and footpaths in urban areas (i.e. within the 40mph speed limit) as follows:
    - Urban road surface area 39,264,486 m².
    - Urban footway surface area 17,022,987 m².
    - Total urban road & footway surface area 56,287,473 m².
2. Obtained Northern Ireland average annual rainfall data from the Met Office over the last 10 years – 1.14m.
3. Using the above, calculated the annual volume of rain falling on these surfaces and hence the run-off from roads & footpaths discharged to NIW sewers and storm drains.

- 56,287,473 x 1.14 = 64,167,719m3 (175.80 MLD)

4. From data extracted from NIW's network information management system (NIMS) for the largest 105 urban areas in Northern Ireland (i.e. all areas with greater than 1,000 population) we determined the following:
    - Aggregate length of combined sewers = 4,378km
    - Aggregate length of stormwater sewers = 4,317 km

    Both of these figures were adjusted to allow for those stormwater sewers which –rather than discharging to a watercourse – are connected into the combined system.
    Applying the assumption that the sewer lengths represent a 'proxy' estimate of road lengths, this yields an approximate **50:50** split between areas draining to combined systems and those draining to separate systems.
5. Using points 3 and 4 the volumes of Road Drainage returned are calculated as follows:
    - Volume returned to combined sewer = 87.9 MLD
    - Volume returned to storm sewer = 87.9 MLD
    - Total Volume returned to sewer = 175.80 MLD

NORTHERN IRELAND WATER LIMITED - ANNUAL INFORMATION RETURN

ANNUAL INFORMATION RETURN - TABLE 15 NON FINANCIAL MEASURE
SEWAGE TREATMENT (NIW Only)

	DESCRIPTION	UNITS	DP	1 REPORTING YEAR 2015-16	CG	2 REPORTING YEAR 2016-17	CG	3 REPORTING YEAR 2017-18	CG	4 REPORTING YEAR 2018-19	CG	5 REPORTING YEAR 2019-20	CG	6 REPORTING YEAR 2020-21	CG	7 REPORTING YEAR 2021-22	CG	8 REPORTING YEAR 2022-23	CG	9 REPORTING YEAR 2023-24	CG	10 REPORTING YEAR 2024-25	CG	11 REPORTING YEAR 2025-26	CG	12 REPORTING YEAR 2026-27	CG
A	**SEWAGE - LOADS**																										
1	Trade effluent load receiving secondary treatment (BOD/year)	tonnes	1	5,005.0	B2	4,378.9	B2	4,595.0	B2	5,036.5	B2	4,642.8	B2	4,503.3	B2	3,948.6	B2	4,079.4	B2	5,883.4	B2						
2	Total load receiving secondary treatment (BOD/year)	tonnes	1	38,977.2	C3	38,552.9	C3	39,123.7	C3	42,246.8	C3	41,918.0	C3	44,035.5	C3	43,353.9	C3	45,832.2	C3	46,924.1	C3						
3	Total load receiving primary treatment only (BOD/year)	tonnes	1	211.2	C3	211.0	C3	212.2	C3	212.2	C3	212.5	C3	212.9	C3	212.9	C3	210.4	C3	210.3	C3						
4	Total load receiving preliminary treatment only (BOD/year)	tonnes	1	669.9	C3	670.0	C3	389.7	C3	389.7	C3	389.7	C3	451.0	C3	451.0	C3	452.1	C3	452.1	C3						
5	Total load entering sewerage system (BOD/year)	tonnes	1	39,991.8	C3	39,561.2	C3	39,850.2	C3	42,980.4	C3	42,640.2	C3	44,817.3	C3	44,140.2	C3	46,589.2	C3	47,686.3	C3						
6	Equivalent population served (resident)	000	2	1,792.79	C3	1,773.11	C3	1,785.84	C3	1,928.28	C3	1,912.75	C3	1,999.45	C3	1,968.63	C3	2,073.24	C3	2,123.34	C3						
7	Equivalent population served (resident) (numerical consents)	000	2	1,731.65	C3	1,712.28	C3	1,724.77	C3	1,866.95	C3	1,850.57	C3	1,933.78	C3	1,904.35	C3	2,007.75	C3	2,057.62	C3						
B	**SEWERAGE - SERVICE FACILITIES**																										
8	Number of sewage treatment works	nr	0	1,015	A2	1,015	A2	1,015	A2	1,015	A2	1,016	A2	1,015	A2	1,016	A2	1,015	A2	1,015	A2						
9	Treatment capacity available (BOD5/day)	tonnes	1	134.1	D3	134.2	D3	135.0	D3	135.6	D3	135.6	D3	136.0	D3	135.8	D3	136.2	D3	136.2	D3						
C	**SEWAGE - SLUDGE DISPOSAL**																										
14	Percentage unsatisfactory sludge disposal	%	2	0.00	A1	0.00	A1	0.00	A1	0.00	A1	0.00	A1	0.00	A1	0.00	A1	0.00	A1	0.00	A1						
15	Total sewage sludge produced	ttds	1	33.7	B2	37.2	B2	35.7	B2	35.4	B2	36.2	B2	35.6	B2	31.4	B2	30.7	B2	30.3	B2						
16	Total sewage sludge transferred to PPP	ttds	1	32.9	A2	36.4	A2	34.9	A2	34.7	A2	35.4	A2	34.8	A2	30.6	A2	29.9	A2	29.5	A2						
17	Total sewage sludge disposal by NI Water	ttds	1	0.8	B2	0.8	B2	0.8	B2	0.7	B2	0.8	B2	0.8	B2	0.8	B2	0.8	B2	0.8	B2						

NORTHERN IRELAND WATER LIMITED - ANNUAL INFORMATION RETURN

ANNUAL INFORMATION RETURN - TABLE 15 NON FINANCIAL MEASURE
SEWAGE TREATMENT (PPP Only)

	DESCRIPTION	UNITS	DP	1 REPORTING YEAR 2015-16	CG	2 REPORTING YEAR 2016-17	CG	3 REPORTING YEAR 2017-18	CG	4 REPORTING YEAR 2018-19	CG	5 REPORTING YEAR 2019-20	CG	6 REPORTING YEAR 2020-21	CG	7 REPORTING YEAR 2021-22	CG	8 REPORTING YEAR 2022-23	CG	9 REPORTING YEAR 2023-24	CG	10 REPORTING YEAR 2024-25	CG	11 REPORTING YEAR 2025-26	CG	12 REPORTING YEAR 2026-27	CG
A	**SEWAGE - LOADS**																										
1	Trade effluent load receiving secondary treatment (BOD/year)	tonnes	1	1,094.1	B2	1,232.3	B2	1,418.4	B2	1,710.4	B2	1,678.7	B2	1,345.8	B2	1,301.2	B2	1,525.6	B2	1,822.4	B2						
2	Total load receiving secondary treatment (BOD/year)	tonnes	1	7,153.2	B3	7,360.2	B3	6,909.8	B3	7,386.2	B3	7,751.3	B3	7,366.3	B3	9,596.0	C5	7,466.5	B3	7,906.1	B3						
3	Total load receiving primary treatment only (BOD/year)	tonnes	1	0.0	A1	0.0	A1	0.0	A1	0.0	A1	0.0	A1	0.0	A1	0.0	A1	0.0	A1	0.0	A1						
4	Total load receiving preliminary treatment only (BOD/year)	tonnes	1	0.0	A1	0.0	A1	0.0	A1	0.0	A1	0.0	A1	0.0	A1	0.0	A1	0.0	A1	0.0	A1						
5	Total load entering sewerage system (BOD/year)	tonnes	1	7,153.2	B2	7,133.2	B2	6,909.8	B2	7,386.2	C3	7,751.3	B3	7,366.2	B3	9,596.0	B3	7,466.5	B3	7,906.1	C3						
6	Equivalent population served (resident)	000	2	326.41	B3	325.72	B3	315.51	B3	337.27	B3	353.71	B3	336.36	B3	438.18	C5	340.94	B3	360.76	B3						
7	Equivalent population served (resident) (numerical consents)	000	2	326.41	B3	325.72	B3	315.51	B3	337.27	B3	353.71	B3	336.36	B3	438.18	C5	340.94	B3	360.76	B3						
B	**SEWERAGE - SERVICE FACILITIES**																										
8	Number of sewage treatment works	nr	0	6	A1	6	A1	6	A1	6	A1	6	A1	6	A1	6	A1	6	A1	6	A1						
9	Treatment capacity available (BOD5/day)	tonnes	1	30.4	A2	30.4	A2	30.4	A2	30.4	A2	30.4	A2	30.4	A2	30.4	A2	30.4	A2	30.4	A2						
C	**SEWAGE - SLUDGE DISPOSAL**																										
14	Percentage unsatisfactory sludge disposal	%	2	0.00	A1	0.00	A1	0.00	A1	0.00	A1	0.00	A1	0.00	A1	0.00	A1	0.00	A1	0.00	A1						
15	Total sewage sludge produced	ttds	1	5.7	B3	5.9	B3	6.0	B3	6.6	B3	6.1	B3	5.9	B3	6.2	B3	6.1	B3	5.9	B3						
16	Total sewage sludge received from NI Water	ttds	1	32.9	A2	36.4	A2	34.9	A2	35.5	A2	35.4	A2	35.3	A2	30.9	A2	30.4	A2	30.3	A2						
17	Total sewage sludge disposal	ttds	1	38.6	B2	42.3	B2	40.9	B2	41.3	B2	41.5	B2	41.2	B2	37.1	B2	36.7	B2	36.2	B2						

NORTHERN IRELAND WATER LIMITED - ANNUAL INFORMATION RETURN

ANNUAL INFORMATION RETURN - TABLE 15 NON FINANCIAL MEASURE
SEWAGE TREATMENT (Total)

	DESCRIPTION	UNITS	DP	1 REPORTING YEAR 2015-16	CG	2 REPORTING YEAR 2016-17	CG	3 REPORTING YEAR 2017-18	CG	4 REPORTING YEAR 2018-19	CG	5 REPORTING YEAR 2019-20	CG	6 REPORTING YEAR 2020-21	CG	7 REPORTING YEAR 2021-22	CG	8 REPORTING YEAR 2022-23	CG	9 REPORTING YEAR 2023-24	CG	10 REPORTING YEAR 2024-25	CG	11 REPORTING YEAR 2025-26	CG	12 REPORTING YEAR 2026-27	CG
A	**SEWAGE - LOADS**																										
1	Trade effluent load receiving secondary treatment (BOD/year)	tonnes	1	6,099.1	B2	5,611.2	B2	6,013.4	B2	6,746.9	B2	6,321.5	B2	5,849.1	B2	5,249.8	B2	5,605.0	B2	7,705.8	B2						
2	Total load receiving secondary treatment (BOD/year)	tonnes	1	46,130.4	C3	45,913.1	C3	46,033.5	C3	49,633.0	C3	49,669.3	B3	51,401.8	C3	52,949.9	C3	53,298.7	C3	54,830.2	C3						
3	Total load receiving primary treatment only (BOD/year)	tonnes	1	211.2	C3	211.0	C3	212.2	C3	212.2	C3	212.5	C3	212.9	C3	212.9	C3	210.4	C3	210.3	C3						
4	Total load receiving preliminary treatment only (BOD/year)	tonnes	1	669.9	C3	670.0	C3	389.7	C3	389.7	C3	389.7	C3	451.0	C3	451.0	C3	452.1	C3	452.1	C3						
5	Total load entering sewerage system (BOD/year)	tonnes	1	47,145.0	C3	46,694.4	C3	46,759.9	C3	50,366.6	C3	50,391.5	C3	52,183.5	C3	53,736.2	C3	54,055.7	C3	55,592.4	C3						
6	Equivalent population served (resident)	000	2	2,119.20	C3	2,098.83	C3	2,101.35	C3	2,265.55	C3	2,266.46	C3	2,335.81	C3	2,406.81	C3	2,414.18	C3	2,484.10	C3						
7	Equivalent population served (resident) (numerical consents)	000	2	2,058.06	C3	2,038.00	C3	2,040.28	C3	2,204.22	C3	2,204.28	C3	2,270.14	C3	2,342.53	C3	2,348.69	C3	2,418.38	C3						
B	**SEWERAGE - SERVICE FACILITIES**																										
8	Number of sewage treatment works	nr	0	1,021	A2	1,021	A2	1,021	A2	1,021	A2	1,022	A2	1,021	A2	1,022	A2	1,021	A2	1,021	A2						
9	Treatment capacity available (BOD5/day)	tonnes	1	164.5	D3	164.6	D3	165.4	D3	166.0	D3	166.0	D3	166.4	D3	166.2	D3	166.6	D3	166.6	D3						
C	**SEWAGE - SLUDGE DISPOSAL**																										
14	Percentage unsatisfactory sludge disposal	%	2	0.00	A1	0.00	A1	0.00	A1	0.00	A1	0.00	A1	0.00	A1	0.00	A1	0.00	A1	0.00	A1						
15	Total sewage sludge produced	ttds	1	39.4	B2	43.1	B2	36.2	B3	6.6	B3	42.3	B2	41.5	B2	37.6	B3	36.8	B3	36.2	B3						
16	Not used	ttds	1																								
17	Total sewage sludge disposal	ttds	1	39.4	B2	43.1	B2	37.0	B2	41.3	B2	42.3	B2	42.0	B2	37.9	B2	37.5	B2	37.0	B2						

Table 15 - Sewage Treatment

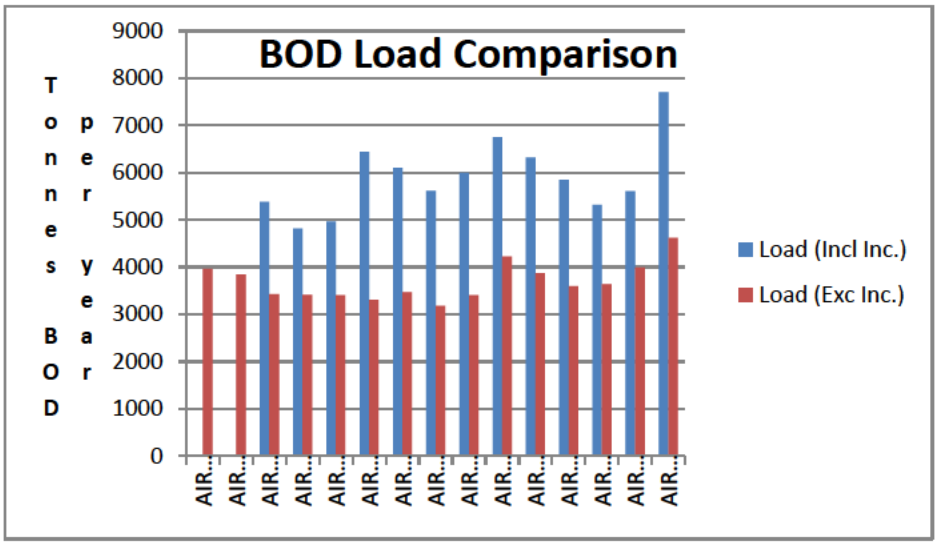
Line 1 - Trade effluent load receiving secondary treatment (BOD/year)

The names of individual traders were taken from the Primary Source of Trade Effluent Customers (PSTEC). This database is updated by NIW on a regular basis. The actual BOD strength of each sampled trader was used for the calculation of the load. Where an actual BOD strength was not available i.e. for sites that are not sampled, the discharge was assumed to be either standard strength, fixed industry strength or bespoke strength, a calculated BOD strength using the conversion factor detailed in the methodology document was used.

The loading for this year's and the previous year's reports were as follows:

- AIR23 = 5605.0 tonnes BOD/year
- AIR24 = 7705.8 tonnes BOD/year

In order to analyse these figures, they have been separated to show loading including [redacted] and loading excluding [redacted]



The loading from [redacted] has increased by 1473.46 tonnes BOD/year from 1614.40 tonnes BOD/year (AIR23) to 3087.86 tonnes BOD/year (AIR24). Overall the loading for AIR24 increased by 2100.00 tonnes BOD/year. With the increase from the incinerator removed from this figure, the difference between the two reports is an increase of 627.33 tonnes BOD/year.

As detailed in the methodology, the Fixed Strength COD's were then converted to a BOD strength. These calculated BOD strengths will be kept the same for future AIR reports unless there is a significant variation from the rolling 5 year average of the Mogden sample results. This will allow for easier comparison in BOD loading year on year. The strengths in the report are detailed below:

Industry Type	Settled COD (mg/l)	BOD (mg/l)
Vehicle Wash (Jet)	517	386
Vehicle Wash (Roller)	108	81
Vehicle Wash (Combined)	313	234
Industrial Laundry	722	539
Swimming Pool Filter Backwash	36	27

Industry Type	Settled COD (mg/l)	BOD (mg/l)
Small Brewery	2648	1976
Cattlemarts	1404	1048
Wheelie Bin Cleaners	406	303
Launderettes	478	357
Standard Strength	260	194

Summary of BOD loading changes between AIR23 and AIR24 are detailed below:



There has been a net increase in BOD loading from PPP traders of 296.77 tonnes BOD/year, the most significant change being an increase of 305.25 tonnes BOD/year from South PPP Sampled and Charged traders.

There has been a net increase of 330.56 tonnes BOD/year (excluding the incinerator) for NIW traders, the most significant of which being North West Sampled and Charged traders (increase of 129.77 tonnes BOD/year) and South Sampled and Charged traders (increase of 233.61 tonnes BOD/year)

The net of these changes equates to 627.33 tonnes BOD/year increase in AIR loadings with the incinerator figures excluded.

Line 2 - 7 – Sewage loads

NIW Only

It should be noted that the banding of the WWTWs for this table is on the same basis as that used for Table 17c. It is based on the latest set of Populations Equivalents minus the allowance for the tourist population. Since AIR23, PEs for 102 WWTWs have been updated.

The allowance for the tourist population, which has been deducted for the purposes of band size determination, has been the proportion of PE allocated to hotels, and caravan and tent pitches only. No deduction has been made for commuters as such information has not been captured.

The loads reported in this table are the sums of the loads received by each WWTWs or outfall in each particular category, and hence include the proportion of PE allocated to hotels, and caravan and tent pitches therefore loads reported in this table include the non-resident population. The method for computing loads from NIW only WWTWs is the same as was implemented for AIR23, there has been no inclusion of re-circulated sludge/sludge liquors in the loads reported.

The Water and Sewerage Services (NI) Order 2006 designated that the discharge from hospitals, nursing homes & clinics should no longer be considered as Trade Effluent, therefore for AIR24 these have been removed from the Trade Effluent Submission. For the majority of hospitals a certain percentage of hospital discharges has been included due to discharges from x-ray departments and bathing pools. Since AIR12, the AIR11 Trade Information, for nursing homes and clinics, has been maintained as there was no other avenue available to obtain this information. Similarly the PEs for the hospitals has been

factored up to 100% of their total discharge to give a more accurate figure of load discharging to the sewerage network.

NIW has information pertaining to septic tank imports to its WWTWs. In summary of the 17 WWTWs that are septic tank imports centres 4 receive the sludge at the head of the inlet works and the remaining 13 receive it via sludge reception centres

For AIR24 conversion factors, received from our scientific staff, were used to convert the septic tank imports to PEs for the 4 WWTWs where imports are discharged directly to the inlet works.

Allowance at the other 13 WWTWs is not being made as there is no way of computing the PE of the supernatant return as a result of the septic tank imports.

The WWTWs where this sludge was discharged at the head of the works were Belfast, Glenstall, Lisburn (New Holland) and Strabane. A conversion was used to get an equivalent PE which was adopted for these sites for AIR13..

An assumption of 1% dry solids was made for Suspended Solid (SS) loading and an equivalent PE based on 60g of SS solids per PE was used.

			PE Calculation			
NIW CAR Name	**Site Car Id**	**Total Volume m3/Yr**	**Total Volume m3/day**	**SS Loading (Assume 1% Dry Solids) m3/day**	**SS Loading kg/day**	**PE (SS/0.06)**
Belfast	S0345	9351.218	-25.62	0.26	256.20	4270
Glenstall	S1109	5958.173	16.31	0.16	163.24	2721
Lisburn (New Holland)	S0329	4789.686	13.12	0.13	131.22	2187
Strabane	S3213	4.035	0.0	0.00	0.11	2

NIW has also information pertaining to Sludge Imports to its WWTWs however due to the fact that the supernatant return is metered at only a small number of WWTWs, it would appear that these meters require verification and perhaps calibration. Therefore no allowance is being made for PE resulting from sludge imports at these works.

The Reporters Report on AIR09 recommended that NIW correct possible overestimation of total WWTW loads due to the inclusion of offices/commercial premises. The majority of the residential and non-residential element of PEs used to calculate tables 17c and 17d was based on Pointer information from MapInfo. However it should be noted that the non-residential element of Pointer is made up of both commercial and unknown properties. At this present time it is not known what proportion of the unknowns are actually residential and which are non-residential and therefore it has been decided to include both elements when calculating the PEs for the band sizes. It is difficult to estimate the proportion of load at a WWTW due to commuters, or the load which should be deducted from/added to a particular WWTW due to population commuting out of/into the catchments. Hence no allowance to WWTWs loads has been made either way for Table 17d.

The only allowance made for newly connected properties is where a population studies have been carried out for a drainage catchment during the reporting year and the

recommendations have been considered and agreed upon. Where a population study has not been completed for a drainage catchment no allowance has been made for newly connected properties. It should be noted that some drainage catchments may not have had a population review undertaken for several years. Going forward the exercise explained under 'Future Improvement' above will address this shortfall.

The table below gives a breakdown of the total load received by the company in '000 tonnes of BOD per annum, by each component used to build up the reported data. Please note the total equates to Line 5 (minor discrepancy due to rounding up of fractions).

Components used in build-up of Total Load	**Total PE**	**000 tonnes of BOD per annum**
Residential	1,392,304	30,491.47
Non-Residential	229,800	5,032.63
Hotels	24,253	531.13
Educational (Play/Nursery/Primary/ Secondary schools)	78,785	1,725.40
Trade PE	272,989	5,978.46
Large (>7500m3) Consumers	125,484	2,748.10
Caravan Parks	29,866	654.07
Sludge Import / Export / Supernatant (Sludge Import to Inlet of Works – to 5 WWTWs 9,286 PE)	23,974	525.02
Total (Line 5)	**2,177,455**	**47,686.28**

Line 2 - Total load receiving secondary treatment

The table below shows the changes in WWTWs receiving secondary treatment since AIR23 for Line 2. Individual changes 15% or greater listed. NB

Name of Works	**CAR Site ID**	**PE Change**	**Comments**
Ardglass (WWTW)	S00268	683.2	TE Update
Newry (WWTW)	S02685	-28,509.9	Actual PE updated with pointer data & TE Update
Waterfoot Road (WWTW)	S01643	-52.0	PE Study by APT
Total for WwTW's with less than 15% PE Change	N/A	77,739.3	89no. WwTW's from TE Updates and PE Reviews
	TOTAL	**49,860.5**	**Change in Line 2 since AIR23**

The change in PE equates to an increase in load of 1,091.95t BOD/yr (i.e. 49,860.5x 60 (for 60g/hd/day) /1000/1000 x 365) from AIR23 to AIR24, allowing for rounding up and down and conversions.

Difference between AIR24 and AIR23 values (to 2 decimal places):

Line 2 for AIR24-	**46,924.1**
Line 2 for AIR23 -	**45,832.2**
Total Difference -	**1,091.9**

Note – The difference in the above totals are due to rounding of values.

Line 3 - Total load receiving primary treatment only

The table below shows the changes in WWTWs since AIR23 that affects load entering the system for Line 3. NB. Individual changes 15% or greater listed.

Name of Works	CAR ID	PE Change	Comments
Blackstaff (Septic Tank)	S00219	-8.2	Population report completed by RWwIP
Carran Hill (WWTW)	S02256	2.8	Actual PE updated with pointer data
Total for WwTW's with less than 15% PE Change is only Ballyhalbert Victoria WwTW	S05412	2.1	1no. WwTW's from TE Updates
	TOTAL	**-3.3**	**Change in Line 4 since AIR23**

The change in PE equates to an increase in load of -0.07t BOD/yr (i.e. -3.3 x 60 (for 60g/hd/day) /1000/1000 x 365) from AIR23 to AIR24, allowing for rounding up and down and conversions.

Difference between AIR24 and AIR23:

Line 3 for AIR24 -	**210.3**
Line 3 for AIR23 -	**210.38**
Total Difference -	**-0.08**

Line 4 - Total load receiving preliminary treatment only

The table below shows the changes in WWTWs since AIR23 that affects load entering the system for Line 4. NB There have been no changes in AIR24.

Difference between AIR24 and AIR23:

Line 4 for AIR24-	**452.14**
Line 4 for AIR23 -	**452.14**
Total Difference -	**0.00**

Line 5 - Total load entering sewerage system

The table below shows the changes in WWTWs since AIR23 that affects load entering the system for Line 5. NB. Individual changes 15% or greater listed.

Name of Works	CAR ID	PE Change	Comments
Ardglass (WWTW)	S00268	683.2	TE Update
Newry (WWTW)	S02685	-28,509.9	Actual PE updated with pointer data & TE Update
Waterfoot Road (WWTW)	S01643	-52.0	PE Study by APT

Name of Works	CAR ID	PE Change	Comments
Blackstaff (Septic Tank)	S00219	-8.2	Population report completed by RWwIP
Carran Hill (WWTW)	S02256	2.8	Actual PE updated with pointer data
Total for WwTW's with less than 15% PE Change	N/A	77,977.8	92no. WwTW's from TE Updates and PE Reviews
	Total	**50,093.7**	**Change in Line 5 PE since AIR23**

The change in PE equates to an increase in load of 1,097.05t BOD/yr (i.e. 50,093.7 x 60 (for 60g/hd/day) /1000/1000 x 365) from AIR23 to AIR24, allowing for rounding up and down and conversions.

Difference between AIR24 and AIR23:

Line 5 for AIR24 -	**47,686.3**
Line 5 for AIR23 -	**46,589.22**
Total Difference -	**1,097.08**

Note – The difference in the above totals are due to rounding of values.

Line 6 - Equivalent population served (resident)

The table below shows the changes in WWTWs since AIR23 that affects equivalent population served (resident) for Line 6. Individual changes 15% or greater listed.

Name of Works	CAR ID	PE Change	Comments
Ardglass (WWTW)	S00268	683.2	TE Update
Newry (WWTW)	S02685	-28,509.9	Actual PE updated with pointer data & TE Update
Waterfoot Road (WWTW)	S01643	-52.0	PE Study by APT
Blackstaff (Septic Tank)	S00219	-8.2	Population report completed by RWwIP
Carran Hill (WWTW)	S02256	2.8	Actual PE updated with pointer data
Total for WwTW's with less than 15% PE Change	N/A	77,977.8	92no. WwTW's from TE Updates and PE Reviews
	Total	**50,093.7**	**Change in Line 6 PE since AIR23**

Difference between AIR24 and AIR23:

Line 6 for AIR24 -	**2,123,337**
Line 6 for AIR23 -	**2,073,243**
Total Difference -	**50,094**

Note – The difference in the above totals are due to rounding of values.

Line 7 - Equivalent population served (resident) (Numerical consents)

The table below shows the changes in WWTWs PEs since AIR23 that affects equivalent population served (resident) with numerical consents for Line 7. Individual changes 15% or greater listed.

Name of Works	CAR ID	PE Change	Comments
Ardglass (WWTW)	S00268	683.2	TE Update
Newry (WWTW)	S02685	-28,509.9	Actual PE updated with pointer data & TE Update
Total for WwTW's with less than 15% PE Change	N/A	77,697.1	77no. WwTW's from TE Updates and PE Reviews
	Total	**49,870.4**	**Change in Line 7 PE since AIR23**

Difference between AIR24 and AIR23:

Line 7 for AIR24 -	**2,057,621**
Line 7 for AIR23 -	**2,007,750**
Total Difference -	**49,871**

Note – The difference in the above totals are due to rounding of values.

Line 8 - Number of sewage treatment works

The number of WWTWs of 1015, on this line differs from the total of 1021 as shown in Table 17c, as the former does not include the screened outfalls (1 No.) and the unscreened outfalls (5 No.), as per the definition for this line. There have been no changes in AIR24.

Difference between AIR24 and AIR23:

Line 8 for AIR24 -	**1,015**
Line 8 for AIR23 -	**1,015**
Total Difference -	**0**

Line 9 – Treatment capacity available

The table below shows the changes in Treatment Capacity Available at WWTWs since AIR23 for Line 9. NB.

Name of Works	CAR ID	PE Change	Comments
Derrycrin	S01567	271.0	BU (17/11/2023,RBC treatment for FA)
Eglish (Armagh)	S02578	79.0	RWwIP output, Design PE increased, Beneficial Use 27/02/2024(RBC -30m3 PST). Actual PE updated with pointer data
Lisnamuck (Coleraine)	S01158	-10.0	RWwIP output, Design PE increased, Beneficial Use (date TBC)
Mountfield (WWTW)	S03192	85.0	BU (22/03/2024, RBC for FFT)
Tirquin	S03230	3.0	RWwIP output, Design PE increased, BU (date TBC) RBC
Tursallagh	S03235	10.0	RWwIP output, Design PE increased, BU (Date TBC) RBC
	Total	**438.0**	**Change in Line 9 PE since AIR23**

The change in PE equates to an increase in load of 0.03t BOD/day (i.e. 438.0 x 60 for 60g/hd/day /1000/1000) from AIR23 to AIR24.

Difference between AIR24 and AIR23:

Line 9 for AIR24 -	**136.24**
Line 9 for AIR23 -	**136.21**
Total Difference -	**0.03**

Note – The difference in the above totals are due to rounding of values

Confidence Grade

The confidence grade for line 8 remains as A2. There may still be a number of small WWTWs which are perhaps under the ownership of the NI Housing Executive or have become private due to customers perhaps installing their own private septic tanks or converting 2 houses into 1. Hence a small reduction in confidence grade i.e. A2 is viewed as necessary to reflect this uncertainty, especially as 692WWTWs (excluding tourist PE) are listed as having a PE of less than 100.

Lines 14- 17 Sewage – Sludge Disposal

NIW Only

Line 14 – Percentage unsatisfactory sludge disposal

Northern Ireland Water (NIW) continues to have zero unsatisfactory sludge disposals. NIW has again assigned a confidence grade of A1 to percentage unsatisfactory sludge disposal as the total is zero.

Line 15 – Total sewage sludge produced

Sewage cake is produced from 8Nr. NIW sites and transported to PPP Contractor for incineration. Liquid sludge is also transported to the PPP Contractor (Ballynacor & Duncrue Street, Belfast) where the Contractor measures and processes same for disposal (including Belfast WwTW Indigenous.

For the purpose of AIR 24 submission Table 15 (NIW Only) relates to sewage sludge produced for 2023/24 (tds) as recorded by PPP and monthly by the WWPL Sludge Officer (reconciled using the SLS) and presented in the monthly Sludge Management Report along with an estimated quantity of WwTW & WwPS grit & screenings which are routinely removed as part of the sewage treatment process and disposed of separately under Tender C1088 (Collection, Transportation and Disposal of Waste by skip). The total estimated quantity of grit and screenings removed as part of the sewage treatment process and disposed of under Tender C1088 has been collated on Worksheet 4 for the period of 2023/24.

Line 16 - Total sewage sludge received from NI Water

Northern Ireland Water is contracted to transfer all sewage liquid and cake to PPP. Sewage cake is produced from 8Nr. NIW sites and transported to PPP Contractor for incineration. Liquid sludge is also transported to the PPP Contractor (Ballynacor & Duncrue Street, Belfast) where the Contractor measures and processes same for disposal (including Belfast WwTW Indigenous). That element of the sewage treatment production is reported and subsequently combined for the Total T15 submission. This data is also submitted through PPP reporting in T42.

Line 17 - Total sewage sludge disposal

Northern Ireland Water disposes the same amount of sludge as that produced (Line 15). NIW remains committed to compliance with the requirements of the “Safe Sludge Matrix.” A

total of 97.5% of sewage sludge to PPP during 2023/24. The total estimated quantity of grit and screenings removed as part of the sewage treatment process and disposed of separately under Tender C1088 (Collection, Transportation and Disposal of Waste by skip) has been collated and disposed to landfill & other (ReCon) in 2023/24.

PPP Only

Line 2 - Total load receiving secondary treatment

The total loads receiving secondary treatment have changed to reflect the actual load discharged from the NI Water sewer network to the PPP works. There has been an increase of 573.6 Tonnes BOD received by the Omega wastewater sites and 134.0 Tonnes BOD reduction at the Kinnegar Wastewater site.

Line 6 - Equivalent population served (resident)

The change in the Equivalent Population Served (resident) receiving treatment reflects the change in load received from the NIW Catchments in line with the variation to the Loading received at the works (Line 2 above).

Line 7 - Equivalent population served (resident) (Numerical consents)

As all the PPP WwTW's have numerical consents, the change reflects the same change in Line 6 above for the same reasons. [Refer to Lines 2 &6 above].

Lines 14- 17 Sewage – Sludge Disposal

PPP only

Line 14

No change.

Line 15 - Total sewage sludge produced

Note: The entry on Line 15 refers to Omega Sludges only as Kinnegar is viewed as a NI Water Sludge Source within this Table.

The changes in sludge produced data reflect the actual loads delivered to the PPP contractor from within the NI Water sewer network, outside the PPP contractor's control. There are minor additions for Screenings and Grit which were initially reported in AIR13 and subsequently in AIR submissions since by the Contractors.

The variations are tabulated below;

PPP Production	AIR24	AIR23	AIR22	AIR21	AIR20	AIR19	AIR18	AIR17	AIR16	AIR15
Armagh WWTW	0.415	0.486	0.529	0.537	0.506	0.486	0.534	0.605	0.535	0.579
Richhill WWTW	0.066	0.074	0.076	0.07	0.066	0.067	0.068	0.071	0.071	0.063
Ballynacor WWTW	2.737	2.812	2.687	2.398	2.607	2.307	1.882	1.739	1.564	2.269
Ballyrickard WWTW	1.058	1.141	1.221	1.107	1.14	1.15	1.246	1.293	1.064	1.337
NDA WWTW	1.469	1.577	1.513	1.661	1.687	1.514	1.629	1.656	1.818	1.633
Omega Screenings/Grit	0.139	0.181	0.162	0.156	0.141	0.22	0.233	0.206	0.083	0.083
Totals	5.884	6.271	6.188	5.929	6.147	5.744	5.592	5.57	5.135	5.964

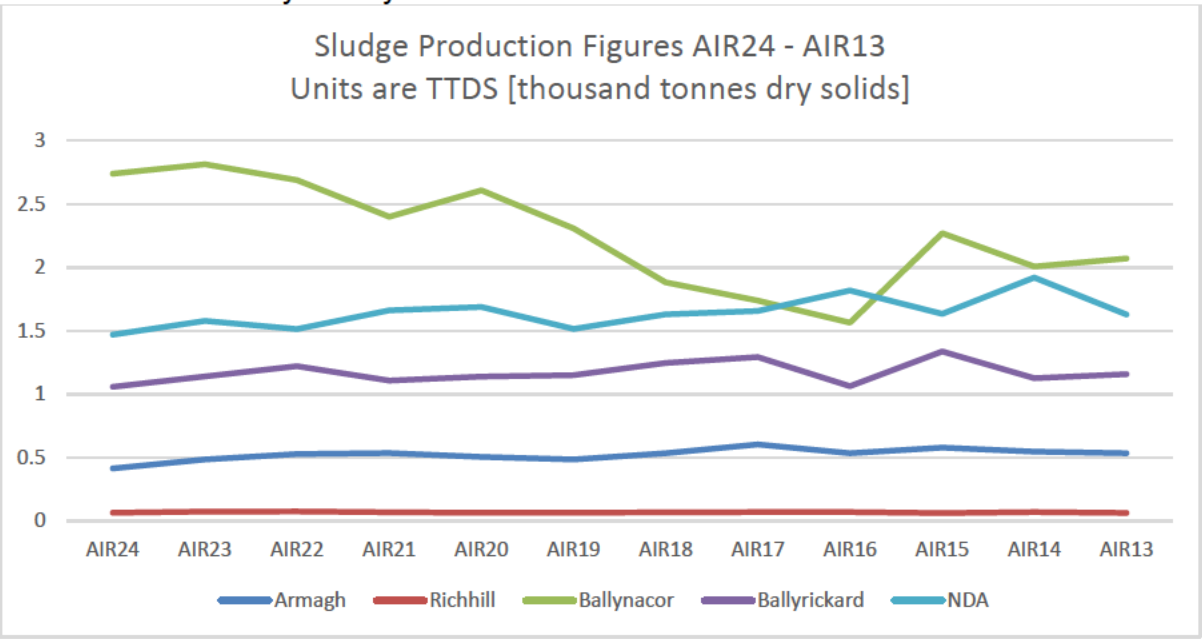
PPP Production	AIR14	AIR13	AIR12	AIR11
Armagh WWTW	0.547	0.535	0.57	0.759
Richhill WWTW	0.071	0.065	0.066	0.213
Ballynacor WWTW	2.007	2.069	3.33	2.468
Ballyrickard WWTW	1.126	1.158	1.225	1.627
NDA WWTW	1.92	1.628	1.559	1.753
Omega Screenings/Grit	0.088	0.106		
Totals	5.759	5.561	6.75	6.82

The changes in sludge production [shown below in graphical form] records data for Omega reflect a probable combination of :

(i) Cumulative tolerances in the representative nature of dry solids sampling and flowmeter accuracy (particularly on smaller sites)

(ii) A mix of improved methodologies and record keeping systems for liquid and cake movements (as demanded by the Omega contract payment processes) implemented by end of AIR11, and

(iii) The timing of data capture, where prolonged dry periods can have a fluctuating effect from year to year on absolute values.



The Omega sites continue to present a reasonably consistent trend over the last 5 year AIR periods, with Ballynacor WwTW increasing (albeit at a slower rate) each year and the remaining Omega sites decreasing slightly in sludge production. .

Line 16 - Total sewage sludge received from NI Water

This reflects the change in sludge quantities received by the PPP Contractor from the Company and includes that received from Kinnegar concession, which is treated as Company sludge for the purposes of the Omega PPP Contractor's records.

Line 17 - Total sewage sludge disposal

In AIR23 the Omega Contractor reported a sludge disposal of 36.7 ttds [36.706 ttds]. This year (AIR24) the reported figure is 36.2 ttds [36.173 ttds]; these Omega based figures also exclude the Screenings and Grit removal for both the Kinnegar site and the NIW sites, where each of these parties disposes of these directly, rather than through the Omega contract .

9The comparable ttds total sludge disposal variance against AIR23 is considered to be a combination of:

(i) Timing of data capture (sludges being collected and receipted for disposal)

(ii) Accurate measurement and records demanded under the Omega contract

(iii) Variations in quantities of sludge produced across PPP and NIW WwTWs, potentially indicative of more CSO discharges in what was a significantly wetter AIR24 period compared to AIR23.

(iv) Reporting of Screenings and Grit, and modification to accuracy where possible.

(v) Reporter requirement that the total Sludge Disposal calculation is adjusted to remove the Incinerator Return Loading which is essentially a double count, has not impacted on this, as it has not been included.

(vi) The inaccurate methodology for estimation of the Centrate returns to Duncrue WwTW. As the Regulator has already agreed that the Glen Water operation at Belfast WwTW is unique and that it should not be charged in relation to Trade Effluent, even though this operation is covered by Trade Effluent Agreements. It is worthy to note that the Omega Contract pays on Sludge Processed and not Net Volumes [which would disregard any re-circulation]. This would further suggest that the calculation is not relevant.

(vii) A continuation of the 2021/22 significant reduction of sludge transfers from Belfast WWTW to the Omega Contractors dewatering facilities at Duncrue St.

Specific Commentary Requirements:

- Assumptions Made:
  - 60g/h/d as per NIAUR requirements
  - Skips weights (for Screenings and Grit) are recorded in wet tonnes. An assumption based on long term averages of (39%DS Screenings and 65%DS Grit) Dry Solids content has been used to convert wet tonnes into TDS. Apart from Kinnegar where the %DS is assessed for each skip weight.
- BOD loading is based on the measured influent sample result of loading applied to the WWTW processes; therefore there is no need to include a calculation for recirculated Sludge/Sludge liquors in Lines 1-7. It is not a calculated load from desktop analysis of Population, as required by the Regulator Guidance Notes. However, PPP Management team have been instructed to proceed on the basis of measured BOD and PE calculated from measured BOD (rather than desktop calculation) as it has been advised this is the Reporter and Regulators preferred method of establishing PE and BOD.
- Sludge production is based on the records of actual sludge imported to treatment or disposal centres. This is confirmed from the Contractors records of sludge from both weighbridge / Waste Management Notes records (for sludge cake) and sludge logger records (for liquid sludge).
- The PE figures have only been established on the basis of the BOD_5 loads recorded by the end of the year and represent the load received for the AIR24 Reporting Period. They have not therefore been notified to NIEA, as any such notifications relate to calendar years.
  As the PPP contractors do not control septage, trade effluent nor manage connections of domestic population, they are unable to build up the loads on this basis. The loads are therefore determined in accordance with the Table 15 Line 2 Methodology, based on 52 treated effluent BOD_5 sample results per year]. This is contrary to the requirements of the Guidance Notes, and is not consistent with how NI Water only data is constructed; but PPP Management Team has been advised that this is the Reporter and the Regulator's preferred method of calculation. The PPP only data remains unchanged. The approach to recirculated sludge/sludge liquors in Lines 1-7 are consistent with the methodology presented in AIR's 10-23.

Total Table

Line 14 - Percentage unsatisfactory sludge disposal

No change from previous year. Sludges were either incinerated or disposed of to licensed recycling facilities in NI and GB.

Line 15 - Total sewage sludge produced

The changes to the sludges produced are reflected in the commentary to Line 17 below. Refer to Line 15 above.

Line 17 - Total sewage sludge disposal

In AIR23 the PPP Contractors reported a disposal of 36.7 ttds [36.705] sludge disposed of. This year (AIR24) the reported figure is 36.2 [36.173] ttds.

In AIR23 the Company disposed of 0.8 ttds [0.798 ttds] relating to grit/screenings sludge. This year (AIR24) the reported figure is 0.8 ttds [0.761 ttds]. The AIR24 year was a very wet year for rainfall as 1421.1mm fell based on the AREAL series [Long term annual average 1,100mm of rainfall]. Rainfall for the AIR23 period was 1135.5mm. This may be reflected in more frequent operation of network CSO's with the potential for less loading entering all WWTWs across NI, and hence less Company sludge being generated for disposal.

In total, AIR23 reported 37.5 ttds [37.526 ttds] of sludge disposed of by all parties. In this reporting year (AIR24) the figure is 37.0 ttds [36.998 ttds].

The variance of 0.528 ttds [0.415 ttds AIR23] is considered to be a combination of:

(i) A reduction in total tonnage of sludge disposed of by the Omega contractor from NIW, Kinnegar and Omega WWTWs in combination, potentially a function of the higher NI rainfall and more frequent operation of network CSO's.

(ii) Variation in sludges derived for PPP Contractor grit and screenings, providing a further potential for variance.

(iii) A variation in Sludge and Screenings handled by NI Water.

(v) A substantial decrease in the volume of Indigenous Sludge produced at Duncrue St. -1.158 ttds. A substantial increase in Sludge cake received +0.476 ttds and reduced Liquid Sludge from NI Water of -0.328 ttds. A decrease of Sludge produced by Omega of -0.185. An increase in Ballynacor Sludge Cake delivered at +0.506 ttds. Kinnegar WwTW increased Sludge Cake production by +0.198 ttds, the remaining factor is the reduction in overall Screenings and Grit disposal which was -0.038 ttds.

NORTHERN IRELAND WATER LIMITED - ANNUAL INFORMATION RETURN

ANNUAL INFORMATION RETURN - TABLE 16 NON FINANCIAL MEASURES
SEWERAGE SERVICE ACTIVITIES (NIW Only)

	DESCRIPTION	UNITS	DP	1 REPORTING YEAR 2015-16	CG	2 REPORTING YEAR 2016-17	CG	3 REPORTING YEAR 2017-18	CG	4 REPORTING YEAR 2018-19	CG	5 REPORTING YEAR 2019-20	CG	6 REPORTING YEAR 2020-21	CG	7 REPORTING YEAR 2021-22	CG	8 REPORTING YEAR 2022-23	CG	9 REPORTING YEAR 2023-24	CG	10 REPORTING YEAR 2024-25	CG	11 REPORTING YEAR 2025-26	CG	12 REPORTING YEAR 2026-27	CG
A	**ASSET BALANCE AT APRIL 1**																										
1	Total length of sewers	km	2	15,581.51	B3	15,625.13	B3	15,777.29	B3	15,890.63	B3	16,009.10	B3	16,163.23	B3	16,301.61	B3	16,362.76	B3	16,480.46	B3						
2	Total length of "critical" sewers	km	2	3,760.85	C3	3,839.64	C3	3,860.69	C3	3,892.98	C3	3,930.23	C3	3,997.00	C3	4,044.91	C3	4,043.97	C3	4,079.34	C3						
B	**CHANGES DURING REPORT YEAR**																										
3	New "critical" sewers	km	2	36.44	C3	1.49	C3	2.75	C3	2.79	C3	1.14	C3	1.19	C3	11.68	C3	6.77	C3	12.81	B2						
4	"Critical" sewers - inspection by CCTV/man entry	km	2	71.62	C4	91.44	C4	151.69	C4	83.93	C4	65.60	C4	118.46	C4	117.00	C4	105.43	C4	182.44	B2						
5	"Critical" sewers - renovated	km	2	1.26	B2	4.65	B2	2.49	B2	1.52	B2	2.55	B2	3.71	B2	2.24	B2	5.98	B2	5.23	B2						
6	"Critical" sewers - replaced	km	2	5.32	B2	1.48	B2	2.76	B2	0.68	B2	2.38	B2	2.50	B2	2.11	B2	2.91	B2	1.09	B2						
7	Abandoned "critical" sewers and other changes	km	2	0.00	B2	0.16	B2	0.00	B2	0.00	B2	1.40	B2	0.00	B2	0.11	B2	0.24	B2	0.02	B2						
8	New "non-critical" sewers	km	2	110.60	C3	117.07	C3	117.78	C3	41.94	C3	63.18	C3	88.77	C3	98.64	C3	100.53	C3	132.48	B2						
9	"Non-critical" sewers - renovated	km	2	2.71	B2	2.53	B2	3.88	B2	3.96	B2	3.64	B2	4.82	B2	6.96	B2	5.69	B2	4.51	B2						
10	"Non-critical" sewers - replaced	km	2	7.80	B2	0.63	B2	5.98	B2	4.36	B2	9.95	B2	1.68	B2	19.04	B2	7.54	B2	5.70	B2						
11	Abandoned "non-critical" sewers and other changes	km	2	0.11	B2	0.29	B2	0.18	B2	0.39	B2	0.21	B2	0.60	B2	0.08	B2	0.13	B2	0.02	B2						
11a	Total length of sewers replaced or renovated	km	2	17.09	B2	9.29	B2	15.11	B2	10.52	B2	18.52	B2	12.71	B2	30.35	B2	22.12	B2	16.53	B2						
12	Sewer collapses per 1,000km	nr	1	78.5	B6	79.1	B3	75.8	B3	77.5	B3	77.3	B3	80.4	B3	74.9	B3	77.5	B3	83.9	B3						
13	Sewer blockages per 1,000km	nr	1	1,023.4	B3	998.6	B3	905.8	B3	987.9	B3	1,088.5	B3	872.1	B3	748.3	B3	695.2	B3	636.9	B3						
13a	Number of sewer blockage clearance which exceeds 6 hours	nr	0	4,199	A2	4,285	A2	3,362	A1	4,155	A1	4,960	B3	3,900	A1	4,384	A1	4,646	A1	3,744	A1						
13b	Number of sewer blockage clearance which exceeds 12 hours	nr	0	3273	A2	3,625	A2	2,586	A1	3,137	A1	3,634	B3	3,007	A1	3,510	A1	3,790	A1	3,042	A1						
13c	Number of sewer blockage clearance which exceeds 24 hours	nr	0	555	A2	708	A2	390	A1	512	A1	655	B3	498	A1	869	A1	898	A1	545	A1						
C	**ASSET BALANCE AT MARCH 31**																										
14	Total length of sewers	km	2	15,625.13	B3	15,777.29	B3	15,890.63	B3	16,009.10	B3	16,163.23	B3	16,301.61	B3	16,362.76	B3	16,480.46	B3	16,610.98	B3						
15	Total length of "critical" sewers	km	2	3,839.64	C3	3,860.69	C3	3,892.98	C3	3,930.23	C3	3,997.00	C3	4,044.91	C3	4,043.97	C3	4,079.34	C3	4,103.25	C3						
D	**INTERMITTENT DISCHARGES**																										
16a	Number of unsatisfactory intermittent discharges excluding CSOs (NIEA)	nr	0	151	C2	147	C2	143	C2	253	C2	134	C2	133	C2	323	B2	417	B2	481	B2						
16b	Number of unsatisfactory intermittent discharges CSOs (NIEA)	nr	0	270	C2	263	C2	255	C2	137	C2	253	C2	253	C2	282	B2	368	B2	461	B2						
17a	Number of intermittent discharges excluding CSOs	nr	0	1,760	B3	1,762	C2	1,766	C2	1,771	C2	1,776	C2	1,783	C2	1,784	C2	1,792	C2	1,723	B2						
17b	Number of CSOs	nr	0	800	B3	796	C2	788	C2	784	C2	784	C2	784	C2	784	C2	784	C2	721	B2						
E	**DRAINAGE AREA PLANS**																										
18	Cumulative number of drainage area plans completed	nr	0	58	A1	58	A1	79	A1	82	B2	71	B2	82	B2	84	B2	90	B2	137	B2						
19	Number of drainage area plan studies in progress at the report end of the report year	nr	0	8	A1	14	A1	23	A1	35	B2	48	B2	58	B2	72	B2	61	B2	34	B2						
20	Total sewerage drainage areas	nr	0	250	A2	250	A2	250	A2	250	B2	257	B2	255	B2	255	B2	254	B2	251	B2						
21	Cumulative % drainage area plan studies completed	%	1	23.2	A2	23.2	A2	31.6	A2	32.8	B2	27.6	B2	32.2	B2	32.9	B2	35.4	B2	54.5	B2						
22	% population/properties covered by completed studies	%	1	50.4	B3	50.2	B3	87.2	B2	82.1	B2	85.2	B2	89.0	B2	89.5	B2	89.3	B2	78.2	B2						
F	**SEWAGE TREATMENT COMPLIANCE MEASURES**																										
23	% WwTW discharges compliant with numeric consents	%	1	92.6	A1	93.4	A1	93.4	A1	94.7	A1	94.7	A1	95.2	A1	93.6	A1	93.6	A1	93.6	A1						
24	% of total p.e. served by WwTWs compliant with numeric consents	%	1	97.5	A1	93.9	A1	98.1	A1	99.3	A1	94.0	A1	99.2	A1	98.8	A1	98.9	A1	94.2	A1						
24a	% of total p.e. served by WwTWs compliant with numeric consents excluding upper tier failures	%	1	98.3	A1	98.7	A1	98.4	A1	99.3	A1	99.4	A1	99.4	A1	99.1	A1	99.0	A1	99.1	A1						
25	Small WwTW compliance (works greater than or equal to 20 p.e. but less than 250 p.e.	%	2	80.72	A1	83.99	A1	87.21	A1	86.64	A1	89.29	A1	90.91	A1	92.01	A1	92.65	A1	92.70	A1						
G	**NOMINATED SEWERAGE SERVICE OUTPUTS**																										
26	Delivery of improvements to nominated UIDs as part of a defined programme of work	nr	0	26	A2	11	A1	11	A1	8	A1	3	A1	1	A1	4	A1	3	A1	5	A1						
27	Delivery of improvements to nominated WWTWs as part of a defined programme of work	nr	0	3	A2	2	A1	2	A1	6	A1	2	A1	3	A1	1	A1	6	A1	3	A1						
28	Small WwTWs delivered as part of the rural wastewater investment programme	nr	0	4	A2	8	A2	3	A2	8	A2	9	A2	12	A2	2	A1	10	A1	4	A1						
H	**PC15 ADDITIONAL SEWERAGE SERVICE OUTPUT MEASURES**																										
29	CSO and EO discharges at which event and duration monitoring equipment has been installed	nr	0	0	B2	0	B2	0	B2	115	B2	37	B2	127	B2	52	B2	83	B2	124	B2						
30	WwTWs upgraded to comply with PPC Regulations	nr	0	0	A1	0	A1	1	A1	6	A1	7	A1	2	A1	0	A1	0	A1	0	A1						
31	Impermeable surface water collection area removed from the combined sewerage network	m2	0	28,560	B2	54,864	B2	119,200	B2	34,103	B2	59,586	B2	0	B2	1,200	B2	91,898	B2	137,676	B2						
32	Number of sustainable WwTW solutions delivered (p.e. ≥ 250)	nr	0	1	A1	1	A2	1	A2	1	A2	0	A1	0	A1	0	A1	0	A1	0	A1						
33	Number of sustainable WwTW solutions delivered (p.e. < 250)	nr	0	0	A1	1	A2	0	A2	0	A2	1	A1	1	A1	0	A1	0	A1	0	A1						
I	**PC21 ADDITIONAL SEWERAGE SERVICE OUTPUT MEASURES**																										
34	Number of current Economic Constraint Areas removed by PC21 investment	nr	0													0	A1	0	A1	0	A1						
35	Number of current Serious Development Restrictions removed by PC21 investment	nr	0													0	A1	6	A1	2	A1						

Table 16 - Sewerage Service Activities (NI Water only WWTW)

Line 1 – Total length of sewers 1 April

This value has been extracted from line 14 Table 16 of the previous AIR submission.

Line 2 – Total length of 'critical' sewers 1 April

This value has been extracted from line 15 Table 16 of the previous AIR submission.

Lines 3 to 11a – Changes during report year

The tables below show the make-up of the figures submitted for these lines.

Line	Description	CD	DS	CSD	Total(km)
3	New "critical" sewers	0.37	12.44	0	12.81
5	"Critical" sewers - renovated	4.83	n/a	0.4	5.23
6	"Critical" sewers - replaced	1.09	n/a	0	1.09
7	Abandoned "critical" sewers and other changes	0.02	n/a	0	0.02
8	New "non-critical" sewers	5.16	127.3	0	132.48
9	"Non-critical" sewers - renovated	2.89	n/a	1.62	4.51
10	"Non-critical" sewers - replaced	5.70	n/a	0	5.70
11	Abandoned "non-critical" sewers and other changes	0.02	n/a	0	0.02
11a	Total length of sewers replaced or renovated				16.53

Lines 3 and 8 – New 'critical' sewers/ new 'non-critical' sewers

Lines 3 and 8 include lengths of sewers within 'new development' which have been adopted by the Developer Services section of NI Water. The total length added to the network in AIR24 is 145.29km, compared to 107.3km in AIR23.

The critical sewer lengths have been calculated using the same methodology as AIR23.

Following discussion with AIR24 Reporter, it was agreed AIR23 confidence grade of C3 does not reflect the reliability and accuracy of the source data which would to a higher level. Lines 3 and 8 share same data source as Lines 5, 6, 9 and 10. Confidence grade has been changed to B2 for AIR24.

Line 4 - 'Critical' sewers – inspection by CCTV/man entry

Line	Description	CD	In-house	AP	Total (km)
4	'Critical sewers'- inspection by CCTV/man entry	83.7	83.48	15.26	182.44

Capital Delivery

Carried out 83.7km of CCTV work this year 23/24.

Asset Performance

Carried out 15.26km of CCTV work to address work for the Drainage Area Studies and Sewer Rehab Programme.

In-house crews

The length of CCTV executed by in-house CCTV crews is reported in AIR24 as 333.93km. In order to estimate the 'critical' sewer length this was multiplied by the overall percentage of critical sewer in the Corporate Asset Register – which is 25% = 83.48km.
Giving a total of 182.44km.

Following discussion with AIR24 Reporter, it was agreed AIR23 confidence grade of C3 does not reflect the reliability and accuracy of the source data which would to a higher level. Lines 4 shares same data source as Lines 5, 6, 9 and 10. Confidence grade has been changed to B2 for AIR24.

Lines 5, 6, 9, 10 and 11a - sewers renovated and replaced

The total length renovated and replaced (16.53km) is a decrease on the AIR23 figure of 22.12km.

NI Water is still on target to meet our targets for sewer rehab.

Confidence grades remain unchanged at B2.

Lines 7 and 11 - sewers abandoned

These lines had a return of 0.04km which is a decrease on the AIR23 figure of 0.33km. These figures were due to the abandonment of sewers only.

Lines 12-13c – Sewer collapses and blockages

General

NIW agree the number of sewer blockages and sewer collapses from the draft invoices provided by the Contractor and approved by the relevant Field Managers. For the purposes of AIR 24 submissions and moving forward the Sewer Maintenance Contractor now provides an automated monthly blocked sewer report which details the total number of blockages cleared i.e. Main Sewer, Lateral Sewer, 'Private' Sewer & instances where the Contractor attended site and reported 'No Blockage Found'.

Within this reporting year (2023/24) the number of blockages has fallen in comparison with 2022/2023 reporting period. This is due to an increased emphasis on first time resolution and improved Public & Business education and practice i.e. greater monitoring of contractor repeat blockages and pressure on contractor to improve service and fault diagnosis.

The total number of rising main failures added to the total number of gravity sewer collapses provides the number of sewer repairs for table 46 line 44. During the reporting year the figures are as follows:

26	Rising Main Failures Repaired
1079	Gravity Main Sewers Repaired
289	Gravity Lateral Sewers Repaired
1394	Total number of sewer repairs

7930	Main Sewer Blockages
2649	Lateral Sewer Blockages
10579	Total Number of sewer blockages

Of the 10579 sewer blockages, for 23/24 reporting year there were 36 incidents of actual internal flooding.

Note: There were no other sewer repairs other than those documented above.

All FOC's attributed to 23 Blockages 12 Collapses 1 Equipment Failure

NIW are now more proactive in their approach to repeat blockages, as part of the annual performance objectives all the Field Managers (FM) have been tasked to make a 1% reduction in the number of blocked sewers. This reduction is being targeted by NIW Customer Field Managers (CFM) using the resource of designated field technicians to carry out CCTV investigations on sewers that have repeat blockage complaints, any faults found are remedied, thus reducing the number of repeat incidents. NIW have now generated a new standard job that enables the contractor, when he is attending a blocked sewer, to carry out a CCTV to locate and mark any suspected defects in the pipe, these can then be repaired and this prevents further repeat blockages and a reduction in the total number of blockages annually. Under the new contract repeat blockages are recorded on the draft invoices, from the contractor, as they are not paid unless the original blockage was more than 28 days prior to the reoccurrence. These repeat blockages < 28 days are discounted from the blockage numbers.

For AIR 24 submissions & moving forward the Sewer Maintenance Contractor provides an automated monthly blockage report to NIW. This blockage report details the job created date & time and the date and time the job is completed by the Contractor on site.

- The number of rising main failures and the number of gravity sewer collapses are summated to give the total number of sewer collapses.
- The total number of sewer collapses is divided by the total length of sewers at 31 March 2024 to give the number of sewer collapses per kilometre.
- The number of sewer collapses per kilometre is multiplied by 1000 to give the number of sewer collapses per 1,000km.

Table 16 line 12 has been calculated using the figure reported for table 46 Lines 32 and 33 and the total length of sewers figure reported for Table 16 line 14.

The automated monthly blocked sewer report received from the Sewer Maintenance Contractor also includes numbers of ‘Private’ blockages cleared as a goodwill gesture and also the numbers of instances where the Contractor attended site and reported ‘No blockage found’.

Line 13 - Sewer Blockages per 1,000 Km

- The number of sewer blockages is divided by the total length of sewers at 31 March 2024 to give the number of sewer blockages per kilometre.
- The number of sewer blockages per kilometre is multiplied by 1000 to give the number of sewer blockages per 1,000km.

Table 16: line 13 has been calculated using the figure reported for table 46 Line 36 and the total length of sewers figure reported for Table 16 line 14

Lines 13a, 13b and 13c - Number of blockage clearance which exceeds 6, 12 & 24 hours

The Sewer Maintenance Contractor provides an automated monthly blockage report to NIW. The blockage report details the job created date & time, the date and time the job is completed by the Contractor on site and calculates the length of time the blockage takes to complete. The Sewer Maintenance Contractor report also details the number of ‘private’ sewer blockages cleared as a good will gesture and these are subsequently excluded from

the totals. These figures are then populated into Table 16 Lines 13a, 13b & 13c as per Utility Regulator definition.

Confidence Grading – Lines 12, 13, 13a, 13b & 13c

Because NIW are using data from checked and paid invoices (B3) and total length of sewers (B3), the confidence grade for the AIR24 L12 & L13 is B3. NIW expects this to consolidate as we move forward into AIR25 as report building continues with the single Sewer Maintenance Contractor.

The Confidence Grade for Table 16 Lines 13a, 13b & 13c is A1 on the basis of the automated monthly blocked sewer report received from the Sewer Maintenance Contractor.

Line 14 – Total length of sewers

There has been no change to the structure of the data reported on this year from the previous years that would directly affect the totals provided. The same queries have been used to extract the data from the Corporate Asset Register and have been checked to ensure that they are still relevant. The confidence grade of the data will remain the same as the previous year. Any new data will have adhered to the NIW Code of Practice for the submission of asset data ensuring that data quality levels have been maintained throughout the year.

This figure has not been calculated from Lines 1 to 11; it has been extracted using the process outlined in the methodology using data extracted from the Corporate Asset Register.

Line 15 – Total length of 'critical' sewers

The same estimation techniques have been used as in previous years and are still dependent on 3rd party datasets. The analysis performed assesses the criticality of the sewers based on size, material and depth attributes of the sewer and its location in regard to structures, roads, railways and watercourses. This is a desktop exercise based on the location and attributes of each sewer as per the definition of critical sewers in the WRc Sewerage Rehabilitation Manual. Due to the reliance on 3rd party datasets for this analysis, sewer criticality grading for individual sewers may change from previous submissions and therefore the change in total length of critical sewers may not fully align with the new critical sewers figure in T16 L3. As the result of the analysis is an estimation the confidence grade of C3 will remain in place.

This figure has not been calculated from Lines 2 to 7; it has been extracted using the process outlined in the methodology using data extracted from the Corporate Asset Register.

Lines 16a & 16b - Number of unsatisfactory intermittent discharges

This line refers to Unsatisfactory Intermittent Discharges (UIDs) confirmed by NIEA Statement of Need within the terms of the Guidelines to the UWWT Directive.

Asset Type	Total number of NIW unsatisfactory discharging assets (UIDs) (Table 16)	Total number of NIW discharging assets (Table 17)
Number of intermittent discharges excluding CSOs (NIEA)	481	1,723
Number of intermittent discharges CSOs (NIEA)	461	721
Total	942	2,444

Commentary for AIR24 Figures

- 16a figures refer to the number of unsatisfactory discharges from WwTW Boundary CSOs and Wastewater Pumping Station emergency overflows (WwPS EROs).
- 16b figures refer to the total number of unsatisfactory discharges from Combined Sewer Overflows (CSOs).
- Reported AIR24 figures are accurate as of March 2024, based on NIW's online Discharge Register. Any NIEA Statement of Need (SoN) received after this date shall be reported within AIR25 figures.
- Figures are based on NIW and PPP owned assets, therefore un-adopted and third party assets are not included within reported figures.
- WwPS with overflow subtype "none" are excluded from Table 16 reporting as they do not have an overflow and therefore do not discharge to the environment.
- Percentage breakdown of discharge status against the total number of NIW and PPP owned discharging assets:
  - 39% Unsatisfactory (confirmed by NIEA Statement of Need)
  - 11% Satisfactory
  - 52% To be determined
- UIDs which have been resolved within AIR24 (between March 2023 and March 2024) are reported within Table 40a.

Lines 17a and 17b – Number of Intermittent Discharges

This line refers to Intermittent Discharges on the sewerage system.

	Asset Type	Total No. NIW discharging Assets
17a	Number of WwPS & WwTW CSOs	1,723
17b	Number of Network CSOs	721
	Total	2,444

Commentary for AIR24 Figures

- 17a figure includes emergency overflows at Ww pumping stations, WwTW boundary overflows and storm tank discharges.
- AIR24 figures accurate as of 14/05/2024 as appearing on NIW Discharge Register. Statements of Need received after May 2024 shall be included within AIR25 figures.
- 17a&b include all discharges irrespective of status i.e. satisfactory, unsatisfactory, to be determined.

The confidence grade for these lines is B2 and is consistent with L16a&b as both share same data source.

Drainage Area Plans

Line 18 – Cumulative number of drainage area plans completed.

A Drainage Area Plan (DAP) is undertaken in four stages:

- Stage 1 – Catchment Planning
- Stage 2 – Model Build and Verification
- Stage 3 – Risk Identification
- Stage 4 – Interventions

For the purposes of Line 18, a DAP is considered to have been "completed" at the end of Stage 4 – Interventions.

As such, there has been a total of **137** DAPs completed since 2003. This comprises:

- 107 Drainage Areas where an initial new DAP was completed (including 29 in the last reporting year from 1st April 2023 to 31st March 2024 since the AIR23 submission),
- 30 Drainage Areas where the previous original DAP studies were repeated.

A breakdown of how many initial new DAPs were completed during various PC periods is provided below:

- Pre-PC10 (since 2003) = **9**
- PC10 = **10**
- PC13 = **10**
- PC15 = **43** (inc. 12*)
- PC21 = **35** (inc.18*)

(*There were a total of 12+18 = **30** DAPs completed that were repeats of a previous study, as described above).

Since the AIR23 submission, between 1st April 2023 and 31st March 2024 there have been 29 DAPs completed, these being:
Annalong DA
Annsborough DA
Antrim DA
Armagh DA
Ballyclare DA
Ballyrickard DA
Belfast DA
Cookstown DA
Culmore DA
Dromore Down DA
Dundrum DA
Enniskillen DA
Kilrea DA
Kinnegar DA
Kircubbin DA
Larne DA
Maghera DA
Magherafelt DA
Markethill DA
Newcastle DA
North Coast DA (Coleraine)
North Coast DA (Portrush)
North Coast DA (Portstewart)
North Down DA (Bangor)
North Down DA (Millisle)
Omagh DA
Stewartstown DA
Strabane DA
Waringstown DA

It is observed that, although a DAP is not considered to be fully “complete” until the end of Stage 4 (Interventions), the DAP process delivers a verified hydraulic model (and associated outputs) by the end of Stage 2 (Model Build and Verification). These data-rich deliverables are used extensively throughout NI Water to inform key decision-making. Therefore, a DAP

does not need to be formally considered as “complete” before providing substantial benefits to NI Water and other stakeholders.

It is considered that the Line 18 figure of 137 includes recounts of 30 repeated DAPs. If these were discounted it would result in an amended value of 107, which would describe the actual number of catchments with a completed DAP study, and as a result could provide a more realistic figure to take forward to the Line 21 determination (see Line 21 comments below). Currently, the unamended Line 18 figure of 137 could artificially skew the Line 21 figure.

Line 19 – Number of drainage area plan studies in progress at the report end of the report year

There are **34** drainage area plans currently being progressed and scheduled for completion during PC21.

There were 29 DAPs completed since AIR23 as noted in the Line 18 comments.

There were no DAPs initiated since AIR23.

There was 1 DAP study descoped from AIR 23, Ballykinler DA.

There are also an additional **36** DAPs which are planned to be undertaken and completed during PC21.

Therefore, it is planned that a total of **103** DAPs will be completed by the end of PC21. This would be the most DAPs delivered by NIW during a PC period and is nearly double the previous maximum delivered (55 DAPs during PC15).

Line 20 – Total sewerage drainage areas

It is noted that the Line 20 Methodology defines any catchment above 250 PE as a “Drainage Area”; however, this definition does not align with current industry guidance about minimum catchment sizes for undertaking a formal DAP. Typically, a DAP would normally only be progressed for a drainage area with a PE of 2000 or more.

There are currently **251** Drainage Areas with a PE greater than or equal to 250.

Line 21 – Cumulative % drainage area plan studies completed.

Line 21 is calculated automatically from figures in Line 18 and Line 20.

Line 22 - % population/properties covered by completed studies.

PE figures are obtained from Table 40b which receives PE figures from WwTW Headroom Capacity tables. With regards to year on year changes the following updates are applied to WwTW catchment PE figures

- Trade effluent returns – provided by the Trade Effluent Section based on billed/measured trade
- Catchment population studies – undertaken as part of a capital project or an onsite review by WW Asset Strategy team. This would include the applying of the average household size from NISRA, which may result in an overall reduction.
- The inclusion of new pointer address nodes that have been added to NI Water’s GIS system within the reporting year – this is a report generated by our Asset Information team.

The application of the above updates may result in an increase or decrease of PE.

Currently, the number of completed DAPs accounts for **78.23%** of the entire sewer network.

By the end of PC21, the number of completed DAPs will account for **95.3%** of the entire sewerage network.

Line 20 comments have noted that, as per industry guidance, a DAP will only normally be undertaken for catchments with a PE of 2000 or above. Therefore, current limitations in modelling practice will prevent achieving 100% DAP coverage of the entire sewer network, as the network includes drainage areas beneath the 2000 PE threshold.

To address this limitation there is a programme of Rural Model Builds being undertaken, which aims to provide basic model coverage for smaller-scale catchments under 2000 PE (i.e. under the PE threshold for a full DAP study).

There have been 112 Rural Models completed to date, with a further 53 more planned within PC21.

Lines 23 – 25 Sewage treatment compliance measures

Introduction

The Northern Ireland Environment Agency (NIEA) issues Water Order Consents (WOC) which set out legally binding conditions under which discharges to the aquatic environment are permitted. NI Water has in the order of 1500 WOC's covering all Waste Water Treatment Works (WWTW), Water Treatment Works and sewerage systems.

NIEA assesses compliance on a calendar year basis, against WOC and UWWTR standards to give the "official" compliance figure. However, to inform Management of progress on achieving Key Performance Indicators (KPI's) and address any potential problems, monthly reports are produced. In 2023 the KPI's related to wastewater treatment performance were:

- The percentage of WWTW serving more than 250 Population Equivalent (PE) compliant with the WOC and Urban Wastewater Treatment Regulations (UWWTR).
- The percentage PE served by compliant WWTW

Changes carried forward for AIR 24

1. For AIR 24 data the base for the WWTW in service aligns with the compliance figures of the KPI outturn and NIEA compliance assessment, which reports on all works in service at the start of the calendar year.
2. The PE data used to populate this table are the PE's derived by the Capital Maintenance Planning Team (Wastewater) for the AIR 22 Return. These same PE's were also used to calculate the number of audit samples required per site for the 2023 reporting year and agreed with (NIEA).
3. Only WWTW serving greater than 250PE with numeric standards are included. No qualifying works were excluded from the assessment, with all regulatory samples having been sampled and analysed for the regulatory parameters.
4. The list of WWTW for AIR 24 contains a number of works which have crossed sampling thresholds. Table 1, which indicates the sampling frequencies associated with WWTW PE's, is provided below.

Table 1 – Sampling Frequency Table

PE	Sampling Frequency
<250 PE	0
250 – 4,999 PE	12
5,000 – 49,999 PE	24
>50,000 PE	48

If the PE of a WWTW causes a reduction in sampling frequency, NIEA require evidence to justify the change. Evidence is required in the form of results of a flow and load survey or daily inlet sample results for a period of preferably one year but no less than six months. Table 2 indicates the WWTW affected by sampling frequency threshold changes and is provided overleaf.

Table 2 – Sampling Frequency Threshold Changes

Works Name	PE	PE Supplied by Asset Management	Threshold Being Crossed
Donaghmore	2058 (2020)	1928	2,000
Dromore (Tyrone)	2032 (2014)	1867	2,000
Garvagh	2023 (2020)	1990	2,000
Garvaghy	260 (2022)	225	250

The figures in brackets refer to the year that the sample scheduling PE data, agreed with NIEA, was applied to each of the works in Table 2, in the absence of flow and load data.

5. Only NI Water operated WWTW are included in assessment.

How the compliance is measured

Line 23 – Percentage of WWTW discharges compliant with numeric consents

The WOC specifies the number of samples to be taken per year and the parameters which have to be determined. A WWTW may fail if the required numbers of samples are not taken or the full range of parameter's are not determined.

Compliance for each WWTW was assessed on a parameter basis over a calendar year using the Look-Up Tables (LUT) of the Urban Waste Water Treatment Regulations (NI) 1995. This statistically derived methodology permits a certain number of exceedances, based on the number of samples taken, for each parameter included in the WOC e.g. where 24 samples are taken, three exceedances of each parameter are permitted. When this number of exceedances is surpassed a WWTW is deemed to fail. Table 3 in Appendix 1 details the relevant section of the Look-Up Table.

A number of WWTW have an additional clause in the consent known as an Upper Tier Limit (UTL) on the sanitary parameters of Biological Oxygen Demand (BOD, Suspended Solids (SS) and Ammonia (NH_4). One exceedance of this standard will lead to the WWTW failing for the year.

The WOC standards are contained in the Laboratory Information Management System (LIMS) and the audit sample results are automatically assessed against the standard. LIMS generates a standard report listing all WWTW with numeric standards and indicating the number of exceedances and whether the works has passed or failed. The LIMS report is accessed through:

Sample Manager/ Reporting / Sewage Reports / NIEA Monthly Reports / All sites

A small number of WWTW have nutrient standards, nitrogen and/or phosphorus, although these are assessed on an annual average. While LIMS calculates a running average, which is displayed in the report referred to previously, it does not have the facility to compare this against a standard. This requires that the average is compared manually on an ongoing basis with the WOC standard. All standards can be viewed on SharePoint at:

Asset Management/Environmental Regulation/Wastewater and Waste/Tracking/Consent database over 250 consent

Exceedances can be discounted from compliance assessment should NI Water be able to demonstrate to NIEA that, at the time of the exceedance, a works was not under normal operating conditions. The definitions of abnormal operating conditions are given in Appendix 1 but NIEA may permit discounts under other conditions e.g. skewing of performance through too many samples being lifted in a short period caused by the rescheduling of samples. Should a sample be discounted, it must be replaced by another sample taken on the same day of the week in agreement with NIEA. A replacement sample when entered on LIMS will register automatically on the compliance report.

NIEA can also issue interim time banded standards during capital upgrades of a WWTW. This is a more relaxed standard applicable for a specified period over which construction work may disrupt the normal treatment processes. When this time banded standard is entered in LIMS it is taken account in the production of the compliance report.

At monthly intervals (for the KPI and Board Reports) and at the end of the calendar year, the number of WWTW which have passed their numeric WOC was calculated as a percentage of the total number of works to determine the compliance with the target.

Line 23 Calculations – Taken from AIR 24 Calculation Spreadsheet

No. of NI Water Only WWTW's = 233
No. of failing NI Water Only works = 15
No. of passing NI Water Only works = 218

218/233 x 100 = 93.56%
Reported to one decimal place = **93.6%**

Line 24 – Percentage of Total PE Served by WWTW's Compliant with Numeric Consents

The PE served by compliant WWTW was calculated as a percentage of the PE served by the total number of WWTW. As referred to above it should be noted that Upper Tier Limits (UTL) were applied in determining this compliance. The figure reported is based on the total population.

Line 24 Calculations – Taken from AIR 24 Calculation Spreadsheet

PE of failing NI Water Only works = 114315
Total PE of NI Water Only works = 1968009
PE of passing NI Water Only works = 1853694

1853694/ 1968009 x 100 = 94.19
Reported to one decimal place = **94.2%**

Line 24a – Percentage of total PE served by WwTWs compliant with numeric consents excluding upper tier failures

The PE served by compliant WWTW was calculated as a percentage of the PE served by the total number of WWTW. As referred to above it should be noted that Upper Tier Limits (UTL) were not applied in determining this compliance. The figure reported is based on the total population.

Line 24a Calculations – Taken from AIR 24 Calculation Spreadsheet

PE of failing NI Water Only works (Exc. UT) = 18209
Total PE of NI Water Only works = 1968009
PE of passing NI Water Only works = 1949800

1949800/1968009 x 100 = 99.07
Reported to one decimal place = **99.1%**

The data reported in this table was new for AIR16. As more information is developed in future AIR reporting cycles, further commentary can be developed on emerging trends for these measures.

The application of confidence grade A1 to lines 24 and 24a is considered appropriate as these lines are reporting a percentage of total consented PE values, the values of which are agreed with NIEA. The change from C5 to A1 was made in response to the Reporter's recommendation in AIR15 commentary that a much higher confidence grade should be applied to these lines.

Kinnegar WWTW has been handed back to NI Water ownership at end April 2024, following the completion of a 25-year Public Private Partnership contract. In AIR25, this works will be reported as an NI Water works.

Line 25 - Small WwTW compliance (works greater than or equal to 20 p.e. but less than 250 p.e.)

A new compliance measure was introduced for PC15 for small works in the band 20 – 249 population equivalent (p.e.). This measure is directly linked to delivery of small works under the Rural Wastewater Improvement Project (RWIP) project. All sites to be upgraded under RWIP are agreed with NIEA. The starting position for compliance projections throughout PC15 was based on NIEA's assessment of works as passing or failing in calendar year 2013. Compliance was projected to improve year on year through delivery of works agreed with NIEA for upgrade via the RWIP project.

Lines 26-28 - Nominated Sewerage Services Outputs

Refer to Table 40a for detailed commentary on these lines.

Line 29 - CSO Monitoring

NI Water has installed 124 monitors in 23/24.

The confidence grade is unchanged at B2

Line 30 – WWTW's upgraded to comply with PPC Regulations

There are currently 29 qualifying works reported for this measure. In agreement with NIEA the PPC permit for Sion Mills WwTW was surrendered in May 2017 as the site was treating significantly less sludge than the PPC permitted daily limit of 49.3 m^3/d and a PLC inhibitor was installed.

During 2024/25, NI Water will continue to work with NIEA to identify potential additional sites for PPC permit surrender, which are in a similar position to Sion Mills.

Improvement works have been carried out at a number of sites under the PC21 Year 3 Base Maintenance Programme. These improvement works include PPC compliance measures such as odour abatement unit media replacement, sludge thickener replacements, refurbishment of sludge import screens, replacement of odour control unit blowers, replacement of sludge holding tanks and replacement of poly dosing plants.

Stage 1 odour modelling reports were completed in November 2023 for Annsborough and Bushmills WwTW, and stage 2 reports were completed in July 2023 for Ballynahinch and Saintfield WwTW.

Wastewater Sampling contract

We continue to employ a sampling contractor, RPS, to collect and transport wastewater regulatory samples to our in-house laboratory for analysis. RPS operate under United Kingdom Accreditation Service ISO 17025 quality standards and are subject to annual external audits.

A Remote Sampler App is overseen by our LIMS team and is deployed to strengthen sampling chain of custody from point of sampling through to the Laboratory Sample Reception.

Line 31 Impermeable Surface Area

NI Water removed 137,676m2 of impermeable surface water from the combined sewerage system in 23/24.

Project No.	Project Name	Impermeable Surface removed
KR588	Ravenhill Avenue, Belfast, Flood Alleviation	86,200
KI629	First Time Services Programme	25,022
KI653	First Time Services Run Rates Year 1	1,486
KB552	Ballyronan WwTW	2,135
KN676	Woodside Avenue Omagh Storm Sewer	13,743
KI674	Stormwater Separation Development Output for PC21 (Year 1-3)	4,790
KB562	Carrickfergus UID's Marine Highway Area	4,300
	Total	**137,676**

The confidence grade is unchanged at B2.

Lines 32-35 – PC15 and PC21 Additional Sewerage Service Output Measures

Refer to Table 40a for detailed commentary on these lines.

APPENDIX 1

NORMAL OPERATING CONDITIONS UNUSUAL SITUATIONS AND NORMAL LOCAL CLIMATIC CONDITIONS

1. THE REGULATIONS' TERMINOLOGY

1.1 The term "normal operating conditions" is used in paragraph 4(b) of Part II of Schedule 3; the phrase "unusual situations such as those due to heavy rain" is used in paragraph 5 of Part II of Schedule 3; "normal local climatic conditions" are referred to in regulation 4(4)(a).

2. INTERPRETATION

2.1 In order to assist in interpreting the weather conditions that might be considered to be abnormal or unusual; a definition of exceptional weather conditions is given below, together with an example of what might be considered to be other kinds of abnormal or unusual operating conditions.

2.2 The abnormal conditions set out below include capital works construction and periods of industrial action. Both are being considered by the Regulatory Committee, along with other possible exceptions suggested by other Member States. An amendment to this guidance note will be issued in the light of any guidance from the Regulatory Committee.

2.3 Definitions

2.3.1 For the purpose of this *registered standard / consent* the works shall be deemed to have been under 'normal operating conditions' except during a period when the following apply:

a. 'Unusual weather conditions' which shall include the following:
   i) low ambient temperature as evidenced by effluent temperature of 5°C or less, or by the freezing of mechanical equipment in the works;
   ii) significant snow deposits;
   iii) fluvial flooding;
   iv) weather conditions causing unforeseen loss of power to the works which could not be ameliorated by the reasonable provision and operation of standby generator facilities.

b. A reduction in the level of treatment due to periods of industrial action or acts of vandalism that could not have been reasonably prevented.

c. When the Regulator has issued a variation of the registered standard for reasons such as construction of capital works.

NORTHERN IRELAND WATER LIMITED - ANNNUAL INFORMATION RETURN

ANNUAL INFORMATION RETURN - TABLE 17a SEWERAGE EXPLANATORY FACTORS
SEWERAGE SUB - AREA EXPLANATORY FACTORS (TOTAL)

				1		2		3		4		5		6		7		8		9	
	DESCRIPTION	**UNITS**	**DP**	**AREA 1**	**CG**	**AREA 2**	**CG**	**AREA 3**	**CG**	**AREA 4**	**CG**	**AREA 5**	**CG**	**AREA 6**	**CG**	**AREA 7**	**CG**	**AREA 8**	**CG**	**Total**	**CG**
A	**SEWERAGE SUB AREAS GENERAL**																				
	Area name:-																				
1	Annual average resident connected population	000	1																	1,563.6	C3
2	Annual average non-resident population	000	1																	32.9	C3
3	Volume of sewage collected (daily average)	Ml/d	1																	360.6	B2
4	Total connected properties	nr	0																	748,297	A2
5	Area of Sewerage District	km^2	0																	13519	B2
B	**SEWERAGE DATA**																				
6	Total length of sewer	km	0																	16611	B3
C	**Costs**																				
7	Sewerage: Direct Costs	£000	0																	22,993	
8	Sewerage: Power Costs	£000	0																	9,421	
9	Sewerage: Service Charges	£000	0																	4	
10	Sewerage: General & Support Expenditure	£000	0																	13,563	
11	Sewerage: Functional Expenditure	£000	0																	36,556	

Table 17a Sewerage Explanatory Factors- Sewerage Sub-Area Explanatory Factors

Line 1 - Annual average resident connected population (Total)

The guidance for Table 17a includes the following text:
"Companies must check that the following data are consistent. Companies must explain in the commentary any reasons why this data is not consistent.

- *Annual average resident connected population in table 17a (line 1, 'total' column) plus annual average non-resident population in table 17a (line 2, 'total' column) should equal the total connected population in table 13 (line 10)"*

NI Water has not calculated the Total Annual Average Resident Connected Population independently of the Total Annual Average Non-Resident Population and the Total Connected Population. Instead, the Company has used the consistency check *(above)* to derive the Total Annual Average Resident Connected Population.

- According to AIR24: Table 13: Line 10, the total connected population (comprising resident and non-resident population) is 1,596.587 x 10^3
- According to AIR24: Table 17a: Line 2, the annual average non-resident population is 32.943 x 10^3
- By calculation, the annual average resident connected population = 1,596.587 x 10^3 - 32.943 x 10^3 = **1,563.644 x 10^3**

Significant year on year changes in reported figures including an explanation of any factors that may have influenced the figure

AIR22	Confidence Grade	AIR23	Confidence Grade	AIR24	Confidence Grade
1,549.9 x 10^3	C3	1,560.1 x 10^3	C3	**1,563.6 x 10^3**	**C3**

The estimated annual average resident sewerage connected population has increased from 1,560.1 x 10^3 in AIR23 to 1,563.6 x 10^3 in AIR24, an increase of 3.5 x 10^3 *(0.22%)*.

Confidence Grade

There are two figures associated with the calculation of AIR24: Table 17a: Line 1: Column 9. The first figure is derived from AIR24: Table 13: Line 10 and was allocated a confidence grade of B3. The second figure is derived from AIR24: Table 17a: Line 2: Column 9 and was allocated a confidence grade of C3. Since the lower of the two confidence grades is C3, a confidence grade of **C3** has been allocated to Table 17a: Line 1: Column 9.

Line 2 - Column 9 - Annual average non-resident population (Total)

AIR22	Confidence Grade	AIR23	Confidence Grade	AIR24	Confidence Grade
20.6 x 10^3	C3	33.6 x 10^3	C3	**32.9 x 10^3**	**C3**

NI Water has included holiday and tourist population connected to the sewerage system, averaged over the year.

NI Water has not included any allowance for daily commuters or day visitors.

Changes in Methodology

Background

The methodology for calculating the average non-resident sewerage population relies heavily on the ability to source a figure from available tourism statistics for the number of **non-resident visitor nights**. In the past, this figure has been available for either the most recent calendar year *(as in the case of AIR17)* or the first three quarters of the most recent calendar year *(as in the case of AIR18, AIR19 and AIR20)* but not the financial year in question.

These limitations have caused NI Water to base its reporting of the average non-resident sewerage population on a calendar year and to estimate the number of non-resident visitor nights in the calendar year when the figure has not been readily available. Estimates are based on the assumption that there is a direct relationship between the number of non-resident visitor nights and the occupancy figures for hotels and small service accommodation.

AIR24 Methodology

Continuing Impact of Covid-19 Pandemic on Northern Ireland Tourism Statistics

Tourism data is derived from a variety of sources and the COVID-19 pandemic has had a significant effect. Due to data collection issues and the quality and quantity of some data, NISRA has suspended National Statistics status for tourism data until further notice. As such, the latest full National Statistics annual accredited publication is still the 2019 edition. National Statistics status guarantees the highest standards of trustworthiness, quality and public value.

In view of the circumstances highlighted above, NI Water has continued to use the last available National Statistics accredited figure for non-resident visitor nights i.e. the figure for the 12-month period from January to December 2019 and has estimated the annual number of non-resident visitor nights in 2023.

Impact of Change in AIR24 Methodology on Reported Outturn

The change in methodology described above is not believed to have had a significant impact on the reported outturn. This can be illustrated by examining the impact that an estimate has on the calculation for Jul 18 to Jun 19 when the estimate is based on the established relationship between non-resident visitor nights and bed-spaces sold.

Ref: Tables 1.3 and 1.2 of the NISRA publications '*Northern Ireland Tourism Statistics Tables (2011 – 2020)'* dated 18/02/2021.

Total bed-spaces sold (Jul 18 to Jun 19) = 4,645,321

Estimated non-resident visitor nights (Jul 18 to Jun 19) =
4,645,321 x 2.473 = 11,486,354

Ref: Country of Residence worksheet of the NISRA publication *'Northern Ireland Tourism Statistics Microdata (January 2011 – December 2019)'* dated 22/09/2020.

- *'Estimated Overnight Trips taken in Northern Ireland by Country of Residence, Q1 2011-Q4 2019'*

Actual non-resident visitor nights (Jul 18 to Jun 19) = 12,098,471
Difference between actual and estimate =
12,098,471 - 11,486,354 = 612,116

Percentage difference = 612,116 / 12,098,471 x 100 = 5%

As the difference between the actual and estimate is within the tolerance of any previously assigned confidence grading for this measure i.e. between 1% and 5%, this is deemed to be a suitable method for estimating the number of non-resident visitor nights.

Statement detailing estimation method used including date of data on which estimate is made

Assumption: There is a direct relationship between bed-spaces sold and non-resident visitor nights.

Ref:
- *Northern Ireland Monthly Hotel Occupancy – Table 3 (Publication Date: 11/04/24)*
- *Northern Ireland Small Service Accommodation Occupancy – Table 2 (Publication Date: 11/04/24)*

Total bed-spaces sold (Jan 19 to Dec 19) = 4,778,202
Total bed-spaces sold (Jan 23 to Dec 23) = 4,862,802

Ref: Country of Residence worksheet of the NISRA publication *'Northern Ireland Tourism Statistics Microdata (January 2011 – December 2019)'* dated 22/09/2020.

- *'Estimated Overnight Trips taken in Northern Ireland by Country of Residence, Q1 2011-Q4 2019'*

Non-resident visitor nights (Jan 19 to Dec 19) = 11,814,924
11,814,924 / 4,778,202 = 2.473

Estimated non-resident visitor nights (Jan 23 to Dec 23) =
4,862,802 x 2.473 = 12,024,113

Annual average non-resident population = 12,024,113 / 365 nights = **32,943**

In obtaining the estimated number of visitor nights, NI Water has avoided the assumption specified in the guidance of *'a two-thirds occupancy rate of estimated bed-spaces available for non-residents for four months in the year'*.

Significant year on year changes in reported figures including an explanation of any factors that may have influenced the figures

The AIR19 Reporter recommended that in the absence of a published figure for the number of non-resident visitor nights for the year in question, NI Water was to recalculate the Winter Population when a published figure became available and include an update on the impact of any change in the commentary for the following year.

Unfortunately, it has not been possible to recalculate the AIR23 outturn ahead of AIR24 as the most recently published figure for the number of non-resident visitor nights is still the figure for 2019 which was used to recalculate the AIR20 outturn and which was used to estimate the AIR21 to AIR24 outturns. NI Water will recalculate the historical outturns when the corresponding numbers of non-resident visitor nights are confirmed by NISRA.

Last year, the Company reported a Table 17A Line 2 outturn of 33.6 x 10^3. Based on the AIR24 outturn of 32.9 x 10^3, the estimated annual average non-resident sewerage population has decreased by 0.7 x 10^3 *(2.08%)*. This decrease can be attributed to a decrease in the number of non-resident visitor nights. The 2024 estimate was 12,024,113 compared to the 2023 estimate of 12,274,761.

Factors impacting on tourism and winter population trends

Risks to the tourism outlook remain amid turmoil in the financial sector, persistently high core inflation, uncertainty around the impact of Russia's invasion of Ukraine and the aftermath of three years of COVID.

According to Issue 7 of the Tourism Northern Ireland publication 'Tourism 360^0':

- Cost-of-living pressures, interest rate hikes and an uncertain economic future continue to take their toll on the tourism industry, with many consumers remaining cautious and spending less.
- The guesthouse, guest accommodation and B&B sector has been progressing better than hotels in its recovery from the effects of the pandemic.
- In the first quarter of 2023, international tourist arrivals reached 80% of pre-pandemic levels with strong results expected for the summer season, backed by robust pent-up demand, the sustained recovery of air connectivity, and the reopening of China and other major Asian markets and destinations.
- At the time of publication, the World Travel and Tourism Council were forecasting that by the end of 2023, nearly half of the 185 countries would have either fully recovered to pre-pandemic levels or would be within 95% of full recovery.

Confidence Grade

The annual average non-resident sewerage population is an estimate based on several sources of information:

1. The NISRA publications *'Northern Ireland Monthly Hotel Occupancy' and 'Northern Ireland Small Service Accommodation Occupancy'* provide only an estimate of the monthly numbers of bed-spaces sold, based on the extrapolation of data for a representative sample group of establishments.
2. The NISRA publication *'Northern Ireland Tourism Statistics Microdata (January 2011 – December 2019)'* provides only an estimate of the quarterly numbers of non-resident visitor nights, based on sample surveys. The estimate therefore has an associated degree of sampling error, determined both by the sample design and by the sample size. Sample surveys include the Northern Ireland Passenger Survey (NIPS) conducted by the Northern Ireland Statistics and Research Agency (NISRA), the Survey of Overseas Travellers (SOT) conducted on behalf of Fáilte Ireland and the Household Travel Survey (HTS) conducted by Central Statistics Office (CSO).

NI Water has assigned a confidence grade of **C3** to account for known deficiencies in the reliability and accuracy of the reported figure. Although there have been changes in the methodology, data confidence is still believed to be comparable to previous years.

At the time of reporting on AIR24, the most recent non-resident visitor nights figure available was for 2019 and a figure for 2023 had to be estimated. When reporting on AIR25, NI Water will recalculate the AIR24 outturn if a published figure for 2023 is available.

Line 3 – Volume of Sewerage Collected

This figure has been copied from AIR23 Table 14 Line 7 – Volume Waste Water Returned.

Line 4 – Total Connected Properties

NI Water's data on property counts and classifications is reported monthly from RapidXtra within the Rapid Property Summary (RPS). The data is extracted from the Diamond Warehouse via Microsoft SQL Server to produce the RPS report.

Our AIR22 methodology has remained consistent with previous years – using the automated Property Model tool to populate the Table 17a Line 4 figure (this was first introduced in AIR12 – the RPS as the input).

The RPS provides us with a snapshot at the end of each month in terms of net movement; however it alone does not support in the explanation of gross movements within the data. With this in mind, during the 23/24 reporting year the C&O Services MI & Data Team explored the use of Power BI to re-create the RPS with a drill down function to display the gross movement. The Power BI property models developed take their direct feed from the Diamond Warehouse in order to refresh. These models provide us with information on gross movements and allow us to 'slice and dice' the data from various angles, providing invaluable insights. The plan is to further enhance and incorporate these models across the business during 2024/25.

Customer/Property information is updated through:

- BAU ('business as usual') customer contacts, such as new connection requests, customer move in/move outs, or
- through Data Quality initiatives/Projects, and/or
- Metering work streams e.g. UNHH (Selectives), Optants, and Proactive Meter Exchange etc.

Under the Water & Sewerage Services (2006) Order, NI Water were required to install meters on all new household connections from April 2007. This practice has stopped as directed by a change in legislation, which took effect in July 2016. The legislation was amended by Regulations, which in effect relieved NI Water of the obligation to install meters at newly connected domestic properties. As domestic customers are not charged on a measured basis, the property is reported as unmeasured. Some domestic properties were initially reported as measured in AIR10 but this was rectified as per the erratum to AIR10. Depending on the basis for charging when domestic billing is introduced, these customers can be activated as measured household if required.

The difference between the AIR23 and the AIR24 figures is 5514. The breakdown can be explained as follows:

1. New Connections during the 2023/24 reporting year. The figures are based on data supplied by our Customer Connections Team and represent completed connections during the reporting year. The projections for New Connections remain in line with the agreed PC21 forecasts, however, if we notice an upturn or downturn, we will review and amend (during the compilation of the Principal Statement)

2. Added as a result of a customer contact. i.e. septic tank empty request, no water complaint, blocked sewer, updating of standing data e.g. removal of services etc. Within this category there are 2 scenarios:
    (a) The adding of properties NI Water allegedly did not know about
    (b) The adding of duplicates as the customer's address could not be found on Rapid. Rapid may hold the site number but when the customer contacts NI Water, they quote the verified postal address, which is different, therefore creating a duplicate. The street name may also have changed from the time of New Connection to that of customer contact (street names can change in the early stages of site development).
3. Removal/reclassification of properties as a result of data quality initiatives/projects
    a. Duplicate properties
    b. Reclassification of properties that were recorded in error
4. Change in occupancy status – movement from void/vacant to occupied and vice-versa.

For NI Water, accurate property data is fundamental for many systems and processes, including customer service, metering, billing, consumption, leakage and Major Incident Planning & Response. The Rapid Customer Contact System contains the master property data for NI Water.

As Data Owner for Property Standing Data, The Head of C&OD Services is responsible for the property standing data held by NI Water; this is monitored and managed through the Corporate Property Register (CPR) Project. The C&OD Business Services MI & Data Team chair this group.

The role of the CPR project is to agree a single consistent source of property data and to ensure that there is appropriate governance, controls and reporting for changes made to core data on the system. As Property Data Owners, we need to ensure the processes around creation, maintenance and demolition of properties are governed and appropriate control points and associated reporting are in place. Control is key for us; as such we have identified the systems, processes and people using property information across the business, alongside confirming data accuracy and endeavouring to reduce the opportunities for erroneous data entry and creation (such as the inability to recreate demolished properties or duplicate properties).

The issues under consideration were identified as of corporate relevance, therefore, to ensure appropriate direction and governance the CPR was formalised. Key objectives include:

1. To agree a single consistent source of property data.
2. To ensure the source property data represents accurate, up-to-date information appropriate for use by the business.
    a. To understand and agree data primacy in respect of data updates from NI Water and external (Land & Property Services - LPS) sources
    b. To ensure the processes around creation (i.e. New Connections), maintenance and demolition of properties are governed and appropriate control points and associated reporting are in place. i.e. through data validation
    c. To co-ordinate property reconciliations between NI Water & external sources i.e. Data Sharing Agreements between NI Water & LPS, NI Water & Belfast City Council (BCC) etc and understand the reasons and validity of any differences

   d. To understand and ensure the adequacy of long term procedures for database maintenance, including the updating of data standards and associated CDE M&M Plans
3. To ensure the reporting requirements for the business are met relating to data held on Rapid, particularly, but not exclusively, in respect of tariffs, leakage, Annual Information Returns (AIR) & Principal Statement (PS) returns.
4. Challenge the data in the areas of
   a. Data categorisation & structure
   b. Data robustness – i.e. where is our data good and where is there opportunity for improvement? Identify projects that could aid improvement
   c. Data alignment – both internally and externally. Internally between systems such as Rapid, Ellipse, GIS, Diamond, Netbase, IMS etc. Externally through data reconciliations, such as LPS above.
5. To agree measures to improve the quality and integrity of the data, particularly the key CDEs as monitored by IMU
6. To agree the content and frequency of reports required by NI Water.
7. To agree the quality checking criteria for the above data and reporting and develop a Quality Plan including the determination of responsibilities and audit trails.
8. To produce & circulate an 'operate and maintain' programme for property data to the business.

The focus for the CPR project remains the same, including analysis and action on:

- Creation of an agreed single consistent source of property information, running alongside the CBC3 timelines
- Volume of properties coming onto the Rapid billing system on a monthly basis
  - new connections
  - customer contact
  - project work
- Volume of properties coming off the Rapid billing system (demolished)
  - sample check to ensure reason for demolition has been noted and on system audit trail recorded
- Volume of properties amended on the Rapid billing system
  - In particular, address fields -> building number, street name, town and postcode
  - sampling to identify if the data changes are data improvement or data regression
  - if data regression, further analysis into the process is undertaken
- Review of access privileges
  - Rapid audit
  - Through monthly audit samples
  - Internal CRs require sign off from CPR team as BAU
  - Working with Echo to review access privileges on an ongoing basis
- Interruptions to supply notices – returned mail
  - This returned mail has been previously brought to the attention of LPS and include properties that LPS have classified as live properties despite being returned as 'no such address' etc
  - The 2 way communication with LPS will help underpin our governance work and provide direction to the business on practices

Annex A details the Line Methodology followed to produce the figures for Table 17a Lines 3-4.

Line 5 - Area of sewerage district

The figure provided equates to the total land mass of Northern Ireland excluding major bodies of inland water. The same LPS product has been used to determine the Area of Sewerage District as was used in the previous AIR submission. There remains only one sewerage district for all of Northern Ireland. The confidence grade of the data will remain the same as the previous year.

Line 6 - Total length of sewer

There has been no change to the structure of the data reported on this year from the previous years that would directly affect the totals provided. The same queries have been used to extract the data from the Corporate Asset Register and have been checked to ensure that they are still relevant. The confidence grade of the data will remain the same as the previous year. Any new data will have adhered to the NIW Code of Practice for the submission of asset data ensuring that data quality levels have been maintained throughout the year.

Lines 7-11

The overall approach and allocation process for Table 17a has not changed since AIR08. There are still some limitations, and it has not been possible to fully complete the Information Returns for 2023-24. Work is ongoing, through the Cost to Serve Project. Cost to Serve is not fully implemented and therefore could not be used for AIR24. The figures populated in Column 9 have been taken from Table 22 (NIW only).

Line 7 – Direct Costs

It is not yet possible to split the costs into areas. A total figure has been supplied in Column 9 which agrees to the direct sewerage costs in Table 22, column 1 line 9. See Table 22 commentary. Direct Costs have decreased by circa £0.9M from AIR23.
The main reason for this was decreased power costs (see below) and increased Employment Costs.

Line 8 – Power Costs

The figure for Power costs agrees to Table 22, line 2 column 1. See Table 22 commentary. Power costs have decreased by £1.9M from AIR23 due to decreased energy tariffs.

Line 9 – Services Charges

The figure for Service Charges agrees to Table 22, line 7 column 1. They are minimal for AIR24.

Line 10 – General & Support

The figure for General & Support expenditure agrees to Table 22, line 10 column 1. See Table 22 commentary and methodology. These costs have increased by £3.5m from AIR23.

Line 11 – Functional Expenditure

This is a calculated cell and is the total of line 7 and line 10. This figure agrees to Table 22, line 11 column 1. The costs in this line have increased by approx. £2.6m since AIR23. This is due to the combination of lower power costs, higher Employment Costs and high General and Support Costs.

Annex A Table 4 Lines 6-8 - Total Connected Properties

Total properties connected for sewerage services (including voids) at year end.

This figure is taken from the AIR24 Rapid Property Summary, as attached.

RPS March 24.xlsx

Total Gross Sewerage Properties	End March 2024
Household – Unmeasured	665311
Household - Sewerage Only	10
Household – Measured - Not Charged (test meters)	3
Household – Measured	34460
Household – Site Meters	3067
Household - Unmeasured - Not Charged	13
Non-Household - Unmeasured	13671
Non-Household – Sewerage only	19
Non-Household - Measured	31743
Total	**748297**

NORTHERN IRELAND WATER LIMITED - ANNUAL INFORMATION RETURN

ANNUAL INFORMATION RETURN - TABLE 17b SEWERAGE EXPLANATORY FACTORS
SEWAGE TREATMENT WORKS - LARGE WORKS INFORMATION DATABASE (NIW Only

	DESCRIPTION	UNITS	DP	TOTAL	1	CG	2	CG	3	CG	4	CG	5	CG	6	CG	7	CG	8	CG	9	CG	10	CG	11	CG	12	CG	13	CG	14	CG	15	CG
1	Works Name				Belfast		Culmore		Ballymena		Whitehouse		North Coast		Newry		Lisburn		Antrim		Dunmurry		Omagh		Dungannon		Newtownbreda		Carrickfergus		Enniskillen		Larne	
A	**WORKS SIZE**																																	
2	Population equivalent of total load received	000	0	1,528	562	C5	168	C5	83	C5	111	C5	83	C5	65	C5	75	C5	67	C5	51	C5	38	C5	101	C5	37	C5	32	C5	27	C5	28	C5
B	**EFFLUENT CONSENT STANDARD**																																	
3	Suspended solids consent	mg/l	0		50	A1	50	A1	25	A1	50	A1	50	A1	50	A1	15	A1	20	A1	25	A1	50	A1	40	A1	30	A1	50	A1	30	A1	50	A1
4	BOD5 consent	mg/l	0		30	A1	30	A1	15	A1	30	A1	30	A1	30	A1	10	A1	10	A1	10	A1	30	A1	25	A1	15	A1	30	A1	20	A1	30	A1
5	COD consent	mg/l	0		125	A1	125	A1	125	A1	125	A1	125	A1	125	A1	125	A1	125	A1	125	A1	125	A1	125	A1	125	A1	125	A1	125	A1	125	A1
6	Ammonia consent	mg/l	1				10.0	A1	3.0	A1							2.5	A1	15.0	A1	2.5	A1	10.0	A1	7.0	A1	5.0	A1			10	A1		
7	Phosphates consent	mg/l	1						1.0	A1							2.0	A1	1.0	A1	2.0	A1	2.0	A1	1.0	A1	2.0	A1			1	A1		
C	**TREATMENT CATEGORY**																																	
8	Classification of Treatment Works				TA2		SAS		TA2		TA2		SAS		SAS		TA2		TA2		TA2		TA2		TA2		TA2		TA2		TA2		TA2	
D	**COSTS**																																	
9	Direct cost	£000	0	9,015	1,931		533		588		547		417		691		569		481		502		307		772		401		427		403		446	
10	Power costs	£000	0	6,555	1,704		513		467		399		321		430		436		344		291		158		448		264		256		231		293	
11	Service Charges	£000	0	222	17		0		13		14		5		20		14		15		22		15		30		14		18		9		16	
12	General and support expenditure	£000	0	5,241	397		0		302		336		108		481		318		353		524		353		714		339		429		212		375	
13	Functional expenditure	£000	0	14,256	2,328		533		890		883		525		1,172		887		834		1,026		660		1,486		740		856		615		821	
14	Estimated terminal pumping costs	£000	0	0																														
15	Estimated sludge costs	£000	0	0																														

Table 17b – Sewerage Explanatory Factors (NIW only)
Sewage Treatment Works – Large Works Information Database

Lines 1- 8

NI Water has a number of sites which fall into the Band 6 category and are to be reported within this submission.

The WWTW to be reported on for AIR24 are:

LIMS Code	LIMS Name	Confirmed PE	AIR21 Band	BOD WOC	BOD UWWTR
S15AO	Antrim (Milltown) WWTW	67432	Band 6	10	25
S13BE	Ballymena (Tullaghgarley) WWTW	82586	Band 6	15	25
S34AK	Belfast WWTW	562029	Band 6	30	25
S34AG	Carrickfergus WWTW	31556	Band 6	30	25
S43CI	Culmore WWTW	168186	Band 6	30	25
S25AC	Dungannon (Moygashel) WWTW	100682	Band 6	25	25
S37AB	Dunmurry WWTW	51060	Band 6	10	25
S47HK	Enniskillen WWTW	27162	Band 6	20	25
S15BS	Larne WWTW	27558	Band 6	30	25
S37AA	Lisburn (New Holland) WWTW	74756	Band 6	10	25
S27AC	Newry WWTW	64578	Band 6	30	25
S34AD	Newtownbreda WWTW	37175	Band 6	15	25
S17HF	North Coast WWTW	82593	Band 6	30	25
S45IB	Omagh WWTW	38024	Band 6	30	25
S34AE	Whitehouse WWTW	111038	Band 6	30	25

No assumptions have been made for the return.

All consents reported have both BOD and SS as part of the consent as issued by Northern Ireland Environment Agency (NIEA).

There are no consents for ammonia by itself without accompanying BOD and SS consents.

The consent conditions as issued by NIEA are based on 95%ile limits.
For the purposes of reporting the WOC BOD limit has been reported for all WWTW's. It should be noted that in some instances, the UWWTR BOD limit of 25mg/l is lower, as identified in the table above.

For reference, the works in Band 5 which have the potential to be included in subsequent returns are listed here:

LIMS Code	LIMS Name	Confirmed PE	AIR21 Band
S17ED	Ballycastle	12831	Band 5
S15AA	Ballyclare	20324	Band 5
S17BP	Ballymoney	22416	Band 5
S27AA	Banbridge	24344	Band 5
S25AB	Coalisland	10825	Band 5
S13CH	Cookstown	23254	Band 5
S36AA	Downpatrick	18909	Band 5

LIMS Code	LIMS Name	Confirmed PE	AIR21 Band
S34AH	Greenisland	13424	Band 5
S36BB	Kilkeel	14044	Band 5
S43GI	Limavady	16603	Band 5
S13GK	Magherafelt	19279	Band 5
S36BO	Newcastle	17426	Band 5
S45JA	Strabane	22492	Band 5
S27AN	Tandragee	10020	Band 5
S27AD	Warrenpoint	15808	Band 5

Lines 9-15

This table was populated in the same way as AIR23. The costs are a further breakdown by location of the Band 6 expenditure detailed in Table 17f line 6. It is populated with the information available for the year ended 31 March 2024. The Population Equivalent (PE) information used to complete this table was received from Asset Delivery on 29th May 2024. No PPP costs are included in this table.

Line 9 – Direct Costs

Direct costs include power 521x, contractors 531x, other contractors 532x, materials 541x, chemicals 548x, cost reallocations 611x (this includes direct labours costs and & overhead charges) and service charges.
In AIR24 there are 15 works that fall into Band 6, which is the same as AIR23.
Direct costs have decreased by approx. £2.8M from AIR23. This is mainly due to decreased Power Costs.

Line 10 – Power Costs

Through the cost to serve project all power costs are allocated to individual sites and a report was taken from EAM to get the full year power cost per WWTW's. The power costs have decreased by £2.5M since AIR23 (see Table 22 commentary). Belfast WWTW's was treated separately as there is one electricity meter at Duncrue Street which includes the costs for the Belfast WWTW's and the two Incinerators operated by PPP. The power team supplied an estimated 51:49 split between the Belfast WWTWs and the Incinerators (based on an estimated KWhr usage and a number of sub-meters) which has been used to calculate the amount relating to Sewage Treatment at Belfast WWTW's. The split in AIR23 was 44:56 for the Belfast and Incinerators. No costs for the Incinerator have been included in this table in AIR24.

Line 11 – Service Charges

Service Charges for AIR24 are in line with AIR23

Line 12 – General & Support

The total general & support expenditure was taken from Table 22 line 10 column 2 (see Table 22 methodology and commentary). This figure was apportioned across all the WWTWs in this table based on the cost reallocations 611X (this includes direct labours costs & overhead charges). There is a small increase £0.1m for AIR24 from AIR23. See commentary on Table 22 for further breakdown and explanation.

Line 13 – Functional Expenditure

This is a calculated line and is the total of line 9 and line 12. The total in the workings agrees to Table 22 (NIW Only) column 2 line 11. Costs have decreased by £2.7M since AIR23 (see commentary above).

Line 14 – Terminal Pumping Costs

This information was populated in the same way as AIR23. No Power costs for Terminal Pumping Stations have been included in the table.

Line 15 – Sludge Costs

Sludge treatment is a separate activity in the accounts and the direct costs are not included in line 9 to line 13.

NORTHERN IRELAND WATER LIMITED - ANNUAL INFORMATION RETURN

ANNUAL INFORMATION RETURN - TABLE 17c SEWERAGE EXPLANATORY FACTORS
SEWAGE TREATMENT WORKS - NUMBERS (NIW Only)

	DESCRIPTION	UNITS	DP	1	2	3	4	5	6	7	8	9	10	11
				TREATMENT CATEGORY										TOTAL
					SECONDARY		TERTIARY				SEA OUTFALLS			
				PRIMARY	ACTIVATED	BIOLOGICAL	A1	A2	B1	B2	PRELIMINARY TREATMENT	SCREENED	UNSCREENED	
A	**SMALL WORKS**													
1	Number of STWs in size band 1	nr	0	236	17	514	0	0	3	2	0	0	4	776
2	Number of STWs in size band 2	nr	0	0	5	36	3	1	9	6	0	0	0	60
3	Number of STWs in size band 3	nr	0	1	13	47	6	12	15	8	2	0	1	105
4	Number of STWs in size band 4	nr	0	1	15	7	2	15	2	4	3	1	0	50
5	Number of STWs in size band 5	nr	0	0	5	0	2	7	0	1	0	0	0	15
B	**LARGE WORKS**													
6	Number of STWs in size band 6	nr	0	0	3	0	0	12	0	0	0	0	0	15
7	Total numbers of STWs	nr	0	238	58	604	13	47	29	21	5	1	5	1021
C	**SMALL WORKS WITH AMMONIA CONSENTS**													
8	Number of small STWs with NH_3 consent (5 - 10mg/l)	nr	0	44										
9	Number of small STWs with NH_3 consent (< = 5mg/l)	nr	0	61										

NORTHERN IRELAND WATER LIMITED - ANNUAL INFORMATION RETURN

ANNUAL INFORMATION RETURN - TABLE 17c SEWERAGE EXPLANATORY FACTORS
SEWAGE TREATMENT WORKS - NUMBERS (PPP Only)

	DESCRIPTION	UNITS	DP	1	2	3	4	5	6	7	8	9	10	11
				TREATMENT CATEGORY										TOTAL
					SECONDARY		TERTIARY				SEA OUTFALLS			
				PRIMARY	ACTIVATED	BIOLOGICAL	A1	A2	B1	B2	PRELIMINARY TREATMENT	SCREENED	UNSCREENED	
A	**SMALL WORKS**													
1	Number of STWs in size band 1	nr	0											0
2	Number of STWs in size band 2	nr	0											0
3	Number of STWs in size band 3	nr	0											0
4	Number of STWs in size band 4	nr	0				1							1
5	Number of STWs in size band 5	nr	0					1						1
B	**LARGE WORKS**													
6	Number of STWs in size band 6	nr	0		1			3						4
7	Total numbers of STWs	nr	0	0	1	0	1	4	0	0	0	0	0	6
C	**SMALL WORKS WITH AMMONIA CONSENTS**													
8	Number of small STWs with NH3 consent (5 - 10mg/l)	nr	0	0										
9	Number of small STWs with NH3 consent (< = 5mg/l)	nr	0	2										

NORTHERN IRELAND WATER LIMITED - ANNUAL INFORMATION RETURN

ANNUAL INFORMATION RETURN - TABLE 17c SEWERAGE EXPLANATORY FACTORS
SEWAGE TREATMENT WORKS - NUMBERS (Total)

	DESCRIPTION	UNITS	DP	1	2	3	4	5	6	7	8	9	10	11
				TREATMENT CATEGORY										TOTAL
					SECONDARY		TERTIARY				SEA OUTFALLS			
				PRIMARY	ACTIVATED	BIOLOGICAL	A1	A2	B1	B2	PRELIMINARY TREATMENT	SCREENED	UNSCREENED	
A	**SMALL WORKS**													
1	Number of STWs in size band 1	nr	0	236	17	514	0	0	3	2	0	0	4	776
2	Number of STWs in size band 2	nr	0	0	5	36	3	1	9	6	0	0	0	60
3	Number of STWs in size band 3	nr	0	1	13	47	6	12	15	8	2	0	1	105
4	Number of STWs in size band 4	nr	0	1	15	7	3	15	2	4	3	1	0	51
5	Number of STWs in size band 5	nr	0	0	5	0	2	8	0	1	0	0	0	16
B	**LARGE WORKS**													
6	Number of STWs in size band 6	nr	0	0	4	0	0	15	0	0	0	0	0	19
7	Total numbers of STWs	nr	0	238	59	604	14	51	29	21	5	1	5	1027
C	**SMALL WORKS WITH AMMONIA CONSENTS**													
8	Number of small STWs with NH3 consent (5 - 10mg/l)	nr	0	44										
9	Number of small STWs with NH3 consent (< = 5mg/l)	nr	0	63										

Table 17c Sewage Treatment Works Numbers

NIW only

It should be noted that the banding of the WWTWs is based on the latest Populations Equivalents minus tourist PEs (i.e. hotels and caravan parks only as information does not exist on proportion of PE to commuters). PEs for 102 WWTWs (which were live during AIR24) have been updated.

Changes regarding WWTWs from the AIR23 period are as follows:

- 3 WWTWs have been upgraded and achieved operational beneficial use in the last financial year – i.e. Derrycrin, Mountfield, Pomeroy WwTW ;
- 4 WWTWS had achieved 'operational beneficial use' under the RWwIP project (Eglish (Armagh), Lisnamuck(Coleraine), Tirquin, Tursallagh) ;

There has been no net decrease of WWTWs from AIR23 reporting, with 1021 WWTW live on 31st March 2024.

The total number of WWTWs in Table 17c line 7 is the total of all works in this table i.e. 1,021 including the screened outfalls (2 No.) and the unscreened outfalls 5 No). The number of WWTWs in Table 15 line 8 is 1,015 as the screened and unscreened outfalls are not to be included in the total for this line.

The UR Chapter 17c guidance also requests the following cross check to be carried out, which has been completed:

- The number of large WWTWs in each treatment category in table 17c (line 6, columns 1-10) should equal the corresponding total number of large WWTWs reported in table 17b (line 8) – which for AIR24 is 15 No WWTWs.

It should be noted that the AIR24PEs, used to populate tables 17c and 17d, were forwarded to others within the organisation who are responsible for the population of tables 17b and 17f, which should ensure consistency of reporting.

It should be noted that the Residential PE for most of the NIW WWTWs has been derived from GIS pointer data and that inaccuracies do exist in that some residential properties are labelled as commercial or industrial, and visa-versa.

The Reporters report for AIR09 recommended that a consistent approach for population figures used in the 17 series tables should be adopted. The population figures used in Table 17c are the same as in 17d. These figures have also been supplied to the other parts of the business which populate Tables 17a, 17b & 17f etc., so population figures should be consistent.

With reference to the WWTWs in Size Band 1:

- the number of WWTWs with a PE less than or equal 100 (excluding tourist PE) is 691, and
- the number of WWTWs with a PE greater than 100 but less than or equal to 250 (excluding tourist PE) is 85.

The table below highlights the changes in band sizes from AIR23 to AIR24.

Name of Works	CAR ID	AIR23 Band Sizes	AIR24 Band Sizes	Comment
Martinstown	S01445	Band 3	Band 2	PE Study by APT

The table below highlights the changes in treatment category from AIR23 to AIR24.

Name of Works	CAR ID	AIR23 Treatment Category	AIR24 Treatment Category	Comment
Derrycrin	S01567	Ter B1	Sec Bio	BU (17/11/2023,RBC treatment for FA)
Tursallagh	S03235	Sec Act	Sec Bio	RWwIP output, Design PE increased, BU (Date TBC) RBC

Difference between AIR23 and AIR24 for total in Table 17c (column 11, row 7)

Total Number of Works for AIR23 -	**1,021**
Total Number of Works for AIR24 -	**1,021**
Total Difference -	**0**

With reference to lines 8 and 9, data regarding the ammonia consents of the Small WWTWs (Bands 1 to 5 inclusive) was obtained from a spreadsheet of standards obtained from the Environmental Regulation Team.

Changes to lines 8 and 9 of this table, from AIR23 to present are summarised below:

Line	NrAIR23	Nr AIR24	Difference	Comment
8	44	44	0	No consent changes during AIR23 with regards to Line 8 Net change - zero
9	61	61	0	No consent changes during AIR23 with regards to Line 9 Net Change -zero

It is to be noted that NIEA did not recognise the AIR15 PEs for the WWTWs in the table below and will probably not recognise the updated AIR23 PEs for these sites, for compliance reporting. They view the PEs in the last column of the table as the PEs to be used for the latter. NIEA require daily flow and load studies for a full year to substantiate drops in PE which cross UWWTD boundaries i.e. 2000pe, 50,000pe and 100,000pe. These flow and load studies were not identified in the PC21 Business Plan submission and are not currently prioritised for inclusion in the capital works programme.

WWTWs	Site ID	AIR24 Actual PE	Actual PE recognised by NIEA
Dromore (Tyrone)	S03083	1,868.5	2,032
Donaghmore	S02840	1,862.3	2,058

PPP

Lines 1-6

There are no changes from AIR23. The category of Richill STW remains Category 4 as adjusted in AIR20.

Line 9

There are no changes from AIR23. The category of Richill STW remains Category 4 as adjusted in AIR20.

Specific required commentary

- There are no doubts about the classification of any of the PPP works.
- The data is consistent with the data provided on Table 15 Line 8 (PPP Only) table.
- Based on the calculated loads treated at the PPP sewage works in the AIR24 Reporting period, there are no size band 1 PPP works on which to provide extra detail.

NORTHERN IRELAND WATER LIMITED - ANNUAL INFORMATION RETURN

ANNUAL INFORMATION RETURN - TABLE 17d SEWERAGE EXPLANATORY FACTORS
SEWAGE TREATMENT WORKS - LOADS (NIW Only

	DESCRIPTION	UNITS	DP	1	2	3	4	5	6	7	8	9	10	11	
				TREATMENT CATEGORY											
					SECONDARY		TERTIARY				SEA OUTFALLS				
				PRIMARY	ACTIVATED SLUDGE	BIOLOGICAL	A1	A2	B1	B2	PRELIMINARY TREATMENT	SCREENED	UNSCREENED	TOTAL	CG
A	**SMALL WORKS**														
1	Load received by STWs in size band 1	kg BOD_5/day	0	145	79	1,501	0	0	61	24	0	0	14	1,823	C3
2	Load received by STWs in size band 2	kg BOD_5/day	0	0	130	751	69	20	191	130	0	0	0	1,291	C3
3	Load received by STWs in size band 3	kg BOD_5/day	0	77	1,060	2,721	331	916	1,023	656	307	0	42	7,132	C3
4	Load received by STWs in size band 4	kg BOD_5/day	0	354	3,879	1,421	400	4,392	346	1,156	932	217	0	13,097	C3
5	Load received by STWs in size band 5	kg BOD_5/day	0	0	4,716	0	1,784	8,063	0	1,157	0	0	0	15,720	C3
B	**LARGE WORKS**														
6	Load received by STWs in size band 6	kg BOD_5/day	0	0	18,922	0	0	72,664	0	0	0	0	0	91,585	C3
7	Total loads rec'd (daily average all size bands)	kg BOD_5/day	0	576	28,784	6,394	2,583	86,055	1,620	3,124	1,239	217	56	130,647	C3
C	**SMALL WORKS WITH AMMONIA CONSENTS**														
8	Load rec'd by small STW w. NH_3 consent (5 - 10mg/l)	kg BOD_5/day	0	5,133											
9	Load rec'd by small STW w. NH_3 consents (< = 5mg/l)	kg BOD_5/day	0	14,987											

NORTHERN IRELAND WATER LIMITED - ANNUAL INFORMATION RETURN

ANNUAL INFORMATION RETURN - TABLE 17d SEWERAGE EXPLANATORY FACTORS
SEWAGE TREATMENT WORKS - LOADS (PPP Only)

	DESCRIPTION	UNITS	DP	1	2	3	4	5	6	7	8	9	10	11	
				TREATMENT CATEGORY											
					SECONDARY		TERTIARY				SEA OUTFALLS				
				PRIMARY	ACTIVATED SLUDGE	BIOLOGICAL	A1	A2	B1	B2	PRELIMINARY TREATMENT	SCREENED	UNSCREENED	TOTAL	CG
A	SMALL WORKS														
1	Load received by STWs in size band 1	kg BOD5/day	0											0	0
2	Load received by STWs in size band 2	kg BOD5/day	0											0	0
3	Load received by STWs in size band 3	kg BOD5/day	0											0	0
4	Load received by STWs in size band 4	kg BOD5/day	0				134							134	B3
5	Load received by STWs in size band 5	kg BOD5/day	0					843						843	B3
B	LARGE WORKS														
6	Load received by STWs in size band 6	kg BOD5/day	0		5,358			15,312						20,670	B3
7	Total loads rec'd (daily average all size bands)	kg BOD5/day	0	0	5,358	0	134	16,155	0	0	0	0	0	21,647	B3
C	SMALL WORKS WITH AMMONIA CONSENTS														
8	Load rec'd by small STW w. NH3 consent (5 - 10mg/l)	kg BOD5/day	0	0											
9	Load rec'd by small STW w. NH3 consents (< = 5mg/l)	kg BOD5/day	0	977											

NORTHERN IRELAND WATER LIMITED - ANNUAL INFORMATION RETURN

ANNUAL INFORMATION RETURN - TABLE 17d SEWERAGE EXPLANATORY FACTORS

SEWAGE TREATMENT WORKS - LOADS (Total)

	DESCRIPTION	UNITS	DP	1	2	3	4	5	6	7	8	9	10	11	
				TREATMENT CATEGORY											
					SECONDARY		TERTIARY				SEA OUTFALLS				
				PRIMARY	ACTIVATED SLUDGE	BIOLOGICAL	A1	A2	B1	B2	PRELIMINARY TREATMENT	SCREENED	UNSCREENED	TOTAL	CG
A	SMALL WORKS														
1	Load received by STWs in size band 1	kg BOD5/day	0	145	79	1,501	0	0	61	24	0	0	14	1,823	C3
2	Load received by STWs in size band 2	kg BOD5/day	0	0	130	751	69	20	191	130	0	0	0	1,291	C3
3	Load received by STWs in size band 3	kg BOD5/day	0	77	1,060	2,721	331	916	1,023	656	307	0	42	7,132	C3
4	Load received by STWs in size band 4	kg BOD5/day	0	354	3,879	1,421	534	4,392	346	1,156	932	217	0	13,231	C3
5	Load received by STWs in size band 5	kg BOD5/day	0	0	4,716	0	1,784	8,906	0	1,157	0	0	0	16,563	C3
B	LARGE WORKS														
6	Load received by STWs in size band 6	kg BOD5/day	0	0	24,280	0	0	87,976	0	0	0	0	0	112,255	C3
7	Total loads rec'd (daily average all size bands)	kg BOD5/day	0	576	34,142	6,394	2,717	102,210	1,620	3,124	1,239	217	56	152,294	C3
C	SMALL WORKS WITH AMMONIA CONSENTS														
8	Load rec'd by small STW w. NH3 consent (5 - 10mg/l)	kg BOD5/day	0	5,133											
9	Load rec'd by small STW w. NH3 consents (< = 5mg/l)	kg BOD5/day	0	15,964											

Table 17d - Sewage Treatment Works Loads

NIW only

It should be noted that the banding of the WWTWs is based on the latest Population Equivalent minus tourist PEs (i.e. hotels and caravan parks only as information does not exist on proportion of PE to commuters). PEs for 102 WWTWs (which were live during AIR24) have been updated.

The allowance for the tourist population, which has been deducted for the purposes of band size determination, has been the proportion of PE allocated to hotels, and caravan and tent pitches only. No deduction has been made for commuters as such information has not been captured.

The loads reported in this table are the sums of the loads received by each WWTWs or outfall in each particular category, and hence include the proportion of PE allocated to hotels, and caravan and tent pitches. Hence the loads reported in this table include the non-resident population.

1,021 WWTWs were reported on in Table 17d for AIR24. This represents a decrease of 0 in the number of WWTWs being reported from AIR23 to AIR24.

The Water and Sewerage Services (NI) Order 2006 designated that the discharge from hospitals, nursing homes & clinics should no longer be considered as Trade Effluent, therefore for AIR24 these have been removed from the Trade Effluent Submission. For the majority of hospitals a certain % of hospital discharges have been included due to discharges from x-ray departments and bathing pools. The PEs for the hospitals has been factored up to 100% of their total discharge to give a more accurate figure of load discharging to the sewerage network.

We have assumed the Bands to be:

Small works

a. size band 1 <= 15kg BOD5/day (population equivalent: 0 - 250)
b. size band 2 >15 but <= 30kg BOD5/day (population equivalent: 251 - 500)
c. size band 3 >30 but <= 120kg BOD5/day (population equivalent: 501 – 2,000)
d. size band 4 >120 but <= 600kg BOD5/day (population equivalent: 2,001 –10,000)
e. size band 5 >600 but <= 1500kg BOD5/day (population equivalent: 10,001 – 25,000)

Large works

f. size band 6 > 1500kg BOD5/day. (population equivalent: > 25,000)

It should be noted that the bandings of b, c, d and e above are slightly different from those listed in the UR Chapter 17c guidance, to ensure no duplication of works which may have 250, 500, 2000 or 10,000 PE.

The total number of WWTWs in Table 17c line 7 is the total of all NIW only works in this table i.e. 1,021 including the screened outfalls (1 No.) and the unscreened outfalls (5 No.).

The Reporters Report on AIR09 recommended that NIW correct possible overestimation of total WWTW loads due to the inclusion of offices/commercial premises. The majority of the residential and non-residential element of PEs used to calculate tables 17c and 17d was based on Pointer information from MapInfo.

However, it should be noted that the non-residential element of Pointer is made up of both commercial and unknown properties. At this present time it is not known what proportion of the unknowns are actually residential and which are non-residential and therefore it has been decided to include both elements when calculating the PEs for the band sizes.

It is difficult to estimate the proportion of load at a WWTW due to commuters, or the load which should be deducted from/added to a particular WWTW due to population commuting out of/into the catchments, which that WWTW serves. Hence no allowance to WWTWs loads has been made either way for Table 17d.

The only allowance made for newly connected properties is where a population studies have been carried out for a drainage catchment during the reporting year and the recommendations have been considered and agreed upon. Where a population study has not been completed for a drainage catchment no allowance has been made for newly connected properties. It should be noted that some drainage catchments may not have had a population review undertaken for several years. Going forward the exercise explained under 'Future Improvement' above will address this shortfall.

The confidence grades of the data in lines 1 - 7 remain as C3 as stated in AIR20.

The reporter also recommended in AIR11 that significant variances in load of WWTWs (i.e. greater than 15%) should be investigated. Below is a table detailing these sites and the reason for the change in PEs. There are 5 no. WWTWs included in the table.

Name of Works	**CAR ID**	**AIR23 Actual PE**	**AIR24 Actual PE**	**Difference* *(-ve indicates AIR23 figure larger)**	**Comments**
Ardglass (WWTW)	S00268	2441.6	3124.8	683.2	TE Update
Blackstaff (Septic Tank)	S00219	34.2	26.0	-8.2	Population report completed by RWwIP
Carran Hill (WWTW)	S02256	11.3	14.2	2.8	Actual PE updated with pointer data
Newry (WWTW)	S02685	93088.3	64578.4	-28509.9	Actual PE updated with pointer data & TE Update
Waterfoot Road (WWTW)	S01643	220.6	168.6	-52.0	PE Study by APT

The AIR definition on treatment categories states that Tertiary A2 can be defined as *Works with a secondary activated sludge process whose treatment methods also include* ***nutrient control using physico-chemical and biological methods****.* Likewise Tertiary B2 can be defined as *Works with a secondary biological process whose treatment methods also include* ***nutrient control using physico-chemical and biological methods.***

NIW has historically oversized secondary assets to meet tight ammonia consents and it is now felt that this falls within the definition of Tertiary Treatment described above i.e. ***nutrient control using physico-chemical and biological methods.*** In total NIW re-designated the treatment category for 33 WWTWs based on this definition for AIR14, changing 22 WWTWs from Sec Act to Ter A2 & 11 from Sec Bio to Ter B2. The treatment categories for these sites remain unchanged, following a review of the ammonia consents and treatment methods for AIR18.

NIW has a number of WWTWs (Belfast, Whitehouse and Carrickfergus) which have a total nitrogen (TN) standard in place, which is applicable to marine discharges, as opposed to an ammonia standard which is applied to freshwater discharges. Treatment category TA2 is applicable to these WWTWs as nutrient control is in place through the biological process.

The total load of 130,647.3kg BOD/day from all NIW (only) WWTWs reconciles with the Total load entering sewerage system (BOD/year) of 47,686.3*t BOD/year*, from Table 15 line 5.

The Total load receiving primary treatment in table 17d (line 7, column 1) of 576.2kg BOD/day is consistent (allowing for rounding up/down and conversions) with total load receiving primary treatment in table 15 (line 3) of 210.3*t BOD/yr.*

The Total load receiving secondary and tertiary treatment in table 17d (line 7, sum of columns 2–7) i.e. 128,559.3kg BOD/day is consistent (allowing for rounding up/down and conversions) with total load receiving secondary treatment in table 15 (line 2) i.e. 46,924.1*t BOD/yr*.

The Total load receiving preliminary treatment in table 17d (line 7, column 8) of 1,238.7kg BOD/day is consistent (allowing for rounding up/down and conversions) with total load receiving preliminary treatment in table 15 (line 4) (both include non-resident population) of 452.1*t BOD/yr.*

The table below depicts changes in PEs at WWTWs from AIR23 to AIR24.
The following table depicts how PE changes have occurred at WWTWs during the last financial year. Individual changes of 15% or greater listed.

Name of Works	CAR ID	AIR23 Actual PE	AIR24 Actual PE	Difference*	AIR23 Band	AIR24 Band	Band Size Change
Ardglass (WWTW)	S00268	2441.6	3124.8	683.2	Band 4	Band 4	
Blackstaff (Septic Tank)	S00219	34.2	26.0	-8.2	Band 1	Band 1	
Carran Hill (WWTW)	S02256	11.3	14.2	2.8	Band 1	Band 1	
Newry (WWTW)	S02685	93088.3	64578.4	-28509.9	Band 6	Band 6	
Waterfoot Road (WWTW)	S01643	220.6	168.6	-52.0	Band 1	Band 1	
Total for WwTW's with less than 15% PE Change	N/A	2,031,565.4	2,109,543.2	77977.8	N/A	N/A	
		TOTAL		50093.7			

The change in PE equates to an increase in load of 3,005.6kg BOD/day (i.e. 50,093.7x 0.06 for 60g/hd/day) from AIR23 to AIR24.

Difference between AIR24 and AIR23 for the total load entering WWTWs as shown in Table 17d - column 11, row 7

Total Load Received at WWTWs for AIR24 -	**130,647.3**
Total Load Received at WWTWs for AIR23 -	**127,641.7**
Total Difference -	**3,005.6**

The differences between the above totals are due to rounding.

The interpretation of the treatment categories is as below:-

AIR21 Treatment Category	**Highest Form of Treatment at WWTWs**	**Treatment Category Abbreviation**
Primary	Primary Settlement Septic Tank	Prim
Secondary Activated Sludge (Whether followed by Final settlement or not)	Oxidation Ditch Extended Aeration Activated Sludge SAF BAF MBR SBR	Sec Act
Secondary Biological (Whether followed by Final settlement or not)	Biological Filter RBC RBC Package Bioclere Package ; Reed Bed (If used as secondary treatment stage)	Sec Bio
Tertiary A1	Secondary Activated Sludge processes whose treatment methods also include prolonged settlement in conventional lagoons or raft lagoons, irrigation over grassland, constructed wetlands, root zone treatment (where used as a tertiary stage), drum filters, microstrainers, slow sand filters, tertiary nitrifying filters, Lockertex screens, gravel clarifiers, wedge wire clarifiers or Clariflow installed in humus tanks, where used as a tertiary treatment stage;	Ter A1
Tertiary A2	Secondary Activated Sludge processes whose methods also include phosphorous reduction, rapid-gravity sand filters, moving bed filters, pressure filters, nutrient control using physico-chemical and biological methods, disinfection, hard COD and colour removal and MBRs were used as a tertiary treatment stage;	Ter A2

AIR21 Treatment Category	Highest Form of Treatment at WWTWs	Treatment Category Abbreviation
Tertiary B1	Secondary Biological processes whose treatment methods also include prolonged settlement in conventional lagoons or raft lagoons, irrigation over grassland, constructed wetlands, root zone treatment (where used as a tertiary stage), drum filters, microstrainers, slow sand filters, tertiary nitrifying filters, Lockertex screens, gravel clarifiers, wedge wire clarifiers or Clariflow installed in humus tanks, where used as a tertiary treatment stage;	Ter B1
Tertiary B2	Secondary Biological processes whose methods also include phosphorous reduction, rapid-gravity sand filters, moving bed filters, pressure filters, nutrient control using physico-chemical and biological methods, disinfection, hard COD and colour removal and MBRs were used as a tertiary treatment stage;	Ter B2
Sea Outfalls	Where a load is discharged to sea having received only Preliminary treatment (including Grit removal and screenings conditioning) or simple screening (Bar Screen) or no screening or no treatment (Includes Retention Tanks)	Sea Out Prel Sea Out Screen Sea Out Unscreen

Changes in Line 8 - Small works with ammonia consent (between 5 and 10) from AIR23 to AIR24. Individual changes of 15% or greater listed.

Name of Works	CAR ID	AIR23 Actual PE	AIR24 Actual PE	PE Change*	Comments
Total for WwTW's with less than 15% PE Change	N/A	87,642.6	85,550.0	-2092.6	11no. WwTW's from TE Updates and PE Reviews
			Total	-2092.6	

The change in PE equates to a load change of -125.6kg/d (i.e. -2,092.6 x 0.06 for 60g/hd/day) from AIR23 to AIR24, for line 8.

Total Load rec'd by small WWTWs with NH3 consents (5-10mg/l) for AIR24-	**5,133.0**
Total Load rec'd by small WWTWs with NH3 consents (5-10mg/l) for AIR23-	**5,258.6**
Total Difference –	**-125.6**

***(-ve Indicates AIR24 PE Lower)**

The differences between the above totals are due to rounding.

Changes in Line 9 - Small works with ammonia consent (between 0 and 5) from AIR23 to AIR24. Individual changes of 15% or greater listed.

Name of Works	CAR ID	AIR23 Actual PE	AIR24 Actual PE	PE Change*	Comments
Total for WwTW's with less than 15% PE Change	N/A	247,754.4	249,788.2	2033.8	23no. WwTW's from TE Updates and PE Reviews
			Total	2033.8	

The change in PE equates to a load change of 122.0kg/d (i.e. 2,033.8 x 0.06 for 60g/hd/day) from AIR23 to AIR24 for line 9.

Total Load rec'd by small WWTWs with NH3 consents (0-5mg/l) for AIR24-	**14987.3**
Total Load rec'd by small WWTWs with NH3 consents (0-5mg/l) for AIR23-	**14865.3**
Total Difference -	**122.0**

PPP

Lines 1 – 7

The variation in load data from AIR23 is solely due to the variation in influent loads received by the same PPP works from the NI Water catchments over the AIR24 Period.

The North Down WwTW has experienced a 24.6% Increase in averaged Daily BOD over the entire year, Richhill WwTW has experienced a 12.2% Decrease in averaged Daily BOD over the entire year, while Armagh has seen a Decrease of 10.7%. Ballyrickard has additionally seen a 10.8% Increase in averaged Daily BOD. This issue has been re-checked and the calculations verified. The prevailing rainfall does not provide an explanation, as the AIR24 period experienced 1421.1mm while the AIR23 period experienced 1135.5mm of rainfall which is a 25.1% increase during the AIR24 period when compared with the AIR23 period. The 100-year average [AREAL series] for Northern Ireland is 1100mm.

The Contractor has reported there were no apparent operational reasons for the decreases/increases, although the PPP Contractors are not in control of the upstream catchments to be aware of specific variances. The fact that some works have experienced 12% decreases while some have experienced 24% increases in averaged Daily BOD during the same period demonstrates the variability of loading that can be experienced by WwTW's irrespective of climatic conditions. The Kinnegar WwTW has returned to a more expected loading experience during AIR24 and is more relatable to AIR21 and AIR23, while still showing a reduction of 6.6% from the previous year.

The load attributed to Richhill STW has Reduced from last year, but the Categorisation remains as Category 4.

Line 9

The variation in load data is due to the variations as discussed above in influent loads received by the WwTW's over the AIR24 Period.

Specific company commentary

- The category of Richhill STW is Category 4.
- There are currently the following on-going Capital Works Project at various stages of design, construction and commissioning which could close, or divert flows arriving to, PPP operated works.

Project	Project name
JA341	Ballinrees WTW Upgrade - Preferred Option Implementation Project
KG183	Portadown Drainage Area Network Improvements - Meadow Lane and Bann Street
KI776	Pump Optimisation at Water & Wastewater Assets
KR707	LWWP - Belfast WwTW phase 0 interim upgrade
KS999	Ballyrickard DA Upper Crescent WwPS
KS873	Bangor DAP Work Package 2: Rathmore Stream UIDs
KS874	Bangor DAP Works Package 3 - Belfast Lough UIDs
KI725	PC27 Sludge strategy
KG236	Annesborough (Lurgan) Wastewater Pumping Main
KR689	Holywood A to Kinnegar PM
KS867	Copeland Road, Comber, Tank Sewer
KS913	Upper Crescent WWPS Upgrade
KF396	Milford WWPS, Armagh, Upgrade.
KF397	Killylea Road WWPS, Armagh, Upgrade.
KG129	Loughgall Road Portadown Storm and Foul Sewer Extensions
KR576	Belfast WWTW PLC Upgrade
KI607	NI Long Term Sludge Strategy
KR504	Portaferry Road, N,Ards WWPS Upgrade
KR417	Ormeau Avenue Sewerage upgrade for pollution resolution

NORTHERN IRELAND WATER LIMITED - ANNUAL INFORMATION RETURN

ANNUAL INFORMATION RETURN - TABLE 17f SEWERAGE EXPLANATORY FACTORS
SEWAGE TREATMENT WORKS - COSTS (NIW Only)

	DESCRIPTION	UNITS	DP	1	2	3	4	5	6	7	8	9	10	11
				TREATMENT CATEGORY										TOTAL
					SECONDARY		TERTIARY				SEA OUTFALLS			
				PRIMARY	ACTIVATED SLUDGE	BIOLOGICAL	A1	A2	B1	B2	PRELIMINARY TREATMENT	SCREENED	UNSCREENED	
A	SMALL WORKS													
1	Direct costs of STWs in size band 1	£000	3	59.362	92.079	795 513			24 844	24.937			3.897	1,000.631
2	Direct costs of STWs in size band 2	£000	3		112 662	430 249	49.224	23 940	150 593	96.286				862.953
3	Direct costs of STWs in size band 3	£000	3	26.775	749.417	1,499.124	205.364	713.704	470.734	398.542	134.857		14.690	4,213.207
4	Direct costs of STWs in size band 4	£000	3	36.986	1,365.735	273 086	72.870	2,449.943	85 877	261.215	200.148	20.807		4,766.666
5	Direct costs of STWs in size band 5	£000	3		805.454		582.605	2,413.181		231.780				4,033.020
B	LARGE WORKS													
6	Direct costs of STWs in size band 6	£000	3		1,641.777			7,373.029					-	9,014.806
C	ALL WORKS													
7	Total direct costs of STWs - all sizes	£000	3	123.122	4,767.124	2,997.971	910.062	12,973.797	732.048	1,012.758	335 006	20.807	18.587	23,891.283
8	Sludge Treatment and Disposal Adjustments	£000	3											0.000
9	Sewage Treatment: Direct costs	£000	3	123.122	4,767.124	2,997 971	910.062	12,973.797	732 048	1,012.758	335.006	20.807	18.587	23,891 283
10	Sewage Treatment: Power costs	£000	3	14.260	3,193.724	1,013 020	536.869	9,136.744	201 667	483.225	42.665		0.790	14,622 962
11	Sewage Treatment: service charges	£000	3	10.312	136 801	191 669	29.167	368.615	51.148	51.454	25.417		1.641	866.226
12	Sewage Treatment: General and Support	£000	3	242.102	3,211 683	4,573.132	684.755	8,525.149	1,200 811	1,208.000	596.713	55.565	38.537	20,336.447
13	Sewage Treatment: Functional Expenditure	£000	3	365.224	7,978 807	7,571.103	1,594.817	21,498.946	1,932.859	2,220.759	931.719	76.372	57.125	44,227.730

NORTHERN IRELAND WATER LIMITED - ANNUAL INFORMATION RETURN

ANNUAL INFORMATION RETURN - TABLE 17f SEWERAGE EXPLANATORY FACTORS
SEWAGE TREATMENT WORKS - COSTS (PPP only)

	DESCRIPTION	UNITS	DP	1	2	3	4	5	6	7	8	9	10	11
				TREATMENT CATEGORY										TOTAL
					SECONDARY		TERTIARY				SEA OUTFALLS			
				PRIMARY	ACTIVATED SLUDGE	BIOLOGICAL	A1	A2	B1	B2	PRELIMINARY TREATMENT	SCREENED	UNSCREENED	
A	SMALL WORKS													
1	Direct costs of STWs in size band 1	£000	3											0.000
2	Direct costs of STWs in size band 2	£000	3											0.000
3	Direct costs of STWs in size band 3	£000	3											0.000
4	Direct costs of STWs in size band 4	£000	3											
5	Direct costs of STWs in size band 5	£000	3											
B	LARGE WORKS													
6	Direct costs of STWs in size band 6	£000	3					4,133.600						4,133.600
C	ALL WORKS													
7	Total direct costs of STWs - all sizes	£000	3	0.000	0 000	0.000			0.000	0.000	0.000	0.000	0.000	
8	Sludge Treatment and Disposal Adjustments	£000	3											0.000
9	Sewage Treatment: Direct costs	£000	3				89.199	4,384.740						4,473.939
10	Sewage Treatment: Power costs	£000	3				89.199	4,384.740						4,473.939
11	Sewage Treatment: service charges	£000	3											0.000
12	Sewage Treatment: General and Support (NIW)	£000	3		61.717		32 905	131.620						226.242
13	Sewage Treatment: Functional Expenditure	£000	3	0.000	61.717	0.000			0.000	0.000	0.000	0.000	0.000	

NORTHERN IRELAND WATER LIMITED - ANNUAL INFORMATION RETURN

ANNUAL INFORMATION RETURN - TABLE 17f SEWERAGE EXPLANATORY FACTORS
SEWAGE TREATMENT WORKS - COSTS (Total)

	DESCRIPTION	UNITS	DP	1	2	3	4	5	6	7	8	9	10	11
				TREATMENT CATEGORY										TOTAL
					SECONDARY		TERTIARY				SEA OUTFALLS			
				PRIMARY	ACTIVATED SLUDGE	BIOLOGICAL	A1	A2	B1	B2	PRELIMINARY TREATMENT	SCREENED	UNSCREENED	
A	**SMALL WORKS**													
1	Direct costs of STWs in size band 1	£000	3	59.362	92.079	795 513			24.844	24.937			3.897	1,000.631
2	Direct costs of STWs in size band 2	£000	3		112.662	430 249	49 224	23.940	150.593	96.286				862.953
3	Direct costs of STWs in size band 3	£000	3	26.775	749.417	1,499.124	205 364	713.704	470.734	398.542	134.857		14.690	4,213.207
4	Direct costs of STWs in size band 4	£000	3	36.986	1,365.735	273 086		2,449.943	85.877	261.215	200.148	20.807		
5	Direct costs of STWs in size band 5	£000	3		805.454		582 605			231.780				
B	**LARGE WORKS**													
6	Direct costs of STWs in size band 6	£000	3		1,641.777			#########						13,148.406
C	**ALL WORKS**													
7	Total direct costs of STWs - all sizes	£000	3	123.122	4,767.124	2,997 971			732.048	1,012.758	335.006	20.807	18.587	
8	Sludge Treatment and Disposal Adjustments	£000	3											
9	Sewage Treatment: Direct costs	£000	3	123.122	4,767.124	2,997 971	999 261	#########	732.048	1,012.758	335.006	20.807	18.587	28,365.222
10	Sewage Treatment: Power costs	£000	3	14.260	3,193.724	1,013 020	626 068	#########	201.667	483.225	42 665		0.790	19,096.901
11	Sewage Treatment: service charges	£000	3	10.312	136.801	191 669	29.167	368.615	51.148	51.454	25.417		1.641	866.226
12	Sewage Treatment: General and Support	£000	3	242.102	3,273.400	4,573.132	717 660	8,656.769	1,200.811	1,208.000	596.713	55.565	38.537	20,562.689
13	Sewage Treatment: Functional Expenditure	£000	3	365.224	8,040.524	7,571.103			1,932.859	2,220.759	931.719	76.372	57.125	

Table 17f - Sewage Treatment Works (NIW only)

Lines 1-13

An updated Population Equivalent (PE) database with treatment type by WWTW's was sent from Asset Delivery on the 29th May 2024 which was used to populate Line 1-13. No PPP sites are included in this table. The same 15 sites in Band 6 still apply in AIR24.

Table 17f has been completed based on the figures available at for the year ended 31 March 2024 for sewage treatment – Activity 510 less M&E expenditure which is treated as general & support.

Line 1-4 – Size band 1-4

Each WWTW's was assigned a finance location code, W or X. W codes are for a specific works and X codes include the costs of a number of small works. Nearly 90% of the costs can be directly allocated to WWTW's through the further implementation of Cost to Serve and the remaining direct costs are apportioned across the appropriate WWTW's based on PE or direct labour.

Direct Costs include power 521x, contractors 531x, other contractors 532x, materials 541x, chemicals 548x, cost reallocations 611x (this includes direct labours costs and & overhead charges) and service charges.

Through the cost to serve project all power costs are allocated to individual sites and a report was taken from EAM to get the full year power cost per WWTW's. There is one electric meter at each site and all the power costs are coded to each individual works to sewage treatment. The Field Managers responsible for each WWTW's estimated the percentage use for sludge treatment and sewage treatment at each WWTW's. This was multiplied by the Power costs at the site to calculate the portion relating to sewage treatment.

The type of treatment at each WWTW's was provided by Asset Management and this was used to assign costs to Column 1-10.

In total the costs have decreased in Lines 1-4 from AIR23 by circa £1.6M.

Line 5 – Size band 5

Direct costs for sewage treatment, at each location in Size Band 5, were recorded and matched to the appropriate type of treatment.

The costs have decreased from AIR23 by circa £1.9M.

Line 6 – Size band 6

This line agrees with Line 9 in Table 17b. No PPP sites have been included.

The costs have decreased from AIR23 by circa £2.8M. See Table 17b commentary.

Line 7 – Total Direct Costs

This is a calculated line and it's the total of Line 1-6. This figure agrees with Table 22, Column 2 Line 9.

The total direct costs have decreased since AIR23 by circa £5.2M. This is due to the movements in the costs of band sizes commented on above.

Line 8 – Sludge Treatment & Disposal Adjustment

These costs are not included in the total of Line 7 therefore this line is zero.

Line 9 – Direct Costs

This line is equal to Line 7 and is the total direct costs for each type of treatment. This figure agrees with Table 22, Column 2 Line 9.

Line 10 – Power Costs

Through the cost to serve project all power costs are allocated to individual sites and a report was provided by the Energy Finance Business Partner for the full year power cost per WWTW's. Power costs have decreased from AIR23 by £5.4m. This figure agrees with Table 22, Column 2 Line 2.

Line 11 – Service Charges

£0.9M of environmental regulatory charges are included in Sewage, which is in line with AIR23.

Line 12 – General & Support

The Total General & Support expenditure was taken directly from Table 22 (NIW only) Line 10 Column 2 (see Table 22 commentary) and apportioned across the locations based on direct costs.

This figure has increased by £3.6M from AIR23. See commentary on Table 22 for further breakdown and explanation.

Line 13 – Functional Expenditure

This is a calculated line and is the total of Line 9 and Line 12. The total agrees to Table 22 (NIW Only) Column 2 Line 11. The total costs have decreased from AIR23 by circa £1.6M for all the reasons mentioned under the lines above. Refer to Table 22 commentary for further explanation.

PPP Only

Lines 1- 3 – Size bands 1- 3

There are no PPP sites sized within these categories. Therefore, this is a nil return for these size bands.

Line 4 – Size band 4

Direct costs associated with Richhill (TA1) include power costs only derived from the Oracle system using the appropriate location code.

Line 5 – Size band 5

Direct costs associated with Armagh (TA2) include power costs only derived from the Oracle system using the appropriate location code.

Line 6 – Size band 6

No costs are reported for Kinnegar (SAS) direct costs as Kinnegar power costs are part of the Concessionaire's payment to the Operating Company.

Costs for North Down, Ballyrickard and Ballynacor (all TA2) include power costs only derived from the Oracle system using appropriate location codes.

Line 9 - Direct costs

This refers to power only. See comments on Line 10 below.

Line 10 - Power

Kinnegar (SAS) remains unreported as power costs are not incurred by NIW directly but through the Concessionaire payments.

Power costs have reduced by c 25% from AIR23. This is in line with average APPU which has reduced by c30% from AIR23

The total of this line reconciles to table 22 line 2 column 2.

Line 12 – General & support

General and support costs have been calculated using all staff and overhead costs for the contracts management team together with PPP related professional managed service costs – PPP Professional Advisors. Costs have been attributed to schemes in accordance with management's estimated time spent by each member of staff on each contract, with such costs spread equally on schemes therein. Professional Advisors costs are attributable to a contract by invoice. General and support costs have been allocated to facilities on a straight line basis according to the number of facilities in each scheme.

The total on this line reconciles to table 22 line 10 column 2.

NORTHERN IRELAND WATER LIMITED - ANNUAL INFORMATION RETURN

ANNUAL INFORMATION RETURN - TABLE 17g SEWERAGE EXPLANATORY FACTORS
SLUDGE TREATMENT AND DISPOSAL INFORMATION (NIW Only)

	DESCRIPTION	UNITS	DP	1 FARMLAND UNTREATED	G	2 FARMLAND CONVENTIONAL	G	3 FARMLAND ADVANCED	G	4 INCINERATION	G	5 TO PPP	G	6 LANDFILL	CG	7 COMPOSTED	G	8 LAND RECLAMATION	G	9 OTHER	G	10 TOTAL	G
1	Resident population served	000	1									1,522 3	C3	25 8	C3					15.5	C3	1,563.6	C3
2	Amount of sewage sludge	ttds	1									29 5	B2	0.5	B2					0.3	B2	30.3	B2
3	Sludge treatment: direct costs	£000	3																	4,726.695		4,726 695	
4	Sludge disposal: direct costs	£000	3									3,685.230		67.960						92.393		3,845 583	
5	Sludge treatment & disposal: direct costs	£000	3									3,685.230		67.960						4,819.088		8,572 278	
6	Sludge treatment & disposal: power costs	£000	3																	4,123.897		4,123 897	
7	Sludge treatment & disposal: service charges	£000	3																	297.752		297.752	
8	Sludge treatment & disposal: general & support exp.	£000	3																	4,025.211		4,025 211	
9	Sludge treatment & disposal: functional expenditure	£000	3									3,685.230		67.960						8,844.299		12,597.489	

Table 17g - Sewerage explanatory factors - sludge treatment and disposal information

The methodology has not changed from AIR23. All Sludge is transported and disposed of at the Incinerator or another PPP site.

The costs in Table 17g are populated with the information available for the year ended 31 March 2024.

Line 1 - Resident population served

The resident population served is that reported in T17a L1 as required in the Utility Regulator's guidance documentation.

Lines 1.5, 1.6 & 1.9 have been estimated using a pro-rata value based on the total sewage sludge disposal data from SLS and the WW Sludge Management monthly report. The pro-rata population figures have been assigned CGs of C3 accordingly based on the C3 CG of the base population data.

Line 2 – Amount of sewage sludge

This is the total sewage sludge produced (NIW Only) for 2023/24 (tds) as recorded by PPP and monthly by the WWPL Sludge Officer (reconciled using the SLS) and presented in the monthly Sludge Management Report along with an estimated quantity of WwTW & WwPS grit & screenings removed as part of the treatment process and disposed of under Tender C1088.

Line 2.5 has been based on the total sewage sludge disposal (NIW Only) data from SLS and the WW Sludge Management monthly report.

Line 2.6 is an estimated quantity of WwTW's & WwPS`s grit & screenings removed as part of the treatment process and disposed of under Tender C1088.

Line 2.9 is an estimated quantity of WwTW's & WwPS`s grit removed as part of the treatment process and collected under Tender C1088. This element of grit is sent to ReCon who treat and process the grit into a re-usable material - for use in concrete products.

Line 3 – Sludge Treatment: Direct Costs

Expenditure has been input in Column 9. These costs have decreased by £1.7M since AIR23 mainly due to decreased Power Costs.

Sludge treatment costs for WWTW's are coded using activity 621 and can be separately identified to populate Column 9.

Power costs in AIR24 do not include the Incinerator or any PPP sites.

Line 4 - Sludge Disposal: Direct Costs

Columns 5, 6 and 9 have been populated on this line. The direct costs have increased by £0.6m since AIR23 mainly due to Hired and Contracted Services Costs.

Line 5 - Sludge Treatment & Disposal: Direct Costs

This is a calculated line and is the total of line 3 and line 4. The figure agrees with Table 22 (NIW Total) column 3 line 9. Costs have decreased by £1.1M since AIR23.

Line 6 – Sludge Treatment & Disposal: Power Costs

Power costs associated with Sludge Treatment are used to populate Column 9. Power costs have been allocated to every site through cost to serve. There is only one electric metre at each WWTW's so an estimate was received for each WWTW's from the wastewater field mangers so that a split could be calculated at each works between sludge and sewage treatment at the sites where both activities occur. The power team supplied a split between the Incinerators and Belfast WWTW's which was used apportion a cost to the works. The split for this in AIR24 was 51:49 and in AIR23 is 44:56 for the Belfast and Incinerators (based on an estimated KWhr usage and a number of sub-meters). No costs for the Incinerator have been included in this table in AIR23.

Line 7 - Sludge treatment & disposal: Service Charges

The Service Charges figure is approx. £0.3m in AIR24 and this is similar to what the costs were in AIR23. PPC (Pollution Prevention Control) Permits are included as Sludge Treatment and therefore included in Column 9. The Service Charges figure agrees to Table 22, Line 7 Column 3.

Line 8 - Sludge treatment & disposal: General & Support

This figure was taken directly from Table 22 (NIW only) Column 3 Line 10 and apportioned across the columns in Table 17g based on direct labour costs. This is following the same methodology as AIR23. Overall General and Support costs have increased by £0.5m since AIR23. See Table 22 commentary. A detailed breakdown of general & support is included in the commentary for Table 21 & 22.

Line 9 – Sludge treatment & disposal: Functional Expenditure

This is a calculated line and is the total of Line 5 and Line 8. Total costs have decreased by £0.6M due to the reasons given above.

NORTHERN IRELAND WATER LIMITED - ANNUAL INFORMATION RETURN

ANNUAL INFORMATION RETURN - TABLE 18 REGULATORY ACCOUNTS (HISTORICAL COST ACCOUNTING
PROFIT AND LOSS ACCOUNT FOR YEAR ENDING 31 MARCH

				1	2	3	4	5	6	7	8	9	10	11	12
	DESCRIPTION	**UNITS**	**DP**	**2015-16**	**2016-17**	**2017-18**	**2018-19**	**2019-20**	**2020-21**	**2021-22**	**2022-23**	**2023-24**	**2024-25**	**2025-26**	**2026-27**
1	Turnover	£m	3	367 287	372.851	381.099	409 662	422 314	412.533	434.164	473.700	542.804			
2	Operating costs (excluding HCD)	£m	3	-207.727	-210.758	-219.231	-186 971	-195.772	-209.681	-243.236	-273 884	-277.765			
3	Historical cost depreciation	£m	3	-54 364	-55.773	-56.418	-82.165	-84 274	-88.080	-91.424	-98 895	-109.426			
4	Operating income	£m	3	0.799	0.656	1.035	0 551	0.467	0.193	0.585	0.420	0.175			
5	Operating profit	£m	3	105 995	106.976	106.485	141 077	142.735	114.965	100.089	101 341	155.788			
6	Other income	£m	3	0 000	0.000	0.000	0 000	0 000	0.000	1.120	0 000	0.000			
7	Net interest receivable less payable	£m	3	-53 609	-53.804	-56.253	-63 684	-64 374	-62.362	-62.660	-63.442	-63.882			
8	Profit on ordinary activities before taxation	£m	3	52 386	53.172	50.232	77 393	78 361	52.603	38.549	37 899	91.906			
9	Current tax	£m	3	-0 017	-0.012	-0.009	0 000	-0.405	0.405	0.000	0 000	0.000			
10	Deferred tax	£m	3	2 536	-6.430	-18.286	-14 018	-35 032	-11.798	-76.278	-2.484	-24.427			
11	Profit on ordinary activities after taxation	£m	3	54 905	46.730	31.937	63 375	42 924	41.210	-37.729	35.415	67.479			
12	Extraordinary items	£m	3	0 000	0.000	0.000	0 000	0 000	0.000	0.000	0 000	0.000			
13	Profit for the year	£m	3	54 905	46.730	31.937	63 375	42 924	41.210	-37.729	35.415	67.479			
14	Dividends	£m	3	-22 888	-21.510	-21.153	-23.759	-25.185	-26.619	-27.482	-17.121	-18.113			
15	Retained profit for the year	£m	3	32 017	25.220	10.784	39 616	17.739	14.591	-65.211	18 294	49.366			
	ADDITIONAL DISCLOSURES														
16	IFRIC 18 Income	£m	3				12 303	12 895	9.934	13.635	12.453	11.978			
17	IFRS 15 Income	£m	3				34.295	46.713	40.680	39.994	29 682	39 925			

Table 18 – HC Profit and Loss account for the year ending 31 March 2024

- Results of unappointed activities are shown separately in the published regulatory accounts.
- There are no exceptional charges or income.
- There are no minority interests.
- PPP charges for 2023/24 can be analysed as follows:

	Gross Charge	Lease repayment	Capital maintenance	HC Depreciation	Net P&L Charge
	£m	£m	£m	£m	£m
[redacted]	26.611	(5.535)	(1.516)	4.198	23.758
[redacted]	32.504	(5.854)	(2.018)	4.606	29.238
[redacted]	2.562	(0.409)	(1.298)	0.261	1.116
Total	**61.677**	**(11.798)**	**(4.832)**	**9.065**	**54.112**

* includes lease interest of [redacted] – shown in line 7 of Table 18.

** Omega gross charge includes constructive liability credit of £2.773m.

- PPP elements of line 2 'Operating Costs' are [redacted]
  Additionally within Line 3 'HCD' there are depreciation costs for the Alpha Project of [redacted], Omega [redacted] and Kinnegar of [redacted]

The Current and Deferred tax charge

Factors affecting the tax charge for the current period

The income tax expense in the statutory accounts for the period is £24.427m which is higher than the charge based on the standard rate of corporation tax in the UK (25%). The differences are explained below:

Reconciliation of effective tax rate	2024 £m	2023 £m
(Loss)/ Profit for the year	70.366	37.293
Income tax expense	24.427	2.484
Profit before income tax	**94.793**	**39.777**
Income tax using the Company's domestic tax rate (25%/ 2023:19%)	23.699	7.557
Change in tax rate	0.00	1.526
Non-deductible expenses/ (non-taxable income)	0.571	(3.172)
Other timing differences	-	-
Adjustment to prior years	(1.058)	(3.874)
Group relief not chargeable	1.215	0.447
	24.427	**2.484**

The statutory accounts income tax expense of £24.427m can be shown as follows:

Tax recognised in profit and loss

	2024 £m	**2023 £m**
Current tax expense		
Current year	-	-
Adjustment for prior years	-	-
	-	-
Deferred Tax		
(Origination)/ reversal of timing differences	25.485	6.358
Adjustment to prior years	(1.058)	(3.874)
Change in tax rate	0.000	0.000
Tax charge on profit on ordinary activities	**24.427**	**2.484**

This statutory income tax expense of £24.427m under IFRS is shown in the Regulatory Accounts as follows:

	Appointed activities	**Unappointed activities**	**Total**
	£m	**£m**	**£m**
Current tax	-	-	-
Deferred tax	24.427	-	24.427
Total	**24.427**	**-**	**24.427**

The statutory accounts deferred tax expense of £24.427m is wholly allocated to appointed activities since the temporary tax timing differences associated with the deferred tax charge reside only in the appointed part of the business.

The statutory deferred tax liability at 31st March 2024 is £340.566m. Table 19 shows a deferred tax liability on the appointed balance sheet of £325.566m (with zero balance at 31st March 2024 for unappointed activities). This liability reconciles to the IFRS based statutory accounts balance at 31st March 2024 of £340.566m as the Accounts are required to show the deferred tax asset of £1.912m associated with the pension liability within the deferred tax balance rather than the approach of showing this amount separately within the pension account. The regulatory accounts balance of £340.566m can be summarised as follows:

	2024 £m Excluding Pension	2024 £m Pension	**2024 £m Total**
Opening liability	303.051	10.668	**313.719**
Current year deferred tax charge/(credit) to profit and loss account	22.515	1.912	**24.427**
Current year deferred tax rate change to the Statement of Total Recognised Gains and Losses (17% to 19%)	-	-	**-**
Current year deferred tax charge to the Statement of Total Recognised Gains and Losses	-	2.410	**2.410**
Closing liability	325.566	14.990	**340.556**

Deferred tax is shown separately in the Regulatory Accounts and rolled up into the balance shown within the pension asset on the balance sheet as follows:

	2024 £m
Benefit obligation at end of year	(263.660)
Fair value of plan assets at end of year	323.621
Net asset	59.961
Less deferred tax	11.218
Pension asset after deferred tax	**71.179**

The actuarial assumptions underpinning the valuation of the NIW defined benefit scheme assets and liabilities can be shown as follows:

Weighted average assumptions used to determine benefit obligations at:	**31-Mar-24**	**31-Mar-23**
Discount rate	4.90%	4.80%
Rate of compensation increase	5.00% until 2025, 3.70% thereafter	2.70% until 2024, 3.70% thereafter
Rate of increase in pensions in payment	3.05%	3.10%
Rate of increase in pensions in deferment	3.05%	3.10%
Inflation RPI	2.90%	3.00%
Inflation CPI	2.60%	2.70%
Weighted average assumptions used to determine net pension cost for year ended:	**31-Mar-24**	**31-Mar-23**
Discount rate	4.80%	2.80%
Rate of compensation increase	2.70% until 2024, 3.70% thereafter	3.00% until 2024, 4.00% thereafter
Inflation	3.00%	3.30%

Any changes to the assumptions from 2023 to 2024 have been advised by the independent actuaries.

There is a pension asset at 31 March 2024 of £71.179m (after deferred tax).
A dividend of £21.000m was proposed, approved and paid in 2023/24 and thus there is a dividend in Table 18 for the current year.

The approach to dividends is to allocate an amount of dividend to unappointed activities in the year that will reduce the ongoing build-up of cash balances within the unappointed balance sheet. This is achieved by allocating dividend to unappointed activities to achieve nil profit on these activities.

In the year ended 31st March 2024 £18.113m of the statutory dividend of £21.000m was allocated to appointed activities and £2.887m allocated to unappointed activities.

Operating Costs

Cost components in Operating Costs

The following cost components of Line 2 (£277.764m) are provided below:

Employment Costs	75.546m*^
Power	58.421m*
Rates	27.837m*
Contractors	32.228m*
Customer services	8.616m
Materials and consumables	16.109m
General and support expenditure	33.813m
PPP Operating Charges – [redacted]	14.667m
PPP Operating Charges – [redacted]	14.822m
PPP Operating Charges – [redacted]	0.767m
Other	(5.062m)
Total	**277.764m**

* includes an amount relating to unappointed activities that cannot be extracted out for the summary above.
^ stated before an amount is capitalised (see later in commentary).

Interest

Interest received and payable can be summarised as follows:

	£m	£m
Interest received		
Bank Interest	3.468	
Cash Pooling	0.631	
Sub Debt	1.130	
On Pension Fund	2.590	
Total Interest received		**7.819**
Interest Payable:		
On bonds held as security	(0.577)	
On all other loans	(68.649)	
On Finance leases	(14.800)	
On Pension Fund	-	
Total Interest Payable		**(84.026)**
Net Interest		**(76.207)**

Capitalisation of costs

During 2023/24 £24.357m of costs were capitalised from the profit and loss account. This can be broken down as follows:

Cost	**£m**
Staff Costs	20.638
Labour charge	0.525
Temporary staff	0.007
Consultants	-
Overheads capitalised	3.187
Total	**24.357**

The majority of cost capitalised relate to staff costs and overheads. These costs relate to the NIW staff who spend their time on capital projects e.g. Engineering Procurement or Asset Management staff. These costs will add to the value of the completed asset.

Comparison to prior year

A comparison to 2023/24 can be shown as follows:

	Actual	**Actual**
	2023 - 2024	**2022 – 2023**
	£m	**£m**
Sales	542.804	473.700
Expenditure	(387.016)	(372.359)
Net Operating Profit	155.788	101.341
Operating Margin	*28.7%*	*21.4%*
Interest payable	(63.882)	(63.442)
Tax charge	(24.427)	(2.484)
(Loss)/ Profit for the year	67.479	35.415
Net Profit Margin	*12.4%*	*7.5%*

Explanation of variances on sales, operating profit and interest payable are outlined in the commentary to Table 20.

Systems and controls

The company uses the Oracle financial system to produce monthly and annual accounting information. The Oracle General Ledger produces a trial balance and the detailed accounts are summarised to produce the year end statutory accounts. A series of spreadsheets are then used to analyse appointed and non-appointed sales and costs to produce the financial information for the Regulatory Accounts and AIR Tables.

The company is progressing a major project to develop a costing system. In terms of regulatory reporting the main tables requiring costing information are Tables 21 and 22 and the commentaries for these tables detail how an interim costing solution is being used to populate these tables until the new costing system is in place.

This new costing solution is also intended to provide better information for the allocation of costs to non-appointed activities (which is currently based on a set of high level costing assumptions).

Internal Controls

The company continues to place great emphasis on internal financial controls throughout the organisation.

IFRS 15 Income

In 2018/19 the company adopted IFRS 15 and changed its accounting policy such that the value of transfers of assets from customers £39,925k (2023: £29,682k) has been taken to a deferred credit reserve and amortised over the life of the related asset. The amount recognized as income in the current year is £4,212k (2023: £4,085k).

In accordance with IFRS 15, other capital contributions of £11,978k (2023: £12,453k) has been taken to revenue. This is the same as how IFRIC 18 income was previously recognised pre-2018/19. This is shown in the table as IFRIC 18 income for identification purposes.

NORTHERN IRELAND WATER LIMITED - ANNUAL INFORMATION RETURN

ANNUAL INFORMATION RETURN - TABLE 18c REGULATORY ACCOUNTS (HISTORICAL COST ACCOUNTING)
STATEMENT OF TOTAL RECOGNISED GAINS AND LOSSES

	DESCRIPTION	UNITS	DP	1 2015-16	2 2016-17	3 2017-18	4 2018-19	5 2019-20	6 2020-21	7 2021-22	8 2022-23	9 2023-24	10 2024-25	11 2025-26	12 2026-27
A	CAPITAL EXPENDITURE CATEGORIES														
1	Profit for the year	£m	3	32.017	25.220	10.784	39.616	17.739	14.591	-65.211	18.294	49.366			
2	Actuarial gains/losses on post employment plans	£m	3	4.294	-46.621	41.180	-9.413	-0.353	-23.983	33.157	63.154	7.231			
3	Other gains and losses	£m	3	0.000	0.000	0.000	-0.013	0.000	0.000	0.000	0.000	0.000			
4	Total recognised gains and losses for the year	£m	3	36.311	-21.401	51.964	30.190	17.386	-9.392	-32.054	81.448	56.597			

Table 18c – STRGL (HCA)

Line 2 shows £7.231m of actuarial gains on post-employment plans.

The Regulatory Accounts for 2023/24 are based on IFRS and the actuarial gains and fair value gains noted above are taken from the IFRS Statutory Accounts.

NORTHERN IRELAND WATER LIMITED - ANNUAL INFORMATION RETURN

ANNUAL INFORMATION RETURN - TABLE 18d REGULATORY ACCOUNTS (HISTORICAL COST ACCOUNTING)
ANALYSIS OF DIVIDENDS AND INTEREST CHARGES FOR YEAR

	DESCRIPTION	UNITS	DP	1 2015-16	2 2016-17	3 2017-18	4 2018-19	5 2019-20	6 2020-21	7 2021-22	8 2022-23	9 2023-24	10 2024-25	11 2025-26	12 2026-27
A	DIVIDEND ANALYSIS														
1	Dividends in respect of a financial re-organisation	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000			
2	Other ordinary dividends	£m	3	-22.888	-21.510	-21.153	-23.759	-25.185	-26.619	-27.482	-17.121	-18.113			
3	Total dividends	£m	3	-22.888	-21.510	-21.153	-23.759	-25.185	-26.619	-27.482	-17.121	-18.113			
B	INTEREST ANALYSIS														
4	Interest receivable/payable on intercompany balances	£m	3	0.000	0.000	0.115	0.361	0.389	0.048	1.357	1.475	1.761			
5	Interest receivable/payable in respect of a financial re-organisation	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000			
6	Indexation element of index-linked bonds	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000			
7	Preference share dividends	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000			
8	Other interest receivable	£m	3	0.096	0.070	0.052	0.100	0.063	1.389	0.007	0.612	3.468			
9	Other interest payable	£m	3	-46.604	-47.111	-48.414	-44.859	-51.306	-52.134	-54.105	-58.708	-69.226			
10	Other finance charges - post employment costs	£m	3	-0.400	-0.200	-1.600	-0.460	-0.735	-0.648	-1.233	-0.615	2.590			
11	Other finance charges	£m	3	-6.701	-6.562	-6.406	-18.826	-18.261	-17.521	-16.692	-15.842	-14.800			
12	Total net interest	£m	3	-53.609	-53.803	-56.253	-63.684	-69.850	-68.866	-70.666	-73.078	-76.207			
13	Capitalisation of Interest	£m	3				5.014	5.477	6.503	6.886	9.636	12.326			

Table 18d – Analysis of dividends and interest charges

A dividend was proposed and approved in 2023/24 and this is shown on line 2. The full dividend for 2023/24 was £21.000m with £18.113m apportioned to appointed activities and £2.887m apportioned to unappointed activities.

See commentary to Table 18 in relation to the approach to the apportionment of dividend to appointed and unappointed activities.

Interest receivable (£1.761m) relates to intercompany cash pooling interest.

Interest payable of £69.226m is comprised of £68.668m relating to the loan notes held with DfI, £0.577m relating to interest payable on cash bonds and £0.020m relating to interest on corporation tax. The interest on loan notes has increased from last year by £10.254m (17.6%). The increase, as in the prior year, is due to the additional interest on the drawdown of £215m additional loan notes in 2023/24. (Generally the interest payable on loan notes will rise year on year as the outstanding liability steadily rises. This occurs as new loans are taken out to cover in year capital expenditure whilst at the same time the loans are not repayable until 2027/2034/2042).

Other finance charges – post employment plans is an income of £2.590m for the finance interest income relating to post employment plans calculated by the actuaries of the pension fund at year end.

During 2023/24 an amount of £14.800m (2022/23: £15.842m) has been included as other finance charges. £14.792m of this relates to the imputed interest on the finance lease underpinning the on-balance sheet [redacted] Project. With the change to IFRS in 2018/19, both [redacted] Project became on balance sheet. £0.008m relates to imputed interest on finance leases on the implementation of IFRS 16 Leases in 2019/20.

The following table compares the actual net interest payable and balance of loan notes with the 2023/24 budget:

	Actual	Budget
	£m	£m
Net Interest payable	76.207	78.010
Loan notes	1,809.560	1,824.560

* Omega interest [redacted] and Kinnegar interest [redacted] were not included in the FD.

NORTHERN IRELAND WATER LIMITED - ANNUAL INFORMATION RETURN

ANNUAL INFORMATION RETURN - TABLE 19 REGULATORY ACCOUNTS (HISTORICAL COST ACCOUNTING)
BALANCE SHEET AS AT 31 MARCH (TOTAL)

				1	2	3	4	5	6	7	8	9	10	11	12
	DESCRIPTION	UNITS	DP	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27
A	FIXED ASSETS														
1	Tangible fixed assets	£m	3	2139.613	2201.787	2262.482	3128.612	3274.623	3414.428	3601.661	3841.955	4134.420			
2	Investment - loan to group company	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000			
3	Investment - other	£m	3	0.091	0.091	0.091	0.015	5.015	5.000	5.000	5.000	5.000			
4	Total fixed assets	£m	3	2139.704	2201.878	2262.573	3128.627	3279.638	3419.428	3606.661	3846.955	4139.420			
B	CURRENT ASSETS														
5	Stocks	£m	3	2.368	2.347	2.469	2.947	3.554	4.310	4.424	5.137	5.236			
6	Debtors	£m	3	29.832	30.386	62.428	70.856	71.492	65.229	82.202	81.020	88.959			
7	Cash	£m	3	2.015	0.412	0.723	5.711	1.359	23.860	67.212	55.399	86.904			
8	Short term deposits	£m	3	1.000	2.501	2.508	1.270	1.276	1.277	1.278	1.287	1.311			
9	Infrastructure renewals prepayment	£m	3												
10	Total current assets	£m	3	35.215	35.646	71.701	80.784	77.681	94.676	155.116	142.843	182.410			
C	CREDITORS: AMOUNTS FALLING DUE WITHIN ONE YEAR														
11	Overdrafts	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000			
12	Infrastructure renewals accrual	£m	3												
13	Creditors	£m	3	-131.139	-136.204	-129.195	-128.224	-128.380	-153.551	-177.659	-206.402	-235.831			
14	Borrowings	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000			
15	Corporation tax payable	£m	3	-0.189	-0.189	0.228	0.232	0.682	0.682	1.545	0.323	0.000			
16	Ordinary share dividends payable	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000			
17	Preference share dividends payable	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000			
18	Total creditors	£m	3	-137.172	-137.314	-128.967	-127.992	-127.698	-152.869	-176.114	-206.079	-235.831			
19	Net current assets	£m	3	-101.957	-101.668	-57.266	-47.208	-50.017	-58.193	-20.998	-63.236	-53.421			
D	CREDITORS: AMOUNTS FALLING DUE AFTER MORE THAN ONE YEAR														
20	Borrowings	£m	3	-983.560	-1013.560	-1082.560	-1337.867	-1371.904	-1445.962	-1605.279	-1748.218	-1950.262			
21	Other creditors	£m	3	-91.751	-89.305	-87.360	-1.500	-0.537	-1.116	-2.039	-1.893	-0.878			
22	Total creditors	£m	3	-1,075.311	-1,102.865	-1,169.920	-1,339.367	-1,372.441	-1,447.078	-1,607.318	-1,750.111	-1,951.140			
E	PROVISION FOR LIABILITIES AND CHARGES														
23	Deferred tax provision	£m	3	-195.465	-202.263	-221.641	-170.041	-206.586	-218.763	-299.339	-303.051	-325.566			
24	Deferred income - grants and contributions	£m	3	-22.301	-23.070	-25.769	-426.885	-483.401	-524.487	-560.089	-584.939	-619.673			
25	Post employment asset / (liabilities)	£m	3	-5.880	-54.767	-18.915	-29.575	-34.436	-48.545	-19.898	35.789	44.972			
26	Other provisions	£m	3	-5.035	-4.886	-4.739	-4.170	-3.990	-2.982	-9.864	-10.807	-7.394			
F	PREFERENCE SHARE CAPITAL														
27	Preference share capital	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000			
28	Net assets employed	£m	3	733.755	712.359	764.323	1111.381	1128.767	1119.380	1089.155	1170.600	1227.198			
G	CAPITAL AND RESERVES														
29	Called up share capital	£m	3	500.000	500.000	500.000	500.000	500.000	500.000	500.000	500.000	500.000			
30	Share premium	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000			
31	Profit and loss account	£m	3	62.065	40.669	92.633	439.691	457.077	447.690	417.465	498.910	555.508			
32	Other reserves	£m	3	171.690	171.690	171.690	171.690	171.690	171.690	171.690	171.690	171.690			
33	Capital and reserves	£m	3	733.755	712.359	764.323	1111.381	1128.767	1119.380	1089.155	1170.600	1227.198			

Table 19 – HC Balance Sheet as at 31 March 2024

The balance sheet in the published regulatory accounts includes a separate analysis of unappointed activities.

The retained profit for the year is £49.366m (post dividend).

The P&L reserves in the Balance Sheet increased by £49.366m and this movement can be shown as follows:

Retained profit for the year	£49.366m
Pension scheme actuarial gains net of deferred tax	£7.231m
Movement in P&L Account	**£56.597m**

The regulatory accounts was produced in accordance with international accounting standards in conformity with the requirements of, and as applied in accordance with the provisions of, the Companies Act 2006, for the year end 31st March 2024 as directed by the Utility Regulator.

No minority interests exist.

The elements of PPP included in the table are as follows:

Line 1 - Tangible Fixed Assets

	[redacted]	[redacted]	[redacted]	**Total**
	£m	£m	£m	**£m**
Gross	133.63	155.89	14.39	**303.91**
Acc. Deprec	(57.09)	(63.57)	(8.16)	**(128.82)**
NBV	**76.54**	**92.32**	**6.23**	**175.09**

Line - 13 Creditors falling due within one year

	[redacted]	[redacted]	[redacted]	**Finance lease (IFRS 16)**	**Total**
	£m	£m	£m	£m	£m
Lease obligation due < 1 yr	6.055	6.765	0.046	0.089	**12.955**
Accruals	2.177	9.015	0.216	-	**11.408**
Total	**8.232**	**15.780**	**0.262**	**0.089**	**24.363**

Line 21 - Other creditors falling due after more than one year

	[redacted]	[redacted]	[redacted]	**Finance lease (IFRS 16)**	**Total**
	£m	£m	£m	£m	£m
Lease obligation due > 1 yr	58.374	81.378	0.000	0.950	**140.702**

Significant features and movements

Fixed Assets

Increase of £292m in line with in year additions of £402m, capital contributions of £10.6m, HC depreciation of £109m, disposals of £1.707m.

Debtors

Increased by £7.939m from £81.020m to £88.959m (9.8%). This is primarily due to:

- Measured, unmeasured and TE debtors decreased by £5.2m.
- Measured, unmeasured and TE bad debt provision decreased by £0.5m.
- Accrued income from measured and TE customers increased by £3.9m.
- VAT receivable debtors increased by £0.7m.
- DfI Subsidy debtor increased by £0.01m.
- Other Prepayments increased by £2.0m.
- PPP Capital maintenance decreased by £3.2m.
- Intercompany debtor cash pooling increased by £1.3m.

Cash and Short term deposits

Cash has increased by £31.506m from £55.399m to £86.905m (56.87%) and short term deposits have increased by £0.024m from £1.287m to £1.311m (1.86%).

The cashflow statement in Table 28 illustrates the uses of these cash and deposit monies in contributing to meeting the non opex expenditure needs for the year. This can be summarised as follows:

Non opex expenditure	
Capex	£368.025m
Net Interest paid	£ 60.466m
Dividend paid	£ 18.113m
Finance Lease payments	£ 12.083m
Increase in deposit monies	£ 0.025m
Additional loan to subsidiaries	£ 0.750m
Increase in cash	£ 31.506m
Total	**£490.968m**

Funded by:	
Generated from operations	£274.135m
Grants and contributions	£ 0.845m
Loans	£215.000m
Disposal of fixed assets	£ 0.193m
Insurance proceeds	£ 0.000m
Repayment of loan from subsidiaries	£ 0.795m
Total	**£490.968m**

Deferred tax

The deferred tax balance has increased from £303.051m to £325.566m. An explanation for this has been included in the commentary to Table 18.

Borrowings > 1 year (Capital loan notes)

Borrowings have increased by £215m from £1,594.560m to £1,809.560m. The additions to capital expenditure during the year were £368m. The increase in borrowings were used to

partly fund these additions to capital expenditure with the balance of capital being financed through capital contributions and working capital.

Post-employment asset/ (liabilities)

The Pension asset of £35.789m increased to a pension asset of £44.972m (a change in value of 25.66%).

This can be shown as follows:

	£m
Opening balance at 1.4.23	**35.789**
Current Service Costs	(11.567)
Administration Costs	(1.300)
Past Service Costs	(0.454)
Contributions	14.593
Finance Cost	2.590
Actuarial Gain	9.642
Increase in Deferred tax liability on asset	(4.321)
Closing balance 31.3.24	**44.972**

Other provisions

Decreased from £10.808m to £7.394m (-31.59%).

This decrease of £3.414m can be summarised as follows:

	£m
Decrease in holiday pay provision	(0.080)
Increase in Public Liability provision	0.161
Decrease in Employer Liability provision	(0.052)
Decrease in Omega Obligation provision	(3.443)
Total	**(3.414)**

PPP – Infrastructure renewals charge (IRC) and expenditure (IRE)

– Capital Maintenance

The table below summarises the IRC, IRE and capital maintenance during 2023/24 in relation to the PPP projects:

	[redacted]	[redacted]	[redacted]	**Total**
	£m	£m	£m	**£m**
IRE	-	-	-	**-**
IRC	-	-	-	**-**
Capital maintenance	4.367	2.466	1.170	**8.003**

[redacted] is treated as 'on balance sheet' and an amount of the unitary charge for [redacted] is deemed to be related to the carrying out of capital maintenance by the operator. For 2023-24 this is confirmed by the operator to be [redacted] This amount is credited to the Profit and Loss account and debited to Alpha fixed assets.

[redacted] is treated as ‘on balance sheet’ and an amount of the unitary charge for [redacted] is deemed to be related to the carrying out of capital maintenance by the operator. For 2023-24 this is confirmed by the operator to be [redacted]. This amount is credited to the Profit and Loss account and debited to Omega fixed assets.

[redacted] is treated as ‘on balance sheet’ and an amount of the unitary charge for [redacted] is deemed to be related to the carrying out of capital maintenance by the operator. For 2023-24 this is confirmed by the operator to be [redacted]

This capital maintenance is assumed to be 100% non-infrastructure and there are no infrastructure additions to [redacted] in 2023-24 (2022-23: nil). There has therefore been no apportionment of IRC in 2023-24 (2022-23: nil).

NORTHERN IRELAND WATER LIMITED ANNUAL INFORMATION RETURN

ANNUAL INFORMATION RETURN TABLE 19a ANALYSIS OF BORROWINGS DUE AFTER MORE THAN ONE YEAR (HISTORICAL COST ACCOUNTING)
BALANCE SHEET AS AT 31 MARCH

	1	2	3	4	5	6	7	8	9
	DESCRIPTION	YEARS TO MATURITY years 0dp	PRINCIPAL SUM £m 3dp	Years to maturity x principle sum £m 3dp	REAL COUPON % 2dp	NOMINAL INTEREST RATE % 2dp	FULL YEAR EQUIVALENT NOMINAL £m 3dp	FULL YEAR EQUIVALENT REAL CASH £m 3dp	CARRYING VALUE £m 3dp
A	BORROWINGS IN HEDGING RELATIONSHIPS								
A1	Fixed rate instruments								
1									
~									
50									
A2	Floating rate instruments								
51									
"									
100									
A3	Index linked instruments								
101									
"									
150									
	TOTAL FOR HEDGING INSTRUMENTS								
B	BORROWINGS DESIGNATED AT FAIR VALUE THROUGH PROFIT AND LOSS								
B1	Fixed rate instruments								
151									
"									
200									
B2	Floating rate instruments								
201									
"									
250									
B3	Index linked instruments								
251									
"									
300									
	TOTAL FOR BORROWINGS DESIGNATED AT FAIR VALUE THROUGH PROFIT AND LOSS								
C	OTHER BORROWINGS								
C1	Fixed rate instruments								
301	Finance lease - Capital House (Building)	0	1.109			2.20%			0.055
302	Finance lease - Ballywa ter (Land)	0	0.101			2.20%			0.000
303	Finance lease - Dunore solar panel (Land)	19	0.756			2.20%			0.629
304	Finance lease - Dromore WWTW (Land)	0	0.031			2.20%			0.000
305	Finance lease - Sea outfalls (Infrastructure)	47	0.387			2.20%			0.355
306									
307									
308									
C2	Floating rate instruments								
351									
"									
400									
C3	Index linked instruments								
401									
"									
450									
	TOTAL FOR OTHER BORROWINGS								
D	TOTALS								
E	RPI assumption								

F	ANALYSIS	
F	INDICATIVE INTEREST RATES	
F1	Nominal interest	
F2	Cash interest	
G	INDICATIVE DEBT PORTFOLIO BREAKDOWN	
G1	Floating rate debt as percentage of total debt	
G2	Fixed rate debt as percentage of total debt	
G3	Index inked debt as percentage of total debt	
G4	Fixed rate debt and index inked debt as percentage of total debt	
G5	Weighted average years to maturity	

NORTHERN IRELAND WATER LIMITED - ANNUAL INFORMATION RETURN

ANNUAL INFORMATION RETURN - TABLE 19a ANALYSIS OF BORROWINGS DUE AFTER MORE THAN ONE YEAR (HISTORICAL COST ACCOUNTING)
BALANCE SHEET AS AT 31 MARCH 2022

	1	2	3	4	5	6	7	8	9
	DESCRIPTION	YEARS TO MATURITY years 0dp	PRINCIPAL SUM £m 3dp	Years to maturity x principle sum £m 3dp	REAL COUPON % 2dp	NOMINAL INTEREST RATE % 2dp	EQUIVALENT NOMINAL £m 3dp	EQUIVALENT REAL CASH £m 3dp	CARRYING VALUE £m 3dp
A	BORROWINGS IN HEDGING RELATIONSHIPS								
A1	Fixed rate instruments								
1									
-									
50									
A2	Floating rate instruments								
51									
-									
100									
A3	Index linked instruments								
101									
-									
150									
	TOTAL FOR HEDGING INSTRUMENTS								
B	BORROWINGS DESIGNATED AT FAIR VALUE THROUGH PROFIT AND LOSS								
B1	Fixed rate instruments								
151									
-									
200									
B2	Floating rate instruments								
201									
-									
250									
B3	Index linked instruments								
251									
-									
300									
	TOTAL FOR BORROWINGS DESIGNATED AT FAIR VALUE THROUGH PROFIT AND LOSS								
C	OTHER BORROWINGS								
C1	Fixed rate instruments								
301	Capital loan note issued under GBP £1.2802bn Fixed Coupon Unsecured Loan note instrument 2027	3	627.560	1882.680	0.95%	5.25%	32.947	32.947	627.560
302	Capital loan note issued under GBP £1.2802bn Fixed Coupon Unsecured Loan note instrument 2027	3	20.000	60.000	0.73%	5.03%	1.006	1.006	20.000
303	Capital loan note issued under GBP £1.2802bn Fixed Coupon Unsecured Loan note instrument 2027	3	20.000	60.000	0.59%	4.89%	0.978	0.978	20.000
304	Capital loan note issued under GBP £1.2802bn Fixed Coupon Unsecured Loan note instrument 2027	3	20.000	60.000	0.18%	4.48%	0.896	0.896	20.000
305	Capital loan note issued under GBP £1.2802bn Fixed Coupon Unsecured Loan note instrument 2027	3	10.000	30.000	0.83%	5.13%	0.513	0.513	10.000
306	Capital loan note issued under GBP £1.2802bn Fixed Coupon Unsecured Loan note instrument 2027	3	10.000	30.000	0.86%	5.16%	0.516	0.516	10.000
307	Capital loan note issued under GBP £1.2802bn Fixed Coupon Unsecured Loan note instrument 2027	3	10.000	30.000	0.97%	5.27%	0.527	0.527	10.000
308	Capital loan note issued under GBP £1.2802bn Fixed Coupon Unsecured Loan note instrument 2027	3	20.000	60.000	0.75%	5.05%	1.010	1.010	20.000
309	Capital loan note issued under GBP £1.2802bn Fixed Coupon Unsecured Loan note instrument 2027	3	5.000	15.000	0.50%	4.80%	0.240	0.240	5.000
310	Capital loan note issued under GBP £1.2802bn Fixed Coupon Unsecured Loan note instrument 2027	3	15.000	45.000	0.09%	4.39%	0.659	0.659	15.000
311	Capital loan note issued under GBP £1.2802bn Fixed Coupon Unsecured Loan note instrument 2027	3	7.000	21.000	-0.80%	3.50%	0.245	0.245	7.000
312	Capital loan note issued under GBP £1.2802bn Fixed Coupon Unsecured Loan note instrument 2027	3	10.000	30.000	-0.93%	3.37%	0.337	0.337	10.000
313	Capital loan note issued under GBP £1.2802bn Fixed Coupon Unsecured Loan note instrument 2027	3	15.000	45.000	-0.68%	3.62%	0.543	0.543	15.000
314	Capital loan note issued under GBP £1.2802bn Fixed Coupon Unsecured Loan note instrument 2027	3	18.000	54.000	-0.62%	3.68%	0.662	0.662	18.000
315	Capital loan note issued under GBP £1.2802bn Fixed Coupon Unsecured Loan note instrument 2027	3	8.000	24.000	-0.66%	3.64%	0.291	0.291	8.000
316	Capital loan note issued under GBP £1.2802bn Fixed Coupon Unsecured Loan note instrument 2027	3	8.000	24.000	-0.94%	3.36%	0.269	0.269	8.000
317	Capital loan note issued under GBP £1.2802bn Fixed Coupon Unsecured Loan note instrument 2027	3	5.000	15.000	-1.08%	3.22%	0.161	0.161	5.000
318	Capital loan note issued under GBP £1.2802bn Fixed Coupon Unsecured Loan note instrument 2027	3	20.000	60.000	-1.24%	3.06%	0.612	0.612	20.000
319	Capital loan note issued under GBP £1.2802bn Fixed Coupon Unsecured Loan note instrument 2027	3	10.000	30.000	-1.17%	3.13%	0.313	0.313	10.000
320	Capital loan note issued under GBP £1.2802bn Fixed Coupon Unsecured Loan note instrument 2027	3	24.000	72.000	-1.08%	3.22%	0.773	0.773	24.000
321	Capital loan note issued under GBP £1.2802bn Fixed Coupon Unsecured Loan note instrument 2027	3	5.000	15.000	-0.31%	3.99%	0.200	0.200	5.000
322	Capital loan note issued under GBP £1.2802bn Fixed Coupon Unsecured Loan note instrument 2027	3	8.000	24.000	-0.20%	4.10%	0.328	0.328	8.000
323	Capital loan note issued under GBP £1.2802bn Fixed Coupon Unsecured Loan note instrument 2027	3	5.000	15.000	-0.35%	3.95%	0.198	0.198	5.000
324	Capital loan note issued under GBP £1.2802bn Fixed Coupon Unsecured Loan note instrument 2027	3	11.000	33.000	-0.39%	3.91%	0.430	0.430	11.000
325	Capital loan note issued under GBP £1.2802bn Fixed Coupon Unsecured Loan note instrument 2027	3	5.000	15.000	-0.44%	3.86%	0.193	0.193	5.000
326	Capital loan note issued under GBP £1.2802bn Fixed Coupon Unsecured Loan note instrument 2027	3	5.000	15.000	-0.58%	3.72%	0.186	0.186	5.000
327	Capital loan note issued under GBP £1.2802bn Fixed Coupon Unsecured Loan note instrument 2027	3	5.000	15.000	-0.39%	3.91%	0.196	0.196	5.000
328	Capital loan note issued under GBP £1.2802bn Fixed Coupon Unsecured Loan note instrument 2027	3	5.000	15.000	-1.15%	3.15%	0.158	0.158	5.000
329	Capital loan note issued under GBP £1.2802bn Fixed Coupon Unsecured Loan note instrument 2027	3	5.000	15.000	-1.10%	3.20%	0.160	0.160	5.000
330	Capital loan note issued under GBP £1.2802bn Fixed Coupon Unsecured Loan note instrument 2027	3	8.000	24.000	-1.50%	2.80%	0.224	0.224	8.000
331	Capital loan note issued under GBP £1.2802bn Fixed Coupon Unsecured Loan note instrument 2027	3	3.000	9.000	-1.69%	2.61%	0.078	0.078	3.000
332	Capital loan note issued under GBP £1.2802bn Fixed Coupon Unsecured Loan note instrument 2027	3	13.000	39.000	-1.64%	2.66%	0.346	0.346	13.000
333	Capital loan note issued under GBP £1.2802bn Fixed Coupon Unsecured Loan note instrument 2027	3	5.000	15.000	-1.24%	3.06%	0.153	0.153	5.000
334	Capital loan note issued under GBP £1.2802bn Fixed Coupon Unsecured Loan note instrument 2027	3	8.000	24.000	-1.38%	2.92%	0.234	0.234	8.000
335	Capital loan note issued under GBP £1.2802bn Fixed Coupon Unsecured Loan note instrument 2027	3	5.000	15.000	-1.63%	2.67%	0.134	0.134	5.000
336	Capital loan note issued under GBP £1.2802bn Fixed Coupon Unsecured Loan note instrument 2027	3	5.000	15.000	-1.82%	2.48%	0.124	0.124	5.000
337	Capital loan note issued under GBP £600m Fixed Coupon Unsecured Loan note instrument 2034	10	5.000	50.000	-1.35%	2.95%	0.148	0.148	5.000
338	Capital loan note issued under GBP £600m Fixed Coupon Unsecured Loan note instrument 2034	10	5.000	50.000	-1.89%	2.41%	0.121	0.121	5.000
339	Capital loan note issued under GBP £600m Fixed Coupon Unsecured Loan note instrument 2034	10	5.000	50.000	-1.59%	2.71%	0.136	0.136	5.000
340	Capital loan note issued under GBP £600m Fixed Coupon Unsecured Loan note instrument 2034	10	5.000	50.000	-1.69%	2.61%	0.131	0.131	5.000
341	Capital loan note issued under GBP £600m Fixed Coupon Unsecured Loan note instrument 2034	10	10.000	100.000	-1.87%	2.43%	0.243	0.243	10.000
342	Capital loan note issued under GBP £600m Fixed Coupon Unsecured Loan note instrument 2034	10	28.000	280.000	-1.88%	2.42%	0.678	0.678	28.000
343	Capital loan note issued under GBP £600m Fixed Coupon Unsecured Loan note instrument 2034	10	12.000	120.000	-1.69%	2.61%	0.313	0.313	12.000
344	Capital loan note issued under GBP £600m Fixed Coupon Unsecured Loan note instrument 2034	10	5.000	50.000	-1.75%	2.55%	0.128	0.128	5.000
345	Capital loan note issued under GBP £600m Fixed Coupon Unsecured Loan note instrument 2034	10	5.000	50.000	-1.72%	2.58%	0.129	0.129	5.000
346	Capital loan note issued under GBP £600m Fixed Coupon Unsecured Loan note instrument 2034	10	5.000	50.000	-1.89%	2.41%	0.121	0.121	5.000
347	Capital loan note issued under GBP £600m Fixed Coupon Unsecured Loan note instrument 2034	10	6.000	60.000	-1.73%	2.57%	0.154	0.154	6.000
348	Capital loan note issued under GBP £600m Fixed Coupon Unsecured Loan note instrument 2034	10	8.000	80.000	-1.81%	2.49%	0.199	0.199	8.000
349	Capital loan note issued under GBP £600m Fixed Coupon Unsecured Loan note instrument 2034	10	17.000	170.000	-1.66%	2.64%	0.449	0.449	17.000
350	Capital loan note issued under GBP £600m Fixed Coupon Unsecured Loan note instrument 2034	10	8.000	80.000	-1.64%	2.66%	0.213	0.213	8.000
351	Capital loan note issued under GBP £600m Fixed Coupon Unsecured Loan note instrument 2034	10	10.000	100.000	-1.86%	2.44%	0.244	0.244	10.000
352	Capital loan note issued under GBP £600m Fixed Coupon Unsecured Loan note instrument 2034	10	7.000	70.000	-1.82%	2.48%	0.174	0.174	7.000
353	Capital loan note issued under GBP £600m Fixed Coupon Unsecured Loan note instrument 2034	10	7.000	70.000	-1.96%	2.34%	0.164	0.164	7.000
354	Capital loan note issued under GBP £600m Fixed Coupon Unsecured Loan note instrument 2034	10	15.000	150.000	-2.11%	2.19%	0.329	0.329	15.000
355	Capital loan note issued under GBP £600m Fixed Coupon Unsecured Loan note instrument 2034	10	5.000	50.000	-2.78%	1.52%	0.076	0.076	5.000
356	Capital loan note issued under GBP £600m Fixed Coupon Unsecured Loan note instrument 2034	10	15.000	150.000	-2.73%	1.57%	0.236	0.236	15.000
357	Capital loan note issued under GBP £600m Fixed Coupon Unsecured Loan note instrument 2034	10	7.000	70.000	-2.53%	1.77%	0.124	0.124	7.000
358	Capital loan note issued under GBP £600m Fixed Coupon Unsecured Loan note instrument 2034	10	13.000	130.000	-2.85%	1.45%	0.189	0.189	13.000
359	Capital loan note issued under GBP £600m Fixed Coupon Unsecured Loan note instrument 2034	10	5.000	50.000	-2.95%	1.35%	0.068	0.068	5.000
360	Capital loan note issued under GBP £600m Fixed Coupon Unsecured Loan note instrument 2034	10	5.000	50.000	-2.95%	1.35%	0.068	0.068	5.000
361	Capital loan note issued under GBP £600m Fixed Coupon Unsecured Loan note instrument 2034	10	5.000	50.000	-3.02%	1.28%	0.064	0.064	5.000
362	Capital loan note issued under GBP £600m Fixed Coupon Unsecured Loan note instrument 2034	10	5.000	50.000	-3.00%	1.30%	0.065	0.065	5.000
363	Capital loan note issued under GBP £600m Fixed Coupon Unsecured Loan note instrument 2034	10	15.000	150.000	-2.98%	1.32%	0.198	0.198	15.000
364	Capital loan note issued under GBP £600m Fixed Coupon Unsecured Loan note instrument 2034	10	39.000	390.000	-2.80%	1.50%	0.585	0.585	39.000
365	Capital loan note issued under GBP £600m Fixed Coupon Unsecured Loan note instrument 2034	10	9.000	90.000	-2.59%	1.71%	0.154	0.154	9.000
366	Capital loan note issued under GBP £600m Fixed Coupon Unsecured Loan note instrument 2034	10	10.000	100.000	-2.41%	1.89%	0.189	0.189	10.000
367	Capital loan note issued under GBP £600m Fixed Coupon Unsecured Loan note instrument 2034	10	20.000	200.000	-2.33%	1.97%	0.394	0.394	20.000
368	Capital loan note issued under GBP £600m Fixed Coupon Unsecured Loan note instrument 2034	10	20.000	200.000	-2.43%	1.87%	0.374	0.374	20.000
369	Capital loan note issued under GBP £600m Fixed Coupon Unsecured Loan note instrument 2034	10	15.000	150.000	-2.28%	2.02%	0.303	0.303	15.000
370	Capital loan note issued under GBP £600m Fixed Coupon Unsecured Loan note instrument 2034	10	15.000	150.000	-2.31%	1.99%	0.299	0.299	15.000
371	Capital loan note issued under GBP £600m Fixed Coupon Unsecured Loan note instrument 2034	10	10.000	100.000	-2.38%	1.92%	0.192	0.192	10.000
372	Capital loan note issued under GBP £600m Fixed Coupon Unsecured Loan note instrument 2034	10	15.000	150.000	-2.63%	1.67%	0.251	0.251	15.000
373	Capital loan note issued under GBP £600m Fixed Coupon Unsecured Loan note instrument 2034	10	10.000	100.000	-2.15%	2.15%	0.215	0.215	10.000
374	Capital loan note issued under GBP £600m Fixed Coupon Unsecured Loan note instrument 2034	10	20.000	200.000	-1.78%	2.52%	0.504	0.504	20.000
375	Capital loan note issued under GBP £600m Fixed Coupon Unsecured Loan note instrument 2034	10	35.000	350.000	-1.71%	2.59%	0.907	0.907	35.000
376	Capital loan note issued under GBP £1,750m Fixed Coupon Unsecured Loan note instrument 2042	18	15.000	270.000	-0.34%	3.96%	0.594	0.594	15.000
377	Capital loan note issued under GBP £1,750m Fixed Coupon Unsecured Loan note instrument 2042	18	25.000	450.000	0.57%	4.87%	1.218	1.218	25.000
378	Capital loan note issued under GBP £1,750m Fixed Coupon Unsecured Loan note instrument 2042	18	10.000	180.000	0.94%	5.24%	0.524	0.524	10.000
379	Capital loan note issued under GBP £1,750m Fixed Coupon Unsecured Loan note instrument 2042	18	16.000	288.000	0.21%	4.51%	0.722	0.722	16.000
380	Capital loan note issued under GBP £1,750m Fixed Coupon Unsecured Loan note instrument 2042	18	15.000	270.000	0.25%	4.55%	0.683	0.683	15.000
381	Capital loan note issued under GBP £1,750m Fixed Coupon Unsecured Loan note instrument 2042	18	25.000	450.000	0.30%	4.60%	1.150	1.150	25.000
382	Capital loan note issued under GBP £1,750m Fixed Coupon Unsecured Loan note instrument 2042	18	29.000	522.000	0.50%	4.80%	1.392	1.392	29.000
383	Capital loan note issued under GBP £1,750m Fixed Coupon Unsecured Loan note instrument 2042	18	20.000	360.000	0.38%	4.68%	0.936	0.936	20.000
384	Capital loan note issued under GBP £1,750m Fixed Coupon Unsecured Loan note instrument 2042	18	10.000	180.000	0.62%	4.92%	0.492	0.492	10.000
385	Capital loan note issued under GBP £1,750m Fixed Coupon Unsecured Loan note instrument 2042	18	10.000	180.000	0.88%	5.18%	0.518	0.518	10.000
386	Capital loan note issued under GBP £1,750m Fixed Coupon Unsecured Loan note instrument 2042	18	10.000	180.000	1.10%	5.40%	0.540	0.540	10.000
387	Capital loan note issued under GBP £1,750m Fixed Coupon Unsecured Loan note instrument 2042	18	25.000	450.000	1.33%	5.63%	1.408	1.408	25.000
388	Capital loan note issued under GBP £1,750m Fixed Coupon Unsecured Loan note instrument 2042	18	15.000	270.000	1.37%	5.67%	0.851	0.851	15.000
389	Capital loan note issued under GBP £1,750m Fixed Coupon Unsecured Loan note instrument 2042	18	25.000	450.000	1.45%	5.75%	1.438	1.438	25.000
390	Capital loan note issued under GBP £1,750m Fixed Coupon Unsecured Loan note instrument 2042	18	30.000	540.000	1.48%	5.78%	1.734	1.734	30.000
391	Capital loan note issued under GBP £1,750m Fixed Coupon Unsecured Loan note instrument 2042	18	10.000	180.000	0.79%	5.09%	0.509	0.509	10.000
392	Capital loan note issued under GBP £1,750m Fixed Coupon Unsecured Loan note instrument 2042	18	15.000	270.000	1.04%	5.34%	0.801	0.801	15.000
393	Capital loan note issued under GBP £1,750m Fixed Coupon Unsecured Loan note instrument 2042	18	15.000	270.000	1.08%	5.38%	0.807	0.807	15.000
394	Capital loan note issued under GBP £1,750m Fixed Coupon Unsecured Loan note instrument 2042	18	50.000	900.000	0.94%	5.24%	2.620	2.620	50.000
C2	Floating rate instruments								
351									
-									
400									
C3	Index linked instruments								
401									
-									
450									
	TOTAL FOR OTHER BORROWINGS		1809.560				75.292	75.292	1809.560
D	TOTALS		1809.560	14170.680			75.292	75.292	1809.560

E	RPI assumption	4.3%

F	ANALYSIS	
F	INDICATIVE INTEREST RATES	
F1	Nominal interest	4.2%
F2	Cash interest	4.2%
G	INDICATIVE DEBT PORTFOLIO BREAKDOWN	
G1	Floating rate debt as percentage of total debt	0
G2	Fixed rate debt as percentage of total debt	100.0%
G3	Index linked debt as percentage of total debt	0
G4	Fixed rate debt and index linked debt as percentage of total debt	100.0%
G5	Weighted average years to maturity	8

Table 19a – Analysis of Borrowings due after more than One Year

At 31 March 2024 NIW borrowings related to Capital Loan Notes issued under three loan note agreements; £1,280,200,000 Fixed Coupon Unsecured Loan note 2027, £600,000,000 Fixed Coupon Unsecured Loan note 2034 and £1,750,000,000 Fixed Coupon Unsecured Loan note 2042.

The Loan notes were issued under £1,750,000,000 Fixed Coupon Unsecured Loan Note 2042 facility in the period from August 2022 to 31 March 2024 as the £1,280,200,000 Fixed Coupon Unsecured Loan note 2027 facility expired on 31 March 2016 and the £600,000,000 Fixed Coupon Unsecured Loan note 2034 facility expired on 31 March 2022.

The three facilities provide finance for capital investment or other purposes approved by the lender, the Department for Infrastructure.

The loan note subscription agreements provide that the loan notes in issue before 31 March 2010 carry a fixed rate of interest of 5.25%. Loan notes issued after this date carry fixed interest rates based on a margin of 0.85% above the reference gilt rate published by FTSE-Tradeweb on the date of issue of the loan note. FTSE-Tradeweb prices are the successor prices to those produced by the UK HM Government Debt Management Office (UK DMO) up until 21 July 2017 when the UK DMO ceased producing reference prices for gilts.

In 2023/24 Capital loan notes were accounted for as held to maturity borrowings.

In addition to the capital loan note instrument NIW had a committed facility available as a £20m overdraft which is available to 31 December 2027 or the end of any later extension period brought into effect for the contract between Northern Bank Limited (trading as Danske Bank) of Donegall Square West, Belfast, BT1 6JS (the "**Bank**") and the NICS dated 1 February 2023 reference ID3151653. That facility was not utilised during 2023/24.

At 31 March 2024, NIW had finance leases which were created at the inception of IFRS 16 Leases. Any finance leases with amount due after more than one year have been shown separately in the Table itself.

NORTHERN IRELAND WATER LIMITED - ANNUAL INFORMATION RETURN

ANNUAL INFORMATION RETURN - TABLE 21 REGULATORY ACCOUNTS (HISTORIC COST ACCOUNTING)
ACTIVITY COSTING ANALYSIS - WATER SERVICE (NIW Only)

	DESCRIPTION	UNITS	DP	1 WATER RESOURCES & TREATMENT	2 WATER DISTRIBUTION	3 WATER SERVICE TOTAL
	SERVICE ANALYSIS - WATER					
A	**DIRECT COSTS**					
1	Employment costs	£m	3	4.748	12 236	16.984
2	Power	£m	3	9.086	6.778	15.864
3	Agencies	£m	3	0.000	0 000	0.000
4	Hired and contracted services	£m	3	3.810	12.137	15.947
5	Associated companies	£m	3	0.000	0 000	0.000
6	Materials and consumables	£m	3	8.727	0 558	9.285
7	Service charges	£m	3	0.768	0 000	0.768
8	Bulk supply imports	£m	3	0.000	0 000	0.000
9	Other direct costs	£m	3	0.291	0 014	0.305
10	Total direct costs	£m	3	27.430	31.723	59.153
11	General and support expenditure	£m	3	17.284	16 682	33.966
12	Functional expenditure	£m	3	44.714	48.405	93.119
B	**OPERATING EXPENDITURE**					
13	Customer services	£m	3			7.038
14	Scientific services	£m	3			2.714
15	Other business activities	£m	3			0.503
16	Total business activities	£m	3			10.255
17	Rates	£m	3			8.434
18	Doubtful debts	£m	3			0.411
19	Exceptional items	£m	3			0.000
20	Total opex less third party services	£m	3			112.219
21	Third party services - opex	£m	3			0.000
21a	PPP Unitary Charges (Opex element)	£m	3			
22	Total operating expenditure	£m	3			112.219
22a	Payment by concessionaire to operator	£m	3			
C	**OPEX)**					
23	Reactive and planned maintenance infrastructure	£m	3	0.000	10.743	10.743
24	Reactive and planned maintenance non-infrastructure	£m	3	0.249	7.149	7.398
D	**CAPITAL MAINTENANCE**					
25	Infrastructure renewals charge (excluding third party services)	£m	3			
26	Depreciation (allocated)	£m	3	14.009	25.430	39.439
27	Amortisation of deferred credits	£m	3			
28	Amortisation of intangible assets	£m	3			0.000
29	Business activities depreciation (non-allocated)	£m	3			0.001
30	Capital maintenance excluding third party services	£m	3			35.408
31	Third party services –depreciation	£m	3			0.000
32	Third party services - infrastructure renewals charge	£m	3			
33	Total capital maintenance	£m	3			35.408
34	Total operating costs	£m	3			140.423
E	**ADDITIONAL DISCLOSURES**					
35	Infrastructure renewals charge (excluding third party services)	£m	3	25.432	0 000	25.432
36	Amortisation of deferred credits	£m	3			0.191
37	Third party services - infrastructure renewals charge	£m	3			0.000

NORTHERN IRELAND WATER LIMITED - ANNUAL INFORMATION RETURN

ANNUAL INFORMATION RETURN - TABLE 21 REGULATORY ACCOUNTS (HISTORIC COST ACCOUNTING)
ACTIVITY COSTING ANALYSIS - WATER SERVICE - (PPP Only)

	DESCRIPTION	UNITS	DP	1 WATER RESOURCES & TREATMENT	2 WATER DISTRIBUTION	3 WATER SERVICE TOTAL
	SERVICE ANALYSIS - WATER					
A	**DIRECT COSTS**					
1	Employment costs	£m	3			
2	Power	£m	3	9.073	0.000	9.073
3	Agencies	£m	3			
4	Hired and contracted services	£m	3			
5	Associated companies	£m	3			
6	Materials and consumables	£m	3			
7	Service charges	£m	3	0.096	0.000	0.096
8	Bulk supply imports	£m	3			
9	Other direct costs	£m	3	0.000	0.000	0.000
10	Total direct costs	£m	3	9.169	0.000	9.169
11	General and support expenditure (NIW Only)	£m	3	0.370	0.000	0.370
12	Functional expenditure	£m	3	9.539	0.000	9.539
B	**OPERATING EXPENDITURE**					
13	Customer services	£m	3			
14	Scientific services	£m	3			0.000
15	Other business activities	£m	3			
16	Total business activities	£m	3			0.000
17	Rates	£m	3			6.746
18	Doubtful debts	£m	3			
19	Exceptional items	£m	3			
20	Total opex less third party services	£m	3			16.285
21	Third party services - opex	£m	3			
21a	PPP Unitary Charges (Opex element)	£m	3			14.667
22	Total operating expenditure	£m	3			30.952
22a	Payment by concessionaire to operator	£m	3	10.042	0.000	10.042
C	**OPEX)**					
23	Reactive and planned maintenance infrastructure	£m	3			
24	Reactive and planned maintenance non-infrastructure	£m	3			
D	**CAPITAL MAINTENANCE**					
25	Infrastructure renewals charge (excluding third party services)	£m	3			
26	Depreciation (allocated)	£m	3	4.198	0.000	4.198
27	Amortisation of deferred credits	£m	3			
28	Amortisation of intangible assets	£m	3			0.000
29	Business activities depreciation (non-allocated)	£m	3			0.000
30	Capital maintenance excluding third party services	£m	3			4.127
31	Third party services -depreciation	£m	3			0.000
32	Third party services - infrastructure renewals charge	£m	3			
33	Total capital maintenance	£m	3			4.127
34	Total operating costs	£m	3			41.072
E	**ADDITIONAL DISCLOSURES**					
35	Infrastructure renewals charge (excluding third party services)	£m	3	0.000	0.000	0.000
36	Amortisation of deferred credits	£m	3			0.000
37	Third party services - infrastructure renewals charge	£m	3			0.000

NORTHERN IRELAND WATER LIMITED - ANNUAL INFORMATION RETURN

ANNUAL INFORMATION RETURN - TABLE 21 REGULATORY ACCOUNTS (HISTORIC COST ACCOUNTING)
ACTIVITY COSTING ANALYSIS - WATER SERVICE - (TOTAL)

	DESCRIPTION	UNITS	DP	1 WATER RESOURCES & TREATMENT	2 WATER DISTRIBUTION	3 WATER SERVICE TOTAL
	SERVICE ANALYSIS - WATER					
A	**DIRECT COSTS**					
1	Employment costs	£m	3	4.748	12.236	16.984
2	Power	£m	3	18.159	6.778	24.937
3	Agencies	£m	3	0.000	0.000	0.000
4	Hired and contracted services	£m	3	3.810	12.137	15.947
5	Associated companies	£m	3	0.000	0.000	0.000
6	Materials and consumables	£m	3	8.727	0.558	9.285
7	Service charges	£m	3	0.864	0.000	0.864
8	Bulk supply imports	£m	3	0.000	0.000	0.000
9	Other direct costs	£m	3	0.291	0.014	0.305
10	Total direct costs	£m	3	36.599	31.723	68.322
11	General and support expenditure	£m	3	17.654	16.682	34.336
12	Functional expenditure	£m	3	54.253	48.405	102.658
B	**OPERATING EXPENDITURE**					
13	Customer services	£m	3			7.038
14	Scientific services	£m	3			2.714
15	Other business activities	£m	3			0.503
16	Total business activities	£m	3			10.255
17	Rates	£m	3			15.180
18	Doubtful debts	£m	3			0.411
19	Exceptional items	£m	3			0.000
20	Total opex less third party services	£m	3			128.504
21	Third party services - opex	£m	3			0.000
21a	PPP Unitary Charges (Opex element)	£m	3			14.667
22	Total operating expenditure	£m	3			143.171
22a	Payment by concessionaire to operator	£m	3	10.042	0.000	10.042
C	**OPEX)**					
23	Reactive and planned maintenance infrastructure	£m	3	0.000	10.743	10.743
24	Reactive and planned maintenance non-infrastructure	£m	3	0.249	7.149	7.398
D	**CAPITAL MAINTENANCE**					
25	Infrastructure renewals charge (excluding third party services)	£m	3			
26	Depreciation (allocated)	£m	3	18.207	25.430	43.637
27	Amortisation of deferred credits	£m	3			
28	Amortisation of intangible assets	£m	3			0.000
29	Business activities depreciation (non-allocated)	£m	3			0.001
30	Capital maintenance excluding third party services	£m	3			39.535
31	Third party services –depreciation	£m	3			0.000
32	Third party services - infrastructure renewals charge	£m	3			
33	Total capital maintenance	£m	3			39.535
34	Total operating costs	£m	3			181.495
E	**ADDITIONAL DISCLOSURES**					
35	Infrastructure renewals charge (excluding third party services)	£m	3	25.432	0.000	25.432
36	Amortisation of deferred credits	£m	3			0.191
37	Third party services - infrastructure renewals charge	£m	3			0.000

NORTHERN IRELAND WATER LIMITED - ANNUAL INFORMATION RETURN

ANNUAL INFORMATION RETURN - TABLE 22 REGULATORY ACCOUNTS (HISTORIC COST ACCOUNTING)
ACTIVITY COSTING ANALYSIS - SEWERAGE SERVICE (NIW Only)

	DESCRIPTION	UNITS	DP	1 SEWERAGE	2 SEWAGE TREATMENT	3 SLUDGE TREATMENT & DISPOSAL	4 SEWERAGE SERVICE TOTAL
	SERVICE ANALYSIS - SEWERAGE						
A	**DIRECT COSTS**						
1	Employment costs	£m	3	5.987	5.222	0.000	11.209
2	Power	£m	3	9.421	14.619	2.101	26.141
3	Agencies	£m	3	0.000	0.000	0.000	0.000
4	Hired and contracted services	£m	3	6.967	1.954	3.851	12.772
5	Associated companies	£m	3	0.000	0.000	0.000	0.000
6	Materials and consumables	£m	3	0.605	1.226	0.300	2.131
7	Service charges	£m	3	0.004	0.866	0.298	1.168
8	Other direct costs	£m	3	0.009	0.006	0.000	0.015
9	Total direct costs	£m	3	22.993	23.893	6.550	53.436
10	General and support expenditure	£m	3	13.563	20.336	3.959	37.858
11	Functional expenditure	£m	3	36.556	44.229	10.509	91.294
B	**OPERATING EXPENDITURE**						
12	Customer services	£m	3				6.173
13	Scientific services	£m	3				2.274
14	Other business activities	£m	3				0.441
15	Total business activities	£m	3				8.888
16	Rates	£m	3				11.160
17	Doubtful debts	£m	3				0.396
18	Exceptional items	£m	3				0.000
19	Total opex less third party services	£m	3				111.738
20	Third party services - opex	£m	3				0.000
20a	PPP Unitary Charges (Opex element)	£m	3				
21	Total operating expenditure	£m	3				111.738
21a	Payment by concessionaire to operator	£m	3				
C	**OPEX)**						
22	Reactive and planned maintenance infrastructure	£m	3	2.522	0.000	0.000	2.522
23	Reactive and planned maintenance non-infrastructure	£m	3	14.021	2.787	0.000	16.808
D	**CAPITAL MAINTENANCE**						
24	Infrastructure renewals charge (excluding third party services)	£m	3				
25	Depreciation (allocated)	£m	3	11.934	47.706	1.280	60.920
26	Amortisation of deferred credits	£m	3				
27	Amortisation of intangible assets	£m	3				0.000
28	Business activities depreciation (non-allocated)	£m	3				0.000
29	Capital maintenance excluding third party services	£m	3				60.920
30	Third party services - depreciation	£m	3				0.000
31	Third party services - infrastructure renewals charge	£m	3				
32	Total capital maintenance	£m	3				60.920
33	Total operating costs	£m	3				172.658
E	**ADDITIONAL DISCLOSURES**						
34	Infrastructure renewals charge (excluding third party services)	£m	3	25.669		0.000	25.669
35	Amortisation of deferred credits	£m	3				5.145
36	Third party services - infrastructure renewals charge	£m	3				0.000

NORTHERN IRELAND WATER LIMITED - ANNUAL INFORMATION RETURN

ANNUAL INFORMATION RETURN - TABLE 22 REGULATORY ACCOUNTS (HISTORIC COST ACCOUNTING)
ACTIVITY COSTING ANALYSIS - SEWERAGE SERVICE (PPP Only)

	DESCRIPTION	UNITS	DP	1 SEWERAGE	2 SEWAGE TREATMENT	3 SLUDGE TREATMENT & DISPOSAL	4 SEWERAGE SERVICE TOTAL
	SERVICE ANALYSIS - SEWERAGE						
A	**DIRECT COSTS**						
1	Employment costs	£m	3				
2	Power	£m	3	0.000	4.474	2.023	6.497
3	Agencies	£m	3				
4	Hired and contracted services	£m	3				
5	Associated companies	£m	3				
6	Materials and consumables	£m	3				
7	Service charges	£m	3				
8	Other direct costs	£m	3	0.000	0.000	0.000	0.000
9	Total direct costs	£m	3	0.000	4.474	2.023	6.497
10	General and support expenditure (NIW Only)	£m	3	0.000	0.226	0.066	0.292
11	Functional expenditure	£m	3	0.000	4.700	2.089	6.789
B	**OPERATING EXPENDITURE**						
12	Customer services	£m	3				
13	Scientific services	£m	3				0.106
14	Other business activities	£m	3				
15	Total business activities	£m	3				0.106
16	Rates	£m	3				1.497
17	Doubtful debts	£m	3				
18	Exceptional items	£m	3				
19	Total opex less third party services	£m	3				8.392
20	Third party services - opex	£m	3				
20a	PPP Unitary Charges (Opex element)	£m	3				
21	Total operating expenditure	£m	3				
21a	Payment by concessionaire to operator	£m	3				
C	**OPEX)**						
22	Reactive and planned maintenance infrastructure	£m	3				
23	Reactive and planned maintenance non-infrastructure	£m	3				
D	**CAPITAL MAINTENANCE**						
24	Infrastructure renewals charge (excluding third party services)	£m	3				
25	Depreciation (allocated)	£m	3	0.000	4.867	0.000	4.867
26	Amortisation of deferred credits	£m	3				
27	Amortisation of intangible assets	£m	3				0.000
28	Business activities depreciation (non-allocated)	£m	3				0.000
29	Capital maintenance excluding third party services	£m	3				4.867
30	Third party services - depreciation	£m	3				0.000
31	Third party services - infrastructure renewals charge	£m	3				
32	Total capital maintenance	£m	3				4.867
33	Total operating costs	£m	3				
E	**ADDITIONAL DISCLOSURES**						
34	Infrastructure renewals charge (excluding third party services)	£m	3	0.000		0.000	0.000
35	Amortisation of deferred credits	£m	3				0.000
36	Third party services - infrastructure renewals charge	£m	3				0.000

NORTHERN IRELAND WATER LIMITED - ANNUAL INFORMATION RETURN

ANNUAL INFORMATION RETURN - TABLE 22 REGULATORY ACCOUNTS (HISTORIC COST ACCOUNTING)
ACTIVITY COSTING ANALYSIS - SEWERAGE SERVICE (Total)

	DESCRIPTION	UNITS	DP	1 SEWERAGE	2 SEWAGE TREATMENT	3 SLUDGE TREATMENT & DISPOSAL	4 SEWERAGE SERVICE TOTAL
	SERVICE ANALYSIS - SEWERAGE						
A	**DIRECT COSTS**						
1	Employment costs	£m	3	5.987	5.222	0.000	11.209
2	Power	£m	3	9.421	19.093	4.124	32.638
3	Agencies	£m	3	0.000	0.000	0.000	0.000
4	Hired and contracted services	£m	3	6.967	1.954	3.851	12.772
5	Associated companies	£m	3	0.000	0.000	0.000	0.000
6	Materials and consumables	£m	3	0.605	1.226	0.300	2.131
7	Service charges	£m	3	0.004	0.866	0.298	1.168
8	Other direct costs	£m	3	0.009	0.006	0.000	0.015
9	Total direct costs	£m	3	22.993	28.367	8.573	59.933
10	General and support expenditure	£m	3	13.563	20.562	4.025	38.150
11	Functional expenditure	£m	3	36.556	48.929	12.598	98.083
B	**OPERATING EXPENDITURE**						
12	Customer services	£m	3				6.173
13	Scientific services	£m	3				2.380
14	Other business activities	£m	3				0.441
15	Total business activities	£m	3				8.994
16	Rates	£m	3				12.657
17	Doubtful debts	£m	3				0.396
18	Exceptional items	£m	3				0.000
19	Total opex less third party services	£m	3				120.130
20	Third party services - opex	£m	3				0.000
20a	PPP Unitary Charges (Opex element)	£m	3				
21	Total operating expenditure	£m	3				
21a	Payment by concessionaire to operator	£m	3				
C	**OPEX)**						
22	Reactive and planned maintenance infrastructure	£m	3	2.522	0.000	0.000	2.522
23	Reactive and planned maintenance non-infrastructure	£m	3	14.021	2.787	0.000	16.808
D	**CAPITAL MAINTENANCE**						
24	Infrastructure renewals charge (excluding third party services)	£m	3				
25	Depreciation (allocated)	£m	3	11.934	52.573	1.280	65.787
26	Amortisation of deferred credits	£m	3				
27	Amortisation of intangible assets	£m	3				0.000
28	Business activities depreciation (non-allocated)	£m	3				0.000
29	Capital maintenance excluding third party services	£m	3				65.787
30	Third party services - depreciation	£m	3				0.000
31	Third party services - infrastructure renewals charge	£m	3				
32	Total capital maintenance	£m	3				65.787
33	Total operating costs	£m	3				
E	**ADDITIONAL DISCLOSURES**						
34	Infrastructure renewals charge (excluding third party services)	£m	3	25.669		0.000	25.669
35	Amortisation of deferred credits	£m	3				5.145
36	Third party services - infrastructure renewals charge	£m	3				0.000

Tables 21 & 22 Activity Costing Analysis – Water & Sewerage Service

The costs in Tables 21 & 22 are populated with the updated information available at 30th May 2024 for the year ended 31st March 2024. AIR24 costs are reported using IFRS following the change made in AIR19.

Allocation of costs between expenditure types

Expenditure is classified as capital expenditure if it satisfies the following criteria:

- It exceeds the threshold limit set at £1,000 (Note: land has a capital threshold of zero) and,
- It was used for one or more of the following purposes:
    1. Initial construction or purchase of a fixed asset (e.g. land, buildings, vehicles, plant, computers);
    2. Extension of a fixed asset which increases its size or operating capacity;
    3. Improvement of a fixed asset beyond the assets original condition on construction or acquisition;
    4. To substantially extend the original life of a fixed asset;
    5. To renew or replace an existing fixed asset; and
    6. Contributions paid to another body towards the cost of work that would be fixed asset expenditure were it undertaken by NI Water, provided that the resultant ownership of the assets is vested in NI Water.

Some items, individually, may be valued at less than £1,000 but because they form part of an operational configuration they should be capitalised; for example workstations which comprise a monitor, keyboard, central processor, mouse and printer should be capitalised.

Cost includes own work capitalised comprising the direct costs of materials, labour and applicable overheads. Interest costs relating to the acquisition of fixed assets have not been capitalised in AIR24. This is consistent with past years.

Fixed assets comprise:

- **Infrastructure assets**
  Infrastructure assets comprise a network of systems consisting of mains and sewers, impounding and pumped raw water storage reservoirs, sludge pipelines and sea outfalls. The infrastructure renewals charge for infrastructure assets is included in Tables 21 and 22 and is the estimated level of annual expenditure required to maintain the operating capability of the network, which is based on the Company's Asset Management Plan.
- **Other assets**
  Other assets comprise:
  a) Land and non-operational buildings;
  b) Operational assets (consisting of sites used for water and wastewater treatment, pumping or storage where not classified as infrastructure); and
  c) Vehicles, mobile plant and equipment.

Allocation of costs between service areas

All costs entered to NI Water's Oracle General Ledger (GL) have a 5-segment coding combination (account, cost centre, service activity, location and project). For the purpose of Tables 21 & 22 Opex costs from the General Ledger have been allocated between Water and Sewerage services and between service areas within the Water and Sewerage activities by mapping NI Water's Oracle General Ledger to the tables using the coding structure.

Expense Groups are mapped to the NIAUR cost categories – **Appendix 1** provides details of this mapping. The Services Activities segment is mapped to the NIAUR service areas – **Appendix 2** provides details of this mapping.

The only exception to this is in direct General & Support expenditure, which can relate to more than one service area or activity. These costs are collated into 5 separate 'Overhead Pots' and are apportioned either on the basis of the directly coded spend; on the basis of the total direct costs or in the case of M&E function costs using a split provided by the business. The quantum of the apportionment of the General Overhead Pots has increased from AIR23 to AIR24 (by circa £15.8M). This is explained in the General & Support section further on in the commentary. The table below shows the basis of apportionment of 'indirect' General & Support expenditure between service activities in AIR24.

Allocation of General and Support		Water		Sewerage			
Description	Amount £	R&T	Distribution	Sewerage	Sewage Treatment	Sludge Treatment & Disp	Comments
G&S Overhead Pot 1	56,568,452	28.3%	25.1%	18.2%	21.8%	6.6%	Non ops general spend. Excludes CS, SS & Regulation
G&S Overhead Pot 2a - Water	699,237	53.0%	47.0%	0.0%	0.0%	0.0%	Water related activities only
G&S Overhead Pot 2b - Sewerage	264,270	0.0%	0.0%	39.1%	46.8%	14.1%	Sewerage activities only
G&S Overhead Pot 3 SA 390	-276,750	28.3%	25.1%	18.2%	21.8%	6.6%	Water and sewerage networks spend only
G&S Overhead Pot 3 M&E	12,271,306	4.4%	13.4%	23.2%	58.9%	0.0%	M&E Function split based on split supplied by M&E Function

The percentage splits in AIR24 used to allocate General & Support expenditure are consistent with AIR23. The allocation to Water from General & Support Overhead Pot 1, which contains approx. 81% of the costs, is 53.4% in AIR24 (53.4% in AIR23).

There is no longer any cost associated with the CRC Energy Efficiency Scheme previously included within Power.

During the year NI Water incurred less than £0.1M in fines, associated costs and provisions for fines. These costs are included within General & Support costs. In 2023-24 NI Water has not paid any fines under the Streetworks (NI) Order.

Allocation of costs to business activities and rates

All costs which relate to business activities e.g. Customer Services, Scientific Services and Regulation, were collated using the relevant cost centre segment from the Oracle General Ledger. The total expenditure attributable to these activities is apportioned to Water and Sewerage on the basis of the directly coded spend. This basis is consistent with past returns. The allocation to Water has increased from 52.4% in AIR23 to 53.3% in AIR24 and subsequently Sewerage has decreased from 47.6% in AIR23 to 46.7% in AIR24. This is driven by a decrease in Power costs which has reduced the total direct costs in Sewerage.

The table below shows the basis of apportionment for AIR24.

Apportionment of business activities		Water		Sewerage		
Description	Total £	R&T	Distribution	Sewerage	Sewage Treatment	Sludge Treatment & Disp
BASIS - Total spend (Includes general & Support)	129,181,066	28.3%	25.0%	18.1%	22.0%	6.6%
Apportionment						
Water / Sewerage split	100%	53.3%		46.7%		

Rates are coded correctly at source and have fed into the relevant Table. In AIR24 Water rates have decreased to 54.5% from 59.6% in AIR23. Subsequently Sewerage rates have increase to 45.6% from 40.4% in AIR23. This is driven by a NAV revaluation in 23/24.

Allocation of costs to unappointed activities

A final allocation of costs has been made to unappointed activities based on an assumption that these activities are either charged on a full cost recovery basis, and thus costs broadly

mirror income generated, or the income does not give rise to any additional operational costs (e.g. rents received or fishing rights). This is consistent with previous AIR returns.

Atypical costs and provisions

2023/24 Atypical costs and credits

Description	Amount	Comment
PPP atypicals	[redacted]	Primarily relating to Omega BREF costs. See PPP section of this commentary for further information.
BI consultancy	£0.6M	Only BI related consultancy costs are deemed to be atypical. In addition to consultancy costs, NIW also incurred £1.8M in staff related costs and £0.1M in other costs in order to deliver the BI (ACE) programme in 2023-24.
Major Incidents	£0.3M	Costs arising from High Demand in June 2023.
Holiday Pay	£9.2M	Holiday Pay Settlement based on Supreme Court judgement on the PSNI Case
Total	[redacted]	

Business Improvement (BI) Programme

The Business Improvement Programme, also known as ACE (Achieving Customer Excellence) seeks to address four strategic strands:

- Improve services to Customers;
- Develop the NI Water people;
- Build a more efficient and effective organisation; and
- Exceed, where possible, quality compliance standards.

Total Opex on the BI Programme in AIR24 was £2.5M which is £0.3M lower than AIR23 (£2.8M). This is due to a decrease in Consultancy Fees.

Voluntary Early Retirement / Voluntary Severance / Ill Health retirement

During 2023-24 NI Water made no payments under Voluntary Early Retirement (VER), Voluntary Severance (VS) and Ill Health Retirement schemes. This is in line with AIR23.

Negative Opex

NIW generate income from the sale of electricity and Renewable Obligation Certificates (ROCs) by way of water turbine and solar installations and from payments made for participation in the security of electricity supply back up services. In 2023-24 this income amounted to £1.5M which is a decrease of £0.3M from AIR23. This was mostly driven by energy tariffs.

Employment Costs

Staff costs for total NI Water come to circa £76.6M as detailed below which has increased from AIR23 (£71.1M). Only circa £28.2M is included in Employment Costs (Line 1) in Tables 21 & 22 (AIR23 circa £25.6M).

The table below provides the reconciliation between these amounts:

Description	Amount	Table 21/22 location
Industrial Wages	£23.5M	
Salaries	£51.2M	
Temporary Staff	£0.6M	
Other Costs of Employment	£0.3M	
Staff Expenses	£1.0M	
Total NI Water staff costs	**£76.6M**	
Less:		
Customer Services	(£6.5M)	Customer Services
Scientific Services	(£2.7M)	Scientific Services
Regulation	(£0.8M)	Other Business Activities
Unallocated	(£38.4M)	General & Support
Total Employment Costs	**£28.2M**	**£17.0M Table 21 and £11.2M Table 22**

The unallocated amount of circa £38.4M is included in General & Support and has been apportioned between Table 21 and 22, across each of the columns, based on total direct costs, with the exception of M&E Employment costs which are allocated on the basis of a split provided by the business.

Total NI Water staff costs have increased by approximately £5.5M from AIR23 (£71.1M) due to an increase in Industrial Wages of £3.4M and an increase in Salaries of £2.2M. Wages and Salaries have increased primarily due to annual pay increases.

Hired & Contracted

Hired and Contracted Services of circa £28.7M in Table 21 and Table 22 are split out in the table below. The corresponding charge in the AIR23 was circa £26.9M.

Hired & Contracted Services:	Table 21	Table 22	TOTAL
Operational Contractors	£13.9M	£12.5M	£26.4M
Other Contractors	£1.6M	£0.0M	£1.6M
Outsourcing	£0.4M	£0.3M	£0.7M
Consultants	£0.0M	£0.0M	£0.0M
TOTAL	**£15.9M**	**£12.8M**	**£28.7M**

Within the Contractors costs of £15.9M in Table 21, circa £3.8M relates to the cost of contractors for Water Treatment with the balance being the cost of contractors to facilitate the maintenance of the networks. This is a £1.3M increase from AIR23 which will be explained in Table 21 Line 4 below. Within the Operational Contractors cost of £12.8M in Table 22, circa £3.9M is for the cost of the various Sludge Disposal Routes, circa £7.0M is for the maintenance of the Sewerage network and the balance relates to the costs of Sewage Treatment (including the costs of Skip Hire etc.). The cost of the maintenance of the Sewerage Network has increased by £0.5M from AIR23. This will be explained in Table 22 Line 4 below.

There is no spend on Consultants Fees within Hired and Contracted in AIR24.

General & Support Costs

General & Support costs have increased by circa £15.8M from AIR23 (£56.7M) to AIR24 (£72.5M).

The principal costs in this expenditure line are:

Description	Amount	Table 21/22 location
Unallocated Employment Costs	£38.4M	Included in General & Support (Removed from Employment Costs)
Unallocated Power	£0.8M	Included in General & Support (Removed from Power Costs)
Unallocated Hired & Contracted Costs	£10.9M	Included in General & Support (Removed from Hired & Contracted)
Unallocated Materials & Consumables	£2.4M	Included in General & Support (Removed from Materials & Consumables)
Unallocated Other Direct Costs	£14.9M	Included in General & Support (Removed from Other Direct Costs)
Communication	£0.9M	General & Support
Mobile V&P Charges	£1.4M	General & Support
Other	£2.8M	General & Support
Total	**£72.5M**	**£34.3M Table 21 and £38.2M Table 22**

General & Support costs were apportioned across Table 21 & Table 22 based on either the total direct costs allocated to each column or in the case of the M&E Function based on a split as supplied by the Function. Service Activities are mapped to the NIAUR service areas in **Appendix 2**. This approach was consistently applied to both AIR24 and AIR23. See the **Allocation of costs between service areas** section at the start of the commentary.

The main difference from AIR23 is in Unallocated Other Direct Costs (£9.2M increase). Other significant differences include Unallocated Employment Costs (£1.9M increase) and Unallocated Hired & Contracted (£2.5M increase).

The increase in Unallocated Other Direct Costs and Unallocated Hired & Contracted is due to expenditure on major projects to move NIW's financial system and customer contact & billing system to cloud based solutions.

The increase in Unallocated Employment Costs has been explained under Employment Costs.

Table 21 PPP only

Line 2 - Power costs

Power costs for the PPP Alpha sites of £9.073m has reduced by 42.3% from the AIR23 reported figure of £15.728m. The average price per unit (APPU) for electricity (all lots) reduced by 30.0%, therefore, an overall reduction of 42.3% appears reasonable when coupled with distribution input from Alpha sites falling by 2.4% in the reporting year.

Line 7 - Service charges

This line includes the costs of abstraction licences at each of the PPP Alpha sites. The figure has increased by an inflationary amount from AIR23.

Line 11 - General & support expenditure

General and support expenditure has been calculated on the same basis as in AIR22. These costs have increased from that reported in AIR22 (£370k vs £175k) largely due additional legal costs on the Alpha contract in connection with deeds of variation.

Line 14 - Scientific services

The company does not incur any net costs associated with scientific services for Alpha as costs are offset by a reduction in the payment to the PPP Concessionaire.

Line 17 - Rates

Rates costs allocated to PPP have reduced by 14.0% (£6.746m in AIR24 vs £7.840m in AIR23). The overall cumulo rates charge reduced by 12.0% and the proportion of DI being taken from PPP sites also reduced from 45.79% to 44.78%.

Line 21a - PPP unitary charges (Opex)

This line data is drawn directly from the Company's accounts. No additional reconciliation is required.

During the reporting year the Alpha Concessionaire recognised performance deductions of £0.384m and this is reflected in the £14.667m opex charge. The charge also includes an atypical credit of £0.770m as follows:

Quality Monitoring Change credit	(£0.621m)
EIB Step-down	(£0.067m)
Refund in respect of reorganisation costs	(£0.082m)
Total	**(£0.770m)**

Further details on each of these are given in the commentary to table 42 line 10.
The increase of £1.558m in the unitary charge cost from AIR22 is made up as follows:

Increase in capacity charge	£1.204m
Increase in volumetric charge (inflation and flow related)	£0.551m
Increase in performance deductions	(£0.036m)
Increase in atypical credits	(£0.048m)
Increase in amounts capitalised	(£0.483m)
Decrease in interest element of charge	£0.370m
	£1.558m

Line 22a - Payment by concessionaire to operator

Inputs for this line are obtained directly from the PPP contractor.

Table 22 PPP only

Line 2 - Power costs

Power costs have reduced from AIR23 by 32.9%. This includes a 24.7% reduction in sewage treatment and a 46.0% reduction in sludge treatment & disposal. Average APPU in the reporting year fell by 30.0% from AIR23 over all lots.

In sewage treatment, flows were 15.2% higher than AIR23, driven by rainfall which was 25.5% higher than the prior year. When coupled with the APPU reduction, the overall 24.7% reduction in AIR24 seems reasonable.

In terms of sludge disposal, incinerated sludge volumes were 4.0% lower than AIR23. Self-generated units from the incinerator were 43.0% higher meaning an overall decrease of 11.2% in grid units used by the incinerator since AIR23. The APPU of these grid units was 37.6% lower than the previous year. When combined with Ballynacor STC costs (which were down 23.5% on AIR23), the overall reduction in sludge disposal is 46.0%.

The allocation of the Ballynacor site costs between Sludge & WW has been revised to reflect actual usage, however there is still a 1 year lag with 2022-23 actuals being used as a proxy for 2023-24 as outturn reports are not available until July. The allocation to sludge has reduced from 15.49% in AIR23 to 15.24% in AIR24. All other allocations are consistent with AIR22.

Kinnegar: Power costs are not recorded as

i) they are not paid directly by the Company and
ii) they are part of the Unitary Charge payment to the Concessionaire.

Line 8 - Other direct costs

Nil

Line 10 - General & support expenditure

The general and support expenditure has been calculated in the same way as for AIR23 reflecting all costs associated with P101 cost centre. These costs have reduced from [redacted] in AIR23 to [redacted] in AIR24 largely due to reduced consultancy costs.

Total general and support costs associated with the Omega contract were calculated at [redacted] and two sevenths of this has been allocated to column 3 to reflect costs associated with Duncrue and Ballynacor sludge facilities, the remaining five sevenths are associated with the 5 Omega WWTW facilities and are reported along with Kinnegar in column 2.

Line 13 - Scientific services

Scientific Services costs reflect the contract sampling and analysis costs borne by the Company in providing its sampling and analytical contractual obligations to the Kinnegar and Omega Facilities in Service: Kinnegar, North Down, Richhill, Ballyrickard, Ballynacor and Armagh. This cost has decreased from AIR23 [redacted] in AIR24 vs [redacted] in AIR23) mainly as a result of a PPP samples representing a lower proportion of all samples taken.

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Line 16 - Rates

The rates figure for Kinnegar and each of the Omega sites were taken directly from the rates bills. The bill for the Duncrue site was allocated between PPP and NIW in line with the total area of the site occupied by PPP. PPP occupy 15% of the Duncrue site. The increase in rates cost in AIR23 is 4.2% relative to AIR23.

Line 20a - PPP unitary charges (Opex)

Kinnegar costs have decreased by [redacted] from [redacted] in AIR23 to [redacted] in the reporting year. The difference is due to a number of factors as set out below:

Increase in volumetric charge (inflation and flow related)	[redacted]
Decrease in atypical credits	
Increase in amounts capitalised	
Decrease in interest element of charge	

Omega costs have increased by £3.264m from £11.558m in AIR23 to £14.822m in the reporting year. The movements causing this decrease have been set out below and is mainly due to higher variable costs.

Increase in volumetric charge (inflation and flow related)	[redacted]
Decrease in performance deductions	
Increase in atypical credits	
Increase in amounts capitalised	
Decrease in interest element of charge	

This line includes atypical credits of [redacted] on Omega and atypical debits of £0.022m in Kinnegar. Further details on all of these atypical amounts are given in the commentary to line 10 of table 42.

Line 21a - Payment by concessionaire to operator

Inputs for this line are obtained directly from the PPP contractor.

Table 21 – NI Water Total

A - Direct Costs

Table 21 Total Expenditure has increased by circa £1.2M from AIR23 to AIR24. This is mainly driven by increases in General & Support Expenditure £8.1M, Employment Costs £1.5M and Materials and Consumables £1.7M offset by a decrease in Power £12.9M as detailed below. Various other variances which are explained on a line-by-line basis below:

- Line 1: Employment costs have increased by circa £1.5M from AIR23. This is due to the annual inflationary pay rise.
- Line 2: Power costs include electricity costs and fuel costs for power generation. Overall the costs have decreased by £12.9M from AIR23. The reason for this is due to a large decrease in energy tariffs.
  Power costs include £9.1M related to PPP.
- Line 3: Agencies – there are no costs in this line.
- Line 4: Hired and Contracted Services have increased by circa £1.4M from AIR23. The increase is driven by higher reactive networks maintenance costs and higher grounds maintenance costs at impounding reservoirs in line with Reservoirs Act legislation.
- Line 5: Associated companies – there are no costs in this line.
- Line 6: Materials and Consumables have increased from AIR23 by £1.7M. The increase is driven by higher Material & Consumable costs due to factors such as energy costs & haulage costs. The main increase is in Chemicals where the

production process can be heavily energy dependent and suppliers had previously locked in energy costs at lower rates. With energy prices locked in it also takes time for rate reductions to materialise.

- Line 7: Service Charges – the costs are £0.9M with the majority of the costs in WRT for abstraction licences. These are broadly consistent with AIR23. Service Charges include circa £0.1M for PPP.
- Line 8: Bulk Supply imports – there are no costs in this line.
- Line 9: Other Direct Costs are immaterial and broadly in line with AIR23.
- Line 10: Total Direct Costs – this is a calculated line and is the total of Line 1-9. AIR24 direct costs are £8.0M lower than AIR23. This is driven by the decrease in Power as detailed above.
- Line 11: General & Support expenditure has increased by circa £8.1M from AIR23 to AIR24. The reason for the increase in General & Support expenditure has been explained above. A percentage of this is allocated to Table 21- see the Allocation of costs between service areas section at the start of the commentary. Service Activities are mapped to the NIAUR service areas in **Appendix 2**. See the **Allocation of costs between service areas** section at the start of the commentary.
  General & Support expenditure include circa £0.4M for PPP.
- Line 12: This is the calculated total line for functional expenditure which has increased by £0.1M from AIR23 as a result of the increase in General & Support Costs as explained in Line 11 above. Line 12 includes £9.5M of costs associated with PPP (AIR23 £16.0M).

B - Operating Expenditure

- Line 13: Customer Services costs have increased £0.5M from AIR23 in Table 21. This is driven by an increase in total Customer Services costs. The increase in costs is due to higher Outsourcing and Consultant costs relating to NIW Customer Contact and Billing System. Customer Services costs are apportioned based on the percentage of direct costs from Table 21 & 22. In AIR24 the percentage split was calculated at 53.3% Table 21 and 46.7% Table 22. In AIR23 the percentage split was 52.4% and 47.6% between Table 21 & 22 respectively.
- Line 14: Scientific Services costs have increased £0.5M from AIR23. This is driven by Employment Costs as detailed above. Scientific Services costs have been split using the same percentage basis as Customer Services as detailed above in line 13.
- Line 15: Other Business Activities – Regulatory costs have increased £0.2M from AIR23 as a result of higher Regulation consultancy costs. These costs are apportioned on the same basis as Line 13 and Line 14.
- Line 16: Total Business Activities – this is a calculated line and is the total of Line 13, 14 and 15 and has increased £1.2M from AIR23 as detailed above.
- Line 17: Local authority rates have decreased £2.0M from AIR23. This is driven by a NAV revaluation in 23/24. Rates include circa £6.7M relating to PPP sites.
- Line 18: Doubtful debts have increased by £0.4M from AIR23. The doubtful debts have split between Table 21 and Table 22 on a specific line by line basis, consistent with what was done in AIR23.
- Line 19: Exceptional items– there are no costs in this line.
- Line 20: Total Opex less third-party services – this is a calculated line and is the total of line 12,16,17,18 and 19. This has decreased by circa 0.3M from AIR23 driven by the decreases in the Rates as detailed above.
- Line 21: Third party services are immaterial.
- Line 21a: Total PPP Unitary Charge has increased by circa £1.6M from the AIR23 charge at £14.7M in AIR24. See Table 42 commentary for details.

- Line 22: Total operating expenditure, this is a calculated line and is the total of line 20, 21 and 21a. This line has increased by £1.2M from AIR23 due to the increase in PPP costs as discussed. This agrees to Table 35 line 24.
  Total operating expenditure includes circa £31.0M relating to PPP (AIR23 £36.9M).
- Line 22a: This figure has increased £1.2M from AIR23 and can vary from year to year depending upon volumes of water dispatched, changes in the volumetric charge, deductions incurred and indexation. See Table 42 commentary for details.

C Reactive & Planned Maintenance

- Line 23: Infrastructure, this figure has increased by circa £0.5M from AIR23. This is explained in Line 4 above.
- Line 24: Non-infrastructure, this figure has decreased by circa £3.6M from AIR23. This is as a result of the decreased Pumping costs driven by the decrease in Power costs.

Leakage costs

Operating costs relating to leakage have increased by £0.2M in AIR23 at £8.5M in AIR24. This is as a result of increased staff costs with the introduction of the Leakage Employment Accelerator Program. Capital expenditure has increased £0.6M from AIR23 to AIR24.

Table 22 – NI Water Total

A - Direct Costs

Total Expenditure in Table 22 has increased £2.7M from AIR23. This is mainly driven by increases in General & Support Expenditure £7.7M, Employment Costs £1.1M and PPP Unitary Charges £2.8M offset by a decrease in Power £11.8M as detailed below. Various other variances which are explained on a line-by-line basis below:

- Line 1: Employment costs have increased by circa £1.1M from AIR23. This is due to the annual inflationary pay rise.
- Line 2: Power costs include electricity costs and fuel costs for power generation. Overall the costs have decreased by £11.8M in AIR24 from AIR23. The reason for this is due to a large decrease in energy tariffs.

  In AIR24 the Wastewater Field Managers provided a percentage estimate of power costs between Sewage Treatment and Sludge Treatment at each of the WWTWs where there are both activities. These percentages were applied to the power costs to calculate the costs for each activity. This is the same rationale as AIR23.

  There is one electricity meter at Duncrue Street which includes the costs for the Belfast WWTWs and the Incinerators which are operated by PPP. The power team supplied an estimated 51:49 split between the Belfast WWTWs and the Incinerators (based on an estimated KWhr usage and a number of sub-meters) which has been used to calculate the amount relating to Sewage Treatment at Belfast WWTW's. The split in AIR23 was 44:56 for the Belfast and Incinerators..

  Power costs include £6.5M for PPP (AIR23 £9.7M).

- Line 3: Agencies – there are no costs in this line.
- Line 4: Hired and Contracted services have increased £0.4M from AIR23. The increase is driven by higher Sludge Disposal costs.
- Line 5: Associated companies– there are no costs in this line.

- Line 6: Materials & Consumables have increased £0.4M from AIR23. The increase is driven by higher Material & Consumable costs due to factors such as energy costs & haulage costs. The main increase is in Chemicals where the production process can be heavily energy dependent and suppliers had previously locked in energy costs at lower rates. With energy prices locked in it also takes time for rate reductions to materialise.
- Line 7: Service Charges are in line with AIR23.
- Line 8: Other Direct Costs are immaterial.
- Line 9: Total Direct Costs – this is a calculated line and is the total of lines 1-8. AIR24 direct costs are £10.0M lower than AIR23. This is driven by the decrease in Power as detailed above.
- Line 10: General & Support expenditure has increased by circa £7.7M from AIR23 to AIR24. The reason for the increase in General & Support expenditure has been explained above. A percentage of this is allocated to Table 22- see the Allocation of costs between service areas section at the start of the commentary. Service Activities are mapped to the NIAUR service areas in **Appendix 2**. See the **Allocation of costs between service areas** section at the start of the commentary.
  The NI Water Total costs include circa £0.3M for PPP (AIR23 £0.3M).
- Line 11: This is the calculated total line for Functional Expenditure which has decreased by £2.3M. This decrease is driven by the decrease in Power, offset by the increase in General & Support Costs as discussed above. Line 11 includes costs of £6.8M associated with PPP (AIR23 £10.0M).

B - Operating Expenditure

- Line 12: Customer Services costs have increased £0.2M from AIR23 in Table 22. Customer Services costs are apportioned based on the percentage of direct costs from Table 21 & 22. In AIR24 the percentage split was calculated 53.3% Table 21 and 46.7% Table 22. In AIR23 the percentage split was 52.4% and 47.6% between Table 21 & 22 respectively.
- Line 13: Scientific Services costs have increased £0.3M from AIR23. Scientific Services costs have been split using the same percentage basis as Customer Services as detailed above in line 12.
- Line 14: Other Business Activities – Regulatory costs have increased £0.2M from AIR23 as a result of higher Regulation consultancy costs. These costs have been apportioned on the same basis as line 12 and line 13.
- Line 15: Total Business Activities – this is a calculated line and is the total of Line 12, 13 and 14. This has increased £0.8M from AIR23 as detailed above.
- Line 16: Local authority rates have increased £1.0M from AIR23 as a result of a NAV revaluation in 23/24.
- Line 17: Doubtful debts have increased by £0.5M from AIR23. The doubtful debts have split between Table 21 and Table 22 on a specific line by line basis, consistent with what was done in AIR23.
- Line 18: Exceptional items– there are no costs in this line.
- Line 19: Total Opex less third-party services – this is a calculated line and is the total of Line 11, 15, 16, 17 and 18. This has decreased by £0.1M from AIR23.
- Line 20: Third party services are immaterial.
- Line 20a: Total PPP Unitary Charge has increased by circa £2.8M from AIR23. See Table 42 commentary for details.
- Line 21: Total operating expenditure, this is a calculated line and is the total of line 19, 20 and 20a. This line has increased by £2.7M from AIR23.
  Total operating expenditure includes £14.6M of costs associated with PPP (AIR23 £24.4M).

- Line 21a: Payments to Operators for Sewerage Services has changed to reflect:
  i) The variation in flows (and loads; in the case of Kinnegar) received from the NIW Catchment upon which the Contractor / Concessionaire and Operators revenue payments are based;
  ii) Any non-performance issues encountered by either Operator under their own contract arrangements with the Contractor / Concessionaire.

  The costs have increased by £1.4M to £14.6M in AIR24.

C - Reactive & Planned Maintenance

- Line 22: Infrastructure, this figure has decreased £0.1M from AIR23 to £2.5M. This is due to a decrease in investigations.
- Line 23: Non-infrastructure, this figure has decreased by circa £2.6M from AIR23 to £16.8M. This is due to a decrease in Power costs relating to Pumping.

Reactive and planned maintenance

The overall approach and allocation process for Tables 21 and 22 has remained consistent with AIR23. However there still remain some limitations to the coding which means that some expenditure, for example building and ground maintenance, cannot be split separately.

Pensions

Pension costs per the actuarial information at 31st March 2024 were £10.7M (AIR23 £22.0M) which amounts to £13.3M before interest income of £2.6M (AIR23 £21.4M before interest costs of £0.6M) and these were charged to the profit and loss account. This is made up of current service costs of £11.6M (AIR23 £20.2M) and past service costs of £0.5M (AIR23 £Nil). These costs have been included in general and support costs and employment costs in Tables 21 and 22 on the basis outlined in the cost allocation section above.

The total employer pension contributions for the year were £14.6M (AIR23 £13.3M (£13.3M normal employer contribution & £Nil additional employer contributions) including £Nil relating to payment of 2023/24 past service costs.

These costs have been included in general and support costs and employment costs in Tables 21 and 22. Pension costs for those employees who can be directly attributed to service or business activities will be mapped directly to these areas via the wages and salaries codes as outlined in the cost allocation methodology. Pension costs that relate to either employees not engaged directly on service/business activities or that relate to past service costs (i.e. VER provision) will be apportioned to activities in line with the treatment of general and support expenditure as detailed in the cost methodology.

Pension costs and finance charges associated with employees involved with unappointed activities have not been specifically excluded from pension figures within the profit and loss account. However as noted in the costing section above an estimate of the costs of

unappointed activities has been adjusted for during the costs allocation process and it has been assumed that an element of this allocation would cover pension costs.

The pension fund at 31st March 2024 has now gone into a surplus (asset) position compared to last year.

Further disclosures on pensions are contained in the statutory accounts which are based on the company's actuarial report at 31st March 2024.

Third party costs

Third party costs remain negligible in AIR24 and relate primarily to services recharged to third parties. The associated income is reported in Table 23 as third-party income.

Infrastructure Renewals Charge (IRC)

See Commentary for Table 33.

Appendix 1 – Expense group mapping

Expense Group	Desc	Table 21 & 22 mapping
511X	Industrial Wages	Employment
513X	Other Wage Costs	Employment
514X	Other Costs of Employment	Employment
515X	Salaries	Employment
516X	Non-Industrial Expenses	Employment
517X	Temporary Support Staff	Employment
611X	Cost Reallocations	Employment
612X	N/A	Employment
613X	N/A	Employment
614X	N/A	Employment
521X	Power	Power
531X	Operational Contractors	Hired and Contracted
532X	Other Contractors	Hired and Contracted
534X	Out sourcing	Hired and Contracted
538X	Consultants Fees	Hired and Contracted
541X	Materials and Equipment	Materials & consumables
544X	Non Operations Materials	Materials & consumables
547X	Stock Adjustments	Materials & consumables
548X	Chemicals	Materials & consumables
5562 & 5565	Environmental Regulator & Crown Estates	Service Charges
536X	Office and Computer Services	Other direct costs
537X	Legal and other professional fees	Other direct costs
551X	Accommodation	Other direct costs
553X	Insurance - Premiums	Other direct costs
553Y	Insurance - Claims	Other direct costs
554X	Public Liability	Other direct costs
555X	Employer's Liability	Other direct costs
616X	N/A	Other direct costs
695X	Management Task	Other direct costs
759X	Overheads Capitalised	Other direct costs
518X	Staff Training & Hospitality	General & support
533X	V&P repairs	General & support
539X	Audit	General & support
546X	Mobile V&P Charges	General & support
552X	Communication	General & support
556X	Other Grants and Subscriptions	General & support
557X	Advertising and Publicity	General & support
641X	Intra Departmental Notionals	General & support
651X	Inter Departmental Notionals	General & support
772X	Bad Debts	Doubtful debts
775X	Discount Allowed	Customer services
558X	Rates	Rates
5561	Regulatory Costs	Other Business Activities
534Y	PPP	PPP unitary charge

Appendix 2 – Service activity mapping

NIW Service Activity	Service Activity description	Table 21/22 Mapping
310	Pumping (Inc Highlift at WTW)	Water - Distribution
311	Service Resv Wat Tower Tanks	
312	Service Resv cleaning	
313	Distribution and Water Operations	
320	Repair and Maintenance (Mains Repair)	
321	Repair and Maintenance (Service Repair)	
322	Repair and Maintenance (Hydrant & Valve Repairs)	
323	R&M (NIFRS Hydrant & Valve Repairs)	
324	Repair and Maintenance (Mains Cleansing)	
326	Repair and Maintenance (Lead Replacement)	
331	Repair and Maintenance of 'Street Furniture' (Water)	
340	Leakage - Monitoring	
341	Leakage - Detection	
342	Hydrant & Valve Repairs as identified by	
343	Service Repairs as identified by active	
344	Mains Repairs as identified by active Le	
351	Consumer Meter Repair & Maintenance	
360	Investigations	
362	Customer Contacts excluding meter query	
363	Regulatory Plumbing Inspection	
380	'In House' Investigations and Attendance	
385	Health & Safety - Networks	
391	Networks Function Activity -Query	
399	Networks Stores	
920	Connection (Water)	
110	Impounding Reservoir	Water - Resource & Treatment
111	Loughs	
112	River Intakes	
113	Boreholes,Springs & Wells	
120	Repairs & Maint A/duct/Main	
140	Recreation & Amenity	
150	Water Treatment	
151	Water Sludge Treatment	
152	Water Sludge Disposal	
185	Health & Safety - Supply	
190	Supply Function Activity	
191	Supply Function Activity - Query	
822	Instrumental Control Activity M & E Water Supply	
410	Repair & Maintenance of Sewers	Sewerage - Sewerage
411	Blockage	
412	Desilting	
413	Inspection of Sewers	
414	Repair and Maintenance of 'Street Furniture' (Sewerage)	
415	Sewerage Tankering	
430	Pumping (Foul & Combined)	
431	Pumping (Surface Water)	
460	'In House' Investigations and Attendance	
462	Rodent Control	
940	Rechargeable (Sewerage)	
950	Connection (Sewerage)	
510	Sewage Treatment	Sewerage - Sewage Treatment
591	Waste Water Function Activity - Query	
620	Sludge Treatment - Tankering Between Works	Sewerage - Sludge Treatment
621	Sludge Treatment	
630	Sludge Disposal to Agricultural Land Transportation	
631	Instrumental Control Activity M & E WasteWater	
632	Sludge Cake Transportation to Landfill	
633	Sludge Cake Disposal to Landfill	
635	Sludge Logger Maintenance (Contract)	
636	Incinerator Sludge Treatment	
637	Sludge Disposal Tankering from Strategic Collection Centres to Dewatering Centres	
638	Sludge Cake Disposal to Incinerator	
639	Incinerator Ash Disposal to Landfill	
640	Private Septic Tank Desludging	Customer Services
710	General	
711	Customer Services (Meter Read & Customer Queries)	
712	Disconnection / Reconnection	
714	Consumer Meters Repair And Maintenance	
790	Customer Services Function Activity	
730	Water Analysis	Scientific Services
731	Sewerage General	
732	Labs Water & Sewerage General	
733	Sampling	
734	Labs Sewage Sampling	
003	Rates DRC - Water	Rates
013	Rates DRC - Sewerage	
910	Rechargeable Work	Third Party Opex
000	Default	Overhead Pot 1 - General
021	GAE	
023	Invest to Save Revenue	
810	Vehicle & Plant Maintenance	
811	Vehicle & Plant Accident Repair	
812	Garage Overheads	
813	Roads Service	
820	Telemetry	
890	TMG Function Activity	
050	Ops & Maint General (Water)	Overhead Pot 2 - Water
055	Ops & Maint General (Sewerage)	Overhead Pot 2 - Sewerage
585	Health & Safety - WW	
590	Waste Water Function Activity	
735	Trade Effluent	
821	Radio & Monitoring Wastewater	
390	Networks Function Activity	Overhead Pot 3 - Networks Water & Sewerage

NORTHERN IRELAND WATER LIMITED - ANNUAL INFORMATION RETURN

ANNUAL INFORMATION RETURN - TABLE 23 REGULATORY ACCOUNTS
ANALYSIS OF TURNOVER AND OPERATING INCOME

	DESCRIPTION	UNITS	DP	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	CC	30	31	32	33	34	CC	35	36	37	38	39	CC	40	41	42	43	44	CC
				2015-16			2016-17			2017-18			2018-19			2019-20			2020-21			2021-22			2022-23			2023-24						2024-25						2025-26						2026-27					
				WATER SERVICES	SEWERAGE SERVICES	APPOINTED BUSINESS	WATER SERVICES	SEWERAGE SERVICES	APPOINTED BUSINESS	WATER SERVICES	SEWERAGE SERVICES	APPOINTED BUSINESS	WATER SERVICES	SEWERAGE SERVICES	APPOINTED BUSINESS	WATER SERVICES	SEWERAGE SERVICES	APPOINTED BUSINESS	WATER SERVICES	SEWERAGE SERVICES	APPOINTED BUSINESS	WATER SERVICES	SEWERAGE SERVICES	APPOINTED BUSINESS	WATER SERVICES	SEWERAGE SERVICES	APPOINTED BUSINESS	WATER SERVICES	SEWERAGE SERVICES	APPOINTED BUSINESS	SUBSIDY WATER INCLUDED	SUBSIDY SEWERAGE INCLUDED		WATER SERVICES	SEWERAGE SERVICES	APPOINTED BUSINESS	SUBSIDY WATER INCLUDED	SUBSIDY SEWERAGE INCLUDED		WATER SERVICES	SEWERAGE SERVICES	APPOINTED BUSINESS	SUBSIDY WATER INCLUDED	SUBSIDY SEWERAGE INCLUDED		WATER SERVICES	SEWERAGE SERVICES	APPOINTED BUSINESS	SUBSIDY WATER INCLUDED	SUBSIDY SEWERAGE INCLUDED	
A	**TURNOVER**																																															
1	Unmeasured - household	£m	3	125.377	139.933	264.000	123.829	141.172	265.000	124.853	145.747	270.600	126.735	151.465	278.200	129.997	159.630	287.900	128.984	162.838	291.500	130.334	165.666	296.000	142.309	179.042	321.400	165.501	205.595	371.100	165.501	205.595	A3																		
2	Unmeasured - non- household	£m	3	1.922	2.129	4.051	1.941	2.201	4.142	1.961	2.272	4.194	2.023	2.345	4.367	2.125	2.486	4.610	2.233	2.591	4.819	2.465	2.782	5.248	2.798	3.204	5.902	3.116	3.772	6.831	1.972	4.859	A3																		
3	Measured - household	£m	3	127.105	141.045	268.150	125.850	143.372	269.222	126.796	147.992	274.694	128.752	153.570	282.321	131.220	161.918	292.526	130.650	165.427	296.077	132.794	168.449	301.240	145.124	182.240	327.363	168.686	209.351	377.931	167.973	207.422	A3																		
4	Measured - household	£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	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	A3																		
5	Measured - non- household	£m	3	39.955	24.739	64.694	41.096	27.519	68.615	42.341	26.885	69.406	44.369	27.908	72.277	43.914	30.037	73.951	43.634	30.037	73.671	46.049	27.824	73.864	50.422	32.090	83.128	57.000	37.370	95.323	11.520	7.481	A3																		
6	Measured	£m	3	39.955	24.739	64.694	41.096	27.519	68.615	42.341	26.885	69.406	44.369	27.908	72.277	43.914	30.037	73.951	43.634	30.037	73.671	46.049	27.824	73.864	50.422	32.090	83.128	57.000	37.370	95.323	11.520	7.481	A3																		
7	Trade effluent	£m	3		4.657	4.657		4.278	4.278		4.777	4.777		5.230	5.230		4.977	4.977		4.633	4.633		5.262	5.262		5.707	5.707		7.115		0.000	0.000	A3																		
7a	Rivers Drainage Revenue	£m	3		20.035	20.035		20.563	20.563		21.947	21.947		21.861	21.861		22.585	22.585		22.832	22.832		23.245	23.245		24.245	24.245		26.150		0.000	0.000	A3																		
8	large user and special agreement	£m	3	4.980	0.284	5.264	4.980	0.290	5.270	5.511	0.811	6.322	6.024	0.229	6.253	5.870	0.230	6.100	5.653	0.882	6.535	6.464	0.921	7.385	6.649	0.830	7.479	7.345	0.626	13.971		0.000	A3																		
8a	Miscellaneous income (included in the price control)	£m	3																									0.000	0.000	0.000		0.000	A3																		
8b	Miscellaneous income (price control	£m	3																									0.000	0.000	0.000		0.000	A3																		
9	Revenue grants	£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	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	A3																		
10	Non-potable water large user and special agreements	£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	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	A3																		
11	Recharge/abstr works	£m	3	0.093	0.093	0.185	0.094	0.094	0.188	0.095	0.095	0.190	0.096	0.096	0.192	0.140	0.140	0.280	0.097	0.097	0.194	0.098	0.098	0.196	0.099	0.099	0.198	0.100	0.100	0.200	0.100	0.100	A3																		
12	Sub supplies/inter-company payments	£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	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	A3																		
13	Other appointed business (third party)	£m	3	6.198	0.255	6.453	6.368	0.343	6.711	6.408	0.356	6.764	6.446	0.919	7.365	6.196	10.766	16.962	6.336	8.513	14.849	6.943	11.742	18.685	7.818	12.358	20.176	7.486	11.685	19.171	0.000	0.000	A3																		
14	Third party services (excluding non-potable water)	£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	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	A3																		
15	Other sources (excluding large users, third parties and special agreements)	£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	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	A3																		
16	Total turnover	£m	3	172.303	194.985	367.288	172.377	200.474	372.851	175.260	209.839	385.099	185.646	224.616	409.862	187.310	239.092	422.515	183.073	229.453	412.526	192.260	241.874	434.134	210.026	263.971	473.997	241.510	301.256	542.824	178.593	215.108	A3																		
B	**OPERATING INCOME**																																															
17	Current cost profit or loss on sale of fixed assets	£m	3																																												
18	Exceptional items	£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	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000			A3																		
19	Other operating income	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.243	0.308	0.551	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			A3																		
20	Total operating income	£m	3	-0.083	0.174	0.091	0.525	-0.004	0.402	0.000	0.000	0.000	0.243	0.308	0.551	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			A3																		
C	**WORKING CAPITAL ADJUSTMENT**																																														
21	Working capital adjustment	£m	3																																												
D	**REVENUE CORRECTION MECHANISM**																																														
22	Net revenue movement out of the tariff basket	£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	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	A3																		

Table 23 – Analysis of turnover and operating income

Working Capital Adjustment

The commentary to Table 27 outlines the methodology for the Working Capital Adjustment.

Monthly Non-domestic Income Monitoring Process

The process for monitoring income is laid out in the flow diagram in Appendix A.

By 3.00pm on the third working day (Day 3) of each month, NI Water's billing partner, Echo Managed Services Ltd (Echo), e-mails to NI Water a spreadsheet which includes details of summary billed income, accrued income, cash, bad debt write-off and debtor information, as well as the general ledger postings for the month. In addition, the following reports are provided at that time:

- Bank reconciliation;
- Aged debt analysis;
- Listing of all refunds;
- Listing of all transactions;
- Accrued income details;
- Cash received listing;
- List of returned payments.

Billed income comes in the form of both invoices (first-time round billing, arising from a meter reading or an estimate) and system adjustments (adjustments made to a previously invoiced bill). The transaction listing, mentioned above, is reviewed by both Finance, Regulation and Commercial (FRC) and Billing & Revenue (B&R) to analyse the system adjustments made in the month and to understand better any budget/forecast variances in the month.

During Working Day 3 and Day 4, NI Water carries out the general ledger postings on to Oracle and then assesses and posts the following:

- The amount of income on "N-stop" i.e. invoices held back for a variety of reasons, to be recognised in the accounts;
- Any adjustments to the accrued income (see Appendix G); and
- The amount of provision to be made against the accrued income (based on those items of accrued income greater than c250 days old).

A draft income summary is prepared on the morning of Working Day 4, showing income to date across the five income categories (measured water, measured sewerage, unmeasured water, unmeasured sewerage and trade effluent) for both the month and the year to date, together with comparative figures for the budget and/or the latest forecast. An e-mail is then sent out showing the summary table and giving a short explanation of the income and debtors in the month; this e-mail provides the basis for explanation at the following day's (Day 5) Monthly Accounts meeting held with the Director of FRC.

An initial meeting between FRC and B&R is held on the afternoon of Working Day 4 to discuss the narrative in the e-mail and discuss further any budget/forecast variances in the month.

On Working Day 5, Echo finalises the Day 5 data, saving this on to an NI Water Public folder drive. This contains a number of detailed spreadsheets, such as VAT reports and suspense account (see Appendix B).

A short e-mail commentary on the total NI Water income for the month is prepared for the Board, once the Day 5 Accounts meeting has taken place. In addition, an email is sent out (on Day 6 or Day 7) confirming the final income, copying in the Director of FRC and the Director of C&OD.

Movements in Income against PC21

Following on from the monitoring process detailed above, the 2023/24 year-end position of income against PC21 submission was as follows:

Income	Actual Income 2023/24 £m	PC21 Income 2023/24 £m	Variance £m
Subsidy:			
Domestic phasing subsidy - water	165.5	165.0	0.5
Domestic phasing subsidy - sewerage	205.6	203.7	1.9
Non-domestic phasing subsidy - water	1.6	1.2	0.4
Non-domestic phasing subsidy - sewerage	1.8	1.4	0.4
Domestic allowance - water	11.5	12.6	-1.0
Domestic allowance - sewerage	7.7	8.2	-0.5
Septic tank subsidy	4.0		4.0
Total subsidy	397.7	391.9	5.8
Non-domestic income:			
Measured water	53.8	50.3	3.4
Measured sewerage	31.6	30.4	1.2
Unmeasured water	1.6	1.2	0.4
Unmeasured sewerage	1.8	0.6	1.3
Trade effluent	11.7	11.1	0.7
Total non domestic income	100.5	93.6	6.9
Road drainage income	29.1	29.2	(0.0)
Other regulated income	1.9	2.4	(0.5)
IFRIC18 income	12.0		12.0
Deferred credit amortisation	4.1		4.1
Electricity Generation	1.5		1.5
Other non-regulated income	2.6		2.6
TOTAL INCOME	**549.5**	**517.1**	**32.4**

The above table includes both appointed and un-appointed income.

Specific reasons for the £32.4m increase over PC21 are:

- The increase in domestic phasing subsidy represents an increased tariff.
- Septic tank subsidy is not included within the PC21 submission.
- With measured water:
  - There was an increased tariff used, compared to what was in the PC21 FD, a c£2.6 increase.
- Measured sewerage:
  - There was an increased tariff used, compared to what was in the PC21 FD, a c£1.6 increase.
- For unmeasured income, there was a large increase in income, reflecting both increased customers numbers (a lot as a result of the Metering and Billing project).
- For trade effluent, income was higher than expected as a result of higher levels of consumption at a number of sites for a main customer.
- Other income in the PC21 Final Determination submission only contains regulated income, and excludes income from the likes of vehicle maintenance, rental of aerial sites and sales of Renewable Obligation Certificates (ROCs), as well as IFRIC18 income and deferred credit amortisation.

Movements in Income against budget

Following on from the monitoring process detailed above, the 2023/24 year-end position of income against budget was as follows:

Income	Actual Income 2023/24 £m	Budget Income 2023/24 £m	Variance £m
Subsidy:			
Domestic phasing subsidy - water	165.5	165.5	(0.0)
Domestic phasing subsidy - sewerage	205.6	205.6	(0.0)
Non-domestic phasing subsidy - water	1.6	1.6	0.0
Non-domestic phasing subsidy - sewerage	1.8	1.8	0.0
Domestic allowance - water	11.5	12.5	(0.9)
Domestic allowance - sewerage	7.7	8.1	(0.4)
Septic tank subsidy	4.0	3.7	0.3
Total subsidy	397.7	398.7	(1.0)
Non-domestic income:			
Measured water	53.8	48.3	5.4
Measured sewerage	1.6	1.6	0.1
Unmeasured water	31.6	28.6	3.0
Unmeasured sewerage	1.8	1.8	0.0
Trade effluent	11.7	10.7	1.0
Total non domestic income	100.5	91.0	9.5
Road drainage income	29.1	29.2	(0.0)
Other	22.1	5.9	16.2
TOTAL INCOME	**549.5**	**524.8**	**24.7**

The above table includes both appointed and un-appointed income.

Specific reasons for the £24.7m increase against budget are:

- With measured water non-domestic income:
  - There was a lot of economic uncertainty when the 2023/24 income budget was agreed. With energy prices still high, interest and inflation rising which led to uncertainty over the levels of disposable income in households. As such, the budget was set at a conservative level.
  - Agricultural income accounts for about a third of measured water income, and consumption was around the expected level, although the 23/24 was one of

the wettest years in recent times particularly between August and December, the impact of this has not yet came through to billing.
    - Consumption in public sector businesses (e.g. hospitals, council owned leisure facilities, schools and colleges) was not as low as budgeted; hospitals were busy, students continued to attend schools and universities and leisure centres remained open.
    - Manufacturing remained at constant levels throughout the year, and did not appear to suffer any consumption reductions from the economic difficulties.
    - The budget assumed that hospitality would rise from 90% in Q1 to c95% in Q4; however, hospitality was mostly at or above “normal” levels, possibly due to “pent-up demand” and also helped by a strong Christmas.
- Measured sewerage:
    - MS ultimately has ended up around the budgeted level, the reason for this is that most agricultural customer do not use the sewerage network so any increases in agriculture for measured water will not apply to measured sewerage, and the monthly manufacturing customers of which there are many are generally trade effluent customers rather than measured sewerage.
    - MS was mostly impacted by the higher-than-expected consumption for public sector businesses and the hospitality sector.
- For unmeasured income, there was a large increase in income, reflecting both increased customers numbers (a lot because of the Metering and Billing project) and the economic difficulties for small businesses arising not being as bad as feared.
- For trade effluent income, there has been:
    - The increase over budget in trade effluent was largely driven by increased consumption and strengths at various [redacted] sites during the year, this was not expected and as a result has left trade effluent ahead of budget for the year.
- For other income, there has been:
    - IFRIC18 income (£12.0m) and deferred credit amortisation income (£4.1m), there were no budget figures available.
    - Sundry income was £6.0m for the 2023/24 year, against a budget of £5.9m, largely due to increases in various areas of Developer Services, especially wastewater impact assessments (£0.7m).

Movements in Income between 2023/24 and 2022/23

The table below details the income for the year ended 31 March, for both 2024 and 2023:

Income	Actual Income 2023/24 £m	Actual Income 2022/23 £m	Variance £m
Subsidy:			
Domestic phasing subsidy - water	165.5	142.4	23.1
Domestic phasing subsidy - sewerage	205.6	179.0	26.6
Non-domestic phasing subsidy - water	1.6	1.3	0.3
Non-domestic phasing subsidy - sewerage	1.8	1.6	0.2
Domestic allowance - water	11.5	10.7	0.8
Domestic allowance - sewerage	7.7	6.8	0.9
Septic tank subsidy	4.0	3.7	0.3
Total subsidy	397.7	345.5	52.2
Non-domestic income:			
Measured water	53.8	46.4	7.4
Measured sewerage	31.6	27.8	3.8
Unmeasured water	1.6	1.4	0.2
Unmeasured sewerage	1.8	1.7	0.1
Trade effluent	11.7	9.4	2.3
Total non domestic income	100.5	86.7	13.8
Road drainage income	29.1	25.2	3.9
Other	22.1	22.3	(0.2)
TOTAL INCOME	**549.5**	**479.7**	**69.8**

The above table includes both appointed and un-appointed income.

The income has increased by £69.8m, due to:

- An increase in the subsidy for domestic properties of £52.2m, which reflects the third year of the PC21 Final Determination.
- For measured water, there was a c14% tariff increase, equivalent to around £6.5m. Furthermore:
  - Agricultural income was up on the prior year however this was mostly driven by the tariff increase rather than any increase in consumption which remained largely consistent year on year.
  - Several businesses had increased consumption in 2023/24:

        - The hospitality increased by c£0.7m, with hotels and restaurants having increased consumption including [redacted] and [redacted].
        - Other services like schools, gyms and hospitals increased by c£1.3m, e.g. [redacted]
- For measured sewerage, there was a 14% tariff increase, equivalent to around £3.9m. Again, as in the analysis against budget, the big movements against the previous year were:
    - Similar to MW:
        - The hospitality increased by c£0.9m, with hotels and restaurants having increased consumption e.g. [redacted] and [redacted]
        - Other services like schools, gyms and hospitals increased by c£0.8m, e.g. [redacted]
- Unmeasured income was largely similar to 2022/23, with the difficult economic conditions not having a noticeable effect.
- For trade effluent income, there has been:
    - Tariff increase of roughly £0.7m.
    - The increase in trade effluent was largely driven by increased consumption and strengths at various [redacted] sites during the year, this was not expected and as a result has left trade effluent ahead of budget for the year.

Reconciliation of Billed Income to Income in the Accounts

The tables below detail, for both measured/unmeasured income and for trade effluent, how the income billed reconciles to the income reported at 31 March 2024:

Measured and unmeasured income	
	£m
Billed income	88.1
Movement in accrued income	2.8
2024/25 unmeasured billing deferred	-3.6
Movement in referred bills	0.3
Provisions released	1.3
Total income per accounts	88.9

Accrued income at 31 March 2024 represented 23% (2023: 20%) of annual billed income.

Trade effluent	
	£m
Billed income	11.6
Movement in accrued income	0.1
Total income per accounts	11.7

Accrued income at 31 March 2024 represented 12% (2023: 11%) of annual billed income.

The two tables above show the total income per accounts prior to the classification in the accounts of elements of total income to large user revenue.

Of the adjustments detailed above, the following adjustments may recur in future years:

- Movement in accrued income – there will always be a small variance over a period of a year.
- 2024/25 unmeasured billing deferred – the annual unmeasured billing will always be deferred, assuming that the invoicing is done in March, which was the case for the 2024/25 unmeasured bills which were issues in March 24.
- Movement in referred bills – there will always be a small variance over a period of a year.

Reconciliations and Controls carried out

A number of reconciliations are carried out on Echo's income information:

- The Day 3 income information received from Echo is reconciled back to what has been entered on Oracle (see Appendix C). This reconciliation is signed off monthly by both Management Accounts (MA) and Financial Accounts (FA) within FRC.
- The debtor account in the balance sheet is reconciled each month and signed off by MA and FA (see Appendix D).
- The accrued income account is reconciled monthly (see Appendix E).
- The number of meters to be billed is reconciled to what has actually been billed (see Appendix F).
- The billed income for monthly customers and for the relevant six-monthly customers is compared to what was accrued in the previous month, on a meter-by-meter basis.
- An income sheet, listing various checks on the Day 3 report, is adhered to (see Appendix I).
- As each customer is assigned a VAT SIC code. to understand better the impact that the lockdown caused by the COVID-19 pandemic was having on both income and cash collection, two new reports were introduced:
    - Year on Year cash analysis by VAT SIC Code (YTD and In-Month);
    - Year on Year In-Month average daily consumption (adc) by meter (which is then grouped by SIC Code).

In addition, Echo carry out controls on meter readings, such that a bill is "held" and not sent out to the customer if its value has exceeded a certain level, known as the "bill ceiling".

Review by Internal Audit

There were no internal audit reviews carried out in 2023/24 on income reporting.

Balance Sheet Nominal Ledger Accounts

The table below gives details of the relevant balance sheet accounts as at 31 March 2024, together with a comparison to the balances as at 31 March 2023:

	Balance 2023/24 £m	Balance 2022/23 £m	Variance £m
Debtors	13.1	7.8	5.3
Bad debt provision	(3.6)	(3.1)	(0.5)

Within the £5.3m rise in debtors there was:

- The annual unmeasured billing run, which was undertaken in March, this amounted to £3.6m, the rest of the increase in debtors will be related to the higher tariffs that are in place in 23/24 compared to the prior year.

There was a £0.5m increase in the bad debts provision, again this was due to the inclusion of the unmeasured billing for 24/25 in the debt figure used to calculate the bad debt provision, and also after a review of the aged debt risk profile for customers.

Accrued Income

There are two reports which Echo uses for accrued income, both in the form of Excel spreadsheets included within the Day 3 data: the E040 Accrual Detail report (formerly called the Dynamic Consumption Report (DCR)), and a separate report for Trade Effluent, which is an excel spreadsheet model.

Measured customers are billed either every month (mainly larger customers) or every six months, in arrears, and income needs to be accrued for them for a period of up to six months. Therefore, there are seven "bill frequency" periods:

- Monthly
- Jan/Jul six monthly
- Feb/Aug six monthly
- Mar/Sep six monthly
- Apr/Oct six monthly
- May/Nov six monthly
- Jun/Dec six monthly

The E040 report takes information directly from the RAPID system and is based on the latest reading date (as opposed to billing date) and the average consumption of previous bills. If estimated readings have been made, these are used in the calculation. If there is not the necessary information available, the report will use the industry average consumption (for the industry sector which the customer has been assigned to). Any system adjustments made to the original bill meter reading will automatically over-ride the original bill, and it will be system adjustment readings that are used for the calculation of the accrual.

Accruals for trade effluent income are based on an excel spreadsheet model built by Echo. This takes billing data from 1 April of the previous year i.e. close to 2 years of data when March accrual is being calculated, and a year is shut down at the start of April each year. The model contains a price tariff percentage to either increase or decrease the accrual, depending on the percentage uplift/reduction in prices from the previous year. The model designates customers as monthly or six-monthly but does not break six-monthly down into the relevant month in which the six monthly bills are issued.

Echo performs a high-level reconciliation each month, looking for any major differences in the month from the previous month.

Each month, the E040 report is reviewed by B&R for any unusual items, and an adjustment made for those (see March 2023 adjustments in Appendix G).

The accrued income in the last two years has been:

	Accrued Income 2023/24 £m	Accrued Income 2022/23 £m	Variance £m
Accrued income:			
Measured water and sewerage	15.4	11.6	3.8
Trade effluent	1.1	1.0	0.1
TOTAL ACCRUED INCOME	**16.5**	**12.6**	**3.9**

The rise of £3.9m against the previous year can be explained as follows:

- There was a £3.8m increase primarily due to increases in MW, MS and TE which are driven by the tariff increase between 22/23 and 23/24 c14% increase.

Subsidy Income

In 2023/24, NI Water had total subsidy income of £397.7m. This was broken down as follows:

- £371.1m for domestic phasing subsidy for water and sewerage, in lieu of domestic charges.
- £3.4m for non-domestic phasing subsidy, representing 50% of unmeasured non-domestic income.
- £19.2m for domestic allowance subsidy, representing the domestic allowance claimed by customers for both water and sewerage (restricted to 200m^3 of water per year, for each building on which the customer pays business rates).
- £4.0m for septic tank subsidy. NI Water receives subsidy income for all septic tanks that it empties, except for those customers who receive a charge if they have more than one empty in a 12-month period.

Road Drainage Income

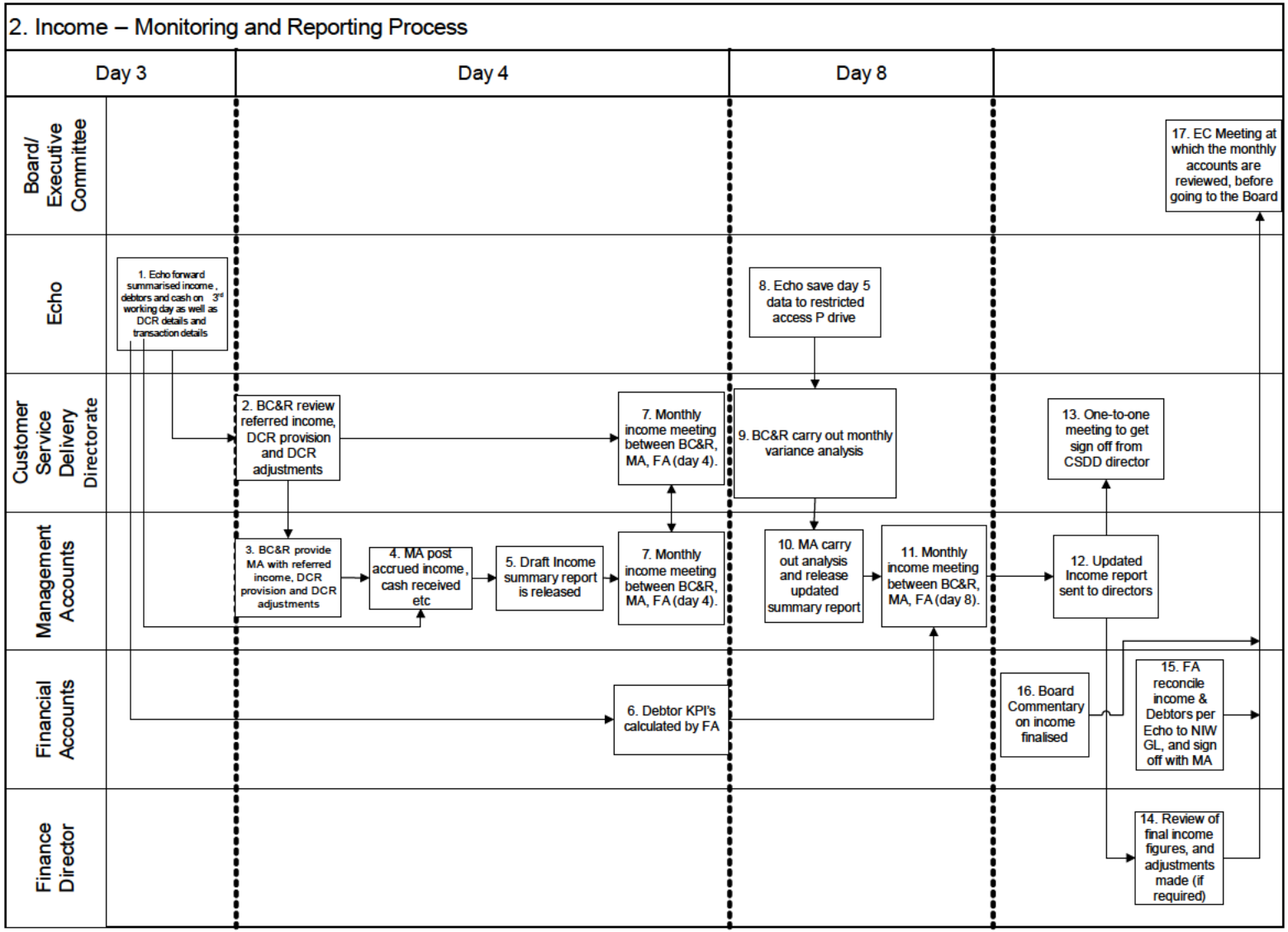
The road drainage charge for 2023/24 was based on the projections of NI Water's costs of operation (see the table below). The basis for the calculation has been approved by both the Regulator and by the Department for Infrastructure (DfI). A total of £29.1m was invoiced in 2022/23 to DfI, compared to £25.2m in 2022/23. A more detailed breakdown of the assumptions behind the calculation is provided in Appendix H.

	Combined	Storm Water	Total
Split of sewers for run off from roads and footpaths	50.35%	49.65%	100%
Total volume of Water (cubic metres)	32,325,198	31,874,802	64,200,000
Mogden Formula element	R+V	R	
Cost of Element: 21/22 tariff:	£0.6162 / m^3	£0.2896 / m^3	
Cost of Run off	£19,918,787	£9,230,943	£29,149,730

Non-tariff Basket Income

There is no net income movement out of the tariff basket for either water or sewerage.

Appendix A - Monthly Process for Monitoring Income



Appendix B – Day 3 & Day 5 Data received from Echo

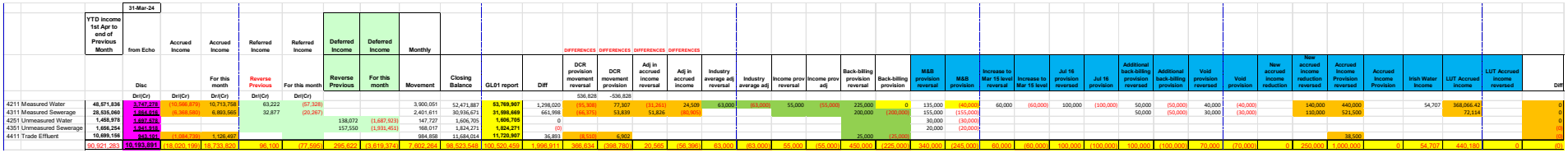
Along with the actual summary Day 3 report, Echo also send:

- Bank reconciliation as at the end of the month;
- Aged debt reports as at the end of the month, by SIC code, industry code, etc.;
- An accrued income report, by meter reference, as at the end of the month.
- List of all income-related transactions in the month;
- List of refunds for the month;
- List of returned payments for the month;
- List of all cash payments, aged, for the month; and
- List of accounts on “n-stop”, as at the end of the month.

On Day 5, Echo send:

- VAT reports for the month;
- Consumption reports; and
- List of cash received transactions in the suspense account, as at the end of the month.

Appendix C – Reconciliation of Echo Day 3 Information at 31 March 2024



		31-Mar-24											DIFFERENCES	DIFFERENCES	DIFFERENCES	DIFFERENCES																								
		YTD income 1st Apr to end of Previous Month	from Echo	Accrued Income	Accrued Income	Referred Income	Referred Income	Deferred Income	Deferred Income	Monthly				DCR provision movement reversal	DCR movement provision	Adj in accrued income reversal	Adj in accrued income	Industry average adj reversal	Industry average adj	Income prov reversal	Income prov adj	Back-billing provision reversal	Back-billing provision	M&B provision reversal	M&B provision	Increase to Mar 15 level reversal	Increase to Mar 15 level	Jul 16 provision reversed	Jul 16 provision	Additional back-billing provision reversed	Additional back-billing provision	Void provision reversed	Void provision	New accrued income reduction	New accrued income reduction reversed	Accrued Income Provision reversed	Accrued Income Provision	Irish Water Income	LUT Accrued Income	LUT Accrued Income reversed	
			Disc		For this month	Reverse Previous	For this month	Reverse Previous	For this month	Movement	Closing Balance	GL01 report	Diff																												Diff
			Dr/(Cr)	Dr/(Cr)	Dr/(Cr)	Dr/(Cr)	Dr/(Cr)							536,828	-536,828																								
4211	Measured Water	48,571,836	3,747,279	(10,586,879)	10,713,758	63,222	(57,328)			3,900,051	52,471,887	53,769,907	1,298,020	(95,908)	77,307	(31,261)	24,509	63,000	(63,000)	55,000	(55,000)	225,000	0	135,000	(40,000)	60,000	(60,000)	100,000	(100,000)	50,000	(50,000)	40,000	(40,000)		140,000	440,000		54,707	368,006.42		0
4311	Measured Sewerage	28,535,060	4,864,415	(6,368,580)	6,893,565	32,877	(20,267)			2,401,611	30,936,671	31,598,669	661,998	(66,975)	53,839	51,826	(80,903)					200,000	(200,000)	155,000	(155,000)							30,000	(30,000)		130,000	521,500			72,114		0
4251	Unmeasured Water	1,468,978	1,497,578					138,072	(1,687,923)	147,727	1,606,705	1,606,705	0											30,000	(30,000)																0
4351	Unmeasured Sewerage	1,656,254	1,241,915					157,550	(1,931,451)	168,017	1,824,271	1,824,271	(0)											20,000	(20,000)																(0)
4411	Trade Effluent	10,699,156	943,497	(1,084,739)	1,126,497					984,858	11,684,014	11,720,907	36,893	(8,510)	6,902							25,000	(25,000)																		(0)
		90,921,283	10,193,891	(18,039,199)	18,733,820	96,100	(77,595)	295,622	(3,619,374)	7,602,264	98,523,548	100,520,459	1,996,911	366,634	(398,780)	20,565	(56,394)	63,000	(63,000)	55,000	(55,000)	450,000	(225,000)	340,000	(245,000)	60,000	(60,000)	100,000	(100,000)	100,000	(100,000)	70,000	(70,000)	0	250,000	1,000,000	0	54,707	440,180	0	(0)

Appendix D – Reconciliation of Debtors account on Oracle

NORTHERN IRELAND WATER LIMITED AS AT 31 MARCH 2024	
Summary of Debtors	
Water & Sewerage Debtors GL code 1210	**Mar-24**
Opening Balance	**£10,985,030.03**
Take on Bills/New Bills- TOTAL	**£8,864,272.78**
Take on Bills/New Bills- Sewerage	1,883,982.80
Take on Bills/New Bills- Water	3,166,751.59
Take on Bills/New Bills- VAT	144,762.15
Annual Billing	3,619,373.82
Annual Billing - VAT	49,402.42
Discounts	0.00
System Adjustments- Total	**£749,459.02**
System Adjustments- Sewerage	57,545.25
System Adjustments- Water	640,863.58
System Adjustments- VAT	51,050.19
Manual Adjustments- Total	**-£118,032.93**
Manual Adjustments- Sewerage	(64,104.60)
Manual Adjustments- Water	(53,593.35)
Manual Adjustments- VAT	(334.98)
Write Off Adjustments Total	**-£28.88**
Write Off Adjustments- Sewerage	**0.00**
Write Off Adjustments- Water	**(28.88)**
Write Off Adjustments- VAT	**0.00**
NIWS Bad Debt Authorised Write Off- Total	**-£63,029.47**
NIWS Au horised Write Off- Sewerage	(23,340.19)
NIWS Authorised Write Off- Water	(38,915.83)
NIWS Authorised Write Off- VAT	(773.45)
Net Cash	**(7,504,758.65)**
Refunds	60,910.96
Water & Sewerage GL code 1210 Closing Bala	**£12,973,822.86**
Check	
Metered & Unmetered Water & Sewerage Deb	**£12,973,822.86**
(As per Echo)	
Per Tb GL code 1210	**11,365,923.34**
Variance	**£1,607,899.52**
Due to:	
Referred Bills **NOT** Recognised NET	(77,604.02)
Write-off of mixed supply debt > 3 years	(300,000.00)
System Adjustment Reduction	(1,230,000.00)
Unknown	-£295.50
Trade Effluent Debtors GL code 1213	
Opening Balance	**£1,738,242.32**
Take on Bills/New Bills	943,667.06
Referred Bills	
Annual Billing	
System Adjustments	**-£469.73**
Manual Adjustments	**-£96.69**
Write Off Adjustments	
NIWS Authorised Bad Debt Write Off	**-£159.33**
Net Cash	**-£1,037,780.39**
Refunds	**£0.00**
Trade Effluent GL code 1213 Closing Balance	**£1,643,403.24**
Variance	**-£14.05**
Per Trial Balance general ledger code 1213	**£1,643,417.29**
Due to:	
Trade Effluent	
Referred Bills	
Total Opening Balance GL code 1213 & 1210	**£12,723,272.35**
Take on Bills/New Bills	**£6,188,566.02**
Annual Billing	**£3,619,373.82**
Discounts	**£0.00**
System Adjustments	**£748,989.29**
Manual Adjustments	**-£118,129.62**
Write Off Adjustments	**-£28.88**
NIWS Authorised Bad Debt Write Off	**-£63,188.80**
Net Cash	**-£8,542,539.04**
Refunds	**£60,910.96**
Total Closing Balance GL code 1213 & 1210	**£14,617,226.10**
Balance as per FN012 Summary	**£14,616,779.00**
Difference	**£447.10**
Echo Debtor Ledger	£15,079,982.23
Balance as per FN012 Summary	**£14,616,779.00**
Suspense Ac FN012 Summary	**£94,189.05**
Difference	**£369,014.18**

E – Reconciliation of Accrued Income Account

NI Water Accrued Income	
	Mar-24
Per Echo	
Measured Water	10,714
MW Accrued Income Adj	
Measured Sewerage	6,894
Trade Effluent	1,126
LUT Accrued income	440
Accrued income	**19,174**
Accrued income adjustments	
DCR Provision	-399
DCR Further	-500
Accrued Income provision	-56
Increase in provision	-60
Industry average adj	-63
Income prov adj	-55
Future System Adjustments	-620
BackBilled Income Provision	-700
M&B Provision	-170
Void back-billing	-70
[redacted]	0
New accrued income reduction	0
MS leakage allownace accrual	0
Accrued income posted	16,480
Per TB (1420/1423)	16,480
Difference	0
Miscellanous accrued Income	289
Interest Received Accrual	2
Total Accrued Income	**16,772**
TB Check	
1420 - Metered Water Accrued Income	15,352,668.79
1423 - Trade Effluent Accrued Income	1,127,682.32
1426 - Miscellaneous Accrued Income	289,104.64
1451 - Interest Received Accrual	2,276.22
	16,771,731.97

Appendix F – Reconciliation of Meters

2023/24 - Meter Reconciliation Analysis

Meters to be read	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
Estimated	105	130	68	117	122	95	95	110	106	179	136	250
No Read	651	758	438	424	495	586	647	617	447	440	518	602
Read	13,360	12,621	11,023	11,702	12,778	12,420	13,411	12,661	11,012	11,698	12,816	12,291
Total Meters	14,116	13,509	11,529	12,243	13,395	13,101	14,153	13,388	11,565	12,317	13,470	13,143
No Reads to be investigated - Code Red	27	7	3	1	4	6	12	10	5	5	9	6

Meters to be billed	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
Billable Meters	13,475	12,719	11,081	11,779	12,875	12,497	13,500	12,749	11,109	11,843	12,931	12,525
Non-Billable Meters	641	790	448	464	520	604	653	639	456	474	539	618
Total Meters	14,116	13,509	11,529	12,243	13,395	13,101	14,153	13,388	11,565	12,317	13,470	13,143
Total Meters Billed	13,296	11,999	10,857	11,516	12,685	12,304	13,303	12,574	10,795	11,597	12,701	12,343
Meters to be investigated	170	135	119	152	170	127	173	167	130	192	204	142
Billable Meters	13,466	12,134	10,976	11,668	12,855	12,431	13,476	12,741	10,925	11,789	12,905	12,485
Meters to be investigated - Code Red	39	8	11	5	7	9	18	18	9	15	14	14

Appendix G – Accrued Income Adjustments at 31 March 2023

Customer / Company Name	Industry Code	SIC Code	Pipe Size	Read Frequency	Accrual Days	Read History	Water volume	Water volume per day	Sewerage Volume	Sewerage volume per day	Water Standing Charges	Water Volume Charges	Total Water Charges	Sewerage Standing Charges	Sewerage Volume Charges	Total Sewerage Charges	Total accrual standing charges	Total accrual volume charges	Total Accrual
Customer / Company Name	Industry Code	SIC Code	Pipe Size	Read Frequency	Accrual Da	Read Hist	Water volu	Water volur	Sewerage	Sewerage	Water Star	Water Volur	Total Water Ch	Sewerage S	Sewerage \	Total Sewerage	Total accn	Total accrual	Total Accrual
[redacted]	Hospitals	100mm/4.0in	9	Six Monthly Feb/Aug	41	READING	6,169	150	5,861	150	£164	£8,089	£8,253	£198	£13,099	£13,297	£362	£21,189	£21,551
	Hospitals	100mm/4.0in	9	Six Monthly Feb/Aug	41	READING	2,050	50	1,948	50	£164	£2,688	£2,852.07	£198	£4,353	£4,550.87	£362	£7,041	£7,403
												Variance	(£5,401)		Variance	(£8,747)		Variance	(£14,148)
Customer / Company Name	Industry Code	SIC Code	Pipe Size	Read Frequency	Accrual Da	Read Hist	Water volu	Water volur	Sewerage	Sewerage	Water Star	Water Volur	Total Water Ch	Sewerage S	Sewerage \	Total Sewerage	Total accn	Total accrual	Total Accrual
[redacted]	Food Manuf/Process	20mm/.75in	6	Six Monthly Apr/Oct	172	IND AVE	5,779	34	5,490	34	£39	£7,605	£7,644	£48	£12,314	£12,362	£87	£19,919	£20,006
	Food Manuf/Process	20mm/.75in	6	Six Monthly Apr/Oct	172	IND AVE	172	1	163	1	£39	£226	£265.11	£48	£366	£414.71	£87	£593	£680
												Variance	(£7,379)		Variance	(£11,947)		Variance	(£19,326)
Customer / Company Name	Industry Code	SIC Code	Pipe Size	Read Frequency	Accrual Da	Read Hist	Water volu	Water volur	Sewerage	Sewerage	Water Star	Water Volur	Total Water Ch	Sewerage S	Sewerage \	Total Sewerage	Total accn	Total accrual	Total Accrual
[redacted]	School Education	75mm/3.0in	9	Six Monthly May/Nov	150	READING	4,436	30	4,214	30	£331	£5,730	£6,061	£400	£9,277	£9,677	£731	£15,007	£15,738
	School Education	75mm/3.0in	9	Six Monthly May/Nov	150	READING	1,500	10	1,425	10	£331	£1,938	£2,268.25	£400	£3,137	£3,537.52	£731	£5,075	£5,806
												Variance	(£3,792)		Variance	(£6,140)		Variance	(£9,932)
Customer / Company Name	Industry Code	SIC Code	Pipe Size	Read Frequency	Accrual Da	Read Hist	Water volu	Water volur	Sewerage	Sewerage	Water Star	Water Volur	Total Water Ch	Sewerage S	Sewerage \	Total Sewerage	Total accn	Total accrual	Total Accrual
[redacted]	Food Manuf/Process	100mm/4.0in	4	Six Monthly Jun/Dec	103	IND AVE	3,460	34	3,287	34	£412	£4,480	£4,891	£498	£7,254	£7,752	£910	£11,734	£12,643
	Food Manuf/Process	100mm/4.0in	4	Six Monthly Jun/Dec	103	IND AVE	206	2	196	2	£412	£267	£678.43	£498	£432	£929.99	£910	£699	£1,608
												Variance	(£4,213)		Variance	(£6,822)		Variance	(£11,035)
Customer / Company Name	Industry Code	SIC Code	Pipe Size	Read Frequency	Accrual Da	Read Hist	Water volu	Water volur	Sewerage	Sewerage	Water Star	Water Volur	Total Water Ch	Sewerage S	Sewerage \	Total Sewerage	Total accn	Total accrual	Total Accrual
[redacted]	Other Retails Shops	20mm/.75in	9	Six Monthly Jun/Dec	119	READING	3,927	33	0	33	£27	£3,378	£3,405	£33	£5,475	£5,508	£60	£8,853	£8,913
	Other Retails Shops	20mm/.75in	9	Six Monthly Jun/Dec	119	READING	0	0	0	0	£27	£0	£26.66	£33	£0	£33.16	£60	£0	£60
												Variance	(£3,378)		Variance	(£5,475)		Variance	(£8,853)
Customer / Company Name	Industry Code	SIC Code	Pipe Size	Read Frequency	Accrual Da	Read Hist	Water volu	Water volur	Sewerage	Sewerage	Water Star	Water Volur	Total Water Ch	Sewerage S	Sewerage \	Total Sewerage	Total accn	Total accrual	Total Accrual
[redacted]	Bakeries/Catering	100mm/4.0in	4	Six Monthly Apr/Oct	167	IND AVE	423	3	423	3	£668	£437	£1,104	£808	£5,982	£6,790	£1,475	£6,419	£7,894
	Bakeries/Catering	100mm/4.0in	4	Six Monthly Apr/Oct	167	IND AVE	10,020	60	9,519	60	£668	£10,349	£11,017.04	£808	£134,618	£135,425.63	£1,475	£144,968	£146,443
												Variance	£9,913		Variance	£128,636		Variance	£138,549
Customer / Company Name	Industry Code	SIC Code	Pipe Size	Read Frequency	Accrual Da	Read Hist	Water volu	Water volur	Sewerage	Sewerage	Water Star	Water Volur	Total Water Ch	Sewerage S	Sewerage \	Total Sewerage	Total accn	Total accrual	Total Accrual
[redacted]	Chemical Industry	15mm/.50in	x	Six Monthly Apr/Oct	159	IND AVE	2,352	15	2,234	15	£36	£2,981	£3,016	£44	£4,825	£4,869	£80	£7,805	£7,885
	Chemical Industry	15mm/.50in	x	Six Monthly Apr/Oct	159	IND AVE	159	1	151	1	£36	£202	£237.12	£44	£326	£370.53	£80	£528	£608
												Variance	(£2,779)		Variance	(£4,498)		Variance	(£7,278)
Customer / Company Name	Industry Code	SIC Code	Pipe Size	Read Frequency	Accrual Da	Read Hist	Water volu	Water volur	Sewerage	Sewerage	Water Star	Water Volur	Total Water Ch	Sewerage S	Sewerage \	Total Sewerage	Total accn	Total accrual	Total Accrual
[redacted]	Food Manuf/Process	20mm/.75in	0	Six Monthly Apr/Oct	174	IND AVE	5,846	34	0	34	£39	£7,693	£7,732	£0	£0	£0	£39	£7,693	£7,732
	Food Manuf/Process	20mm/.75in	0	Six Monthly Apr/Oct	174	IND AVE	2,088	12	0	12	£39	£2,748	£2,786.79	£0	£0	£0.00	£39	£2,748	£2,787
												Variance	(£4,946)		Variance	£0		Variance	(£4,946)
Customer / Company Name	Industry Code	SIC Code	Pipe Size	Read Frequency	Accrual Da	Read Hist	Water volu	Water volur	Sewerage	Sewerage	Water Star	Water Volur	Total Water Ch	Sewerage S	Sewerage \	Total Sewerage	Total accn	Total accrual	Total Accrual
[redacted]	General Manufacture	20mm/.75in	6	Six Monthly Apr/Oct	166	IND AVE	1,459	9	1,386	9	£37	£1,920	£1,957	£46	£3,109	£3,155	£83	£5,029	£5,112
	General Manufacture	20mm/.75in	6	Six Monthly Apr/Oct	166	IND AVE	166	1	158	1	£37	£218	£255.65	£46	£354	£399.98	£83	£572	£656
												Variance	(£1,702)		Variance	(£2,755)		Variance	(£4,457)
Customer / Company Name	Industry Code	SIC Code	Pipe Size	Read Frequency	Accrual Da	Read Hist	Water volu	Water volur	Sewerage	Sewerage	Water Star	Water Volur	Total Water Ch	Sewerage S	Sewerage \	Total Sewerage	Total accn	Total accrual	Total Accrual
[redacted]	Caravan/Camping Site	25mm/1.0in	9	Six Monthly May/Nov	146	IND AVE	844	6	802	6	£55	£1,005	£1,061	£68	£1,628	£1,697	£124	£2,634	£2,758
	Caravan/Camping Site	25mm/1.0in	9	Six Monthly May/Nov	146	IND AVE	146	1	139	1	£55	£174	£229.37	£68	£282	£349.83	£124	£456	£579
												Variance	(£831)		Variance	(£1,347)		Variance	(£2,178)
											Customer specific Accrual Adjs		(£24,509)			£80,905			£56,396

Appendix H – Calculation of Road Drainage Charges

The calculation of Road Drainage charges was prepared on the following basis:

i The total urban road and footway surface area was obtained (Source Roads Service),
   a. Urban road surface area = 39.3million m^2
   b. Urban footway surface area = 17.0million m^2
   c. Total Urban road & footway surface area = 56.3million m^2

ii The average annual rainfall in Northern Ireland over the last 10 years was obtained (Source: Met Office).
   Average annual rainfall = 1.14m

iii The average volume of rain and therefore the run-off from roads and footpaths discharged into NIW sewers and storm drains was calculated as follows:
   56.3million m^2 x 1.14m = 64.2million m^3

NIW's network information management system (NIMS) indicated that for the largest 105 urban areas in N Ireland the length of combined sewers and the length of storm water sewers was split as detailed in the following table. These figures were adjusted to allow for those storm water sewers which rather than discharging into a watercourse were connected into the combined system.

	Km	% of total
Combined sewers	4,378	50.35%
Storm water sewers	4,317	49.65%
Total	8,695	100.00%

The unit costs of R & V applied were obtained using the Trade Effluent Mogden Formula as per the table below:

Mogden Formula element	22/23 tariff (£) Per m^3	23/24 tariff (£) Per m^3	Application
R (Reception)	0.2508	0.2896	Run off into Storm water sewers
V (Volumetric)	0.2828	0.3266	Run off into Combined sewers
R+V	0.5336	0.6162	

Appendix I – Monthly Income Check Sheet

NI WATER
Income check for March 2024

		ACTION BY	COMPLETE BY
1.	Transaction report for income, bad debt and discount ties up to the GL posting.	MF	06/04/24
2.	DCR listing and TE accrual totals agree to the Table in the Day 3 report.	MF	06/04/24
3.	The number of days in the DCR detailed listing has been increased by the correct number of days in the month.	MF	06/04/24
4.	There are no obvious large incorrect items of accrued income in the DCR listing.	MF	06/04/24
5.	Review the DCR, for where there is volume in m^3, but no £.	MF /DH	06/04/24
6.	Review the DCR, both MW and MS, for any negative items.	MF	06/04/24
7.	Review top 300 customers on DCR for any material over-statement arising from leakage/incorrect meter exchange/faulty meter, etc.	DH	06/04/24
8.	Total for “Ordinary Customers N-stops” agrees total per “Referred Bills Summary” agrees to total per “N-stop Detail”.	DH	06/04/24
9.	N-stop detail does not contain any duplicate or triplicate lines.	DH	06/04/24
10.	Debit balance and credit balances in the Day 3 report agree to the debt report.	MF	06/04/24
11.	Cash in the FN012 summary agrees to the cash report.	MF	06/04/24
12.	The FN012 Summary Total has the correct balance c/f and b/f.	MF	06/04/24
13.	Have all the correct adjustments been made for additional provisions/provision release?	MF	07/04/24
14.	Does the summary Excel income report agree to Oracle?	MF	07/04/24

NORTHERN IRELAND WATER LIMITED ANNUAL INFORMATION RETURN

ANNUAL INFORMATION RETURN TABLE 25 REGULATORY ACCOUNTS (HISTORIC COST ACCOUNTING)
ANALYSIS OF FIXED ASSETS BY ASSET TYPE (TOTAL)

				1	2	3	4	5	6	7	8	9
				WATER SERVICE				SEWERAGE SERVICE				
	DESCRIPTION	UNITS	DP	INFRASTRUCTURE ASSETS	OPERATIONAL ASSETS	OTHER TANGIBLE ASSETS	SUBTOTAL	INFRASTRUCTURE ASSETS	OPERATIONAL ASSETS	OTHER TANGIBLE ASSETS	SUBTOTAL	TOTAL
A	GROSS REPLACEMENT COST											
1	Gross replacement cost at 1 April	£m	3	1,054.692	691.777	110.454	1,856.923	1,420.310	1,463.678	146.271	3,030.260	4,887.182
2	AMP adjustment	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3	RPI adjustment	£m	3									
4	Disposals	£m	3	-0.402	-0.015	-0.298	-0.715	-0.457	0.000	-0.535	-0.992	-1.707
5	Additions	£m	3	48.144	94.176	15.782	158.102	83.976	137.977	21.853	243.806	401.908
6	Gross replacement cost at 31 March	£m	3	1,102.434	785.938	125.938	2,014.310	1,503.829	1,601.655	167.589	3,273.074	5,287.384
B	DEPRECIATION											
7	Depreciation at 1 April	£m	3	130.144	209.991	65.625	405.760	102.611	471.189	65.668	639.468	1,045.228
8	AMP adjustment	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
9	AMP adjustment - gross MEA revaluation	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10	lives	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11	RPI adjustment	£m	3									
12	Disposals	£m	3	-0.402	-0.014	-0.298	-0.714	-0.457	0.000	-0.518	-0.975	-1.689
13	Charge for year	£m	3	11.736	24.595	7.306	43.637	10.170	48.445	7.173	65.788	109.425
14	Depreciation at 31 March	£m	3	141.478	234.572	72.633	448.683	112.324	519.634	72.323	704.281	1,152.964
15	Net book amount at 31 March	£m	3	960.956	551.366	53.305	1 565.627	1 391.505	1 082.022	95.266	2 568.793	4 134.420
16	Net book amount at 1 April	£m	3	924.548	481.785	44.829	1,451.162	1,317.699	992.490	80.603	2,390.792	3,841.954

Table 25 – Analysis of Fixed Assets by Asset Type (Total)

The following asset categories have been analysed in the table as follows:

- 'Infrastructure assets' include infrastructure assets only.
- Operational assets' include land, buildings and civils.
- 'Other tangible assets' include surplus land, buildings and civils, mobile plant and IT.

Gross Book Value at 1 April and Depreciation at 1 April

The total opening balances for gross book value and depreciation at 1 April 2023 have been brought forward from the total closing balances for gross book value and depreciation at 31 March 2023. The analysis across asset categories is based on analysis within the fixed asset register and is based on the IFRS statutory accounts.

AMP Adjustment

There was no AMP adjustment during the year.

Impairment

There was no impairment required of surplus lands, buildings and civils during the year.

Disposals

Disposals during the year consisted of surplus land, infrastructure, mobile plants (vans) & fixed assets. All disposals have depreciation in the month of disposal.

Additions

Additions consisted of capital expenditure incurred during the year plus adopted sewers and sewage pumping stations and PPP assets (see below). When the assets created by the capital expenditure are commissioned they are put onto the fixed asset register and depreciation commences the following month.

This following table is a reconciliation between total capital expenditure and additions to fixed assets: -

Total UK GAAP expenditure in CWP (incl. Operations)	**343,399**
Less: expenditure classified as opex under IFRS	-1,596
Add: Capital maintenance Omega	2,466
Add: Capital maintenance Kinnegar	1,170
Less: leases correction	0
Total IFRS expenditure in CWP (incl. Operations)	**345,439**
Add: Water and sewer connections	4,217
Add: adopted assets - infrastructure	39,018
Add: adopted assets - non-infrastructure	907
Add: capitalised interest	12,326
Add: leases addition	0
Total additions per statutory accounts	**401,907**
PPE note - additions	344,444
PPE note - customor contributions	39,925
Intangibles note - additions	17,538
Total additions per statutory notes	**401,907**

PPP Assets Additions
During the year, there were on-balance sheet additions to PPP assets. Therefore, there was an element in the table relating to PPP assets totalling to [redacted] relating to the Alpha capital maintenance fund, [redacted] relating to Omega and [redacted] to Kinnegar.

Depreciation Charge for Year
Historical cost depreciation charge during the year was calculated based on the opening GBV at 1 April 2023. Additions and disposals during the year were taken into account in calculating the depreciation charge.

Commentary
All assets were analysed to each of their respective asset categories and service activities to identify the water and sewerage services. The management and general service activity assets, with a GBV of £25,481,546.92 (22/23 IFRS: £25,583,526.23) as at 31 March 2023/24, could not be readily identified as water and sewerage services and have been split as per IFM: Water 41% and Sewerage 59%.

Table 25 has also been adjusted to include only the appointed business and exclude the un-appointed business relating to vehicle maintenance carried out for third parties. This has been adjusted through the opening balances for Water Services – Other Assets.

NORTHERN IRELAND WATER LIMITED - ANNUAL INFORMATION RETURN

ANNUAL INFORMATION RETURN - TABLE 28 REGULATORY ACCOUNTS
CASH FLOW STATEMENT FOR YEAR ENDING 31 MARCH (TOTAL)

	DESCRIPTION	UNITS	DP	1 2015-16	2 2016-17	3 2017-18	4 2018-19	5 2019-20	6 2020-21	7 2021-22	8 2022-23	9 2023-24	10 2024-25	11 2025-26	12 2026-27
1	Net cashflow from operating activities	£m	3	170.228	182.677	182.769	221.058	229.446	197.146	182.859	206.427	274.135			
A	**RETURN ON INVESTMENTS & SERVICING OF FINANCE**														
2	Interest received	£m	3	0.092	0.074	0.103	0.429	0.455	1.525	1.356	1.995	5.162			
3	Interest paid	£m	3	-46.568	-46.945	-47.537	-49.199	-45.293	-45.113	-46.119	-46.003	-50.828			
4	Interest in finance lease rentals	£m	3	-6.701	-6.562	-6.406	-18.826	-18.261	-17.521	-16.692	-15.842	-14.800			
5	Non-equity dividends paid	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000			
6	Net cashflow from returns on investments & servicing of finance	£m	3	-53.177	-53.433	-53.840	-67.596	-63.099	-61.109	-61.455	-59.850	-60.466			
B	**TAXATION**														
7	Taxation (paid)/received	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000			
C	**CAPITAL EXPENDITURE AND FINANCIAL INVESTMENT**														
8	Gross cost of purchase of fixed assets	£m	3	-115.602	-128.215	-158.278	-183.297	-184.328	-171.998	-216.274	-286.687	-368.025			
9	Receipts of grants and contributions	£m	3	7.980	11.550	12.910	1.384	4.772	11.076	2.257	0.375	0.845			
10	Infrastructure renewals expenditure	£m	3	-20.144	-20.145	-30.250	0.000	0.000	0.000	0.000	0.000	0.000			
11	Disposal of fixed assets	£m	3	1.693	1.096	1.536	0.646	1.467	0.250	0.613	0.425	0.193			
12	Movements on long term loans to group companies	£m	3	0.000	0.000	0.000	-2.998	-0.392	-1.097	0.710	0.356	0.045			
12a	Insurance proceeds	£m	3							1.120	0.000	0.000			
13	Net cashflow from investing activities	£m	3	-126.073	-135.714	-174.082	-184.265	-178.481	-161.769	-211.574	-285.531	-366.942			
D	**ACQUISITIONS AND DISPOSALS**														
14	Acquisitions and disposals	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000			
E	**EQUITY DIVIDENDS**														
15	Equity dividends paid	£m	3	-22.887	-21.510	-21.153	-23.742	-25.185	-26.619	-27.482	-17.121	-18.113			
F	**MANAGEMENT OF LIQUID RESOURCES**														
16	Net cashflow from management of liquid resources	£m	3	-0.980	-1.501	-0.007	1.237	-0.006	-0.001	-0.001	-0.009	-0.025			
17	Net cashflow before financing	£m	3	-32.889	-29.481	-66.313	-53.308	-37.325	-52.352	-117.653	-156.084	-171.411			
G	**FINANCING**														
18	Capital in finance lease rentals	£m	3	-1.888	-2.122	-2.376	-5.706	-7.028	-8.148	-8.994	-10.728	-12.083			
19	New bank loans taken out	£m	3	36.000	30.000	69.000	64.000	40.000	83.000	170.000	155.000	215.000			
20	Repayment of bank loans	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000			
21	Proceeds from share issues	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000			
22	Net cash inflow from financing	£m	3	34.112	27.878	66.624	58.294	32.972	74.852	161.006	144.272	202.917			
23	Increase/(decrease) in cash in the year	£m	3	1.223	-1.603	0.311	4.986	-4.353	22.500	43.353	-11.812	31.506			

Table 28 – Cashflow statement

Significant movements from last period

Line 1 - Net cashflow from operating activities

This has increased by £67.708m (32.80%) compared to the previous year's figures in the accounts. The reconciliation of operating profit to net cashflow from operating activities is shown in Table 29.

This is summarised in Table 29 as follows:

1	Historical cost operating profit	£m	155.788
2	Movement in working capital	£m	18.157
3	Depreciation	£m	109.426
4	Historical cost profit on sale of fixed assets	£m	(0.174)
5	Other non-cash profit and loss items	£m	(9.062)
6	Net cash flow from operating activities	£m	274.135

Line 3 – Interest paid

Interest paid has increased by 10.49% from £46.003m to £50.828m. There is an additional loan drawdown of £215m in 2023-2024. The balance on loans can be summarised as follows:

At 1 April 2007	£150m
At 31 March 2008	£307.56m (average for year £228.78m)
At 31 March 2009	£457.56m (average for year £382.56m)
At 31 March 2010	£627.56m (average for year £542.56m)
At 31 March 2011	£737.56m (average for year £682.56m)
At 31 March 2012	£807.56m (average for year £772.56m)
At 31 March 2013	£882.56m (average for year £845.06m)
At 31 March 2014	£911.56m (average for year £897.06m)
At 31 March 2015	£947.56m (average for year £929.56m)
At 31 March 2016	£983.56m (average for year £965.56m)
At 31 March 2017	£1,013.56m (average for year £998.56m)
At 31 March 2018	£1,082.56m (average for the year £1,048.06m)
At 31 March 2019	£1,146.56m (average for the year £1,114.56m)
At 31 March 2020	£1,186.56m (average for the year £1,166.56m)
At 31 March 2021	£1,269.56m (average for the year £1,228.06m)
At 31 March 2022	£1,439.56m (average for the year £1,354.56m)
At 31 March 2023	£1,594.56m (average for the year £1,517.06m)
At 31 March 2024	£1,809.56m (average for the year £1,702.06m)

Line 4 - Interest in finance lease rentals

The PPP project [redacted] during 2023-2024 gave rise to [redacted] (2022/23: [redacted]) interest payable on the associated finance lease. This decrease arises as an element of the unitary charge paid to the concessionaire is allocated by NIW to reducing the principal on the lease (see Line 18). There was [redacted] of interest payable relating to finance leases on the implementation of IFRS 16 Leases in 2019/20.

Line 8 - Gross cost of purchase of fixed assets

These have increased by £81.338m (28.37%). This is consistent with capital expenditure plans for 2023-24 and the movement in capital creditors across the period.

Line 16 - Net cashflow from management of liquid resources

Management of liquid resources represents the movement in monies held on short-term deposit accounts.

Monies on deposit have increased by £0.024m from the end of 2022-2023 to the end of 2023-2024. The balance on deposit at the end of 31st March 2024 is £1.311m.

Line 18 - Capital in finance lease rentals.

An amount of [redacted] was made in payment against the Alpha, Omega and Kinnegar PPP finance lease. An amount of [redacted] was made against finance leases on implementation of IFRS 16 Leases in 2019/20.

Line 19 - New bank loans taken out

In 2023-2024 £215m of additional loan notes were drawn down from DfI. These new loans were required to part finance the ongoing capital expenditure programme with the balance of capital expenditure financed by working capital.

PPP

The elements of PPP included in the cashflow are as follows:
The PPP aspect to lines 4 and 18 in Table 28 are outlined in 'significant movements from last period' in this commentary.

Included in Line 8: Gross cost of purchase of fixed assets in Table 28 is [redacted] in respect of capital maintenance additions for Alpha, Omega and Kinnegar PPP paid for via the unitary payments. All other capital expenditure for Alpha, Omega and Kinnegar is accounted for through the repayment of the finance lease.

NORTHERN IRELAND WATER LIMITED - ANNUAL INFORMATION RETURN

ANNUAL INFORMATION RETURN - TABLE 29 REGULATORY ACCOUNTS (HISTORIC COST ACCOUNTING)
RECONCILIATION OF OPERATING PROFIT TO NET CASH FLOW FROM OPERATING ACTIVITIES (TOTAL)

	DESCRIPTION	UNITS	DP	1 2015-16	2 2016-17	3 2017-18	4 2018-19	5 2019-20	6 2020-21	7 2021-22	8 2022-23	9 2023-24	10 2024-25	11 2025-26	12 2026-27
1	Operating profit	£m	3	53.738	56.925	106.485	141.077	142.734	114.964	101.209	101.340	155.788			
2	Working capital adjustment	£m	3												
3	Movement in working capital	£m	3	-9.675	-1.670	-5.910	3.535	1.870	11.878	-19.199	5.212	18.157			
4	Receipts from other income	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000			
5	Depreciation	£m	3	110.522	110.854	56.418	82.165	84.274	88.080	91.424	98.895	109.426			
6	Profit on sale of fixed assets	£m	3	-0.091	0.489	-1.035	-0.551	-0.467	-0.193	-0.585	-0.420	-0.174			
7	Infrastructure renewals charge	£m	3	25.286	25.008	25.757	0.000	0.000	0.000	0.000	0.000	0.000			
8	Other non-cash profit and loss items	£m	3	-8.036	-5.897	1.054	-5.168	1.035	-17.583	10.010	1.400	-9.062			
9	Net cash flow from operating activities	£m	3	170.228	182.677	182.769	221.058	229.446	197.146	182.859	206.427	274.135			

NORTHERN IRELAND WATER LIMITED - ANNUAL INFORMATION RETURN

ANNUAL INFORMATION RETURN - TABLE 32 FINANCIAL MEASURES

ANALYSIS OF FIXED ASSET ADDITIONS AND ASSET MAINTENANCE BY ASSET TYPE (HISTORIC COST ACCOUNTING) (NIW Only)

	DESCRIPTION	UNITS	DP	1	2	3	4	5	6	7
				WATER SERVICE			SEWERAGE SERVICE			
				INFRASTRUCTURE ASSETS	NON-INFRASTRUCTURE ASSETS	SUBTOTAL	INFRASTRUCTURE ASSETS	NON-INFRASTRUCTURE ASSETS	SUBTOTAL	TOTAL
A	NIW ADDITIONS -NEW ASSETS (ENHANCEMENT)									
1	Water resource facilities	£m	3	0.036	1.130	1.166				1.166
2	Water treatment works	£m	3		8.177	8.177				8.177
3	Water distribu ion mains	£m	3	19.455	0.166	19.621				19.621
4	Service reservoirs and water towers	£m	3		11.383	11.383				11.383
5	Pumping stations	£m	3		4.581	4.581				4.581
6	Water management and general	£m	3	1.216	11.220	12.436				12.436
7	Sewerage	£m	3				59.916	3.829	63.745	63.745
8	Sea outfalls and headworks	£m	3				0.016	0.030	0.046	0.046
9	Sewage treatment works	£m	3					51.828	51.828	51.828
10	Sludge treatment works	£m	3					1.043	1.043	1.043
11	Sludge disposal	£m	3				0.000	0.000	0.000	0.000
12	In-line pumping stations	£m	3					5.931	5.931	5.931
13	Terminal pumping stations	£m	3					2.020	2.020	2.020
14	Sewerage management and general	£m	3				3.573	4.877	8.450	8.450
15	Total infrastructure additions (Enhancement)	£m	3	20.706		20.706	63.504		63.504	84.210
16	Total non-infrastructure additions (Enhancement)	£m	3		36.658	36.658		69.557	69.557	106.215
17	Total addi ions (Enhancement)	£m	3	20.706	36.658	57.364	63.504	69.557	133.061	190.425
B	NIW BASE SERVICE PROVISION									
18	Water resource facilities	£m	3	0.364	1.400	1.763				1.763
19	Water treatment works	£m	3		29.687	29.687				29.687
20	Water distribu ion mains	£m	3	28.351	7.747	36.098				36.098
21	Service reservoirs and water towers	£m	3		7.112	7.112				7.112
22	Pumping stations	£m	3		5.404	5.404				5.404
23	Water management and general	£m	3	2.599	8.653	11.252				11.252
24	Sewerage	£m	3				21.361	1.026	22.387	22.387
25	Sea outfalls and headworks	£m	3				0.095	0.002	0.098	0.098
26	Sewage treatment works	£m	3					44.472	44.472	44.472
27	Sludge treatment works	£m	3					4.937	4.937	4.937
28	Sludge disposal	£m	3				0.000	0.000	0.000	0.000
29	In-line pumping stations	£m	3					8.987	8.987	8.987
30	Terminal pumping stations	£m	3					1.484	1.484	1.484
31	Sewerage management and general	£m	3				6.824	10.270	17.094	17.094
32	Total infrastructure renewals (Base)	£m	3	31.314		31.314	28.280		28.280	59.594
33	Total non-infrastructure expenditure (Base)	£m	3		60.002	60.002		71.179	71.179	131.181
34	Total expenditure (Base service provision)	£m	3	31.314	60.002	91.316	28.280	71.179	99.459	190.775

Table 32 – Analysis of Fixed Asset Additions and Asset Maintenance by Asset Type (Current Cost Accounting)

Refer to Chapter 40 for detailed commentary on this table. There are no reconciling items to report.

NORTHERN IRELAND WATER LIMITED - ANNUAL INFORMATION RETURN

ANNUAL INFORMATION RETURN - TABLE 33 FINANCIAL MEASURES (HISTORIC COST ACCOUNTING)

DEPRECIATION CHARGE BY ASSET TYPE (NIW Only)

	DESCRIPTION	UNITS	DP	1	2	3	4	5	6	7	8	9	10	11	12	CG	13	14	15	16	17	18	19	20	21	22	23	24	CG	25	26	27	28	29	30	31	32	33	34	35	36	CG
				Water Service													Sewerage Service													Total												
				2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27		2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27		2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	
A	**DEPRECIATION CHARGE FOR THE YEAR**																																								
1	Depreciation as at 31 March of the year	£m	3	38.517	16.635	16.839	29.363	29.363	30.375	32.026	35.409					B3	67.861	35.670	36.141	45.549	46.333	48.959	50.659	54.616					B3	106.378	52.305	52.980	73.771	75.696	79.334	82.685	90.019					B3
2	Depreciation on additions (enhancement assets) post 1 April 2014	£m	3									0.473				B3									1.146				B3									1.619				B3
3	Depreciation on additions (MNI assets) post 1 April 2014	£m	3									0.875				B3									1.720				B3									2.595				B3
4	Total depreciation charge for the year	£m	3									1.348				B3									2.866				B3									4.214				B3
5	Total depreciation charged	£m	3	38.517	16.635	16.839	29.363	29.363	30.375	32.026	35.409	39.439				B3	67.861	35.670	36.141	45.549	46.333	48.959	50.659	54.616	60.920				B3	106.378	52.305	52.980	73.771	75.696	79.334	82.685	90.019	100.359				B3

	DESCRIPTION	UNITS	DP	1	2	3	4	5	6	7	8	9	10	11	12	CG	13	14	15	16	17	18	19	20	21	22	23	24	CG	25	26	27	28	29	30	31	32	33	34	35	36	CG
				Water Service													Sewerage Service													Total												
				Actual 2015-16	Actual 2016-17	Actual 2017-18	Actual 2018-19	Actual 2019-20	Actual 2020-21	Actual 2021-22	Actual 2022-23	Actual 2023-24	Actual 2024-25	Actual 2025-26	Actual 2026-27		Actual 2015-16	Actual 2016-17	Actual 2017-18	Actual 2018-19	Actual 2019-20	Actual 2020-21	Actual 2021-22	Actual 2022-23	Actual 2023-24	Actual 2024-25	Actual 2025-26	Actual 2026-27		Actual 2015-16	Actual 2016-17	Actual 2017-18	Actual 2018-19	Actual 2019-20	Actual 2020-21	Actual 2021-22	Actual 2022-23	Actual 2023-24	Actual 2024-25	Actual 2025-26	Actual 2026-27	
B	**INFRASTRUCTURE RENEWALS CHARGES, EXPENDITURE AND PROVISION**																																								
6	Infrastructure renewals expenditure	£m	3	11.134	19.467	17.015	17.726	22.299	21.684	16.431	16.646	23.265				B2	9.010	10.434	13.235	14.864	14.280	15.195	13.609	13.599	23.375				B2	20.144	29.933	30.250	32.590	36.579	36.879	30.031	30.245	46.640				B2
7	Infrastructure renewals charges	£m	3	14.410	10.253	14.879	15.077	15.325	15.418	14.055	25.432	32.152				C5	10.876	14.795	11.078	11.379	11.588	11.638	12.020	24.058	25.669				C5	25.286	25.048	25.797	26.456	26.891	27.054	26.115	49.490	57.821				C5
8	Infrastructure renewals prepayment/ (accrual)	£m	3	7.881	17.125	19.462	22.111	29.085	35.352	37.697	28.901	20.015				C5	-15.244	-19.565	-17.408	-13.923	-11.209	-7.650	-6.070	-16.529	-18.823				C5	-7.363	-2.440	2.054	8.186	17.876	27.702	31.617	12.372	1.192				C5

NORTHERN IRELAND WATER LIMITED - ANNUAL INFORMATION RETURN

ANNUAL INFORMATION RETURN - TABLE 33 FINANCIAL MEASURES (HISTORIC COST ACCOUNTING)

DEPRECIATION CHARGE BY ASSET TYPE (PPP Only)

	DESCRIPTION	UNITS	DP	1	2	3	4	5	6	7	8	9	10	11	12	CG	13	14	15	16	17	18	19	20	21	22	23	24	CG	25	26	27	28	29	30	31	32	33	34	35	36	CG
				Water Service													Sewerage Service													Total												
				2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27		2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27		2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	
A	DEPRECIATION CHARGE FOR THE YEAR																																							
1	Depreciation as at 31 March of the year	£m	3	4.146	3.407	3.442	3.804	3.891	3.953	4.011	4.127					B3	0.000	0.000	0.000	4.590	4.687	4.793	4.728	4.751					B3	4.146	3.407	3.442	8.394	8.578	8.746	8.739	8.878					B3
2	Depreciation on additions (enhancement assets) post 1 April 2014	£m	3									0.000				B3									0.000				B3									0.000				B3
3	Depreciation on additions (MNI assets) post 1 April 2014	£m	3									0.115				B3									0.077				B3									0.192				B3
4	Total depreciation charge for the year	£m	3									0.115				B3									0.077				B3									0.192				B3
5	Total depreciation charged	£m	3	4.146	3.407	3.442	3.804	3.891	3.953	4.011	4.127	4.198				B3	0.000	0.000	0.000	4.590	4.687	4.793	4.728	4.751	4.868				B3	4.146	3.407	3.442	8.394	8.578	8.746	8.739	8.878	9.066				B3

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	DESCRIPTION	UNITS	DP	1	2	3	4	5	6	7	8	9	10	11	12	CG	13	14	15	16	17	18	19	20	21	22	23	24	CG	25	26	27	28	29	30	31	32	33	34	35	36	CG
				Water Service													Sewerage Service													Total												
				Actual 2015-16	Actual 2016-17	Actual 2017-18	Actual 2018-19	Actual 2019-20	Actual 2020-21	Actual 2021-22	Actual 2022-23	Actual 2023-24	Actual 2024-25	Actual 2025-26	Actual 2026-27		Actual 2015-16	Actual 2016-17	Actual 2017-18	Actual 2018-19	Actual 2019-20	Actual 2020-21	Actual 2021-22	Actual 2022-23	Actual 2023-24	Actual 2024-25	Actual 2025-26	Actual 2026-27		Actual 2015-16	Actual 2016-17	Actual 2017-18	Actual 2018-19	Actual 2019-20	Actual 2020-21	Actual 2021-22	Actual 2022-23	Actual 2023-24	Actual 2024-25	Actual 2025-26	Actual 2026-27	
B	INFRASTRUCTURE RENEWALS CHARGES, EXPENDITURE AND PROVISION																																							
6	Infrastructure renewals expenditure	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000				B2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000				B2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00				B2
7	Infrastructure renewals charges	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000				C5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000				C5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00				C5
8	Infrastructure renewals prepayment/ (accrual)	£m	3	1.519	1.519	1.519	1.519	1.519	1.519	1.519	1.519	1.519				C5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000				C5	1.519	1.519	1.519	1.519	1.519	1.519	1.519	1.519	1.519				C5

NORTHERN IRELAND WATER LIMITED - ANNUAL INFORMATION RETURN

ANNUAL INFORMATION RETURN - TABLE 33 FINANCIAL MEASURES (HISTORIC COST ACCOUNTING)

DEPRECIATION CHARGE BY ASSET TYPE (Total)

	DESCRIPTION	UNITS	DP	Water Service												Sewerage Service												Total											
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
				2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27
A	DEPRECIATION CHARGE FOR THE YEAR																																						
1	Depreciation as at 31 March of the year	£m	3	42.665	20.040	20.281	32.026	33.254	34.328	36.037	39.536					67.861	35.670	36.141	50.139	51.020	53.752	55.387	59.361					110.524	55.712	56.422	82.165	84.274	88.080	91.424	98.897				
2	Depreciation on additions (enhancement assets) post 1 April 2014	£m	3									0.473												1.146												1.619			
3	Depreciation on additions (MNI assets) post 1 April 2014	£m	3									0.990												1.797												2.787			
4	Total depreciation charge for the year	£m	3									1.463												2.943												4.406			
5	Total depreciation charged	£m	3	42.665	20.040	20.281	32.026	33.254	34.328	36.037	39.536	43.637				67.861	35.670	36.141	50.139	51.020	53.752	55.387	59.361	65.786				110.524	55.712	56.422	82.165	84.274	88.080	91.424	98.897	109.425			

	DESCRIPTION	UNITS	DP	Water Service												Sewerage Service												Total											
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
				Actual 2015-16	Actual 2016-17	Actual 2017-18	Actual 2018-19	Actual 2019-20	Actual 2020-21	Actual 2021-22	Actual 2022-23	Actual 2023-24	Actual 2024-25	Actual 2025-26	Actual 2026-27	Actual 2015-16	Actual 2016-17	Actual 2017-18	Actual 2018-19	Actual 2019-20	Actual 2020-21	Actual 2021-22	Actual 2022-23	Actual 2023-24	Actual 2024-25	Actual 2025-26	Actual 2026-27	Actual 2015-16	Actual 2016-17	Actual 2017-18	Actual 2018-19	Actual 2019-20	Actual 2020-21	Actual 2021-22	Actual 2022-23	Actual 2023-24	Actual 2024-25	Actual 2025-26	Actual 2026-27
B	INFRASTRUCTURE RENEWALS CHARGES, EXPENDITURE AND PROVISION																																						
6	Infrastructure renewals expenditure	£m	3	11.134	19.497	17.015	17.726	22.299	21.684	16.437	16.646	23.285				9.010	10.434	13.235	14.804	14.260	15.195	13.600	13.599	23.375				20.144	29.931	30.250	32.530	36.579	36.879	30.037	13.599	46.660			
7	Infrastructure renewals charges	£m	3	14.410	10.253	14.679	15.077	15.325	15.418	14.095	25.432	32.152				10.876	14.755	11.078	11.379	11.566	11.636	12.020	24.058	25.669				25.286	25.008	25.757	26.456	26.891	27.054	26.115	24.058	57.821			
8	Infrastructure renewals prepayment/ (accrual)	£m	3	9.409	18.644	20.981	23.630	30.604	36.871	39.266	30.420	21.534				-15.244	-19.566	-17.408	-13.923	-11.209	-7.650	-6.070	-16.529	-18.823				-5.844	-0.921	3.573	9.707	19.395	29.221	33.136	-16.529	2.711			

Table 33 – Depreciation Charge by Asset Type

IFRS Depreciation Charge

The depreciation charge for the year has been populated using the same methodology used to populate Table 25. IFRS depreciation was calculated using the Fixed Asset Register (Real Asset Management).

The final IFRS depreciation report was used to analyse assets into each of their respective asset categories and service activities to identify the water and sewerage services. The management and general service activity could not be readily identified as water and sewerage services and have used the following percentages split as per IFM: Water 41% and Sewerage 59%.

The table has been populated using actual depreciation figures for each financial year contained in the relevant Regulatory Accounts.

With respect to Confidence Grades this is reported as B3. This is applied given the close link with the CIDA allocations data source which has been reported as B3 in the capital expenditure tables 35 and 36.

There are three main PPP Projects – Alpha, Omega and Kinnegar. The depreciation for these PPP assets is shown separately in the second table for PPP only.

Depreciation for the year in relation to the PPP Alpha Project was [redacted] for 2023/24 (2022/23: [redacted]). Deprecation for Omega in 2023/24 is [redacted] (2022/23: [redacted]) and Kinnegar [redacted] (2022/23: [redacted]).

The asset lives used in calculating depreciation are consistent with those that have been used to populate Table 34.

	Water (23/24)	Sewerage (23/24)	Total (23/24)
IFRS Depreciation in year	£43,637,636.36	£65,788,427.31	£109,426,063.67
Accelerated Depreciation	-	-	-
Total (2022/2023)	£43,637,636,36	£65,788,427.31	£109,426,063.67

	Water (22/23)	Sewerage (22/23)	Total (22/23)
IFRS Depreciation in year	£39,536,273.47	£59,360,232.70	£98,896,506.17
Accelerated Depreciation	-	-	-
Total (2022/2023)	£39,536,273.47	£59,360,232.70	£98,896,506.17

Infrastructure Renewals accounting

The IRC calculation for 23/24 is based on the final determination arising from PC21. The Regulator determined that the IRC and IRE will be the same for the six year period of PC21. The projected IRE forms part of the PC21 capital expenditure plans.

The difference between the actual out-turn IRE and the IRC is treated as an accrual or prepayment.

2023-2024 IRC

The IRC for 2023-2024 based on PC21 can be summarised as follows:

Water - £32.152m
Sewerage - £25.669m
Total - £57.821m

The out-turn IRE for 2023-2024 can be shown as follows:

Water - £23.265m
Sewerage - £23.375m
Total - £46.640m

The accruals at 31 March 2024 can be shown as follows:

	W TOTAL £m	S TOTAL £m	Total TOTAL £m
IRE	23.265	23.375	46.640
IRC	(32.152)	(25.669)	(57.821)
In year prepayment / (accrual)	(8.887)	(2.294)	(11.181)
c/f prepayment / (accrual)	30.421	(16.529)	13.892
Cumulative prepayment / (accrual)	21.534	(18.823)	2.711

At the end of the year to 31 March 2024 a prepayment balance of £2.711m was evident. This balance arose as the in-year accrual of £11.181m for 2023/24 was added to the cumulative brought forward prepayment balance of £13.892m, which existed at 31st March 2023.

In line with the underlying principles of infrastructure renewals accounting it is anticipated that the cumulative level of IRE and IRC should broadly match over the longer term. The water prepayment and sewerage accrual at 31st March 2024 will be monitored to ensure that the level of IRC charged in the future to the profit and loss account is appropriate given actual levels of IRE.

PPP

Alpha, Omega and Kinnegar have not given rise to any IRE for this year and therefore no IRC has been allocated to the PPP services.

The Statutory accounts are prepared under IFRS and infrastructure renewals accounting is not applied. Infrastructure depreciation is charged in the statutory accounts and the value of this would differ from the IRC in the regulatory accounts. However, AIR 24 has been prepared under IFRS as directed by the Utility Regulator. No IRC is reported in the regulatory accounts. IRC and IRE are only reported in Table 33.

NORTHERN IRELAND WATER LIMITED - ANNUAL INFORMATION RETURN

ANNUAL INFORMATION RETURN - TABLE 34 FINANCIAL MEASURES
ANALYSIS OF NON-INFRASTRUCTURE FIXED ASSET ADDITIONS BY LIFE CATEGORIES - NI WATER ONLY

	DESCRIPTION	UNITS	DP	1	2	3	4	5	6	7	8	9	10	11	12	CG	13	14	15	16	17	18	19	20	21	22	23	24	CG
				Water Service													Sewerage Service												
				2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27		2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	
A	ACCOUNTING FIXED ASSET ADDITIONS NON-INFRASTRUCTURE ASSET ADDITIONS (ENHANCEMENT) BY ASSET LIFE																											
1	Very Short	£m	3	0.077	0.199	0.032	0.018	0.031	0.000	1.221	0.222	0.856				B2	0.071	0.156	-0.001	0.025	0.043	0.008	1.389	0.555	1.567				B2
2	Short	£m	3	1.154	2.954	2.858	1.710	1.921	4.082	5.793	6.826	6.199				B2	4.272	1.908	2.049	4.274	5.731	6.440	6.483	8.583	12.523				B2
3	Medium	£m	3	2.279	1.536	7.662	3.562	6.407	8.395	10.893	20.967	15.024				B2	4.251	6.604	6.082	8.813	10.114	11.946	13.986	17.759	24.546				B2
4	Medium long	£m	3	0.000	0.000	-0.003	0.000	0.111	0.000	0.128	0.000	0.035				B2	0.002	0.001	0.012	-0.003	0.001	0.000	0.004	0.028	0.001				B2
5	Long	£m	3	2.715	2.094	3.405	7.858	7.250	5.860	6.587	10.845	14.545				B2	6.455	9.202	9.578	9.093	14.158	13.266	17.196	22.485	30.919				B2
6	Land	£m	3	0.000	0.009	0.695	0.230	0.215	0.287	0.152	0.000	0.000				B2	0.261	0.340	0.538	0.201	-0.041	0.000	0.000	0.000	0.000				B2
7	Land Disposals	£m	3	-0.164	-0.166	-0.128	0.046	0.000	0.000	0.000	-0.001	0.164				B2	-0.251	-0.120	-0.114	0.049	0.000	0.000	0.000	-0.001	1.996				B2
8	Total	£m	3	6.061	6.626	14.520	13.425	15.937	18.624	24.774	38.859	36.821				B2	15.060	18.091	18.144	22.452	30.005	31.659	39.057	49.408	71.553				B2
B	NON-INFRASTRUCTURE ASSET ADDITIONS (BASE SERVICE) BY ASSET LIFE																											
9	Very Short	£m	3	1.705	2.044	1.504	0.959	1.774	1.219	0.911	1.077	1.033				B2	0.811	1.780	1.143	1.071	2.092	1.015	1.258	2.358	2.538				B2
10	Short	£m	3	4.524	4.585	4.186	6.558	6.413	8.261	11.669	13.648	10.511				B2	4.545	4.560	4.781	9.834	7.272	8.600	8.593	11.431	15.403				B2
11	Medium	£m	3	10.926	12.066	11.994	10.006	5.668	6.299	23.733	15.151	25.089				B2	22.828	25.713	23.372	19.223	19.412	20.655	28.690	32.178	28.676				B2
12	Medium long	£m	3	0.380	0.481	0.149	0.053	0.034	0.078	0.123	0.302	0.563				B2	0.092	0.164	0.084	0.166	0.119	0.068	0.193	0.178	0.038				B2
13	Long	£m	3	5.701	4.368	4.159	4.398	3.676	3.889	9.533	16.092	22.806				B2	14.523	14.031	13.473	13.574	10.934	10.008	10.258	20.938	24.525				B2
14	Total	£m	3	23.235	23.543	21.992	21.974	17.564	19.746	45.970	46.270	60.002				B2	42.799	46.247	42.854	43.868	39.830	40.345	48.992	67.083	71.179				B2
C	NON-INFRASTRUCTURE ADDITIONS AVERAGE LIFE (YEARS)																											
15	Very Short	years	0																									
16	Short	years	0																									
17	Medium	years	0																									
18	Medium long	years	0																									
19	Long	years	0																									

NORTHERN IRELAND WATER LIMITED - ANNUAL INFORMATION RETURN

ANNUAL INFORMATION RETURN - TABLE 34 FINANCIAL MEASURES
ANALYSIS OF NON-INFRASTRUCTURE FIXED ASSET ADDITIONS BY LIFE CATEGORIES - PPP

	DESCRIPTION	UNITS	DP	1	2	3	4	5	6	7	8	9	10	11	12		13	14	15	16	17	18	19	20	21	22	23	24	
				Water Service													Sewerage Service												
				2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	CG	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	CG
A	ACCOUNTING FIXED ASSET ADDITIONS NON-INFRASTRUCTURE ASSET ADDITIONS (ENHANCEMENT) BY ASSET LIFE																											
1	Very Short	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000				n/a	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000				n/a
2	Short	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000				n/a	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000				n/a
3	Medium	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000				n/a	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000				n/a
4	Medium long	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000				n/a	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000				n/a
5	Long	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000				n/a	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000				n/a
6	Land	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000				n/a	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000				n/a
7	Land Disposals	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000				n/a	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000				n/a
8	Total	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000				n/a	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000				n/a
B	NON-INFRASTRUCTURE ASSET ADDITIONS (BASE SERVICE) BY ASSET LIFE																											
9	Very Short	£m	3													n/a													n/a
10	Short	£m	3													n/a													n/a
11	Medium	£m	3													n/a													n/a
12	Medium long	£m	3													n/a													n/a
13	Long	£m	3													n/a													n/a
14	Total	£m	3													n/a													n/a
C	NON-INFRASTRUCTURE ADDITIONS AVERAGE LIFE (YEARS)																											
15	Very Short	years	0																									
16	Short	years	0																									
17	Medium	years	0																									
18	Medium long	years	0																									
19	Long	years	0																									

Table 34 – Financial Measures (Current Cost Accounting) - Analysis of Non-Infrastructure Fixed Asset Additions by Life Categories

Asset lives

The last comprehensive review of asset lives was completed as part of NIAMP2 in 2001. An interim review was completed in 2011/12 following the reporter recommendations in AIR11 and 8 new financial categories have been added to list used in NI Water. Any further changes will be processed as they occur. Asset lives on historic projects have not been amended to reflect new asset life categories. The new financial categories added and in use from April 2012 are as follows:

Table 1: New financial categories

Financial Category	Definition	Life in years
Fences	All fences around sites	40
Meters	Domestic Water Meters	17
Batteries	Batteries for loggers, toughbooks etc.	4
Filter Media	Media in Biological filters, Sand filters etc.	20
MBR Membranes	MBR membranes	5
Rotating Biological Filters	RBC package plants	20
Kiosks	All kiosk type structures including small control kiosks and prefabricated control buildings	20
Steel Tanks	All Steel tanks for storage and processes	40

Following reporter review of the PC15 plan a change initiated for AIR16 has been continued in AIR24. This change applies to the life for Meters which have been changed to 17 years to align with PC15 Business plan assumptions.

The above categories have been added to CPMR/Captrax for CIDA allocation. The availability of the financial category is dependent on the asset type selected so for example MBR membranes are only available for selection within WwTW. The definitions have also been uploaded within the selection process, as a reminder to the project manager when selections are being made.

Individual judgements on asset lives are not made during this annual process of AIR collation.

Methodology PPP table

Figures for PPP Alpha Capital maintenance have been taken directly from the PPP Model and apportioned between Fixed Plant and Civils as per the PPP Model. This is the same process as adopted since AIR09.

PPP - Omega

No PPP OMEGA capital has been reported in the current year AIR financial tables for the following reasons:

- The Capital Cost split between Civils and M & E has been extracted from the PPP Model. This does not distinguish between infra and non infra elements and unlike ALPHA no valid assumptions can be made to define individual projects as some of the projects contain both infra and non infra elements.
- QBEG information has been captured on each project within OMEGA in a similar basis as was captured for the SBP submission which includes backlog base. In order

to maintain consistency within all the tables we have not populated any of the OMEGA capital expenditure within the tables.

PPP - Kinnegar

No PPP Kinnegar residual interest finance has been populated as NI Water has no information on either the QBEG or the Asset Life categories for this project.

NI Water Table

The asset lives adopted for Regulatory reporting are consistent with those in the Fixed Asset Register (FAR). The links for reporting purposes are outlined in the Capital investment Driver allocation manual.

The last comprehensive review of asset lives was completed as part of NIAMP2 in 2001. An interim review was completed in 2011/12 and new financial categories have been added to NI Water systems for application from April 2012.
Expenditure is charged to individual projects and these are assigned individual asset lives for regulatory reporting.

This table is consistent with the analysis in Table 32. All expenditure reported in Table 34 is in outturn prices, gross of grants and contributions.

PPP Table

The expenditure of [redacted] on this table relates to the Capital Maintenance element of PPP Alpha expenditure for the current year. The [redacted] is reported in Section B of the table and is split using the Asset lives split assumed in the PPP Model. There is no PPP Capital on Sewerage

Land Disposal

The Historical Cost Accounting (HCA) book value is determined from the Fixed Asset Register based upon the Asset Management plan completed in 2001. The figures stated are the HCA book values for all disposals in the stated year.

Assets fully depreciated but still in use at year-end

The total current cost Gross Book Value (GBV) of assets on the fixed asset register at Year End, with zero Net Book Value (NBV) is £259,935,696.06.

Confidence grades

Confidence grades have been assigned to the elements of Table 34 based on guidance received from the Reporter in AIR11:

"The Company should apply a confidence grade of B2 for most lines, with B3 for the smaller numbers (where a single misallocation could be more significant)."

NORTHERN IRELAND WATER LIMITED - ANNUAL INFORMATION RETURN

ANNUAL INFORMATION RETURN - TABLE 35 FINANCIAL MEASURES

CAPITAL INVESTMENT - PUBLIC EXPENDITURE RECONCILIATION

	DESCRIPTION	UNITS	DP	1 2015-16	2 2016-17	3 2017-18	4 2018-19	5 2019-20	6 2020-21	7 2021-22	8 2022-23	9 2023-24	10 2024-25	11 2025-26	12 2026-27
A	**Available PE capital budget in nominal prices**														
1	Public Expenditure capital budget available	£m	3												
B	**Capital budget statement in nominal prices**														
2	Public Expenditure capital budget used	£m	3	140.291	147.099	174.969	162.956	153.441	170.659	222.050	290.127	337.268			
3	Alpha PPP maintenance	£m	3	-1.228	-0.500	-3.176	-1.857	-1.652	-2.384	-2.633	-1.816	-1.640			
4	Residual interest in off-balance sheet PPP	£m	3												
5	IFRS infrastructure renewal charge adjustment	£m	3	1.194	1.117	1.188	1.213	0.000	0.000	0.000	0.000	0.000			
6	*Further adjustments……*	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000			
6a	Unwinding of capital provision	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	1.000	0.000	0.000			
6b	Rounding	£m	3	-0.001	0.000	-0.003	0.002	-0.009	-0.002	-0.115	-0.051	0.034			
6c	Decapitalised assets	£m	3	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000			
6d	Project Clear: Acquistion of Alpha PPP	£m	3			-29.179	0.000	0.000	0.000	0.000	0.000	0.000			
7	Capital grants and contributions	£m	3	7.985	11.550	14.009	14.005	25.970	14.396	14.072	12.781	11.978			
8	Capital grants and contributions transferred to deferred credits	£m	3	-0.999	-1.284	-1.452	-1.354	-1.457	-1.295	-1.440	-1.321	-1.394			
9	NI Water gross capital budget	£m	3	143.691	154.337	152.620	171.135	172.366	177.352	228.810	295.820	341.547			

Table 35 – Financial Measures – Capital Investment – Public Expenditure Reconciliation

Introduction

This table provides a statement of the capital budget available and capital budget utilised in Public Expenditure terms and the gross capital expenditure by NI Water, all expressed in nominal terms. The table follows the content and structure of Table 3.2 of the PC21 information requirements to facilitate comparison between the Business Plan submission and actual expenditure.

Block A reports the available Public Expenditure capital budget agreed with the Department for infrastructure, DfI, for the relevant financial year. Block B provides a reconciliation between the Public Expenditure capital budget used and NI Water's gross capital expenditure, identifying differences arising from changes due to the treatment of PPP unitary charge, different accounting treatments and the impact of income from capital grants and contributions.

Line 1 - Public Expenditure capital budget available

Entries to line 1 represent the total budget 'Capital DEL Acquisitions' agreed with DfI for each financial year and includes movements to funding resulting from budget transfers within monitoring rounds. This is all expenditure which DfI classifies as 'capital DEL' and includes normal capital expenditure (both base & enhancement), PPP capital maintenance on on-balance sheet PPP contracts and residual interest on off-balance sheet PPP contracts.

As DfI have adopted IFRS as an accounting framework, the available PE will also be stated on an IFRS basis.

In the reporting year, the PE capital DEL budgeted at the beginning of the year was £370.0m including £51.6m LWWP. This was £20.3m less than that assumed within the PC21 FD, after revised indexation is taken into account. This is set out in the table below and shows that this £20.3m reduction in capital DEL from the PC21 FD is equivalent to a £25.0m reduction in gross capital expenditure once other capital allocations are taken into account.

	PC21 Final Determination (re-indexed)	Budget	Variance
	2023-24	2023-24	2023-24
	£M	£M	£M
PE Capital DEL Acquisitions	390.3	370.0	+20.3
Alpha PPP maintenance / capex	(1.4)	(1.4)	-
Residual interest in off balance sheet PPP	(4.3)	(4.7)	+0.4
Capital grants and contributions	16.0	11.1	+4.9
Capital grants and contributions transferred to deferred credits	(1.9)	(1.3)	(0.6)
NI Water gross capital budget	398.7	373.7	+25.0

Capital DEL available was only confirmed as £321.176m in May-23 which was significantly lower than the £370m assumed in the budget. In terms of movements in funding within the current year, NI Water's 'Capital DEL Acquisitions' budget was increased by £16.132m over

the year. This included additional CDEL allocations via monitoring rounds and other more specific funding including SBRI funding for smart sewer networks and DfE funding for hydro turbines, pumps plus some additional LWWP funding.

The PE capital DEL funding (DEL Acquisitions) at the end of the reporting year is as follows:

	Funding	2022/23
	Confirmed	£m
PE Capital DEL budget at start of year	May-23	321.176
Additional CDEL Allocations	Feb-24	7.000
Additional CDEL Allocations	Mar-24	3.000
LWWP Belfast SDIP Integrated Drainage Modelling	Jul-23	0.700
DfE funding re flooding Oct-23	Feb-24	0.302
DfE - Hydro turbines	Sep-23	2.708
DfE - Pumps	Sep-23	2.000
SBRI Smart Sewer Network Phase 2	Oct-23	0.400
Gross up for DEL Disposals		0.022
Final DfI budget available at end of year		**337.308**

Taking into account these and other movements, gross capital expenditure available to NI Water was £337.3m, £53.0m lower than assumed in the PC21 FD.

	PC21 Final Determination	Final Outturn	Variance
	2023-24	2023-24	2023-24
	£M	£M	£M
PE Capital DEL Acquisitions	390.3	337.3	+53.0
Alpha PPP maintenance / capex	(1.4)	(1.6)	+0.2
Residual interest in off balance sheet PPP	(4.3)	(4.7)	+0.4
Capital grants and contributions	16.0	12.0	+4.0
Capital grants and contributions transferred to deferred credits	(1.9)	(1.4)	(0.5)
NI Water gross capital budget	398.7	341.6	+57.1

Higher RPI inflation than that assumed in the PC21 FD has resulted in an increase in funding required to deliver the programme. This has been reflected in the FD numbers above with the Capital DEL figure being £63.0m higher than published in the FD.

Line 2 – PE capital budget used

Represents total 'Capital DEL Acquisitions' calculated as line 9 minus the sum of lines 3 – 8 inclusive.

Taking into account the additional budget transfers received, actual spend was in line with available 'Capital DEL Acquisitions'.

Note the PE capital used has been agreed to our 2023-24 'provisional outturn' return submitted to DfI on the 30th April 2024. The 2023-24 'final outturn' will be provided to DfI mid-July. At this time we are not aware of any potential change to the provisional figure we have used but will update the Utility Regulator of any change post submission.

Line 3 – Alpha PPP maintenance

Following the Alpha purchase in 2017/18, actual capital expenditure by the Alpha group of companies now scores as Capital DEL under Public Expenditure.

The amounts reported within line 3 includes £1.640 m capital expenditure incurred directly by NI Water Alpha Ltd.

Line 4 – Residual interest in off-balance sheet PPP

This represents the element of the Omega and Kinnegar PPP unitary payments which is allocated against residual interest in the relevant year.

Although the Regulatory Accounts are now presented in IFRS, for government reporting purposes, Omega & Kinnegar remain off-balance sheet.

Each year a portion of the unitary charge is debited against a 'residual interest asset' on the balance sheet with the aim of building up an asset which can be transferred to NI Water at end of the PPP contract term. The value of this asset would equal the forecast residual value of the relevant assets at the time of transfer.

The breakdown between Omega & Kinnegar is shown below.

	2022/23
Kinnegar Residual Interest	[redacted]
Omega Residual Interest	[redacted]
Total	[redacted]

Due to the move to IFRS, entries to this line no longer reconcile directly to Table 42. This is due to Omega and Kinnegar remaining off balance sheet for Government reporting.

Line 5 – IFRS infrastructure renewals charge adjustment

No longer required as this adjustment is included within gross capital expenditure within Table 36.

Line 6 – Further adjustments

Line 6b shows an unreconciled difference of -£0.051m which is deemed immaterial and has not been looked into further. We are content with the reconciliation between reported capital DEL and capital expenditure as reported in our statutory accounts.

Line 7 – Capital grants and contributions

This represents the total of capital grants and contributions received in nominal prices.

Entries to this line are consistent with Table 37 line 17.

Line 8 – Capital grants and contributions transferred to deferred credits

An element of the capital grants and contributions received is assumed to relate to non-infrastructure assets with an associated useful life. Adoption of the financial 'matching' principle, i.e. the process of linking revenue to associated costs means that we must match the amortisation of the contribution against the depreciation charge on the assets over their useful economic life.

We currently assume 30% of infrastructure charges relate to non-infrastructure and is transferred to a deferred capital contribution account and released to the P&L over a 20 year period.

Entries to this line are consistent with Table 37 line 18.

Line 9 – NI Water gross capital expenditure

Represents gross capital expenditure as per Table 36. This line now incorporates the IFRS repairs adjustment which was previously reported in Table 35 Line 5.

NORTHERN IRELAND WATER LIMITED - ANNUAL INFORMATION RETURN

ANNUAL INFORMATION RETURN - TABLE 36 FINANCIAL MEASURES
CAPITAL INVESTMENT - GROSS CAPITAL INVESTMENT SUMMARY

	DESCRIPTION	UNITS	DP	1 REPORTING YEAR 2015-16	CG	2 REPORTING YEAR 2016-17	CG	3 REPORTING YEAR 2017-18	CG	4 REPORTING YEAR 2018-19	CG	5 REPORTING YEAR 2019-20	CG	6 REPORTING YEAR 2020-21	CG	7 REPORTING YEAR 2021-22	CG	8 REPORTING YEAR 2022-23	CG	9 REPORTING YEAR 2023-24	CG	10 REPORTING YEAR 2024-25	CG	11 REPORTING YEAR 2025-26	CG	12 REPORTING YEAR 2026-27	CG
A	**Water service**																										
1	Non-infrastructure maintenance (gross of grants and contributions)	£m	3	23.235	B2	23.543	B3	21.992	B3	21.415	B3	17.198	B3	19.599	B3	44.891	B3	46.270	B3	60.002	B3						
2	Infrastructure renewals expenditure (gross)	£m	3	11.133	B2	19.497	B3	16.687	B3	17.725	B3	22.280	B3	21.691	B3	13.693	B3	34.734	B3	29.725	B3						
3	Capital expenditure - quality enhancement programme	£m	3	14.646	B2	14.177	B3	7.347	B3	11.233	B3	10.372	B3	10.637	B3	13.585	B3	17.980	B3	9.806	B3						
4	Capital expenditure - customer service	£m	3	1.194	B2	3.175	B3	11.304	B3	5.068	B3	9.088	B3	13.424	B3	12.415	B3	16.739	B3	16.590	B3						
5	Capital expenditure - supply demand balance	£m	3	13.791	B2	7.393	B3	5.554	B3	14.867	B3	16.718	B3	13.194	B3	14.718	B3	16.908	B3	30.968	B3						
5a	Capex - new development	£m	3	5.258	B2	4.721	B3	3.045	B3	5.835	B3	7.716	B3	6.418	B3	5.903	B3	2.162	B3	2.794	B3						
5b	Capex - growth	£m	3	0.051	B3	0.016	B3	-0.012	B3	4.118	B3	2.535	B3	0.523	B3	1.027	B3	4.225	B3	8.551	B3						
5c	Capex - security of supply	£m	3	8.436	B2	2.625	B3		B3	4.890	B3	6.447	B3	6.245	B3	7.788	B3	10.521	B3	19.623	B3						
5d	Capex - free meters	£m	3	0.046	B3	0.031	B3	0.034	B3	0.024	B3	0.020	B3	0.008	B3	0.000	B3	0.000	B3	0.000	B3						
6	Gross capital expenditure - water service	£m	3	63.999	B2	67.786	B3	62.885	B3	70.308	B3	75.657	B3	78.544	B3	99.303	B3	132.630	B3	147.091	B3						
B	**Sewerage Service**																										
7	Non-infrastructure maintenance (gross of grants and contributions)	£m	3	42.799	B2	46.247	B3	42.854	B3	43.019	B3	38.908	B3	40.040	B3	48.572	B3	67.083	B3	71.179	B3						
8	Infrastructure renewals expenditure (gross)	£m	3	9.010	B2	10.434	B3	10.475	B3	14.864	B3	14.310	B3	15.179	B3	13.469	B3	23.775	B3	28.298	B3						
9	Capital expenditure - quality enhancement programme	£m	3	13.851	B2	13.559	B3	16.305	B3	19.301	B3	24.448	B3	21.316	B3	29.134	B3	38.669	B3	46.261	B3						
10	Capital expenditure - customer service	£m	3	4.406	B2	5.359	B3	7.518	B3	10.517	B3	7.292	B3	8.389	B3	16.753	B3	13.241	B3	13.435	B3						
11	Capital expenditure - supply demand balance	£m	3	9.626	B2	10.951	B3	12.584	B3	13.127	B3	11.752	B3	13.883	B3	21.579	B3	20.422	B3	33.440	B3						
11a	Capex - new development	£m	3	9.626	B2	10.951	B3	12.578	B3	13.127	B3	11.064	B3	8.867	B3	15.192	B3	12.808	B3	12.621	B3						
11b	Capex - sewage treatment	£m	3	0.000	B3	0.000	B3	0.007	B3	0.000	B3	0.687	B3	5.016	B3	6.387	B3	7.614	B3	20.819	B3						
12	Gross capital expenditure - sewerage service	£m	3	79.692	B2	86.551	B3	89.735	B3	100.828	B3	96.710	B3	98.807	B3	129.507	B3	163.190	B3	192.613	B3						
C	**Gross capital expenditure total**																										
13	Gross capital expenditure total	£m	3	143.691	B2	154.337	B3	152.620	B3	171.135	B3	172.366	B3	177.352	B3	228.810	B3	295.820	B3	339.704	B3						
D	**Adopted assets, nil cost assets**	£m	3																								
14	Water service assets adopted at nil cost	£m	3	0.000	B3	0.000	B3	0.000	B3	0.000	B3	0.000	B3	0.000	n/a	0.000	n/a	0.000	B3	0.000	B3						
15	Water service assets adopted in return for an payment	£m	3	0.000	B3	0.000	B3	0.000	B3	0.000	B3	0.000	B3	0.000	n/a	0.000	n/a	0.000	B3	0.000	B3						
16	Sewerage service asset adopted at nil cost	£m	3	32.724	B2	32.071	B3	31.145	B3	34.295	B3	46.713	B3	40.680	B3	39.994	B3	29.682	B3	39.925	B3						
17	Sewerage service assets adopted in return for a payment.	£m	3	0.000	B3	0.000	B3	0.000	B3	0.000	B3	0.000	B3	0.000	n/a	0.000	n/a	0.000	B3	0.000	B3						
18	Total adopted assets and nil cost assets	£m	3	32.724	B3	32.071	B3	31.145	B3	34.295	B3	46.713	B3	40.680	B3	39.994	B3	29.682	B3	39.925	B3						
E	**Infrastructure renewals expenditure (net)**																										
19	Water service infrastructure renewals expenditure (net) (NIW only)	£m	3	10.930	B2	19.430	A2	16.609	A2	17.579	A2	22.180	A2	21.639	A2	13.348	A2	36.057	A2	31.314	A2						
20	Sewerage service infrastructure renewals expenditure (net) (NIW only	£m	3	9.010	B2	10.434	A2	10.461	A2	14.861	A2	14.300	A2	15.077	A2	13.461	A2	23.767	A2	28.280	A2						
21	Total infrastructure renewals expenditure (net) (NIW only)	£m	3	19.941	B2	29.864	A2	27.070	A2	32.440	A2	36.479	A2	36.717	A2	26.809	A2	59.823	A2	59.594	A2						
F	**Total asset additions**																										
22	Water service total asset additions	£m	3	52.866	B2	48.289	B3	46.197	B3	52.582	B3	53.376	B3	56.853	B3	85.610	B3	97.896	B3	117.365	B3						
23	Sewerage service total asset additions	£m	3	103.406	B2	108.188	B3	110.405	B3	120.258	B3	129.112	B3	124.309	B3	156.032	B3	169.097	B3	204.241	B3						
24	Total asset additions	£m	3	156.272	B2	156.477	B3	156.603	B3	172.841	B3	182.489	B3	181.162	B3	241.642	B3	266.994	B3	321.606	B3						

Table 36 - Capital Investment - Gross Capital Investment Summary

Refer to Chapter 40 for detailed commentary on this table. There are no reconciling items to report.

NORTHERN IRELAND WATER LIMITED - ANNUAL INFORMATION RETURN

ANNUAL INFORMATION RETURN - TABLE 36A FINANCIAL MEASURES
CAPITAL INVESTMENT - GROSS CAPITAL INVESTMENT VARIANCE

				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
				PC21 OUTTURN (£M)							PC21 FINAL DETERMINATION (£M)							PC21 VARIANCE FROM FD (£M)							PC21 VARIANCE FROM FD (%)						
	DESCRIPTION	UNITS	DP	REPORTING YEAR 2021-22	REPORTING YEAR 2022-23	REPORTING YEAR 2023-24	REPORTING YEAR 2024-25	REPORTING YEAR 2025-26	REPORTING YEAR 2026-27	TOTAL TO DATE PC21	REPORTING YEAR 2021-22	REPORTING YEAR 2022-23	REPORTING YEAR 2023-24	REPORTING YEAR 2024-25	REPORTING YEAR 2025-26	REPORTING YEAR 2026-27	TOTAL TO DATE PC21	REPORTING YEAR 2021-22	REPORTING YEAR 2022-23	REPORTING YEAR 2023-24	REPORTING YEAR 2024-25	REPORTING YEAR 2025-26	REPORTING YEAR 2026-27	TOTAL TO DATE PC21	REPORTING YEAR 2021-22	REPORTING YEAR 2022-23	REPORTING YEAR 2023-24	REPORTING YEAR 2024-25	REPORTING YEAR 2025-26	REPORTING YEAR 2026-27	TOTAL TO DATE PC21
A	**Water service**																														
1	Non-infrastructure maintenance (gross of grants and contributions)	£m	3	44.891	46.270	61.337				152.498	17.826	29.404	39.800				87.030	-27.065	-16.867	-21.536				-65.468	-151.826	-57.362	-54.111				-75.225
2	Infrastructure renewals expenditure (gross)	£m	3	13.693	34.784	29.986				78.463	14.095	25.393	32.142				71.630	0.402	-9.391	2.156				-6.833	2.854	-36.981	6.707				-9.539
3	Capital expenditure - quality enhancement programme	£m	3	13.585	17.980	9.806				41.371	11.966	12.521	12.137				36.624	-1.620	-5.459	2.332				-4.746	-13.535	-43.595	19.211				-12.960
4	Capital expenditure - customer service	£m	3	12.415	16.739	16.590				45.744	9.795	14.295	22.802				46.893	-2.620	-2.443	6.213				1.149	-26.751	-17.092	27.246				2.451
5	Capital expenditure - supply demand balance	£m	3	14.718	16.908	30.968				62.594	9.933	18.269	23.013				51.215	-4.785	1.362	-7.956				-11.379	-48.171	7.453	-34.572				-22.219
6	Gross capital expenditure - water service	£m	3	99.303	132.680	148.687				380.669	63.615	99.882	129.895				293.392	-35.688	-32.797	-18.792				-87.277	-56.099	-32.836	-14.467				-29.748
B	**Sewerage Service**																														
7	Non-infrastructure maintenance (gross of grants and contributions)	£m	3	48.572	67.083	71.291				186.946	37.639	61.783	76.584				176.006	-10.933	-5.300	5.293				-10.940	-29.046	-8.579	6.911				-6.216
8	Infrastructure renewals expenditure (gross)	£m	3	13.469	23.775	28.298				65.542	12.020	24.022	25.661				61.703	-1.449	0.247	-2.637				-3.839	-12.055	1.027	-10.275				-6.222
9	Capital expenditure - quality enhancement programme	£m	3	29.134	38.669	46.323				114.126	32.718	45.388	79.093				157.199	3.583	6.720	32.769				43.072	10.952	14.805	41.432				27.400
10	Capital expenditure - customer service	£m	3	16.753	13.241	13.435				43.428	20.593	28.413	32.150				81.156	3.841	15.172	18.715				37.728	18.649	53.398	58.213				46.488
11	Capital expenditure - supply demand balance	£m	3	21.579	20.422	33.513				75.514	22.196	31.357	55.159				108.712	0.617	10.935	21.646				33.198	2.782	34.872	39.243				30.538
12	Gross capital expenditure - sewerage service	£m	3	129.507	163.190	192.860				485.557	125.167	190.963	268.647				584.777	-4.340	27.773	75.787				99.220	-3.468	14.544	28.211				16.967
C	**Gross capital expenditure total**																														
13	Gross capital expenditure total	£m	3	228.810	295.870	341.547				866.226	188.782	290.846	398.542				878.169	-40.028	-5.024	56.995				11.943	-21.203	-1.727	14.301				1.360
D	**CAPITAL CONTRIBUTIONS NET OF DEFERRED CREDITS**																														
14	Capital contributions for new connections	£m	3	13.719	0.000	0.000				13.719	4.979	5.623	6.040				16.642	-8.740	5.623	6.040				2.923	-175.543	100.000	100.000				17.562
15	Other capital contributions	£m	3	0.353	0.000	0.000				0.353	8.623	9.516	9.903				28.041	8.270	9.516	9.903				27.688	95.906	100.000	100.000				98.741
16	Total capital contributions net of deferred credits	£m	3	14.072	0.000	0.000				14.072	13.601	15.138	15.943				44.683	-0.471	15.138	15.943				30.611	-3.460	100.000	100.000				68.507
E	**TOTAL CAPITAL EXPENDITURE (NET)**																														
17	Total capital expenditure (net)	£m	3	214.738	295.870	341.547				852.154	175.177	275.707	382.598				833.482	-39.557	-20.163	41.052				-18.668	-22.581	-7.313	0.000				-2.240

Table 36a – Capital Investment – Expenditure comparison by service and purpose

Refer to Chapter 40 for detailed commentary on this table. There are no reconciling items to report.

NORTHERN IRELAND WATER LIMITED - ANNUAL INFORMATION RETURN

ANNUAL INFORMATION RETURN - TABLE 37 FINANCIAL MEASURES
CAPITAL INVESTMENT - CAPITAL GRANTS AND CONTRIBUTIONS

	DESCRIPTION	UNITS	DP	1 2015-16	2 2016-17	3 2017-18	4 2018-19	5 2019-20	6 2020-21	7 2021-22	8 2022-23	9 2023-24	10 2024-25	11 2025-26	12 2026-27
A	**Water Service - Maintenance grants and contributions**														
1	MNI - grants and contributions.	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000			
2	Infrastructure renewals grants and contributions.	£m	3	0.203	0.067	0.078	0.146	0.101	0.052	0.345	0.007	0.007			
3	Total maintenance grants and contributions	£m	3	0.203	0.067	0.078	0.146	0.101	0.052	0.345	0.007	0.007			
B	**Water Service - Enhancement grants and contributions**														
4	Infrastructure charge receipts - new connections	£m	3	1.800	2.284	2.561	2.446	2.589	2.328	2.588	2.356	2.499			
5	Enhancement requisitions, grants and contributions	£m	3	2.553	4.038	3.339	4.575	3.722	3.140	3.750	3.643	2.902			
6	*Other categories of capital grants and contributions to be added by NI Water*	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000			
7	Total enhancement capital grants and contributions	£m	3	4.353	6.322	5.900	7.021	6.310	5.467	6.338	5.999	5.401			
C	**Water Service - Deferred credits**														
8	Capital grants and contributions transferred to deferred credits	£m	3	0.545	0.685	0.768	0.734	0.777	0.698	0.776	0.707	0.750			
D	**Sewerage Service - Maintenance grants and contributions**														
9	MNI - grants and contributions.	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000			
10	Infrastructure renewals grants and contributions.	£m	3	0.000	0.000	0.014	0.003	0.010	0.102	0.008	0.001	0.018			
11	Total maintenance grants and contributions	£m	3	0.000	0.000	0.014	0.003	0.010	0.102	0.008	0.001	0.018			
E	**Sewerage Service - Enhancement grants and contributions**														
12	Infrastructure charge receipts - new connections	£m	3	1.515	1.997	2.280	2.065	2.269	1.988	2.213	2.048	2.147			
13	Enhancement requisitions, grants and contributions	£m	3	1.914	3.164	5.737	4.770	17.279	6.787	5.168	4.726	4.405			
14	*Other categories of capital grants and contributions to be added by NI Water*	£m	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000			
15	Total enhancement capital grants and contributions	£m	3	3.429	5.161	8.017	6.835	19.548	8.776	7.381	6.774	6.553			
F	**Sewerage Service - Deferred credits**														
16	Capital grants and contributions transferred to deferred credits	£m	3	0.454	0.599	0.684	0.620	0.681	0.597	0.664	0.614	0.644			
G	**Totals for the Water and Sewerage Services**														
17	Total enhancement capital grants and contributions	£m	3	7.985	11.550	14.009	14.005	25.970	14.396	14.072	12.781	11.978			
18	Total capital grants and contributions transferred to deferred credit	£m	3	0.999	1.284	1.452	1.354	1.457	1.295	1.440	1.321	1.394			

Table 37 – Capital Investment - Capital Grants and Contributions

Line 1 – Water service MNI – grants and contributions

Nil for 2023-24.

Line 2 – Water service maintenance grants and contributions

This line shows £0.007m and represents contributions from developers towards the cost of watermains diversions.

Line 4 – Water service infrastructure charge receipts - new connections

This line shows £2.499m and represents the receipts from developers for water infrastructure charges. This is stated gross prior to accounting for the element that is deemed to contribute to non-infrastructure expenditure.

Line 5 – Water service enhancement requisitions, grants and contributions

This line can be summarised as follows:

New water connections	£ 2.902m
Water requisitions	£ 0.000m
Grants	£ 0.000m
Total Line 5	**£ 2.902m**

Line 6 – Water service other categories of capital grants and contributions

Nil for 2023-24.

Line 8 – Water service deferred credits

This line shows £0.750m and represents the element of the receipts from developers for water infrastructure charges that are deemed to contribute to non-infrastructure expenditure.

This is calculated as follows:
Line 4 £2.499m x 30% = £0.750m

The 30% used in this calculation is based on an estimate of the future capital expenditure that relates to non-infrastructure growth.

Line 9 – Sewerage service MNI – grants and contributions

Nil for 2023-24.

Line 10 – Sewerage service - maintenance grants and contributions

This line shows £0.018m and represents contributions from developers towards the cost of realignment of sewers.

Line 12 – Sewerage service - Infrastructure charge receipts - new connections

This line shows £2.147m and represents the receipts from developers for sewerage infrastructure charges. This is stated gross prior to accounting for the element that is deemed to contribute to non-infrastructure expenditure.

Line 13 – Sewerage service - enhancement requisitions, grants and contributions

This can be summarised as follows:

New sewerage connections	£ 1.457m
Sewerage requisitions	£ 1.881m
Sewers for adoption – application fees	£ 0.714m
Grants	£ 0.353m
Total Line 13	**£ 4.405m**

Line 14 – Sewerage service - other categories of capital grants and contributions

Nil for 2023-24.

Line 16 – Sewerage service deferred credits

This line shows £0.644m and represents the element of the receipts from developers for sewerage infrastructure charges that are deemed to contribute to non-infrastructure expenditure.

This is calculated as follows: Line 12 £2.147m x 30% = £0.644m

The 30% used in this calculation is based on an estimate of the future capital expenditure that relates to non-infrastructure growth.

Comparison of 2023-2024 to PC21*

The following table shows a comparison of the actual contributions for 2023-24 compared to PC21.

	2023-24 Actual £m	**2023-24 PC21 £m**	**2023-24 Variance £m**	**2023-24 Variance %**
Water				
Infrastructure – base	0.0	0.0	0.0	N/A
Infrastructure charges - gross	2.5	3.5	(1.0)	(28.6%)
Connections	2.9	3.9	(1.0)	(25.6%)
Requisitions	0.0	0.5	(0.5)	(100.0%)
Grants	0.0	0.0	0.0	N/A
Total	**5.4**	**7.9**	**(2.5)**	**(31.6%)**
Included in the gross Infrastructure charges above the non-infrastructure element - 30%	0.8	1.1	(0.3)	(27.3%)
Sewerage				
Infrastructure – base	0.0	0.0	0.0	N/A
Infrastructure charges – gross	2.1	2.7	(0.6)	(22.2%)
Connections	1.5	2.3	(0.8)	(34.8%)
Requisitions	1.9	1.5	0.4	26.7%
Sewers for adoption	0.7	1.5	(0.8)	(53.3%)
Grants	0.4	0.0	0.4	400.0%
Total	**6.6**	**8.0**	**(1.4)**	**(17.5%)**
Included in the gross Infrastructure charges above the non-infrastructure element - 30%	0.6	0.8	(0.2)	(25.0%)
Total contributions	**12.0**	**15.9**	**(3.9)**	**(24.5%)**
Which includes: *non-infrastructure contributions*	**1.4**	**1.9**	**(0.5)**	**(26.3%)**

**This table is rounded to one decimal place to reflect the presentation of these figures in the PC21 submission.*

Note: no base infrastructure contributions were assumed in PC21. The grants relate to STT & SWELL Interreg & no other grants were assumed.

NORTHERN IRELAND WATER LIMITED - ANNUAL INFORMATION RETURN

ANNUAL INFORMATION RETURN - TABLE 38 FINANCIAL MEASURES
CAPITAL INVESTMENT - ADDITIONAL OPEX FROM CAPEX

	DESCRIPTION	UNITS	DP	1 2018-19	2 2019-20	3 2020-21	4 2021-22	5 2022-23	6 2023-24	7 2024-25	8 2025-26	9 2026-27
A	**OPEX from CAPEX**											
1	Additional OPEX arising from Water Service projects	£m	3	0.029	0.000	-0.012	0.000	0.638	-0.991			
2	Additional OPEX arising from Sewerage Service projects	£m	3	0.065	-0.024	-0.171	-0.024	0.142	-0.180			
3	Total additional OPEX	£m	3	0.094	-0.024	-0.183	-0.024	0.780	-1.171			

Table 38 - Capital investment - additional opex from capex

A list of sites with CAR IDs is obtained and the Opex costs for 2022/23 are calculated for these sites through various reports.

The Opex from Capex costs have been calculated by taking the difference between the total 2023/24 costs and the 2022/23 costs.

Line 1 Additional OPEX arising from water service projects

Derg Treatability Improvements and WTW MCPA PEO were commissioned in 2022/23 with increased Opex costs of £0.4M in Chemicals continuing into 2023/24. Carmoney WTW, Drumaroad WTW and Altnahinch WTW Treatability Improvements were commissioned in 2023/24, however, the reduction in global energy prices from 2022/23 reduced total Opex costs year on year of £1.4M.

Line 2 - Additional OPEX arising from sewerage service projects

The total of the sewage pumping stations and the wastewater treatment works have been used to populate Line 2 in Table 38 and for 2023/24 there is a decrease of costs of £0.180M, mainly driven by the reduction in global energy prices year on year, despite several schemes being commissioned in 2023/24 including Derrycrin WWTW, Pomeroy WWTW and Mountfield WWTW.

Line 3 - Total additional OPEX

The total figure is a decrease of costs of £1.171M.

NORTHERN IRELAND WATER LIMITED - ANNUAL INFORMATION RETURN

ANNUAL INFORMATION RETURN - TABLE 40 CAPITAL INVESTMENT

CAPITAL INVESTMENT MONITORING RETURN - CIM

Sort Ref (1) SORT	CIM Submission Reference (2) CIM_Sub	Project ID Reference (3) PI_Project_ID	Project Name (4) PI_Project_Name	Parent Project ID (5)	Substitute Project ID (6)	Primary Asset Category (7) PI_Pri_Asset_Cat	PC21 Programme (8) PI_PC21_Prog	Regulatory Sign-Off Required (9) PI_Reg_Signoff	Baseline A1 Date (10) BLM_A1	Baseline Project Approval Date (11)	Baseline Start on Site Date (12) BLM_SoS	Baseline Beneficial Use Date (13) BLM_BU	Baseline Regulatory sign-off Date (14) BLM_RSO	Baseline Completion of Construction Date (15) BLM_CoC	Baseline End of Maintenance Period Date (16) BLM_EoMP	Baseline Service Allocation Water Infrastructure (17) BSSA_W%	Baseline Service Allocation Water Non-Infrastructure (18) BSSA_WN%	Baseline Service Allocation Sewerage Infrastructure (19) BSSA_S%	Baseline Service Allocation Sewerage Non-Infrastructure (20) BSSA_SN%
CALC			Total capital expenditure reported																
1	23_24 Q4	AM094	Corporate GIS Project			15: Genera	20z: Mana												
2	23_24 Q4	AM105	CPMR System Re-Platform			15: Genera	20c: Base/	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027		0	50	0	50
3	23_24 Q4	AM106	CPMR System Development & Integration			15: Genera	20c: Base/	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027		0	50	0	50
4	23_24 Q4	AM109	Estates Management PC21			15: Genera	20d: Estate	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027		0	50	0	50
5	23_24 Q4	AP066	LWWP - Carrick MBV			14: Sewera	20z: Mana	NA											
6	23_24 Q4	BC013	CBC Implementation			15: Genera	20h: IT Ba	NA											
7	23_24 Q4	BC017	Additional FME Licence and Server			15: Genera	20h: IT Ba	N/A											
8	23_24 Q4	BC018	Call Centre Resilience			15: Genera	20h: IT Ba	NA											
9	23_24 Q4	BC019	HVCH Text Receipt Solution			15: Genera	20f: Planni	NA											
10	23_24 Q4	BC020	CBC3 Implementation			15: Genera	20h: IT Ba	NA	01/04/2024	01/04/2024	01/08/2024	31/03/2025		31/03/2025		0	50	0	50
11	23_24 Q4	BC021	Click Licences for M&E & Water Supply			15: Genera	20z: Mana	NA											
12	23_24 Q4	BC022	Disputed Liability Journey Review			15: Genera	20z: Mana	NA											
13	23_24 Q4	BC023	Septic Tank WSS v1.1			15: Genera	18z: Ops c	NA											
14	23_24 Q4	BC024	Billing Customer Journey Review			15: Genera	20z: Mana	NA											
15	23_24 Q4	BE005	budget profile 12/13			15: Genera	20z: Mana	NA											
16	23_24 Q4	BE023	Performance Excellence			15: Genera	20f: Planni	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027		25	25	25	25
17	23_24 Q4	BE026	Water fountains (refill stations)			15: Genera	20g: Other	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2022		31/03/2022		100	0	0	0
18	23_24 Q4	BI305	Revision of Sewers for Adoption (N.I.)			14: Sewera	20a: PC15	NA											
19	23_24 Q4	BN042	North Wastewater PC15			09: Sewag	18z: Ops c	NA											
20	23_24 Q4	BN043	South Wastewater PC15			09: Sewag	18z: Ops c	NA											
21	23_24 Q4	BN044	West Wastewater PC15			09: Sewag	18z: Ops c	NA											
22	23_24 Q4	BN045	East Wastewater PC15			09: Sewag	18z: Ops c	NA											
23	23_24 Q4	BN046	Sludge Wastewater PC15			10: Sludge	18z: Ops c	NA											
24	23_24 Q4	BN047	MBR Panel replacement PC15			09: Sewag	18z: Ops c	NA											
25	23_24 Q4	BN049	Refurbishment / replacement / realignments PC15			07: Sewera	18z: Ops c	NA											
26	23_24 Q4	BN050	Refurbishment of buildings PC15			15: Genera	18z: Ops c	NA											
27	23_24 Q4	BN053	Scientific PC15			15: Genera	18z: Ops c	NA											
28	23_24 Q4	BN056	North Wastewater PC21			14: Sewera	18z: Ops c	NA											
29	23_24 Q4	BN057	South Wastewater PC21			14: Sewera	18z: Ops c	NA											
30	23_24 Q4	BN058	West Wastewater PC21			14: Sewera	18z: Ops c	NA											
31	23_24 Q4	BN059	East Wastewater PC21			14: Sewera	18z: Ops c	NA											
32	23_24 Q4	BN060	Sludge Wastewater PC21			14: Sewera	18z: Ops c	NA											
33	23_24 Q4	BN061	Scientific PC21			14: Sewera	18z: Ops c	NA											
34	23_24 Q4	BN064	Refurbishment / replacement / realignments PC21			14: Sewera	18z: Ops c	NA											
35	23_24 Q4	BN065	Refurbishment of buildings PC21			14: Sewera	18z: Ops c	NA											
36	23_24 Q4	BN066	Sewer inspection CCTV equipment			07: Sewera	18z: Ops c	NA											
37	23_24 Q4	BN067	WwPL Programme Trials			09: Sewag	18z: Ops c	NA											
38	23_24 Q4	BT027	HVCA3			15: Genera	20h: IT Ba	NA											
39	23_24 Q4	CA003	Water Bus			15: Genera	20g: Other	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027		0	50	0	50
40	23_24 Q4	CA004	Silent Valley Development			15: Genera	20g: Other	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027		0	50	0	50
41	23_24 Q4	CE004	SME support for Capital Efficiency Portfolio			15: Genera	20z: Mana	NA											
42	23_24 Q4	CE006	In-sourcing Network Modelling Into Strategic Client			15: Genera	20a: PC15	N/A											
43	23_24 Q4	CF116	Reactive Meter Maintenance PC15			03: Water	19z: Meter	NA											
44	23_24 Q4	CF117	Pro-active Meter Exchange PC15			03: Water	19z: Meter	NA											
45	23_24 Q4	CF120	Non-Domestic New Connections PC15			03: Water	19z: Meter	NA											
46	23_24 Q4	CF121	Unmeasured Non-household (UNHH) PC15			03: Water	19z: Meter	NA											
47	23_24 Q4	CF123	General Meter Purchase PC15			03: Water	19z: Meter	NA											
48	23_24 Q4	CF125	Non-domestic Meter Purchase PC15			03: Water	19z: Meter	NA											
49	23_24 Q4	CF127	Reactive Meter Maintenance PC21			06: Water	19z: Meter	NA											
50	23_24 Q4	CF128	Pro-active Meter Exchange PC21			06: Water	19z: Meter	NA											
51	23_24 Q4	CF131	Non-Domestic New Connections PC21			06: Water	19z: Meter	NA											
52	23_24 Q4	CF132	Unmeasured Non-household (UNHH) PC21			06: Water	19z: Meter	NA											
53	23_24 Q4	CF134	General Meter Purchase PC21			06: Water	19z: Meter	NA											
54	23_24 Q4	CF136	Non-domestic Meter Purchase PC21			06: Water	19z: Meter	NA											
55	23_24 Q4	CO001	Commercial Excellence			15: Genera	20z: Mana	NA											
56	23_24 Q4	CS022	M&B Project - BAU "mop up"			15: Genera	20a: PC15	NA											
57	23_24 Q4	CU001	1CEX1 Metering & Billing			15: Genera	20a: PC15	NA											
58	23_24 Q4	CU003	PC15 ICAT Delivery - Belfast Area			04: Service	20z: Mana	NA											
59	23_24 Q4	CU004	PC15 ICAT Delivery - Newry Area			06: Water	20z: Mana	NA											
60	23_24 Q4	CU006	PC15 ICAT Delivery - Ards / Bangor Area			04: Service	20z: Mana												
61	23_24 Q4	CU007	PC15 ICAT Delivery - Derry / Coleraine Area			04: Service	20z: Mana	NA											
62	23_24 Q4	CU011	Service Incentive Mechanism (SIM) Improvements			15: Genera	20z: Mana												
63	23_24 Q4	CU012	IVR			15: Genera	20z: Mana												
64	23_24 Q4	CU013	Self Service Web Enhancements			15: Genera	20z: Mana												
65	23_24 Q4	CU015	Digital Client Side Support			15: Genera	20a: PC15	NA								0	50	0	50
66	23_24 Q4	CU017	ESRI Network Schematics			15: Genera	20z: Mana	NA											
67	23_24 Q4	CU019	Digital Services			15: Genera	20a: PC15	NA								0	50	0	50
68	23_24 Q4	CU023	Robotic Process Automation (RPA) Proof of Value			15: Genera	20z: Mana												
69	23_24 Q4	CU024	Business Analytics SBRI funding			02: Water	20j: Energ	N/A											
70	23_24 Q4	CU025	Netbase upgrade			06: Water	20a: PC15	NA											
71	23_24 Q4	CU026	Contact Management			15: Genera	20f: Planni	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027		25	25	25	25
72	23_24 Q4	CU027	Digital Services Enhancements			15: Genera	20h: IT Ba	NA											
73	23_24 Q4	DS031	DSCT Mains to Housing West (TM) PC15			03: Water	10z: Ops C	NA											
74	23_24 Q4	DS032	DSCT Mains to Housing South (DC) PC15			03: Water	10z: Ops C	NA											
75	23_24 Q4	DS033	DSCT Mains to Housing East (NP) PC15			03: Water	10z: Ops C	NA											
76	23_24 Q4	DS036	DSCT CCTV Surveys for Sewer Adoptions PC15			07: Sewera	18z: Ops c	NA											
77	23_24 Q4	DS038	DSCT Remedial Works for Sewer Adoptions PC15			07: Sewera	18z: Ops c	NA											
78	23_24 Q4	DS040	DS Un-adopted Site Developments			12: In-line	18z: Ops c	NA											
79	23_24 Q4	DS044	Lead Pipe Replacement PC15			03: Water	10z: Ops C	NA											
80	23_24 Q4	DS046	Minor Distribution Developments PC15			03: Water	10z: Ops C	NA											
81	23_24 Q4	DS049	M2H North-West PC21			06: Water	10z: Ops C	NA											
82	23_24 Q4	DS050	M2H South-East PC21			06: Water	10z: Ops C	NA											
83	23_24 Q4	DS052	CCTV Surveys for Sewer Adoption PC21			07: Sewera	18z: Ops c	NA											
84	23_24 Q4	DS054	Remedial Works for Sewer Adoptions PC21			07: Sewera	18z: Ops c	NA											
85	23_24 Q4	DS056	Un-adopted Site Developments PC21			07: Sewera	18z: Ops c	NA											
86	23_24 Q4	DS058	Lead pipe replacement PC21			06: Water	10z: Ops C	NA											
87	23_24 Q4	DS060	Minor Distribution Developments PC21			06: Water	10z: Ops C	NA											
88	23_24 Q4	DS062	PC21 Development Solution Engineering Modelling Supp			07: Sewera	18z: Ops c	NA											
89	23_24 Q4	EP017	Electricity generation from wind power or alternative gree			09: Sewag	02c: Energ												
90	23_24 Q4	EP038	NIW Head Office & IOC facilities			14: Sewera	20f: Planni	NA											
91	23_24 Q4	EP052	CPMR imps PC15			11: Sludge	20z: Mana												
92	23_24 Q4	EP053	Estates management PC15			15: Genera	20d: Estate	N/A											
93	23_24 Q4	EP056	CALM Network Facility			06: Water	20z: Mana												
94	23_24 Q4	ER005	UKAS Accreditation of Trade Effluent Sampling			15: Genera	20z: Mana												
95	23_24 Q4	ER006	LIMS Server Upgrade PC15 2			15: Genera	20z: Mana												
96	23_24 Q4	ER007	Trade Effluent Sampling Equipment			14: Sewera	20z: Mana	N/A											
97	23_24 Q4	ER008	Fleet replacement of Isco Trade Effluent Sampling Machi			15: Genera	20z: Mana	N/A											
98	23_24 Q4	ER009	PC21 LIMS Upgrade 1			15: Genera	20c: Base/	NA	01/04/2023	01/04/2023	01/08/2023	31/03/2027		31/03/2027		0	0	0	100
99	23_24 Q4	ER010	PC21 LIMS Upgrade 2			15: Genera	20c: Base/	NA	01/04/2023	01/04/2023	01/08/2023	31/03/2027		31/03/2027		0	0	0	100
100	23_24 Q4	ER011	Renewal of Trade Effluent Sampling Machines			15: Genera	20c: Base/	NA											
101	23_24 Q4	ER012	Environmental Reg Replacement auto sampling machine			14: Sewera	20c: Base/	NA	01/04/2023	01/04/2023	01/08/2023	31/03/2027		31/03/2027		0	0	0	100
102	23_24 Q4	ER013	Repairs to Trade Effluent/RPS store at Westland			15: Genera	20z: Mana	NA											
103	23_24 Q4	ER014	Replacement Van Fridges for Trade Effluent			15: Genera	20g: Other	NA											
104	23_24 Q4	FR021	Migration of Oracle EBS & OBIEE to new OVM/Linux ha			15: Genera	20c: Base/	NA											
105	23_24 Q4	FR026	Oracle Upgrade			15: Genera	20c: Base/	NA											
106	23_24 Q4	FR027	19/20 Oracle Reactive Enhancements			15: Genera	20c: Base/	N/A											
107	23_24 Q4	FR028	Making Tax Digital for VAT			15: Genera	20z: Mana	NA											
108	23_24 Q4	FR029	Microsoft VM Upgrades			15: Genera	20a: PC15	NA											
109	23_24 Q4	FR032	20/21 Oracle Enhancements			15: Genera	20c: Base/	NA											
110	23_24 Q4	FR034	21/22 Oracle Reactive Enhancements			15: Genera	20c: Base/	NA											
111	23_24 Q4	FR035	Oracle Fujitsu Change Controls			15: Genera	20c: Base/	NA											
112	23_24 Q4	FR036	Cloud ERP Enhancements			15: Genera	20z: Mana	NA											
113	23_24 Q4	IT010	ICT – Telemetry Base Maintenance			15: Genera	20z: Mana	NA											
114	23_24 Q4	IT077	SCADA Services Provision			15: Genera	20c: Base/	N/A								0	49	0	51
115	23_24 Q4	IT099	Telemetry Outstation Refresh Project - Phase 2			15: Genera	20h: IT Ba	NA											
116	23_24 Q4	IT101	ICT Telemetry and Telecoms Base Maintenance			15: Genera	20z: Mana	NA											
117	23_24 Q4	IT102	MC2 XRM Pilot			15: Genera	20z: Mana	NA											
118	23_24 Q4	IT105	Mobile Phone Refresh 2018			15: Genera	20z: Mana	NA											
119	23_24 Q4	IT111	Cyber Resilience Programme			15: Genera	20i: Cyber	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027		1	49	1	49
120	23_24 Q4	IT112	Field Device Replacement 2019			15: Genera	20h: IT Ba	NA											
121	23_24 Q4	IT113	IT Ops Base Maintenance			15: Genera	20z: Mana	NA											
122	23_24 Q4	IT116	Telephony Modernisation			15: Genera	20z: Mana	NA											
123	23_24 Q4	IT117	Mobile Phones 2020			15: Genera	20h: IT Ba	NA											
124	23_24 Q4	IT118	MWM/CAR support contract post December 2020			15: Genera	20h: IT Ba	NA											
125	23_24 Q4	IT119	ICT Telemetry & Telecoms Base Maintenance 20/21			15: Genera	20z: Mana	NA											
126	23_24 Q4	IT125	CRC Call Metrics Platform			15: Genera	20z: Mana												
127	23_24 Q4	IT127	Enterprise Architect			15: Genera	20h: IT Ba	NA											
128	23_24 Q4	IT129	IT Base Maintenance 21/22			15: Genera	20h: IT Ba	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027		0	50	0	50
129	23_24 Q4	IT130	Radio Workshop AV			15: Genera	20z: Mana	N/A											
130	23_24 Q4	IT131	ICT Telemetry & Telecoms Base Maintenance 21/22			15: Genera	20h: IT Ba	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027		1	49	1	49
131	23_24 Q4	IT133	MS Teams Huddle rooms			15: Genera	20g: Other	N/A											
132	23_24 Q4	IT134	Development of New Radio Tower & Telecom Site at Sli			15: Genera	20h: IT Ba	NA											
133	23_24 Q4	IT135	Return to work booking			15: Genera	20h: IT Ba	N/A											
134	23_24 Q4	IT138	Return to work Equipment			15: Genera	20h: IT Ba	NA											
135	23_24 Q4	IT140	22/23 Base Maintenance			15: Genera	20h: IT Ba	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027		0	50	0	50
136	23_24 Q4	IT141	Audio Visual			15: Genera	20h: IT Ba	NA											
137	23_24 Q4	IT142	ICT Telemetry & Telecoms Base Maintenance 22/23			15: Genera	20h: IT Ba	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027		1	49	1	49
138	23_24 Q4	IT145	End user device provision			15: Genera	20h: IT Ba	N/A											
139	23_24 Q4	IT149	ICT Telemetry & Telecoms Base Maintenance 23/24			15: Genera	20h: IT Ba	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027		1	49	1	49
140	23_24 Q4	IT150	IT150 ICT Telemetry & Telecoms Base Maintenance 24/2			15: Genera	20h: IT Ba	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027		1	49	1	49
141	23_24 Q4	IT151	ICT Telemetry and Telecoms Base Maintenance 25/26			15: Genera	20h: IT Ba	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027		1	49	1	49
142	23_24 Q4	IT152	ICT Telemetry and Telecoms Base Maintenance 26/27			15: Genera	20h: IT Ba	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027		1	49	1	49
143	23_24 Q4	IT153	IT Base Maintenance 23/24			15: Genera	20h: IT Ba	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027		0	50	0	50
144	23_24 Q4	IT154	Base Maintenance 24/25			15: Genera	20h: IT Ba	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027		0	50	0	50
145	23_24 Q4	IT155	Base Maintenance 25/26			15: Genera	20h: IT Ba	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027		0	50	0	50
146	23_24 Q4	IT156	Base Maintenance 2627			15: Genera	20h: IT Ba	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027		0	50	0	50
147	23_24 Q4	IT157	Mobiles Phones 2024			15: Genera	20h: IT Ba	NA											
148	23_24 Q4	IT158	Microsoft 365 Transition			15: Genera	20h: IT Ba	NA											
149	23_24 Q4	IT159	Telecoms Service Provider 4			15: Genera	20h: IT Ba	NA											
150	23_24 Q4	IT160	Cyber Recovery Vault			15: Genera	20h: IT Ba	NA											
151	23_24 Q4	IT161	CBC3- ICT Client Side Support			15: Genera	20h: IT Ba	NA											
152	23_24 Q4	IT165	Cyber Resilience Programme Phase 2			15: Genera	20i: Cyber	NA											
153	23_24 Q4	IT167	MC4/MC5 Client Side Support			15: Genera	20h: IT Ba	NA											
154	23_24 Q4	IT168	Lab Instrument PC Refresh			15: Genera	20h: IT Ba	NA											
155	23_24 Q4	JA290	Killylane Dunore East Phase 1			03: Water	08z: Water	NA											
156	23_24 Q4	JA294	Linndara Crescent, Larne, Watermain Upgrade			03: Water	08z: Water	NA											
157	23_24 Q4	JA308	A6 Castledawson to Randalstown			03: Water	23b: Roads	NA											
158	23_24 Q4	JA310	WIIM Phase 2 Dunore East WP			03: Water	08z: Water	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027	26/09/2024	100	0	0	0
159	23_24 Q4	JA311	WIIM Phase 2 Dunore Point WP			03: Water	08z: Water	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027	26/09/2024	100	0	0	0
160	23_24 Q4	JA312	Dunore Point WTW Renewable Energy			06: Water	01c: Energ	NA											
161	23_24 Q4	JA313	Antrim North WIIM 2.1 Work Package			03: Water	08z: Water	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027		100	0	0	0
162	23_24 Q4	JA314	Antrim South WIIM 2.1 Work Package			03: Water	08z: Water	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027	31/10/2023	100	0	0	0
163	23_24 Q4	JA315	Belraugh WPS			05: Faciliti	01z: Base	NA							25/12/2024				
164	23_24 Q4	JA319	Dorisland Wtw treatability recommended improvements.			02: Water	04a: WTW	NA							06/11/2024	0	100	0	0
165	23_24 Q4	JA326	Stiles Way, Antrim, 560mm Strategic Watermain Mitigati			03: Water	23c: Trunk	NA	01/04/2021	01/04/2021	01/04/2022	31/03/2025		31/03/2025	18/10/2023	100	0	0	0
166	23_24 Q4	JA329	McCrae's Brae Whitehead Watermain Extension			03: Water	23a: New	NA											
167	23_24 Q4	JA330	Altnahinch Treatability Improvements			02: Water	04a: WTW	NA	01/04/2021	01/04/2021	01/04/2022	31/03/2023		31/03/2023	24/10/2024	0	100	0	0
168	23_24 Q4	JA331	Dungonnell Treatability Improvements			02: Water	04a: WTW	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2022		31/03/2022		0	100	0	0
169	23_24 Q4	JA335	DS33565 - Hightown Road, Glengormley Watermain Up			03: Water	08z: Water	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027		100	0	0	0
170	23_24 Q4	JA336	Troopers Lane Water Main Replacement			03: Water	08z: Water	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027		100	0	0	0
171	23_24 Q4	JA337	DS14120 - Watermain - Belmont Road Antrim			03: Water	08z: Water	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027		100	0	0	0
172	23_24 Q4	JA338	Altnahinch Pilot Plant Study			02: Water	04z: Water	NA											
173	23_24 Q4	JA339	Lismacloskey Road watermain Rehabilitation			03: Water	23z: Water	NA											
174	23_24 Q4	JA340	Regenerated WIIM WP 2022 D (Nuline)			03: Water	08z: Water	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027	14/02/2025	100	0	0	0
175	23_24 Q4	JA341	Ballinrees WTW Upgrade - Preferred Option Implementa			02: Water	04z: Water	NA							30/05/2025	0	100	0	0
176	23_24 Q4	JA342	Filter Media Trial Unit (Dunore Point)			02: Water	04z: Water	NA											
177	23_24 Q4	JA345	Whitepark Road Embankment Remedial Works			03: Water	08z: Water	NA											
178	23_24 Q4	JA346	Moyola Pilot Plant			02: Water	04z: Water	NA											
179	23_24 Q4	JA347	Replacement of Baffle Walls at Dunore CWB cell 1			04: Service	07a: SR Re	NA											
180	23_24 Q4	JB671	Glenlough Pumping Station & Pumping Main			03: Water	01z: Base	NA											
181	23_24 Q4	JB687	Cookstown Phase 2 Watermain Improvements			03: Water	08z: Water	NA											
182	23_24 Q4	JB688	Cookstown Phase 3 Watermain Improvements			03: Water	08z: Water	NA											
183	23_24 Q4	JB693	Carland to Cookstown Strategic Trunk Main			03: Water	05z: Water	NA											
184	23_24 Q4	JB694	Tully Rehab Work Packages.			03: Water	08z: Water	NA											
185	23_24 Q4	JB695	Buckna WPS Upgrade - Ballymena Flow Optimisation			05: Faciliti	01z: Base	NA											
186	23_24 Q4	JB706	A26 Dualling; Glarryford to A44 (Drones Road) Junction			03: Water	23b: Roads	NA											
187	23_24 Q4	JB709	Lough Fea CWB Capacity Increase			04: Service	06z: Servic	NA											
188	23_24 Q4	JB723	Moyola WTW to Mullaghaboy SR Trunk Main Replaceme			03: Water	23c: Trunk	NA											
189	23_24 Q4	JB725	WIIM Phase 2 Lough Fea WP			03: Water	08z: Water	NA											
190	23_24 Q4	JB726	WIIM Phase 2 Moyola Magherafelt WP			03: Water	08z: Water	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027		100	0	0	0
191	23_24 Q4	JB727	WIIM Phase 2 Altnahinch Bushmills WP			03: Water	08z: Water	NA											
192	23_24 Q4	JB735	Central Zone Resilience			01: Water	05z: Water	NA											
193	23_24 Q4	JB737	Falgotrevy Road, Maghera, Watermain Replacement			03: Water	08z: Water	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027		100	0	0	0
194	23_24 Q4	JB738	Parkmore Water Pumping Station Relocation			05: Faciliti	01z: Base	NA											
195	23_24 Q4	JB739	Central WRZ Resilience and Supply			03: Water	05z: Water	NA	01/04/2021	01/04/2021	01/04/2023	31/03/2026		31/03/2026		100	0	0	0
196	23_24 Q4	JB740	Moyola Mullaghboy Trunk Main			03: Water	23c: Trunk	NA	01/04/2021	01/04/2021	01/04/2022	31/03/2025		31/03/2025	30/01/2026	100	0	0	0
197	23_24 Q4	JB741	Tuftarney SR Inlet and Outlet Pipework Rationalisation			04: Service	07z: SR re	NA							28/06/2024				
198	23_24 Q4	JB742	Annie's Well Borehole Scheme			01: Water	03z: Water	NA											
199	23_24 Q4	JB743	Trunkmain High Tober			02: Water	05z: Water	NA	01/04/2023	01/04/2023	01/04/2024	31/03/2027		31/03/2027		100	0	0	0
200	23_24 Q4	JB744	Dungonnell WTW PC27 Improvements			02: Water	04a: WTW	NA											
201	23_24 Q4	JB745	Altnahinch WTW PC27 Improvements			02: Water	04a: WTW	NA											
202	23_24 Q4	JB746	Craig Park SR Inlet Main			03: Water	23c: Trunk	NA											
203	23_24 Q4	JC385	Monaclogh SR Capacity Extension			04: Service	06z: Servic	NA											
204	23_24 Q4	JC390	Rathlin Island Borehole Feasibility Study			01: Water	04a: WTW	NA							21/07/2025				
205	23_24 Q4	JC397	Kilraughts Road Ballymoney Water Main Replacement			03: Water	23z: Water	NA											
206	23_24 Q4	JC399	WIIM Phase 2 Ballinrees Limavady WP			03: Water	08z: Water	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027		100	0	0	0
207	23_24 Q4	JC400	WIIM Phase 2 Altnahinch Bushmills 2 WP			03: Water	08z: Water	NA											
208	23_24 Q4	JC401	Royal Portrush - Open 2019 Watermains			03: Water	23a: New	NA											
209	23_24 Q4	JC402	Friary Road, Armoy, Watermain Replacement			03: Water	23a: New	NA											
210	23_24 Q4	JC403	A54 Agivey Road, Kilrea			03: Water	23b: Roads	NA											
211	23_24 Q4	JC404	Gortycavan WPS to Sconce Hill SR Watermain			03: Water	23a: New	NA											
212	23_24 Q4	JC405	Regenerated WIIM WP 2022 C (BSG)			03: Water	08z: Water	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027	28/01/2025	100	0	0	0
213	23_24 Q4	JC406	Filter Media Trial Unit (Ballinrees Wtw)			15: Genera	20l: Innova	NA											
214	23_24 Q4	JC407	Windyhill Road Trunk Main Rehab			03: Water	23c: Trunk	NA											
215	23_24 Q4	JC408	Innovation Filter Efficiency			02: Water	20l: Innova	NA											
216	23_24 Q4	JF592	Granville Dungannon Invest NI Watermain Extension			03: Water	23a: New	NA											
217	23_24 Q4	JF593	Altmore Phase 2 Watermain Rehabilitation			03: Water	08z: Water	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027		100	0	0	0
218	23_24 Q4	JF597	Doochrock West SR Rehabilitation			04: Service	07a: SR Re	NA											
219	23_24 Q4	JF606	WIIM Phase 2 Clay Lake Keady WP			03: Water	08z: Water	NA											
220	23_24 Q4	JF607	Dorisland Impounding Reservior			02: Water	03z: Water	NA											
221	23_24 Q4	JF608	Craigavon WIIM 2.1 Work Package			03: Water	08z: Water	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027	30/05/2025	100	0	0	0
222	23_24 Q4	JF610	Southern Zone Resilience			01: Water	05z: Water	NA											
223	23_24 Q4	JF613	Stewartstown Road, Coalisland, Watermain Diversion			03: Water	23c: Trunk	NA											
224	23_24 Q4	JF615	CWT - Seagahan			02: Water	06z: Servic	NA	01/04/2021	01/04/2021	01/04/2023	31/03/2026		31/03/2026	19/11/2024	0	100	0	0
225	23_24 Q4	JF616	Seagahan Treatability Improvements			02: Water	04a: WTW	NA	01/04/2024	01/04/2024	01/04/2025	31/03/2027		31/03/2027	20/08/2025	0	100	0	0
226	23_24 Q4	JF617	Clay Lake Treatability Improvements			02: Water	04a: WTW	NA	01/04/2023	01/04/2023	01/04/2024	31/03/2026		31/03/2026	19/07/2028	0	100	0	0
227	23_24 Q4	JF619	Slaterock Watermain Scheme			03: Water	23z: Water	NA											
228	23_24 Q4	JF620	Dungannon Town/Castlehill SR Watermain			03: Water	23a: New	NA							20/05/2027				
229	23_24 Q4	JF621	Gortlenaghan and Shanmoy Groundwater Investigations			06: Water	03z: Water	NA											
230	23_24 Q4	JF622	Clay Lake Wtw- LG Sonic Algae Control Unit			02: Water	20l: Innova	NA											
231	23_24 Q4	JF623	Fofanny to Alt Trunk Main Phase 2			03: Water	23c: Trunk	NA											
232	23_24 Q4	JG035	Ballydougan to Newry Main Link Reinforcement			03: Water	05z: Water	NA											
233	23_24 Q4	JG036	Castor Bay to Dungannon Strategic Trunk Mains			03: Water	05z: Water	NA											
234	23_24 Q4	JG087	Castor Bay WTW to Ballydougan SR Upgrade			03: Water	05z: Water	NA							17/09/2027				
235	23_24 Q4	JG090	Castor Bay to Ballydougan Trunk Main			02: Water	05z: Water	NA	01/04/2021	01/04/2021	01/04/2022	31/03/2025		31/03/2025		80	20	0	0
236	23_24 Q4	JG091	Castor Bay Outage			02: Water	05z: Water	NA	01/04/2022	01/04/2022	01/04/2024	31/03/2027		31/03/2027	05/06/2029	100	0	0	0
237	23_24 Q4	JG092	Regenerated WIIM WP 2022 B (Campbells)			03: Water	08z: Water	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027	06/12/2024	100	0	0	0
238	23_24 Q4	JG093	Castor Bay to Forked Bridge WPM Maintenance			03: Water	23c: Trunk	NA							11/04/2024				
239	23_24 Q4	JG094	Filter Media Trial Unit (Castor Bay Wtw)			15: Genera	20l: Innova	NA											
240	23_24 Q4	JG095	Castor Bay Pilot Plant Treatability			02: Water	04z: Water	NA											
241	23_24 Q4	JG097	Castor Bay Raw Water Intake PC 21 Project			02: Water	04a: WTW	NA											
242	23_24 Q4	JH002	Drumaroad Strangford WIIM Regen2 Workpackage			03: Water	08z: Water	NA							20/08/2027				
243	23_24 Q4	JH003	Raw Water Network Review to Prioritise Targeted Interv			01: Water	03z: Water	NA											
244	23_24 Q4	JI007	WTW Effluent Quality			02: Water	04a: WTW	NA											
245	23_24 Q4	JI010	SEMD Surveys PC10 Water			02: Water	04b: PSCE	NA											
246	23_24 Q4	JI020	Assessment of requirements at WTWs to operate effectiv			02: Water	01g: Freez	NA											
247	23_24 Q4	JI023	A5 Western Transport Corridor			03: Water	23z: Water	NA											

Sort (1)	CAPEX 2018-19 £m (59)	CAPEX 2019-20 £m (60)	CAPEX 2020-21 £m (61)	CAPEX 2021-22 £m (62)	CAPEX 2022-23 £m (63)	CAPPA_Q% (71)	CAPPA_B% (72)	CAPPA_E% (73)	CAPPA_G% (74)	CAP_IRE_W% (75)	CAP_IRE_S% (76)	Nominated Output (77)	LWWP (Y/N) (78)	LWWP Catchment Delivery Plan (79)	PC21 TBD Project (Y/N) (80)	Baseline Submission Tranche (81)	Baseline Submission Date (82)	Current Actual or Projected Submission Date (83)	Determined Date (84)	DAP Reference (85)	IEM Reference (86)	Summary Programme Line Identifier (87)
CALC	129.673	134.779	155.689	224.674	294.886																	
1	0.091	0.115	0.094	-0.031	0.000	0	100	0	0	0	0				N					N/A	N/A	
2	0.000	0.000	0.000	0.000	0.000	0	0	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
3	0.000	0.000	0.000	0.043	0.057	0	60	40	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
4	0.000	0.000	0.000	0.146	0.188	0	100	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
5	0.006	0.003	0.004	0.000	0.000	0	100	0	0	0	100	13: PC21 LWWP			Y	Batch 4	31/03/2023	31/03/2023		N/A	N/A	
6	0.285	0.013	-0.001	0.001	0.000	0	0	100	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
7	0.000	0.000	0.006	0.000	0.000	0	0	100	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	
8	0.000	0.000	0.097	0.000	0.000	0	100	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
9	0.000	0.000	0.000	0.000	0.021	0	0	100	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
10	0.000	0.000	0.000	0.000	0.000	0	0	100	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
11	0.000	0.000	0.000	0.216	0.000	0	100	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
12	0.000	0.000	0.000	0.000	0.020	0	0	100	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
13	0.000	0.000	0.000	0.000	0.000	0	0	100	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
14	0.000	0.000	0.000	0.000	0.000	0	0	100	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
15	0.000	0.000	0.000	0.000	0.000	0	100	0	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
16	0.000	0.000	0.000	0.000	0.000	0	0	40	60	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
17	0.000	0.000	0.000	0.000	0.000	0	0	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
18	0.000	0.000	0.000	0.000	0.000	0	100	0	0	0	100	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
19	0.240	0.230	0.241	0.000	0.000	0	100	0	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	WW0000
20	0.169	0.167	0.166	0.000	0.000	0	100	0	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	WW0000
21	0.206	0.219	0.229	0.000	0.000	0	100	0	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	WW0000
22	0.182	0.162	0.233	-0.002	0.000	0	100	0	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	WW0000
23	0.099	0.110	0.092	0.000	0.000	0	100	0	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	WW0000
24	0.250	0.250	0.250	0.000	0.000	0	100	0	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	WW0000
25	2.768	3.039	3.118	0.000	0.000	0	100	0	0	0	100	01: PC15 Non-Nominated			N					N/A	N/A	WW0000
26	0.039	0.032	0.100	0.000	0.000	0	100	0	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	WW0000
27	0.026	0.025	0.026	0.000	0.000	0	100	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	WW0000
28	0.000	0.000	0.000	0.276	0.324	0	100	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	WW0000
29	0.000	0.000	0.000	0.225	0.275	0	100	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	WW0000
30	0.000	0.000	0.000	0.246	0.290	0	100	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	WW0000
31	0.000	0.000	0.000	0.248	0.290	0	100	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	WW0000
32	0.000	0.000	0.000	0.185	0.113	0	100	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	WW0000
33	0.000	0.000	0.000	0.078	0.050	0	100	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	WW0000
34	0.000	0.000	0.000	3.117	3.247	0	100	0	0	0	100	15: PC21 Non-Nominated			N					N/A	N/A	WW0000
35	0.000	0.000	0.000	0.065	0.049	0	100	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	WW0000
36	0.000	0.000	0.000	0.000	0.172	0	100	0	0	0	100	15: PC21 Non-Nominated			N					N/A	N/A	WW0000
37	0.000	0.000	0.000	0.000	0.000	0	0	100	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	WW0000
38	0.000	0.000	0.011	0.000	0.000	0	0	100	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
39	0.000	0.000	0.000	0.000	0.000	0	100	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
40	0.000	0.000	0.000	0.000	0.000	0	0	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
41	0.175	0.080	0.190	-0.006	0.000	0	51	49	0	13	13	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
42	0.377	0.079	0.000	0.002	0.000	15	12	12	61	6	6				N					N/A	N/A	
43	1.077	1.009	0.803	-0.013	0.000	0	100	0	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	CFC000
44	0.108	0.041	0.069	0.000	0.000	0	100	0	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	CFC000
45	0.007	0.019	0.014	0.000	0.000	0	0	0	100	0	0	01: PC15 Non-Nominated			N					N/A	N/A	CFC000
46	0.019	0.016	0.007	0.001	-0.003	0	100	0	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	CFC000
47	0.179	0.225	0.350	0.028	-0.001	0	100	0	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	CFC000
48	0.006	0.042	0.036	0.005	-0.004	0	100	0	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	CFC000
49	0.000	0.000	0.000	0.819	0.981	0	100	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	CFC000
50	0.000	0.000	0.000	0.111	0.269	0	100	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	ME0000
51	0.000	0.000	0.000	0.017	0.015	0	100	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	CFC000
52	0.000	0.000	0.000	0.014	0.010	0	100	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	CFC000
53	0.000	0.000	0.000	0.307	0.157	0	100	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	CFC000
54	0.000	0.000	0.000	0.040	0.105	0	100	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	CFC000
55	0.000	0.040	0.037	0.000	0.000	0	0	100	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
56	0.000	0.000	0.000	0.000	0.215	0	100	0	0	100	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
57	1.339	1.216	0.996	0.352	0.000	0	100	0	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
58	0.011	0.296	-0.031	-0.004	-0.001	0	71	29	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
59	0.000	0.756	0.001	-0.019	0.000	0	72	28	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
60	0.688	0.001	-0.016	0.000	0.000	0	73	27	0	0	0				N					N/A	N/A	
61	0.432	0.028	-0.029	0.000	0.000	0	73	27	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
62	0.011	0.000	0.000	0.000	-0.004	0	0	100	0	0	0				N					N/A	N/A	
63	0.053	0.000	0.000	-0.002	0.000	0	0	100	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	
64	0.026	0.000	0.000	-0.003	0.000	0	0	100	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	
65	0.301	0.065	0.203	0.029	0.000	0	0	100	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
66	0.032	0.000	0.000	0.000	0.000	0	0	100	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
67	0.000	0.162	1.243	0.753	0.794	0	0	100	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
68	0.040	0.034	0.000	-0.001	0.000	0	0	100	0	0	0				N					N/A	N/A	
69	0.000	0.142	-0.005	-0.002	0.000	50	0	50	0	0	0				N					N/A	N/A	
70	0.000	0.000	0.146	0.222	0.000	0	0	0	100	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
71	0.000	0.000	0.000	0.000	0.000	0	0	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
72	0.000	0.000	0.000	0.000	0.000	0	0	100	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
73	0.823	0.773	0.500	0.637	0.000	0	0	0	100	0	0	01: PC15 Non-Nominated			N					N/A	N/A	DSCTW0
74	0.825	0.754	0.424	0.628	0.000	0	0	0	100	0	0	01: PC15 Non-Nominated			N					N/A	N/A	DSCTW0
75	0.567	0.385	0.416	0.409	0.241	0	0	0	100	0	0	01: PC15 Non-Nominated			N					N/A	N/A	DSCTW0
76	0.054	0.067	0.041	-0.004	-0.015	0	0	0	100	0	0	01: PC15 Non-Nominated			N					N/A	N/A	DSCTS0
77	0.087	0.091	0.063	-0.041	-0.008	0	0	0	100	0	0	01: PC15 Non-Nominated			N					N/A	N/A	DSCTS0
78	0.065	0.217	0.289	-0.014	0.000	0	0	0	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	DSCTS0
79	0.000	0.205	0.241	-0.006	0.000	0	100	0	0	100	0	15: PC21 Non-Nominated			N					N/A	N/A	DSCTW0
80	0.000	0.091	0.143	0.003	0.000	0	100	0	0	100	0	15: PC21 Non-Nominated			N					N/A	N/A	DSCTW0
81	0.000	0.000	0.000	0.018	0.916	0	0	0	100	0	0	15: PC21 Non-Nominated			N					N/A	N/A	DSCTW0
82	0.000	0.000	0.000	0.032	0.985	0	0	0	100	0	0	15: PC21 Non-Nominated			N					N/A	N/A	DSCTW0
83	0.000	0.000	0.000	0.018	0.015	0	0	0	100	0	0	15: PC21 Non-Nominated			N					N/A	N/A	DSCTS0
84	0.000	0.000	0.000	0.031	0.018	0	0	0	100	0	0	15: PC21 Non-Nominated			N					N/A	N/A	DSCTW0
85	0.000	0.000	0.000	0.070	0.032	0	0	0	100	0	0	15: PC21 Non-Nominated			N					N/A	N/A	DSCTS0
86	0.000	0.000	0.000	0.294	0.321	0	100	0	0	100	0	15: PC21 Non-Nominated			N					N/A	N/A	DSCTW0
87	0.000	0.000	0.000	0.219	0.186	0	100	0	0	100	0	15: PC21 Non-Nominated			N					N/A	N/A	DSCTW0
88	0.000	0.000	0.000	0.000	0.089	0	0	25	75	0	0	15: PC21 Non-Nominated			N					N/A	N/A	DSCTS0
89	-0.011	0.005	-0.006	-0.002	0.000	0	0	100	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	
90	0.203	0.250	0.043	0.027	0.000	0	47	53	0	0	0				N					N/A	N/A	
91	0.040	0.063	0.090	-0.006	0.000	0	50	50	0	0	0				N					N/A	N/A	
92	0.210	0.187	0.123	-0.006	-0.009	0	100	0	0	0	0	03: Additional Output Proposed			N					N/A	N/A	
93	0.039	-0.002	-0.001	0.000	0.000	0	0	100	0	0	0				N					N/A	N/A	
94	0.000	0.012	0.004	0.000	0.000	0	0	100	0	0	0				N					N/A	N/A	
95	0.000	0.000	0.092	0.000	0.000	0	100	0	0	0	0				N					N/A	N/A	
96	0.000	0.000	0.025	0.000	0.000	0	100	0	0	0	0				N					N/A	N/A	
97	0.000	0.000	0.000	0.000	0.033	0	100	0	0	0	0				N					N/A	N/A	
98	0.000	0.000	0.000	0.000	0.000	100	0	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
99	0.000	0.000	0.000	0.000	0.000	0	0	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
100	0.000	0.000	0.000	0.000	0.000	0	0	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
101	0.000	0.000	0.000	0.000	0.000	0	100	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
102	0.000	0.000	0.000	0.000	0.000	0	100	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
103	0.000	0.000	0.000	0.000	0.000	0	100	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
104	0.150	0.000	0.000	-0.022	0.000	0	100	0	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
105	0.000	0.000	0.955	-0.007	0.000	0	100	0	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
106	0.000	0.050	0.000	-0.013	0.000	0	100	0	0	0	0				N					N/A	N/A	
107	0.000	0.320	-0.019	-0.091	-0.003	0	0	100	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
108	0.000	0.048	0.000	0.000	0.001	0	0	100	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
109	0.000	0.040	-0.001	0.000	0.000	0	0	100	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
110	0.000	0.000	0.000	0.045	0.000	0	100	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
111	0.000	0.000	0.000	0.000	0.076	0	50	0	50	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
112	0.000	0.000	0.000	0.000	0.000	0	0	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
113	-0.002	0.001	0.000	0.000	0.005	0	100	0	0	0	0	11: PC10			N					N/A	N/A	xxx98
114	0.057	0.057	0.057	0.057	0.000	0	49	51	0	0	0				N					N/A	N/A	
115	1.566	1.328	1.323	0.993	0.493	0	100	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
116	0.648	0.021	0.000	0.000	0.000	0	100	0	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
117	0.000	0.000	0.000	0.000	0.000	0	100	0	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
118	0.297	0.006	0.049	0.000	0.000	0	100	0	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
119	0.199	1.004	0.889	0.732	0.947	0	100	0	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
120	0.000	0.940	0.029	0.002	0.000	0	100	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
121	0.000	0.000	0.468	0.000	0.000	0	100	0	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
122	0.000	0.710	0.000	0.000	0.000	0	100	0	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
123	0.000	0.000	0.000	0.466	0.000	0	100	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
124	0.000	0.000	0.676	1.655	0.103	0	100	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xx999
125	0.000	0.000	0.982	0.000	0.010	0	100	0	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
126	0.000	0.000	0.262	0.000	0.000	0	50	0	50	0	0				N					N/A	N/A	
127	0.000	0.000	0.000	0.013	0.020	0	100	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
128	0.000	0.000	0.000	0.209	0.000	0	100	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
129	0.000	0.000	0.030	0.000	0.000	0	100	0	0	0	0				N					N/A	N/A	
130	0.000	0.000	0.000	0.900	0.000	0	100	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
131	0.000	0.000	0.048	0.000	0.000	0	100	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	
132	0.000	0.000	0.000	0.082	0.496	0	0	100	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
133	0.000	0.000	0.000	0.011	0.000	0	0	100	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	
134	0.000	0.000	0.000	0.049	0.001	0	100	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
135	0.000	0.000	0.000	0.000	0.613	0	100	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
136	0.000	0.000	0.000	0.000	0.000	0	50	50	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
137	0.000	0.000	0.000	0.000	0.995	0	100	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
138	0.000	0.000	0.000	0.233	0.000	0	100	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	
139	0.000	0.000	0.000	0.000	0.000	0	100	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
140	0.000	0.000	0.000	0.000	0.000	0	100	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
141	0.000	0.000	0.000	0.000	0.000	0	100	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
142	0.000	0.000	0.000	0.000	0.000	0	100	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
143	0.000	0.000	0.000	0.000	0.000	0	100	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
144	0.000	0.000	0.000	0.000	0.000	0	100	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
145	0.000	0.000	0.000	0.000	0.000	0	100	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
146	0.000	0.000	0.000	0.000	0.000	0	100	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
147	0.000	0.000	0.000	0.000	0.000	0	100	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
148	0.000	0.000	0.000	0.000	0.025	0	100	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
149	0.000	0.000	0.000	0.000	0.100	0	100	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
150	0.000	0.000	0.000	0.000	0.761	0	100	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
151	0.000	0.000	0.000	0.000	0.080	0	100	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
152	0.000	0.000	0.000	0.000	0.000	100	0	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
153	0.000	0.000	0.000	0.000	0.000	0	0	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
154	0.000	0.000	0.000	0.000	0.000	0	100	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
155	-0.060	-0.003	0.047	0.000	-0.079	10	46	0	44	45	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
156	0.000	0.000	0.007	0.000	0.000	0	100	0	0	0	100	09: PC13 Non Nominated			N					N/A	N/A	xxx98
157	0.196	0.096	0.064	0.000	0.000	0	69	0	31	41	28	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
158	0.720	1.822	1.318	0.137	0.000	57	43	0	0	43	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
159	1.332	0.090	0.001	0.000	0.000	62	38	0	0	38	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
160	0.592	0.000	-0.007	0.000	0.000	0	0	100	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
161	1.019	0.227	0.372	0.052	0.000	59	41	0	0	41	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
162	0.000	0.089	0.792	1.318	0.770	22	76	2	0	76	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
163	0.269	0.010	-0.026	0.000	0.035	0	100	0	0	7	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
164	0.000	0.000	0.265	0.162	0.386	0	86	14	0	0	0	10: PC21 Nominated			N					N/A	N/A	xxx98
165	0.000	0.016	0.101	0.385	2.081	0	100	0	0	100	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
166	0.000	0.021	0.086	-0.010	0.000	0	30	35	35	30	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
167	0.000	0.000	0.136	0.241	0.410	0	9	91	0	0	0	10: PC21 Nominated			N					N/A	N/A	xxx98
168	0.000	0.000	0.032	0.574	0.106	0	64	36	0	0	0	10: PC21 Nominated			N					N/A	N/A	xxx98
169	0.000	0.000	0.000	0.274	0.000	0	75	0	25	75	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
170	0.000	0.000	0.000	0.318	0.075	0	100	0	0	100	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
171	0.000	0.000	0.000	0.080	0.068	0	0	0	100	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
172	0.000	0.000	0.000	0.865	0.246	30	0	20	50	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
173	0.000	0.000	0.000	0.052	-0.010	100	0	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
174	0.000	0.000	0.000	0.000	0.550	26	63	0	11	63	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
175	0.000	0.000	0.000	0.000	2.680	0	100	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
176	0.000	0.000	0.000	0.000	0.060	100	0	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
177	0.000	0.000	0.000	0.000	0.000	0	100	0	0	100	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
178	0.000	0.000	0.000	0.000	0.000	0	30	20	50	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
179	0.000	0.000	0.000	0.000	0.000	100	0	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
180	0.005	0.000	-0.001	0.000	0.000	0	0	0	100	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
181	-0.024	0.007	0.000	0.000	-0.001	3	62	21	14	58	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
182	0.014	0.006	0.000	0.000	-0.017	0	69	25	6	66	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
183	-0.002	0.000	0.000	0.000	0.000	0	0	0	100	0	0	02: PC15 Nominated			N					N/A	N/A	xxx98
184	0.032	0.001	0.000	0.000	0.000	4	66	0	30	66	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
185	0.218	-0.003	-0.020	0.000	0.021	0	100	0	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
186	0.000	0.000	0.000	0.000	0.000	0	94	0	6	94	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
187	3.104	1.912	0.141	0.001	0.000	0	6	0	94	0	0	02: PC15 Nominated			N					N/A	N/A	xxx98
188	0.035	0.026	0.009	0.000	0.000	0	100	0	0	100	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
189	0.368	-0.008	0.042	0.000	-0.097	37	62	1	0	62	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
190	1.027	0.776	0.200	0.174	0.000	32	68	0	0	68	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
191	0.841	0.286	0.023	0.000	0.000	40	60	0	0	60	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
192	0.075	0.017	0.037	0.000	0.000	10	0	20	70	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
193	0.000	0.000	0.224	0.032	0.000	0	70	15	15	70	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
194	0.000	0.000	0.102	1.024	0.402	0	83	0	17	53	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
195	0.000	0.000	0.000	0.010	0.000	0	0	0	100	0	0	10: PC21 Nominated			N					N/A	N/A	xxx98
196	0.000	0.000	0.000	0.203	0.034	0	49	0	51	49	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
197	0.000	0.000	0.000	0.000	0.056	0	40	20	40	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
198	0.000	0.000	0.000	0.000	0.107	80	0	0	20	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
199	0.000	0.000	0.000	0.000	0.000	0	44	0	56	44	0	10: PC21 Nominated			N					N/A	N/A	xxx98
200	0.000	0.000	0.000	0.000	0.000	40	30	0	30	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
201	0.000	0.000	0.000	0.000	0.000	40	20	0	40	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
202	0.000	0.000	0.000	0.000	0.000	0	100	0	0	100	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
203	-0.008	-0.003	-0.001	0.000	0.000	0	6	0	94	0	0	04: Additional Output Agreed			N					N/A	N/A	xxx98
204	0.195	0.916	0.164	0.005	-0.101	0	14	86	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
205	-0.057	0.001	0.001	0.000	0.000	100	0	0	0	0	0	09: PC13 Non Nominated			N					N/A	N/A	xxx98
206	0.835	1.863	0.482	0.155	0.238	70	30	0	0	30	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
207	0.258	0.029	0.066	0.000	0.000	57	37	6	0	37	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
208	0.894	0.339	-0.103	0.000	0.015	0	20	49	31	20	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
209	0.133	0.031	0.007	0.000	0.000	0	75	25	0	75	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
210	0.000	0.012	0.004	0.000	0.000	0	100	0	0	100	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
211	0.000	0.055	0.773	0.123	0.000	0	100	0	0	100	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
212	0.000	0.000	0.000	0.000	0.982	15	84	0	1	84	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
213	0.000	0.000	0.000	0.000	0.060	100	0	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
214	0.000	0.000	0.000	0.000	0.016	0	100	0	0	100	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
215	0.000	0.000	0.000	0.000	0.000	60	20	20	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
216	-0.153	0.046	0.005	0.002	-0.004	0	79	0	21	65	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
217	-0.049	0.093	0.002	0.008	-0.010	32	22	37	9	22	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
218	0.000	0.000	0.000	0.000	0.000	0	100	0	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
219	0.284	0.127	0.068	0.000	0.000	17	83	0	0	83	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
220	0.003	0.606	0.337	0.000	0.000	0	100	0	0	100	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
221	0.911	1.210	1.846	1.787	1.231	30	70	0	0	70	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
222	0.065	0.020	0.029	0.000	0.000	10	0	20	70	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
223	0.000	0.001	0.047	-0.001	0.000	0	100	0	0	100	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
224	0.000	0.000	0.000	0.162	1.424	0	0	0	100	0	0	10: PC21 Nominated			N					N/A	N/A	xxx98
225	0.000	0.000	0.000	0.113	0.675	0	67	33	0	0	0	10: PC21 Nominated			N					N/A	N/A	xxx98
226	0.000	0.000	0.000	1.067	0.332	0	9	91	0	0	0	10: PC21 Nominated			N					N/A	N/A	xxx98
227	0.000	0.000	0.000	0.050	0.033	0	0	0	100	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
228	0.000	0.000	0.000	0.000	0.110	0	0	0	100	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
229	0.000	0.000	0.000	0.000	0.117	80	0	0	20	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
230	0.000	0.000	0.000	0.000	0.224	0	0	0	100	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
231	0.000	0.000	0.000	0.000	0.000	0	100	0	0	100	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
232	-0.001	0.000	0.005	0.000	0.000	0	4	1	95	0	0	02: PC15 Nominated			N					N/A	N/A	xxx98
233	0.049	0.096	0.018	0.032	0.000	0	33	0	67	27	0	11: PC10			N					N/A	N/A	xxx98
234	0.068	0.026	0.045	0.000	0.000	0	33	0	67	0	0	10: PC21 Nominated			N					N/A	N/A	xxx98
235	0.000	0.000	0.000	0.186	0.628	60	30	0	10	0	0	10: PC21 Nominated			N					N/A	N/A	xxx98
236	0.000	0.000	0.000	0.037	0.000	0	48	0	52	0	0	10: PC21 Nominated			N					N/A	N/A	xxx98
237	0.000	0.000	0.000	0.000	0.150	26	74	0	0	74	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
238	0.000	0.000	0.000	0.000	0.013	0	80	20	0	80	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
239	0.000	0.000	0.000	0.000	0.060	100	0	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
240	0.000	0.000	0.000	0.000	0.000	15	50	15	20	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
241	0.000	0.000	0.000	0.000	0.000	0	30	70	0	0	0	03: Additional Output Proposed			N					N/A	N/A	xxx98
242	0.000	0.000	0.000	0.000	0.000	6	94	0	0	94	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
243	0.000	0.000	0.000	0.000	0.000	0	90	0	10	90	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
244	-0.011	0.017	0.000	0.000	0.000	100	0	0	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
245	2.653	0.233	0.000	0.015	0.000	100	0	0	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
246	0.061	0.050	0.002	0.000	-0.023	0	100	0	0	0	0	02: PC15 Nominated			N					N/A	N/A	xxx98
247	-0.009	-0.007	0.000	0.000	0.030	0	100	0	0	90	10	01: PC15 Non-Nominated			N					N/A	N/A	xxx98

Sort Ref	CIM Submission Reference	Project ID Reference	Project Name	Parent Project ID	Substitute Project ID	Primary Asset Category	PC21 Programme	Regulatory Sign-Off Required	Baseline A1 Date	Baseline Project Approval Date	Baseline Start on Site Date	Baseline Beneficial Use Date	Baseline Regulatory sign-off Date	Baseline Completion of Construction Date	Baseline End of Maintenance Period Date	Baseline Service Allocation Water Infrastructure	Baseline Service Allocation Water Non-Infrastructure	Baseline Service Allocation Sewerage Infrastructure	Baseline Service Allocation Sewerage Non-Infrastructure	Baseline CAPEX 2013-14 £m	Baseline CAPEX 2014-15 £m	Baseline CAPEX 2015-16 £m	Baseline CAPEX 2016-17 £m	Baseline CAPEX 2017-18 £m	Baseline CAPEX 2018-19 £m	Baseline CAPEX 2019-20 £m	Baseline CAPEX 2020-21 £m	Baseline CAPEX 2021-22 £m	Baseline CAPEX 2022-23 £m	Baseline CAPEX 2023-24 £m	Baseline Purpose Allocation Quality	Baseline Purpose Allocation Base	Baseline Purpose Allocation ESL	Baseline Purpose Allocation Growth	Current Actual or Projected A1 Date	Current Actual or Projected Project Approval Date	Current Actual or Projected Start on Site Date	Current Actual or Projected Beneficial Use Date	Current Actual or Projected Regulatory sign-off Date	Current Actual or Projected Completion of Construction Date	Current Actual or Projected End of Maintenance Period Date	Current Actual or Projected Service Allocation Water Infrastructure	Current Actual or Projected Service Allocation Water Non-Infrastructure	Current Actual or Projected Service Allocation Sewerage Infrastructure	Current Actual or Projected Service Allocation Sewerage Non-Infrastructure	Current actual project capital expenditure for year to date	Current Actual or Projected CAPEX 2013-14 £m	Current Actual or Projected CAPEX 2014-15 £m	Current Actual or Projected CAPEX 2015-16 £m	Current Actual or Projected CAPEX 2016-17 £m	Current Actual or Projected CAPEX 2017-18 £m	Current Actual or Projected CAPEX 2018-19 £m	Current Actual or Projected CAPEX 2019-20 £m	Current Actual or Projected CAPEX 2020-21 £m	Current Actual or Projected CAPEX 2021-22 £m	Current Actual or Projected CAPEX 2022-23 £m	Current Actual or Projected Purpose Allocation Quality	Current Actual or Projected Purpose Allocation Base	Current Actual or Projected Purpose Allocation ESL	Current Actual or Projected Purpose Allocation Growth	Current Actual or Projected IRE Allocation Water	Current Actual or Projected IRE Allocation Sewerage	Nominated Output	LWWP (Y/N)	LWWP Catchment Delivery Plan	PC21 TBD Project (Y/N)	Baseline Submission Tranche	Baseline Submission Date	Current Actual or Projected Submission Date	Determined Date	DAP Reference	IEM Reference	Summary Programme Line Identifier
Block A - Project Identification									Block B - Baseline Milestone Dates							Block C - Baseline Service Cost Allocation (%)				Block D - Baseline Expenditure Profile (£m 2018-19 prices)											Block E - Baseline Purpose Allocation				Block F - Current Actual or Projected Milestone Dates							Block G - Current Actual or Projected Service Cost Allocation				Block H - Current Actual Projected Capital Expenditure Profile (£m money of the day)											Block I - Current Actual or Projected Purpose Allocation (%)				Block J - Current Actual or Projected IRE (%)		Block K - Nominated outputs (PC Period)	Block L - Living with Water Programme		Block M - PC21 To Be Determined Projects					Block N - Drainage Area Plan	Block O - Integrated Environmental Modelling	Block P - Summary Programme Line Identifier
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87
CALC			Total capital expenditure reported																	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	187.697	252.949	319.021																341.501	30.155	43.074	71.854	100.838	116.652	129.673	134.779	155.689	224.674	294.886																	
SORT	CIM_Sub	PI_Project_ID	PI_Project_Name	PI_PARENT_Project_ID	PI_SUBSTITUTE_Project_ID	PI_Pri_Asset_Cat	PI_PC21_Prog	PI_Reg_Signoff	BLM_A1	BLM_Project_Approval	BLM_SoS	BLM_BU	BLM_RSO	BLM_CoC	BLM_EoMP	BSA_WI%	BSA_WNI%	BSA_SI%	BSA_SNI%	BL_Capex_2013-14_£m	BL_Capex_2014-15_£m	BL_Capex_2015-16_£m	BL_Capex_2016-17_£m	BL_Capex_2017-18_£m	BL_Capex_2018-19_£m	BL_Capex_2019-20_£m	BL_Capex_2020-21_£m	BL_Capex_2021-22_£m	BL_Capex_2022-23_£m	BL_Capex_2023-24_£m	BLPA_Q%	BLPA_B%	BLPA_E%	BLPA_G%	CAM_A1	CAM_ProjectApproval	CAM_SoS	CAM_BU	CAM_RSO	CAM_CoC	CAM_EoMP	CASA_WI%	CASA_WNI%	CASA_SI%	CASA_SNI%	CAP_Capex_YTD_£m	CAP_Capex_2013-14_£m	CAP_Capex_2014-15_£m	CAP_Capex_2015-16_£m	CAP_Capex_2016-17_£m	CAP_Capex_2017-18_£m	CAP_Capex_2018-19_£m	CAP_Capex_2019-20_£m	CAP_Capex_2020-21_£m	CAP_Capex_2021-22_£m	CAP_Capex_2022-23_£m	CAPPA_Q%	CAPPA_B%	CAPPA_E%	CAPPA_G%	CAP_IRE_W%	CAP_IRE_S%	NOM_Output	LWWP_Marker	LWWP_CDP_ID	PC21_TBD_Marker	PC21_TBD_Sub_Tranche	PC21_TBD_BL_Sub_Date	PC21_TBD_CAP_Sub_Date	PC21_TBD_Det_Date	DAP_ID	IEM_ID	Summary_Prog_ID
248	23_24 Q4	JI024	MIMP West (Major Incident Mitigation Project West Regi			03: Water	08z: Water	NA																				0.000	0.000	0.000					16/10/2012	24/10/2012				21/07/2014		94	6	0	0	0.000	1.770	0.049	0.001	-0.046	-0.004	-0.086	0.007	0.031	0.000	0.000	0	66	1	33	66	0	08: PC13 Nominated			N					N/A	N/A	xxx98
249	23_24 Q4	JI025	MIMP South (Major Incident Mitigation Project South Reg			03: Water	08z: Water	NA																				0.000	0.000	0.000					05/12/2011	08/12/2011	07/09/2018	24/01/2014		25/09/2013		100	0	0	0	0.000	0.661	0.235	0.000	0.002	0.098	-0.017	0.034	0.000	0.000	-0.032	0	91	0	9	91	0	09: PC13 Non Nominated			N					N/A	N/A	xxx98
250	23_24 Q4	JI027	MIMP Central (Major Incident Mitigation Project Central F			03: Water	08z: Water	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027		100	0	0	0									0.046	0.008	0.000	33	52	3	12	15/10/2012	25/10/2012				27/10/2014		100	0	0	0	0.000	0.356	0.491	-0.001	0.000	-0.066	-0.210	0.113	0.100	0.050	0.000	0	99	0	1	99	0	08: PC13 Nominated			N					N/A	N/A	xxx98
251	23_24 Q4	JI028	MIMP East (Major Incident Mitigation Project East Regio			03: Water	08z: Water	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027		100	0	0	0									0.032	0.000	0.000	33	52	3	12	12/12/2012	20/12/2012				28/08/2014		100	0	0	0	-0.018	1.967	0.343	0.066	0.000	0.000	0.051	0.007	0.000	0.035	0.000	0	95	0	5	95	0	09: PC13 Non Nominated			N					N/A	N/A	xxx98
252	23_24 Q4	JI032	Water Treatment Sites - Water Regulation Compliance &			02: Water	01c: Energ	NA																				0.000	0.000	0.000					24/06/2014	17/07/2014						0	100	0	0	0.000	0.028	0.000	0.022	0.028	0.143	0.037	-0.003	0.001	0.000	-0.001	89	11	0	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
253	23_24 Q4	JI038	Service Reservoir Security Phase 1			04: Service	07c: SR er	NA							30/10/2024	0	100	0	0									0.078	0.000	0.000	97	3	0	0	13/03/2014	13/03/2014	01/09/2014	27/06/2024	27/06/2024	27/06/2024		0	100	0	0	0.001	0.082	0.446	0.492	1.356	0.984	0.299	0.108	0.047	0.076	0.050	97	3	0	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
254	23_24 Q4	JI046	WP134 High Priority Water Mains Ph1			03: Water	08z: Water	NA																				0.000	0.000	0.000					27/08/2013	29/08/2013	01/02/2013	31/08/2015		26/12/2014		100	0	0	0	-0.055	0.634	0.635	0.234	0.001	-0.007	0.022	-0.007	0.000	0.000	0.000	59	25	11	5	25	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
255	23_24 Q4	JI048	Appraisal of NIW infrastructure at Railways, DRD Road &			03: Water	23e: Water	NA																				0.000	0.000	0.000					22/05/2017	24/05/2017						80	0	20	0	0.000	0.018	0.012	0.493	1.697	1.403	1.232	1.094	-0.022	0.000	0.000	0	100	0	0	80	20	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
256	23_24 Q4	JI058	Recreational Sites Appraisals for Public Access			06: Water	03c: Catch	NA																				0.000	0.000	0.000					04/02/2016	05/02/2016						0	100	0	0	0.000	0.039	0.038	0.000	0.275	0.097	0.181	0.002	-0.001	0.000	0.000	0	100	0	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
257	23_24 Q4	JI067	Supply, installation and commissioning of Telemetry Sca			03: Water	08z: Water	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027		100	0	0	0									0.023	0.000	0.000	33	52	3	12	19/11/2013	29/11/2013						0	100	0	0	0.000	0.080	-0.026	0.001	0.029	-0.029	0.019	0.034	-0.016	0.025	0.000	0	100	0	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
258	23_24 Q4	JI074	Watermains Rehabilitation, New & Replacement Incorpo			03: Water	08z: Water	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027		100	0	0	0									0.036	0.000	0.000	33	52	3	12	26/02/2016	26/02/2016	15/03/2016	30/04/2021	30/04/2021	30/04/2021		94	6	0	0	-0.001	0.000	0.100	0.000	1.983	2.382	1.616	1.969	1.786	0.040	0.000	30	51	3	16	47	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
259	23_24 Q4	JI076	Replacement Watermains 2014/15 - Reactive, Bundle 2			03: Water	08z: Water	NA																				0.000	0.000	0.000					24/11/2014	27/11/2014	05/01/2015	03/08/2015		31/03/2016		100	0	0	0	-0.046	0.000	0.216	0.108	0.011	0.000	-0.051	0.028	0.092	0.000	0.000	44	56	0	0	56	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
260	23_24 Q4	JI080	PC15 Service Reservoir Sample Taps			04: Service	07b: Samp	NA																				0.000	0.000	0.000					29/04/2016	03/05/2016	01/04/2016	01/08/2019		31/03/2021	11/09/2020	0	100	0	0	-0.001	0.000	0.000	0.040	0.081	0.815	0.730	0.126	0.031	0.000	0.000	32	68	0	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
261	23_24 Q4	JI082	PC15 Lead Communication Pipe Replacement Programm			03: Water	23d: Lead	NA																				0.000	0.000	0.000					24/08/2015	24/08/2015	13/01/2020	06/10/2021	06/10/2021	06/10/2021		100	0	0	0	0.011	0.000	0.000	1.422	1.629	1.034	0.577	0.770	0.819	0.088	-0.008	100	0	0	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
262	23_24 Q4	JI087	PC15 Watermains Rehabilitation WP1 - Foffany/North Lis			03: Water	08z: Water	NA																				0.000	0.000	0.000					04/06/2015	16/06/2015	02/02/2015	22/01/2019				100	0	0	0	-0.041	0.000	0.087	1.775	0.455	-0.020	0.101	0.010	0.000	0.000	0.000	54	46	0	0	46	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
263	23_24 Q4	JI088	PC15 Watermains Rehabilitation WP 2: Forked Bridge D			03: Water	08z: Water	NA																				0.000	0.000	0.000					03/11/2015	05/11/2015	01/09/2015	09/10/2020		31/03/2016		100	0	0	0	0.000	0.000	0.000	0.696	1.000	0.137	0.390	0.461	-0.043	0.000	0.000	97	3	0	0	3	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
264	23_24 Q4	JI089	PC15 Watermains Rehabilitation WP 3: Killylane			03: Water	08z: Water	NA																				0.000	0.000	0.000					07/05/2015	12/05/2015	02/02/2015			30/04/2018		92	8	0	0	0.000	0.000	0.045	1.229	0.520	-0.102	-0.088	0.078	-0.052	0.000	-0.001	78	4	5	13	3	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
265	23_24 Q4	JI090	PC15 Watermains Rehabilitation WP 4: Ballymena Ph1			03: Water	08z: Water	NA																				0.000	0.000	0.000					19/06/2015	22/06/2015	04/02/2015	23/03/2017			25/06/2018	100	0	0	0	0.000	0.000	0.040	1.423	0.335	-0.197	-0.115	0.046	0.002	0.000	0.000	96	4	0	0	4	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
266	23_24 Q4	JI092	PC15 Watermains Rehabilitation WP 6: Dungonnell			03: Water	08z: Water	NA																				0.000	0.000	0.000					07/05/2015	12/05/2015	02/02/2015	22/01/2019				100	0	0	0	-0.022	0.000	0.080	1.685	0.176	0.005	0.053	0.017	0.000	0.000	0.000	86	14	0	0	14	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
267	23_24 Q4	JI093	PC15 Watermains Rehabilitation WP 7: Carrickfergus			03: Water	08z: Water	NA																				0.000	0.000	0.000					05/11/2015	05/11/2015	10/11/2015	31/12/2021	31/12/2021	31/12/2021		100	0	0	0	-0.001	0.000	0.000	0.588	1.607	0.556	0.182	0.291	0.151	0.000	0.000	66	34	0	0	34	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
268	23_24 Q4	JI094	PC15 Watermains Rehabilitation WP 8: Belfast South Ph			03: Water	08z: Water	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027		100	0	0	0									0.000	0.002	0.000	33	52	3	12	03/11/2015	05/11/2015				31/03/2016		86	14	0	0	-0.002	0.000	0.000	0.623	1.651	-0.105	-0.155	0.340	0.000	0.000	-0.229	73	22	5	0	13	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
269	23_24 Q4	JI104	PC15 Year 1 Base Maintenance - Chlorine Dosing Sites			04: Service	01z: Base	NA																				0.000	0.000	0.000					11/04/2016	18/04/2016	02/01/2017	29/11/2019				0	100	0	0	0.000	0.000	0.002	0.044	0.290	0.602	0.573	0.092	-0.004	0.003	0.000	10	90	0	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
270	23_24 Q4	JI106	SR ByPass Schemes Phase 2			04: Service	06z: Servic	NA																				0.000	0.000	0.000					22/01/2021	22/01/2021						0	100	0	0	0.000	0.000	0.000	0.035	0.009	0.183	0.081	0.004	0.001	0.000	0.000	0	0	100	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
271	23_24 Q4	JI109	Castor Bay Outage Feasibility Studies			03: Water	04z: Water	NA																				0.000	0.000	0.000												100	0	0	0	0.000	0.000	0.000	0.000	0.000	0.045	0.053	-0.008	0.010	0.000	0.000	0	0	0	100	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
272	23_24 Q4	JI130	Service Reservoir Condition Assessment PC15			04: Service	07a: SR R	NA																				0.000	0.000	0.000					27/03/2018	27/03/2018	02/04/2018	19/12/2023	19/12/2023			0	100	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.060	0.055	0.077	0.002	0.000	0	100	0	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
273	23_24 Q4	JI131	PPRAs for Rehab Work Packages PC15			03: Water	08z: Water	NA																				0.000	0.000	0.000					02/05/2018	04/06/2018						100	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.017	0.055	0.038	0.000	-0.006	0	100	0	0	100	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
274	23_24 Q4	JI132	Trunk / Strategic Main Investigation 2017-2018			03: Water	23c: Trunk	NA																				0.000	0.000	0.000					13/10/2017	24/10/2017						100	0	0	0	-0.001	0.000	0.000	0.000	0.000	0.240	0.079	0.008	0.098	0.000	0.000	0	100	0	0	100	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
275	23_24 Q4	JI137	CMP - Deterioration and Risk & Reliability Modelling for F			14: Sewera	20a: PC15	NA	14/06/2017	14/06/2017		31/03/2022		31/03/2022		0	0	100	0									0.129	0.000	0.000	0	0	100	0	14/06/2017	16/06/2017						50	0	50	0	-0.001	0.000	0.000	0.000	0.000	0.120	0.596	0.260	0.205	0.138	0.000	0	0	100	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
276	23_24 Q4	JI138	PC15 Year 4 SR (M&E mainly & Chlorine Gas assets) Ba			04: Service	01z: Base	NA																				0.000	0.000	0.000					17/12/2019	17/12/2019						0	100	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.070	0.008	-0.002	0.000	0.000	0	100	0	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
277	23_24 Q4	JI139	PC15 Year 4 WPS Base Maintenance			01: Water	01b: WPS	NA																				0.000	0.000	0.000					29/06/2018	03/08/2018						0	100	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.531	1.007	0.003	0.000	0.000	0	100	0	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
278	23_24 Q4	JI141	Trunk/Strategic Water Main Investigations PC15			03: Water	23c: Trunk	NA																				0.000	0.000	0.000					11/02/2019	13/02/2019						100	0	0	0	-0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.234	0.152	0.010	0.000	0	100	0	0	100	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
279	23_24 Q4	JI143	Clean Water Network Hydraulic Model Rebuilds and Ad -			06: Water	20a: PC15	NA																				0.000	0.000	0.000					01/05/2018	05/05/2018						100	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.353	0.427	0.051	0.000	-0.003	0	100	0	0	100	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
280	23_24 Q4	JI144	Professional Services Framework Watermains Network F			03: Water	08z: Water	NA																				0.000	0.000	0.000					20/09/2018	28/09/2018						100	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.060	0.045	0.055	0.001	0.000	20	50	0	30	50	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
281	23_24 Q4	JI147	SR Rehabilitation			04: Service	07a: SR R	NA																				0.000	0.000	0.000					01/04/2019	01/04/2019	12/08/2019	31/05/2022	31/05/2022	31/05/2022		0	100	0	0	-0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.334	0.638	0.469	0.031	0	100	0	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
282	23_24 Q4	JI149	Feasibility Study for using Groundwater Abstraction			06: Water	03z: Water	NA								100	0	0	0									0.174	0.000	0.000	80	0	0	20	29/11/2022	29/11/2022						0	100	0	0	-0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.120	0.330	0.190	0.000	0	0	100	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
283	23_24 Q4	JI151	Alpha Wtw Treatability Studies			02: Water	01f: Treati	NA																				0.000	0.000	0.000					03/11/2022	03/11/2022						0	100	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.120	-0.005	0.000	0.000	70	30	0	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
284	23_24 Q4	JI152	Clean Water Network Hydraulic Model Rebuilds and Ad I			06: Water	20a: PC15	NA	09/08/2019	09/08/2019		31/03/2022		31/03/2022		100	0	0	0									0.267	0.046	0.000	0	100	0	0	13/08/2019	13/08/2019	14/08/2019	27/05/2023	27/05/2023	27/05/2023		100	0	0	0	-0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.124	0.982	0.324	0.044	0	100	0	0	100	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
285	23_24 Q4	JI153	JI153 WTW year 5 and 6 Base Maintenance 19/21			02: Water	01a: WTW	NA																				0.000	0.000	0.000					14/01/2020	15/01/2020						0	100	0	0	-0.022	0.000	0.000	0.000	0.000	0.000	0.000	0.030	3.010	-0.111	0.000	0	100	0	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
286	23_24 Q4	JI156	WPS Base Maintenance Year 6 20/21			05: Faciliti	01b: WPS	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027		0	100	0	0									0.457	0.000	0.000	0	90	10	0	08/12/2020	08/12/2020						0	100	0	0	-0.015	0.000	0.000	0.000	0.000	0.000	0.000	0.063	0.354	0.502	0.000	0	50	50	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
287	23_24 Q4	JI157	Preparation of Initial Workpackages for PC21			03: Water	08z: Water	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027		100	0	0	0									0.109	0.121	0.000	33	52	3	12								100	0	0	0	0.180	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.120	0.120	0.120	31	51	5	13	51	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
288	23_24 Q4	JI158	Controlled Reservoirs Legislative Requirements			01: Water	03z: Water	NA																				0.000	0.000	0.000					28/10/2019	28/10/2019		23/03/2026	23/03/2026			100	0	0	0	0.125	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.030	0.120	0.223	0	73	27	0	73	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
289	23_24 Q4	JI159	Leakage Detection Resources			06: Water	23z: Water	NA																				0.000	0.000	0.000												100	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.085	0.252	0.003	0.000	0	100	0	0	100	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
290	23_24 Q4	JI160	Impounding Reservoirs Section 10 Inspection Outputs			01: Water	03z: Water	NA																				0.000	0.000	0.000					01/06/2021	01/06/2021	01/06/2021	30/06/2021	30/06/2021	30/06/2021		100	0	0	0	-0.015	0.000	0.000	0.000	0.000	0.000	0.000	0.012	1.161	0.067	0.000	0	100	0	0	100	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
291	23_24 Q4	JI161	Digital & Benchmarking Assessments			06: Water	20a: PC15	NA																				0.000	0.000	0.000												25	25	25	25	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.026	0.000	0.000	0	100	0	0	25	25	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
292	23_24 Q4	JI162	Planning for Solar Installations			06: Water	20j: Energ	NA	01/04/2022	01/04/2022	01/08/2022	31/03/2027		31/03/2027	04/06/2025	0	100	0	0									-0.069	1.070	1.085	0	0	100	0	14/11/2022	14/11/2022	01/03/2023	05/12/2023	05/12/2023	05/12/2023		0	100	0	0	1.117	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.180	0.036	0.595	0	0	100	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
293	23_24 Q4	JI163	Northern Ireland Drought Mitigation 2020			01: Water	03z: Water	NA								0	100	0	0									0.832	0.000	0.000	0	80	20	0	27/07/2020	27/07/2020	03/05/2021	29/09/2023	29/09/2023	29/09/2023		0	100	0	0	0.116	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.351	0.862	0.527	0	80	20	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
294	23_24 Q4	JI164	WTW Base Maintenance PC21 Year 1			02: Water	01a: WTW	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027		0	100	0	0									4.034	0.627	0.000	0	90	10	0	09/06/2021	09/06/2021						0	100	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.020	4.428	0.839	0	100	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
295	23_24 Q4	JI165	SR Rehab Programme PC21 Year 1			04: Service	07a: SR R	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027		0	100	0	0									1.283	0.000	0.000	0	100	0	0	05/01/2021	05/01/2021	11/08/2021	30/09/2022	30/09/2022	03/10/2022		0	100	0	0	-0.013	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.017	1.868	0.269	0	90	10	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
296	23_24 Q4	JI166	SR Rehab Programme PC21 Year 2			04: Service	07a: SR R	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027	23/12/2024	0	100	0	0									0.000	2.745	0.000	0	100	0	0	17/01/2022	17/01/2022	12/04/2022	30/09/2024	30/09/2024	30/09/2024		0	100	0	0	0.603	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.033	3.224	0	90	10	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
297	23_24 Q4	JI167	SR Rehab Programme PC21 Year 3			04: Service	07a: SR R	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027	22/11/2024	0	100	0	0									0.000	0.000	4.169	0	100	0	0	26/01/2023	26/01/2023	12/06/2023	05/07/2024	05/07/2024	05/07/2024		0	100	0	0	2.509	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010	0	90	10	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
298	23_24 Q4	JI168	SR Rehab Programme PC21 Year 4			04: Service	07a: SR R	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027	21/07/2025	0	100	0	0									0.000	0.000	0.000	0	100	0	0	13/02/2024	13/02/2024	01/04/2024	27/03/2025	27/03/2025	27/03/2025		0	100	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	90	10	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
299	23_24 Q4	JI169	SR Rehab Programme PC21 Year 5			04: Service	07a: SR R	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027	19/06/2026	0	100	0	0									0.000	0.000	0.000	0	100	0	0	30/01/2025	30/01/2025	10/04/2025	27/03/2026	27/03/2026	27/03/2026		0	100	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	90	10	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
300	23_24 Q4	JI170	SR Rehab Programme PC21 Year 6			04: Service	07a: SR R	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027	23/06/2027	0	100	0	0									0.000	0.000	0.000	0	100	0	0	29/01/2026	29/01/2026	09/04/2026	31/03/2027	31/03/2027	31/03/2027		0	100	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	90	10	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
301	23_24 Q4	JI171	SR Bypass Schemes			04: Service	07a: SR R	NA	01/04/2021	01/04/2021	01/04/2022	31/03/2023		31/03/2023	01/07/2024	0	100	0	0									0.000	0.025	0.473	0	61	0	39	13/01/2023	13/01/2023	15/05/2023	31/05/2024	31/05/2024	31/05/2024		28	72	0	0	1.201	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.028	0.149	0	72	0	28	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
302	23_24 Q4	JI172	WTW Base Maintenance PC21 Year 2			02: Water	01a: WTW	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027	07/10/2024	0	100	0	0									0.109	5.147	0.417	0	90	10	0	26/04/2022	26/04/2022						0	100	0	0	0.523	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.120	6.230	0	90	10	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
303	23_24 Q4	JI173	WTW Base Maintenance PC21 Year 3			02: Water	01a: WTW	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027	24/04/2025	0	100	0	0									0.000	0.000	7.559	0	90	10	0	30/05/2023	30/05/2023						0	100	0	0	6.486	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	90	10	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
304	23_24 Q4	JI174	WTW Base Maintenance PC21 Year 4			02: Water	01a: WTW	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027	23/04/2026	0	100	0	0									0.000	0.000	0.000	0	90	10	0	26/06/2024	26/06/2024						0	100	0	0	0.140	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	90	10	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
305	23_24 Q4	JI175	WTW Base Maintenance PC21 Year 5			02: Water	01a: WTW	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027	05/03/2027	0	100	0	0									0.000	0.000	0.000	0	90	10	0	09/06/2025	09/06/2025						0	100	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	90	10	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
306	23_24 Q4	JI176	WTW Base Maintenance PC21 Year 6			02: Water	01a: WTW	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027	28/10/2027	0	100	0	0									0.000	0.000	0.000	0	90	10	0	09/06/2026	09/06/2026						0	100	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	90	10	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
307	23_24 Q4	JI177	Clean Water Network Modelling 2021 to 2024			06: Water	08z: Water	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027	23/04/2025	100	0	0	0									0.785	0.939	0.923	0	0	65	35	23/11/2020	23/11/2020	01/12/2020	29/01/2025	29/01/2025	29/01/2025		100	0	0	0	1.283	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.145	0.756	1.330	0	80	13	7	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
308	23_24 Q4	JI179	Water PS Base Maintenance PC21 Year 1			01: Water	01b: WPS	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027	23/08/2024	0	100	0	0									0.711	0.000	0.000	0	90	10	0	15/07/2022	15/07/2022						0	100	0	0	1.387	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.021	0.410	1.600	19	56	20	5	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
309	23_24 Q4	JI180	Water PS Base Maintenance PC21 Year 2			05: Faciliti	01b: WPS	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027	14/05/2024	0	100	0	0									0.054	1.320	0.000	0	90	10	0	13/10/2022	13/10/2022						0	100	0	0	0.214	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.059	0.202	0	90	10	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
310	23_24 Q4	JI181	Water PS Base Maintenance PC21 Year 3			01: Water	01b: WPS	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027	14/10/2025	0	100	0	0									0.000	0.000	1.324	0	90	10	0	02/10/2023	02/10/2023						0	100	0	0	0.480	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.210	0	90	10	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
311	23_24 Q4	JI182	Water PS Base Maintenance PC21 Year 4			01: Water	01b: WPS	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027	22/06/2026	0	100	0	0									0.000	0.000	0.000	0	90	10	0	04/09/2024	04/09/2024						0	100	0	0	0.012	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	90	10	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
312	23_24 Q4	JI183	Water PS Base Maintenance PC21 Year 5			05: Faciliti	01b: WPS	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027	17/12/2026	0	100	0	0									0.000	0.000	0.000	0	90	10	0	22/05/2025	22/05/2025						0	100	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	90	10	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
313	23_24 Q4	JI184	Water PS Base Maintenance PC21 Year 6			05: Faciliti	01b: WPS	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027	18/06/2027	0	100	0	0									0.000	0.000	0.000	0	90	10	0	30/01/2026	30/01/2026						0	100	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	90	10	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
314	23_24 Q4	JI185	NIW Infrastructure Appraisals - Watermains			03: Water	23e: Water	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027	18/08/2026	100	0	0	0									0.139	0.138	0.320	0	100	0	0	24/11/2021	24/11/2021	13/06/2022	22/10/2027	22/10/2027	22/10/2027		100	0	0	0	1.249	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.071	0.905	0	100	0	0	100	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
315	23_24 Q4	JI186	Trunkmain Rehab PC21 Year 1			03: Water	23c: Trunk	NA																				0.000	0.000	0.000					21/04/2022	21/04/2022	22/04/2022	31/12/2021	31/12/2021	22/04/2022		100	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.004	0.000	0	50	10	40	50	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
316	23_24 Q4	JI192	Review of Water Resource and Supply Resilience Plan T			01: Water	03a: WR&	NA																				0.000	0.000	0.000					05/08/2020	06/08/2020						0	100	0	0	-0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.052	0.000	0.000	0	0	0	100	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
317	23_24 Q4	JI193	DG2 Register Refresh			06: Water	08z: Water	NA																				0.000	0.000	0.000					28/08/2020	28/08/2020	22/10/2020	01/05/2023	01/05/2023	01/05/2023		100	0	0	0	-0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.143	0.315	0.039	0	80	20	0	80	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
318	23_24 Q4	JI195	SCAMP			01: Water	03c: Catch	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027	13/03/2026	0	100	0	0									0.000	0.000	1.001	100	0	0	0	13/03/2023	13/03/2023		21/11/2025	21/11/2025			0	100	0	0	0.391	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	100	0	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
319	23_24 Q4	JI196	Service Reservoir Programme of Works - Control Panel I			04: Service	01z: Base	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027	02/09/2024	0	100	0	0									0.000	0.000	0.000	0	100	0	0	20/05/2022	20/05/2022	26/07/2022	30/08/2024	30/08/2024	30/08/2024		0	100	0	0	0.889	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.198	0.531	0	100	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
320	23_24 Q4	JI197	Chlorine Station Base Maintenance			02: Water	01z: Base	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027	20/02/2024	0	100	0	0									0.000	0.000	0.575	0	100	0	0	05/07/2021	05/07/2021						0	100	0	0	0.043	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.467	0.990	20	80	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
321	23_24 Q4	JI198	Chemical and Sludge Tanks - Water			01: Water	01z: Base	NA																				0.000	0.000	0.000					16/01/2025	16/01/2025	20/01/2026	14/04/2027	14/04/2027	14/04/2027		0	100	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010	-0.010	0	100	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
322	23_24 Q4	JI199	PSCEMD Base Maintenance and Audit Outputs			04: Service	01z: Base	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2026		31/03/2026	16/09/2027	0	100	0	0									0.000	0.049	2.809	0	72	28	0	03/08/2023	03/08/2023	10/06/2025	03/09/2026	03/09/2026	03/09/2026		0	100	0	0	0.284	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.947	1.001	0	86	14	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
323	23_24 Q4	JI200	Abstraction Monitoring			03: Water	03d: Abstra	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027	14/02/2028	0	100	0	0									0.283	0.576	0.561	96	4	0	0	08/05/2025	08/05/2025	03/03/2025	23/06/2027	23/06/2027	23/06/2027		0	100	0	0	0.016	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.007	0.027	100	0	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
324	23_24 Q4	JI201	Watermains New - Requisitions			03: Water	23a: New	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027		100	0	0	0									0.235	0.234	0.230	0	0	0	100								100	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	0	0	100	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
325	23_24 Q4	JI202	Watermains and Sewer Diversions for New Roads			07: Sewera	23b: Roads	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027		100	0	0	0									0.648	0.658	0.662	0	62	0	38								50	0	50	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	60	0	40	30	30	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
326	23_24 Q4	JI203	Watermains New - Lead Pipe Replacement Programme			03: Water	23d: Lead	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027	24/06/2025	100	0	0	0									1.056	1.053	1.035	100	0	0	0	09/06/2021	09/06/2021	31/08/2021	30/08/2024	30/08/2024	30/08/2024		100	0	0	0	2.034	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.804	1.131	100	0	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
327	23_24 Q4	JI204	Professional Services Framework Watermains Network			03: Water	08z: Water	NA																				0.000	0.000	0.000					26/11/2020	27/11/2020						100	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.080	-0.015	0.000	0	100	0	0	100	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
328	23_24 Q4	JI205	Clean Water Modelling 2024 to 2027			06: Water	08z: Water	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027		100	0	0	0									0.000	0.000	0.000	0	0	65	35	22/09/2023	22/09/2023	03/04/2024	12/04/2027	12/04/2027	12/04/2027		100	0	0	0	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	80	13	7	80	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
329	23_24 Q4	JI206	iCAT for IOC iSR Completion of PC15 Scope			04: Service	01z: Base	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027	22/06/2023	0	100	0	0									0.000	0.000	0.000	0	80	20	0	04/05/2021	04/05/2021	30/08/2021	01/09/2022	01/09/2022	01/09/2022		0	100	0	0	-0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.543	-0.004	0	80	20	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
330	23_24 Q4	JI207	iCAT for IOC Completion of Gravity iSR's			04: Service	01z: Base	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027	22/06/2023	0	100	0	0									0.000	0.000	0.000	0	80	20	0	05/05/2021	05/05/2021	23/11/2022	25/11/2022	25/11/2022	25/11/2022		0	100	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.245	-0.004	0	80	20	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
331	23_24 Q4	JI208	iCAT for IOC Installation of iWPS			05: Faciliti	01z: Base	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027	25/08/2027	0	100	0	0									0.000	0.000	0.000	0	80	20	0	12/01/2022	12/01/2022	29/03/2023	31/03/2027	31/03/2027	31/03/2027		0	100	0	0	1.119	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.009	0.747	0	80	20	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
332	23_24 Q4	JI210	Asset Standard for Cyber Resilience			15: Genera	20z: Mana	NA																				0.000	0.000	0.000												0	50	0	50	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.083	0.043	0.000	0	100	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
333	23_24 Q4	JI211	Smart Networks ITS Strategy 2021-2025			03: Water	09z: Leaka	NA	01/04/2021	01/04/2021	01/04/2022	31/03/2027		31/03/2027		100	0	0	0									0.324	0.662	1.016	0	0	100	0	19/12/2022	19/12/2022	22/01/2023	01/03/2024	01/03/2024	31/03/2025		100	0	0	0	0.019	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	41	0	59	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
334	23_24 Q4	JI212	Beltoy and Unagh Drought Alleviation Pumping Stations			05: Faciliti	05z: Water	NA							20/01/2025													0.000	0.000	0.000					23/09/2022	23/09/2022	06/10/2022	27/03/2024	27/03/2024	27/03/2024		37	63	0	0	0.800	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.100	1.009	0	0	0	100	0	0	10: PC21 Nominated			N					N/A	N/A	xxx98
335	23_24 Q4	JI214	Public Realm - Water			03: Water	23b: Roads	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027		100	0	0	0									0.018	0.018	0.018	0	70	0	30	19/04/2023	19/04/2023	08/08/2023	29/06/2028	29/06/2028	29/06/2028		100	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	90	10	0	90	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
336	23_24 Q4	JI215	AD - Asset Strategy - Water Asset Performance Modellin			06: Water	20g: Other	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027		76	24	0	0									0.319	0.510	0.502	0	100	0	0	02/04/2021	02/04/2021	30/04/2021	22/10/2024	22/10/2024	22/10/2024		100	0	0	0	0.386	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.368	0.358	0	100	0	0	100	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
337	23_24 Q4	JI216	All Reservoir Panel Engineer Inspections (IRs & SRs)			01: Water	03b: Impou	NA	01/04/2021	01/04/2021		31/03/2026		31/03/2026		100	0	0	0									0.167	0.460	0.449	0	60	40	0								100	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	100	0	0	100	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
338	23_24 Q4	JI218	AD - Further development of Deterioration and Risk & Re			06: Water	20a: PC15	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027	25/06/2025	0	50	0	50									0.098	0.168	0.236	0	80	20	0	04/07/2024	04/07/2024	03/03/2025	01/04/2025	01/04/2025	01/04/2025		100	0	0	0	0.060	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.040	0.000	0	100	0	0	100	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
339	23_24 Q4	JI219	Water Resource & Supply Resilience Plan			01: Water	03a: WR&	NA	01/04/2021	01/04/2021	01/04/2022	31/03/2025		31/03/2025	24/04/2025	0	100	0	0									0.032	0.202	0.198	0	0	0	100	04/10/2021	04/10/2021	04/10/2021	30/01/2025	30/01/2025	30/01/2025		0	100	0	0	0.138	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.259	0.410	0	0	0	100	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
340	23_24 Q4	JI220	PC27 Water Treatability optimisation pilot plant			02: Water	04a: WTW	NA								0	100	0	0									-0.087	-0.065	-0.064	75	0	0	25	18/02/2021	22/02/2021	03/03/2021	30/04/2021		30/04/2021		0	100	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.285	0.015	0.000	60	20	0	20	20	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
341	23_24 Q4	JI221	Controlled Reservoir Maintenance - IRs			04: Service	03b: Impou	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027	25/07/2025	100	0	0	0									0.935	1.156	1.202	0	86	14	0	11/03/2021	11/03/2021	02/09/2021	07/03/2025	07/03/2025	07/03/2025		0	100	0	0	2.460	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.291	1.863	0	89	0	11	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
342	23_24 Q4	JI222	Professional Services - PC21 Watermains Rehabilitation			03: Water	08z: Water	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027	27/03/2026	100	0	0	0									1.716	1.645	1.737	33	52	3	12	13/04/2021	13/04/2021		28/03/2025	28/03/2025			94	6	0	0	2.114	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.885	2.121	31	51	3	15	48	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
343	23_24 Q4	JI223	PftF Energy - Use Less Energy - Ground Water Abstracti			06: Water	20j: Energ	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2025		31/03/2025	28/06/2024	100	0	0	0									0.573	0.581	0.589	0	0	100	0	26/04/2021	26/04/2021	15/11/2021	24/02/2023	24/02/2023	24/02/2023		0	100	0	0	0.108	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.503	0.669	0	0	100	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
344	23_24 Q4	JI225	Backsyphonage at WTW			02: Water	04z: Water	NA	01/04/2023	01/04/2023		31/03/2027		31/03/2027	24/08/2026	0	100	0	0									0.000	0.000	0.000	81	19	0	0	03/07/2023	03/07/2023	17/07/2024	28/08/2025	28/08/2025	28/08/2025		0	100	0	0	0.458	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.110	0.004	81	19	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
345	23_24 Q4	JI226	Pump Storage Opportunities			06: Water	01z: Base	NA																				0.000	0.000	0.000					05/10/2022	05/10/2022	13/10/2022	13/10/2022	13/10/2022	13/10/2022		0	100	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.030	0.000	0	100	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
346	23_24 Q4	JI227	PC21 DG2 Work Packages			03: Water	08z: Water	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027	23/11/2029	100	0	0	0									0.953	1.496	1.552	0	10	90	0	24/03/2022	24/03/2022	11/05/2022	28/07/2028	28/07/2028	28/07/2028		100	0	0	0	1.383	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.200	0.808	0	0	100	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
347	23_24 Q4	JI228	PC21 Leakage Workpackage 1			03: Water	08z: Water	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027		100	0	0	0									0.127	1.251	0.513	33	52	3	12	16/03/2022	16/03/2022	03/10/2022	09/11/2023	09/11/2023	09/11/2023		100	0	0	0	0.497	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.140	1.944	0	100	0	0	100	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
348	23_24 Q4	JI229	WIIM Western Superworkpackage			03: Water	08z: Water	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027	31/08/2026	100	0	0	0									0.848	1.295	1.425	33	52	3	12	24/11/2021	24/11/2021	15/11/2021	30/05/2025	30/05/2025	30/05/2025		100	0	0	0	1.198	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.931	1.349	4	96	0	0	96	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
349	23_24 Q4	JI230	OSEC Plant Replacement			02: Water	01a: WTW	NA							02/09/2024													0.000	0.000	0.000					02/02/2022	02/02/2022	09/02/2022	22/05/2024	22/05/2024	22/05/2024		0	100	0	0	0.091	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.553	1.892	0	100	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
350	23_24 Q4	JI263	2021 Drought Mitigation Project			01: Water	03z: Water	NA																				0.000	0.000	0.000					25/03/2022	25/03/2022	11/04/2022	17/05/2022	17/05/2022	17/05/2022		100	0	0	0	-0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.171	0.043	0	10	0	90	10	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
351	23_24 Q4	JI264	BIM 3D Model Scan ADH Alignment POC			15: Genera	20g: Other	NA																				0.000	0.000	0.000												50	50	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.011	0	100	0	0	50	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
352	23_24 Q4	JI265	Water Efficiency and Innovation Support Services			15: Genera	04a: WTW	NA							25/05/2026													0.000	0.000	0.000					29/04/2024	29/04/2024	06/03/2025	27/02/2026	27/02/2026	27/02/2026		0	100	0	0	0.064	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.120	0.196	100	0	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
353	23_24 Q4	JI266	High Demand - External Modelling			06: Water	20z: Mana	NA																				0.000	0.000	0.000												100	0	0	0	-0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.024	0.010	100	0	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
354	23_24 Q4	JI268	PC21 WIIM Super work package 3- Central			03: Water	08z: Water	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027	01/06/2026	100	0	0	0									0.000	0.650	1.145	33	52	3	12	10/08/2022	10/08/2022	09/01/2023	21/01/2026	21/01/2026	31/12/2025		100	0	0	0	2.485	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.807	9	80	11	0	80	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
355	23_24 Q4	JI270	Leakage Workpackage 2			03: Water	08z: Water	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027	29/01/2025	100	0	0	0									0.000	1.078	0.265	33	52	3	12	01/07/2022	01/07/2022	22/08/2022	30/08/2024	30/08/2024	30/08/2024		100	0	0	0	0.152	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.265	0	100	0	0	100	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
356	23_24 Q4	JI271	PC21 - NIW Historic Estates			06: Water	20d: Estate	NA	01/04/2021	01/04/2021	01/04/2022	31/03/2025		31/03/2025	30/03/2028	0	50	0	50									0.000	0.081	0.626	0	100	0	0	16/09/2022	16/09/2022	05/10/2022	31/03/2027	31/03/2027	31/03/2027		0	100	0	0	0.559	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.590	0	100	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
357	23_24 Q4	JI272	Service Reservoir Inspection Programme – Electro Scan			04: Service	07z: SR re	NA							26/08/2024													0.000	0.000	0.000					20/01/2022	20/01/2022	21/03/2023	01/05/2024	01/05/2024	01/05/2024		0	100	0	0	0.040	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.040	0.244	0	100	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
358	23_24 Q4	JI273	Water Resource Demand Management Activities			06: Water	20g: Other	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027		100	0	0	0									0.073	0.072	0.071	0	0	0	100								0	100	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	0	0	100	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
359	23_24 Q4	JI275	WTW Treatability Studies to Inform PC27			02: Water	01f: Treati	NA	01/04/2022	01/04/2022	01/04/2023	31/03/2025		31/03/2025		0	100	0	0									0.000	0.023	0.217	0	100	0	0								0	100	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	100	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
360	23_24 Q4	JI276	WTW EMS			02: Water	04a: WTW	NA	01/04/2022	01/04/2022	01/04/2023	31/03/2026		31/03/2026	22/04/2026	0	100	0	0									0.000	0.041	0.307	0	59	41	0	08/11/2024	08/11/2024	30/01/2025	30/03/2026	30/03/2026	30/03/2026		0	100	0	0	0.110	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	59	41	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
361	23_24 Q4	JI277	DWD Recast & Emerging Issues Study			04: Service	04z: Water	NA	01/04/2024	01/04/2024	01/04/2025	31/03/2026		31/03/2026		0	100	0	0									0.000	0.000	0.000	100	0	0	0	02/01/2025	02/01/2025	14/08/2025	12/03/2026	12/03/2026	12/03/2026		0	100	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	100	0	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
362	23_24 Q4	JI278	High Priority Schemes WP 2022			03: Water	08z: Water	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027	20/02/2025	100	0	0	0									0.000	0.081	0.074	33	52	3	12	03/10/2023	03/10/2023	07/12/2023	30/08/2024	30/08/2024	30/08/2024		100	0	0	0	0.153	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	5	95	0	0	95	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
363	23_24 Q4	JI279	PC21 Leakage Workpackage 3			03: Water	08z: Water	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027	29/04/2025	100	0	0	0									0.000	0.749	0.666	33	52	3	12	23/09/2022	23/09/2022	06/10/2022	31/10/2024	31/10/2024	31/10/2024		100	0	0	0	0.641	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.930	0	100	0	0	100	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
364	23_24 Q4	JI280	Pilot Plant Operations			02: Water	04a: WTW	NA							29/07/2022													0.000	0.000	0.000					26/04/2022	26/04/2022	29/04/2022	31/05/2022	31/05/2022	31/05/2022		0	100	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.340	100	0	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
365	23_24 Q4	JI281	Regenerated WIIM WP 2022 A (Mills)			03: Water	08z: Water	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027	15/05/2024	100	0	0	0									0.000	0.604	0.324	33	52	3	12	27/05/2022	27/05/2022	21/11/2022	15/01/2024	15/01/2024	15/01/2024		100	0	0	0	0.400	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.750	12	88	0	0	88	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
366	23_24 Q4	JI284	Controlled Service Reservoirs – Section 10 Outputs			04: Service	01z: Base	NA							09/12/2027													0.000	0.000	0.000					08/01/2025	08/01/2025	20/01/2026	15/04/2027	15/04/2027	15/04/2027		0	100	0	0	0.115	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.027	0	80	0	20	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
367	23_24 Q4	JI316	Independent Technical Challenge			15: Genera	20z: Mana	NA																				0.000	0.000	0.000					04/11/2025	04/11/2025						15	12	26	47	0.100	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.050	0	100	0	0	15	26	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
368	23_24 Q4	JI317	Social Value Advisory Support			15: Genera	20z: Mana	NA																				0.000	0.000	0.000					27/09/2023	27/09/2023						0	50	0	50	-0.028	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.040	0	100	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
369	23_24 Q4	JI318	Impounding Reservoir Portfolio Risk Assessment			04: Service	06z: Servic	NA																				0.000	0.000	0.000												100	0	0	0	0.096	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	100	0	0	100	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
370	23_24 Q4	JI319	Chlorination Base Maintenance Programme for SRs and			04: Service	06z: Servic	NA							30/05/2028													0.000	0.000	0.000					03/07/2024	03/07/2024						0	100	0	0	0.125	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	14	86	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
371	23_24 Q4	JI320	Impounding Reservoir S12 outputs and other items			01: Water	03b: Impou	NA							17/09/2027													0.000	0.000	0.000					02/01/2025	02/01/2025	29/04/2025	23/07/2026	23/07/2026	23/07/2026		100	0	0	0	0.120	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	100	0	0	100	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
372	23_24 Q4	JI321	Water Efficiency and Innovation Support Services Phase			15: Genera	04z: Water	NA																				0.000	0.000	0.000												0	100	0	0	0.200	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	100	0	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
373	23_24 Q4	JI323	On- line Aluminium Monitors at NIW Alpha Facilities			04: Service	04a: WTW	NA							05/12/2024													0.000	0.000	0.000					16/10/2023	16/10/2023	30/04/2024	31/10/2024	31/10/2024	31/10/2024		0	100	0	0	0.127	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	100	0	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
374	23_24 Q4	JI324	Water Resilience Hub - Kennedy Way			06: Water	20z: Mana	NA							29/10/2025													0.000	0.000	0.000					03/04/2024	03/04/2024	08/05/2024	31/01/2025	31/01/2025	31/01/2025		0	100	0	0	0.270	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	95	5	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
375	23_24 Q4	JI325	Rationalisation, Relocation and Repair of Solar Powered			04: Service	07b: Samp	NA							29/07/2026													0.000	0.000	0.000					16/01/2025	16/01/2025	06/05/2025	06/05/2026	06/05/2026	06/05/2026		0	100	0	0	0.012	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	100	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
376	23_24 Q4	JI326	British Geological Survey Support			01: Water	03a: WR&	NA																				0.000	0.000	0.000					31/05/2023	31/05/2023						0	100	0	0	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	0	100	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
377	23_24 Q4	JI327	Water Strategy Data Analytics Resource			15: Genera	07a: SR R	NA																				0.000	0.000	0.000												0	100	0	0	0.060	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	50	50	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
378	23_24 Q4	JI328	Land payments for archived projects			03: Water	05z: Water	NA																				0.000	0.000	0.000												50	0	50	0	0.022	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	25	50	25	0	25	25	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
379	23_24 Q4	JI329	Strategic Chlorine Drum and Cylinder Storage			02: Water	01a: WTW	NA																				0.000	0.000	0.000					19/06/2024	19/06/2024						0	100	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	0	100	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
380	23_24 Q4	JI330	NI Water Biodiversity Strategy			01: Water	03c: Catch	NA																				0.000	0.000	0.000					14/08/2023	14/08/2023	10/07/2023	31/03/2025	31/03/2025	31/03/2025		0	100	0	0	0.020	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	100	0	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
381	23_24 Q4	JI331	NI Water Energy Strategy - Baseline			15: Genera	20j: Energ	NA																				0.000	0.000	0.000												0	50	0	50	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	100	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
382	23_24 Q4	JI333	AD-Asset Strategy-Water Asset Performance Modelling I			06: Water	20g: Other	NA																				0.000	0.000	0.000					13/11/2023	13/11/2023	01/02/2024	31/03/2027	31/03/2027	31/03/2027		100	0	0	0	0.250	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	100	0	0	100	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
383	23_24 Q4	JI336	Development of Acoustic Logging PC27 Business Case			06: Water	20z: Mana	NA																				0.000	0.000	0.000					08/05/2025	08/05/2025						100	0	0	0	0.030	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	100	0	0	100	0	14: PC27 LWWP			N					N/A	N/A	xxx98
384	23_24 Q4	JI337	PC21 Pilot Plant Operations			02: Water	04a: WTW	NA																				0.000	0.000	0.000					26/06/2024	26/06/2024						0	100	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	0	100	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
385	23_24 Q4	JI340	PC21 Chlorine Dosing BM and PSCEMD Requirements			04: Service	01z: Base	NA																				0.000	0.000	0.000												0	100	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	50	50	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
386	23_24 Q4	JI344	Water Process Engineering Support Services			15: Genera	04a: WTW	NA																				0.000	0.000	0.000												100	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	40	0	20	40	0	0	15: PC21 Non-Nominated			N					N/A	N/A	WS0000
387	23_24 Q4	JL715	Caugh Hill, Carmoney to Strabane Strategic Link Waterm			03: Water	05z: Water	NA	01/03/2021	01/03/2021	01/04/2022	31/03/2027		31/03/2027	19/02/2030	100	0	0	0									0.402	3.473	3.488	0	0	0	100	01/08/2022	01/08/2022	06/10/2022	26/12/2028	26/12/2028	26/12/2028		75	25	0	0	8.407	0.076	0.036	0.100	0.045	0.238	-0.043	0.000	0.005	0.170	3.121	0	25	0	75	0	0	10: PC21 Nominated			N					N/A	N/A	xxx98
388	23_24 Q4	JL770	Caugh Hill WTW - Upgrade of Wash Water Treatment Fa			02: Water	04a: WTW	NA																				0.000	0.000	0.000					12/02/2016	19/02/2016					08/04/2019	0	100	0	0	0.000	0.022	0.010	0.006	0.132	2.198	2.038	0.089	0.035	0.000	-0.020	0	72	28	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
389	23_24 Q4	JL785	A6 Dungiven Drumahoe			03: Water	23b: Roads	NA	17/08/2018	17/08/2018		31/03/2022		31/03/2022		100	0	0	0									0.424	0.000	0.000	0	60	0	40	22/08/2018	22/08/2018	18/06/2018	01/06/2023	01/06/2023	01/06/2023		87	10	3	0	0.007	0.000	0.000	0.000	0.030	0.045	0.307	0.466	0.273	0.506	0.068	0	60	0	40	47	3	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
390	23_24 Q4	JL787	Faughan RWPS Resilience Scheme			05: Faciliti	01z: Base	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2024		31/03/2024		0	100	0	0									0.032	0.925	0.000	0	100	0	0	12/10/2020	12/10/2020	08/01/2021	05/08/2022	05/08/2022	05/08/2022		0	100	0	0	0.027	0.000	0.000	0.000	0.000	0.215	0.113	0.056	2.033	2.548	0.659	0	90	10	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
391	23_24 Q4	JL788	Creggan SR Overflow			04: Service	01z: Base	NA																				0.000	0.000	0.000					25/10/2021	24/11/2021						0	100	0	0	0.000	0.000	0.000	0.000	0.000	0.001	0.037	-0.001	0.000	0.003	0.000	0	100	0	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
392	23_24 Q4	JL790	Northern WRZ Resilience			01: Water	05z: Water	NA	18/09/2019	18/09/2019		31/03/2025		31/03/2025		100	0	0	0									1.784	1.587	0.000	10	0	20	70	24/09/2019	24/09/2019	21/10/2019	27/03/2025	27/03/2025	27/03/2025		100	0	0	0	0.179	0.000	0.000	0.000	0.000	0.040	0.089	0.655	2.455	3.768	0.102	0	0	0	100	0	0	10: PC21 Nominated			N					N/A	N/A	xxx98
393	23_24 Q4	JL791	Caugh Hill CWB Rehabilitation			04: Service	07a: SR R	NA																				0.000	0.000	0.000					24/08/2018	05/09/2018	02/04/2018	24/06/2019		27/09/2019	10/09/2019	0	100	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.243	0.229	0.002	0.000	0.000	0	100	0	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
394	23_24 Q4	JL795	Ballinrees WTW. MCPA treatment investigations			02: Water	04a: WTW	NA																				0.000	0.000	0.000					09/03/2022	09/03/2022	09/03/2022	04/05/2023	04/05/2023	04/05/2023		0	100	0	0	-0.002	0.000	0.000	0.000	0.000	0.000	0.050	0.302	0.215	1.653	-0.753	0	11	89	0	0	0	10: PC21 Nominated			N					N/A	N/A	xxx98
395	23_24 Q4	JL799	Ebrington Square Limavady Road, Londonderry Waterma			03: Water	23a: New	NA																				0.000	0.000	0.000					15/10/2019	30/10/2019						100	0	0	0	-0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.099	0.022	0.000	0.000	0	0	0	100	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
396	23_24 Q4	JL802	Gorticross Rd / Lettershendoney Rd Drumahoec Waterm			03: Water	23z: Water	NA																				0.000	0.000	0.000					15/01/2020	23/01/2020	01/09/2020	04/02/2021		31/12/2020	29/03/2021	100	0	0	0	-0.031	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.107	0.000	0.000	0	0	0	100	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
397	23_24 Q4	JL803	Altikeeragh & Ballinrees PPP Dam Inspection Actions			01: Water	03z: Water	NA																				0.000	0.000	0.000					18/11/2020	23/11/2020	12/01/2021	04/06/2021		04/06/2021	04/06/2021	0	100	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.025	0.247	0.003	0.000	0	100	0	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
398	23_24 Q4	JL805	Bigwood Road, Ardmore Watermains Replacement			03: Water	23z: Water	NA																				0.000	0.000	0.000					21/01/2020	12/02/2020	11/05/2020	04/02/2021		31/08/2020	29/03/2021	100	0	0	0	-0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.082	0.000	0.000	0	100	0	0	100	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
399	23_24 Q4	JL806	Duncrun Road, Magilligan, Watermain Replacemen			03: Water	08z: Water	NA																				0.000	0.000	0.000					12/02/2020	12/02/2020	17/05/2021	15/06/2021	15/06/2021	15/06/2021		100	0	0	0	-0.037	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.099	0.000	0.000	0	100	0	0	100	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
400	23_24 Q4	JL807	Crescent Link Trunk Main			03: Water	05z: Water	NA	01/04/2021	01/04/2021	01/04/2022	31/03/2023		31/03/2023		100	0	0	0									0.141	0.711	0.710	0	0	0	100	09/12/2021	09/12/2021	25/04/2022	09/05/2023	09/05/2023	09/05/2023		100	0	0	0	0.131	0.000	0.000	0.000	0.000	0.000	0.000	0.004	0.121	0.425	2.122	0	39	0	61	39	0	10: PC21 Nominated			N					N/A	N/A	xxx98
401	23_24 Q4	JL808	Buncrana Road / Skeoge Link Trunk Main			03: Water	05z: Water	NA	01/04/2021	01/04/2021	01/04/2022	31/03/2023		31/03/2023		100	0	0	0									-0.049	0.123	0.690	0	0	0	100	24/10/2024	24/10/2024	11/07/2025	31/03/2028	31/03/2028	31/03/2028		100	0	0	0	-0.032	0.000	0.000	0.000	0.000	0.000	0.000	0.021	0.409	0.035	0.005	0	70	0	30	70	0	10: PC21 Nominated			N					N/A	N/A	xxx98
402	23_24 Q4	JL810	Altinure Road Mains Rehab			03: Water	08z: Water	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027		100	0	0	0									0.123	0.000	0.000	33	52	3	12	18/11/2020	18/11/2020	15/03/2021	31/05/2021	31/05/2021	31/05/2021		100	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.050	0.135	0.000	0	100	0	0	100	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
403	23_24 Q4	JL812	Springfield Road, Derry, Watermain Replacement			03: Water	08z: Water	NA																				0.000	0.000	0.000					20/07/2020	04/08/2020	28/09/2020	04/02/2021		31/12/2020		100	0	0	0	-0.012	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.050	0.000	0.000	0	100	0	0	100	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
404	23_24 Q4	JL814	Carmoney Treatability Improvements			02: Water	04a: WTW	NA	01/04/2021	01/04/2021	01/04/2022	31/03/2025		31/03/2025		0	100	0	0									0.027	0.215	0.393	0	0	100	0	19/12/2022	19/12/2022	22/12/2022	31/05/2023	31/05/2023	31/05/2023		0	100	0	0	0.152	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.005	1.024	0.665	0	64	36	0	0	0	10: PC21 Nominated			N					N/A	N/A	xxx98
405	23_24 Q4	JL815	Caugh Hill Treatability Improvements			02: Water	04a: WTW	NA	01/04/2023	01/04/2023	01/04/2025	31/03/2027		31/03/2027	15/08/2029	0	100	0	0									-0.017	0.515	5.064	0	0	100	0	24/09/2026	24/09/2026	12/03/2027	31/01/2029	31/01/2029	31/01/2029		0	100	0	0	0.043	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.044	0.370	0.979	0	0	100	0	0	0	10: PC21 Nominated			N					N/A	N/A	xxx98
406	23_24 Q4	JL817	Altinure Road Park Village			03: Water	08z: Water	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027		100	0	0	0									0.142	0.066	0.000	33	52	3	12	06/11/2021	24/11/2021	01/03/2022	01/06/2022		31/05/2022		100	0	0	0	-0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.156	0.082	0	80	20	0	80	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
407	23_24 Q4	JL818	WTW On-Site Wind Feasibility Study			15: Genera	20j: Energ	NA																				0.000	0.000	0.000					22/01/2025	22/01/2025	29/04/2025	08/10/2025	08/10/2025	08/10/2025		100	0	0	0	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.021	100	0	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
408	23_24 Q4	JL819	New WBS and Network Upgrade at Skeoge Derry for Bra			03: Water	23a: New	NA																				0.000	0.000	0.000					26/06/2024	26/06/2024	06/01/2025	01/04/2025	01/04/2025	01/04/2025		0	100	0	0	0.030	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.113	0	0	0	100	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
409	23_24 Q4	JL821	Carmoney PC21 WTW			02: Water	04a: WTW	NA							22/05/2026													0.000	0.000	0.000					30/10/2024	30/10/2024	31/01/2025	30/01/2026	30/01/2026	30/01/2026		0	100	0	0	0.100	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	30	50	0	20	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
410	23_24 Q4	JL822	Caugh Hill PC21 Improvements			02: Water	04z: Water	NA							22/03/2027													0.000	0.000	0.000					07/08/2024	07/08/2024	29/11/2024	30/11/2026	30/11/2026	30/11/2026		0	100	0	0	0.205	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	25	25	25	25	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
411	23_24 Q4	JL823	Creggan SR Enhanced Security Arrangements			04: Service	07c: SR er	NA							27/04/2027													0.000	0.000	0.000					29/08/2024	29/08/2024	04/09/2024	31/03/2025	31/03/2025	31/03/2025		0	100	0	0	0.132	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	39	61	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
412	23_24 Q4	JL824	Caugh Hill Pilot Plant			02: Water	04z: Water	NA																				0.000	0.000	0.000					06/04/2023	06/04/2023	30/06/2023			29/11/2024		0	100	0	0	1.260	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	30	30	0	40	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
413	23_24 Q4	JL825	Relocation of Section of Tamneymore to Creggan Main r			03: Water	23c: Trunk	NA																				0.000	0.000	0.000					15/05/2024	15/05/2024	12/06/2024	12/06/2024	12/06/2024	12/06/2024		100	0	0	0	0.186	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	100	0	0	100	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
414	23_24 Q4	JL826	Corrody SR New Chlorine Dosing Facility at Inlet.			04: Service	23z: Water	NA							21/01/2026													0.000	0.000	0.000					05/06/2024	05/06/2024						0	100	0	0	0.094	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	80	20	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
415	23_24 Q4	JL827	Corrody SR to Creggan SR Transmission main replacem			03: Water	23c: Trunk	NA																				0.000	0.000	0.000												100	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	100	0	0	100	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
416	23_24 Q4	JN483	Glenhordial WTW expansion of existing sludge plant			02: Water	04a: WTW	NA	01/04/2022	01/04/2022	01/04/2023	31/03/2024		31/03/2024	15/06/2027	0	100	0	0									0.000	0.000	0.008	0	2	98	0	13/08/2026	13/08/2026	28/12/2026	23/03/2027	23/03/2027	23/03/2027		0	100	0	0	0.022	0.013	0.005	0.009	0.014	-0.004	0.000	0.000	0.000	0.000	0.000	7	93	0	0	0	0	10: PC21 Nominated			N					N/A	N/A	xxx98
417	23_24 Q4	JN509	Derg WTW - Upgrade of Filters and Chemical Dosing			02: Water	04a: WTW	NA																				0.000	0.000	0.000					02/11/2016	04/11/2016						0	100	0	0	0.000	0.003	0.013	0.471	0.045	0.496	0.434	0.031	-0.069	-0.001	0.000	38	51	0	11	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
418	23_24 Q4	JN511	South / South East Zonal Study South East Phase 1 Wor			03: Water	08z: Water	NA																				0.000	0.000	0.000					14/02/2014	21/02/2014				23/03/2015		88	12	0	0	-0.014	0.510	2.025	-0.023	0.010	-0.080	-0.010	0.087	0.008	0.000	-0.063	32	56	0	12	56	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
419	23_24 Q4	JN512	Omagh Phase 2 Watermain Rehab			03: Water	08z: Water	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027		100	0	0	0									0.028	0.000	0.000	33	52	3	12	04/03/2014	10/03/2014				30/03/2015		100	0	0	0	0.000	0.420	1.895	0.618	-0.054	0.121	-0.004	0.073	-0.001	0.031	0.000	19	74	0	7	74	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
420	23_24 Q4	JN534	WIIM Phase 2 Loughmacrory WP			03: Water	08z: Water	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027		100	0	0	0									0.006	0.000	0.000	33	52	3	12	17/10/2016	17/10/2016		25/11/2021				100	0	0	0	-0.006	0.000	0.000	0.000	0.692	1.311	-0.035	0.052	0.193	0.007	-0.052	11	89	0	0	89	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
421	23_24 Q4	JN535	WIIM Phase 2 Lough Braden Drumquin WP			03: Water	08z: Water	NA																				0.000	0.000	0.000					04/07/2016	04/07/2016	04/01/2016	31/03/2020		31/03/2021	26/03/2021	100	0	0	0	-0.013	0.000	0.000	0.000	1.399	1.382	0.266	0.118	0.032	0.000	-0.014	14	86	0	0	86	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
422	23_24 Q4	JN538	Derg WTW MCPA PEO Undertakings			02: Water	04a: WTW	NA							27/06/2024	0	100	0	0									3.878	1.016	0.000	100	0	0	0	13/05/2021	13/05/2021	16/06/2021	31/03/2023	31/03/2023	31/08/2023		0	100	0	0	0.384	0.000	0.000	0.000	0.283	0.020	0.060	0.396	2.306	2.283	2.717	100	0	0	0	0	0	10: PC21 Nominated			N					N/A	N/A	xxx98
423	23_24 Q4	JN541	PC15 Year 3 WTW Capital Maintenance - West Region			02: Water	01a: WTW	NA																				0.000	0.000	0.000					04/08/2017	09/08/2017						0	100	0	0	0.000	0.000	0.000	0.000	0.000	0.781	0.284	0.000	-0.007	0.000	0.000	0	100	0	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
424	23_24 Q4	JN545	Alleyhill to Doochrock Watermain			03: Water	23c: Trunk	NA																				0.000	0.000	0.000					02/11/2017	08/11/2017	04/09/2017	12/10/2018				100	0	0	0	-0.002	0.000	0.000	0.000	0.002	0.605	1.028	0.363	-0.014	0.022	0.000	0	48	0	52	48	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
425	23_24 Q4	JN546	Tyrone South WIIM 2.1 Work Package			03: Water	08z: Water	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027		100	0	0	0									0.280	0.043	0.000	33	52	3	12	06/03/2019	06/03/2019	29/04/2019	30/03/2022	30/03/2022	30/03/2022		100	0	0	0	0.100	0.000	0.000	0.000	0.000	0.000	0.097	1.038	0.312	0.307	0.173	0	97	2	1	97	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
426	23_24 Q4	JN547	Tyrone North WIIM 2.1 Work Package			03: Water	08z: Water	NA																				0.000	0.000	0.000					12/06/2018	18/06/2018	04/09/2017			07/06/2019		100	0	0	0	-0.024	0.000	0.000	0.000	0.000	0.150	1.980	0.702	0.300	0.000	0.000	44	56	0	0	56	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
427	23_24 Q4	JN548	Fermanagh South WIIM 2.1 Work Package			03: Water	08z: Water	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027		100	0	0	0									0.004	0.000	0.000	33	52	3	12	02/10/2018	04/10/2018						100	0	0	0	-0.005	0.000	0.000	0.000	0.000	0.225	0.475	0.677	0.064	0.004	0.000	0	100	0	0	100	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
428	23_24 Q4	JN549	Tyrone West WIIM 2.1 Work Package			03: Water	08z: Water	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027		100	0	0	0									0.105	0.014	0.000	33	52	3	12	04/02/2019	04/02/2019	01/04/2019	25/08/2022	25/08/2022	25/08/2022		100	0	0	0	-0.004	0.000	0.000	0.000	0.000	0.070	0.056	1.671	0.491	0.115	0.000	0	100	0	0	100	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
429	23_24 Q4	JN551	Cornamuck Road Realignment			03: Water	23b: Roads	NA																				0.000	0.000	0.000												100	0	0	0	0.003	0.000	0.000	0.000	0.000	0.010	0.000	0.000	0.000	0.000	0.007	0	100	0	0	100	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
430	23_24 Q4	JN553	Western WRZ Resilience			01: Water	05z: Water	NA																				0.000	0.000	0.000												100	0	0	0	0.000	0.000	0.000	0.000	0.000	0.018	0.037	0.025	-0.008	0.000	0.000	10	0	20	70	0	0	01: PC15 Non-Nominated			N					N/A	N/A	WS0000
431	23_24 Q4	JN555	Gortin Road, Omagh - Road Widening			03: Water	23b: Roads	NA																				0.000	0.000	0.000					23/03/2023	23/03/2023	12/03/2024	05/06/2025	05/06/2025	05/06/2025		100	0	0	0	0.002	0.000	0.000	0.000	0.000	0.023	0.014	0.000	0.000	0.000	0.010	0	94	0	6	94	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
432	23_24 Q4	JN556	Ramaley Road/Clabby Road Watermains Replacement			03: Water	08z: Water	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027		100	0	0	0									0.015	0.000	0.000	33	52	3	12	19/02/2019	12/03/2019						100	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.120	0.052	0.016	0.000	0	75	25	0	75	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
433	23_24 Q4	JN557	Swanlinbar Road Watermain Rehab			03: Water	23a: New	NA																				0.000	0.000	0.000					19/02/2019	20/03/2019	22/04/2019	04/02/2021		13/12/2019		100	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.100	0.016	0.000	0.000	0	40	20	40	40	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
434	23_24 Q4	JN558	Old Coach Road/Sessiagh Lane watermain replacement			03: Water	23a: New	NA																				0.000	0.000	0.000					19/02/2019	20/03/2019	01/05/2019	01/02/2021		03/07/2020		100	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.182	0.080	0.000	0.010	0	40	20	40	40	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
435	23_24 Q4	JN560	A29 Cookstown Bypass			03: Water	23b: Roads	NA																				0.000	0.000	0.000												90	0	10	0	0.022	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	100	0	0	90	10	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
436	23_24 Q4	JN561	Glenhordial to Killybrack TM			03: Water	23c: Trunk	NA																				0.000	0.000	0.000												100	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.124	0.153	0.000	-0.001	0	90	0	10	90	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
437	23_24 Q4	JN562	Derg Treatability Improvements			02: Water	04a: WTW	NA	01/04/2021	01/04/2021	01/04/2023	31/03/2025		31/03/2025	28/06/2024	0	100	0	0									0.000	0.083	0.082	0	13	87	0	13/05/2021	13/05/2021	16/06/2021	31/03/2023	31/03/2023	31/08/2023		0	100	0	0	0.547	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.004	4.198	5.234	100	0	0	0	0	0	10: PC21 Nominated			N					N/A	N/A	xxx98
438	23_24 Q4	JN563	PC 21 Western Resource Zone - Resilience			05: Faciliti	05z: Water	NA	01/04/2023	01/04/2023	01/04/2025	31/03/2027		31/03/2027		0	100	0	0									0.000	0.042	0.083	0	23	0	77	24/08/2023	24/08/2023	01/04/2024	04/04/2025	04/04/2025	04/04/2025		0	100	0	0	1.493	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.070	0.545	0	0	0	100	0	0	10: PC21 Nominated			N					N/A	N/A	xxx98
439	23_24 Q4	JN564	SR - Loughmacrory Hill			04: Service	06z: Servic	NA	01/04/2021	01/04/2021	01/04/2024	31/03/2026		31/03/2026	24/05/2029	0	100	0	0									0.000	0.051	0.051	0	1	0	99	15/05/2024	15/05/2024	22/04/2027	01/03/2029	01/03/2029	01/03/2029		0	100	0	0	0.013	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.102	0.060	0	16	0	84	0	0	10: PC21 Nominated			N					N/A	N/A	xxx98
440	23_24 Q4	JN565	Blacklough to Crocknabohill SR			03: Water	05z: Water	NA	01/04/2023	01/04/2023	01/04/2025	31/03/2027		31/03/2027	03/03/2031	100	0	0	0									0.000	0.000	0.152	0	0	0	100	24/04/2025	24/04/2025	21/04/2026	17/05/2027	17/05/2027	17/05/2027		100	0	0	0	0.019	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	0	0	100	0	0	10: PC21 Nominated			N					N/A	N/A	xxx98
441	23_24 Q4	JN566	Trunkmain - Castletown Strabane			03: Water	23c: Trunk	NA	01/04/2021	01/04/2021	01/04/2023	31/03/2025		31/03/2025		100	0	0	0									0.029	0.385	0.672	0	100	0	0	18/09/2024	18/09/2024	09/12/2025	04/03/2027	04/03/2027	04/03/2027		100	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	100	0	0	100	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
442	23_24 Q4	JN567	Loughmacrory Treatability Improvements PC21			02: Water	04a: WTW	NA	01/04/2024	01/04/2024	01/04/2025	31/03/2027		31/03/2027	15/07/2027	0	100	0	0									0.000	0.000	0.449	0	41	59	0	18/12/2025	18/12/2025	27/08/2026	25/03/2027	25/03/2027	25/03/2027		0	100	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	41	59	0	0	0	10: PC21 Nominated			N					N/A	N/A	xxx98
443	23_24 Q4	JN568	Lough Fea Treatability Improvements PC21			02: Water	04a: WTW	NA	01/04/2021	01/04/2021	01/04/2022	31/03/2024		31/03/2024	25/02/2025	0	100	0	0									0.000	0.030	0.287	0	65	35	0	18/12/2023	18/12/2023	30/04/2024	31/12/2024	31/12/2024	31/12/2024		0	100	0	0	0.062	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.183	0	57	43	0	0	0	10: PC21 Nominated			N					N/A	N/A	xxx98
444	23_24 Q4	JN569	Glenhordial Treatability Improvements PC21			02: Water	04a: WTW	NA	01/04/2024	01/04/2024	01/04/2025	31/03/2027		31/03/2027	06/06/2025	0	100	0	0									0.000	0.000	0.000	0	60	40	0	04/07/2023	04/07/2023	12/12/2023	31/12/2024	31/12/2024	31/12/2024		0	100	0	0	0.652	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.250	0	82	18	0	0	0	10: PC21 Nominated			N					N/A	N/A	xxx98
445	23_24 Q4	JN570	Lough Bradan Treatability Improvements PC21			02: Water	04a: WTW	NA	01/04/2024	01/04/2024	01/04/2025	31/03/2027		31/03/2027	07/07/2027	0	100	0	0									0.000	0.000	0.000	0	19	81	0	21/05/2026	21/05/2026	30/07/2026	17/03/2027	17/03/2027	17/03/2027		0	100	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	19	81	0	0	0	10: PC21 Nominated			N					N/A	N/A	xxx98
446	23_24 Q4	JN571	Upgrade to Killyhevlin WTW (including DWW Tank) PC2			02: Water	04a: WTW	NA	01/04/2021	01/04/2021	01/04/2022	31/03/2027		31/03/2027	19/06/2026	0	100	0	0									0.000	0.000	0.000	51	8	0	41	13/02/2025	13/02/2025	27/02/2026	27/02/2026	27/02/2026	27/02/2026		0	100	0	0	0.054	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	50	10	40	0	0	0	10: PC21 Nominated			N					N/A	N/A	xxx98
447	23_24 Q4	JN572	Woodend to Drain Main			03: Water	05z: Water	N/A	01/04/2022	01/04/2022		31/03/2027		31/03/2027		100	0	0	0									0.000	0.158	1.006	0	0	0	100								100	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	0	0	100	0	0	10: PC21 Nominated			N					N/A	N/A	
448	23_24 Q4	JN573	Edenasop to Killeter SR			03: Water	05z: Water	N/A	01/04/2021	01/04/2021	01/04/2022	31/03/2025		31/03/2025		100	0	0	0									0.000	0.337	0.559	0	29	0	71	26/09/2024	26/09/2024	17/07/2025	24/03/2027	24/03/2027	24/03/2027		100	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	29	0	71	29	0	10: PC21 Nominated			N					N/A	N/A	
449	23_24 Q4	JN575	Tullywhisker Castletown Trunk Main Realignment			03: Water	23c: Trunk	NA							13/10/2028													0.000	0.000	0.000					08/05/2025	08/05/2025	26/05/2026	19/08/2027	19/08/2027	19/08/2027		100	0	0	0	0.192	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	100	0	0	100	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
450	23_24 Q4	JN576	Loughmacrory CWB - additional storage			04: Service	06z: Servic	NA							12/12/2029													0.000	0.000	0.000					15/05/2024	15/05/2024	08/08/2024	30/01/2026	30/01/2026	30/01/2026		0	100	0	0	0.258	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	0	0	100	0	0	03: Additional Output Proposed			N					N/A	N/A	xxx98
451	23_24 Q4	JN577	Bridge/Culvert Crossings - West			03: Water	08z: Water	NA							14/09/2026													0.000	0.000	0.000					02/10/2024	02/10/2024	13/01/2025	12/01/2026	12/01/2026	12/01/2026		100	0	0	0	0.070	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	100	0	0	100	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
452	23_24 Q4	JN578	Derg WTW Additional Works PC21			02: Water	04a: WTW	NA							05/08/2027													0.000	0.000	0.000												0	100	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	20	80	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
453	23_24 Q4	JP631	Killyhevlin Clear Water Tank			04: Service	06z: Servic	NA								0	100	0	0									0.298	0.000	0.000	0	32	0	68	16/06/2016	16/06/2016	24/09/2018	28/07/2021	28/07/2021	28/07/2021		0	100	0	0	-0.001	0.000	0.000	0.000	0.194	0.218	3.214	5.215	2.089	0.060	0.252	0	32	0	68	0	0	02: PC15 Nominated			N					N/A	N/A	xxx98
454	23_24 Q4	JP669	Killyhevlin WTW - GAC			02: Water	04a: WTW	NA																				0.000	0.000	0.000					08/07/2013	19/07/2013	11/03/2014	31/03/2015		27/07/2015	16/02/2017	0	100	0	0	-0.063	0.717	3.777	0.331	0.070	-0.105	-0.050	0.000	0.000	0.000	0.000	100	0	0	0	0	0	08: PC13 Nominated			N					N/A	N/A	xxx98
455	23_24 Q4	JP680	South / South East Zonal Study South Phase 1 Work Pac			03: Water	08z: Water	NA																				0.000	0.000	0.000					13/05/2014	21/05/2014				30/03/2015		100	0	0	0	-0.031	0.273	1.782	0.132	-0.001	0.000	-0.047	0.105	-0.006	0.000	-0.044	48	46	0	6	46	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
456	23_24 Q4	JP688	PC15 Year 2 WTW Base Maintenance – West Region			02: Water	01a: WTW	NA																				0.000	0.000	0.000					05/03/2016	09/03/2016						0	100	0	0	0.000	0.000	0.000	0.005	1.755	1.141	0.074	0.059	-0.013	0.000	-0.006	0	100	0	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
457	23_24 Q4	JP691	Fermanagh North WIIM 2.1 Work Package			03: Water	08z: Water	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027		100	0	0	0									0.409	0.252	0.000	33	52	3	12	12/02/2020	12/02/2020	01/05/2020	25/08/2022	25/08/2022	25/08/2022		100	0	0	0	0.065	0.000	0.000	0.000	0.000	0.000	0.100	0.233	0.694	0.449	0.313	18	78	4	0	78	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
458	23_24 Q4	JP693	Killyhevlin Wtw treatability recommended improvements.			02: Water	04a: WTW	NA							23/05/2025													0.000	0.000	0.000					09/03/2020	09/03/2020	06/10/2020	30/01/2025	30/01/2025	28/02/2025		0	100	0	0	1.272	0.000	0.000	0.000	0.000	0.035	-0.005	0.269	0.993	0.110	2.691	0	63	37	0	0	0	10: PC21 Nominated			N					N/A	N/A	xxx98
459	23_24 Q4	JP696	PC15 Year 4 WTW Base Maintenance			02: Water	01a: WTW	NA																				0.000	0.000	0.000					10/07/2018	18/07/2018						0	100	0	0	0.000	0.000	0.000	0.000	0.000	0.000	1.405	0.900	0.011	0.001	-0.105	0	100	0	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
460	23_24 Q4	JP697	Killyhevlin Outlet Mains Replacement			03: Water	23c: Trunk	NA																				0.000	0.000	0.000												100	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.300	0.017	0.001	0.000	0.000	0	92	0	8	92	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
461	23_24 Q4	JP699	Enniskillen PR Watermains Replacements			03: Water	08z: Water	NA																				0.000	0.000	0.000					02/08/2019	06/08/2019	04/03/2019	16/03/2020		29/11/2019		100	0	0	0	-0.008	0.000	0.000	0.000	0.000	0.000	0.010	0.238	0.000	0.000	0.000	0	100	0	0	100	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
462	23_24 Q4	JP700	A4 Enniskillen Southern Bypass			03: Water	23b: Roads	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027		100	0	0	0									0.000	0.023	0.000	33	52	3	12								100	0	0	0	-0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.028	0	100	0	0	100	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
463	23_24 Q4	JP702	Killyhevlin to Cavanacross Trunk Main			03: Water	05z: Water	NA	01/04/2021	01/04/2021	01/04/2022	31/03/2025		31/03/2025	19/07/2024	100	0	0	0									0.000	0.066	1.093	0	70	0	30	23/09/2022	23/09/2022	28/11/2022	15/02/2024	15/02/2024	13/03/2024		100	0	0	0	2.286	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.162	0.997	0	63	0	37	63	0	10: PC21 Nominated			N					N/A	N/A	xxx98
464	23_24 Q4	JP703	Belleek Treatability Improvements PC21			02: Water	04a: WTW	NA	01/04/2022	01/04/2022	01/04/2023	31/03/2025		31/03/2025	23/06/2027	0	100	0	0									0.000	0.007	0.063	0	57	43	0	02/04/2026	02/04/2026	05/06/2026	31/03/2027	31/03/2027	31/03/2027		0	100	0	0	0.068	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.085	0	57	43	0	0	0	10: PC21 Nominated			N					N/A	N/A	xxx98
465	23_24 Q4	JP704	Killyhevlin to Cavanacross SR B Section			03: Water	05z: Water	NA																				0.000	0.000	0.000					01/05/2024	01/05/2024	08/05/2024					100	0	0	0	0.114	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	34	0	66	34	0	10: PC21 Nominated			N					N/A	N/A	xxx98
466	23_24 Q4	JP705	Killyhevlin Outlet Trunk Mains Rehabilitation			03: Water	23c: Trunk	NA							20/06/2025													0.000	0.000	0.000					10/11/2023	10/11/2023	20/02/2024	28/02/2025	28/02/2025	28/02/2025		100	0	0	0	0.439	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	58	0	42	58	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
467	23_24 Q4	JP706	Enniskillen Derrygonnelly WIIM Regen2 WP			03: Water	08z: Water	NA							05/08/2027													0.000	0.000	0.000					16/10/2024	16/10/2024	15/04/2025	09/07/2026	09/07/2026	09/07/2026		100	0	0	0	0.331	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	11	29	60	11	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
468	23_24 Q4	JP707	Derrylin Ballygawley WIIM Regen2 WP			03: Water	08z: Water	NA																				0.000	0.000	0.000					27/09/2023	27/09/2023	09/10/2023	04/07/2025	04/07/2025	28/03/2025		100	0	0	0	0.836	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2	83	0	15	83	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
469	23_24 Q4	JP708	Killyhevlin MIEX Trial			02: Water	04z: Water	NA																				0.000	0.000	0.000					27/06/2023	27/06/2023	30/11/2023			03/05/2024		0	100	0	0	0.360	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	50	0	50	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
470	23_24 Q4	JP709	Glenhordial and Belleek Liquid PAC Dosing Systems			02: Water	04a: WTW	NA																				0.000	0.000	0.000					22/09/2023	22/09/2023	19/01/2024	28/06/2024	28/06/2024	28/06/2024		0	100	0	0	0.250	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	100	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
471	23_24 Q4	JR151	West Belfast/ North Lisburn			04: Service	06z: Servic	NA																				0.000	0.000	0.000					02/02/1993	10/05/1993						0	100	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.050	0.000	-0.006	2	6	0	92	0	0	11: PC10			N					N/A	N/A	xxx98
472	23_24 Q4	JR321	Breda North Zone Watermain Improvements			03: Water	08z: Water	NA																				0.000	0.000	0.000					02/04/2010	26/04/2010	05/04/2018	27/11/2012		06/11/2012	27/11/2012	98	2	0	0	-0.001	0.000	0.000	0.000	0.000	-0.150	-0.109	0.000	0.083	0.000	-0.015	25	64	7	4	64	0	11: PC10			N					N/A	N/A	xxx98
473	23_24 Q4	JR348	Dunore to Hydepark Pumping Main Replacement			03: Water	05z: Water	NA																				0.000	0.000	0.000							17/10/2005	12/01/2012		29/10/2007		100	0	0	0	0.000	-1.274	0.042	0.010	0.000	-0.397	0.000	0.013	-0.283	0.006	0.000	0	100	0	0	0	0	11: PC10			N					N/A	N/A	xxx98
474	23_24 Q4	JR438	Newtownabbey Zone Watermain Improvements Phase 1			03: Water	08z: Water	NA																				0.000	0.000	0.000					03/06/2011	07/06/2011	01/02/2011	27/08/2014		24/06/2014		97	3	0	0	-0.006	0.761	0.024	-0.001	0.000	-0.034	0.008	0.000	0.000	0.000	0.000	95	0	1	4	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
475	23_24 Q4	JR439	Carrickfergus Zone Watermain Improvements Phase 1			03: Water	08z: Water	NA																				0.000	0.000	0.000					19/05/2011	01/06/2011	03/04/2019	26/07/2013		30/10/2013		93	7	0	0	0.000	0.065	0.240	0.045	0.051	-0.083	0.032	0.000	0.056	0.000	-0.031	38	35	6	21	35	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
476	23_24 Q4	JR440	Newtownabbey Zone Watermain Improvements Phase 2			03: Water	08z: Water	NA																				0.000	0.000	0.000					05/07/2011	06/07/2011	02/02/2011	27/08/2014		02/02/2011		98	2	0	0	-0.021	1.498	0.211	-0.132	0.000	-0.085	0.008	0.014	0.000	0.000	0.000	92	5	1	2	5	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
477	23_24 Q4	JR441	Ballysillan Zone Watermain Improvements			03: Water	08z: Water	NA																				0.000	0.000	0.000					05/07/2011	06/07/2011	06/04/2017	14/01/2014		26/03/2014		98	2	0	0	0.000	1.207	-0.003	0.010	0.000	-0.046	0.100	0.041	0.000	0.000	-0.202	44	55	0	1	54	0	09: PC13 Non-Nominated			N					N/A	N/A	xxx98
478	23_24 Q4	JR444	Newtownabbey Zone Watermain Improvements Phase 3			03: Water	08z: Water	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027		100	0	0	0									0.033	0.000	0.000	33	52	3	12	17/12/2013	19/12/2013						100	0	0	0	-0.002	0.250	1.895	0.011	0.000	-0.220	0.101	0.096	0.002	0.036	0.000	93	0	0	7	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
479	23_24 Q4	JR449	Oldpark Watermain Improvements			03: Water	08z: Water	NA																				0.000	0.000	0.000					07/10/2013	16/10/2013	08/08/2011	01/07/2015		30/03/2015	01/07/2015	100	0	0	0	0.000	0.401	1.412	0.001	0.000	-0.050	-0.075	-0.003	0.005	0.000	-0.033	66	34	0	0	34	0	09: PC13 Non-Nominated			N					N/A	N/A	xxx98
480	23_24 Q4	JR453	Ballygomartin North Phase 1 Watermain Improvements			03: Water	08z: Water	NA																				0.000	0.000	0.000					07/10/2013	16/10/2013	01/04/2012	29/06/2015		30/03/2015		100	0	0	0	0.000	0.705	1.586	0.044	0.000	-0.027	0.038	0.007	0.023	0.000	-0.016	72	22	1	5	22	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
481	23_24 Q4	JR454	Ballygomartin South Phase 1 Water Mains Improvements			03: Water	08z: Water	NA																				0.000	0.000	0.000					07/10/2013	21/10/2013	01/04/2012	01/02/2019		31/03/2015		100	0	0	0	-0.026	0.731	1.965	0.225	0.000	-0.289	0.005	0.008	0.036	0.000	0.000	47	51	0	2	51	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
482	23_24 Q4	JR464	Carrickfergus Phase 3 Watermains Improvements			03: Water	08z: Water	NA																				0.000	0.000	0.000					14/05/2013	22/05/2013				29/08/2014		99	1	0	0	0.000	1.789	0.455	0.076	0.000	-0.110	0.041	0.018	0.000	0.000	-0.099	77	10	10	3	10	0	01: PC15 Non-Nominated			N					N/A	N/A	
483	23_24 Q4	JR466	McVeigh's Well Rationalisation of Pipework			03: Water	08z: Water	NA																				0.000	0.000	0.000					14/02/2013	19/02/2013	27/06/2012	09/10/2014		25/08/2014		100	0	0	0	-0.014	0.256	0.499	0.000	0.000	-0.016	-0.003	0.000	0.000	0.000	0.000	0	13	0	87	13	0	09: PC13 Non-Nominated			N					N/A	N/A	xxx98
484	23_24 Q4	JR494	WIIM Phase 2 Belfast Ballygomartin North WP			03: Water	08z: Water	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027		100	0	0	0									0.000	0.001	0.000	33	52	3	12	07/01/2020	10/01/2020	01/04/2019	31/01/2021		18/12/2020		100	0	0	0	-0.012	0.000	0.000	0.000	0.070	0.050	-0.062	0.620	0.166	0.000	0.000	100	0	0	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
485	23_24 Q4	JR499	Dorisland Aquaduct Survey			01: Water	03b: Impou	NA																				0.000	0.000	0.000												0	100	0	0	0.000	0.000	0.000	0.000	0.000	0.178	-0.004	-0.006	0.067	0.034	-0.003	0	100	0	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
486	23_24 Q4	JR504	Lough Island Reavy Scour utilisation, Drought Managem			01: Water	03b: Impou	NA																				0.000	0.000	0.000												100	0	0	0	-0.001	0.000	0.000	0.000	0.000	0.028	0.000	0.000	0.000	0.000	0.000	100	0	0	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
487	23_24 Q4	JR511	Lisburn Road 10" watermain replacement			03: Water	08z: Water	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027		100	0	0	0									0.091	0.000	0.000	33	52	3	12	27/11/2020	27/11/2020	14/12/2020	26/11/2021	26/11/2021	17/12/2021		100	0	0	0	-0.012	0.000	0.000	0.000	0.000	0.000	0.030	-0.018	0.126	0.100	0.000	0	100	0	0	100	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
488	23_24 Q4	JR512	Carryduff Strategic watermain repair			03: Water	23c: Trunk	NA																				0.000	0.000	0.000					30/01/2019	13/02/2019					18/11/2019	100	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.049	0.002	0.000	-0.002	0.000	0	100	0	0	100	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
489	23_24 Q4	JR514	Kyle Street NIR Crossing, Watermain			03: Water	23e: Water	NA																				0.000	0.000	0.000					19/08/2019	18/09/2019	30/09/2019	01/02/2021		28/02/2020		100	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010	0.014	0.000	0.000	0	50	0	50	50	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
490	23_24 Q4	JR515	York Street Belfast Interchange - Watermain Diversions			03: Water	23b: Roads	NA																				0.000	0.000	0.000												100	0	0	0	-0.100	0.000	0.000	0.000	0.000	0.000	0.000	0.005	0.090	0.000	0.129	0	100	0	0	100	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
491	23_24 Q4	JR518	Eastern Super Work Package			03: Water	08z: Water	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027	03/09/2025	100	0	0	0									0.792	1.380	1.116	33	52	3	12	01/09/2021	01/09/2021	25/10/2021	11/03/2025	11/03/2025	11/03/2025		100	0	0	0	1.605	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.050	0.870	1.629	1	95	4	0	95	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
492	23_24 Q4	JR519	Whitespots Trunkmain			03: Water	05z: Water	NA	01/04/2021	01/04/2021	01/04/2022	31/03/2023		31/03/2023		100	0	0	0									0.017	0.322	0.000	0	30	0	70	09/05/2022	09/05/2022	06/06/2022	13/10/2022	13/10/2022	21/10/2022		100	0	0	0	-0.066	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.374	0.925	0	42	0	58	42	0	10: PC21 Nominated			N					N/A	N/A	xxx98
493	23_24 Q4	JR521	Dorisland Aqueduct Replacement			01: Water	01z: Base	NA	01/04/2021	01/04/2021	01/04/2022	31/03/2024		31/03/2024		100	0	0	0									0.044	0.660	0.634	0	100	0	0	05/07/2021	05/07/2021	01/10/2021	01/06/2022	01/06/2022	06/06/2022		100	0	0	0	-0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.094	0.521	0	100	0	0	100	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
494	23_24 Q4	JR522	Bangor Road, Holywood, Watermain Extension			03: Water	23a: New	NA																				0.000	0.000	0.000					21/05/2021	21/05/2021	16/08/2021	10/09/2021	10/09/2021	10/09/2021		100	0	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010	0.000	0	0	0	100	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
495	23_24 Q4	JR524	Whitespots Greyabbey Trunkmain			03: Water	05z: Water	NA	01/04/2021	01/04/2021	01/04/2023	31/03/2025		31/03/2025	22/08/2024	100	0	0	0									0.210	1.957	1.895	0	81	0	19	11/08/2022	11/08/2022	10/10/2022	16/04/2024	16/04/2024	16/04/2024		100	0	0	0	2.566	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.107	0	78	0	22	78	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
496	23_24 Q4	JR525	MIP Fast Fill Facility options in the Greater Belfast area			06: Water	20z: Mana	NA																				0.000	0.000	0.000					28/05/2025	28/05/2025	02/01/2023	02/01/2023	02/01/2023	02/01/2023		0	100	0	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	100	0	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
497	23_24 Q4	JR526	Old Park Terrace - NIW Works			03: Water	23z: Water	NA																				0.000	0.000	0.000					07/06/2023	07/06/2023	12/06/2023	30/08/2023	30/08/2023	30/08/2023		100	0	0	0	0.080	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	100	0	0	100	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
498	23_24 Q4	JR530	Watermain for Fast Fill Point - Belfast Water Resilience H			03: Water	05z: Water	NA																				0.000	0.000	0.000					13/12/2024	13/12/2024	23/12/2025	18/03/2027	18/03/2027	18/03/2027		89	11	0	0	0.055	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	0	0	100	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
499	23_24 Q4	JS227	South Down Zone WM Imps			03: Water	08z: Water	NA																				0.000	0.000	0.000					21/07/2009	03/08/2009	03/04/2017	12/03/2012		19/09/2011	01/07/2015	97	3	0	0	0.000	0.001	0.000	0.021	0.000	0.000	0.017	0.002	0.000	0.000	-0.024	36	58	2	4	57	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
500	23_24 Q4	JS274	Drumaroad WTW Clear Water Tank			02: Water	06z: Servic	NA	13/06/2017	13/06/2017	01/10/2019	31/03/2022		31/03/2022		100	0	0	0									1.097	0.000	0.000	0	0	100	0	30/06/2017	30/06/2017	21/10/2019	17/06/2021	17/06/2021	13/10/2021		22	78	0	0	0.000	0.028	0.000	0.012	0.005	0.154	0.822	4.351	7.335	0.991	-0.009	0	0	100	0	0	0	10: PC21 Nominated			N					N/A	N/A	xxx98
501	23_24 Q4	JS293	North Down Bangor Phase 2 Watermain Improvements			03: Water	08z: Water	NA																				0.000	0.000	0.000					17/10/2011	19/10/2011	02/08/2011	27/08/2014		23/04/2013		100	0	0	0	-0.017	0.367	0.000	-0.050	0.000	-0.031	-0.012	0.024	0.000	0.000	0.000	8	86	0	6	86	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
502	23_24 Q4	JS308	Fofanny CWB			04: Service	06z: Servic	NA	01/04/2021	01/04/2021	01/04/2024	31/03/2026		31/03/2026		0	100	0	0									0.051	0.051	0.049	0	0	0	100	29/07/2022	29/07/2022	08/09/2022	05/10/2023	05/10/2023	07/10/2023		0	100	0	0	4.459	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.557	4.667	0	0	0	100	0	0	10: PC21 Nominated			N					N/A	N/A	xxx98

Block A - Project Identification									Block B - Baseline Milestone Dates							Block C - Baseline Service Cost Allocation (%)			
Sort Ref	CIM Submission Reference	Project ID Reference	Project Name	Parent Project ID	Substitute Project ID	Primary Asset Category	PC21 Programme	Regulatory Sign-Off Required	Baseline A1 Date	Baseline Project Approval Date	Baseline Start on Site Date	Baseline Beneficial Use Date	Baseline Regulatory sign-off Date	Baseline Completion of Construction Date	Baseline End of Maintenance Period Date	Baseline Service Allocation Water Infrastructure	Baseline Service Allocation Water Non-Infrastructure	Baseline Service Allocation Sewerage Infrastructure	Baseline Service Allocation Sewerage Non-Infrastructure
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CALC			Total capital expenditure reported																
SORT	CIM_Sub	PI_Project_ID	PI_Project_Name	PI_PARENT_Project_ID	PI_SUBSTITUTE_Project_ID	PI_Pri_Asset_Cat	PI_PC21_Prog	PI_Reg_Signoff	BLM_A1	BLM_Project_Approval	BLM_SoS	BLM_BU	BLM_RSO	BLM_CoC	BLM_EoMP	BSA_W%	BSA_WN%	BSA_S%	BSA_SN%
503	23_24 Q4	JS312	PC15 Year 2 WTW Base Maintenance – East Region			02: Water	01a: WTW	NA											
504	23_24 Q4	JS318	Station Road Saintfield Mains Replacement.			03: Water	23a: New W	NA											
505	23_24 Q4	JS319	Drumaroad Outage Resilience, Professional Services Fra			06: Water	04z: Water	NA											
506	23_24 Q4	JS321	Northern Ireland Drought Mitigation			01: Water	03z: Water	NA											
507	23_24 Q4	JS324	17-23 Ballyreagh Rd Ards Water Main Extension			03: Water	23a: New W	NA											
508	23_24 Q4	JS326	A24 Ballynahinch Bypass			03: Water	23z: Water	NA											
509	23_24 Q4	JS327	High Trees Donaghadee			03: Water	08z: Water	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027		100	0	0	0
510	23_24 Q4	JS328	Drumaroad Treatability Improvements			02: Water	04a: WTW	NA	01/04/2024	01/04/2024	01/04/2025	31/03/2027		31/03/2027		0	100	0	0
511	23_24 Q4	JS331	Mourne Wall Restoration			06: Water	03z: Water	NA	01/04/2021	01/04/2021	01/04/2022	31/03/2025		31/03/2025	07/03/2025	100	0	0	0
512	23_24 Q4	JT256	Lisburn South Rural Phase 1 & Dunmurry watermain imp			03: Water	08z: Water	NA											
513	23_24 Q4	JT261	PC15 Year 3 WTW Capital Maintenance - East Region			02: Water	01a: WTW	NA											
514	23_24 Q4	JT262	Lurgan Moira WIIM 2.1 Work Package			03: Water	08z: Water	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027	18/12/2026	100	0	0	0
515	23_24 Q4	JT266	Sprucefield Park and Ride Watermain Extension			03: Water	23a: New W	NA											
516	23_24 Q4	JT267	Hillsborough Forest Park Watermain Extension			03: Water	08z: Water	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027		100	0	0	0
517	23_24 Q4	JT268	AFM Feasibility trials and filter trial unit modifications			06: Water	20l: Innova	NA											
518	23_24 Q4	JT269	Lisburn North Borehole scheme			01: Water	03z: Water	NA											
519	23_24 Q4	JT270	Aghalislone WPS to Boomers SR Trunk Watermain Repl			03: Water	23c: Trunk	NA											
520	23_24 Q4	JV024	Ballintemple Zone Watermain Improvements			03: Water	08z: Water	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027		100	0	0	0
521	23_24 Q4	JV025	Lough Ross Zone Watermain Improvements			03: Water	08z: Water	NA											
522	23_24 Q4	JV816	Tullyframe S.R.Access road Reconstruction			04: Servic	01z: Base	NA											
523	23_24 Q4	JV841	Fofanny Banbridge Zone Watermain Improvements Phas			03: Water	08z: Water	NA											
524	23_24 Q4	JV844	WP101 Newry Phase2			03: Water	08z: Water	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027		100	0	0	0
525	23_24 Q4	JV854	Silent Valley recreational facilities appraisal			01: Water	03c: Catch	NA											
526	23_24 Q4	JV856	Newry Public Realm Phase 2			03: Water	23b: Roads	NA											
527	23_24 Q4	JV859	Watermain Improvements, Newry, Phase 3			03: Water	08z: Water	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027		100	0	0	0
528	23_24 Q4	JV881	WIIM 1 Phase 2 Carran Hill Crossmaglen WP			03: Water	08z: Water	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027		100	0	0	0
529	23_24 Q4	JV886	Banbridge South Armagh WIIM 2.1 Work Package			03: Water	08z: Water	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027		100	0	0	0
530	23_24 Q4	JV887	Newry West WPS, fire damage			06: Water	01e: WPS	NA											
531	23_24 Q4	JV889	Killeavy Castle Water Distribution Improvements			03: Water	23a: New W	NA											
532	23_24 Q4	JV892	Carnbane Wps Pump Repair/replacement			05: Faciliti	01e: WPS	NA											
533	23_24 Q4	JV893	WIIM 2.2 Foffanny South Work Package			03: Water	08z: Water	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027		100	0	0	0
534	23_24 Q4	JV898	Ballymageogh Road, Kilkeel, Watermain Replacement			03: Water	08z: Water	NA											
535	23_24 Q4	JV899	Newline, Hilltown, Watermain Replacement			03: Water	23z: Water	NA											
536	23_24 Q4	JV900	Mill Road Kilcoo			03: Water	08z: Water	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027		100	0	0	0
537	23_24 Q4	JV901	Fofanny to Alt Trunkmain Phase 1			03: Water	23c: Trunk	NA	01/04/2021	01/04/2021	01/04/2023	31/03/2026		31/03/2026	18/08/2025	100	0	0	0
538	23_24 Q4	JV902	Fofanny Treatability Improvements PC21			02: Water	04a: WTW	NA	01/04/2024	01/04/2024	01/04/2025	31/03/2027		31/03/2027	22/06/2027	0	100	0	0
539	23_24 Q4	JV903	Carran Hill Treatability Improvements PC21			02: Water	04a: WTW	NA	01/04/2024	01/04/2024	01/04/2025	31/03/2027		31/03/2027	14/05/2027	0	100	0	0
540	23_24 Q4	JV904	New Aughnagun Drought Allieviation PS			05: Faciliti	03z: Water	NA							03/08/2026				
541	23_24 Q4	JV906	Silent Valley - Remedial Works			06: Water	20e: Health	NA											
542	23_24 Q4	JV907	Drumaroad WTW PC21 Medium Term Interventions			02: Water	04a: WTW	NA											
543	23_24 Q4	JV908	Drumaroad WTW PC21 Improvements Phase 1			02: Water	04a: WTW	NA							30/06/2025				
544	23_24 Q4	JV909	Seagahan WTW PC27 Improvements			02: Water	04a: WTW	NA											
545	23_24 Q4	JV910	Drumaroad WTW PC21 Improvements Phase 2			02: Water	04a: WTW	NA							19/12/2025				
546	23_24 Q4	JZ005	Water Resource and Supply Resilience Plan			01: Water	03a: WR&S	NA											
547	23_24 Q4	KA213	Sewers Structural Rehabilitation Package 1 (Milltown, Kil			07: Sewera	12a: Plann	NA											
548	23_24 Q4	KA224	Drumsough Road,Randalstown,Sewarage Scheme.			09: Sewag	12z: Sewer	NA							30/12/2022				
549	23_24 Q4	KA233	Blackcave Catchment, Larne - Networks Repairs			07: Sewera	12a: Plann	NA											
550	23_24 Q4	KA234	Glenavy Road Crumlin WWPS Site Investigation			07: Sewera	12b: WwPS	NIEA	01/04/2021	01/04/2021	01/04/2023	31/03/2025	31/03/2025	31/03/2025	27/08/2027	0	0	100	0
551	23_24 Q4	KA239	Mullans WwTW (Antrim)			09: Sewag	16a: WwTW	NIEA											
552	23_24 Q4	KA256	Larne WWTW's Feasibility Study			09: Sewag	16a: WwTW	NIEA	01/04/2021	01/04/2021	01/04/2024	31/03/2027	31/03/2027	31/03/2027		0	0	0	100
553	23_24 Q4	KA262	Islandreagh WWPS Upgrade			12: In-line	12b: WwPS	NIEA											
554	23_24 Q4	KA263	Dunadry WWPS Upgrade			12: In-line	12b: WwPS	NIEA							29/07/2026	0	0	0	100
555	23_24 Q4	KA270	Neillsbrook WwPS Upgrade Appraisal			12: In-line	12c: WwPS	NIEA	01/04/2021	01/04/2021	01/08/2022	31/03/2025	31/03/2025	31/03/2025		0	0	100	0
556	23_24 Q4	KA274	Clare Park, Clare Road, Ballycastle Foul Sewer Ext			07: Sewera	24a: Sewe	NA											
557	23_24 Q4	KA276	Gortgole Road, Portglenone			07: Sewera	24a: Sewe	NA											
558	23_24 Q4	KA277	The Old Station Dunadry Storm sewer			07: Sewera	24a: Sewe	NA											
559	23_24 Q4	KA283	Birch Hill Road, Antrim, Foul & Storm Sewer Extension.			07: Sewera	24a: Sewe	NA											
560	23_24 Q4	KA284	Randalstown TPS(S01425) Screen under capacity.			12: In-line	02b: WwPS	NA											
561	23_24 Q4	KA285	B031428 Lands Opp 142 Upper Road Greenisland, Foul			07: Sewera	24a: Sewe	NA											
562	23_24 Q4	KA286	Ferrard Meadow Antrim Foul Sewer			07: Sewera	24a: Sewe	NA											
563	23_24 Q4	KA287	Carnbank, Templepatrick, Sewage scheme			07: Sewera	24a: Sewe	NA											
564	23_24 Q4	KA289	240,242 Lisnevenagh Road, Antrim DG5 sewer study			07: Sewera	12d: DG5	NA											
565	23_24 Q4	KA290	Dunadry Rd Dunadry Straidballymorris Storm Sewer			07: Sewera	24a: Sewe	NA											
566	23_24 Q4	KA292	The Grange WWTW Catchment Sewerage investigations			07: Sewera	12z: Sewe	NA							01/04/2024				
567	23_24 Q4	KA293	Belmont Rd Antrim Foul Sewer			07: Sewera	24a: Sewe	NA											
568	23_24 Q4	KA294	Devenish Drive Monkstown F&S Sewer			07: Sewera	24a: Sewe	NA											
569	23_24 Q4	KA295	Shanes Castle SE of No. 12 Castle Rd Antrim Foul Sewe			07: Sewera	24a: Sewe	NA											
570	23_24 Q4	KA298	Larne Blackcave DAP			07: Sewera	12b: WwPS	NIEA	01/04/2023	01/04/2023	01/04/2025	31/03/2027	31/03/2027	31/03/2027	18/06/2026	0	0	100	0
571	23_24 Q4	KA299	Cranfield New WwTW - Capacity relief project.			09: Sewag	16z: Waste	NA							23/11/2028				
572	23_24 Q4	KA300	Antrim DA Glenavy Road WwPS, Crumlin			12: In-line	12b: WwPS	NIEA							27/12/2027				
573	23_24 Q4	KA301	Antrim Drainage Area Plan UIDs Phase 1			07: Sewera	12a: Plann	NA											
574	23_24 Q4	KB470	Sevensprings, Ballyhampton Rd, Larne Storm Sewer			07: Sewera	24a: Sewe	NA											
575	23_24 Q4	KB478	Devenagh Burn WWPS - Feasibility Study			07: Sewera	02e: WwPS	NA											
576	23_24 Q4	KB491	Portglenone WWPS Access Road Culverting and Upgrad			05: Faciliti	02b: WwPS	NA							17/02/2028				
577	23_24 Q4	KB504	Cloneen, Crew Rd Maghera Storm Culvert Repl			07: Sewera	24a: Sewe	NA											
578	23_24 Q4	KB517	ONeill Park Ballymaguigan Foul & Storm Sewer Extensic			07: Sewera	24a: Sewe	NA											
579	23_24 Q4	KB522	Toome Road Flood Alleviation			07: Sewera	12d: DG5	NA											
580	23_24 Q4	KB523	157 Larne Road, Ballymena Foul Sewer Ext.			07: Sewera	24a: Sewe	NA											
581	23_24 Q4	KB527	Tobermore Rd, Magherafelt Storm Sewer			07: Sewera	24a: Sewe	NA											
582	23_24 Q4	KB535	PC15 Year 3 WwTW Capital Maintenance – North Regio			09: Sewag	02a: WwTW	NA											
583	23_24 Q4	KB536	Sourhill Road Ballymena Storm Sewer			07: Sewera	24a: Sewe	NA											
584	23_24 Q4	KB540	Fisherstown Cargan-Bankrupt Development site			07: Sewera	24a: Sewe	NA											
585	23_24 Q4	KB542	1 Parkmore Drive Ballymena, Storm Sewer Extension			07: Sewera	24a: Sewe	NA											
586	23_24 Q4	KB543	Ballee Drive Ballymena, Foul & Storm Sewer Extension F			07: Sewera	24a: Sewe	NA											
587	23_24 Q4	KB544	Opposite 249 Orritor Road, Cookstown, Storm Sewer Ex			07: Sewera	24a: Sewe	NA											
588	23_24 Q4	KB546	Desertmartin Rd Magherafelt Storm Sewer			07: Sewera	24a: Sewe	NA											
589	23_24 Q4	KB547	Union Street Magherafelt, Storm Sewer Extension			07: Sewera	24a: Sewe	NA											
590	23_24 Q4	KB550	Spencestown TPS Pump Upgrade			13: Termin	12b: WwPS	NIEA							30/04/2024				
591	23_24 Q4	KB551	Derrycrin WwTW			09: Sewag	16a: WwTW	NIEA	01/04/2021	01/04/2021	01/04/2022	31/03/2025	31/03/2025	31/03/2025	17/06/2025	0	0	0	100
592	23_24 Q4	KB552	Ballyronan WwTW			09: Sewag	16a: WwTW	NIEA	01/04/2021	01/04/2021	01/04/2022	31/03/2025	31/03/2025	31/03/2025	13/03/2026	0	0	0	100
593	23_24 Q4	KB553	Killygonlan WwTW			02: Water	16a: WwTW	NIEA	01/04/2021	01/04/2021	01/04/2024	31/03/2026	31/03/2026	31/03/2026	16/06/2028	0	0	0	100
594	23_24 Q4	KB554	Bellaghy WwTW			09: Sewag	16a: WwTW	NIEA	01/04/2021	01/04/2021		31/03/2026	31/03/2026	31/03/2026	19/06/2028	0	0	0	100
595	23_24 Q4	KB555	Ballymena DAP - Deramore Park CSO			07: Sewera	12b: WwPS	NIEA	01/04/2023	01/04/2023	01/04/2025	31/03/2027	31/03/2027	31/03/2027		0	0	100	0
596	23_24 Q4	KB556	Grange WwTW			09: Sewag	16a: WwTW	NIEA	01/04/2021	01/04/2021	01/04/2024	31/03/2026	31/03/2026	31/03/2026	11/12/2026	0	0	0	100
597	23_24 Q4	KB558	Larne WwTW			09: Sewag	16a: WwTW	NIEA							10/04/2031				
598	23_24 Q4	KB559	Ballymena DAP Spencetown TPS CSO			07: Sewera	12b: WwPS	NIEA											
599	23_24 Q4	KB560	20 Main Street, Conor Flood alleviation			07: Sewera	12d: DG5	NA							04/01/2029				
600	23_24 Q4	KB561	Carrickfergus UID's - Woodburn Road Area			07: Sewera	12b: WwPS	NIEA							26/03/2030				
601	23_24 Q4	KB562	Carrickfergus UID's – Marine Highway Area			07: Sewera	12b: WwPS	NIEA	01/04/2021	01/04/2021	01/04/2022	31/03/2027	31/03/2027	31/03/2027	15/07/2025	0	0	100	0
602	23_24 Q4	KB564	Ballymena DA Phase 1			07: Sewera	12b: WwPS	NIEA							02/04/2027				
603	23_24 Q4	KC296	Ballycastle WwTW			09: Sewag	16a: WwTW	NIEA											
604	23_24 Q4	KC302	Ballintoy WwTW			09: Sewag	16a: WwTW	NIEA											
605	23_24 Q4	KC415	Ballysally CSO Coleraine - Works Package			07: Sewera	12b: WwPS	NIEA											
606	23_24 Q4	KC425	Donaghbrook, Ballymoney - Flooding Alleviation			07: Sewera	12d: DG5	NA											
607	23_24 Q4	KC427	Ballyvoy WwTW			14: Sewera	16a: WwTW	NIEA											
608	23_24 Q4	KC440	North Coast DA Strand Road WwPS			12: In-line	12b: WwPS	NIEA	01/04/2022	01/04/2022	01/04/2024	31/03/2027	31/03/2027	31/03/2027	29/03/2029	0	0	100	0
609	23_24 Q4	KC457	Ballymacrea Road Portrush Foul Sewer Extension			07: Sewera	24a: Sewe	NA											
610	23_24 Q4	KC463	Ballybogy WwTW			09: Sewag	16a: WwTW	NIEA											
611	23_24 Q4	KC464	Bushmills & Portballintrae Drainage Area Plan Network I			07: Sewera	12b: WwPS	NIEA											
612	23_24 Q4	KC469	Society Street Coleraine Storm Sewer Extension			07: Sewera	24a: Sewe	NA											
613	23_24 Q4	KC472	PC15 Yr 2 WwTW Base Maintenance North region			09: Sewag	02a: WwTW	NA											
614	23_24 Q4	KC473	56 Knock Road, Ballymoney Storm Sewer Ext.			07: Sewera	24a: Sewe	NA											
615	23_24 Q4	KC474	Dunluce Road, Flood Alleviation			07: Sewera	12d: DG5	NA											
616	23_24 Q4	KC478	The Cloisters, Bushmills			07: Sewera	24a: Sewe	NA											
617	23_24 Q4	KC479	Main Street Ballykelly – Stormwater Separation			07: Sewera	12g: Storm	NA											
618	23_24 Q4	KC480	B022604 Coleraine Enterprise zone project, Sewer pump			07: Sewera	24a: Sewe	NA											
619	23_24 Q4	KC481	PC15 Year 4 WwTW Base Maintenance – North Region			09: Sewag	02a: WwTW	NA											
620	23_24 Q4	KC483	Corrymeela Community, sewer Extension			07: Sewera	24a: Sewe	NA							24/11/2025				
621	23_24 Q4	KC484	Strand Road, Portrush Storm Sewer			07: Sewera	24a: Sewe	NA											
622	23_24 Q4	KC488	Drumavoley Road Ballycastle Fou Sewer			07: Sewera	24z: Sewe	NA											
623	23_24 Q4	KC489	PC15 Year 5 WwTW Base Maintenance - North Region			09: Sewag	02a: WwTW	NA							06/10/2023				
624	23_24 Q4	KC490	WWTW Year 6 Base Maintenance - North Region			09: Sewag	02a: WwTW	NA											
625	23_24 Q4	KC491	Ballycairn WwPS Emergency Work			07: Sewera	02b: WwPS	NA											
626	23_24 Q4	KC493	North Coast DA - Ballycairn CSO CAI Playing Fields			07: Sewera	12b: WwPS	NIEA	01/04/2022	01/04/2022	01/04/2023	31/03/2025	31/03/2025	31/03/2025	19/11/2025	0	0	100	0
627	23_24 Q4	KC494	Kilrea WwTW			07: Sewera	16a: WwTW	NIEA	01/04/2022	01/04/2022	01/04/2024	31/03/2027	31/03/2027	31/03/2027	07/01/2027	0	0	0	100
628	23_24 Q4	KC496	Maghera DA UID Larganogher Park CSO			07: Sewera	12b: WwPS	NIEA	01/04/2023	01/04/2023	01/04/2025	31/03/2027	31/03/2027	31/03/2027	17/07/2030	0	0	100	0
629	23_24 Q4	KC497	Bushmills DA Priestland Road			07: Sewera	12g: Storm	NA	01/04/2024	01/04/2024	01/04/2025	31/03/2026		31/03/2026	26/06/2026	0	0	100	0
630	23_24 Q4	KC498	Portmore Road Flood Alleviation DG5			07: Sewera	12d: DG5	NA											
631	23_24 Q4	KC499	Westoncroft Avenue, Ballymoney DG5			07: Sewera	12d: DG5	NA											
632	23_24 Q4	KF037	Annagher Sewage Pumping Station and Rising Main			13: Termin	12b: WwPS	NIEA											
633	23_24 Q4	KF345	Killuney Road, Armagh, Foul and Storm Sewer Extensior			07: Sewera	24a: Sewe	NA											
634	23_24 Q4	KF349	Poyntzpass WWTW Feasibility Study			14: Sewera	16a: WwTW	NIEA											
635	23_24 Q4	KF350	Dungannon WWTW phase 2			14: Sewera	16a: WwTW	NIEA							29/05/2023				
636	23_24 Q4	KF355	Markethill WWTW feasibility			14: Sewera	16a: WwTW	NIEA	01/04/2021	01/04/2021	01/04/2023	31/03/2026	31/03/2026	31/03/2026	20/03/2029	0	0	0	100
637	23_24 Q4	KF359	Brompton Park WWPS and Derryhale WWPS Feasibility			12: In-line	12c: WwPS	NIEA							11/12/2023				
638	23_24 Q4	KF362	Annvale SPS Upgrade - Feasibility Study			07: Sewera	12c: WwPS	NIEA	01/04/2022	01/04/2022	01/04/2023	31/03/2026	31/03/2026	31/03/2026	06/04/2028	0	0	100	0
639	23_24 Q4	KF376	Moy WWTW Appraisal Study			09: Sewag	16a: WwTW	NIEA											
640	23_24 Q4	KF377	Knockmoy Park Area Coalisland WwPS Replacement			12: In-line	12c: WwPS	NIEA											
641	23_24 Q4	KF378	Clonmore Road, Clonmore Sewerage Scheme			07: Sewera	12c: WwPS	NIEA	01/04/2021	01/04/2021	01/04/2023	31/03/2025	31/03/2025	31/03/2025		0	0	100	0
642	23_24 Q4	KF383	Killyman Street Moy Storm Sewer Extension			07: Sewera	24a: Sewe	NA											
643	23_24 Q4	KF387	Drelincourt , Armagh, Sewer Network Upgrade.			07: Sewera	12a: Plann	NA											
644	23_24 Q4	KF393	The Hollows, Lurgan - Storm Sewer Requistion			07: Sewera	24a: Sewe	NA											
645	23_24 Q4	KF394	Colebrooke Rd Fivemiletown Storm Sewer			07: Sewera	24a: Sewe	NA											
646	23_24 Q4	KF396	Milford WWPS, Armagh, Upgrade.			12: In-line	12b: WwPS	NIEA											
647	23_24 Q4	KF397	Killylea Road WWPS, Armagh, Upgrade.			12: In-line	12b: WwPS	NIEA											
648	23_24 Q4	KF401	Southern Regional College, Banbridge Storm Sewer			07: Sewera	24a: Sewe	NA											
649	23_24 Q4	KF402	Rear of 11-13 Lurgan Rd, Banbridge Foul Sewer			07: Sewera	24a: Sewe	NA											
650	23_24 Q4	KF403	Keenaghan wwps upgrade			07: Sewera	02e: WwPS	NA											
651	23_24 Q4	KF404	Moy Road, Dungannon (former Oaklin Hotel Site)			07: Sewera	24a: Sewe	NA											
652	23_24 Q4	KF405	Annagh New Wwps,Restoration of assets			07: Sewera	02b: WwPS	NA											
653	23_24 Q4	KF406	Dungannon WwTW emergency Capital Works.			09: Sewag	16a: WwTW	NIEA											
654	23_24 Q4	KF409	Fintona Road, Clogher pumping main			07: Sewera	24a: Sewe	NA											
655	23_24 Q4	KF411	Inn Road, Dollingstown Storm Sewer			07: Sewera	24a: Sewe	NA											
656	23_24 Q4	KF413	Roskeen Rd Moygashel Dungannon F&S Sewer			07: Sewera	24a: Sewe	NA											
657	23_24 Q4	KF414	Killuney Gardens, Armagh Storm Sewer			07: Sewera	24a: Sewe	NA											
658	23_24 Q4	KF415	PC15 Year 5 WwTW Base Maintenance - South Region			09: Sewag	02a: WwTW	NA							06/10/2023				
659	23_24 Q4	KF417	WWTW Year 6 Base Maintenance - South Region			09: Sewag	02a: WwTW	NA											
660	23_24 Q4	KF418	Robinsonstown WwTW			09: Sewag	16a: WwTW	NIEA	01/04/2021	01/04/2021	01/04/2024	31/03/2026	31/03/2026	31/03/2026	31/12/2027	0	0	0	100
661	23_24 Q4	KF419	Moy WwTW			09: Sewag	16a: WwTW	NIEA	01/04/2021	01/04/2021	01/04/2024	31/03/2027	31/03/2027	31/03/2027	27/06/2028	0	0	0	100
662	23_24 Q4	KF421	Moy DA – Keenghan WwPS			12: In-line	12c: WwPS	NIEA	01/04/2024	01/04/2024	01/04/2026	31/03/2027	31/03/2027	31/03/2027	19/07/2028	0	0	100	0
663	23_24 Q4	KF423	Cabragh WwTW			09: Sewag	16a: WwTW	NIEA	01/04/2021	01/04/2021	01/04/2023	31/03/2026	31/03/2026	31/03/2026	23/11/2028	0	0	0	100
664	23_24 Q4	KF425	Dungannon WwTW			09: Sewag	16a: WwTW	NIEA	01/04/2021	01/04/2021	01/04/2023	31/03/2027	31/03/2027	31/03/2027	29/11/2028	0	0	0	100
665	23_24 Q4	KF426	Derryhale DA - Brompon Park WwPS			07: Sewera	12c: WwPS	NIEA	01/04/2021	01/04/2021	01/02/2022	31/03/2024	31/03/2024	31/03/2024	25/11/2027	0	0	100	0
666	23_24 Q4	KF428	Armagh DA Storm Tanks (Tier 2, Red UIDs)			07: Sewera	12b: WwPS	NIEA	01/04/2024	01/04/2024	01/04/2026	31/03/2027	31/03/2027	31/03/2027	27/12/2027	0	0	100	0
667	23_24 Q4	KF429	Dungannon DAP			07: Sewera	12b: WwPS	NIEA	01/04/2021	01/04/2021		31/03/2025	31/03/2025	31/03/2025	20/09/2028	0	0	100	0
668	23_24 Q4	KG041	Maghaberry WwTW			09: Sewag	16a: WwTW	NIEA											
669	23_24 Q4	KG129	Loughgall Road Portadown Storm and Foul Sewer Exter			07: Sewera	24a: Sewe	NA											
670	23_24 Q4	KG140	Waringfield SPS Upgrade			12: In-line	12c: WwPS	NIEA	01/04/2021	01/04/2021	01/02/2022	31/03/2025	31/03/2025	31/03/2025	13/04/2026	0	0	100	0
671	23_24 Q4	KG177	Portadown DAP Stage 2			07: Sewera	12b: WwPS	NIEA	01/04/2023	01/04/2023	01/04/2025	31/03/2027	31/03/2027	31/03/2027	10/01/2030	0	0	100	0
672	23_24 Q4	KG183	Portadown Drainage Area Network Improvements - Mea			07: Sewera	12b: WwPS	NIEA				31/03/2023	31/03/2023	31/03/2023	19/02/2027	0	0	100	0
673	23_24 Q4	KG198	Hunters Mill, Annesborough Road, Lurgan, Storm Sewer			07: Sewera	24a: Sewe	NA											
674	23_24 Q4	KG199	Breagh Rd, Portadown - Storm Sewer			07: Sewera	24a: Sewe	NA											
675	23_24 Q4	KG202	Aghagallon WWTW - MBBR Trial			09: Sewag	16a: WwTW	NIEA											
676	23_24 Q4	KG203	Portadown DAP (Storage at Seagoe WWPS)			07: Sewera	12b: WwPS	NIEA											
677	23_24 Q4	KG214	Tandragee Road, Lurgan - Foul Sewer			07: Sewera	24a: Sewe	NA											
678	23_24 Q4	KG222	Lurgan Road, Moira Storm Sewer Extension			07: Sewera	24a: Sewe	NA											
679	23_24 Q4	KG225	Drumcree Road, SPS			07: Sewera	24a: Sewe	NA											
680	23_24 Q4	KG226	Union Street Lurgan STORM, Storm Sewer Extension			07: Sewera	24a: Sewe	NA											
681	23_24 Q4	KG227	Millenium Way Lurgan Storm Sewer			07: Sewera	24a: Sewe	NA											
682	23_24 Q4	KG232	Drumford Meadows Portadown, Storm Sewer Extension			07: Sewera	24a: Sewe	NA											
683	23_24 Q4	KG234	Waringstown WwTW			09: Sewag	16a: WwTW	NIEA	01/04/2022	01/04/2022	01/04/2023	31/03/2026	31/03/2026	31/03/2026	03/04/2028	0	0	0	100
684	23_24 Q4	KG235	Derryhale DA Dobbin's WwPS			07: Sewera	12c: WwPS	NIEA	01/04/2021	01/04/2021	01/08/2022	31/03/2023	31/03/2023	31/03/2023	13/07/2027	0	0	100	0
685	23_24 Q4	KG236	Annesborough (Lurgan) Wastewater Pumping Main			07: Sewera	12z: Sewe	NA							03/04/2024				
686	23_24 Q4	KG237	Seagoe WwPS Syphons Cleaning			07: Sewera	12a: Plann	NA											
687	23_24 Q4	KG238	Aghacommon CSO Screen			07: Sewera	12b: WwPS	NIEA											
688	23_24 Q4	KH001	Newcastle DA Mourneview Sewerage			07: Sewera	12z: Sewe	NA	01/04/2021	01/04/2021	01/04/2022	31/03/2024		31/03/2024	30/04/2024	0	0	100	0
689	23_24 Q4	KH002	Annsborough WwTW			07: Sewera	16a: WwTW	NIEA	01/04/2021	01/04/2021	01/04/2024	31/03/2027	31/03/2027	31/03/2027	02/08/2028	0	0	0	100
690	23_24 Q4	KH003	Dundrum Catchment Remediation Project			07: Sewera	16z: Waste	NA	01/04/2021	01/04/2021	01/04/2022	31/03/2027		31/03/2027	14/09/2028	0	0	0	100
691	23_24 Q4	KH004	Dundrum WwTW Phase 2			07: Sewera	16a: WwTW	NIEA	01/04/2021	01/04/2021	01/04/2023	31/03/2026	31/03/2026	31/03/2026	07/12/2026	0	0	0	100
692	23_24 Q4	KH005	Downpatrick Network Improvements			07: Sewera	12b: WwPS	NIEA	01/04/2021	01/04/2021	01/04/2022	31/03/2024	31/03/2024	31/03/2024	27/08/2029	0	0	100	0
693	23_24 Q4	KH007	Cannyreagh Road Storm Separation / flood alleviation			07: Sewera	12g: Storm	NA							04/08/2027				
694	23_24 Q4	KH008	Killinchy DA Inisharoan PS			07: Sewera	12b: WwPS	NIEA	01/04/2022	01/04/2022	01/04/2025	31/03/2027	31/03/2027	31/03/2027	01/02/2028	0	0	100	0
695	23_24 Q4	KH009	Portaferry DAP Portaferry No 1 PS (North)			07: Sewera	12b: WwPS	NIEA	01/04/2024	01/04/2024	01/04/2026	31/03/2027	31/03/2027	31/03/2027	13/03/2028	0	0	100	0
696	23_24 Q4	KH010	Ballynahinch DAP			07: Sewera	12b: WwPS	NIEA	01/04/2021	01/04/2021	01/04/2023	31/03/2026	31/03/2026	31/03/2026	04/10/2028	0	0	100	0
697	23_24 Q4	KH012	Ardglass WwTW Cat 5 Feasibility study			09: Sewag	16a: WwTW	NIEA	01/04/2021	01/04/2021	01/04/2022	31/03/2023	31/03/2023	31/03/2023		0	0	0	100
698	23_24 Q4	KH013	Lord Moira Park Flood Alleviation (DG5)			07: Sewera	12d: DG5	NA							27/02/2029				
699	23_24 Q4	KH014	Bangor DAP: Carnalea Stream UID			07: Sewera	12b: WwPS	NIEA											
700	23_24 Q4	KH015	Kircubbin DA			07: Sewera	12b: WwPS	NIEA							31/08/2029				
701	23_24 Q4	KI482	MBR Plants - Long Term Solutions			09: Sewag	02d: WwTW	NA											
702	23_24 Q4	KI487	Backsyphonage Risks at NIW Sites.			09: Sewag	16f: Backs	NA											
703	23_24 Q4	KI503	Pumping Station Maintenance - B McNeill			12: In-line	02e: WwPS	NA											
704	23_24 Q4	KI504	Sewers Structural Rehabilitation PC15 Years 5 & 6			07: Sewera	12a: Plann	NA											
705	23_24 Q4	KI515	DG5 Feasibility Report- Minor Works			07: Sewera	12d: DG5	NA											
706	23_24 Q4	KI519	Wastewater Pumping Stations Overflow Monitoring Prog			12: In-line	12e: Bathin	NA							01/04/2024				
707	23_24 Q4	KI527	Site Drainage & or Chemical Storage Diagrams for WwT			09: Sewag	02d: WwTW	NA											
708	23_24 Q4	KI536	PC15 Sewer Rehabiltation Unplanned			07: Sewera	12a: Plann	NA							01/05/2024				
709	23_24 Q4	KI538	Sewerage New and Renewed including FTS. (Unplanned			07: Sewera	24a: Sewe	NA											
710	23_24 Q4	KI540	Wastewater treatment works belonging to bankrupt deve			07: Sewera	17z: Small	NIEA											
711	23_24 Q4	KI542	Small Rural WWTW Programme PC13			09: Sewag	17z: Small	NIEA											
712	23_24 Q4	KI547	CSO Monitoring PC15			07: Sewera	12e: Bathin	NA											
713	23_24 Q4	KI551	FTS and Minor Sewerage - Professional Services (PC15			07: Sewera	24a: Sewe	NA											
714	23_24 Q4	KI554	Energy Efficiency at WwTW's Screw Pumps			09: Sewag	02c: Energ	NA											
715	23_24 Q4	KI556	Small Rural WWTW Programme - PC15(2015-2021)			09: Sewag	17z: Small	NIEA											
716	23_24 Q4	KI559	PC15 Year 1 WWTW Base Maintenance - East Region			09: Sewag	02a: WwTW	NA											
717	23_24 Q4	KI560	PC15 Year 1 WWTW Base Maintenance – South Region			09: Sewag	02a: WwTW	NA											
718	23_24 Q4	KI561	PC15 Year 1 WWTW Base Maintenance – North Region			09: Sewag	02a: WwTW	NA											
719	23_24 Q4	KI563	Base Maintenance Associated to DG5 Investigations			07: Sewera	12d: DG5	NA											
720	23_24 Q4	KI568	Polluted Stormwater Outfall Solutions - Phase 2			07: Sewera	12f: Miscel	NA											
721	23_24 Q4	KI573	DG5 Programme - Parent Code			07: Sewera	12d: DG5	NA											
722	23_24 Q4	KI583	PC15 Implementation of PC13 Odour & IPPC Strategy			10: Sludge	16e: Odou	NA											
723	23_24 Q4	KI585	LWWP - Wastewater Marine Investment Scoping Study			09: Sewag	16b: Bathin	NIEA								0	0	50	50
724	23_24 Q4	KI586	PC15 Year 2 WwPS Base Maintenance			12: In-line	02b: WwPS	NA											
725	23_24 Q4	KI591	Pitch Fibre Sewer Replacement			07: Sewera	12a: Plann	NA											
726	23_24 Q4	KI592	Sampling and Analysis for WwTW PC15			14: Sewera	02a: WwTW	NA											
727	23_24 Q4	KI594	PC15 Year 3 WwPS Base Maintenance			12: In-line	02b: WwPS	NA											
728	23_24 Q4	KI595	Fire Safety Regulation Compliance			15: Genera	20a: PC15	NA											
729	23_24 Q4	KI596	CSO Monitoring Within Shellfish and Bathing Water Area			07: Sewera	12e: Bathin	NA							01/04/2024				
730	23_24 Q4	KI597	Marine Modelling, Bathing Waters (WwTW and Sewerag			09: Sewag	16b: Bathin	NIEA							26/05/2023	0	0	50	50
731	23_24 Q4	KI598	Marine Modelling, Shellfish Waters Excluding Belfast Lou			09: Sewag	16b: Bathin	NIEA							27/05/2022	0	0	50	50
732	23_24 Q4	KI599	LWWP Belfast SDIP Integrated Environmental Modelling			09: Sewag	16b: Bathin	NIEA							06/08/2024				
733	23_24 Q4	KI601	Strategic Sewerage Network Modelling, Bathing Waters I			07: Sewera	12e: Bathin	NA							15/05/2024				
734	23_24 Q4	KI603	Strategic Sewerage Network Modelling, Shellfish Waters			07: Sewera	12e: Bathin	NA											
735	23_24 Q4	KI604	LWWP Belfast SDIP Drainage Area Studies			07: Sewera	12e: Bathin	NA							15/05/2024				
736	23_24 Q4	KI605	LWWP - Storm water separation pilot study phase 2			07: Sewera	12g: Storm	NA											
737	23_24 Q4	KI607	NI Long Term Sludge Strategy			11: Sludge	02c: Energ	NA											
738	23_24 Q4	KI608	Programme and Cost Management			15: Genera	01z: Base	NA											
739	23_24 Q4	KI609	Integrated Delivery Services.			15: Genera	09z: Leaka	NA											
740	23_24 Q4	KI611	Missing Data From CAR			15: Genera	20z: Mana	NA							02/05/2024				
741	23_24 Q4	KI613	Preparedness and Assistance in Cost Setting			07: Sewera	20z: Mana	NA											
742	23_24 Q4	KI614	WWPS base Maint Yrs 4,5 & 6			12: In-line	02b: WwPS	NA											
743	23_24 Q4	KI618	Trade Effluent Consenting of Launderettes			07: Sewera	12z: Sewe	NA											
744	23_24 Q4	KI620	Integrated Partnership Framework			14: Sewera	12z: Sewe	NA											
745	23_24 Q4	KI625	Tankered Trade Effluent Strategy			07: Sewera	20z: Mana	NA											
746	23_24 Q4	KI626	Energy Efficiency Programme			07: Sewera	02c: Energ	NA								0	50	0	50
747	23_24 Q4	KI627	Provision of professional services for Strategic Client			14: Sewera	20a: PC15	NA											
748	23_24 Q4	KI628	NIAMP5 Project Support			15: Genera	20a: PC15	NA								18	10	31	41
749	23_24 Q4	KI629	First Time Services Programme			07: Sewera	24a: Sewe	NA											
750	23_24 Q4	KI630	Wastewater modelling for new development			07: Sewera	24a: Sewe	NA							06/10/2023				
751	23_24 Q4	KI631	Appointment of Technical Specialist for CNI Alarm Syste			06: Water	02z: Base	NA											
752	23_24 Q4	KI632	Review of condition of supported steel walkways and per			14: Sewera	02z: Base	NA											
753	23_24 Q4	KI633	Asbestos Surveys of NIW Sites			15: Genera	20e: Health	NA											
754	23_24 Q4	KI634	FCOM (MCert) WwTW Re-Certification			09: Sewag	16z: Waste	NA											
755	23_24 Q4	KI635	Strategic Sewerage Network Modelling			07: Sewera	12e: Bathin	NA											
756	23_24 Q4	KI636	Sewer Maintenance and CCTV Programme 2019-21			07: Sewera	12a: Plann	NA											
757	23_24 Q4	KI637	Operational Risk and Affordability Investigations			15: Genera	20z: Mana	NA											

Sort Ref	Block D - Baseline Expenditure Profile (£m 2018-19 prices)											Block E - Baseline Purpose Allocation				Block F - Current Actual or Projected Milestone Dates							Block G - Current Actual or Projected Service Cost Allocation			
	Baseline CAPEX 2013-14 £m	Baseline CAPEX 2014-15 £m	Baseline CAPEX 2015-16 £m	Baseline CAPEX 2016-17 £m	Baseline CAPEX 2017-18 £m	Baseline CAPEX 2018-19 £m	Baseline CAPEX 2019-20 £m	Baseline CAPEX 2020-21 £m	Baseline CAPEX 2021-22 £m	Baseline CAPEX 2022-23 £m	Baseline CAPEX 2023-24 £m	Baseline Purpose Allocation Quality	Baseline Purpose Allocation Base	Baseline Purpose Allocation ESL	Baseline Purpose Allocation Growth	Current Actual or Projected A1 Date	Current Actual or Projected Project Approval Date	Current Actual or Projected Start on Site Date	Current Actual or Projected Beneficial Use Date	Current Actual or Projected Regulatory sign-off Date	Current Actual or Projected Completion of Construction Date	Current Actual or Projected End of Maintenance Period Date	Current Actual or Projected Service Allocation Water Infrastructure	Current Actual or Projected Service Allocation Water Non-Infrastructure	Current Actual or Projected Service Allocation Sewerage Infrastructure	Current Actual or Projected Service Allocation Sewerage Non-Infrastructure
1	21	22	23	24	25	26	27	28	29	30	31	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52
CALC	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	187.697	252.949	319.021															
SORT	BL_Capex_2013-14_£m	BL_Capex_2014-15_£m	BL_Capex_2015-16_£m	BL_Capex_2016-17_£m	BL_Capex_2017-18_£m	BL_Capex_2018-19_£m	BL_Capex_2019-20_£m	BL_Capex_2020-21_£m	BL_Capex_2021-22_£m	BL_Capex_2022-23_£m	BL_Capex_2023-24_£m	BLPA_Q%	BLPA_B%	BLPA_E%	BLPA_G%	CAM_A1	CAM_ProjectApproval	CAM_SoS	CAM_BU	CAM_RSO	CAM_CoC	CAM_EoMP	CASA_W%	CASA_WN%	CASA_S%	CASA_SN%
503									0.000	0.000	0.000					05/03/2016	09/03/2016						0	100	0	0
504									0.000	0.000	0.000					10/10/2018	23/10/2018						100	0	0	0
505									0.000	0.000	0.000					06/07/2021	06/07/2021						50	50	0	0
506									0.000	0.000	0.000					23/07/2018	24/07/2018						100	0	0	0
507									0.000	0.300	0.000					03/05/2019	20/05/2019	09/09/2019	31/03/2020		29/11/2019	26/03/2021	100	0	0	0
508									0.000	0.000	0.000												100	0	0	0
509									0.073	0.001	0.000	33	52	3	12	24/08/2020	24/08/2020	12/04/2021	01/09/2021	01/09/2021	01/09/2021		100	0	0	0
510									-0.002	0.021	0.205	0	0	100	0	25/11/2022	25/11/2022	19/12/2022	29/09/2023	29/09/2023	29/09/2023		0	100	0	0
511									0.000	1.139	1.139	0	100	0	0	15/07/2022	15/07/2022	10/08/2022	08/03/2024	08/03/2024	08/03/2024		0	100	0	0
512									0.000	0.000	0.000					17/10/2014	21/10/2014				26/03/2015	29/02/2016	100	0	0	0
513									0.000	0.000	0.000					04/08/2017	09/08/2017						0	100	0	0
514									1.240	1.036	0.980	33	52	3	12	05/05/2021	05/05/2021	05/05/2021	31/10/2025	31/10/2025	31/10/2025		100	0	0	0
515									0.000	0.000	0.000					14/02/2022	14/02/2022	12/04/2022	19/05/2023	19/05/2023	19/05/2023		100	0	0	0
516									0.055	0.000	0.000	33	52	3	12	12/10/2021	20/10/2021				31/12/2021	10/12/2021	100	0	0	0
517									0.000	0.000	0.000					09/12/2021	16/12/2021	24/12/2021	24/02/2022		24/02/2022		0	100	0	0
518									0.000	0.000	0.000					19/02/2025	19/02/2025	24/08/2026	17/11/2027	17/11/2027	17/11/2027		0	100	0	0
519									0.000	0.000	0.000					07/08/2024	07/08/2024	02/09/2025	27/11/2026	27/11/2026	27/11/2026		100	0	0	0
520									0.012	0.000	0.000	33	52	3	12	17/11/2011	18/11/2011	23/05/2011	08/10/2013		06/05/2013		90	10	0	0
521									0.000	0.000	0.000					02/04/2010	26/04/2010	06/09/2010	27/11/2012		13/02/2012		100	0	0	0
522									0.000	0.000	0.000												0	100	0	0
523									0.000	0.000	0.000					24/05/2011	01/06/2011	12/01/2011	06/03/2013		16/10/2013		92	8	0	0
524									0.000	0.002	0.000	33	52	3	12	03/11/2011	08/11/2011	02/08/2011	29/06/2015		24/06/2014		100	0	0	0
525									0.000	0.000	0.000					31/10/2016	02/11/2016						100	0	0	0
526									0.000	0.000	0.000					06/01/2014	14/01/2014				26/05/2014		100	0	0	0
527									0.031	0.000	0.000	33	52	3	12	17/01/2014	10/02/2014				26/05/2014	01/07/2015	100	0	0	0
528									0.000	0.024	0.000	33	52	3	12	14/10/2016	17/10/2016						100	0	0	0
529									0.144	0.000	0.000	33	52	3	12	06/02/2019	06/02/2019	01/11/2019	08/11/2021	08/11/2021	08/11/2021		100	0	0	0
530									0.000	0.000	0.000					21/08/2017	25/08/2017	02/10/2017	08/11/2019				0	100	0	0
531									0.000	0.000	0.000					02/07/2018	05/07/2018						100	0	0	0
532									0.000	0.000	0.000												0	100	0	0
533									1.086	0.249	0.208	33	52	3	12	05/02/2020	05/02/2020	01/04/2020	29/11/2023	29/11/2023	28/11/2023		100	0	0	0
534									0.000	0.000	0.000					29/11/2019	29/11/2019						100	0	0	0
535									0.000	0.000	0.000					29/11/2019	29/11/2019	31/01/2020	19/06/2020		30/04/2020	26/03/2021	100	0	0	0
536									0.053	0.000	0.000	33	52	3	12	15/07/2021	27/07/2021						100	0	0	0
537									0.125	0.125	1.552	0	100	0	0	13/12/2022	13/12/2022	22/04/2022	20/12/2024	20/12/2024	20/12/2024		100	0	0	0
538									0.000	0.000	0.000	0	12	88	0	15/01/2026	15/01/2026	09/04/2026	29/03/2027	29/03/2027	29/03/2027		0	100	0	0
539									0.000	0.004	0.036	0	22	78	0	24/07/2024	24/07/2024	28/10/2025	22/01/2027	22/01/2027	22/01/2027		0	100	0	0
540									0.000	0.000	0.000					27/11/2024	27/11/2024	02/01/2025	30/03/2026	30/03/2026	30/03/2026		0	100	0	0
541									0.000	0.000	0.000					16/01/2024	16/01/2024	27/02/2023	16/01/2024	16/01/2024	16/01/2024		0	100	0	0
542									0.000	0.000	0.000												0	100	0	0
543									0.000	0.000	0.000					30/08/2023	30/08/2023	04/09/2023	28/03/2024	28/03/2024	28/03/2024		0	100	0	0
544									0.000	0.000	0.000					23/08/2023	23/08/2023	29/09/2023			27/05/2025		0	100	0	0
545									0.000	0.000	0.000					09/05/2024	09/05/2024	05/06/2025	31/08/2026	31/08/2026	31/08/2026		0	100	0	0
546									0.000	0.000	0.000					20/10/2014	22/10/2014						100	0	0	0
547									0.000	0.000	0.000					16/12/2013	19/12/2013						0	0	100	0
548									0.000	0.000	0.000					17/07/2024	17/07/2024	24/07/2024	17/06/2025	17/06/2025	17/06/2025		0	0	53	47
549									0.000	0.000	0.000					30/09/2011	05/10/2011	04/05/2015	30/09/2015		30/09/2015		0	0	100	0
550									0.000	0.230	0.322	70	22	0	8	21/04/2016	21/04/2016	01/04/2024	01/04/2024	01/04/2024	01/04/2024		0	0	13	87
551									0.000	0.000	0.000					02/12/2015	03/12/2015	18/09/2017	29/03/2018		29/09/2017		0	0	0	100
552									0.000	0.276	0.568	0	8	0	92	06/10/2023	06/10/2023	15/11/2023	07/02/2025	07/02/2025	07/02/2025		0	0	0	100
553									0.000	0.000	0.000					23/10/2020	28/10/2020					02/07/2021	0	0	0	100
554									0.005	0.348	0.148	52	35	0	13	31/05/2024	31/05/2024	26/06/2024	27/06/2025	27/06/2025	27/06/2025		0	0	17	83
555									0.000	0.000	0.040	72	21	0	7	03/02/2023	03/02/2023	17/02/2023	08/11/2023	08/11/2023	08/11/2023		0	0	0	100
556									0.000	0.000	0.000					23/08/2017	23/08/2017	04/09/2017	24/11/2017			22/01/2019	0	0	100	0
557									0.000	0.000	0.000					04/03/2019	12/03/2019					28/02/2020	0	0	100	0
558									0.000	0.000	0.000					04/10/2017	04/10/2017	21/11/2017	19/01/2018		19/01/2018	18/09/2018	0	0	100	0
559									0.000	0.000	0.000					21/02/2018	21/02/2018						0	0	100	0
560									0.000	0.000	0.000												0	0	0	100
561									0.000	0.000	0.000					30/08/2018	30/08/2018	07/10/2019	18/10/2019		21/10/2019	21/09/2020	0	0	100	0
562									0.000	0.000	0.000					10/09/2018	02/10/2018	29/10/2018	20/02/2019		11/02/2019	29/01/2020	0	0	100	0
563									0.000	0.000	0.000					25/02/2021	01/03/2021	12/05/2021	29/07/2021		29/07/2021	17/09/2021	0	0	100	0
564									0.000	0.000	0.000					27/02/2020	27/02/2020	22/03/2021	23/04/2021	23/04/2021	23/04/2021		0	0	100	0
565									0.000	0.000	0.000					04/09/2019	04/09/2019						0	0	100	0
566									0.000	0.000	0.000					30/06/2021	30/06/2021	30/07/2021	31/03/2022	31/03/2022	31/03/2022		0	0	100	0
567									0.000	0.000	0.000					19/05/2022	20/05/2022	14/06/2022			31/03/2023		0	0	100	0
568									0.000	0.000	0.000					11/11/2019	11/11/2019				11/02/2020	07/06/2021	0	0	100	0
569									0.000	0.000	0.000					27/02/2020	27/02/2020	25/05/2020	10/06/2020		12/06/2020	07/06/2021	0	0	100	0
570									0.000	0.101	0.495	96	4	0	0	15/05/2024	15/05/2024	24/07/2024	13/02/2025	13/02/2025	13/02/2025		0	0	100	0
571									0.000	0.000	0.000					09/07/2025	09/07/2025	04/08/2026	28/10/2027	28/10/2027	28/10/2027		0	0	0	100
572									0.000	0.000	0.000					02/10/2024	02/10/2024	20/11/2025	27/11/2026	27/11/2026	27/11/2026		0	0	2	98
573									0.000	0.000	0.000												0	0	100	0
574									0.000	0.000	0.000					28/09/2011	03/10/2011	09/02/2015	24/04/2015		24/04/2015	08/07/2015	0	0	100	0
575									0.000	0.000	0.000					06/09/2016	07/09/2016						0	0	0	100
576									0.000	0.000	0.000					22/10/2024	22/10/2024	28/10/2025	21/01/2027	21/01/2027	21/01/2027		0	0	85	15
577									0.000	0.000	0.000					22/08/2014	17/09/2014						0	0	100	0
578									0.000	0.000	0.000					03/02/2015	03/02/2015						0	0	100	0
579									0.000	0.000	0.000					18/02/2019	20/02/2019					10/12/2020	0	0	100	0
580									0.000	0.000	0.000					06/06/2016	06/06/2016						0	0	100	0
581									0.000	0.000	0.000					20/01/2016	20/01/2016						0	0	100	0
582									0.000	0.000	0.000					27/01/2017	02/02/2017						0	0	0	100
583									0.000	0.000	0.000					19/12/2017	19/12/2017	27/08/2018	11/09/2018		24/09/2018	04/12/2018	0	0	100	0
584									0.000	0.000	0.000												0	0	0	100
585									0.000	0.000	0.000					29/10/2018	29/10/2018		14/10/2019		16/10/2019	25/03/2021	0	0	100	0
586									0.000	0.000	0.000					11/12/2018	11/12/2018				16/04/2019	18/03/2021	0	0	100	0
587									0.000	0.000	0.000					18/04/2019	20/05/2019		03/07/2019		04/07/2019	11/06/2020	0	0	100	0
588									0.000	0.000	0.000					26/05/2020	26/05/2020				04/09/2020	13/04/2022	0	0	100	0
589									0.000	0.000	0.000					11/01/2019	17/01/2019	18/02/2019	21/03/2019		29/03/2019	12/09/2019	0	0	100	0
590									0.000	0.000	0.000					11/10/2022	11/10/2022	08/11/2022	17/08/2023	17/08/2023	26/09/2023		0	0	0	100
591									0.183	0.892	0.797	34	0	0	66	01/07/2022	01/07/2022	04/07/2022	17/11/2023	17/11/2023	29/05/2024		0	0	0	100
592									0.032	0.660	1.174	29	0	0	71	15/03/2022	15/03/2022	18/08/2022	03/07/2024	03/07/2024	19/07/2024		0	0	0	100
593									-0.001	-0.001	-0.001	63	0	0	37	24/04/2025	24/04/2025	24/06/2025	18/12/2026	18/12/2026	18/12/2026		0	0	0	100
594									0.008	0.072	0.080	0	24	0	76	26/02/2025	26/02/2025	04/08/2025	16/12/2026	16/12/2026	16/12/2026		0	0	0	100
595									0.020	0.060	0.146	97	3	0	0	02/11/2023	02/11/2023	16/05/2024	14/05/2026	14/05/2026	14/05/2026		0	0	100	0
596									0.008	0.039	0.046	0	16	0	84	13/03/2023	13/03/2023	31/03/2023	25/04/2025	25/04/2025	13/05/2025		0	0	0	100
597									0.000	0.000	0.000					28/08/2025	28/08/2025	31/05/2027	05/12/2029	05/12/2029	05/12/2029		0	0	0	100
598									0.000	0.000	0.000												0	0	100	0
599									0.000	0.000	0.000					01/08/2025	01/08/2025	11/09/2025	10/12/2026	10/12/2026	10/12/2026		0	0	100	0
600									0.000	0.000	0.000					10/11/2027	10/11/2027	12/12/2028	04/12/2029	04/12/2029	04/12/2029		0	0	90	10
601									0.000	0.000	0.036	83	17	0	0	17/04/2023	17/04/2023	15/09/2023	10/01/2025	10/01/2025	10/01/2025		0	0	90	10
602									0.000	0.000	0.000					27/02/2026	27/02/2026	27/08/2025	30/04/2026	30/04/2026	30/04/2026		0	0	100	0
603									0.000	0.000	0.000					09/06/2014	03/07/2014						0	0	10	90
604									0.000	0.000	0.000					07/12/2015	10/12/2015	01/04/2017	24/01/2020		31/03/2020		0	0	0	100
605									0.000	0.000	0.000					21/11/2014	25/11/2014						0	0	100	0
606									0.000	0.000	0.000												0	0	100	0
607									0.000	0.000	0.000					15/09/2016	15/09/2016				30/03/2021	26/03/2021	0	0	0	100
608									0.813	2.368	2.201	54	12	0	34	31/07/2025	31/07/2025	02/10/2025	30/09/2027	30/09/2027	30/09/2027		0	0	0	100
609									0.000	0.000	0.000					21/10/2013	28/10/2013	19/05/2014	28/11/2014		09/06/2014	18/11/2015	0	0	100	0
610									0.000	0.000	0.000					16/09/2019	18/09/2019				30/03/2021	18/11/2021	0	0	0	100
611									0.000	0.000	0.000												0	0	100	0
612									0.000	0.000	0.000					04/08/2015	04/08/2015	13/06/2016	13/09/2016		22/07/2016		0	0	100	0
613									0.000	0.000	0.000					23/02/2016	29/02/2016						0	0	0	100
614									0.000	0.000	0.000					29/10/2021	29/10/2021	23/02/2022	25/03/2022		28/03/2022		0	0	100	0
615									0.000	0.000	0.000					14/01/2019	17/01/2019	25/02/2019	29/03/2019		22/03/2019	27/08/2019	0	0	100	0
616									0.000	0.000	0.000					16/08/2017	16/08/2017	26/02/2018	28/03/2018		30/03/2018	14/03/2019	0	0	100	0
617									0.000	0.000	0.000					20/05/2019	03/06/2019	07/06/2019	16/08/2019		31/10/2019		0	0	100	0
618									0.000	0.000	0.000					19/12/2017	19/12/2017	05/02/2018	28/03/2018			25/05/2018	0	0	100	0
619									0.000	0.000	0.000					05/01/2018	16/01/2018	01/05/2018			29/04/2019		0	0	0	100
620									0.000	0.000	0.000					28/07/2022	28/07/2022	01/04/2024	25/10/2024	25/10/2024	25/10/2024		0	0	50	50
621									0.000	0.000	0.000					10/05/2019	10/05/2019		20/09/2019		17/09/2019	18/03/2021	0	0	100	0
622									0.000	0.000	0.000					19/08/2019	19/08/2019		16/12/2019		18/12/2019	07/06/2021	0	0	100	0
623									0.000	0.000	0.000					10/01/2019	10/01/2019	22/07/2019	31/03/2021	31/03/2021	31/03/2021		0	0	0	100
624									0.000	0.000	0.000					08/11/2019	25/11/2019						0	0	0	100
625									0.000	0.000	0.000					17/06/2020	02/07/2020	28/07/2020	03/06/2020		31/08/2020		0	0	100	0
626									0.014	0.134	0.130	84	16	0	0	26/07/2023	26/07/2023	01/11/2023	31/07/2024	31/07/2024	31/07/2024		0	0	100	0
627									0.010	1.458	1.416	92	0	0	8	01/02/2023	01/02/2023	17/07/2023	26/08/2025	26/08/2025	26/08/2025		0	0	0	100
628									0.000	0.000	0.014	89	11	0	0	31/03/2027	31/03/2027	20/10/2027	13/03/2029	13/03/2029	13/03/2029		0	0	71	29
629									0.000	0.000	0.000	92	8	0	0	07/08/2024	07/08/2024	04/10/2024	31/03/2025	31/03/2025	31/03/2025		0	0	100	0
630									0.000	0.000	0.000												0	0	100	0
631									0.000	0.000	0.000												0	0	100	0
632									0.000	0.000	0.000					05/04/2012	01/05/2012	28/02/2013	19/02/2015		28/08/2015		0	0	35	65
633									0.000	0.000	0.000					15/09/2014	21/10/2014	04/07/2016	25/10/2016		19/10/2016	28/03/2017	0	0	100	0
634									0.000	0.000	0.000					04/05/2020	04/05/2020						0	0	0	100
635									0.000	0.000	0.000					01/05/2020	01/05/2020	01/02/2022	02/03/2023	02/03/2023	02/03/2023		0	0	0	100
636									0.004	0.201	0.719	0	38	0	62	17/05/2024	17/05/2024	13/11/2024	27/05/2027	27/05/2027	27/05/2027		0	0	0	100
637									0.000	0.000	0.000					22/07/2015	22/07/2015	01/12/2023	08/12/2023	08/12/2023	08/12/2023		0	0	0	100
638									0.045	0.635	0.611	82	18	0	0	05/11/2024	05/11/2024	25/09/2025	17/12/2026	17/12/2026	17/12/2026		0	0	0	100
639									0.000	0.000	0.000					26/10/2021	26/10/2021						0	0	0	100
640									0.000	0.000	0.000					15/12/2014	17/12/2014	28/09/2015	23/03/2017		31/03/2015		0	0	0	100
641									0.035	0.320	0.310	35	30	0	35	17/06/2016	17/06/2016	01/06/2022	10/02/2023	10/02/2023	10/02/2023		0	0	12	88
642									0.000	0.000	0.000					22/05/2015	02/06/2015	02/11/2015	30/11/2015		30/11/2015	12/02/2016	0	0	100	0
643									0.000	0.000	0.000					26/09/2019	26/09/2019	06/11/2017	22/01/2019		24/08/2018		0	0	100	0
644									0.000	0.000	0.000					10/12/2015	10/12/2015						0	0	100	0
645									0.000	0.000	0.000					01/07/2016	01/07/2016						0	0	100	0
646									0.000	0.000	0.000					19/01/2017	20/01/2017	30/01/2017	04/08/2017		31/10/2017	03/08/2018	0	0	0	100
647									0.000	0.000	0.000					17/12/2018	18/12/2018						0	0	45	55
648									0.000	0.000	0.000					30/08/2017	30/08/2017	30/04/2018	12/06/2018		11/06/2018	25/10/2019	0	0	100	0
649									0.000	0.000	0.000					29/05/2018	29/05/2018						0	0	100	0
650									0.000	0.000	0.000					03/02/2022	03/02/2022						0	0	0	100
651									0.000	0.000	0.000					02/11/2020	11/11/2020	16/11/2020			05/02/2021		0	0	100	0
652									0.000	0.000	0.000												0	0	0	100
653									0.000	0.000	0.000					05/07/2017	10/07/2017	29/01/2018	01/05/2019				0	0	0	100
654									0.000	0.000	0.000					13/08/2019	13/08/2019		08/01/2020		10/01/2020		0	0	100	0
655									0.000	0.000	0.000					20/07/2022	20/07/2022	03/10/2022	09/11/2022		11/11/2022		0	0	100	0
656									0.000	0.000	0.000					16/01/2020	23/01/2020	02/03/2020	04/06/2020		05/06/2020		0	0	100	0
657									0.000	0.000	0.000					07/06/2019	07/06/2019	05/08/2019	16/08/2019		19/08/2019	11/06/2020	0	0	100	0
658									0.000	0.000	0.000					20/02/2019	20/02/2019	01/03/2021	31/03/2021	31/03/2021	31/03/2021		0	0	0	100
659									0.000	0.000	0.000					08/11/2019	25/11/2019						0	0	0	100
660									-0.001	-0.001	0.124	0	0	0	100	07/08/2024	07/08/2024	11/12/2024	08/12/2026	08/12/2026	08/12/2026		0	0	0	100
661									0.000	0.000	0.000	0	16	0	84	02/01/2025	02/01/2025	29/04/2025	08/03/2027	08/03/2027	08/03/2027		0	0	0	100
662									0.018	0.035	0.964	0	18	0	82	16/01/2025	16/01/2025	20/05/2025	30/03/2027	30/03/2027	30/03/2027		0	0	0	100
663									0.000	0.000	0.063	50	35	0	15	20/09/2024	20/09/2024	02/01/2025	03/11/2026	03/11/2026	03/11/2026		0	0	0	100
664									-0.034	-0.025	1.167	62	0	0	38	04/04/2023	04/04/2023	01/05/2023	31/03/2027	31/03/2027	31/03/2027		0	0	0	100
665									0.044	0.416	0.405	0	30	0	70	09/07/2024	09/07/2024	21/04/2025	22/05/2026	22/05/2026	22/05/2026		0	0	0	100
666									0.000	0.000	0.000	49	12	0	39	03/12/2024	03/12/2024	03/07/2025	25/12/2026	25/12/2026	25/12/2026		0	0	100	0
667									0.000	0.000	0.473	84	16	0	0	16/05/2025	16/05/2025	06/04/2026	31/03/2027	31/03/2027	31/03/2027		0	0	100	0
668									0.000	0.000	0.000					13/09/2016	15/09/2016				30/10/2020	12/02/2020	0	0	0	100
669									0.000	0.000	0.000					15/10/2019	15/10/2019		23/09/2020		07/02/2020	25/02/2021	0	0	100	0
670									0.037	0.280	0.510	68	20	0	12	23/08/2023	23/08/2023	01/04/2024	30/01/2025	30/01/2025	06/12/2024		0	0	17	83
671									0.000	0.000	0.151	27	0	0	73	26/06/2024	26/06/2024	23/09/2025	08/08/2028	08/08/2028	08/08/2028		0	0	27	73
672									0.571	3.251	1.425	66	27	0	7	02/12/2022	02/12/2022	01/03/2023	17/10/2025	17/10/2025	17/10/2025		0	0	83	17
673									0.000	0.000	0.000					17/01/2022	17/01/2022	11/04/2022	31/10/2022	31/10/2022	31/10/2022		0	0	100	0
674									0.000	0.000	0.000					25/09/2013	04/10/2013						0	0	100	0
675									0.000	0.000	0.000					10/03/2014	13/03/2014				29/06/2015	07/10/2020	0	0	0	100
676									0.000	0.000	0.000												0	0	100	0
677									0.000	0.000	0.000					09/05/2018	09/05/2018	02/07/2018	06/07/2018			25/01/2019	0	0	100	0
678									0.000	0.000	0.000					13/02/2020	13/02/2020				08/05/2020	21/10/2021	0	0	100	0
679									0.000	0.000	0.000					10/11/2020	18/11/2020				25/06/2021		0	0	50	50
680									0.000	0.000	0.000					01/07/2019	01/07/2019	16/09/2019	21/10/2019		22/10/2019	11/06/2020	0	0	100	0
681									0.000	0.000	0.000					14/05/2021	14/05/2021				20/08/2021		0	0	100	0
682									0.000	0.000	0.000					31/07/2020	31/07/2020				28/10/2022		0	0	100	0
683									0.029	0.257	0.470	0	0	0	100	01/11/2024	01/11/2024	02/12/2024	02/12/2026	02/12/2026	30/10/2026		0	0	0	100
684									0.022	0.417	0.000	0	47	0	53	01/11/2023	01/11/2023	20/02/2025	24/02/2026	24/02/2026	24/02/2026		0	0	0	100
685									0.000	0.000	0.000					10/02/2023	10/02/2023	27/02/2023	20/09/2023	20/09/2023	20/09/2023		0	0	100	0
686									0.000	0.000	0.000					15/09/2026	15/09/2026	22/07/2024	27/09/2024	27/09/2024	27/09/2024		0	0	100	0
687									0.000	0.000	0.000												0	0	50	50
688									0.035	0.335	0.330	0	8	92	0	15/05/2024	15/05/2024	08/08/2024	22/08/2024	22/08/2024	22/08/2024		0	0	100	0
689									0.000	0.345	2.077	0	32	0	68	20/12/2024	20/12/2024	12/02/2025	01/04/2027	01/04/2027	01/04/2027		0	0	0	100
690									0.000	0.156	0.243	100	0	0	0	30/10/2024	30/10/2024	29/11/2024	26/03/2027	26/03/2027	26/03/2027		0	0	100	0
691									0.000	0.000	0.037	86	2	0	12	19/07/2024	19/07/2024	21/08/2024	10/07/2025	10/07/2025	16/06/2025		0	0	0	100
692									0.000	0.000	0.000	47	45	0	8	20/11/2024	20/11/2024	17/01/2025	16/06/2027	16/06/2027	16/06/2027		0	0	100	0
693									0.000	0.000	0.000					18/09/2025	18/09/2025	14/04/2025	31/03/2026	31/03/2026	31/03/2026		0	0	100	0
694									0.000	0.015	0.030	82	18	0	0	04/11/2024	04/11/2024	21/02/2025	04/01/2027	04/01/2027	04/01/2027		0	0	100	0
695									0.000	0.000	0.000	99	1	0	0	09/12/2024	09/12/2024	10/07/2025	12/02/2027	12/02/2027	12/02/2027		0	0	100	0
696									0.000	0.050	0.099	85	15	0	0	09/01/2025	09/01/2025	29/07/2026	01/06/2027	01/06/2027	01/06/2027		0	0	79	21
697									0.000	0.000	0.000	76	0	0	24	21/05/2024	21/05/2024	01/04/2024	01/04/2024	01/04/2024	01/04/2024		0	0	0	100
698									0.000	0.000	0.000					22/05/2025	22/05/2025	09/04/2026	10/12/2026	10/12/2026	10/12/2026		0	0	100	0
699									0.000	0.000	0.000					20/01/2027	20/01/2027	03/04/2025	18/05/2026	18/05/2026	18/05/2026		0	0	3	97
700									0.000	0.000	0.000					11/09/2025	11/09/2025	19/11/2026	28/04/2028	28/04/2028	28/04/2028		0	0	62	38
701									0.000	0.000	0.000					19/03/2021	19/03/2021						0	0	0	100
702									0.000	0.000	0.000					14/11/2016	14/11/2016						0	30	0	70
703									0.000	0.000	0.000					21/11/2012	28/11/2012	30/11/2012	30/03/2015		25/07/2014		0	0	0	100
704									0.000	0.000	0.000					01/04/2019	01/04/2019	02/07/2019	10/12/2021	10/12/2021	10/12/2021		0	0	100	0
705									0.000	0.000	0.000					28/11/2017	05/12/2017						0	0	100	0
706									0.000	0.000	0.000					05/09/2018	05/09/2018	24/09/2018	31/03/2021	31/03/2021	31/03/2021		0	0	0	100
707									0.000	0.000	0.000					14/12/2016	15/12/2016						0	0	0	100
708									0.000	0.000	0.000					15/12/2014	15/12/2014	02/09/2020	31/03/2021	31/03/2021	31/03/2021		0	0	100	0
709									0.000	0.000	0.000					05/07/2013	16/07/2013						0	0	100	0
710									0.000	0.000	0.000												0	0	0	100
711									0.000	0.000	0.000					08/07/2013	19/07/2013	03/01/2014	31/03/2015		27/03/2015	07/09/2015	0	0	0	100
712									0.000	0.000	0.000					03/08/2016	04/08/2016	03/09/2018	19/11/2021		30/09/2021	06/10/2022	0	0	39	61
713									0.000	0.000	0.000					10/07/2014	17/07/2014						0	0	100	0
714									0.000	0.000	0.000					07/08/2020	07/08/2020						0	0	0	100
715									0.000	0.000	0.000					05/02/2016	05/02/2016	16/05/2017	31/03/2021	31/03/2021	30/04/2021		0	0	0	100
716									0.000	0.000	0.000					06/01/2015	08/01/2015				26/05/2017		0	0	0	100
717									0.000	0.000	0.000					06/01/2015	08/01/2015						0	0	0	100
718									0.000	0.000	0.000					06/01/2015	08/01/2015						0	0	0	100
719									0.000	0.000	0.000					27/11/2014	01/12/2014	02/11/2015	30/03/2016		30/09/2016		0	0	100	0
720									0.000	0.000	0.000					22/08/2018	22/08/2018	09/09/2019	23/03/2021	23/03/2021	23/03/2021		0	0	100	0
721									0.000	0.000	0.000					09/06/2016	10/06/2016						0	0	100	0
722									0.000	0.000	0.000					14/06/2016	16/06/2016						0	0	0	100
723									-0.069	-0.052	-0.052	100	0	0	0	27/06/2019	27/06/2019						0	0	50	50
724									0.000	0.000	0.000					29/01/2016	02/02/2016						0	0	10	90
725									0.000	0.000	0.000					15/04/2021	15/04/2021		10/01/2020				0	0	100	0
726									0.000	0.000	0.000					17/04/2019	17/04/2019	03/06/2019	04/03/2021	04/03/2021	31/03/2021		0	0	0	100
727									0.000	0.000	0.000					20/02/2017	21/02/2017						0	0	0	100
728									0.000	0.000	0.000					17/07/2017	01/08/2017	27/11/2017	13/04/2018		13/04/2018	23/04/2018	0	50	0	50
729									0.000	0.000	0.000					05/09/2018	05/09/2018	24/09/2018	31/03/2021	31/03/2021	31/03/2021		0	0	0	100
730									0.129	0.000	0.000	100	0	0	0	08/03/2018	08/03/2018	02/11/2020	01/02/2022	01/02/2022	01/02/2022		0	0	50	50
731									0.139	0.000	0.000	100	0	0	0	06/03/2020	06/03/2020	01/05/2020	28/02/2022	28/02/2022	28/02/2022		0	0	50	50
732									0.000	0.000	0.000					08/03/2018	08/03/2018	03/08/2020	01/04/2024	01/04/2024	01/04/2024		0	0	50	50
733									0.000	0.000	0.000					16/06/2017	16/06/2017	10/10/2017	01/06/2023	01/06/2023	01/06/2023		0	0	100	0
734									0.000	0.000	0.000					16/06/2017	16/06/2017	01/04/2020	01/11/2022	01/11/2022	01/11/2022		0	0	100	0
735									0.000	0.000	0.000					16/06/2017	16/06/2017	01/04/2020	29/08/2023	29/08/2023	29/08/2023		0	0	100	0
736									0.000	0.000	0.000					10/12/2020	10/12/2020						0	0	100	0
737									0.000	0.000	0.000					13/04/2018	17/04/2018						0	0	0	100
738									0.000	0.000	0.000					01/04/2022	01/04/2022						49	1	49	1
739									0.000	0.000	0.000												0	50	50	0
740									0.000	0.000	0.000					29/11/2019	29/11/2019	06/01/2021	26/05/2022	26/05/2022	26/05/2022		0	33	0	67
741									0.000	0.000	0.000												50	0	50	0
742									0.000	0.000	0.000					30/01/2018	30/01/2018	06/04/2020	01/02/2022	01/02/2022	01/02/2022		0	0	5	95
743									0.000	0.000	0.000												0	0	100	0
744									0.000	0.000	0.000					28/05/2024	28/05/2024						0	20	0	80
745									0.000	0.000	0.000												0	0	0	100
746									-0.529	-0.397	-0.397	0	0	100	0	03/11/2022	03/11/2022						0	50	0	50
747									0.000	0.000	0.000												25	25	25	25
748									0.069	0.000	0.000	31	39	12	18	28/07/2022	29/07/2022						18	10	31	41
749									0.000	0.000	0.000					17/10/2018	19/10/2018						0	0	100	0
750									0.000	0.000	0.000					10/02/2022	10/02/2022	10/02/2022	10/02/2022	10/02/2022	10/02/2022		0	0	100	0
751									0.000	0.000	0.000												0	50	0	50
752									0.000	0.000	0.000												0	50	0	50
753									0.000	0.000	0.000					05/09/2019	05/09/2019	12/10/2020	02/05/2022	02/05/2022	02/05/2022		0	40	0	60
754									0.000	0.000	0.000												0	0	0	100
755									0.000	0.000	0.000					21/06/2019	21/06/2019	03/02/2020	31/08/2021	31/08/2021	31/08/2021		0	0	100	0
756									0.000	0.000	0.000					13/08/2019	13/08/2019	06/11/2019	01/08/2022	01/08/2022	01/08/2022		0	0	100	0
757									0.000	0.000	0.000												10	39	21	30

Sort Ref	Block H - Current Actual Projected Capital Expenditure Profile (£m money of the day)											Block I - Current Actual or Projected Purpose Allocation (%)				Block J - Current Actual or Projected IRE (%)		Block K - Nominated outputs (PC Period)	Block L - Living with Water Programme		Block M - PC21 To Be Determined Projects					Block N - Drainage Area Plan	Block O - Integrated Environmental Modelling	Block P - Summary Programme Line Identifier
	Current actual project capital expenditure for year to date	Current Actual or Projected CAPEX 2013-14 £m	Current Actual or Projected CAPEX 2014-15 £m	Current Actual or Projected CAPEX 2015-16 £m	Current Actual or Projected CAPEX 2016-17 £m	Current Actual or Projected CAPEX 2017-18 £m	Current Actual or Projected CAPEX 2018-19 £m	Current Actual or Projected CAPEX 2019-20 £m	Current Actual or Projected CAPEX 2020-21 £m	Current Actual or Projected CAPEX 2021-22 £m	Current Actual or Projected CAPEX 2022-23 £m	Current Actual or Projected Purpose Allocation Quality	Current Actual or Projected Purpose Allocation Base	Current Actual or Projected Purpose Allocation ESL	Current Actual or Projected Purpose Allocation Growth	Current Actual or Projected IRE Allocation Water	Current Actual or Projected IRE Allocation Sewerage	Nominated Output	LWWP (Y/N)	LWWP Catchment Delivery Plan	PC21 TBD Project (Y/N)	Baseline Submission Tranche	Baseline Submission Date	Current Actual or Projected Submission Date	Determined Date	DAP Reference	IEM Reference	Summary Programme Line Identifier
1	53	54	55	56	57	58	59	60	61	62	63	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87
CALC	341.501	30.155	43.074	71.854	100.838	116.652	129.673	134.779	155.689	224.674	294.886																	
SORT	CAP_Capex_YTD_£m	CAP_Capex_2013-14_£m	CAP_Capex_2014-15_£m	CAP_Capex_2015-16_£m	CAP_Capex_2016-17_£m	CAP_Capex_2017-18_£m	CAP_Capex_2018-19_£m	CAP_Capex_2019-20_£m	CAP_Capex_2020-21_£m	CAP_Capex_2021-22_£m	CAP_Capex_2022-23_£m	CAPPA_Q%	CAPPA_B%	CAPPA_E%	CAPPA_G%	CAP_IRE_W%	CAP_IRE_S%	NOM_Output	LWWP_Marker	LWWP_CDP_ID	PC21_TBD_Marker	PC21_TBD_Sub_Tranche	PC21_TBD_BL_Sub_Date	PC21_TBD_CAP_Sub_Date	PC21_TBD_Det_Date	DAP_ID	IEM_ID	Summary_Prog_ID
503	-0.018	0.000	0.000	0.005	1.950	0.615	-0.003	-0.010	-0.006	0.000	0.000	0	100	0	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
504	0.000	0.000	0.000	0.000	0.000	0.000	0.015	0.166	0.000	-0.001	0.000	0	40	60	0	40	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
505	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.098	0.000	0.000	0	0	0	100	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
506	0.000	0.000	0.000	0.000	0.000	0.000	0.241	0.000	-0.007	0.000	0.000	0	0	0	100	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
507	-0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.013	0.001	0.000	0.000	0	0	0	100	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
508	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.005	0.090	0.000	-0.046	0	94	3	3	94	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
509	0.017	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.020	0.080	0.000	0	52	0	48	52	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
510	0.096	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.006	1.141	0.632	0	0	100	0	0	0	10: PC21 Nominated			N					N/A	N/A	xxx98
511	1.224	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.080	1.018	0	100	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
512	0.000	0.298	1.322	0.436	0.073	-0.094	-0.001	-0.012	-0.007	-0.002	0.000	14	84	0	2	84	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
513	0.000	0.000	0.000	0.000	0.000	0.507	0.697	0.018	-0.005	0.000	0.000	0	100	0	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
514	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.210	1.362	0.985	82	18	0	0	18	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
515	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.070	0.115	0	0	0	100	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
516	-0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.060	0.000	0	0	0	100	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
517	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.050	0.000	60	10	0	30	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
518	0.141	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.088	0	0	100	0	0	0	03: Additional Output Proposed			N					N/A	N/A	xxx98
519	0.082	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	100	0	0	100	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
520	-0.001	0.946	0.213	0.017	0.000	-0.030	-0.090	0.045	0.000	0.013	-0.119	23	47	9	21	43	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
521	0.000	0.081	0.005	0.000	0.000	-0.027	-0.025	0.000	0.000	0.000	-0.006	42	51	5	2	51	0	11: PC10			N					N/A	N/A	xxx98
522	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	100	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
523	0.000	0.520	0.098	0.016	0.000	0.050	-0.051	0.003	-0.055	0.000	0.000	5	71	14	10	71	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
524	-0.001	0.886	0.107	-0.234	0.018	-0.007	0.055	0.001	0.000	0.000	0.002	32	49	0	19	49	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
525	0.000	0.006	0.012	0.004	0.016	0.927	0.693	-0.002	0.015	0.000	0.000	0	95	5	0	95	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
526	0.000	0.211	0.068	0.002	0.000	-0.001	-0.003	0.001	0.000	0.002	0.000	0	100	0	0	100	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
527	-0.001	0.100	0.288	0.001	0.000	-0.038	0.024	0.004	0.000	0.034	0.000	13	77	0	10	77	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
528	-0.008	0.000	0.000	0.000	0.624	1.405	0.948	0.292	0.180	0.000	0.030	26	69	5	0	69	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
529	-0.027	0.000	0.000	0.000	0.000	0.000	0.127	1.663	0.706	0.158	0.000	36	64	0	0	64	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
530	0.000	0.000	0.000	0.000	0.003	0.049	0.214	0.396	-0.014	0.000	0.000	0	100	0	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
531	0.000	0.000	0.000	0.000	0.000	0.000	0.257	0.009	0.000	-0.001	0.000	0	0	0	100	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
532	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.094	-0.004	0.001	0.000	0	100	0	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
533	0.286	0.000	0.000	0.000	0.000	0.000	0.000	0.165	2.768	1.193	0.308	34	66	0	0	66	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
534	-0.025	0.000	0.000	0.000	0.000	0.000	0.000	0.040	0.277	0.000	0.000	100	0	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
535	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.020	0.198	0.000	0.000	100	0	0	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
536	-0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.021	0.058	0.000	20	80	0	0	80	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
537	2.860	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.135	0.462	0	100	0	0	100	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
538	0.037	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.006	0	12	88	0	0	0	10: PC21 Nominated			N					N/A	N/A	xxx98
539	0.040	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.005	0	3	97	0	0	0	10: PC21 Nominated			N					N/A	N/A	xxx98
540	0.152	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.132	0	0	0	100	0	0	03: Additional Output Proposed			N					N/A	N/A	xxx98
541	-0.102	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.110	5	95	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
542	0.585	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	30	30	0	40	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
543	1.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	30	70	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
544	0.100	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	50	0	50	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
545	0.300	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	70	30	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
546	0.000	0.000	0.002	0.182	0.305	0.105	0.068	0.073	0.027	0.000	0.000	10	60	10	20	60	0	02: PC15 Nominated			N					N/A	N/A	xxx98
547	-0.002	0.012	0.164	0.328	1.153	0.984	0.997	-0.011	-0.005	0.000	0.000	0	100	0	0	0	100	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
548	0.020	0.016	0.002	0.009	0.010	0.003	0.001	0.000	0.005	0.001	0.018	81	19	0	0	0	10	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
549	0.000	0.293	0.033	0.028	0.061	-0.014	0.015	0.000	-0.003	0.000	0.000	0	100	0	0	0	100	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
550	0.005	-0.003	0.003	0.009	0.036	0.064	-0.003	-0.002	0.000	0.019	0.062	60	19	0	21	0	4	10: PC21 Nominated			N					DA0364	N/A	xxx98
551	0.000	0.007	0.004	0.031	0.065	1.114	0.359	0.167	-0.015	0.000	0.000	25	42	0	33	0	0	02: PC15 Nominated			N					N/A	N/A	xxx98
552	0.000	0.043	0.034	0.018	0.000	-0.039	0.000	0.000	0.000	0.060	0.047	44	26	0	30	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
553	0.000	0.001	0.013	0.000	0.000	0.031	0.000	0.077	0.499	0.004	0.000	40	48	0	12	0	0	06: PC15 Substitution In			N					DA0364	N/A	xxx98
554	0.057	0.004	0.011	0.004	0.019	0.017	0.000	0.035	0.004	0.000	0.020	69	23	0	8	0	4	10: PC21 Nominated			N					DA0364	N/A	xxx98
555	0.606	0.000	0.000	0.028	0.010	0.000	0.003	0.003	0.007	0.017	0.481	78	14	0	8	0	0	10: PC21 Nominated			N					DA0364	N/A	xxx98
556	-0.006	0.000	0.000	0.000	0.000	0.138	-0.016	-0.002	0.000	0.000	0.000	0	0	0	100	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
557	-0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.192	0.000	0.000	0.000	0	0	0	100	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
558	0.000	0.000	0.000	0.000	0.000	0.020	-0.002	0.000	-0.001	0.000	0.000	0	0	0	100	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
559	-0.001	0.000	0.000	0.000	0.000	0.000	0.028	0.000	0.000	0.000	0.000	0	0	0	100	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
560	0.000	0.000	0.000	0.000	0.000	0.009	0.011	0.062	0.003	0.005	0.000	0	100	0	0	0	0	05: Additional Output Rejected			N					N/A	N/A	xxx98
561	-0.001	0.000	0.000	0.000	0.000	0.001	0.000	0.020	0.000	-0.001	0.000	0	0	0	100	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
562	-0.006	0.000	0.000	0.000	0.000	0.002	0.197	0.000	0.018	0.000	0.000	0	0	0	100	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
563	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.012	0.175	0.000	0	0	0	100	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
564	0.000	0.000	0.000	0.000	0.000	0.000	0.008	0.014	0.064	0.037	0.000	0	5	95	0	0	5	01: PC15 Non-Nominated			N					DA0364	N/A	xxx98
565	-0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.016	0.001	0.000	0.000	0	0	0	100	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
566	-0.013	0.000	0.000	0.000	0.000	0.000	0.034	0.000	0.107	1.176	-0.029	10	90	0	0	0	90	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
567	0.025	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.628	0	25	0	75	0	25	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
568	-0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.060	0.002	0.000	0.000	0	0	0	100	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
569	-0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.042	0.000	0.000	0	0	0	100	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
570	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	89	11	0	0	0	11	10: PC21 Nominated			Y	Batch 3	30/09/2022	30/09/2022		DA0327	IEM02	xxx98
571	0.035	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	100	0	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
572	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	64	25	0	11	0	2	10: PC21 Nominated			N					DA0364	N/A	xxx98
573	0.020	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	0	100	0	0	0	03: Additional Output Proposed			N					N/A	N/A	xxx98
574	-0.001	-0.001	0.068	0.093	0.000	0.000	-0.001	0.000	0.000	0.000	0.000	0	0	0	100	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
575	-0.006	0.000	0.029	-0.003	0.202	1.077	0.377	0.053	0.003	0.000	0.000	66	27	0	7	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
576	0.000	0.000	0.008	0.002	0.000	0.000	-0.007	-0.001	0.000	0.000	0.000	0	100	0	0	0	85	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
577	-0.001	0.000	0.000	0.072	0.000	0.000	-0.002	0.000	0.000	0.000	0.000	0	0	0	100	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
578	0.000	0.000	0.000	0.026	0.001	-0.003	0.000	0.000	-0.001	0.000	0.000	0	0	0	100	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
579	-0.001	0.000	0.000	0.058	0.055	0.073	0.010	1.044	1.233	0.000	0.000	0	4	96	0	0	4	01: PC15 Non-Nominated			N					DA0386	N/A	xxx98
580	-0.001	0.000	0.000	0.000	0.000	0.029	-0.001	0.000	0.000	0.000	0.000	0	0	0	100	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
581	0.000	0.000	0.000	0.000	0.015	-0.001	0.000	0.000	-0.002	0.000	0.000	0	0	0	100	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
582	0.000	0.000	0.000	0.000	0.049	6.970	0.380	0.042	0.007	-0.059	0.000	15	85	0	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
583	-0.004	0.000	0.000	0.000	0.000	0.000	0.040	-0.001	0.000	0.000	0.000	0	0	0	100	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
584	0.006	0.000	0.000	0.000	0.000	0.001	0.000	0.001	0.000	0.000	0.000	0	0	0	100	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
585	-0.001	0.000	0.000	0.000	0.000	0.000	0.026	0.000	0.000	0.000	0.000	0	0	0	100	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
586	-0.001	0.000	0.000	0.000	0.000	0.000	0.001	0.035	0.000	0.000	0.000	0	0	0	100	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
587	-0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.013	0.001	0.000	0.000	0	0	0	100	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
588	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.027	0.000	0.000	0	0	0	100	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
589	0.000	0.000	0.000	0.000	0.000	0.000	0.050	0.002	-0.001	0.000	0.000	0	0	0	100	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
590	0.479	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.102	0.115	0.241	0	100	0	0	0	0	15: PC21 Non-Nominated			N					DA0386	N/A	xxx98
591	1.807	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.036	0.163	1.217	49	6	0	45	0	0	10: PC21 Nominated			Y	Batch 2	31/03/2022	31/03/2022		N/A	N/A	xxx98
592	2.996	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.060	0.438	1.675	20	11	0	69	0	0	10: PC21 Nominated			Y	Batch 2	31/03/2022	31/03/2022		N/A	N/A	xxx98
593	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.004	0.046	0.000	46	27	0	27	0	0	10: PC21 Nominated			Y	Batch 4	31/03/2023	31/03/2023		N/A	N/A	xxx98
594	0.263	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.059	0.180	0	20	0	80	0	0	10: PC21 Nominated			Y	Batch 3	30/09/2022	30/09/2022		DA0442	IEM16	xxx98
595	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	80	20	0	0	0	20	10: PC21 Nominated			N					DA0386	N/A	xxx98
596	2.625	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.014	0.171	68	28	0	4	0	0	10: PC21 Nominated			N					N/A	IEM16	xxx98
597	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	8	0	92	0	0	10: PC21 Nominated			Y	Batch 3	30/09/2022	30/09/2022		DA0327	IEM02	xxx98
598	0.296	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	58	42	0	0	0	42	10: PC21 Nominated			N					DA0386	N/A	xxx98
599	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010	0	0	100	0	0	0	10: PC21 Nominated			N					DA0386	N/A	xxx98
600	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	62	38	0	0	0	34	13: PC21 LWWP			N					DA0005	N/A	xxx98
601	0.571	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.073	100	0	0	0	0	0	13: PC21 LWWP			N					DA0005	N/A	xxx98
602	0.161	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	100	0	0	0	0	0	10: PC21 Nominated			N					DA0386	N/A	xxx98
603	0.000	0.121	0.278	1.287	3.625	0.952	1.225	0.090	-0.037	0.000	0.000	85	9	0	6	0	0	02: PC15 Nominated			N					N/A	N/A	xxx98
604	0.005	-0.004	0.023	0.062	0.052	1.017	1.214	0.677	0.047	0.000	0.000	74	1	0	25	0	0	02: PC15 Nominated			N					N/A	N/A	xxx98
605	0.000	0.040	0.349	0.041	0.375	0.606	-0.001	0.002	0.014	0.002	0.000	100	0	0	0	0	0	02: PC15 Nominated			N					DA0590	N/A	xxx98
606	-0.006	0.059	0.006	0.028	0.010	0.061	0.059	-0.025	0.000	0.000	0.000	0	0	100	0	0	0	01: PC15 Non-Nominated			N					DA0665	N/A	xxx98
607	-0.037	0.013	0.000	0.000	0.008	0.027	0.009	0.642	0.948	0.000	0.000	24	26	0	50	0	0	04: Additional Output Agreed			N					N/A	N/A	xxx98
608	0.000	0.025	0.072	0.033	0.071	0.016	-0.003	0.000	-0.001	0.000	0.000	40	36	12	12	0	0	10: PC21 Nominated			N					DA0590	N/A	xxx98
609	0.000	0.000	0.086	-0.005	0.000	0.000	0.000	0.000	-0.003	0.000	0.000	0	0	0	100	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
610	-0.006	0.020	0.010	0.008	0.016	0.011	0.000	1.069	0.905	0.019	0.000	44	26	0	30	0	0	02: PC15 Nominated			N					N/A	N/A	xxx98
611	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	80	20	0	0	0	20	15: PC21 Non-Nominated			N					DA0570	N/A	xxx98
612	-0.001	0.000	0.000	0.000	0.022	0.001	-0.001	0.000	0.000	0.000	0.000	0	0	0	100	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
613	0.000	0.000	0.000	0.189	4.278	0.119	-0.079	0.000	0.000	-0.005	0.000	0	100	0	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
614	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.054	0.008	0	0	0	100	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
615	-0.003	0.000	0.000	0.000	0.000	0.002	0.045	0.006	0.003	0.000	0.000	0	40	60	0	0	40	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
616	-0.002	0.000	0.000	0.000	0.000	0.054	-0.003	-0.001	0.000	0.000	0.000	0	0	0	100	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
617	0.000	0.000	0.000	0.000	0.009	0.017	0.051	0.680	0.001	0.000	0.000	0	0	100	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
618	0.000	0.000	0.000	0.000	0.000	0.074	0.000	0.000	-0.001	0.000	0.000	0	0	0	100	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
619	0.000	0.000	0.000	0.000	0.000	0.040	3.137	0.286	-0.002	0.000	0.000	0	100	0	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
620	0.392	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	0	0	100	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
621	-0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.023	0.000	0.000	0.000	0	0	0	100	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
622	-0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.033	-0.008	0.000	0.000	0	0	0	100	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
623	-0.043	0.000	0.000	0.000	0.000	0.000	0.000	2.459	0.315	0.000	0.000	0	100	0	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
624	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.154	2.086	0.000	0.000	0	100	0	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
625	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.075	0.000	0.000	0.000	0	100	0	0	0	100	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
626	1.029	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.007	0.108	100	0	0	0	0	0	10: PC21 Nominated			N					DA0590	N/A	xxx98
627	4.333	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.005	0.089	0.286	0	28	47	25	0	0	10: PC21 Nominated			Y	Batch 3	30/09/2022	30/09/2022		DA0571	IEM16	xxx98
628	0.090	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	89	11	0	0	0	8	10: PC21 Nominated			Y	Batch 4	31/03/2023	31/03/2023		DA0515	N/A	xxx98
629	0.145	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	85	15	0	0	85	10: PC21 Nominated			Y	Batch 2	31/03/2022	31/03/2022		N/A	N/A	xxx98
630	0.011	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	0	100	0	0	0	10: PC21 Nominated			N					DA0590	N/A	xxx98
631	0.016	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	0	30	70	0	0	10: PC21 Nominated			N					DA0665	N/A	xxx98
632	-0.002	1.579	0.853	-0.095	0.000	0.050	0.050	-0.073	0.009	0.000	0.000	41	38	0	21	0	17	09: PC13 Non Nominated			N					N/A	N/A	xxx98
633	0.000	0.000	0.030	0.012	0.075	-0.002	-0.001	0.000	-0.001	0.000	0.000	0	25	0	75	0	25	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
634	0.000	0.011	0.015	0.000	0.010	-0.006	0.004	0.000	-0.001	0.000	0.000	44	26	0	30	0	0	03: Additional Output Proposed			N					N/A	N/A	xxx98
635	-0.015	0.000	0.000	0.000	0.000	1.589	-0.328	0.445	0.650	0.219	0.000	56	19	0	25	0	0	02: PC15 Nominated			N					N/A	N/A	xxx98
636	0.060	0.009	0.000	0.000	0.012	0.018	-0.020	0.000	0.000	0.000	0.000	44	26	0	30	0	0	10: PC21 Nominated			N					N/A	N/A	xxx98
637	-0.001	0.006	-0.001	0.061	0.000	-0.006	-0.002	0.000	0.004	0.000	0.000	21	61	0	18	0	0	03: Additional Output Proposed			N					DA0054	N/A	xxx98
638	0.028	0.035	0.010	0.005	0.033	0.022	-0.016	0.000	0.004	0.004	0.037	10	51	0	39	0	0	10: PC21 Nominated			N					N/A	IEM05	xxx98
639	-0.002	0.015	0.000	0.000	0.008	0.003	0.005	0.000	0.009	0.000	0.000	44	26	0	30	0	0	03: Additional Output Proposed			N					N/A	N/A	xxx98
640	0.000	0.005	0.033	0.268	0.238	0.000	-0.002	-0.002	-0.001	0.000	0.000	0	0	0	100	0	0	03: Additional Output Proposed			N					DA0745	N/A	xxx98
641	0.035	0.004	0.003	0.002	-0.001	0.013	0.003	0.005	0.000	0.090	0.657	54	0	0	46	0	0	10: PC21 Nominated			N					N/A	N/A	xxx98
642	0.000	0.000	0.000	0.013	0.000	0.000	0.000	0.000	-0.001	0.000	0.000	0	0	0	100	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
643	0.000	0.000	0.000	0.005	0.020	0.166	0.061	0.017	-0.003	0.000	0.000	0	100	0	0	0	100	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
644	-0.001	0.000	0.000	0.000	0.018	0.000	0.000	0.000	0.000	0.000	0.000	0	0	0	100	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
645	0.000	0.000	0.000	0.000	0.000	0.020	-0.002	0.000	-0.001	0.000	0.000	0	0	0	100	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
646	-0.001	0.000	0.000	0.018	0.287	0.208	0.008	0.000	-0.002	0.000	0.000	63	33	0	4	0	0	06: PC15 Substitution In			N					DA0755	N/A	xxx98
647	-0.003	0.000	0.000	0.016	0.033	0.001	0.059	1.396	0.106	0.000	0.000	60	40	0	0	0	24	06: PC15 Substitution In			N					DA0755	N/A	xxx98
648	0.000	0.000	0.000	0.000	0.000	0.067	0.067	0.000	0.000	-0.001	0.000	0	0	0	100	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
649	0.000	0.000	0.000	0.002	0.000	0.025	0.025	-0.002	0.001	0.000	0.000	0	0	0	100	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
650	0.000	0.000	0.000	0.002	0.026	0.242	0.242	0.097	0.008	0.000	0.000	0	100	0	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
651	0.000	0.000	0.000	0.000	0.000	0.001	0.001	0.000	0.130	0.088	0.031	0	0	0	100	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
652	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.000	0.000	0	100	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
653	0.000	0.000	0.000	0.000	0.000	3.818	5.131	0.099	-0.009	0.075	0.000	60	0	0	40	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
654	-0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.038	0.002	0.000	0.000	0	0	0	100	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
655	-0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.128	0	0	0	100	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
656	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.029	0.064	0.000	0.000	0	0	0	100	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
657	-0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.019	0.001	0.000	0.000	0	0	0	100	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
658	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.872	0.075	0.000	0.000	0	100	0	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
659	-0.048	0.000	0.000	0.000	0.000	0.000	0.000	0.390	2.814	-0.004	0.000	0	100	0	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
660	0.126	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.004	0.075	0.134	0	10	0	90	0	0	10: PC21 Nominated			N					N/A	N/A	xxx98
661	0.014	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.025	0.060	0	56	5	39	0	0	10: PC21 Nominated			N					DA0743	IEM05	xxx98
662	0.040	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.041	0.030	0	20	0	80	0	0	10: PC21 Nominated			Y	Batch 4	31/03/2023	31/03/2023		DA0743	IEM05	xxx98
663	0.056	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010	50	35	0	15	0	0	10: PC21 Nominated			Y	Batch 4	31/03/2023	31/03/2023		N/A	IEM05	xxx98
664	13.311	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.110	0.269	3.665	0	13	0	87	0	0	10: PC21 Nominated			Y	Batch 2	31/03/2022	31/03/2022		DA0744	IEM05	xxx98
665	0.081	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.024	0	30	0	70	0	0	10: PC21 Nominated			N					DA0054	N/A	xxx98
666	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	49	12	0	39	0	12	10: PC21 Nominated			Y	Batch 4	31/03/2023	31/03/2023		DA0755	IEM05	xxx98
667	0.054	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	84	16	0	0	0	16	10: PC21 Nominated			Y	Batch 3	30/09/2022	30/09/2022		DA0744	IEM05	xxx98
668	-0.006	0.020	0.035	0.029	0.076	2.074	1.279	0.767	0.001	0.000	0.000	0	88	0	12	0	0	04: Additional Output Agreed			N					N/A	N/A	xxx98
669	-0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.053	0.002	0.000	0.000	0	0	0	100	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
670	0.500	-0.005	0.001	0.007	0.003	0.074	0.002	0.000	0.012	0.023	0.097	72	12	0	16	0	2	10: PC21 Nominated			N					N/A	N/A	xxx98
671	0.109	-0.001	0.003	0.011	0.000	-0.005	0.000	0.000	0.000	0.017	0.197	86	2	12	0	0	0	10: PC21 Nominated			Y	Batch 2	31/03/2022	31/03/2022		DA0148	IEM17	xxx98
672	4.367	0.000	0.000	0.000	0.000	0.053	0.096	0.013	0.009	0.041	0.477	71	18	2	9	0	5	10: PC21 Nominated			N					DA0148	N/A	xxx98
673	-0.009	0.007	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.759	0	0	0	100	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
674	0.000	0.000	0.000	0.012	0.000	0.000	0.000	0.000	-0.001	0.000	0.000	0	0	0	100	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
675	-0.005	0.010	1.057	0.200	0.100	0.077	0.122	0.073	-0.044	0.000	-0.004	15	85	0	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
676	0.000	0.002	0.033	0.009	0.005	-0.007	0.000	0.000	0.004	0.000	0.000	70	30	0	0	0	30	01: PC15 Non-Nominated			N					DA0148	N/A	xxx98
677	-0.001	0.000	0.000	0.000	0.000	0.000	0.063	0.000	0.000	0.000	0.000	0	0	0	100	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
678	-0.002	0.000	0.000	0.000	0.000	0.001	0.000	0.005	0.081	0.000	0.000	0	0	0	100	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
679	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.000	0.090	0.107	0.000	0	0	0	100	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
680	-0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.036	-0.001	0.000	0.000	0	0	0	100	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
681	-0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.067	0.000	0	0	0	100	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
682	0.030	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.125	0	0	0	100	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
683	0.025	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.050	0.080	0.087	0	70	0	30	0	0	10: PC21 Nominated			Y	Batch 2	31/03/2022	31/03/2022		DA0159	N/A	xxx98
684	0.011	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.033	0.011	32	32	0	36	0	0	10: PC21 Nominated			N					DA0054	N/A	xxx98
685	1.062	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.340	0	100	0	0	0	100	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
686	0.395	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	100	0	0	0	100	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
687	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	100	0	0	0	0	0	15: PC21 Non-Nominated			N					DA0148	N/A	xxx98
688	0.022	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.020	0.043	0	20	80	0	0	20	15: PC21 Non-Nominated			Y	Batch 1	30/09/2021	30/09/2021		DA0022	IEM03	xxx98
689	0.334	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.056	0.088	67	10	0	23	0	0	10: PC21 Nominated			Y	Batch 2	31/03/2022	31/03/2022		DA0134	IEM01	xxx98
690	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.091	0.061	100	0	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
691	0.179	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.085	86	2	0	12	0	0	10: PC21 Nominated			N					N/A	N/A	xxx98
692	0.108	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.026	0.087	100	0	0	0	0	0	10: PC21 Nominated			N					DA0137	N/A	xxx98
693	0.066	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.088	0	0	0	100	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
694	0.192	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	82	18	0	0	0	18	10: PC21 Nominated			Y	Batch 4	31/03/2023	31/03/2023		DA0094	IEM06	xxx98
695	0.039	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	99	1	0	0	0	1	10: PC21 Nominated			Y	Batch 4	31/03/2023	31/03/2023		DA0088	N/A	xxx98
696	0.030	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.020	0.000	84	16	0	0	0	13	10: PC21 Nominated			Y	Batch 3	30/09/2022	30/09/2022		DA0040	IEM06	xxx98
697	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	76	0	0	24	0	0	15: PC21 Non-Nominated			N					DA0069	N/A	xxx98
698	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0	0	100	0	0	0	10: PC21 Nominated			N					DA0040	N/A	xxx98
699	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	99	1	0	0	0	0	10: PC21 Nominated			N					DA0054	IEM07	xxx98
700	0.022	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003	62	38	0	0	0	12	10: PC21 Nominated			N					DA0092	N/A	xxx98
701	-0.013	-0.001	0.070	-0.001	0.000	0.037	0.000	0.000	0.000	0.000	0.000	0	65	0	35	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
702	-0.017	0.039	0.000	-0.023	1.071	-0.264	-0.027	0.223	0.099	0.032	0.006	0	0	100	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
703	0.000	1.028	0.175	0.006	0.000	0.002	-0.003	-0.001	-0.001	0.000	0.000	11	79	10	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
704	-0.004	0.000	0.000	0.000	0.000	0.000	0.120	1.135	1.859	0.556	0.000	0	100	0	0	0	100	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
705	-0.003	0.000	0.082	0.021	0.020	0.167	0.129	0.026	-0.006	0.000	0.000	0	40	60	0	0	40	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
706	-0.001	0.004	0.014	0.001	0.208	0.013	0.424	0.332	0.212	0.000	0.000	0	0	100	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
707	-0.001	0.000	0.000	0.000	0.050	0.319	0.091	0.002	-0.009	0.000	0.001	0	100	0	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
708	-0.010	0.000	0.000	0.265	1.529	2.076	0.723	0.812	1.064	0.009	0.003	0	100	0	0	0	100	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
709	-0.008	0.174	0.615	0.653	0.118	0.070	0.020	0.009	0.002	0.000	0.000	0	0	0	100	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
710	0.000	0.016	0.006	0.015	0.002	0.000	0.000	0.000	-0.002	0.000	0.000	0	0	0	100	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
711	0.000	0.673	3.752	0.974	0.435	-0.079	-0.008	0.000	-0.001	0.000	0.000	10	40	0	50	0	0	08: PC13 Nominated			N					N/A	N/A	xxx98
712	-0.015	0.003	0.034	0.015	0.194	0.115	0.515	0.312	0.496	0.006	-0.003	0	0	100	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
713	0.067	0.000	0.000	0.432	0.661	0.961	0.891	0.570	0.175	0.113	0.034	0	0	0	100	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
714	-0.004	0.000	0.020	0.010	0.020	0.003	0.000	0.000	0.000	0.000	0.000	0	100	0	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
715	-0.034	0.000	0.030	0.126	2.025	1.440	3.018	2.957	2.240	0.000	0.000	10	40	0	50	0	0	02: PC15 Nominated			N					N/A	N/A	xxx98
716	0.000	0.000	0.040	4.991	2.673	0.441	0.121	-0.014	0.054	-0.001	0.000	0	100	0	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
717	0.000	0.000	0.040	4.864	0.091	-0.006	-0.006	0.000	-0.032	0.000	0.000	0	100	0	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
718	-0.011	0.000	0.249	4.819	0.219	-0.088	-0.004	-0.001	0.000	0.000	0.000	0	100	0	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
719	0.000	0.000	0.069	0.772	0.114	0.036	-0.036	-0.003	0.000	0.001	0.000	0	30	70	0	0	30	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
720	0.000	0.000	0.000	0.000	0.000	0.000	0.401	1.257	1.351	0.070	0.000	0	100	0	0	0	100	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
721	0.000	0.000	0.000	0.000	0.180	0.106	0.113	0.069	0.069	0.002	0.000	0	0	100	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
722	-0.041	0.000	0.000	0.044	0.425	1.153	1.385	1.012	0.353	0.000	0.000	0	55	45	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
723	0.000	0.000	0.000	0.055	0.091	0.021	0.006	-0.010	0.000	0.000	0.000	100	0	0	0	0	0	13: PC21 LWWP			Y	Batch 4	31/03/2023	31/03/2023		N/A	N/A	xxx98
724	-0.006	0.000	0.000	0.070	3.732	0.691	0.064	0.015	0.000	0.000	0.000	0	100	0	0	0	10	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
725	-0.001	0.000	0.000	0.000	0.179	0.118	0.150	0.009	-0.001	0.000	0.000	0	100	0	0	0	100	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
726	0.000	0.000	0.000	0.000	0.140	0.420	0.310	0.508	0.334	0.270	0.030	80	0	20	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
727	0.000	0.000	0.000	0.000	0.030	2.847	1.309	0.005	-0.076	0.000	0.000	0	100	0	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
728	0.000	0.000	0.000	0.000	0.033	0.158	-0.027	0.017	-0.002	0.000	0.000	0	100	0	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
729	-0.013	0.000	0.000	0.000	0.000	0.040	0.562	1.119	0.420	-0.010	0.001	100	0	0	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
730	-0.001	0.000	0.000	0.000	0.000	0.000	0.118	0.437	0.356	0.136	0.000	100	0	0	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
731	-0.008	0.000	0.000	0.000	0.000	0.130	0.305	0.302	0.227	0.148	0.000	100	0	0	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
732	0.416	0.000	0.000	0.000	0.000	0.008	0.396	0.833	0.611	0.822	0.750	100	0	0	0	0	0	13: PC21 LWWP			Y	Batch 4	31/03/2023	31/03/2023		DA0002	N/A	xxx98
733	0.039	0.000	0.000	0.000	0.000	0.180	0.226	0.091	0.213	0.095	0.066	0	100	0	0	0	100	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
734	0.000	0.000	0.000	0.000	0.000	0.612	0.332	0.363	0.211	0.026	-0.011	0	100	0	0	0	100	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
735	0.025	0.000	0.000	0.000	0.000	0.697	0.599	0.988	0.616	0.194	-0.005	0	100	0	0	0	100	13: PC21 LWWP			Y	Batch 4	31/03/2023	31/03/2023		DA0002	N/A	xxx98
736	0.000	0.000	0.000	0.000	0.000	0.078	0.092	0.014	-0.007	0.001	0.000	0	100	0	0	0	100	13: PC21 LWWP			Y	Batch 4	31/03/2023	31/03/2023		N/A	N/A	xxx98
737	0.000	0.000	0.000	0.000	0.000	0.048	0.501	0.126	0.079	0.000	-0.015	0	100	0	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
738	0.000	0.000	0.000	0.000	0.000	0.263	0.533	1.003	0.903	-0.078	0.000	0	0	100	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	CSO000
739	0.000	0.000	0.000	0.000	0.000	0.552	0.026	-0.193	0.112	0.073	0.000	0	0	100	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
740	-0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.030	0.051	0.049	-0.008	0	100	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
741	0.000	0.000	0.000	0.000	0.000	0.030	0.008	0.000	0.064	0.008	0.000	0	100	0	0	50	50	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
742	-0.004	0.000	0.000	0.000	0.000	0.030	1.335	1.234	3.251	0.481	0.000	0	100	0	0	0	5	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
743	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.040	0.000	0	100	0	0	0	100	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
744	0.382	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.149	0	100	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
745	0.035	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010	0.040	0	100	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
746	0.000	0.000	0.000	0.000	0.000	0.000	0.301	0.846	0.220	0.044	-0.015	0	0	100	0	0	0	10: PC21 Nominated			N					N/A	N/A	xxx98
747	0.000	0.000	0.000	0.000	0.000	0.000	0.099	0.121	0.067	-0.001	0.000	0	100	0	0	25	25	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
748	-0.006	0.000	0.000	0.000	0.000	0.000	0.788	3.044	0.372	0.084	-0.001	31	39	12	18	7	12	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
749	1.198	0.000	0.000	0.000	0.000	0.000	0.000	0.327	1.430	1.456	1.657	0	0	0	100	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
750	-0.001	0.000	0.000	0.000	0.000	0.000	0.015	0.121	0.161	0.055	0.000	0	0	0	100	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
751	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.127	0.035	0.001	0.000	0	100	0	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
752	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.032	0.042	0.000	-0.005	0	100	0	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
753	-0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.300	0.339	0.258	0.000	0	100	0	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
754	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.063	0.024	-0.011	100	0	0	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
755	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.161	0.433	0.129	0.005	0	100	0	0	0	100	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
756	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.286	0.345	-0.124	-0.051	0	100	0	0	0	100	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
757	-0.013	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.064	0.040	0.003	0	0	100	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98

| Block A - Project Identification | | |

| Block A - Project Identification | | | | | | Block B - Baseline Milestone Dates | | | | | | Block C - Baseline Service Cost Allocation (%) | | | | | Block D - Baseline Expenditure Profile (£in 2018-19 prices) | | | | | | | | | | Block E - Baseline Purpose Allocation | | | | | Block F - Current Actual or Projected Milestone Dates | | | | | | | | | | Block G - Current Actual or Projected Service Cost Allocation | | | | | Block H - Current Actual Projected Capital Expenditure Profile (£m money of the day) | | | | | | | | | | Block I - Current Actual or Projected Purpose Allocation (%) | | | | | Block J - Current Actual or Projected Risk | | Block K - Nominated outputs (PC Period) | Block L - Living with Water Programme | | Block M - PC21 To Be Determined Projects | | | | | | Block N - Integrated Environmental Modelling | Block O - Integrated Environmental Modelling | Block P - Summary Programme Line Identifier | |
|---|---|---

Block A - Project Identification / Block B - Baseline Milestone Dates / Block C - Baseline Service Cost Allocation (%)

Sort Ref (1) SORT	CIM Submission Reference (2) CIM_Sub	Project ID Reference (3) PI_Project_ID	Project Name (4) PI_Project_Name	Parent Project ID (5) PI_PARENT_Project_ID	Substitute Project ID (6) PI_SUBSTITUTE_Project_ID	Primary Asset Category (7) PI_Pri_Asset_Cat	PC21 Programme (8) PI_PC21_Prog	Regulatory Sign-Off Required (9) PI_Reg_Signoff	Baseline A1 Date (10) BLM_AI	Baseline Project Approval Date (11) BLM_Project_Approval	Baseline Start on Site Date (12) BLM_SoS	Baseline Beneficial Use Date (13) BLM_BU	Baseline Regulatory sign-off Date (14) BLM_RSO	Baseline Completion of Construction Date (15) BLM_CoC	Baseline End of Maintenance Period Date (16) BLM_EoMP	Baseline Service Allocation Water Infrastructure (17) BSA_WI%	Baseline Service Allocation Water Non-Infrastructure (18) BSA_WNI%	Baseline Service Allocation Sewerage Infrastructure (19) BSA_SI%	Baseline Service Allocation Sewerage Non-Infrastructure (20) BSA_SNI%
CALC			Total capital expenditure reported																
1268	23_24 Q4	NA069	Improving Efficiency in Wastewater Treatment via Proces			14: Sewera	20z: Mana												
1269	23_24 Q4	NA072	Improving Efficiency in Water Treatment via Process Eng			02: Water	20z: Mana												
1270	23_24 Q4	NA074	Source Optimisation - West Zone			02: Water	05z: Water	NA								60	40	0	0
1271	23_24 Q4	NA075	SBRI Water Treatment Phase 2			02: Water	20z: Mana	NA											
1272	23_24 Q4	NA076	SBRI Waste Water Treatment Phase 1			09: Sewag	20j: Energy	N/A											
1273	23_24 Q4	NA085	2021 Apprentice Toughbooks & Accesories			15: Genera	20z: Mana	NA											
1274	23_24 Q4	NA086	Servers for Royal Haskonings North Coast Demonstrator			09: Sewag	20j: Energy	NA											
1275	23_24 Q4	NA087	SBRI Phase 2 - Optimisation of Wastewater Treatment			15: Genera	20j: Energy	NA											
1276	23_24 Q4	NA088	SBRI Water Phase 2 and 3			15: Genera	20j: Energy	NA											
1277	23_24 Q4	NA089	SBRI Energy Recovery from WwT Process			15: Genera	20j: Energy	NA											
1278	23_24 Q4	NA090	SBRI: Hydrogen Logistics			15: Genera	20j: Energy	NA											
1279	23_24 Q4	NA091	Cooling Water Appraisal at Belfast WwTW			15: Genera	20j: Energy	NA											
1280	23_24 Q4	NA103	IO Tools and Technology			15: Genera	20f: Planni	NA											
1281	23_24 Q4	NA104	SBRI smart sewer network			14: Sewera	20f: Planni	NA											
1282	23_24 Q4	NA105	North Coast			15: Genera	20j: Energy	NA											
1283	23_24 Q4	NA106	SBRI Smart Sewer Network Phase 2			14: Sewera	20j: Energy	NA											
1284	23_24 Q4	OP058	M&E Stores Rationalisation			15: Genera	20z: Mana												
1285	23_24 Q4	OP062	Water Fittings Regulations Connect3 System			06: Water	20a: PC15	NA											
1286	23_24 Q4	OP064	TMG - Vehicle & Plant Replacements 16/17			15: Genera	20z: Mana												
1287	23_24 Q4	OP067	TMG - V&P Requirements (17/18)			15: Genera	20z: Mana												
1288	23_24 Q4	OP068	TMG - V&P Requirements (18/19)			15: Genera	20z: Mana	NA											
1289	23_24 Q4	OP069	TMG - V&P Requirements (19/20)			15: Genera	20c: Base/	NA											
1290	23_24 Q4	OP070	TMG - V&P Requirements (20/21)			15: Genera	20c: Base/	NA											
1291	23_24 Q4	OP071	ITS Restoration Trailer			15: Genera	20z: Mana	N/A											
1292	23_24 Q4	OP072	FMG - V&P Requirements (21/22)			15: Genera	20c: Base/	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027		0	50	0	50
1293	23_24 Q4	OP073	FMG - V&P Requirements (22/23)			15: Genera	20c: Base/	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027		0	50	0	50
1294	23_24 Q4	OP074	FMG - V&P Requirements (23/24)			15: Genera	20c: Base/	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027		0	50	0	50
1295	23_24 Q4	OP075	FMG - V&P Requirements (24/25)			15: Genera	20c: Base/	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027		0	50	0	50
1296	23_24 Q4	OP076	FMG - V&P Requirements (25/26)			15: Genera	20c: Base/	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027		0	50	0	50
1297	23_24 Q4	OP077	FMG - V&P Requirements (26/27)			15: Genera	20c: Base/	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027		0	50	0	50
1298	23_24 Q4	PL002	2PL2 Wastewater PL Phase 1			15: Genera	20z: Mana												
1299	23_24 Q4	PL006	Repair & Maintenance Review Project			06: Water	20z: Mana												
1300	23_24 Q4	PL010	Temporary IOC			15: Genera	20f: Planni	NA								0	50	0	50
1301	23_24 Q4	QC021	2016/17 SCAMP NI (Sustainable Catchment Area Manag			06: Water	03c: Catch												
1302	23_24 Q4	QC024	2017/18 SCAMP NI (Sustainable Catchment Area Manag			06: Water	03c: Catch												
1303	23_24 Q4	QC026	Laboratory Capital 18/19			15: Genera	20z: Mana												
1304	23_24 Q4	QC027	2018/19 SCAMP NI Projects			06: Water	20z: Mana												
1305	23_24 Q4	QC028	CSOLS AQC Tools UOM Licensing			06: Water	20z: Mana												
1306	23_24 Q4	QC029	Laboratory Capital 19/20			15: Genera	20c: Base/	N/A											
1307	23_24 Q4	QC030	Laboratorys Additional Capital 18/19			15: Genera	20c: Base/	N/A											
1308	23_24 Q4	QC031	Laboratory Capital 20/21			15: Genera	20c: Base/	NA											
1309	23_24 Q4	QC032	Waste Water Random Sampling Project 18/19			09: Sewag	20z: Mana												
1310	23_24 Q4	QC033	2019/20 SCAMP NI Projects			01: Water	03c: Catch	N/A											
1311	23_24 Q4	QC035	Laboratorys additional Capital 19/20			15: Genera	20z: Mana												
1312	23_24 Q4	QC036	Laboratory Capital - Additional need Part 3 19/20			15: Genera	20c: Base/	N/A											
1313	23_24 Q4	QC037	Laboratory Capital Need 4			15: Genera	20z: Mana												
1314	23_24 Q4	QC038	UPS Systems for Lab's			15: Genera	20z: Mana												
1315	23_24 Q4	QC039	Mournes Sustainable Land Management Project			06: Water	20z: Mana	NA											
1316	23_24 Q4	QC041	Pesticide Analysis Equipment (LCMS) for Analytical Serv			15: Genera	20c: Base/	NA											
1317	23_24 Q4	QC042	Laboratory Capital 21/22			15: Genera	20c: Base/	NA											
1318	23_24 Q4	QC043	SCAMP NI			01: Water	03c: Catch	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027		0	100	0	0
1319	23_24 Q4	QC044	Wastewater Surveillance-Covid 19			15: Genera	20g: Other	N/A											
1320	23_24 Q4	QC045	Laboratory Capital Equipment 22/23			15: Genera	20c: Base/	NA											
1321	23_24 Q4	QC046	Lab Capital 23/24			15: Genera	20c: Base/	NA											
1322	23_24 Q4	QC047	Laboratory Capital 24/25			15: Genera	20c: Base/	NA											
1323	23_24 Q4	QC048	Laboratory Capital 25/26			15: Genera	20c: Base/	NA											
1324	23_24 Q4	QC049	Pilot Plant R&D			15: Genera	20l: Innova	NA											
1325	23_24 Q4	QC050	Additional Lab Capital 22/23			15: Genera	20c: Base/	NA											
1326	23_24 Q4	QC051	Equipment for Algae Analysis			06: Water	20g: Other	NA											
1327	23_24 Q4	SP001	SP00 PC21 Holding Line - Capitalised Salaries			15: Genera	00: Capital	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027		5	11	40	44
1328	23_24 Q4	SP010	SP02 PC21 Holding Line - WWTW Base Maintenance - I			09: Sewag	02a: WwTW	NA								0	0	0	100
1329	23_24 Q4	SP014	P08 PC21 Holding Line - Watermains Rehab			03: Water	08z: Water	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027		100	0	0	0
1330	23_24 Q4	SP015	SP09 PC21 Holding Line - Leakage and Leakage Enhan			03: Water	09z: Leaka	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027		100	0	0	0
1331	23_24 Q4	SP016	SP10 PC21 Holding Line - Operational Capital			15: Genera	10z: Ops C	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027		78	22	0	0
1332	23_24 Q4	SP017	Antrim DA Lisnevenagh Road DG5 Baseline			07: Sewera	12d: DG5	NA	01/04/2022	01/04/2022	01/04/2023	31/03/2025		31/03/2025		0	0	100	0
1333	23_24 Q4	SP018	SP97 PC21 Holding Line - IFRS			15: Genera	97z: Mana	NA								100	0	0	0
1334	23_24 Q4	SP019	SP12 PC21 Holding Line - Ballyclare DA UID-Park Stree			07: Sewera	12b: WwPS	NIEA	01/04/2025	01/04/2025	01/04/2026	31/03/2028	31/03/2028	31/03/2028		0	0	100	0
1335	23_24 Q4	SP022	SP12 PC21 Holding Line - Glenmachan Project Phase 2			07: Sewera	12b: WwPS	NIEA	01/04/2021	01/04/2021	01/08/2021	31/03/2023	31/03/2023	31/03/2023		0	0	100	0
1336	23_24 Q4	SP023	SP12 PC21 Holding Line - Kilkeel DA - Location 28 River			07: Sewera	12g: Storm	NA	01/04/2023	01/04/2023	01/04/2024	31/03/2026		31/03/2026		0	0	100	0
1337	23_24 Q4	SP026	SP12 PC21 Holding Line - Belfast DAP			07: Sewera	12b: WwPS	NIEA	01/04/2021	01/04/2021	01/04/2022	31/03/2027	31/03/2027	31/03/2027		0	0	100	0
1338	23_24 Q4	SP028	SP12 PC21 Holding Line - Glenmachan TPS			13: Termin	12b: WwPS	NIEA	01/04/2021	01/04/2021	01/04/2022	31/03/2024	31/03/2024	31/03/2024		0	0	100	0
1339	23_24 Q4	SP029	SP12 PC21 Holding Line - Kinnegar DAP			07: Sewera	12b: WwPS	NIEA	01/04/2021	01/04/2021	01/04/2022	31/03/2027	31/03/2027	31/03/2027		0	0	100	0
1340	23_24 Q4	SP030	SP12 PC21 Holding Line - New Growth			07: Sewera	12c: WwPS	NIEA	01/04/2021	01/04/2021	01/08/2021	31/03/2027	31/03/2027	31/03/2027		0	0	100	0
1341	23_24 Q4	SP031	SP12 PC21 Holding Line - Strabane DA UID - Park Road			07: Sewera	12b: WwPS	NIEA	01/04/2024	01/04/2024	01/04/2026	31/03/2028	31/03/2028	31/03/2028		0	0	100	0
1342	23_24 Q4	SP032	SP12 PC21 Holding Line - York Street Storm Separation			07: Sewera	12g: Storm	NA	01/04/2025	01/04/2025	01/04/2026	31/03/2027		31/03/2027		0	0	100	0
1343	23_24 Q4	SP033	Belfast WwTW - Bretland House Baseline			09: Sewag	16b: Bathin	NA	01/04/2021	01/04/2021	01/04/2022	31/03/2023		31/03/2023		0	0	0	100
1344	23_24 Q4	SP035	SP16 PC21 Holding Line - Belfast WwTW - Odour Contr			09: Sewag	16e: Odour	NA	01/04/2024	01/04/2024	01/04/2026	31/03/2028		31/03/2028		0	0	0	100
1345	23_24 Q4	SP036	SP16 LWWP PC21 Holding Line - Carrick DAP			07: Sewera	16b: Bathin	NA	01/04/2021	01/04/2021	01/04/2023	31/03/2024	31/03/2024	31/03/2024		0	0	100	0
1346	23_24 Q4	SP037	SP16 PC21 Holding Line - Sustainable WwTW's Progran			09: Sewag	16z: Waste	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027		0	0	0	100
1347	23_24 Q4	SP039	SP18 PC21 Holding Line - Operational Capital			15: Genera	18z: Ops c	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027		0	9	38	53
1348	23_24 Q4	SP040	SP19 PC21 Holding Line - Metering			01: Water	19z: Meter	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027		13	87	0	0
1349	23_24 Q4	SP051	SP20 PC21 Holding Line - Innovation			15: Genera	20l: Innova	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027		25	25	25	25
1350	23_24 Q4	SP052	SP20 PC21 Holding Line - Oracle Platform for PC21 - SN			14: Sewera	20c: Base/	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027		0	0	0	100
1351	23_24 Q4	SP053	SP20 PC21 Holding Line - Oracle Platform for PC21 - W			06: Water	20c: Base/	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027		0	100	0	0
1352	23_24 Q4	SP056	SP20 PC21 Holding Line - Recreation & Access and Tre			06: Water	20d: Estate	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2022		31/03/2022		100	0	0	0
1353	23_24 Q4	SP058	SP23 PC21 Holding Line - Trunk Main Rehabilitation			03: Water	23c: Trunk	NA	01/04/2022	01/04/2022		31/03/2026		31/03/2026		100	0	0	0
1354	23_24 Q4	SP059	SP24 PC21 Holding Line - First Time Service Run Rates			07: Sewera	24a: Sewe	NA	01/04/2021	01/04/2021	01/08/2021	31/03/2027		31/03/2027		0	0	100	0
1355	23_24 Q4	SP060	PC21 Holding Line - Interreg Water			01: Water	99z: Mana	NA								0	0	0	100
1356	23_24 Q4	SP061	PC21 Holding Line - Interreg Sewerage			07: Sewera	99z: Mana	NA								0	100	0	0
1357	23_24 Q4	WD081	Networks M&E, ICA and Telemetry - EAST Planned PC1			05: Faciliti	10z: Ops C	NA											
1358	23_24 Q4	WD082	Networks M&E, ICA and Telemetry - EAST Unplanned P			05: Faciliti	10z: Ops C	NA											
1359	23_24 Q4	WD083	Networks M&E, ICA and Telemetry - WEST Planned PC			05: Faciliti	10z: Ops C	NA											
1360	23_24 Q4	WD084	Networks M&E, ICA and Telemetry - WEST Unplanned F			05: Faciliti	10z: Ops C	NA											
1361	23_24 Q4	WD086	Reservoir and WPS - Civil EAST PC15			04: Service	10z: Ops C	NA											
1362	23_24 Q4	WD087	Reservoir and WPS - Civil WEST PC15			04: Service	10z: Ops C	NA											
1363	23_24 Q4	WD089	H&S and Site Security EAST PC15			04: Service	10z: Ops C	NA											
1364	23_24 Q4	WD090	H&S and Site Security WEST PC15			04: Service	10z: Ops C	NA											
1365	23_24 Q4	WD092	General enhancements at hub buildings (Non-Infra) PC1			15: Genera	10z: Ops C	NA											
1366	23_24 Q4	WD095	Networks M&E, ICA and Telemetry PC21			03: Water	10z: Ops C	NA											
1367	23_24 Q4	WD097	Reservoir and WPS - Civil PC21			03: Water	10z: Ops C	NA											
1368	23_24 Q4	WD099	H&S & Site Security PC21			03: Water	10z: Ops C	NA											
1369	23_24 Q4	WD101	SR Condition Assessments PC21			03: Water	10z: Ops C	NA											
1370	23_24 Q4	WD103	General enhancements at hub buildings (Non-Infra) PC2			03: Water	10z: Ops C	NA											
1371	23_24 Q4	WD105	PRV flow/pressure modulation controllers			03: Water	10z: Ops C	NA											
1372	23_24 Q4	WD106	Telemetry installations & Improved controls at WBS			03: Water	10z: Ops C	NA											
1373	23_24 Q4	WD107	Pressure Monitoring of all PMAs			03: Water	10z: Ops C	NA											
1374	23_24 Q4	WD108	Emergency Equipment			03: Water	10z: Ops C	NA											
1375	23_24 Q4	WS113	Enchancements to plant PC15			02: Water	10z: Ops C	NA											
1376	23_24 Q4	WS114	Enchancement of defective operational assets PC15			02: Water	10z: Ops C	NA											
1377	23_24 Q4	WS116	Enchancements to plant PC15			02: Water	10z: Ops C	NA											
1378	23_24 Q4	WS117	Enchancement of defective operational assets PC15			02: Water	10z: Ops C	NA											
1379	23_24 Q4	WS119	Activated Carbon - East PC15			02: Water	10z: Ops C	NA											
1380	23_24 Q4	WS120	Activated Carbon - West PC15			02: Water	10z: Ops C	NA											
1381	23_24 Q4	WS124	Water Supply - Plant and Equipment PC21			03: Water	10z: Ops C	NA											
1382	23_24 Q4	WS125	Water Supply - Civil PC21			03: Water	10z: Ops C	NA											
1383	23_24 Q4	WS126	Water Supply - H&S and Site Security PC21			03: Water	10z: Ops C	NA											
1384	23_24 Q4	WS128	Water Supply - Plant and Equipment PC21			03: Water	10z: Ops C	NA											
1385	23_24 Q4	WS129	Water Supply - Civil PC21			03: Water	10z: Ops C	NA											
1386	23_24 Q4	WS130	Water Supply - H&S and Site Security PC21			03: Water	10z: Ops C	NA											
1387	23_24 Q4	WS132	Activated Carbon - East PC21			03: Water	10z: Ops C	NA											
1388	23_24 Q4	WS133	Activated Carbon - West PC21			03: Water	10z: Ops C	NA											
1389	23_24 Q4	WS135	Impounding Reservoirs			01: Water	03a: WR&S	NA											
1390	23_24 Q4	WW001	Vehicle mounted jetter			07: Sewera	18z: Ops c	NA											
1391	23_24 Q4	XX991	Overprofile for LWWP team			15: Genera	20z: Mana	NA											
1392	23_24 Q4	XX992	Overprofile E and S Directorate			15: Genera	99z: Mana	NA											
1393	23_24 Q4	xx999	EP Management Adjustment			15: Genera	99z: Mana	NA											

Block D - Baseline Expenditure Profile (£m 2018-19 prices) / Block E - Baseline Purpose Allocation

Sort Ref	Baseline CAPEX 2013-14 £m (21) BL_Capex_2013-14_£m	Baseline CAPEX 2014-15 £m (22) BL_Capex_2014-15_£m	Baseline CAPEX 2015-16 £m (23) BL_Capex_2015-16_£m	Baseline CAPEX 2016-17 £m (24) BL_Capex_2016-17_£m	Baseline CAPEX 2017-18 £m (25) BL_Capex_2017-18_£m	Baseline CAPEX 2018-19 £m (26) BL_Capex_2018-19_£m	Baseline CAPEX 2019-20 £m (27) BL_Capex_2019-20_£m	Baseline CAPEX 2020-21 £m (28) BL_Capex_2020-21_£m	Baseline CAPEX 2021-22 £m (29) BL_Capex_2021-22_£m	Baseline CAPEX 2022-23 £m (30) BL_Capex_2022-23_£m	Baseline CAPEX 2023-24 £m (31) BL_Capex_2023-24_£m	Baseline Purpose Allocation Quality (38) BLPA_Q%	Baseline Purpose Allocation Base (39) BLPA_B%	Baseline Purpose Allocation ESL (40) BLPA_E%	Baseline Purpose Allocation Growth (41) BLPA_G%
CALC	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	187.697	252.949	319.021				
1268									0.000	0.000	0.000				
1269									0.000	0.000	0.000				
1270									0.111	0.000	0.000	0	0	0	100
1271									0.000	0.000	0.000				
1272									0.000	0.000	0.000				
1273									0.000	0.000	0.000				
1274									0.000	0.000	0.000				
1275									0.000	0.000	0.000				
1276									0.000	0.000	0.000				
1277									0.000	0.000	0.000				
1278									0.000	0.000	0.000				
1279									0.000	0.000	0.000				
1280									0.000	0.000	0.000				
1281									0.000	0.000	0.000				
1282									0.000	0.000	0.000				
1283									0.000	0.000	0.000				
1284									0.000	0.000	0.000				
1285									0.000	0.000	0.000				
1286									0.000	0.000	0.000				
1287									0.000	0.000	0.000				
1288									0.000	0.000	0.000				
1289									0.000	0.000	0.000				
1290									0.000	0.000	0.000				
1291									0.000	0.000	0.000				
1292									2.130	0.000	0.000	0	89	11	0
1293									0.000	2.356	0.000	0	89	11	0
1294									0.000	0.000	2.408	0	89	11	0
1295									0.000	0.000	0.000	0	89	11	0
1296									0.000	0.000	0.000	0	89	11	0
1297									0.000	0.000	0.000	0	89	11	0
1298									0.000	0.000	0.000				
1299									0.000	0.000	0.000				
1300									1.065	0.000	0.000	0	0	100	0
1301									0.000	0.000	0.000				
1302									0.000	0.000	0.000				
1303									0.000	0.000	0.000				
1304									0.000	0.000	0.000				
1305									0.000	0.000	0.000				
1306									0.000	0.000	0.000				
1307									0.000	0.000	0.000				
1308									0.000	0.000	0.000				
1309									0.000	0.000	0.000				
1310									0.000	0.000	0.000				
1311									0.000	0.000	0.000				
1312									0.000	0.000	0.000				
1313									0.000	0.000	0.000				
1314									0.000	0.000	0.000				
1315									0.000	0.000	0.000				
1316									0.000	0.000	0.000				
1317									0.000	0.000	0.000				
1318									0.361	0.488	0.000	100	0	0	0
1319									0.000	0.000	0.000				
1320									0.000	0.000	0.000				
1321									0.000	0.000	0.000				
1322									0.000	0.000	0.000				
1323									0.000	0.000	0.000				
1324									0.000	0.000	0.000				
1325									0.000	0.000	0.000				
1326									0.000	0.000	0.000				
1327									11.952	16.577	16.685	22	48	10	20
1328									5.360	5.342	5.323	0	40	0	60
1329									0.000	0.000	2.905	33	52	3	12
1330									4.234	4.331	4.429	0	75	25	0
1331									8.298	8.488	8.681	4	44	0	52
1332									0.030	0.026	0.000	0	32	68	0
1333									-1.085	-1.118	-1.151	0	100	0	0
1334									0.000	0.000	0.000	84	16	0	0
1335									2.177	4.260	0.000	100	0	0	0
1336									0.000	0.000	0.006	100	0	0	0
1337									0.000	0.516	0.687	95	5	0	0
1338									0.000	0.000	0.318	65	35	0	0
1339									0.000	0.031	1.112	93	7	0	0
1340									0.009	0.009	0.009	0	95	0	5
1341									0.000	0.000	0.000	100	0	0	0
1342									0.000	0.000	0.000	0	100	0	0
1343									0.047	0.869	0.000	51	0	0	49
1344									0.000	0.000	0.000	0	0	100	0
1345									0.000	0.160	0.159	100	0	0	0
1346									0.000	0.036	0.035	0	0	0	100
1347									10.790	11.036	11.288	0	87	0	13
1348									1.881	1.924	1.968	0	85	13	2
1349									0.345	0.349	0.354	0	0	100	0
1350									0.073	0.074	0.075	0	100	0	0
1351									0.073	0.074	0.075	0	100	0	0
1352									0.000	0.803	0.000	0	9	91	0
1353									0.087	0.196	0.218	0	93	0	7
1354									3.141	3.743	3.683	0	0	0	100
1355									0.262	0.118	0.000	100	0	0	0
1356									0.126	0.000	0.000	100	0	0	0
1357									0.000	0.000	0.000				
1358									0.000	0.000	0.000				
1359									0.000	0.000	0.000				
1360									0.000	0.000	0.000				
1361									0.000	0.000	0.000				
1362									0.000	0.000	0.000				
1363									0.000	0.000	0.000				
1364									0.000	0.000	0.000				
1365									0.000	0.000	0.000				
1366									0.000	0.000	0.000				
1367									0.000	0.000	0.000				
1368									0.000	0.000	0.000				
1369									0.000	0.000	0.000				
1370									0.000	0.000	0.000				
1371									0.000	0.000	0.000				
1372									0.000	0.000	0.000				
1373									0.000	0.000	0.000				
1374									0.000	0.000	0.000				
1375									0.000	0.000	0.000				
1376									0.000	0.000	0.000				
1377									0.000	0.000	0.000				
1378									0.000	0.000	0.000				
1379									0.000	0.000	0.000				
1380									0.000	0.000	0.000				
1381									0.000	0.000	0.000				
1382									0.000	0.000	0.000				
1383									0.000	0.000	0.000				
1384									0.000	0.000	0.000				
1385									0.000	0.000	0.000				
1386									0.000	0.000	0.000				
1387									0.000	0.000	0.000				
1388									0.000	0.000	0.000				
1389									0.000	0.000	0.000				
1390									0.000	0.000	0.000				
1391									0.000	0.000	0.000				
1392									0.000	0.000	0.000				
1393									0.000	0.000	0.000				

Block F - Current Actual or Projected Milestone Dates / Block G - Current Actual or Projected Service Cost Allocation

Sort Ref	Current Actual or Projected A1 Date (42) CAM_A1	Current Actual or Projected Project Approval Date (43) CAM_ProjectApproval	Current Actual or Projected Start on Site Date (44) CAM_SoS	Current Actual or Projected Beneficial Use Date (45) CAM_BU	Current Actual or Projected Regulatory sign-off Date (46) CAM_RSO	Current Actual or Projected Completion of Construction Date (47) CAM_CoC	Current Actual or Projected End of Maintenance Period Date (48) CAM_EoMP	Current Actual or Projected Service Allocation Water Infrastructure (49) CASA_WI%	Current Actual or Projected Service Allocation Water Non-Infrastructure (50) CASA_WNI%	Current Actual or Projected Service Allocation Sewerage Infrastructure (51) CASA_SI%	Current Actual or Projected Service Allocation Sewerage Non-Infrastructure (52) CASA_SNI%
1268	13/12/2019	17/12/2019						0	0	50	50
1269	13/01/2020	14/01/2020						0	100	0	0
1270	01/05/2020	11/05/2020						60	40	0	0
1271	27/08/2020	29/10/2020						0	100	0	0
1272	09/07/2020	16/07/2020						0	0	0	100
1273								0	50	0	50
1274	30/05/2022	30/05/2022						0	0	0	100
1275								0	0	0	100
1276								0	100	0	0
1277	28/02/2022	10/03/2022						0	0	0	100
1278	28/02/2022	10/03/2022						0	0	0	100
1279	30/07/2021	12/08/2021						0	0	0	100
1280	13/09/2022	20/09/2022						0	100	0	0
1281								0	0	0	100
1282								0	50	0	50
1283								0	0	0	100
1284	23/10/2016	01/11/2016						0	30	0	70
1285	05/03/2021	18/03/2021						0	100	0	0
1286	04/07/2016	05/07/2016						0	62	0	38
1287	16/01/2018	16/01/2018						0	60	0	40
1288	15/01/2019	15/01/2019						0	50	0	50
1289	19/12/2019	27/12/2019						0	50	0	50
1290	21/01/2021	21/01/2021						0	50	0	50
1291	10/02/2021	10/02/2021						0	100	0	0
1292	24/06/2021	24/06/2021						0	50	0	50
1293	25/10/2022	25/10/2022						0	50	0	50
1294								0	50	0	50
1295								0	0	0	0
1296								0	0	0	0
1297								0	0	0	0
1298	11/01/2016	11/01/2016						0	0	0	100
1299	30/06/2017	11/07/2017						0	100	0	0
1300	30/01/2020	30/01/2020						0	50	0	50
1301	15/04/2016	16/04/2016						0	100	0	0
1302	21/12/2016	04/01/2017						0	100	0	0
1303	23/04/2018	23/04/2018						0	51	0	49
1304	05/03/2018	08/03/2018						0	100	0	0
1305	16/05/2018	16/05/2018						0	51	0	49
1306	15/02/2019	20/02/2019						0	51	0	49
1307	17/10/2018	18/10/2018						0	51	0	49
1308	11/08/2020	18/08/2020						0	51	0	49
1309	12/03/2019	12/03/2019						0	0	0	100
1310	01/04/2019	02/04/2019						0	100	0	0
1311	11/07/2019	11/07/2019						0	49	0	51
1312	23/09/2019	24/09/2019						0	51	0	49
1313	02/01/2020	02/01/2020						0	51	0	49
1314	10/03/2020	10/03/2020						0	51	0	49
1315	05/08/2020	05/08/2020						0	100	0	0
1316	15/09/2020	16/09/2020						0	51	0	49
1317	16/09/2021	17/09/2021						0	51	0	49
1318	04/03/2021	04/03/2021						0	100	0	0
1319	26/11/2021	29/11/2021						0	0	0	100
1320	04/08/2022	04/08/2022						0	49	0	51
1321								0	51	0	49
1322								0	0	0	0
1323								0	0	0	0
1324	27/01/2023	31/01/2023						0	100	0	0
1325	12/12/2022	12/12/2022						0	49	0	51
1326								0	100	0	0
1327								5	11	40	44
1328								0	0	0	100
1329								100	0	0	0
1330								100	0	0	0
1331								78	22	0	0
1332								0	0	100	0
1333								100	0	0	0
1334								0	0	100	0
1335								0	0	100	0
1336								0	0	100	0
1337								0	0	100	0
1338								0	0	0	100
1339								0	0	100	0
1340								0	0	100	0
1341								0	0	100	0
1342								0	0	100	0
1343								0	0	0	100
1344								0	0	0	100
1345								0	0	100	0
1346								0	0	0	100
1347								0	9	38	53
1348								13	87	0	0
1349								25	25	25	25
1350								0	0	0	100
1351								0	100	0	0
1352								0	100	0	0
1353								100	0	0	0
1354								0	0	100	0
1355								0	100	0	0
1356								0	0	0	100
1357	03/04/2015	03/04/2015						0	100	0	0
1358	03/04/2015	03/04/2015						0	100	0	0
1359	03/04/2015	03/04/2015						0	100	0	0
1360	03/04/2015	03/04/2015						0	100	0	0
1361	03/04/2015	03/04/2015						0	100	0	0
1362	03/04/2015	03/04/2015						0	100	0	0
1363	03/04/2015	03/04/2015						0	100	0	0
1364	03/04/2015	03/04/2015						0	100	0	0
1365	03/04/2015	03/04/2015						0	50	0	50
1366	23/02/2021	23/02/2021						0	100	0	0
1367	23/02/2021	23/02/2021						0	100	0	0
1368	23/02/2021	23/02/2021						0	100	0	0
1369	23/02/2021	23/02/2021						0	100	0	0
1370	23/02/2021	23/02/2021						0	0	0	0
1371	29/06/2021	29/06/2021						0	100	0	0
1372	29/06/2021	29/06/2021						0	100	0	0
1373	29/06/2021	29/06/2021						0	100	0	0
1374	29/06/2021	29/06/2021						0	100	0	0
1375	03/04/2015	03/04/2015						15	85	0	0
1376	03/04/2015	03/04/2015						15	85	0	0
1377	03/04/2015	03/04/2015						15	85	0	0
1378	03/04/2015	03/04/2015						15	85	0	0
1379	03/04/2015	03/04/2015						0	100	0	0
1380	03/04/2015	03/04/2015						0	100	0	0
1381	23/02/2021	23/02/2021						0	100	0	0
1382	23/02/2021	23/02/2021						0	100	0	0
1383	23/02/2021	23/02/2021						0	100	0	0
1384	23/02/2021	23/02/2021						0	100	0	0
1385	23/02/2021	23/02/2021						0	100	0	0
1386	23/02/2021	23/02/2021						0	100	0	0
1387	23/02/2021	23/02/2021						0	100	0	0
1388	23/02/2021	23/02/2021						0	100	0	0
1389								100	0	0	0
1390								0	0	0	100
1391								0	0	50	50
1392								25	25	25	25
1393								0	0	0	100

Block H - Current Actual Projected Capital Expenditure Profile (£m money of the day)

Sort Ref	Current actual project capital expenditure for year to date (53) CAP_Capex_YTD_£m	CAPEX 2013-14 £m (54) CAP_Capex_2013-14_£m	CAPEX 2014-15 £m (55) CAP_Capex_2014-15_£m	CAPEX 2015-16 £m (56) CAP_Capex_2015-16_£m	CAPEX 2016-17 £m (57) CAP_Capex_2016-17_£m	CAPEX 2017-18 £m (58) CAP_Capex_2017-18_£m	CAPEX 2018-19 £m (59) CAP_Capex_2018-19_£m	CAPEX 2019-20 £m (60) CAP_Capex_2019-20_£m	CAPEX 2020-21 £m (61) CAP_Capex_2020-21_£m	CAPEX 2021-22 £m (62) CAP_Capex_2021-22_£m	CAPEX 2022-23 £m (63) CAP_Capex_2022-23_£m
CALC	341.501	30.155	43.074	71.854	100.838	116.652	129.673	134.779	155.689	224.674	294.886
1268	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.020	0.126	0.000	0.000
1269	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.006	0.135	0.000	0.000
1270	-0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.015	0.000	0.000
1271	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.150	0.000	0.000
1272	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.178	-0.002	0.000
1273	-0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.070	-0.002	0.000
1274	-0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.006	-0.001	0.015
1275	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.150	0.000
1276	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.120	0.000
1277	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.250	0.200
1278	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.087	0.100
1279	-0.072	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.035	0.075
1280	0.283	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.189
1281	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.200
1282	0.043	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1283	0.400	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1284	0.000	0.000	0.000	0.000	0.000	0.179	0.146	0.000	-0.003	0.000	0.000
1285	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010	0.232	0.265
1286	0.000	0.000	0.000	0.000	1.791	0.000	-0.016	0.000	-0.014	0.000	0.000
1287	0.000	0.000	0.000	0.000	0.000	0.590	0.025	0.000	-0.001	0.000	0.000
1288	0.000	0.000	0.000	0.000	0.000	0.000	1.004	0.000	-0.027	0.000	0.000
1289	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.044	0.107	-0.008	0.000
1290	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.500	0.006	0.000
1291	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.066	0.000	0.000
1292	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.460	0.128
1293	1.605	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.264
1294	1.173	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1295	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1296	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1297	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1298	0.000	0.000	0.000	0.088	0.000	0.000	0.000	0.088	0.088	0.000	0.000
1299	0.000	0.000	0.000	0.000	0.000	0.067	0.141	0.013	-0.004	0.000	0.000
1300	-0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.375	1.091	1.840	0.172
1301	0.000	0.000	0.000	0.000	0.207	-0.015	0.014	0.000	-0.004	0.000	0.000
1302	0.000	0.000	0.000	0.000	0.000	0.197	0.028	0.000	-0.004	0.000	0.000
1303	0.000	0.000	0.000	0.000	0.000	0.000	0.065	0.000	-0.008	0.000	0.000
1304	0.000	0.000	0.000	0.000	0.000	0.000	0.128	0.000	-0.006	0.000	0.000
1305	0.000	0.000	0.000	0.000	0.000	0.000	0.010	0.002	-0.001	0.000	0.000
1306	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.237	0.039	-0.005	0.000
1307	0.000	0.000	0.000	0.000	0.000	0.000	0.023	0.013	0.000	-0.003	0.000
1308	-0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.523	0.087	0.000
1309	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.030	-0.001	0.000	0.000
1310	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.133	0.219	-0.002	0.000
1311	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.027	-0.001	0.000	0.000
1312	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.194	-0.003	-0.056	0.000
1313	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.026	-0.004	0.000	0.000
1314	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.018	0.000	0.000
1315	-0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.017	0.027	0.003
1316	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.330	0.000
1317	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.229	0.061
1318	-0.063	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.420	0.484
1319	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.132	0.049
1320	0.089	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.070
1321	0.106	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1322	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1323	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1324	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.025
1325	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.052
1326	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1327	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1328	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1329	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1330	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1331	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1332	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1333	-1.596	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-1.599	-1.210
1334	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1335	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1336	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1337	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1338	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1339	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1340	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1341	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1342	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1343	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1344	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1345	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1346	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1347	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1348	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1349	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1350	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1351	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1352	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1353	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1354	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1355	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1356	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1357	0.000	0.000	0.000	0.101	0.167	0.107	0.145	0.205	0.119	-0.001	-0.008
1358	0.000	0.000	0.000	0.093	0.095	0.067	0.081	0.078	0.070	-0.007	-0.005
1359	-0.001	0.000	0.000	0.102	0.155	0.137	0.088	0.290	0.087	0.000	0.000
1360	0.000	0.000	0.000	0.085	0.060	0.087	0.068	0.062	0.111	0.002	0.000
1361	0.000	0.000	0.000	0.173	0.145	0.147	0.122	0.081	0.159	-0.007	0.000
1362	-0.002	0.000	0.000	0.169	0.186	0.109	0.106	0.103	0.185	-0.004	-0.001
1363	0.000	0.000	0.000	0.175	0.127	0.126	0.122	0.029	0.140	-0.011	0.000
1364	0.000	0.000	0.000	0.147	0.133	0.120	0.077	0.076	0.145	-0.002	0.000
1365	0.000	0.000	0.000	0.073	0.151	-0.029	0.019	0.041	0.006	0.000	0.000
1366	0.656	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.575	0.270
1367	0.436	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.346	0.182
1368	0.296	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.284	0.301
1369	0.090	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.152	0.108
1370	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.022	0.000
1371	0.287	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.058	0.181
1372	0.331	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.146	0.419
1373	0.387	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.144	0.420
1374	0.173	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.102	0.115
1375	-0.008	0.000	0.000	0.410	0.472	0.318	0.227	0.584	0.365	-0.007	0.000
1376	-0.005	0.000	0.000	0.248	0.238	0.127	0.113	0.044	0.222	-0.015	0.000
1377	-0.004	0.000	0.000	0.525	0.530	0.422	0.325	0.509	0.531	-0.013	0.000
1378	0.000	0.000	0.000	0.153	0.167	0.120	0.117	0.087	0.320	0.000	0.000
1379	0.000	0.000	0.000	0.104	0.154	0.051	0.148	0.194	0.067	-0.017	0.000
1380	0.000	0.000	0.000	0.353	0.196	0.193	0.303	0.148	0.165	-0.002	0.000
1381	0.511	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.364	0.579
1382	0.087	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.066	0.088
1383	0.115	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.146	0.139
1384	0.546	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.659	0.636
1385	0.118	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.141	0.163
1386	0.075	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.040	0.068
1387	0.185	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.166	0.195
1388	0.294	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.173	0.220
1389	0.045	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1390	0.027	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1391	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1392	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1393	-3.230	-0.040	0.040	0.000	0.000	0.000	0.000	2.000	-0.900	-0.676	3.151

Block I - Current Actual or Projected Purpose Allocation (%) / Block J - Current Actual or Projected IRE (%) / Block K - Nominated outputs (PC Period) / Block L - Living with Water Programme / Block M - PC21 To Be Determined Projects / Block N - Drainage Area Plan / Block O - Integrated Environmental Modelling / Block P - Summary Programme Line Identifier

Sort Ref	Current Actual or Projected Purpose Allocation Quality (71) CAPPA_Q%	Current Actual or Projected Purpose Allocation Base (72) CAPPA_B%	Current Actual or Projected Purpose Allocation ESL (73) CAPPA_E%	Current Actual or Projected Purpose Allocation Growth (74) CAPPA_G%	Current Actual or Projected IRE Allocation Water (75) CAP_IRE_W%	Current Actual or Projected IRE Allocation Sewerage (76) CAP_IRE_S%	Nominated Output (77) NOM_Output	LWWP (Y/N) (78) LWWP_Marker	LWWP Catchment Delivery Plan (79) LWWP_CDP_ID	PC21 TBD Project (Y/N) (80) PC21_TBD_Marker	Baseline Submission Tranche (81) PC21_TBD_Sub_Tranche	Baseline Submission Date (82) PC21_TBD_BL_Sub_Date	Current Actual or Projected Submission Date (83) PC21_TBD_CAP_Sub_Date	Determined Date (84) PC21_TBD_Det_Date	DAP Reference (85) DAP_ID	IEM Reference (86) IEM_ID	Summary Programme Line Identifier (87) Summary_Prog_ID
1268	25	0	75	0	0	0				N					N/A	N/A	
1269	50	0	50	0	0	0				N					N/A	N/A	
1270	0	0	0	100	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
1271	50	0	25	25	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
1272	50	0	50	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	
1273	0	100	0	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
1274	50	0	50	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
1275	0	0	100	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
1276	100	0	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
1277	0	0	100	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
1278	0	0	0	100	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
1279	0	0	100	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
1280	0	0	0	100	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
1281	0	0	100	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
1282	0	0	100	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
1283	0	0	100	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
1284	0	100	0	0	0	0				N					N/A	N/A	
1285	0	100	0	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
1286	0	100	0	0	0	0				N					N/A	N/A	
1287	0	100	0	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	
1288	0	100	0	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
1289	0	100	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
1290	0	100	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
1291	0	100	0	0	0	0				N					N/A	N/A	NW0000
1292	0	0	0	100	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
1293	0	0	0	100	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
1294	0	100	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
1295	0	0	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
1296	0	0	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
1297	0	0	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
1298	0	0	100	0	0	0				N					N/A	N/A	
1299	0	100	0	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	
1300	0	0	100	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
1301	30	20	40	10	0	0				N					N/A	N/A	
1302	0	30	50	20	0	0	01: PC15 Non-Nominated			N					N/A	N/A	
1303	0	100	0	0	0	0				N					N/A	N/A	
1304	0	30	50	20	0	0				N					N/A	N/A	
1305	0	100	0	0	0	0				N					N/A	N/A	
1306	0	100	0	0	0	0				N					N/A	N/A	
1307	0	100	0	0	0	0				N					N/A	N/A	
1308	0	100	0	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	xxx98
1309	0	100	0	0	0	0				N					N/A	N/A	
1310	0	30	50	20	0	0	15: PC21 Non-Nominated			N					N/A	N/A	
1311	0	100	0	0	0	0				N					N/A	N/A	
1312	0	100	0	0	0	0				N					N/A	N/A	
1313	0	100	0	0	0	0				N					N/A	N/A	
1314	0	100	0	0	0	0				N					N/A	N/A	
1315	0	30	50	20	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
1316	0	100	0	0	0	0				N					N/A	N/A	
1317	0	100	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
1318	50	0	25	25	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
1319	0	50	50	0	0	0				N					N/A	N/A	
1320	0	100	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
1321	0	100	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
1322	0	0	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
1323	0	0	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
1324	50	0	0	50	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
1325	0	100	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
1326	50	0	0	50	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
1327	23	47	10	20	2	19	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
1328	0	40	0	60	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
1329	0	59	41	0	59	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
1330	0	75	25	0	75	0	15: PC21 Non-Nominated			N					N/A	N/A	LO0000
1331	4	44	0	52	34	0	15: PC21 Non-Nominated			N					N/A	N/A	
1332	0	32	68	0	0	32	15: PC21 Non-Nominated			N					DA0364	N/A	xxx98
1333	0	100	0	0	100	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
1334	84	16	0	0	0	16	15: PC21 Non-Nominated			Y	Batch 4	31/03/2023	31/03/2023		DA0363	IEM19	xxx98
1335	100	0	0	0	0	0	13: PC21 LWWP			N					DA0004	N/A	xxx98
1336	100	0	0	0	0	0	15: PC21 Non-Nominated			Y	Batch 4	31/03/2023	31/03/2023		N/A	IEM08	xxx98
1337	95	5	0	0	0	5	13: PC21 LWWP			Y	Batch 4	31/03/2023	31/03/2023		DA0004	N/A	xxx98
1338	65	35	0	0	0	0	13: PC21 LWWP			Y	Batch 4	31/03/2023	31/03/2023		DA0004	N/A	xxx98
1339	93	7	0	0	0	7	14: PC27 LWWP			Y	Batch 4	31/03/2023	31/03/2023		DA0016	N/A	xxx98
1340	0	95	0	5	0	95	13: PC21 LWWP			Y	Batch 4	31/03/2023	31/03/2023		N/A	N/A	xxx98
1341	100	0	0	0	0	0	15: PC21 Non-Nominated			Y	Batch 4	31/03/2023	31/03/2023		DA1022	N/A	xxx98
1342	0	100	0	0	0	100	13: PC21 LWWP			N					N/A	N/A	xxx98
1343	51	0	0	49	0	0	13: PC21 LWWP			N					N/A	N/A	xxx98
1344	0	0	100	0	0	0	13: PC21 LWWP			N					N/A	N/A	xxx98
1345	100	0	0	0	0	0	13: PC21 LWWP			Y	Batch 4	31/03/2023	31/03/2023		N/A	N/A	xxx98
1346	0	0	0	100	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
1347	0	87	0	13	0	33	15: PC21 Non-Nominated			N					N/A	N/A	
1348	0	85	13	2	11	0	15: PC21 Non-Nominated			N					N/A	N/A	
1349	0	0	100	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
1350	0	100	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
1351	0	100	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
1352	0	9	91	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
1353	0	93	0	7	93	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
1354	0	0	0	100	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
1355	100	0	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
1356	100	0	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
1357	0	100	0	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	NW0000
1358	0	100	0	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	NW0000
1359	0	100	0	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	NW0000
1360	0	100	0	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	NW0000
1361	0	100	0	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	NW0000
1362	0	100	0	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	NW0000
1363	0	100	0	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	NW0000
1364	0	100	0	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	NW0000
1365	0	100	0	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	NW0000
1366	0	100	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	NW0000
1367	0	100	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	NW0000
1368	0	100	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	NW0000
1369	0	100	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	NW0000
1370	0	0	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	NW0000
1371	0	100	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	NW0000
1372	0	100	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	NW0000
1373	0	100	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	NW0000
1374	0	100	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	NW0000
1375	0	100	0	0	15	0	01: PC15 Non-Nominated			N					N/A	N/A	WS0000
1376	0	100	0	0	15	0	01: PC15 Non-Nominated			N					N/A	N/A	WS0000
1377	0	100	0	0	15	0	01: PC15 Non-Nominated			N					N/A	N/A	WS0000
1378	0	100	0	0	15	0	01: PC15 Non-Nominated			N					N/A	N/A	WS0000
1379	0	100	0	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	WS0000
1380	0	100	0	0	0	0	01: PC15 Non-Nominated			N					N/A	N/A	WS0000
1381	0	100	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	WS0000
1382	0	100	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	WS0000
1383	0	100	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	WS0000
1384	0	100	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	WS0000
1385	0	100	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	WS0000
1386	0	100	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	WS0000
1387	0	100	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	WS0000
1388	0	100	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	WS0000
1389	10	60	10	20	0	0				N					N/A	N/A	
1390	0	100	0	0	0	0	15: PC21 Non-Nominated			N					N/A	N/A	WW0000
1391	40	20	20	20	0	10	13: PC21 LWWP			N					N/A	N/A	xxx98
1392	30	20	20	30	5	5	15: PC21 Non-Nominated			N					N/A	N/A	xxx98
1393	44	34	0	22	0	0	15: PC21 Non-Nominated			N					N/A	N/A	xxx98

Table 40 – Capital Investment Monitoring (CIM) Summary Report

Introduction

This chapter provides a consolidated report on Capital investment which draws on Chapters 30, 32, 35, 26, 36a and associated tables.

PPP

A PPP expenditure of [redacted] has been reported in these tables. £0.131m of this is attributed to Cap Sals.

There was no Capital spend in 2023/24 relating to PPP that is not included within the unitary charge payments. In relation to Capital additions the only Capital not included in this table is the PPP Alpha Capital maintenance charge of [redacted]

Capital investment driver allocation (Service categorisation and purpose allocation)

The Capital Investment Driver Allocation (CIDA) methodology has remained consistent as per recent PC15 / PC21 years. NI Water captures Service Categorisation, Life Categories (as reported in Table 34) and Purpose Allocation within our CIDA data capture. This data is captured within CPMR at project level and used for CIM (Table 40) and the other related AIR tables.

Based upon PC21 query responses on CIDA allocation NI Water have revised the CIDA allocation manual to reflect the revisions. These are being integrated into the capital projects. A CIDA training programme should be delivered to ensure project managers and consultants, maintain an understanding of the CIDA allocation process. This will enable new staff to be trained and current staff to have a refresher.

No apportionment has taken place during the analysis and table population stage as this was completed by Project Managers at the initiation of the project and reviewed at appropriate gateways for EP projects.

During 2023/24 all CIM (Table 40) information has been reported directly from CPMR and P6. For the related AIR Tables M & G spend has been reported from CPMR, but Operational Capital has had to be analysed manually as per previous years as the data on CPMR is not in a format that allows for robust reporting. Further refinements have been delayed to allow for more automation for the completion of the tables. As a result the same process used in AIR 23 has been adopted for AIR 24.

Assets Adopted at Nil Cost

Sewer adoptions paid by third parties of £39.018m are included in column 4, line 7 of Table 32 within Sewerage infrastructure enhancements. Sewerage Pumping Stations paid by third parties of £.907m are included in Col 5, line 12 within Sewerage non infrastructure enhancements.

All of the investment reported in block D of Table 36 is reported as 'Supply Demand Balance: New Development'.

The calculation of gross asset valuation for adopted sewerage assets is based on the unit costs derived from NI Water sewer framework rates.

The unit costs are applied by diameter banding and total lengths laid. The costs include pipe laying, pipe supply, laterals, manholes and compensation.

- The data reported in this table reconciles to the other AIR Tables.
- The table has been populated following the column definitions.
- Capitalised Salaries have been allocated by examining each of the 3 main investment areas as follows:
  - Capital works Programme
  - Management and General
  - Operations Capital

  The total Capitalised Salaries and overheads were pro-rated against each project on the CIM to arrive at a Salaries and overheads allocation for the single line on the CIM (Table 40) using the same method as applied in AIR 23.
- The variance between Table 40 (Q4 CIM) and other associated AIR tables is reported in Chapter 30. The main reason for variance is on complex projects which contain a blend of infra and non-infra as well as a blend of purpose allocations which does not allow for creating a robust 16 component summary. The AIR table's data is more reliable than table 40 for accuracy.

Total Asset Additions reconciliations

NI Water moved to IFRS accounting from GAAP in 2018/19

- Total asset additions – Water Service – Check to Table 25 line 5 col 4.
  For AIR 24 the reported numbers in these two tables are as follows:
  Table 25 – £150.275m
  Table 36 – £148.687m

The main variances in the above two figures are explained as follows:

a) PPP Alpha Capital maintenance is not included in Table 36
b) No decapitalised projects in 2023/24
c) An element of Capital Interest is included in table 25

- Total asset additions – Sewerage Service – Check to Table 25 line 5 Col 8.
  For AIR 24 the reported numbers in these two tables are as follows:
  Table 25 – £192.842m
  Table 36 – £192.860m

The main variances in the above two figures are explained as follows:

d) PPP Omega Capital Maintenance was not included in Table 36
e) No decapitalised projects in 2023/24
f) An element of Capital Interest is included in table 25
g) Sewerage service assets adopted at nil cost are not included in Table 25

Note: NI Water has complied with the column definitions in respect of the baseline and current actual or projected milestone dates in Table 40. The milestones dates are relevant, sequential and relate to the PC21 outputs.

Expenditure to reduce leakage

The Table 1 below provides a breakdown of the leakage expenditure in 2023/24. This includes the purpose allocations which have followed the principle as set out in PC21 Final Determination.

It should be noted that the figures reported include Leakage repair costs. These are completed by the Water Networks function, but the Leakage and Water Networks are now part of the Water Production Function. The opex costs reported in the table are the total

opex costs relating to Leakage. This is comprised of Leakage Function staff costs and leakage repair costs incurred by both the Leakage and Water Network function.

Table 1

Activity	In Year actual spend per category (£m)	Purpose allocation
Leakage detection costs - opex	3.500	OPEX
Leakage repair costs - opex	2.000	OPEX
Leakage detection costs - capex	0.000	Base
Leakage infra replacement repair costs - capex	0.490	Base
Leakage detection equip	1.012	Base
Leakage software upgrades and developments	0.048	Base
New leakage technology	0.289	Base
DMA[1] studies	0.651	Base
Trunk Main studies	0.064	SDB Growth
DMA optimisation	0.085	SDB Growth
Water balance asset data assessments	0.790	Base
ELL[2] reviews	-0.009	Base
Pressure Management	0.794	SDB Growth
PRV[3] replacements	0.346	Base
GSM[4] Loggers/Meter studies/Meter replacement	3.656	Base
Other	0.000	Base
IFRS Adjustment	-1.596	Base
Total (OPEX)	5.500	
Total (Capex)	6.620	
Total Leakage investment	12.120	

Capital programme variance

The Capital programme for 2023/24 when compared to the PC21 Final Determination has over delivered in the 'Water Service' Programme but under delivered in the 'Sewerage Service'. It is important to note that NI Water will require full funding to deliver the PC21 Final Determination across the price control period.

The main reasons for variance in forecast are as follows:

[1] District Metered Area – zoned area of water distribution network.

[2] Economic Level of Leakage – assessment of benefits gained from fixing leakage against costs of fixing.

[3] Pressure Reducing Valve – used to manage pressure within the infrastructure network.

[4] Global System for Mobile Communication – used where conventional telemetry/radio systems are not appropriate.

a) Underfunding in CDEL allocation in year resulted in variances against planned FD
b) Early investment in SP04 following a Change Control submission to the UR.
c) £10m overage in SP06 relating to increased costs associated with CWTs, these are currently under review by NI Water Cost Managers.
d) £16m and £33m in SP12 and SP16 which are currently awaiting determination on a large number of schemes from the Scope Uncertainty submissions.
e) £17m in SP20 which mainly relates to a single project to address H&S concerns and legislative requirements. Should all of this work be deemed necessary then a number of projects in SP20 shall not proceed to accommodate the expenditure.

Energy efficiency and renewable energy schemes

A summary of Energy efficiency and renewable energy schemes is included in Annex A at the end of this document.

2023/24 Q4 Capital Investment Monitoring Return (Table 40)

Company Baseline

A PC21 baseline is included in this Capital Investment Monitoring (CIM) submission. The PC21 capital baseline is a detailed listing of projects and programmes of work, the costs and outputs which have been presented to the Utility Regulator through the Price Control process. The baseline is expressed in 2018/19 prices, post efficiency.

Capital Expenditure Commentary

This submission is completed primarily using CPMR with full reconciliation completed to ORACLE.

The following Table 2 is a summary of CAPEX expenditure in 2023/24 (excluding contributions) at the end of Q4 as per ORACLE and reconciled to the CIM submission shown in money of the day.

Table 2

	£m
Total Gross capital expenditure as per ORACLE	340.714
Capital works programme expenditure	271.947
Operations Capital from CPMR	7.930
M & G capital from CPMR	38.221
Capitalised Salaries and overheads	24.280
Reconciled Total	340.714

During the period (April 2023 – March 2024) there has been Capital income in the form of Grants and Contributions totalling to £10.608m. This figure is not included on the CIM submission.

Inflation Assumptions

The project costs reported in the 'current actual or projected' portion of the CIM are in current prices. All project costs are captured in nominal prices as no inflation assumptions are applied within CPMR. Capital expenditure within the Final Determination was inflated by RPI which was linked to projections made by the Office for Budgetary Responsibility (OBR) in March 2014. This allowed 3.4% RPI annually through the six year period. Table 3 shows actual RPI in 2021/22, 2022/23, 2023/24 and OBR forecast figures for the years 2025/26 and 2026/27 (based on March 2024 economic and fiscal outlook). This shows an increase in inflation levels from that assumed in the PC21 FD. NI Water continue to monitor the OBR view of RPI.

Table 3 Inflation (RPI) projections

	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27
PC21 FD assumed Indices	302.016	308.354	315.922	324.907	334.540	344.576
	2.57%	2.10%	2.45%	2.84%	2.96%	3.00%
Current actual and projected indices (OBR Mar 2023)	311.16	351.22	377.48	386.63	395.14	405.53
	5.78%	12.87%	7.48%	2.42%	2.20%	2.63%

Reconciliation with Table 36

Table 36 - Water service nominal expenditure

Gross Capital expenditure - Water Service		T36 £m	CIM £m	Variance £m	Variance %
1	MNI (gross of grants and contributions)	61.337	51.016	-10.321	-20.23
2	Infrastructure renewals expenditure (gross)	29.986	33.853	3.867	11.42
3	Capex: Total quality enhancement programme	9.806	9.060	-0.745	-8.23
4	Capital expenditure - customer service	16.590	15.716	-0.874	-5.56
5	Capital expenditure - supply demand balance	30.968	28.583	-2.385	-8.35
6	Gross Capital expenditure - Water Service	148.687	138.229	-10.458	-7.57

Table 36 - Sewerage service nominal expenditure

Gross Capital expenditure - Sewerage Service		T36 £m	CIM £m	Variance £m	Variance %
7	MNI (gross of grants and contributions)	71.291	71.494	0.203	0.28
8	Infrastructure renewals expenditure (gross)	28.298	33.536	5.238	15.62
9	Capex: Total quality enhancement programme	46.323	46.843	0.519	1.11
10	Capital expenditure: customer service	13.435	15.659	2.225	14.21
11	Capital expenditure supply demand balance	33.513	35.741	2.228	6.23
12	Gross Capital expenditure - Sewerage Service	192.860	203.273	10.413	5.12

In the above table, a comparison is presented of the CIM (Table 40) and Table 36. Assets adopted at NIL cost reported in Table 36 have been excluded from this comparison. The variances shown arise because the data held for population of the AIR tables has direct links between the asset type, service area and investment driver. Where there are complex projects, this detail is required to provide an accurate analysis of the expenditure. The summary detail on the CIM does not give a full transparency of this detail as the direct link between asset type, service area and investment area is lost but does give a reasonable interpretation of the investment. In addition, direct comparison is difficult as Capitalised Salaries and overheads are a single line on the CIM which has had a service allocation and purpose allocation applied based on the rest of the programme. For AIR 24 the Capital salaries and overheads were applied by examining each of the three elements of the programme namely, CWP, M & G and Operations Capital and assigning Salaries and Overheads against each of these programmes before combining into a single line. Whilst still not exact it more closely reflects the way salaries are allocated to individual projects. Within AIR the Capitalised Salaries and overhead information is included within individual project costs. As well as this, a large variance is observed in the Sewerage Service due to the fact that INTERREG projects to a value of ca £0.744m are not reported on in the CIM however they are included for completeness in the AIR figures.

Sixteen Box Summary

2023/24 Current Actual Projected 16 box summary showing expenditure £m (nominal)

	Quality Enhancement	Base Service provision	Enhanced service levels	Supply Demand Balance	Totals
Water Infrastructure	4.16	33.85	3.04	10.45	51.49
Water Non-Infrastructure	4.90	51.02	12.68	18.14	86.74
Sewerage Infrastructure	13.94	33.54	7.08	8.45	63.01
Sewerage Non-Infrastructure	32.90	71.49	8.58	27.29	140.26
Totals	55.90	189.90	31.38	64.32	341.50

2023/24 Current Actual Projected 16 box summary in percentages

	Quality Enhancement	Base Service provision	Enhanced service levels	Supply Demand Balance	Totals
Water Infrastructure	1.2%	9.9%	0.9%	3.1%	15.1%
Water Non-Infrastructure	1.4%	14.9%	3.7%	5.3%	25.4%
Sewerage Infrastructure	4.1%	9.8%	2.1%	2.5%	18.5%
Sewerage Non-Infrastructure	9.6%	20.9%	2.5%	8.0%	41.1%
Totals	16.4%	55.6%	9.2%	18.8%	100.0%

2023/24 Baseline 16 box summary showing expenditure £m (2018/19 prices)

	Quality Enhancement	Base Service Provision	Enhanced Service Levels	Supply Demand Balance	Totals
Water Infrastructure	6.16	23.71	6.26	15.91	52.03
Water Non-Infrastructure	3.81	27.89	12.35	3.06	47.11
Sewerage Infrastructure	24.74	19.66	8.52	11.03	63.95
Sewerage Non-Infrastructure	36.67	53.19	13.13	34.41	137.39
Totals	71.38	124.44	40.25	64.41	300.48

2023/24 Baseline Projected 16 box summary in percentages

	Quality Enhancement	Base Service Provision	Enhanced Service Levels	Supply Demand Balance	Totals
Water Infrastructure	2.0%	7.9%	2.1%	5.3%	17.3%
Water Non-Infrastructure	1.3%	9.3%	4.1%	1.0%	15.7%
Sewerage Infrastructure	8.2%	6.5%	2.8%	3.7%	21.3%
Sewerage Non-Infrastructure	12.2%	17.7%	4.4%	11.5%	45.7%
Totals	23.8%	41.4%	13.4%	21.4%	100.0%

PC21 16 box FD baseline (2018/19 prices): Expenditure across the PC21 programme £m

	Quality Enhancement	Base Service provision	Enhanced service levels	Supply Demand Balance	Totals
Water Infrastructure	36.12	116.90	36.46	79.98	269.44
Water Non-Infrastructure	22.65	143.21	45.84	21.33	233.03
Sewerage Infrastructure	231.22	115.12	56.92	56.74	459.99
Sewerage Non-Infrastructure	279.36	311.33	64.70	202.12	857.51
Totals	569.35	686.55	203.92	360.16	1819.98

PC21 16 box summary: Baseline expenditure by percentage across the PC21 programme

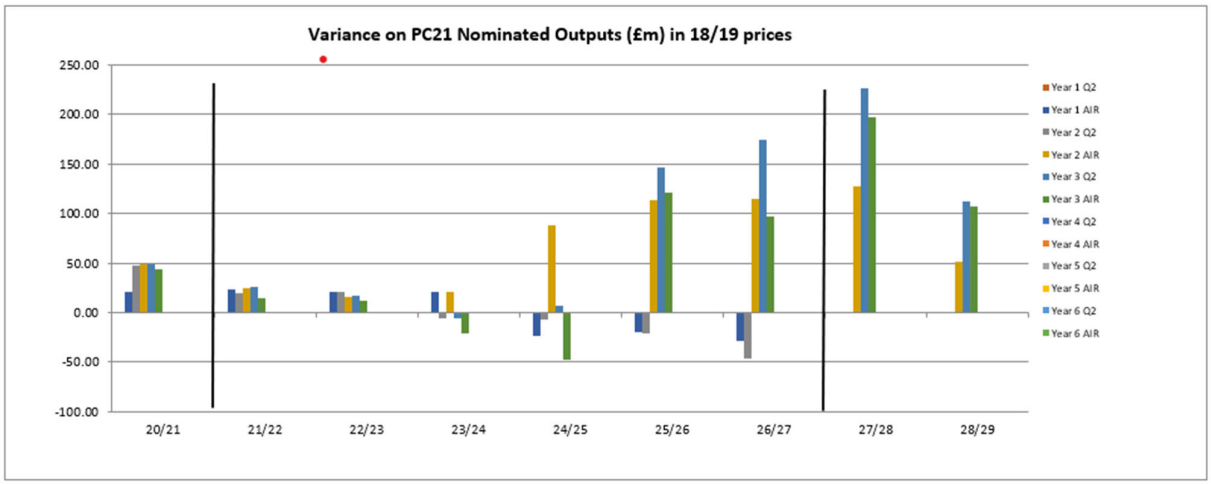
	Quality Enhancement	Base Service provision	Enhanced service levels	Supply Demand Balance	Totals
Water Infrastructure	1.98%	6.42%	2.00%	4.39%	14.80%
Water Non-Infrastructure	1.24%	7.87%	2.52%	1.17%	12.80%
Sewerage Infrastructure	12.70%	6.33%	3.13%	3.12%	25.27%
Sewerage Non-Infrastructure	15.35%	17.11%	3.56%	11.11%	47.12%
Totals	31.28%	37.72%	11.20%	19.79%	

Variance on Nominated Outputs (2018/19 prices)

Figure 1 illustrates the movement in the PC21 Nominated Output projects: this is based on the PC21 FD baseline and assumes a fully funded Final Determination budget. In Year 1, investment on a number of Nominated projects was accelerated with a higher than FD budget available.

The current variance across the period is showing as -£21.49m as a result of funding uncertainty. However, this will be reassessed on an ongoing basis and adjusted as scope certainty is determined on and projects are re-prioritised accordingly.

Figure 1: Variance on Nominated Outputs



CIM summary Table

Code	Title	Baseline £m (2018/19 prices)	Current actual or projected 2023/24 £m (nominal)	Current actual or projected £m (2018/19 prices using latest OBR RPI forecast)
0	Staff Salaries and on-costs	20.40	26.32	19.76
1	Base maintenance (Water)	30.22	11.72	8.80
2	Base maintenance (sewerage)	29.17	38.46	28.87
3	Water resources	4.55	5.06	3.80
4	Water treatment works	8.21	21.63	16.24
5	Water trunk mains	12.55	16.61	12.47
6	Service reservoirs and clear water tanks	0.70	11.03	8.28
7	Service reservoir rehabilitation	4.64	5.04	3.78
8	Water mains rehabilitation	16.56	18.03	13.53
9	Leakage	5.45	5.04	3.78
10	Ops capital Water	8.68	13.09	9.83
12	Sewerage Maintenance, UIDs, Flooding	47.89	47.60	35.74
15	Wastewater treatment (carryover)	0.00	0.00	0.00
16	Wastewater treatment (new starts)	70.60	61.14	45.90
17	Small wastewater treatment works	1.61	2.14	1.60
18	Ops capital Sewerage	11.29	13.91	10.44
19	Meter installation and maintenance	1.97	2.03	1.52
20	Management and general	34.85	29.40	22.07
23	Minor watermain repairs, requisitions, road schemes and public realm	5.63	7.80	5.86
24	Minor sewer repairs, requisitions, road schemes and public realm	5.20	5.36	4.02
97	IFRS Adjustment	-1.15	-1.60	-1.20
98	Additional Outputs Programme	0.00	0.00	0.00
99	PC15 balancing line (Base)	0.00	1.72	1.29
Total	Excluding additional outputs	319.02	341.50	256.38
Total	Including additional outputs	319.02	341.50	256.38

Nominated Outputs

Refer to Table 40a and associated commentary for full detail on nominated outputs over Year 3 of the PC21 period.

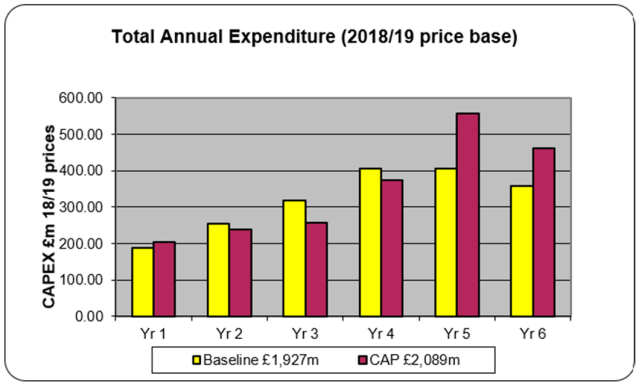
Regulatory Dashboard

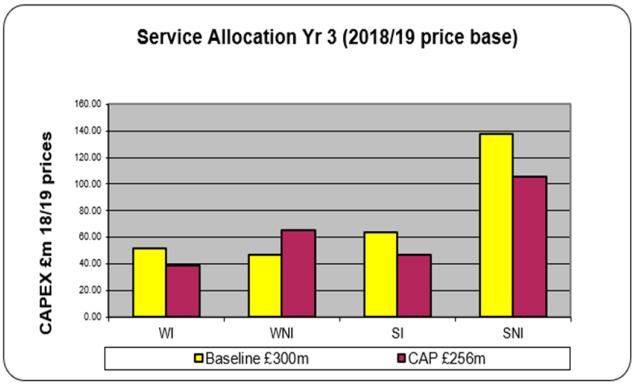
Figure 2 is an extract of the Regulatory Dashboard for period to end of March 2023/24. Only graphs that are currently meaningful have been included. 2018/19 prices are used in the graphs and the following is a summary of the main points to note:

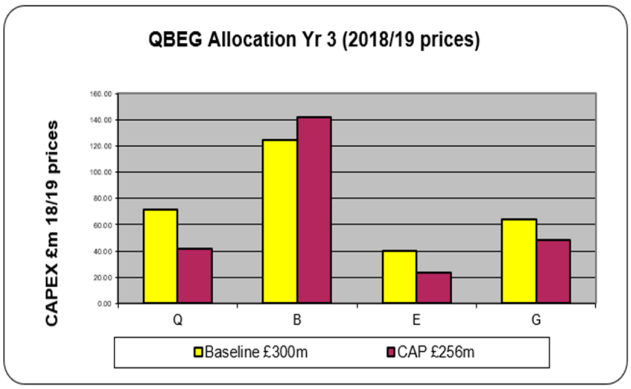
- Graph 1: Total Annual Expenditure. The Graph shows a decrease in 2023/24 in funding available, when the baseline funding and Current Actual Projected are stated in 2018/19 terms.

- Graph 2: Service allocation. Service allocation for 2023/24 shows an element of imbalance between water and wastewater: Water Infrastructure (WI) & Sewerage Infrastructure (SI) are slightly lower than target, Water Non-infrastructure (WNI) is above the baseline profile. Sewerage non-infrastructure (SNI) is below the baseline profile.
- Graph 3: QBEG. 2023/24 indicates £142.57m actual expenditure on base against a £124.44m baseline.

Figure 2: 2022-23 Q4 CIM. RPI as per current actual and NI Water projected







Capital expenditure commentary

This submission is completed primarily using CPMR with full reconciliation completed to ORACLE.

NORTHERN IRELAND WATER LIMITED ANNUAL INFORMATION RETURN

ANNUAL INFORMATION RETURN TABLE 40A CAPITAL INVESTMENT

NOMINATED OUTPUTS DELIVERED BY PC21 CAPITAL PROJECTS AND PROGRAMMES OF WORK

A					B																			C										
Project Information					Project Outputs Baseline																			Project Outputs Current Actual or Projected										
Project ID Reference	Project Name	PC21 Programme	Quality Regulator Date (if appropriate)	BU Date (if appropriate)	PC21 Output Ref Code	Output Units	PC10			PC13		PC15						PC21						LWWP Output (Y/N)	PC15		PC21						PC27				LWWP Output (Y/N)
PI Project ID	PI Project Name	PI PC21 Prog					2010 11	2011 12	2012 13	2013 14	2014 15	2015 16	2016 17	2017 18	2018 19	2019 20	2020 21	2021 22	2022 23	2023 24	2024 25	2025 26	2026 27		2019 20	2020 21	2021 22	2022 23	2023 24	2024 25	2025 26	2026 27	2027 28	2028 29	2029 30	2030 31	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
	Water Treatment Base Maintenance																																				
JA271	Killylane WTW	1		31/12/2014	7	nr					1																										
	Water Treatment Works																																				
JN390	Lough Bradan WTWs Upgrade	4		02/03/2011	7	nr	1																	N													N
JL723	Carmoney Water Treatment Works Upgrade	4		30/03/2011	7	nr	1																	N													N
JP689	Killyhevlin WTW - Enforcement Order	4		31/03/2015	7	nr					1													N													N
JR463	Dorisland WTW GAC plant	4		27/03/2015	7	nr					1													N													N
JI052	Glenhordial Treatability	4		29/01/2016	7	nr						1												N													N
JA319	Dorisland Treatability	4		21/03/2023	7	nr											1							N		0		1									N
JP693	Killyhelvin Treatab ility	4		30/01/2025	7	nr											1							N		0				1							N
JC390	Rath in Island Borehole	4		31/12/2020	7	nr										1									1													
JA341	Ballinrees WTW, MCPA treatment investigations	4		10/01/2025	7	nr											1	0	0	1	0	0	0	N		0				1							
JN538	Derg WTW MCPA PEO Undertakings	4		31/03/2023	7	nr											1									0		1									
JN569	Glenhordial Treatability Improvements	04a		31/12/2024	7	Nr												0	0	0	0	0	1	N			0	0	0	1	0	0					N
JN562	Derg Treatability Improvements	04a		31/03/2023	7	Nr												0	0	0	1	0	0	N			0	1	0	0	0	0					N
JN570	Lough Bradan Treatab ility Improvements	04a		17/03/2027	7	Nr												0	0	0	0	0	1	N			0	0	0	0	0	1	0				N
JN568	Lough Fea Treatab ility Improvements	04a		31/12/2024	7	Nr												0	0	1	0	0	0	N			0	0	0	1	0	0					N
JN483	Glenhordial WTW Sludge Improvements	04a		23/03/2027	7	Nr												0	0	1	0	0	0	N			0	0	0	0	0	1					N
JP703	Belleek Treatability Improvements	04a		31/03/2027	7	Nr												0	0	1	0	0	0	N			0	0	0	0	0	1					N
JF616	Seagahan Treatability Improvements	04a		31/03/2025	7	Nr												0	0	0	0	0	1	N			0	0	0	1	0	0					N
JN567	Loughmacrory Treatability Improvements	04a		25/03/2027	7	Nr												0	0	0	0	0	1	N			0	0	0	0	0	1					N
JN571	Upgrade to Killyhevlin	04a		27/02/2026	7	Nr												0	0	0	0	0	1	N			0	0	0	0	1	0					N
JL814	Carmoney Treatability Improvements	04a		31/05/2023	7	Nr												0	0	0	1	0	0	N			0	0	1	0	0	0					N
JL815	Caugh Hil Treatab ility Improvements	04a		31/01/2029	7	Nr												0	0	0	1	0	0	N			0	0	0	0	0	0	0	1			N
JV903	Carran Hill Treatabil ty Improvements	04a		22/01/2027	7	Nr												0	0	0	1	0	0	N			0	0	0	0	0	1					N
JV902	Fofanny Treatab lity Improvements	04a		29/03/2027	7	Nr												0	0	0	0	0	1	N			0	0	0	0	0	1					N
JI151	NIW Alpha WTWs Treatability Improvements	04a		01/01/2027	7	Nr												0	0	0	0	0	4	N			0	0	0	0	0	4					N
JF617	Clay Lake Treatab lity Improvements	04a		20/05/2027	7	Nr												0	0	0	0	1	0	N			0	0	0	0	0	0	1				N
JN571	Killyhevlin DWW Tank	04a		27/02/2026	7	Nr												0	0	0	0	0	1	N			0	0	0	0	1	0					N
JA331	Dungonnell Treatability Improvements	04a		23/12/2021	7	Nr												1	0	0	0	0	0	N			1	0	0	0	0	0					N
JS328	Drumaroad Treatab ility Improvements	04a		29/09/2023	7	Nr												0	0	1	0	0	0	N			0	0	1	0	0	0					N
JA330	Altnahinch Treatab ility Improvements	04a		25/03/2024	7	Nr												0	0	0	1	0	0	N			0	0	1	0	0	0					N
	Trunk Mains																																				
JR416	CTM Extension - Barnetts Park to Purdysburn	5		29/11/2010	6	nr	1																	N													N
JG036	Castor Bay to Dungannon Strategic Trunk Mains	5		24/05/2011	6	nr	1																	N													N
JG035	Ballydougan to Newry Main Link Reinforcement Phase 1	5		04/12/2012	6	nr			1															N													N
JG035	Ballydougan to Newry TM - Phase 2A	5		17/12/2012	6	nr			1															N													N
JR460	Gravity Il McVeighs Well to Oldpark SR	5		30/11/2014	6	nr					1													N													N
JG035	Ballydougan to Newry TM - Phase 2B	5		31/03/2016	6	nr						1												N													N
JR342	Castor Bay to Belfast TM	5		08/05/2015	6	nr						1												N													N
JB693	Carland to Cookstown Trunkmain	5		31/03/2017	6	nr							1											N													N
JP702	Trunkmain - Killyhevlin Cavanacross B	05a		15/02/2024	6	Nr												0	0	0	1	0	0	N			0	0	1	0	0	0					N
JN573	Edenascp to Kleter SR	05a		24/03/2027	6	Nr												0	0	0	1	0	0	N			0	0	0	0	0	1					N
JG091	Castor Bay Outage September 2019	05b		12/10/2028	6	Nr												0	0	0	0	0	1	N			0	0	0	0	0	0	0	1			N
JN572	Woodend to Drain main	05a		TBC	6	Nr												0	0	0	1	0	0	N			0	0	0	0	0	0					N
JR519	Trunkmain - Wh tespots B	05a		21/10/2022	6	Nr												0	1	0	0	0	0	N			0	1	0	0	0	0					N
JL807	Trunkmain - Crescent Link	05c		09/05/2023	6	Nr												0	0	1	0	0	0	N			0	0	1	0	0	0					N
JL808	Trunkmain - Skeoge Link	05c		31/03/2028	6	Nr												0	0	0	0	1	0	N			0	0	0	0	0	0	1				N
JB743	Trunkmain - High Tober	05a		TBC	6	Nr												0	0	0	0	0	1	N			0	0	0	0	0	0					N
JG087	Castor Bay to Ballydougan Trunk Main September 2019	05a		28/05/2027	6	Nr												0	0	0	1	0	0	N			0	0	0	0	0	0	1				N
JN565	Blacklough to Crocknabohill SR	05a		17/05/2027	6	Nr												0	0	0	0	0	1	N			0	0	0	0	0	0	1				N
JB739	Central WRZ Resilience and Supply	05b		05/03/2027	6	Nr												0	0	0	0	1	0	N			0	0	0	0	0	1					N
JN563	Western Resource Zone - Resilience	05b		04/04/2025	6	Nr												0	0	0	1	0	0	N			0	0	0	0	1	0					N
JL790	Northern WRZ Resilience	05b		25/01/2022	6	Nr											1	0	1	0	0	0	0	N		1	1	0	0	0	0	0					N
JL715	Caugh Hil Carmoney to Strabane Strategic Link Watermain	05a		26/12/2028	6	Nr												0	0	0	0	0	1	N			0	0	0	0	0	0	0	1			N
JI212	Beltoy and Unagh Drought Alleviation Pumping Stations	05a		27/03/2024																										1							N
	Service Reservoirs & Clear Water Tanks																																				
JB665	Tullaghans SR, Dunloy, New Reservoir	6		13/08/2010	8	nr	1																	N													N
JC381	Altnahinch WTP, Ballymoney, New CWB.	6		10/11/2010	8	nr	1																	N													N
JC378	Glenlough SR Ballymoney New SR	6		20/12/2010	8	nr	1																	N													N
JR151	West Belfast/ North Lisburn (Crew H Il)	6		18/01/2011	8	nr	1																	N													N
JB648	Dungonnell Command Service Reservoir	6		31/03/2011	8	nr	1																	N													N
JF583	Carland Service Reservoir	6		11/04/2011	8	nr		1																N													N
JS179	Ballykine Gravity Distribution	6		20/04/2011	8	nr		1																N													N
JV827	Tullyhappy SR	6		09/12/2011	8	nr		1																N													N
JB649	Tully SR	6		06/12/2012	8	nr			1															N													N
JV830	Crieve SR	6		27/03/2015	8	nr					1													N													N
JP631	Killyhelvin Clear Water Tank	6		31/05/2020	8	nr											1							N		1											N
JB709	Lough Fea CWB	6		31/03/2020	8	nr										1								N	1												N
JC385	Monaclogh SR	6		01/08/2017	8	nr								1										N													N
JN564	SR - Loughmacrory Hill	06z		01/03/2029	8	Nr												0	0	0	0	1	0	N			0	0	0	0	0	0	0	1			N
JS308	CWT - Fofanny	06z		05/10/2023	8	Nr												0	0	0	0	0	0	N			0	0	1	0	0	0					N
JF615	CWT - Seagahan	06z		06/03/2024	8	Nr												0	0	0	0	1	0	N			0	0	1	0	0	0					N
JS274	Drumaroad WTW Clear Water Tank	06z		17/06/2021	8	Nr											0	1	0	0	0	0	0	N		0	1	0	0	0	0	0					N
	Unsatisfactory Intermittent Discharges																																				
KA247	UID387 Crumlin Town WWPS Upgrade	12		01/03/2020	12	nr										1								N	1												N
KA248	UID190 Brustin Lee WWPS	12		30/03/2015	12	nr					1													N													N
KA248	UID319 Croft Manor WWPS	12		30/03/2015	12	nr					1													N													N
KA248	UID320 Ballygalley Slipway WWPS	12		30/03/2015	12	nr					1													N													N
KA248	UID321 Ballygalley North WWPS	12		30/03/2015	12	nr					1													N													N
KA248	UID322 Ballygalley Coast Road CSO	12		30/03/2015	12	nr					1													N													N
KA251	UID394 Clotworthy House CSO	12		22/01/2014	12	nr				1														N													N
KA252	UID398 Glynn WWPS	12		19/02/2015	12	nr					1													N													N
KA260	UID389 Muckamore WwPS	12		04/04/2017	12	nr								1										N													N
KA261	UID388 Milltown Road WWPS Upgrade	12		21/03/2017	12	nr							1											N													N
KA262	UID391 Islandreagh WWPS Upgrade	12		30/03/2019	12	nr											1							N		1											N
KB486	UID399 Galgorm Raphael WWPS	12		20/03/2018	12	nr									1									N													N
KC415	UID043 Screen Road CSO	12		30/03/2015	12	nr					1	0												N													N
KC415	UID040 Ballysally CSO	12		31/03/2018	12	nr								1										N													N
KF037	UID245 Annagher SPS	12		28/03/2014	12	nr				1														N													N
KF037	UID246 Campbells Garage WwPS CSO	12		28/03/2014	12	nr				1														N													N
KF037	UID247 Washing bay Road WwPS CSO	12		28/03/2014	12	nr				1														N													N
KF330	UID001 Scotch Street CSO. 2	12		25/03/2016	12	nr						1												N													N
KF330	UID002 Scotch Street. CSO 1	12		25/03/2016	12	nr						1												N													N
KF330	UID003 Courthouse 1 CSO	12		30/11/2015	12	nr						1												N													N
KF330	UID005 The Mall East CSO	12		14/10/2016	12	nr							1											N													N
KF330	UID006 English St CSO. Scheme 2	12		21/01/2017	12	nr							1											N													N
KF330	UID007 Drumcairn SPS. Scheme 3	12		30/03/2015	12	nr					1													N													N
KF330	UID431 Ballycrummy WWPS	12		30/03/2015	12	nr					1													N													N
KF330	UID430 Longstone WWPS	12		30/03/2015	12	nr					1													N													N
KF330	UID010 Newry Road SPS	12		28/04/2017	12	nr								1										N													N
KF330	UID173 Mall West CSO	12		23/03/2016	12	nr						1												N													N
KF330	UID175 Alexander Road CSO	12		13/11/2015	12	nr						1												N													N
KF330	UID176 Gillis Lane CSO	12		30/03/2015	12	nr					1													N													N
KF354	UID416 Dernagh WWPS	12		01/09/2014	12	nr					1													N													N
KF360	UID418 Blackwatertown WWPS	12		31/03/2014	12	nr				1														N													N
KI488	UID400 Braeside WWPS	12		01/08/2013	12	nr				1														N													N
KI488	UID401 Cloughy Road WWPS	12		01/09/2013	12	nr				1														N													N
KI488	UID402 Old Mill Race WWPS	12		01/08/2013	12	nr				1														N													N
KI488	UID403 Glen Park WWPS	12		01/09/2013	12	nr				1														N													N
KI488	UID404 Kerries Glen	12		01/01/2014	12	nr				1														N													N
KI488	UID405 Carnesure Terrace WWPS	12		01/04/2014	12	nr					1													N													N
KI488	UID406 Hillside WWPS	12		01/10/2013	12	nr				1														N													N
KI488	UID407 Chimera Wood WWPS	12		01/12/2013	12	nr				1														N													N
KI488	UID408 Ballystockart WWPS	12		01/11/2014	12	nr					1													N													N
KI488	UID409 Milltown WWPS	12		01/10/2014	12	nr					1													N													N
KI488	UID419 Ratalla WWPS	12		01/04/2013	12	nr				1														N													N
KL468	UID114 Caw Park CSO 023	12		21/03/2016	12	nr						1												N													N
KL468	UID380 Gransha Park WwPS No. 2	12		22/03/2016	12	nr						1												N													N
KL504	UID273 Knockalla New WWPS	12		13/09/2016	12	nr							1											N													N
KL504	UID274 Upper Gallagh Road WWPS	12		31/03/2016	12	nr						1												N													N
KL504	UID275 Glen Road CSO	12		24/04/2015	12	nr						1												N													N
KL504	UID433 Fairview Knockalla CSO	12		21/03/2016	12	nr						1												N													N
KL524	UID420 Bleachgreen WWPS	12		60/06/2017	12	nr								1										N													N
KL527	UID432 Manorwood WWPS	12		01/12/2016	12	nr							1											N													N
KN628	UID427 Carrickmore WWPS	12		27/08/2014	12	nr					1													N													N

A					B																					C												
Project Information					Project Outputs Baseline																					Project Outputs Current Actual or Projected												
Project ID Reference	Project Name	PC21 Programme	Quality Regulator Date (if appropriate)	BU Date (if appropriate)	PC21 Output Ref Code	Output Units	PC10			PC13		PC15						PC21							LWWP Output (Y/N)	PC15		PC21						PC27				LWWP Output (Y/N)
PI Project ID	PI Project Name	PI PC21 Prog					2010 11	2011 12	2012 13	2013 14	2014 15	2015 16	2016 17	2017 18	2018 19	2019 20	2020 21	2021 22	2022 23	2023 24	2024 25	2025 26	2026 27		2019 20	2020 21	2021 22	2022 23	2023 24	2024 25	2025 26	2026 27	2027 28	2028 29	2029 30	2030 31	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
KN644	UID417 Greenbridge WWPS	12		14/11/2013	12	nr				1														N													N
KR417	UID191 Cromac Street CSO 95	12		31/03/2020	12	nr									1									N													N
KR417	UID192 Outside Holiday Inn CSO97	12		31/03/2020	12	nr									1									N													N
KR417	UID193 Dublin Road Cinema CSO 96	12		31/03/2020	12	nr									1									N													N
KR417	UID194 Bankmore Street / Dublin Road CSO 81	12		31/03/2020	12	nr									1									N													N
KR417	UID265 Sandy Row CSO 94	12		31/03/2020	12	nr									1									N													N
KR480	UID218 Palace Barracks CSO 110	12		07/09/2016	12	nr							1											N													N
KR480	UID219 Jackson Road CSO 52	12		06/10/2014	12	nr					1													N													N
KR501	UID272 Carrickfergus CSO	12		19/03/2015	12	nr					1													N													N
KR504	UID351 Portaferry Road WWPS	12		31/03/2020	12	nr										1								N	1												N
KR640	UID220 Strathearn Court CSO 53	12		20/12/2016	12	nr							1											N													N
KS372	UID044 Market Street SPS Upgrade, Downpatrick - UID's	12		18/02/2016	12	nr						1												N													N
KS373	UID046 Meadowlands CSO3	12		06/05/2013	12	nr				1														N													N
KS373	UID047 Church Street CSO1	12		06/05/2013	12	nr				1														N													N
KS373	UID048 Scotch Street CSO4	12		06/05/2013	12	nr				1														N													N
KS373	UID049 Scotch Street CSO11	12		06/05/2013	12	nr				1														N													N
KS373	UID050 Rathke tair Terr CSO12	12		06/05/2013	12	nr				1														N													N
KS374	UID045 Downpatrick - Stream St CSO	12		19/02/2015	12	nr					1													N													N
KS374	UID124 Hunters Mill Attenua ion Stream Street CSO2	12		19/02/2015	12	nr					1													N													N
KS848	UID 260 Harbour WwPS	12		09/12/2013	12	nr				1														N													N
KS867	UID343 Copeland Road CSO 61	12		30/10/2014	12	nr					1													N													N
KS875	UID189 Bangor DAP Works Package 6 Lukes Point WWPS UIDs	12		30/09/2014	12	nr					1													N													N
KS877	UID023 Castle Park CSO 07	12		31/03/2018	12	nr								1										N													N
KS877	UID179 13 Rugby Avenue CS0 8A	12		31/03/2018	12	nr								1										N													N
KS877	UID180 11 Brunswick Road CSO 8B	12		31/03/2018	12	nr								1										N													N
KS877	UID181 104 Abbey Street CSO 8F	12		31/03/2018	12	nr								1										N													N
KS877	UID182 114 Abbey Street CSO 8E	12		31/03/2018	12	nr								1										N													N
KS877	UID183 Railway View Street CSO 8G (not required)	12		31/03/2018	12	nr								x										N													N
KS877	UID184 Abbey Park CSO 9	12		31/03/2018	12	nr								1										N													N
KS877	UID263 57 Belfast Road CSO 8C	12		21/03/2017	12	nr							1											N													N
KS877	UID264 17 Belfast CSO 8D	12		21/03/2017	12	nr							1											N													N
KS879	UID018 Somerset Ave. CSO 11	12		27/08/2014	12	nr					1													N													N
KS879	UID019 Bridge St CSO 13	12		27/08/2014	12	nr					1													N													N
KS879	UID020 Quay St CSO 14	12		27/08/2014	12	nr					1													N													N
KS879	UID021 Tennyson CSO 10	12		27/08/2014	12	nr					1													N													N
KS879	UID022 Queens parade CSO 12	12		27/08/2014	12	nr					1													N													N
KS900	UID410 Glencraig WWPS	12		01/05/2014	12	nr					1													N													N
KS903	UID266 Halfway House CSO	12		21/03/2016	12	nr						1												N													N
KS903	UID267 Marine Park CSO	12		21/03/2016	12	nr						1												N													N
KS930	UID076 Millis e SPS CSO 02	12		12/12/2018	12	nr											1							N		1											N
KS937	UID032 Annesborough Park WwPS	12		30/06/2016	12	nr							1											N													N
KS939	UID259 Pattons Bridge (Blackrock WwPS	12		24/03/2016	12	nr						1												N													N
KS958	UID185 Avonlea Park CSO 6	12		30/03/2016	12	nr						1												N													N
KS958	UID186 Rosemary Crescent / Inglewood Pk CSO 5	12		30/03/2016	12	nr						1												N													N
KS958	UID187 Clandeboye Road CSO 5B	12		30/03/2016	12	nr						1												N													N
KT114	UID071 Magharegery PS CSO 18	12		18/03/2014	12	nr				1														N													N
KT139	UID276 River Road WWPS	12		09/04/2014	12	nr					1													N													N
KT391	UID066 Waterside 2 CSO 07	12		12/03/2015	12	nr					1													N													N
KT391	UID067 B Hilden PS CSO 13B	12		30/03/2015	12	nr					1													N													N
KT391	UID068 Hilden PS CSO 13A	12		15/10/2015	12	nr						1												N													N
KT391	UID069 Antrim St CSO 25	12		22/08/2016	12	nr							1											N													N
KT391	UID074 Laws Yard CSO 14	12		30/10/2015	12	nr						1												N													N
KT391	UID221 Waterside 1 CSO 01	12		12/03/2015	12	nr					1													N													N
KT391	UID222 Linenhall Street CSO 03	12		30/03/2015	12	nr					1	0												N													N
KT391	UID223 Antrim Street CSO 05	12		30/06/2019	12	nr									1									N													N
KT391	UID224 Clonevin Park CSO 10	12		09/09/2015	12	nr						1												N													N
KT391	UID225 Sprucefield WWPS Screen CSO 20	12		30/03/2015	12	nr					1													N													N
KT391	UID226 Antrim Road CSO 24 + flooding	12		30/10/2015	12	nr						1												N													N
KT391	UID227 Bow Street CSO 26	12		22/03/2016	12	nr						1												N													N
KT391	UID228 Bal ynahinch Rd 2 CSO 27	12		18/03/2015	12	nr					1													N													N
KT391	UID229 Grand Street Screen CSO 28	12		20/11/2015	12	nr						1												N													N
KT391	UID423 Eglantine WWPS CSO 16	12		30/03/2015	12	nr					1													N													N
KT391	UID424 Culcavy WWPS CSO 17	12		30/03/2015	12	nr					1													N													N
KT391	UID425 Bal inderry WWPS CSO 23	12		30/03/2015	12	nr					1													N													N
KT391	UID421 Edgewater WWPS	12		04/09/2015	12	nr						1												N													N
KT391	UID422 Hoggs Weir CSO 04	12		30/10/2015	12	nr						1												N													N
KT403	UID070 Maralin Ave CSO 02	12		30/09/2014	12	nr					1													N													N
KT415	UID065 Glenmore SPS CSO 22	12		25/06/2013	12	nr				1														N													N
KV154	UID095 Newry Road TPS CSO	12		14/01/2014	12	nr				1														N													N
KV154	UID234 Drumsesk Road Header Tank CSO	12		14/01/2014	12	nr				1														N													N
KV161	UID033 Mill Hill CSO 04	12		31/03/2014	12	nr				1														N													N
KV161	UID031 Ballylough CSO 04	12		31/03/2014	12	nr				1														N													N
KV161	UID036 Annesborough Park CSO 01	12		31/03/2014	12	nr				1														N													N
KA201	Ballyeaston, Sewerage System Upgrade	12		23/04/2012	12	nr		1																N													N
KA247	Crumlin Town WWPS Upgrade	12			12	nr																		N													N
KA248	Ballygally Sewer Rehabilita ion	12			12	nr																		N													N
KA251	Umry Lodge CSO	12			12	nr																		N													N
KA252	Glynn WWPS	12			12	nr																		N													N
KA260	Muckamore WWPS Upgrade	12			12	nr																		N													N
KA261	Milltown Road WWPS Upgrade	12			12	nr																		N													N
KA262	Islandreagh WWPS Upgrade	12			12	nr																		N													N
KA263	Dunadry WWPS Upgrade	12		27/06/2025	12	nr												1						N			0		0		1						N
KB428	Draperstown DAP	12		02/07/2010	12	nr	2																	N													N
KB486	Galgorm WWPS Upgrade	12			12	nr																		N													N
KC404	Coleraine DAP Phase 1 - UID s	12		31/01/2012	12	nr		5																N													N
KG415	Coleraine	12			12	nr																		N													N
KF037	Annagher Sewage Pumping Station and Rising Main - U D's	12			12	nr																		N													N
KF330	Armagh DAP Stage 1 - UID's	12			12	nr																		N													N
KF354	Dermagh WWPS Upgrade	12			12	nr																		N													N
KF360	Blackwater Town WWPS Upgrade	12			12	nr																		N													N
KF396	UID008 Milford SPS	12		04/08/2017	12	nr								1										N													N
KF397	UID009 Ki lylea SPS	12		31/03/2020	12	nr										1								N	1												N
KG153	Gilford Road, Portadown, Sewerage Upgrades	12		10/08/2010	12	nr	3																	N													N
KG178	Annaghanoon Road WWPS, Waringstown	12		05/09/2011	12	nr			1															N													N
KG184	Portadown Drainage Area Network Improvements - Obins Street and Park Road - UID s	12		31/08/2012	12	nr			4															N													N
KI488	Removal of Inlet Screens and Installation of Solid Handling Pumps	12			12	nr																		N													N
KL428	Londonderry Sewer Imps Stage 2 - Duke St PS Group Schemes - UID's	12		28/03/2011	12	nr	3																	N													N
KL443	Londonderry DAP Duke Street Work Package - U D's	12		02/12/2011	12	nr		4																N													N
KL444	Londonderry DAP, Buncrana Road, Work Package Stage 1- UID's	12		07/05/2012	12	nr			2															N													N
KL445	Londonderry DAP Victoria road Work Package - U D s	12		11/10/2010	12	nr	1		1															N													N
KL446	Londonderry DAP, Duke Street Work Package, Flood Alleviation	12		13/12/2011	12	nr		3																N													N
KL447	Londonderry DAP Foyle Road Work Package CSO Rationalisation - UID's	12		24/09/2012	12	nr			10															N													N
KL448	Londonderry DAP Victoria Road Work Package CSO Rationalisa ion	12		29/10/2010	12	nr	3																	N													N
KL449	Londonderry DAP Strathfoyle & Drmahoe Work Package Drumahoe Old WWPS	12		02/09/2010	12	nr	1																	N													N
KL450	Londonderry DAP Strathfoyle & Drmahoe Work Package Caw WWPS	12		01/07/2010	12	nr	1																	N													N
KL451	Londonderry DAP, Strathfoyle + Drumahoe Package CSO Abandonments - UID's	12		24/09/2012	12	nr			3															N													N
KL468	Strathfoyle, Londonderry Syphon Inlet Screen	12			12	nr																		N													N
KL504	Londonderry DAP Buncrana Road Work Package, Stage 2	12			12	nr																		N													N
KL524	Bleachgreen WWPS, Londonderry, Upgrade/Replacement	12			12	nr																		N													N
KL527	Manorwood WWPS Replacement	12			12	nr																		N													N
KN595	Brookmount Road, Hunters Cresent, Omagh	12		31/05/2011	12	nr			5															N													N
KN628	Carrickmore WWPS Upgrade	12			12	nr																		N													N
KN644	Greenbridge WWPS Upgrade	12			12	nr																		N													N
KN646	Winters Lane, CSO Upgrade - UID	12		27/03/2013	12	nr			1															N													N
KR400	Lukes Point DAP Phase 1	12		23/06/2010	12	nr	1																	N													N
KR402	Joymount WWPS	12		01/06/2010	12	nr	1																	N													N
KR403	Whitehouse DAP Phase 1	12		13/04/2010	12	nr	3																	N													N
KR417	Ormeau Avenue Sewer inves igation and feas bility study for pollution resolution - UID's	12			12	nr																		N													N
KR432	Beechmount Avenue/Gortfin Street Belfast Hydraulic Upgrade, - UID's	12		02/12/2011	12	nr		4																N													N
KR434	Annadale Flats, Belast	12		30/03/2012	12	nr		4																N													N
KR439	Millisle DAP 1	12		29/11/2012	12	nr			1															N													N
KR440	Ballywalter DAP Phase 1	12		30/09/2010	12	nr	1																	N													N
KR441	Montgomery Rd, Flood Alleviation - U D's	12		27/04/2012	12	nr		4																N													N
KR452	Baroda Street/Ormeau Park, Belfast CSO	12		07/09/2011	12	nr		2																N													N
KR480	Holywood Sewer Catchment Investigations - U Ds	12			12	nr																		N													N
KR488	Linen Gardens Belfast CSO Screening - UID's	12		01/01/2014	12	nr				1														N													N
KR501	Carrickfergus WWTW Upgrade	12			12	nr																		N													N
KR504	Portaferry Road, N,Ards WWPS Upgrade	12			12	nr																		N													N
KR640	Holywood Sewer Network Improvements- Phase 2	12			12	nr																		N													N
KS372	Market Street SPS Upgrade, Downpatrick - UID's	12			12	nr																		N													N
KS373	Church Street, SPS Upgrade, Downpatrick - UID's	12		06/05/2013	12	nr																		N													N
KS374	Hunter's Mi l Storm Attenuation and Network Improvements	12			12	nr																		N													N
KS377	Downs Road/Castle Park Sewer Upgrade/ Attenuation - UID's	12		23/01/2012	12	nr		4																N													N
KS379	Murlough SPS Upgrade & Network Improvements - UID's	12		29/04/2011	12	nr		8	1															N													N

A					B																					C															
Project Information					Project Outputs Baseline																					Project Outputs Current Actual or Projected															
Project ID Reference	Project Name	PC21 Programme	Quality Regulator Date (if appropriate)	BU Date (if appropriate)	PC21 Output Ref Code	Output Units	PC10			PC13		PC15							PC21						LWWP Output (Y/N)	PC15		PC21						PC27				LWWP Output (Y/N)
PI Project ID	PI Project Name	PI PC21 Prog					2010 11	2011 12	2012 13	2013 14	2014 15	2015 16	2016 17	2017 18	2018 19	2019 20	2020 21	2021 22	2022 23	2023 24	2024 25	2025 26	2026 27		2019 20	2020 21	2021 22	2022 23	2023 24	2024 25	2025 26	2026 27	2027 28	2028 29	2029 30	2030 31	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
KS807	Kilkeel Harbour SPS and Sewerage Improvements - UID's	12		04/06/2012	12	nr			2															N													N
KS812	Greyabbey DAP Phase 1 - UID's	12		24/09/2012	12	nr			2															N													N
KS835	South Street Newtownards WWPS Refurbishment - U D'S	12		28/01/2013	12	nr			1															N													N
KS848	Newcastle WwTW	12			12	nr																		N													N
KS867	Copeland Road, Comber, Tank Sewer	12			12	nr																		N													N
KS875	Bangor DAP Works Package 6 Lukes Point WWPS UIDs	12			12	nr																		N													N
KS877	Bangor DAP Works Package 5 - Clandeboye Stream UIDs	12			12	nr																		N													N
KS878	Bangor DAP Work Package 7 WWPS - UID S	12		28/03/2012	12	nr		3																N													N
KS879	Bangor DAP Work Package 4 Bangor Marina UIDs	12			12	nr																		N													N
KS900	WwPS Upgrades at Groomsport, Ki linchy & Craigavad	12			12	nr																		N													N
KS903	Annalong DAP	12		02/09/2025	12	nr																		N						0	1						N
KS930	Millisle DAP Stage 2 Phase 2	12			12	nr																		N													N
KS937	Annesborough Park WWPS Upgrade	12			12	nr																		N													N
KS939	Central Promenade, Newcastle CSO Upgrade (Pa tons Bridge)	12			12	nr																		N													N
KS958	Bangor DAP Works Package 5 Clandeboye Stream UIDs Phase 2	12			12	nr																		N													N
KT114	Hillsborough WWTW	12			12	nr																		N													N
KT138	Beechlawn SPS H llsborough Upgrade - U D's	12		30/11/2011	12	nr		1																N													N
KT139	River Road SPS Upgrade	12			12	nr																		N													N
KT391	Lisburn DAP Stage 1 - UID's	12			12	nr																		N													N
KT403	Drumbeg Drive, Lisburn WWPS Enhancement	12			12	nr																		N													N
KT415	Glenmore WwPS Lisburn CSO upgrade	12			12	nr																		N													N
KV014	Castlewellan DAP - U Ds	12		19/08/2010	12	nr			2															N													N
KV063	Newry Rehab	12		05/09/2011	12	nr			1															N													N
KV154	Newry Road SPS Warrenpoint - U D's	12			12	nr																		N													N
KV159	Water Street/Horners Lane Rostrevor	12		24/06/2011	12	nr			1															N													N
KV161	Castlewellan DAP Stage 1 - UIDs	12			12	nr																		N													N
KV249	Annsborough DA UID-M ll Hill Castlewellan WwPS	12b		20/08/2026	12	Nr												0	0	0	1	0	0	N			0	0	0	0	0	1						N
KA234	Antrim DA Glenavy Road Crumlin WwPS	12b		01/04/2024	12	Nr												0	0	0	1	0	0	N			0	0	0	1	0	0						N
KF428	Armagh DA - Storm Tanks	12b		25/12/2026	12	Nr												0	0	0	0	0	1	N			0	0	0	0	0	1						N
KB564	Ballymena DA - Dunfane Crescent	12b		30/04/2026	12	Nr												0	0	0	0	0	1	N			0	0	0	0	0	1						N
KB564	Ballymena DA - Harryville Bridge CSO	12b		30/04/2026	12	Nr												0	0	0	0	1	0	N			0	0	0	0	0	1						N
KB555	Ballymena DAP - Deramore Park CSO	12b		N/A	12	Nr												0	0	0	0	0	1	N			0	0	0	0	0	0						N
KB563	Ballymena DAP - Knockan Road CSO	12b		N/A	12	Nr												0	0	0	0	0	1	N			0	0	0	0	0	0						N
KB564	Ballymena DAP - N100010347	12b		30/04/2026	12	Nr												0	0	0	0	1	0	N			0	0	0	0	0	1						N
KB559	Ballymena DAP - Spencetown TPS	12b		TBC	12	Nr												0	0	0	0	1	0	N			0	0	0	0	0	0						N
KB563	Ballymena DAP - The Pentagon CSO	12b		N/A	12	Nr												0	0	0	0	1	0	N			0	0	0	0	0	0						N
KB563	Ballymena DAP - Waveney Road Yard CSO	12b		TBC	12	Nr												0	0	0	0	0	1	N			0	0	0	0	0	0						N
KB563	Ballymena DAP- Albert Place CSO	12b		TBC	12	Nr												0	0	0	0	1	0	N			0	0	0	0	0	0						N
KH010	Ballynahinch DA - Loughside Drive WwPS	12b		01/06/2027	12	Nr												0	0	0	0	1	0	N			0	0	0	0	0	0	1					N
KH010	Ballynahinch DA UID-Town CSO	12b		01/06/2027	12	Nr												0	0	0	1	0	0	N			0	0	0	0	0	0	1					N
KS999	Ballyrickard DA Upper Crescent Comber WwPS	12b		17/06/2025	12	Nr												0	4	0	0	0	0	N			0	0	0	0	4	0						N
KR753	Ballywalter DA UID-Ballywalter Fowler 1 CSO	12b		30/06/2028	12	Nr												0	0	0	1	0	0	N			0	0	0	0	0	0	0	1				N
KA298	Blackcave DA - Solution 1 - Ballygalley Coast Road CSO	12b		13/02/2025	12	Nr												0	0	0	0	1	0	N			0	0	0	1	0	0						N
KA298	Blackcave DA - Solution 1 - Ballygalley Slipway WwPS CSO	12b		13/02/2025	12	Nr												0	0	0	0	1	0	N			0	0	0	1	0	0						N
KA298	Blackcave DA - Solution 2 - Blackarch East CSO	12b		13/02/2025	12	Nr												0	0	0	0	1	0	N			0	0	0	1	0	0						N
KN687	Cookstown DA - Blackhill CSO	12b		28/09/2029	12	Nr												0	0	0	0	0	1	N			0	0	0	0	0	0	0	0	1	0		N
KN687	Cookstown DA - Burn Bank CSO	12b		28/09/2029	12	Nr												0	0	0	0	0	0	N			0	0	0	0	0	0	0	0	1	0		N
KN688	Cookstown DA - Castle Road CSO	12b		28/05/2027	12	Nr												0	0	0	0	0	1	N			0	0	0	0	0	0	1					N
KN687	Cookstown DA - Coolreaghs Road CSO	12b		28/09/2029	12	Nr												0	0	0	0	1	0	N			0	0	0	0	1	0						N
KN688	Cookstown DA - Derryloran Industrial Estate One WwPS	12b		12/04/2023	12	Nr												0	0	0	0	0	1	N			0	0	1	0	0	0						N
KN688	Cookstown DA - Loran Way CSO	12b		28/05/2027	12	Nr												0	0	0	0	0	1	N			0	0	0	0	0	0	1					N
KN688	Cookstown DA - Orritor Road CSO	12b		28/05/2027	12	Nr												0	0	0	0	0	1	N			0	0	0	0	0	0	1					N
KN688	Cookstown DA - Unipork Molesworth Street CSO	12b		28/05/2027	12	Nr												0	0	0	0	0	1	N			0	0	0	0	0	0	1					N
KL480	Culmore DA - Faughan Crescent WwPS	12b		25/09/2025	12	Nr												0	0	1	0	0	0	N			0	0	0	0	1	0						N
KH005	Downpatrick DAP - Ardenlee PS	12b		16/06/2027	12	Nr												0	0	0	0	1	0	N			0	0	0	0	0	0	1					N
KH005	Downpatrick DAP - Ardfern PS	12b		16/06/2027	12	Nr												0	0	0	0	1	0	N			0	0	0	0	0	0	1					N
KH005	Downpatrick DAP - Down Counc l Strangford Road CSO	12b		16/06/2027	12	Nr												0	0	0	0	1	0	N			0	0	0	0	0	0	1					N
KH005	Downpatrick DAP - Strangford Road PS	12b		16/06/2027	12	Nr												0	0	0	0	1	0	N			0	0	0	0	0	0	1					N
KT442	Dromore DAP- Dromore Central PS10 WwPS	12b		07/03/2028	12	Nr												0	0	0	0	0	0	N			0	0	0	0	0	0	1					N
KT442	Dromore DAP- Dromore Central WwPS	12b		07/03/2028	12	Nr												0	0	0	0	0	0	N			0	0	0	0	0	0	1					N
KT442	Dromore DAP- Invert Siphon CSO	12b		07/03/2028	12	Nr												0	0	0	0	0	1	N			0	0	0	0	0	0	1					N
KT442	Dromore DAP- Lower Mount CSO	12b		07/03/2028	12	Nr												0	0	0	0	0	0	N			0	0	0	0	0	0	1					N
KT442	Dromore DAP- PS14 at Invert Siphon Site	12b		07/03/2028	12	Nr												0	0	0	0	0	0	N			0	0	0	0	0	0	1					N
KF429	Dungannon DA - Woodlawn Park CSO	12b		31/03/2027	12	Nr												0	0	0	1	0	0	N			0	0	0	0	0	1						N
KF429	Dungannon DAP - Coolhill North WWPS	12b		31/03/2027	12	Nr												0	0	0	0	0	1	N			0	0	0	0	0	1						N
KP696	Enniskillen DA - Derrychara Link CSO	12b		10/06/2030	12	Nr												0	0	0	1	0	0	N			0	0	0	0	0	0	0	0	1	0	1	N
KP696	Enniskillen DA - Loughview Drive CSO	12b		10/06/2030	12	Nr												0	0	0	1	0	0	N			0	0	0	0	0	0	0	0	1	0	1	N
KP696	Enniskillen DA - Rossory One WwPS	12b		10/06/2030	12	Nr												0	1	0	0	0	0	N			0	0	0	0	0	0	0	0	1	0	1	N
KP696	Enniskillen DA-Riverview Enniskillen WwPS	12b		10/06/2030	12	Nr												0	0	0	1	0	0	N			0	0	0	0	0	0	0	0	1	0	1	N
KS991	Kilkeel DA - Derryogue Park CSO	12b		31/03/2026	12	Nr												0	0	0	0	1	0	N			0	0	0	0	1	0						N
KS991	Kilkeel DA - Kilkeel WwTW Stormtanks	12b		31/03/2026	12	Nr												0	0	0	0	1	0	N			0	0	0	0	1	0						N
KS991	Kilkeel DA - Mil tary Rd WWPS, Corick Way and Kittys Rd CSO	12b		31/03/2026	12	Nr												0	0	0	0	3	0	N			0	0	0	0	3	0						N
KS991	Kilkeel DA - Rooney Road CSO Uncharted	12b		31/03/2026	12	Nr												0	0	0	0	1	0	N			0	0	0	0	1	0						N
KH008	Killinchy DA - Inishargan PS	12b		04/01/2027	12	Nr												0	0	0	0	0	1	N			0	0	0	0	0	1						N
KR667	Kircubbin DA Cooks Cove WwPS	12b		28/10/2021	12	Nr												0	1	0	0	0	0	N			1	0	0	0	0	0						N
KL543	Limavady DA - Bovally WwPS	12b		29/04/2024	12	Nr												0	0	1	0	0	0	N			0	0	0	1	0	0						N
KL543	Limavady DA UID-Ballyclose Street CSO	12b		29/04/2024	12	Nr												0	0	1	0	0	0	N			0	0	0	1	0	0						N
KC496	Maghera DA UID-Largantogher Park CSO	12b		13/03/2029	12	Nr												0	0	1	0	0	0	N			0	0	0	0	0	0	0	1				N
KL572	Magherafelt DAP - Hospital Road East WwPS (ballyheafer)	12b		26/02/2027	12	Nr												0	0	0	0	0	1	N			0	0	0	0	0	1						N
KL572	Magherafelt DAP Mill View PS	12b		26/02/2027	12	Nr												0	0	0	0	0	1	N			0	0	0	0	0	1						N
KV248	Newry DA Newpoint Greenbank TPS	12b		03/06/2030	12	Nr												0	0	0	0	0	1	N			0	0	0	0	0	0	0	0	1	0	1	N
KV248	Newry DA Warrenpoint Rd Two WwPS	12b		03/06/2030	12	Nr												0	0	0	0	1	0	N			0	0	0	0	0	0	0	0	1	0	1	N
KR785	Newtownbreda DA - Option B - Mill Road West CSO	12b		27/11/2026	12	Nr												0	0	0	1	0	0	N			0	0	0	0	0	1						N
KR737	Newtownbreda DA- Option B Knockbreckan CSO	12b		20/08/2025	12	Nr												0	0	0	1	0	0	N			0	0	0	0	1	0						N
KC493	North Coast DA Ballycairn CSO CAI Playing Fields KC467	12b		31/07/2024	12	Nr												0	0	0	1	0	0	N			0	0	0	1	0	0						N
KC440	North Coast DA Strand Road WwPS	12b		30/09/2027	12	Nr												0	1	0	0	0	0	N			0	0	0	0	0	2						N
KS873	North Down DA - KS873 Rathmore Stream UID	12b		29/07/2025	12	Nr												0	2	0	0	0	0	N			0	0	0	0	1	0						N
KG177	Portadown DAP Annagh WwPS	12b		08/08/2028	12	Nr												0	0	3	0	0	0	N			0	0	0	0	0	0	0	0	4	0		N
KH009	Portaferry DAP - Portaferry No 1 PS (North)	12b		12/02/2024	12	Nr												0	0	0	0	0	4	N			0	0	1	0	0	0						N
KG183	Portadown Drainage Area Network Improvements - Meadow Lane and Bann Street	12b		17/10/2025	12	Nr												0	0	0	0	0	1	N			0	0	0	0	6	0						N
KS872	Bangor DAP Work Package 1 Carnalea Stream UID	12b		10/04/2026	12	Nr												0	0	6	0	0	0	N			0	0	0	0	0	1						N
KS872	UID012 KillaneyWWPS 3	12		31/05/2023	12	Nr									1			1	0	0	0	0	0															
KS872	UID177 Killaire WWPS 1	12		31/05/2023	12	Nr						1																										
KS874	Bangor DAP Works Package 3 - Belfast Lough UIDs	12b		13/03/2023	12	Nr												3	0	0	0	0	0	N			2	1	0	0	0	0						N
KS902	Dundrum DAP, UIDs Upgrades.	12b		28/05/2027	12	Nr												3	0	0	0	0	0	N			0	0	0	0	0	0	3					N
SP026	Belfast DA- Forfar Street CSO WwPS	12b			31/03/2027	12	Nr												0	0	0	0	0	0	1	Y			0	0	0	0	0	1						Y
SP026	Belfast DA- Donegal Place Royal Avenue CSO Sewerage	12b			31/03/2027	12	Nr												0	0	0	0	0	0	1	Y			0	0	0	0	0	1						Y
SP026	Belfast DA- Shore Road York CSO WwPS	12b			31/03/2027	12	Nr												0	0	0	0	0	0	1	Y			0	0	0	0	0	1						Y
SP026	Belfast DA- Dunlambert Park CSO	12b			31/03/2027	12	Nr												0	0	0	0	0	0	1	Y			0	0	0	0	0	1						Y
SP026	Belfast DA- North Howard Street CSO WwPS	12b			31/03/2027	12	Nr												0	0	0	0	0	0	1	Y			0	0	0	0	0	1						Y
SP026	Belfast DA- Shankill Road Lanark CSO WwPS	12b			31/03/2027	12	Nr												0	0	0	0	0	0	1	Y			0	0	0	0	0	1						Y
SP026	Belfast DA Upper Falls Boucher CSO DO45	12b			31/03/2027	12	Nr												0	0	0	0	0	1	0	Y			0	0	0	0	0	1						Y
SP026	Belfast DA Oldpark Road CSO DO42	12b			31/03/2027	12	Nr												0	0	0	0	0	0	1	Y			0	0	0	0	0	1						Y
KR734	Kinnegar DA- Brooklands Ave No.21 Sewerage	12b			27/11/2026	12	Nr												0	1	0	0	0	0	N	Y			0	0	0	0	0	1						Y
KR734	Kinnegar DA- Brooklands Crescent WwPS	12b			27/11/2026	12	Nr												0	0	0	0	0	0	1	Y			0	0	0	0	0	1						Y
SP029	Kinnegar DA- Clara Way Sewage	12b			31/03/2027	12	Nr												0	0	0	0	0	0	1	Y			0	0	0	0	0	1						Y
KR734	Kinnegar DA- Comber Road Sewerage	12b			27/11/2026	12	Nr												0	1	0	0	0	0	0	Y			0	0	0	0	0	1						Y
KR734	Kinnegar DA- Comber Road WwPS	12b			27/11/2026	12	Nr												0	0	0	0	0	0	1	Y			0	0	0	0	0	1						Y
KR734	Kinnegar DA- Cumberland Road Sewerage	12b			27/11/2026	12	Nr												0	1	0	0	0	0	0	Y			0	0	0	0	0	1						Y
KR734	Kinnegar DA- Grand Prix Park Sewerage	12b			27/11/2026	12	Nr												0	1	0	0	0	0	0	Y			0	0	0	0	0	1						Y
SP029	Kinnegar DA- Holywood Rd No.2 Sewerage	12b			31/03/2027	12	Nr												0	0	1	0	0	0	0	Y			0	0	0	0	0	1						Y
SP029	Kinnegar DA- Knock Road	12b			31/03/2027	12	Nr												0	0	0	0	0	0	1	Y			0	0	0	0	0	1						Y
SP029	Kinnegar DA- Knock Road Playing Fields Sewerage	12b			31/03/2027	12	Nr												0	0	0	0	0	0	1	Y			0	0	0	0	0	1						Y
SP029	Kinnegar DA- Knocknagoney Country Park Sewerage	12b			31/03/2027	12	Nr												0	0	1	0	0	0	0	Y			0	0	0	0	0	1						Y
KR734	Kinnegar DA- Millars Lane SPS Sewerage	12b			27/11/2026	12	Nr												0	1	0	0	0	0	0	Y			0	0	0	0	0	1						Y
KR734	Kinnegar DA- Moat Park/ Upper Newtonards Road Sewerage	12b			27/11/2026	12	Nr												0	1	0	0	0	0	0	Y			0	0	0	0	0	1						Y
SP029	Kinnegar DA- Orangefield Ave/ Sandh ll Parade	12b			31/03/2027	12	Nr												0	0	0	0	0	0	1	Y			0	0	0	0	0	1						Y
SP029	Kinnegar DA- Palmerston Rd/ Holywood Rd Sewerage	12b			31/03/2027	12	Nr												0	0	0	0	0	0	1	Y			0	0	0	0	0	1						Y
SP029	Kinnegar DA- Parkway WwPS	12b			31/03/2027	12	Nr												0	0	0	0	0	0	1	Y			0	0	0	0	0	1						Y
SP029	Kinnegar DA- Sandown Road No. 149 Sewerage	12b			31/03/2027	12	Nr												0	0	1	0	0	0	0	Y			0	0	0	0	0	1						Y
KR632	Sydenham WwPS	12b			27/12/2028	12	Nr												0	0	0	0	0	1	0	Y			0	0	0	0	0	0	0	1				Y
SP029	Kinnegar DA - Glen Brae WwPS	12b			31/03/2027	12	Nr												0	0	1	0	0	0	0	Y			0	0	0	0	0	1						Y
SP027	Carrick DA - Solution 1 - West Park WwPS	12b			15/12/2026	12	Nr												0	0	0	0	1	0	Y			0	0	0	0	0	1						Y
KB562	Carrick DA - Solution 2 - Marine Highway Carpark Offline Storage	12b			10/01/2025	12	Nr												0	0	0	0	0	5	Y			0	0	1	4	0	0						Y
SP029	Kinnegar DA- Abbey Park WwPS	12b			31/03/2027	12	Nr												0	0	0	0	0	1	Y			0	0	0	0	0	1						Y
SP029	Kinnegar DA- Kensington Road WwPS	12b			31/03/2027	12	Nr												0	0	0	0	0	1	Y			0	0	0	0	0	1						Y
SP029	Kinnegar DA- Knocknagoney Dale WwPS	12b			31/03/2027	12	Nr												0	0	0	0	0	1	Y			0	0	0	0	0	1						Y
KB562	Carrick DA - Marine Highway CSO Screen	12b			10/01/2025	12	Nr												0	0	0	0	1	0	Y			0	0	0	1	0	0						Y
KB562	Carrick DA - Solution 3 - Irish Quarter South CSO	12b			01/12/2023	12	Nr												0	0	0	0	0	1	Y			0	0	1	0	0	0						Y
SP029	Kinnegar Da- Knocknagoney Drive WwPS	12b			31/03/2027	12	Nr												0	0	0	0	0	1	Y			0	0	0	0	0	1						Y

A					B																				C													
Project Information					Project Outputs Baseline																				Project Outputs Current Actual or Projected													
Project ID Reference	Project Name	PC21 Programme	Quality Regulator Date (if appropriate)	BU Date (if appropriate)	PC21 Output Ref Code	Output Units	PC10			PC13		PC15							PC21						LWWP Output (Y/N)	PC15		PC21						PC27				LWWP Output (Y/N)
PI PC21 Proj	PI Project Name						2010 11	2011 12	2012 13	2013 14	2014 15	2015 16	2016 17	2017 18	2018 19	2019 20	2020 21	2021 22	2022 23	2023 24	2024 25	2025 26	2026 27		2019 20	2020 21	2021 22	2022 23	2023 24	2024 25	2025 26	2026 27	2027 28	2028 29	2029 30	2030 31	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
SP036	Carrick DA - Solution 4 - WwTW Boundary CSO Storage Tank	16a		N/A	12	Nr												0	0	0	1	0	0	Y			0	0	0	0	0	0					Y
SP036	Carrick DA - Solution 4 - WwTW Storm Tanks Overflow	16a		N/A	12	Nr												0	0	0	1	0	0	Y			0	0	0	0	0	0					Y
SP026	Belfast DA - Ravenhill Road Ravensdene CSo WwPS	12b		31/03/2027	12	Nr												0	0	0	0	0	1	Y			0	0	0	0	0	1					Y
	Wastewater Pumping Stations (Capacity Increase)																																				
KA270	Antrim DA Neillsbrook WwPS	12c		08/11/2023	12	Nr												0	0	1	0	0	0	N			0	0	1	0	0	0					N
KL542	Ballymagorry DA Ballymagorry Tyrone WwPS	12c		31/10/2024	12	Nr												0	0	1	0	0	0	N			0	0	0	1	0	0					N
KR647	Bangor DA Ballyrobert Bangor WwPS	12c		22/09/2021	12	Nr												0	1	0	0	0	0	N			1	0	0	0	0	0					N
KF426	Derryhale DA - Brompton Park WwPS	12c		22/05/2026	12	Nr												0	0	1	0	0	0	N			0	0	0	0	0	1					N
KG235	Derryhale DA Dobbin WwPS	12c		24/02/2026	12	Nr												0	1	0	0	0	0	N			0	0	0	0	1	0					N
KS971	Donaghadee DA - Cotton WWPS	12c		23/10/2026	12	Nr												0	0	1	0	0	0	N			0	0	0	0	0	1					N
KL533	Donnybrewer DA Eg inton Cottage Way WwPS	12c		23/06/2022	12	Nr												0	0	1	0	0	0	N			0	1	0	0	0	0					N
KF362	Keady Armagh DA Armvale WwPS	12c		17/12/2026	12	Nr												0	1	0	0	0	0	N			0	0	0	0	0	1					N
KG140	Moira DA Waringfield WwPS	12c		30/01/2025	12	Nr												0	0	1	0	0	0	N			0	0	0	1	0	0					N
KF421	Moy DA Keenaghan WwPS Upgrade	12c		30/03/2027	12	Nr												0	1	0	0	0	0	N			0	0	0	0	0	1					N
KV243	Rathfriland Drumlough DA Sleepy Valley Rathfriland WwPS	12c		26/09/2025	12	Nr												0	1	0	0	0	0	N			0	0	0	0	1	0					N
KF378	Tamnamore DA Clonmore Road Clontyclay WwPS	12c		10/02/2023	12	Nr												0	1	0	0	0	0	N			0	1	0	0	0	0					N
SP030	New Growth LWWP	12c		31/03/2027	12	Nr												0	0	0	0	0	??	Y			0	0	0	0	0	??					Y
	Wastewater Treatment Works																																				
KT102	Dunmurry WwTW Mod fications	16		19/03/2012	13	nr		1																N													N
KB436	Whitehead, Ballystruder & Ballycarry Rationalisation	16		16/02/2012	13	nr		1																N													N
KR389	Ballyhalbert WwTW Interim Solution	16		28/03/2013	13	nr			1															N													N
KA195	Mullaghboy WWTW	16		04/04/2011	13	nr		1																N													N
KR391	Portavogie WwTW Interim Solution	16		24/09/2012	13	nr			1															N													N
KS253	Drumaness WwTW	16		31/08/2010	13	nr	1																	N													N
KB282	Magherafelt WwTW	16		28/03/2011	13	nr	1																	N													N
KT125	Hook's Corner WwTW	16		28/03/2011	13	nr	1																	N													N
KL393	Ballymonie WwTW	16		18/03/2011	13	nr	1																	N													N
KB269	Toome (Creagh) Sewerage Scheme	16		22/03/2011	13	nr	1																	N													N
KS307	Loughries WWTW	16		25/01/2011	13	nr	1																	N													N
KB281	Maghera WwTW	16		03/02/2011	13	nr	1																	N													N
KL363	Feeny WwTW	16		25/11/2011	13	nr		1																N													N
KR310	Newtownbreda WwTW	16		04/02/2011	13	nr	1																	N													N
KG145	Derrytrasna WwTW Upgrade	16		29/11/2010	13	nr	1																	N													N
KB333	Cargan WwTW	16		30/11/2010	13	nr	1																	N													N
KC284	Cloughmills WwTW	16		30/11/2010	13	nr	1																	N													N
KB322	Martinstown WwTW	16		13/12/2010	13	nr	1																	N													N
KF005	Coalisland WwTW	16		01/12/2010	13	nr	1																	N													N
KC299	Bushmi ls + Portballintrae WwTW	16		06/12/2010	13	nr	1																	N													N
KB279	Stewartstown WwTW Improvements	16		10/11/2010	13	nr	1																	N													N
KB284	Coagh WwTW Improvements	16		10/11/2010	13	nr	1																	N													N
KL300	Dungiven WwTW	16		10/11/2010	13	nr	1																	N													N
KV064	Lurganare WwTW	16		30/09/2010	13	nr	1																	N													N
KN533	Rousky Sewerage Scheme	16		09/09/2010	13	nr	1				0													N													N
KB278	Moneymore STW Imps	16		18/08/2010	13	nr	1																	N													N
KS224	Downpatrick WwTW	16		14/12/2009	13	nr	1																	N													N
KF319	Annaghmore WwTWs	16		27/09/2010	13	nr	1																	N													N
KS225	Ardglass WWTW	16		20/03/2015	13	nr					1													N													N
KT377	New Holland WwTW	16		28/03/2011	13	nr	1																	N													N
KS374	Darragh Cross WwTW	16		07/09/2010	13	nr	1																	N													N
KC338	Causeway/Aird (New Pumping Station)	16		23/08/2011	13	nr		1																N													N
KC416	Glenstall WwTW - Nutrient Reduction	16		25/02/2013	13	nr			1															N													N
KN622	Omagh WwTW - Nutrient Reduction	16		25/02/2013	13	nr			1															N													N
KL465	Limavady WwTW - Nutrient Reduction	16		25/02/2013	13	nr			1															N													N
KF329	Ardress WWPS Upgrade	16		31/03/2012	13	nr		1																N													N
KS857	Glassdrumman WWTW	16		23/12/2011	13	nr		1																N													N
KS216	Dunmore Sewerage - EC Compliance	16		30/06/2011	13	nr		1																N													N
KF320	Bush WwTW	16		03/06/2010	13	nr	1																	N													N
KF028	Keady Wwtw	16		29/11/2012	13	nr			1															N													N
KL482	Tamnaherin Wwtw	16		28/01/2013	13	nr			1															N													N
KV105	Newry WwTW Extension Phase 1	16		28/01/2013	13	nr			1															N													N
KF060	Brockagh Terrace/Mountjoy WtWT	16		13/08/2012	13	nr			1															N													N
KV125	Forkhill WwTW	16		28/03/2013	13	nr			1															N													N
KV045	Mullaghbane WwTW	16		28/03/2013	13	nr			1															N													N
KB287	Swatragh WwTW	16		21/03/2013	13	nr			1															N													N
KB314	Gulladuff WwTW	16		16/12/2013	13	nr				1														N													N
KT114	Hillsborough WWTW	16		18/03/2014	13	nr				1														N													N
KS848	Newcastle WwTW	16		09/12/2013	13	nr				1														N													N
KR501	Carrickfergus WWTW Upgrade	16		31/03/2014	13	nr				1														N													N
KR530	Belfast WwTW Base Maintenance Phase 2	16		18/03/2014	13	nr				1														N													N
KN631	Strabane WWTW's Refurbishment	16		20/12/2013	13	nr				1														N													N
KL350	Benone Area Sewerage	16		16/09/2013	13	nr																		N													N
KL350	Decommission Benone WwTW & construct WwPS	16		16/09/2013	13	nr				1														N													N
KL350	Decommission Drumavelly WwTW & construct WwPS	16		16/09/2013	13	nr				1														N													N
KL350	Decommission Augh l WwTW & construct WwPS	16		16/09/2013	13	nr				1														N													N
KL350	Decommission MoD WwTW & construct WwPS	16		16/09/2013	13	nr				1														N													N
KL350	Decommission NIPS WwTW & construct WwPS	16		16/09/2013	13	nr				1														N													N
KL350	Provision of new Mag lligan WwTW	16		16/09/2013	13	nr				1														N													N
KP672	Tempo WwTW	16		06/01/2015	13	nr					1													N													N
KS844	Ballyhoman Outfall - NIEA Enforcement	16		31/12/2013	13	nr				1														N													N
KL424	Magheramason Wwtw	16		20/03/2015	13	nr					1													N													N
KR409	Moneyreagh WwTW (Storm Pumping station)	16		12/12/2013	13	nr				1														N													N
KP586	Clabby Wwtw	16		30/03/2018	13	nr									1									N													N
KN599	Donaghmore Wwtw	16		19/03/2015	13	nr					1													N													N
KL487	Nixon's Corner	16		30/01/2015	13	nr					1													N													N
KL386	Gortnahey Wwtw	16		24/07/2014	13	nr					1													N													N
KS389	Ballymartin & Blackrock WwTWs	16			13	nr																		N													N
KS389	Ballymartin WwTW	16		31/03/2015	13	nr					1													N													N
KS389	Blackrock WwTW	16		31/03/2016	13	nr							1											N													N
KS355	Ballynahinch Wwtw	16		21/03/2014	13	nr				1														N													N
KS905	Kilmore & Annacloy WwTW	16			13	nr																		N													N
KS906	Kilmore WwTW	16		10/03/2015	13	nr					1													N													N
KS907	Annacloy WwTW	16		11/03/2015	13	nr					1													N													N
KS887	Ards South (Ballycranbeg WwTW load reduction)	16		31/03/2015	13	nr					1													N													N
KL496	Feeny WwTW - Replacement Secondary Treatment	16		08/08/2014	13	nr					1													N													N
KN596	Ballymagory WWTW	16		30/03/2015	13	nr					1													N													N
KL493	Artigarvin WwTW	16		21/12/2015	13	nr						1												N													N
KN640	Dromore (Tyrone) WWTW	16		20/03/2015	13	nr					1													N													N
KT402	Dunmurry WWTW Sludge Facil ty	16		18/03/2014	13	nr				1														N													N
KB459	Maghera WwTW Phase 2	16		04/02/2014	13	nr				1														N													N
KL394	Drumsurn Wwtw	16		16/12/2014	13	nr					1													N													N
KP668	Lisnarrick Wwtw	16		01/12/2014	13	nr					1													N													N
KT126	Stoneyford Wwtw	16		28/11/2014	13	nr					1													N													N
KI508	UWWTR MCERT compliance	16		31/01/2016	13	nr						1												N													N
KC296	Ballycastle WwTW	16		30/12/2017	13	nr								1										N													N
KN656	Castle Archdale WwTW	16		30/03/2016	13	nr						1												N													N
KG202	Aghaga lon WwTW	16		31/03/2015	13	nr					1													N													N
	Waringsford	16		30/09/2014	13	nr					1													N													N
KC302	Ballintoy WwTW	16		29/03/2020	13	nr										1								N	1												N
KS111	Ards South - Cloughey	16		31/03/2020	13	nr									1									N													N
KL489	Ballyke ly WwTW	16		22/07/2021	13	nr											1							N		0	1										N
	Dundrum WwTW	16		31/03/2019	13	nr									1									N													N
KC463	Ballybogy WwTW	16		31/03/2021	13	nr										1								N		1											N
KA239	Mullans WwTW (Antrim)	16		29/03/2018	13	nr									1									N													N
KF350	Dungannon WwTW Phase 1	16		29/03/2020	13	nr										1								N	1												N
KS918	Greyabbey WwTW	16		31/03/2020	13	nr										1								N	1												N
KG041	Maghaberry WwTW (additional output in 16/17 draft adjusted outputs submission)	16		29/03/2019	13	nr									1									N													N
	The Loup	16		15/03/2017	13	nr							1											N													N
KC427	Ballyvoy	16		31/03/2021	13	nr											1									1											
KF423	Cabragh WwTW	16a		03/11/2026	13	Nr												0	0	0	0	0	1	N			0	0	0	0	0	1					N
KB556	Grange (Taylorstown) WwTW	16a		25/04/2025	13	Nr												0	0	0	0	1	0	N			0	0	0	0	1	0					N
KP703	Monea WwTW	16a		30/07/2025	13	Nr												0	0	0	1	0	0	N			0	0	0	0	1	0					N
KT443	Dromara WwTW	16a		18/06/2027	13	Nr												0	0	0	0	0	1	N			0	0	0	0	0	1					N
KS996	Drumaness WwTW	16a		27/03/2026	13	Nr												0	0	1	0	0	0	N			0	0	0	0	1	0					N
KP705	Ballygawley WwTW	16a		26/06/2025	13	Nr												0	0	0	1	0	0	N			0	0	0	0	1	0					N
KT439	Dromore WwTW	16a		21/08/2026	13	Nr												0	0	0	0	0	1	N			0	0	0	0	0	1					N
KN680	Mountfield PC21	16a		22/03/2024	13	Nr												0	0	1	0	0	0	N			0	0	1	0	0	0					N
KF418	Robinsonstown WwTW	16a		08/12/2026	13	Nr												0	0	0	0	1	0	N			0	0	0	0	0	1					N
KP704	Tamlaght WwTW	16a		03/09/2024	13	Nr												0	0	1	0	0	0	N			0	0	0	1	0	0					N
KL566	Culmore WwTW- Cat 5	16a		28/12/2029	13	Nr												0	0	0	0	0	1	N			0	0	0	0	0	0	0	0	1		N
KB558	Larne WwTW	16a		05/12/2029	13	Nr												0	0	0	0	0	1	N			0	0	0	0	0	0	0	0	1		N
KL565	Aghanloo WwTW	16a		28/02/2025	13	Nr												0	0	1	0	0	0	N			0	0	0	1	0	0					N
KF419	Moy WwTW	16a		08/03/2027	13	Nr												0	0	0	0	0	1	N			0	0	0	0	0	1					N
KB553	Killygonlan WwTW	16a		18/12/2026	13	Nr												0	0	0	0	1	0	N			0	0	0	0	0	1					N

A					B																					C												
Project Information					Project Outputs Baseline																					Project Outputs Current Actual or Projected												
Project ID Reference	Project Name	PC21 Programme	Quality Regulator Date (if appropriate)	BU Date (if appropriate)	PC21 Output Ref Code	Output Units	PC10			PC13		PC15						PC21						LWWP Output (Y/N)	PC15		PC21						PC27				LWWP Output (Y/N)
PI Project ID	PI Project Name	PI PC21 Prog					2010 11	2011 12	2012 13	2013 14	2014 15	2015 16	2016 17	2017 18	2018 19	2019 20	2020 21	2021 22	2022 23	2023 24	2024 25	2025 26	2026 27		2019 20	2020 21	2021 22	2022 23	2023 24	2024 25	2025 26	2026 27	2027 28	2028 29	2029 30	2030 31	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
KB551	Derrycrin WwTW	16a		17/11/2023	13	Nr												0	0	1	0	0	0	N			0	0	1	0	0	0					N
KB552	Ballyronan WwTW	16a		03/07/2024	13	Nr												0	0	1	0	0	0	N			0	0	0	1	0	0					N
KV241	Warrenpoint WwTW Phase 2	16a		15/11/2022	13	Nr												0	1	0	0	0	0	N			0	1	0	0	0	0					N
KN683	Cat 5- Lisnaskea 2 WwTW	16a		26/03/2027	13	Nr												0	0	1	0	0	0	N			0	0	0	0	0	1					N
KN682	Stewartstown WwTW	16a		17/12/2025	13	Nr												0	0	1	0	0	0	N			0	0	0	0	1	0					N
KN681	Pomeroy WwTW	16a		15/03/2024	13	Nr												0	0	1	0	0	0	N			0	0	1	0	0	0					N
KF355	Markethill WwTW	16a		27/05/2027	13	Nr												0	0	0	1	0	0	N			0	0	0	0	0	0	1				N
KN684	Clogher WWTW	16a		11/09/2026	13	Nr												0	0	0	0	0	1	N			0	0	0	0	0	1					N
KV252	Kilkeel WwTW	16a		TBC	13	Nr												0	0	1	0	0	0	N			0	0	0	0	0	0					N
KS998	Downpatrick WwTW	16a		15/09/2027	13	Nr												0	0	0	0	0	0	N			0	0	0	0	0	0	1				N
KG234	Waringstown WwTW	16a		02/12/2026	13	Nr												0	0	1	0	0	0	N			0	0	0	0	0	1					N
KS997	Killinchy WwTW	16a		05/05/2027	13	Nr												0	0	0	0	0	1	N			0	0	0	0	0	0	1				N
KF425	Dungannon WwTW	16a		31/03/2027	13	Nr												0	0	0	0	0	1	N			0	0	0	0	0	1					N
KN685	Lough Macrory WwTW	16a		19/06/2026	13	Nr												0	0	1	0	0	0	N			0	0	0	0	0	1					N
KS981	Newcastle WwTW	16a		03/03/2025	13	Nr												0	0	0	0	0	1	N			0	0	0	1	0	0					N
KR730	Loughries WwTW	16a		16/02/2023	13	Nr												0	1	0	0	0	0	N			0	1	0	0	0	0					N
KV244	Newry WwTW	16a		07/11/2030	13	Nr												0	0	0	0	0	1	N			0	0	0	0	0	0	0	0	0	1	N
KH004	Dundrum WWTW	16a		10/07/2025	13	Nr												0	0	0	0	1	0	N			0	0	0	0	1	0					N
KB554	Ballaghy WwTW	16a		16/12/2026	13	Nr												0	0	0	0	1	0	N			0	0	0	0	0	1					N
KH002	Annsborough WwTW	16a		01/04/2027	13	Nr												0	0	0	0	1	0	N			0	0	0	0	0	0	1				N
KV245	Meigh WwTW	16a		31/03/2026	13	Nr												0	0	1	0	0	0	N			0	0	0	0	1	0					N
KC494	Kilrea WwTW	16a		26/08/2025	13	Nr												0	0	1	0	0	0	N			0	0	0	0	1	0					N
KS113	Ards North, Carrowdore, Ballywalter, Ballyhaskin	16		18/01/2023														0	0	0	0	0	0	N			0	0	0	0	0	0					N
KS113	Carrowdore WwTW	16a		17/02/2023	13	Nr												0	1	0	0	0	0	N			0	1	0	0	0	0					N
KS113	Ballywalter WwTW	16a		17/02/2023	13	Nr												0	1	0	0	0	0	N			0	1	0	0	0	0					N
KS113	Ballyhaskin WwTW	16a		17/02/2023	13	Nr												0	1	0	0	0	0	N			0	1	0	0	0	0					N
KS235	Ballygowan WwTW	16		01/06/2022														0	0	0	0	0	0	N			0	0	0	0	0	0					N
KS235	Ballygowan WwTW	16a		26/01/2023	13	Nr												0	0	1	0	0	0	N			0	1	0	0	0	0					N
KS235	Moneyreagh WwTW	16		31/03/2019	13	Nr									1			0	0	0	0	0	0	N			0	0	0	0	0	0					N
KR725	Whitehouse WwTW	16b		26/02/2027	13	Nr												0	0	1	0	0	0	Y			0	0	0	0	0	1					Y
KR726	Belfast WwTW - Phase 1 upgrade	16b		26/02/2027	13	Nr												0	0	0	0	0	1	Y			0	0	0	0	0	1	0				Y
KR727	Greenisland WwTW	16b		06/02/2030	13	Nr												0	0	0	0	0	1	Y			0	0	0	0	0	0	0	0	1		Y
KR728	Carrickfergus WwTW	16b		06/02/2030	13	Nr												0	0	0	0	0	1	Y			0	0	0	0	0	0	0	0	1		Y
	Small Wastewater Treatment Works					Nr																															
KI486	Annahugh WwTW	17		2010/2011	13	nr	1																	N													N
KI486	Ga ba ly WwTW	17		2010/2011	13	nr	1																	N													N
KI486	Maghery WwTW	17		2010/2011	13	nr	1																	N													N
KI486	Montieth WwTW	17		2011/2012	13	nr		1																N													N
KI486	Orritor WwTW	17		2011/2012	13	nr		1																N													N
KI486	Garvaghy WwTW	17		2011/2012	13	nr		1																N													N
KI486	Donagheady WwTW	17		2010/2011	13	nr	1																	N													N
KI486	Attical Tullyframe WwTW	17		2011/2012	13	nr		1																N													N
KI486	Donagh WwTW	17		2011/2012	13	nr		1																N													N
KI486	Glack WwTW	17		2012/2013	13	nr			1															N													N
KI486	Teemore WwTW	17		2011/2012	13	nr		1																N													N
	Small Wastewater Treatment Works - PC10 Programme <250pe to be detailed	17		2010-2013	14	nr	11	23	14															N													N
	Small Wastewater Treatment Works - PC13 Programme <250pe to be detailed	17		2013-2015	14	nr				7	18													N													N
	Small Wastewater Treatment Works - PC15 Programme <250pe to be detailed	17		2015-2021	14	nr						4	8	3	8	10	11							N	10	11											N
SP038	RWWP RBC <50PE (Current PE)	17z		30/03/2027	14	Nr												6	6	6	6	6	6	N			2	10	4	7	7	6					N
	Small Wastewater Treatment Works (Sustainable Solutions)					Nr																															
SP038	RWWIP – Sustainable Option	17z		30/03/2027		Nr												0	0	0	1	1	1	N			0	0	0	1	1	1					N
	Wastewater Siphons																																				
KL494	Culmore DA Strathfoyle Siphons	12i		30/03/2026		Nr												0	0	0	0	0	1	N			0	0	0	0	1	0					N
SP026	Belfast DA Queens Bridge Siphons	12H		30/06/2022		Nr												0	0	0	0	0	1	Y			0	1	0	0	0	0					Y
	Event Duration Monitors																																				
SP021	Event Duration Monitors WwPS/CSOs	12b		30/03/2027		Nr												50	50	100	150	150	146	N			52	83	124	122	123	142					N
KI697	Event Duration Monitors WwTW	16d		31/03/2027		Nr												16	17	17	16	16	16	N			0	0	0	0	49	49					N

Table 40a - Nominated Outputs

The following tables identify those PC21 Nominated Outputs delivered during the programme. The information aligns with that claimed in the relevant AIR Tables and also endeavours to update the status of the Nominated Outputs not delivered in period.

The delivery of Nominated Outputs has been measured against the Final Determination Targets with any accepted Change Controls incorporated.

For further details on the complete programme please refer to Table 40a.

Water Service Activities

Includes Table 11 Outputs.

Table 11, Line 22 - Completion of nominated trunk main schemes

Within Sub-programme 05, the PC21 Final Determination indicated a target of 14 trunk main schemes for the 6-year period with 1 of these profiled for delivery in 2023/24. As of Year 3 (2023/24), 5 trunk mains initially planned to achieve Beneficial Use in PC21 have been extended into the first 2 years of PC27 however, NI Water are planning to pull these back into PC21 for completion.

Cumulative target to end of Year 3 = 3
Cumulative achieved at end of Year 3 = 5

Crescent Link, previously meant to achieve Beneficial Use in Year 2 (2022/23), was completed in Year 3 along with the acceleration of Killyhevlin to Cavanacross.

Beltoy & Unagh Trunkmain achieved Beneficial Use in Year 3 (2023/24) of the programme. This project was added as a nominated output via change control, and accelerated in place of Carmoney to Strabane Trunkmain which was originally intended for delivery in Year 6 due to Beltoy & Unagh being an area of high demand. Carmoney to Strabane Trunkmain is now anticipated for delivery in Year 2 of PC27 (2028/29).

The confidence grade for this line was assessed as A1: this is based on review of CPMR approvals and financial details contained within CPMR.

Trunk Mains Delivered During the Third Year of PC21 - AIR24 Period

Project Name	Project Code	Beneficial Use Date	Comments
Cresent Link	JL807	09/05/2023	
Killyhevlin to Cavanacross	JP702	15/02/2024	
Beltoy & Unagh	JI212	27/03/2024	Added in Nov 22 by Output Review Group (ORG)

Table 11, Line 23 - Completion of nominated water treatment works schemes

Within Sub-programme 04, the PC21 Final Determination indicated a target of 22 water treatment work schemes for the 6-year period with 6 of these profiled for delivery in 2023/24. As of Year 3 (2023/24), 2 water treatment works initially planned to achieve Beneficial Use in PC21, have been extended into the first year of PC27.

Cumulative target to end of Year 3 = 7
Cumulative achieved at end of Year 3 = 7 (5 PC21 schemes delivered against a target of 7, and 2 PC15 schemes).

Carmoney and Drumaroad Treatability Improvement projects achieved Beneficial Use in Year 3 (2023/24) of the programme.

Altnahinch Treatability Improvements project achieved Beneficial Use in Year 3 (2023/24) of the programme, one year prior to the Year 4 (2024/25) target.

The confidence grade for this line was determined using the reporting guidance and was assessed as A1 following review of CPMR approvals and financial details contained within CPMR.

WTWs Delivered During the Third Year of PC21 - AIR24 Period

Project Name	Project Code	Beneficial Use Date	Comments
Carmoney Treatability Improvements	JL814	31/05/2023	
Drumaroad Treatability Improvements	JS328	29/09/2023	
Altnahinch Treatability Improvements	JA330	25/03/2024	

Table 11, Line 24 - Completion of nominated improvements to increase the capacity of service reservoirs and clear water tanks

Within Sub-programme 06, the PC21 Final Determination indicated a target of 4 service reservoirs and clear water tank improvements for the 6-year period with none of these profiled for delivery in 2023/24. 2 clear water tank projects achieved Beneficial Use in Year 3 (2023/24) of the programme, exceeding the PC21 FD target.

Cumulative target to end of Year 3 = 1
Cumulative achieved at end of Year 3 = 3

The confidence was assessed as A1 following review of CPMR approvals and financial details contained within CPMR.

SRs and CWTs Delivered During the Third Year of PC21 - AIR24 Period

Project Name	Project Code	Beneficial Use Date	Comments
Fofanny CWT	JS308	05/10/2023	
Seagahan CWT	JF615	06/03/2024	

Sewerage Service Activities

Includes Table 16 Outputs.

Currently the UID programme reflects the submission made for the PC21 Business Plan with the addition of any PC15 UIDs which were not delivered prior to commencing PC21. As a result of the Scope Certainty exercise NI Water anticipated this and a Change Control was facilitated via the PC21 Mid Term Review which set out all of the intended UIDs for delivery within PC21. NIEA were engaged via the PC21 MTR process (and the NIEA/NIW Wastewater Investment Group) as well as the UR to ensure delivery of the correct solutions for Northern Ireland.

Table 16, Line 26 - Delivery of improvements to nominated UIDs as part of a defined programme of work

Within Sub-programme 12, NI Water has established the process for the identification, monitoring and review of UIDs. This included linking CAR and FD identifiers, developing CPMR to hold all relevant UID information and introducing review steps for all potential UIDs identified. In addition, NIEA have full visibility of the programme and sign off individual outputs within overall schemes: consequently, UIDs are claimed on a rolling basis rather than waiting for overall scheme completion.

The PC21 Final Determination indicated a target of 139 UID improvements for the 6-year period with 23 of these profiled for delivery in 2023/24. 5 FD nominated outputs were delivered between 01 April 2023 and 31 March 2024 with the remaining projected UIDs not delivered split across the remaining years of PC21. 35 UIDs initially planned to achieve Beneficial Use in PC21, have been extended into the first 4 years of PC27.

Cumulative target to end of Year 3 = 52
Cumulative achieved at end of Year 3 = 12

As part of the Mid Term Review (MTR), NI Water's PC21 targets for UIDs are expected to reset due to scope certainty exercises carried out within the first two years of PC21.

NI Water has maintained improvements in the reporting process and the cross-checking process for this line which were initially implemented for the AIR14 submission. Improvements in the management of Beneficial Use dates were implemented in January 2016. For 2023/24, the confidence grade for this line was determined using the reporting guidance and assessed as A1 – based on sound, time specific data captured relevant to each individual UID.

UIDs Delivered During the Third Year of PC21 - AIR24 Period

Catchment	UID Address	FD Ref.	Project ID	Comments	Operational Date
Cookstown WwTW	Derryloran Industrial Estate One WwPS	IPAC2258	KN688	Upgraded	12/04/2023
Antrim WwTW	Neillsbrook WwPS	IPAC1066	KA270	Upgraded	08/11/2023
Carrickfergus WwTW	Carrickfergus Rodgers Quay WwPS	IPAC2768	KB562	Upgraded	01/12/2023

Catchment	UID Address	FD Ref.	Project ID	Comments	Operational Date
Portaferry WwTW	Portaferry One WwPS	IPAC1910	KH009	Upgraded	12/02/2024
Carrickfergus WwTW	Irish Quarter South	IPAC1987	KB562	Upgraded	01/12/2023

Non-Nominated UIDs Currently Undergoing Verification with NIEA - Delivered During the Third Year of PC21 - AIR24 Period

Catchment	UID Address	FD Ref.	Project ID	Comments	Operational Date
Greenisland WwTW	Greenisland Four WwPS	IPAC2773	KR761	Upgraded	30/11/2023
Greenisland WwTW	Greenisland Three WwPS	IPAC1684	KR761	Upgraded	29/03/2024
Seahill WwTW	Ballyrobert Road CSO	IPAC2780	KR763	Upgraded	08/09/2023
Seahill WwTW	Ben Vista Holywood WwPS	IPAC2778	KR763	Upgraded	04/12/2023
Seahill WwTW	Old Quay Court WwPS	IPAC2783	KR763	Upgraded	04/12/2023
Seahill WwTW	Cultra Avenue CSO	IPAC2784	KR763	Upgraded	13/02/2024

18 of the UIDs were not delivered in 2023/24 due to reprofiling of the programme as a result of scope certainty exercises and further modelling work being undertaken – Examples include Faughan Crescent WwPS (1), Limavady DA (2), Knocknagoney Country Park Sewerage (1), and Brompton Park WwPS (1). As such, these 18 UIDs are expected for delivery across the remainder of PC21 (Years 4-6), as well as through the first half of PC27.

At the time of audit, only 2 of the 5 claimed UIDs in Year 3 (2023/24) had received NIEA sign off – Derryloran WwPS and Neillsbrook WwPS. However, sign off for the remaining 3 UIDs is expected imminently. Furthermore, the reasoning for the split in UID tables is due to the bottom table still awaiting ratification through the MTR. These 6 UIDs were included in the PC21 MTR Draft Determination however, until these are fully approved within the PC21 MTR Final Determination, they are still pending as nominated outputs.

Table 16, Line 27 - Delivery of improvements to WwTW through nominated schemes as part of a defined programme of work

Within Sub-programme 16, 3 WwTW nominated outputs were delivered between 01 April 2023 and 31 March 2024.

The PC21 Final Determination indicated a target of 45 wastewater treatment work schemes for the 6-year period with 16 of these profiled for delivery in 2023/24. As of Year 3 (2023/24), 10 wastewater treatment works initially planned to achieve Beneficial Use in PC21, have been extended into the first 4 years of PC27.

Cumulative target to end of Year 3 = 21
Cumulative achieved at end of Year 3 = 10

Changes to the definition of how Beneficial Use can be claimed on a WwTW project were agreed with the Regulator in 2018/19 to ensure a WwTW is capable of meeting the appropriate consent standard.

NI Water has maintained improvements in the reporting process and the cross-checking process for this line which were initially implemented for the AIR14 submission. Improvements in the management of Beneficial Use dates were implemented in January 2016. For 2023/24, the confidence grade for this line was determined using the reporting guidance and assessed as A1 – based on sound, time specific data captured relevant to each individual WwTW.

WwTWs Delivered During the Third Year of PC21 - AIR24 Period

Project Name	Project Code	Beneficial Use Date	Comments
Derrycrin WwTW	KB551	17/11/2023	
Pomeroy WwTW	KN681	15/03/2024	
Mountfield WwTW	KN680	22/03/2024	

Table 16, Line 28 - Investment in improvements to small wastewater treatment works as part of the Rural Wastewater Investment Programme.

Within Sub-programme 17, 4 small rural schemes achieved beneficial use in 2023/24. Details of the actual works and year delivered are listed in the table below.

The PC21 FD Target for RWwIP outputs in each year is 6 with a total of 36 sites to be delivered in the PC period. NI Water still intends to deliver the full 36 sites however it is to be noted that the numbers to be delivered may be spread over the remaining years of PC21.

Cumulative target to end of Year 3 = 18
Cumulative achieved at end of Year 3 = 16

As with WwTW in Line 27, a change in how Beneficial Use may be claimed was agreed in 2018/19. After discussions with the Utility Regulator, it was accepted that in the case of the Rural Wastewater Investment Programme, achieving beneficial use should be based on evidenced delivery of improvement (e.g., improved discharge to the environment) which was not necessarily the date of NIEA sign-off.

Whilst Beneficial Use is not dependent on project sign-off by the relevant regulator, regulatory sign-off should be sought once the company determines that Beneficial Use has been obtained. If regulatory sign-off is declined, then the Beneficial Use date should be revised to take account of the additional work identified to achieve Beneficial Use.

At the time of Audit, samples were not yet available to confirm Beneficial Use could be claimed on all 4 sites listed in the table below, however in line with the UR guidance, sites where evidence exists before the time of company AIR submission may be claimed within the reporting year. As such Table 16 and 40a have been updated accordingly and NI Water will continue to review procedures to ensure timely reporting.

The confidence grades for this line were determined using the reporting guidance and were assessed as A1, based on the evidence within the methodology and the visibility of programme as defined within the ‘Project Sites’ section on CPMR.

RWwIP Schemes Delivered During the Third Year of PC21 - AIR24 Period

CAR Site Reference	Project title	Year claimed
S02578	Eglish Armagh WwTW	2023/24
S01158	Lisnamuck Coleraine WwTW	2023/24
S03230	Tirquin WwTW	2023/24
S03235	Tursallagh WwTW	2023/24

Table 16, Line 32 - Number of sustainable WwTW solutions delivered (p.e. ≥ 250)

No WwTW sustainable solutions with a p.e. greater than 250 were delivered in 2023/24.

Table 16, Line 33 - Number of sustainable WwTW solutions delivered (p.e. < 250)

No WwTW sustainable solutions with a p.e. less than 250 were delivered in 2023/24.

Table 16, Line 34 - Number of current Economic Constraint Areas removed by PC21 investment

0 Economic Constraint Area were eased in 2023/24. However, positive planning responses are provided by NI Water to Developers due to the ongoing construction works in a number of catchments.

Table 16, Line 35 - Number of current Serious Development Restrictions removed by PC21 investment

2 Serious Development Restrictions were eased in 2023/24 – Derrycrin and Pomeroy.

NORTHERN IRELAND WATER LIMITED - ANNUAL INFORMATION RETURN

ANNUAL INFORMATION RETURN - TABLE 40b CAPITAL INVESTMENT
DELIVERY OF DAPs AND INTEGRATED ENVIRONMENTAL MODELLING

Drainage Area Plans and Integrated Environmental Modelling																			
A			B		C		D				E			F		G	H	I	J
DAP Information			Model Build Report Dates		Needs and Options Report Dates		Integrated Environmental Modelling (IEM) Dates				DAP Information			IEM Information			IEM Information		
DAP reference (linked to Table 40)	DAP Name	Population Served	Baseline Model Build Report Completion Date	Current Actual or Projected Model Build Report Completion Date	Baseline Needs and Options Report Completion Date	Current Actual or Projected Needs and Options Report Completion Date	IEM reference (linked to Table 40)	IEM Name	Baseline IEM Completion Date	Current Actual or Projected IEM Completion Date	Current Stage of DAP	DAP Model	DAP Consultant	IEM Model	IEM Consultant		Current Stage of IEM	DAP - IEM linkage	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
DAP_ID	DAP_Name	DAP_Pop	DAP_MBR_BL_Sub_Date	DAP_MBR_CAP_Sub_Date	DAP_NOR_BL_Sub_Date	DAP_NOR_CAP_Sub_Date	IEM_ID	IEM_Name	IEM_BL_Sub_Date	EM_CAP_Sub_Date	Select DAP Stage from Dropdown	DAP Model	DAP Consultant	Select IEM Model from Dropdown	IEM Consultant	Comments	Select IEM Stage from Dropdown	Select IEM linkage from Dropdown	No. of Assets
DA0001	Moorfields DA	271	Jul-23	Jul-23			IEM14	Maine	Sep-23	Aug-24	Rurals Model Build Handover Complete	Historical Rurals	Atkins	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	
DA0002	Belfast DA	494,823	Mar-21	Mar-21	Apr-23	Dec-23	IEM11	Belfast	Dec-22	Mar-24	Stage 4 - Interventions	PC21 link	Atkins	Shellfish Compliance & River WFD Model	AFBI and Longline Environmental (LLE)		Stage 4 - Interventions	IEM DAP Pollutograph Output	126
DA0003	Whitehouse DA	111,106	Dec-15	Dec-15	Mar-21	Mar-21	IEM11	Belfast	Dec-22	Mar-24	Stage 5 - Modelling Support	PC21 link	Atkins	Shel fish Compliance & River WFD Model	AFBI and Longline Environmental (LLE)		Stage 4 - Interventions	IEM DAP Pollutograph Output	26
DA0004	Greenisland DA	13,501	Sep-18	Sep-18	Oct-21	Oct-21	IEM11	Belfast	Dec-22	Mar-24	Stage 5 - Modelling Support	PC21 link	Atkins	Shel fish Compliance & River WFD Model	AFBI and Longline Environmental (LLE)		Stage 4 - Interventions	IEM DAP Pollutograph Output	9
DA0005	Carrickfergus DA	31,523	Aug-16	Aug-16	Jun-20	Jun-20	IEM11	Belfast	Dec-22	Mar-24	DAP Stage 5 Complete	PC21 link	Atkins	Shel fish Compliance & River WFD Model	AFBI and Longline Environmental (LLE)		Stage 4 - Interventions	IEM DAP Pollutograph Output	14
DA0008	Mullaghboy DA	535	Jul-23	Jul-23			IEM02	Larne	Mar-23	Nov-23	Rurals Model Build Handover Complete	Rurals	Atkins	Bathing Water & She lfish Compliance Model	Intertek	DA physically within IEM boundary howev	Stage 4 - Interventions	NMC Pollutograph Output	3
DA0009	Ballylumford Cottages DA	58					IEM02	Larne	Mar-23	Nov-23	No Planned Study	No Planned Study	No Planned	Bathing Water & She lfish Compliance Model	Intertek	DA physically within IEM boundary howev	Stage 4 - Interventions	NMC Pollutograph Output	
DA0010	Dunmurry DA	51,227	Nov-22	Oct-23	Nov-23		IEM11	Belfast	Dec-22	Mar-24	Stage 2 - Model Build & Verification	PC27	RPS	Shel fish Compliance & River WFD Model	AFBI and Longline Environmental (LLE)		Stage 4 - Interventions	NMC Pollutograph Output	12
DA0011	Moss Road East DA	62					IEM06	Strangford	Jun-23	Jan-25	No Planned Study	No Planned Study	No Planned	Shel fish Compliance & River WFD Model	Intertek		Stage 2 - Model Build & Verification	TBC	
DA0012	Drumhirk DA	22					IEM06	Strangford	Jun-23	Jan-25	No Planned Study	No Planned Study	No Planned	Shel fish Compliance & River WFD Model	Intertek		Stage 2 - Model Build & Verification	TBC	
DA0013	Blackstaff DA	34	Apr-24	Apr-24			IEM06	Strangford	Jun-23	Jan-25	Rurals Model Build	Rurals	Atkins	Shel fish Compliance & River WFD Model	Intertek		Stage 2 - Model Build & Verification	NMC Pollutograph Output	
DA0014	Greyabbey DA	1,208	Aug-18	Aug-18			IEM06	Strangford	Jun-23	Jan-25	Stage 4 - Interventions	Historical	Wood	Shel fish Compliance & River WFD Model	Intertek		Stage 2 - Model Build & Verification	LTV DAP Pollutograph Output	2
DA0015	Ballylone Road DA	0					IEM06	Strangford	Jun-23	Jan-25	No Planned Study	No Planned Study	No Planned	Shel fish Compliance & River WFD Model	Intertek		Stage 2 - Model Build & Verification	Excluded DA	
DA0016	Kinnegar DA	95,657	Apr-21	Apr-21	Dec-22	Jan-24	IEM11	Belfast	Dec-22	Mar-24	Stage 4 - Interventions	PC21 link	Atkins	Shellfish Compliance & River WFD Model	AFBI and Longline Environmental (LLE)		Stage 4 - Interventions	IEM DAP Pollutograph Output	89
DA0017	Ballyrickard DA	42,952	Sep-19	Sep-19	Nov-21	Apr-23	IEM06	Strangford	Jun-23	Jan-25	DAP Stage 4 Handover Complete	PC21 link	Atkins	Shellfish Compliance & River WFD Model	Intertek		Stage 2 - Model Build & Verification	LTV DAP Pollutograph Output	63
DA0019	Lisowen DA	52					IEM06	Strangford	Jun-23	Jan-25	No Planned Study	No Planned Study	No Planned	Shel fish Compliance & River WFD Model	Intertek		Stage 2 - Model Build & Verification	TBC	1
DA0020	Braeside Cottages DA	19					IEM13	Ballinderry	Sep-23	Jun-24	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	
DA0021	Ballygarvigan DA	37					Not in IEM Catchment	Not in IEM Catchment			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0022	Newcastle DA	17,445	May-22	Aug-23	Mar-23	Jun-23	IEM03	Newcastle	Dec-22	Nov-23	DAP Stage 4 Handover Complete	PC21 link	RPS	Bathing Water & River WFD Model	Intertek	Newcastle IEM Project elements uploade	Stage 4 - Interventions	IEM DAP Pollutograph Output	17
DA0023	Glassdrummond Saintfield DA	22					IEM06	Strangford	Jun-23	Jan-25	No Planned Study	No Planned Study	No Planned	Shel fish Compliance & River WFD Model	Intertek		Stage 2 - Model Build & Verification	TBC	
DA0024	Craignasasonagh DA	15					IEM11	Belfast	Dec-22	Mar-24	No Planned Study	No Planned Study	No Planned	Shellfish Compliance & River WFD Model	AFBI and Longline Environmental (LLE)		Stage 4 - Interventions	NMC Pollutograph Output	
DA0025	The Demesne DA	5					IEM06	Strangford	Jun-23	Jan-25	No Planned Study	No Planned Study	No Planned	Shel fish Compliance & River WFD Model	Intertek		Stage 2 - Model Build & Verification	TBC	
DA0026	Saintfield DA	5,422	Jun-20	Jun-20	Jun-23	Apr-24	IEM06	Strangford	Jun-23	Jan-25	Stage 4 - Interventions		Atkins	Shellfish Compliance & River WFD Model	Intertek		Stage 2 - Model Build & Verification	LTV DAP Pollutograph Output	9
DA0027	Killyleagh DA	6,792	Aug-20	Aug-20	Jan-21	Jan-21	IEM06	Strangford	Jun-23	Jan-25	DAP Stage 5 Complete	Historical	WSP	Shel fish Compliance & River WFD Model	Intertek		Stage 2 - Model Build & Verification	LTV DAP Pollutograph Output	13
DA0028	Ballytrim DA	33					IEM06	Strangford	Jun-23	Jan-25	No Planned Study	No Planned Study	No Planned	Shel fish Compliance & River WFD Model	Intertek		Stage 2 - Model Build & Verification	TBC	
DA0029	Bar Hall DA	24					IEM06	Strangford	Jun-23	Jan-25	No Planned Study	No Planned Study	No Planned	Shel fish Compliance & River WFD Model	Intertek		Stage 2 - Model Build & Verification	TBC	
DA0030	Clanabogan South DA	16					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	1
DA0031	Drumaness DA	2,649	Apr-14	Apr-14	Nov-23	Nov-23	IEM06	Strangford	Jun-23	Jan-25	DAP not issued yet	PC27	TBC	Shel fish Compliance & River WFD Model	Intertek		Stage 2 - Model Build & Verification	NMC Pollutograph Output	10
DA0032	Annacloy DA	891	Jul-23	Jul-23			IEM06	Strangford	Jun-23	Jan-25	Rurals Model Build Handover Complete	Rurals	Atkins	Shel fish Compliance & River WFD Model	Intertek		Stage 2 - Model Build & Verification	NMC Pollutograph Output	4
DA0033	Strangford DA	1,231	Sep-21	Sep-21			IEM06	Strangford	Jun-23	Jan-25	Stage 2 - Handover Complete		RPS	Shel fish Compliance & River WFD Model	Intertek		Stage 2 - Model Build & Verification	NMC Pollutograph Output	6
DA0034	Annalong DA	3,387	Jun-20	Jun-20	Nov-23	Nov-23	IEM08	Carlingford	Dec-22	Feb-24	Stage 5 - Modelling Support	Historical	Atkins	Shel fish Compliance & River WFD Model	Intertek	Carlingford IEM Project elements uploade	Stage 4 - Interventions	IEM DAP Pollutograph Output	4
DA0035	Mullaghglass Lisburn DA	197	Apr-24	Apr-24			IEM11	Belfast	Dec-22	Mar-24	Rurals Model Build	Rurals	Atkins	Shel fish Compliance & River WFD Model	AFBI and Longline Environmental (LLE)		Stage 4 - Interventions	NMC Pollutograph Output	1
DA0036	Dundrod DA	210	Oct-22	Oct-22			IEM21	Crumlin			Rurals Model Build Handover Complete	Rurals	RPS	No Planned Study	No Planned Study		No Planned Study	No Planned Study	2
DA0037	Edenderry DA	376	Jul-23	Jul-23			IEM11	Belfast	Dec-22	Mar-24	Rurals Model Build Handover Complete	Historical Rurals	Atkins	Shel fish Compliance & River WFD Model	AFBI and Longline Environmental (LLE)		Stage 4 - Interventions	NMC Pollutograph Output	2
DA0040	Ballynahinch DA	8,192	Mar-22	Mar-22	Apr-23	Mar-23	IEM06	Strangford	Jun-23	Jan-25	Stage 5 - Modelling Support	PC21 link	Atkins	Shel fish Compliance & River WFD Model	Intertek		Stage 2 - Model Build & Verification	LTV DAP Pollutograph Output	11
DA0044	Ferris Bay DA	12					IEM02	Larne	Mar-23	Nov-23	No Planned Study	No Planned Study	No Planned	Bathing Water & She lfish Compliance Model	Intertek	DA physically within IEM boundary howev	Stage 4 - Interventions	NMC Pollutograph Output	
DA0046	Stoneyford DA	707	Apr-24	Apr-24			IEM17	Upper Bann			Rurals Model Build	Rurals	Atkins	No Planned Study	No Planned Study		No Planned Study	No Planned Study	1
DA0047	Ballynadolly DA	140	Oct-22	Oct-22			IEM17	Upper Bann			Rurals Model Build Handover Complete	Rurals	RPS	No Planned Study	No Planned Study		No Planned Study	No Planned Study	1
DA0048	Glenavy Road DA	6					IEM11	Belfast	Dec-22	Mar-24	No Planned Study	No Planned Study	No Planned	Shellfish Compliance & River WFD Model	AFBI and Longline Environmental (LLE)		Stage 4 - Interventions	NMC Pollutograph Output	
DA0049	Ravernet DA	642					IEM11	Belfast	Dec-22	Mar-24	No Planned Study	No Planned Study	No Planned	Shellfish Compliance & River WFD Model	AFBI and Longline Environmental (LLE)		Stage 4 - Interventions	NMC Pollutograph Output	1
DA0051	Annahilt DA	1,847	Apr-22	Mar-23	Aug-23		IEM06	Strangford	Jun-23	Jan-25	Stage 3 - Risks	PC27	Atkins	Shel fish Compliance & River WFD Model	Intertek		Stage 2 - Model Build & Verification	IEM DAP Pollutograph Output	5
DA0052	Ballymiscaw Road DA	9					IEM06	Strangford	Jun-23	Jan-25	No Planned Study	No Planned Study	No Planned	Shel fish Compliance & River WFD Model	Intertek		Stage 2 - Model Build & Verification	TBC	
DA0053	Ballykeel Cottages DA	16					IEM06	Strangford	Jun-23	Jan-25	No Planned Study	No Planned Study	No Planned	Shel fish Compliance & River WFD Model	Intertek		Stage 2 - Model Build & Verification	TBC	
DA0054	North Down DA (Millisle)		Sep-21	Sep-21	Sep-22	Dec-23	IEM07	Ards			DAP Stage 4 Handover Complete	PC27	Atkins	Bathing Water & River WFD Model	Paused		Paused	TBC	
DA0054	North Down DA (Donaghadee)		Sep-21	Jan-23	Sep-22	Apr-24	IEM07	Ards			Stage 3 - Risks	PC27	Atkins	Bathing Water & River WFD Model	Paused		Paused	TBC	
DA0054	North Down DA (Bangor)	63,970	Sep-21	Sep-21	Sep-22	Dec-23	IEM07	Ards			Enhanced DAP	PC27	Atkins	Bathing Water & River WFD Model	Paused		Paused	TBC	72
DA0057	Kilkeel DA	15,183	Apr-21	Apr-21	Jan-22	Jan-22	IEM08	Carlingford	Dec-22	Feb-24	Stage 5 - Modelling Support	PC21 link	Atkins	Shel fish Compliance & River WFD Model	Intertek	Carlingford IEM Project elements uploade	Stage 4 - Interventions	IEM DAP Pollutograph Output	17
DA0060	Glasdrumman Annalong DA	344	Jul-23	Jul-23			IEM03	Newcastle	Dec-22	Nov-23	Rurals Model Build Handover Complete	Rurals	Atkins	Bathing Water & River WFD Model	Intertek	DA physically within IEM boundary howev	Stage 4 - Interventions	NMC Pollutograph Output	3
DA0063	Dundrum DA	2,295	Dec-18	Dec-18	Jan-23	Nov-23	IEM01	Dundrum	Dec-22	Dec-22	Stage 5 - Modelling Support	PC21 link	Atkins	Shel fish Water Compliance Model	AFBI	Not standard DAP	Stage 5 - Modelling Support	LTV DAP Pollutograph Output	9
DA0064	Ballykinler DA	1,655			Nov-23	Nov-23	IEM01	Dundrum	Dec-22	Dec-22		PC27	No Planned	Shel fish Water Compliance Model	AFBI		Stage 5 - Modelling Support	TBC	1
DA0066	Clough DA	1,136	Jun-22	Feb-23	Jun-23		IEM01	Dundrum	Dec-22	Dec-22	Stage 2 - Handover Complete	PC27	WSP	Shel fish Water Compliance Model	AFBI	Fast track Options	Stage 5 - Modelling Support	LTV DAP Pollutograph Output	5
DA0067	Killough DA	1,283	Sep-21	Sep-21			IEM06	Strangford	Jun-23	Jan-25	Stage 2 - Handover Complete		RPS	Shel fish Compliance & River WFD Model	Intertek		Stage 2 - Model Build & Verification	LTV DAP Pollutograph Output	4
DA0068	Coneyisland DA	104	Jul-23	Jul-23			IEM06	Strangford	Jun-23	Jan-25	Rurals Model Build Handover Complete	Historical Rurals	Atkins	Shel fish Compliance & River WFD Model	Intertek		Stage 2 - Model Build & Verification	NMC Pollutograph Output	1
DA0069	Ardglass DA	2,441	Apr-22	Oct-22	Jun-23		IEM06	Strangford	Jun-23	Jan-25	Stage 4 - Interventions	PC21 link	Atkins	Shel fish Compliance & River WFD Model	Intertek		Stage 2 - Model Build & Verification	IEM DAP Pollutograph Output	7
DA0070	Ballyhoran DA	690	Jul-23	Jul-23			IEM06	Strangford	Jun-23	Jan-25	Rurals Model Build Handover Complete	Rurals	Atkins	Shel fish Compliance & River WFD Model	Intertek		Stage 2 - Model Build & Verification	NMC Pollutograph Output	3
DA0073	Loughinisland DA	205					IEM01	Dundrum	Dec-22	Dec-22	No Planned Study	No Planned Study	No Planned	Shel fish Water Compliance Model	AFBI		Stage 5 - Modelling Support	TBC	1
DA0075	Bells Hill DA	19	Oct-22	Oct-22			IEM06	Strangford	Jun-23	Jan-25	Rurals Model Build Handover Complete	Rurals	RPS	Shel fish Compliance & River WFD Model	Intertek		Stage 2 - Model Build & Verification	TBC	
DA0076	Moneyreagh DA	2,384			Nov-23	Nov-23	IEM06	Strangford	Jun-23	Jan-25	Stage 2 - Handover Complete	Historical	Atkins	Shel fish Compliance & River WFD Model	Intertek		Stage 2 - Model Build & Verification	IEM DAP Pollutograph Output	6
DA0077	Drumlough DA	116	Oct-22	Oct-22			IEM11	Belfast	Dec-22	Mar-24	Rurals Model Build Handover Complete	Rurals	RPS	Shel fish Compliance & River WFD Model	AFBI and Longline Environmental (LLE)		Stage 4 - Interventions	NMC Pollutograph Output	1
DA0078	Dromara DA	1,525	Sep-23	Jul-23	Sep-24		IEM11	Belfast	Dec-22	Mar-24	Rurals Model Build Handover Complete	PC27	Atkins	Shel fish Compliance & River WFD Model	AFBI and Longline Environmental (LLE)		Stage 4 - Interventions	NMC Pollutograph Output	4
DA0079	Loughries DA	280	Jul-23	Jul-23			IEM06	Strangford	Jun-23	Jan-25	Rurals Model Build Handover Complete	Historical Rurals	Atkins	Shel fish Compliance & River WFD Model	Intertek		Stage 2 - Model Build & Verification	NMC Pollutograph Output	2
DA0080	Drumbeg DA	1,877	Jan-23		Jan-24		IEM11	Belfast	Dec-22	Mar-24	DAP not issued yet	PC27	TBC	Shel fish Compliance & River WFD Model	AFBI and Longline Environmental (LLE)		Stage 4 - Interventions	NMC Pollutograph Output	4
DA0081	Seahill DA	6,863			Mar-22	Mar-22	IEM11	Belfast	Dec-22	Mar-24	DAP Stage 4 Handover Complete		Atkins	Shel fish Compliance & River WFD Model	AFBI and Longline Environmental (LLE)		Stage 4 - Interventions	IEM DAP Pollutograph Output	18
DA0082	Cloughey DA	1,563	Sep-21	Sep-21			IEM06	Strangford	Jun-23	Jan-25	Stage 2 - Handover Complete		RPS	Shel fish Compliance & River WFD Model	Intertek		Stage 2 - Model Build & Verification	NMC Pollutograph Output	5
DA0085	Carrowdore DA	0	Jul-23	Jul-23			IEM07	Ards			Rurals Model Build Handover Complete	Historical Rurals	Atkins	Bathing Water & River WFD Model	Paused		Paused	TBC	
DA0086	Ballywalter DA	0	Dec-21	Dec-21	Aug-22	Jan-23	IEM07	Ards			DAP Stage 4 Handover Complete	PC21 link	RPS	Bathing Water & River WFD Model	Paused		Paused	TBC	
DA0087	Ballyha bert DA	5,905	Jan-24		Jan-25		IEM06	Strangford	Jun-23	Jan-25	DAP not issued yet	PC27	TBC	Shel fish Compliance & River WFD Model	Intertek		Stage 2 - Model Build & Verification	NMC Pollutograph Output	16
DA0088	Portaferry DA	3,687	Nov-21	Nov-21	Aug-22	Jan-23	IEM06	Strangford	Jun-23	Jan-25	DAP Stage 4 Handover Complete	PC21 link	RPS	Shel fish Compliance & River WFD Model	Intertek		Stage 2 - Model Build & Verification	IEM DAP Pollutograph Output	3
DA0089	Craigaroddan Road DA	8					Not in IEM Catchment	Not in IEM Catchment			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0090	Kearney DA	54					Not in IEM Catchment	Not in IEM Catchment			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0091	Ballycranbeg DA	362	Jul-23	Jul-23			IEM06	Strangford	Jun-23	Jan-25	Rurals Model Build Handover Complete	Rurals	Atkins	Shel fish Compliance & River WFD Model	Intertek		Stage 2 - Model Build & Verification	Excluded DA	3
DA0092	Kircubbin DA	1,717	Nov-21	Nov-21	Feb-23	Apr-23	IEM06	Strangford	Jun-23	Jan-25	Stage 5 - Modelling Support	PC21 link	Atkins	Shel fish Compliance & River WFD Model	Intertek		Stage 2 - Model Build & Verification	IEM DAP Pollutograph Output	6
DA0094	Killinchy DA	3,102	Dec-20	Dec-20	Oct-21	Dec-21	IEM06	Strangford	Jun-23	Jan-25	DAP Stage 4 Handover Complete	PC21 link	Atkins	Shel fish Compliance & River WFD Model	Intertek		Stage 2 - Model Build & Verification	LTV DAP Pollutograph Output	8
DA0095	Ballygowan DA	3,542					IEM06	Strangford	Jun-23	Jan-25	Stage 2 - Handover Complete	Historical	Atkins	Shellfish Compliance & River WFD Model	Intertek		Stage 2 - Model Build & Verification	IEM DAP Pollutograph Output	4
DA0097	Ringneill DA	745	Jul-23	Jul-23			IEM06	Strangford	Jun-23	Jan-25	Rurals Model Build Handover Complete	Historical Rurals	Atkins	Shel fish Compliance & River WFD Model	Intertek		Stage 2 - Model Build & Verification	NMC Pollutograph Output	4
DA0099	Murdocks Lane DA	16					IEM11	Belfast	Dec-22	Mar-24	No Planned Study	No Planned Study	No Planned	Shellfish Compliance & River WFD Model	AFBI and Longline Environmental (LLE)		Stage 4 - Interventions	NMC Pollutograph Output	
DA0100	Movilla Road DA	8					IEM06	Strangford	Jun-23	Jan-25	No Planned Study	No Planned Study	No Planned	Shel fish Compliance & River WFD Model	Intertek		Stage 2 - Model Build & Verification	Excluded DA	
DA0101	Ballywhiskin DA	0	Jul-23	Jul-23			IEM07	Ards			Rurals Model Build Handover Complete	Historical Rurals	Atkins	Bathing Water & River WFD Model	Paused		Paused	TBC	
DA0102	Woburn Road DA	10					IEM07	Ards			No Planned Study	No Planned Study	No Planned	Bathing Water & River WFD Model	Paused		Paused	TBC	
DA0103	Portaferry Road DA	5					IEM06	Strangford	Jun-23	Jan-25	No Planned Study	No Planned Study	No Planned	Shel fish Compliance & River WFD Model	Intertek		Stage 2 - Model Build & Verification	Excluded DA	
DA0104	Ballyrainey Road DA	5					IEM06	Strangford	Jun-23	Jan-25	No Planned Study	No Planned Study	No Planned	Shel fish Compliance & River WFD Model	Intertek		Stage 2 - Model Build & Verification	Excluded DA	
DA0105	Whitechurch Road DA	12					IEM07	Ards			No Planned Study	No Planned Study	No Planned	Bathing Water & River WFD Model	Paused		Paused	TBC	

A			B		C		D				E			F		G	H	I	J
DAP Information			Model Build Report Dates		Needs and Options Report Dates		Integrated Environmental Modelling (IEM) Dates				DAP Information			IEM Information			IEM Information		
DAP reference (linked to Table 40)	DAP Name	Population Served	Baseline Model Build Report Completion Date	Current Actual or Projected Model Build Report Completion Date	Baseline Needs and Options Report Completion Date	Current Actual or Projected Needs and Options Report Completion Date	IEM reference (linked to Table 40)	IEM Name	Baseline IEM Completion Date	Current Actual or Projected IEM Completion Date	Current Stage of DAP	DAP Model	DAP Consultant	IEM Model	IEM Consultant		Current Stage of IEM	DAP - IEM linkage	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
DAP_ID	DAP_Name	DAP_Pop	DAP_MBR_BL_Sub_Date	DAP_MBR_CAP_Sub_Date	DAP_NOR_BL_Sub_Date	DAP_NOR_CAP_Sub_Date	IEM_ID	IEM_Name	IEM_BL_Sub_Date	EM_CAP_Sub_Date	Select DAP Stage from Dropdown	DAP Model	DAP Consultant	Select IEM Model from Dropdown	IEM Consultant	Comments	Select IEM Stage from Dropdown	Select IEM linkage from Dropdown	No. of Assets
DA0106	Three Sisters DA	14					IEM07	Ards			No Planned Study	No Planned Study	No Planned	Bathing Water & River WFD Model	Paused		Paused	TBC	
DA0107	Ballycreely Road DA	14					IEM06	Strangford	Jun-23	Jan-25	No Planned Study	No Planned Study	No Planned	Shel fish Compliance & River WFD Model	Intertek		Stage 2 - Model Build & Verification	Excluded DA	
DA0108	Tullyhubbert Road DA	11					IEM06	Strangford	Jun-23	Jan-25	No Planned Study	No Planned Study	No Planned	Shel fish Compliance & River WFD Model	Intertek		Stage 2 - Model Build & Verification	Excluded DA	
DA0109	Inishargy Road Church DA	25					IEM07	Ards			No Planned Study	No Planned Study	No Planned	Bathing Water & River WFD Model	Paused		Paused	TBC	
DA0110	Tubber Road DA	11					IEM06	Strangford	Jun-23	Jan-25	No Planned Study	No Planned Study	No Planned	Shel fish Compliance & River WFD Model	Intertek		Stage 2 - Model Build & Verification	Excluded DA	
DA0111	Ballygowan Road Ballygowan North DA	5					IEM06	Strangford	Jun-23	Jan-25	No Planned Study	No Planned Study	No Planned	Shel fish Compliance & River WFD Model	Intertek		Stage 2 - Model Build & Verification	Excluded DA	
DA0112	Ravara Road DA	19					IEM06	Strangford	Jun-23	Jan-25	No Planned Study	No Planned Study	No Planned	Shel fish Compliance & River WFD Model	Intertek		Stage 2 - Model Build & Verification	Excluded DA	
DA0113	Ballycairn DA	41					IEM11	Belfast	Dec-22	Mar-24	No Planned Study	No Planned Study	No Planned	Shel fish Compliance & River WFD Model	AFBI and Longline Environmental (LLE)		Stage 4 - Interventions	NMC Pollutograph Output	
DA0114	Kilmood DA	194					IEM06	Strangford	Jun-23	Jan-25	No Planned Study	No Planned Study	No Planned	Shel fish Compliance & River WFD Model	Intertek		Stage 2 - Model Build & Verification	NMC Pollutograph Output	2
DA0115	Lisbarnet Road DA	10					IEM06	Strangford	Jun-23	Jan-25	No Planned Study	No Planned Study	No Planned	Shel fish Compliance & River WFD Model	Intertek		Stage 2 - Model Build & Verification	Excluded DA	
DA0117	Drumreagh Road DA	5					IEM06	Strangford	Jun-23	Jan-25	No Planned Study	No Planned Study	No Planned	Shel fish Compliance & River WFD Model	Intertek		Stage 2 - Model Build & Verification	Excluded DA	
DA0118	Craigarusky Road Kil inchy DA	8					IEM06	Strangford	Jun-23	Jan-25	No Planned Study	No Planned Study	No Planned	Shel fish Compliance & River WFD Model	Intertek		Stage 2 - Model Build & Verification	Excluded DA	
DA0119	Ballyfrench Road DA	5					IEM07	Ards			No Planned Study	No Planned Study	No Planned	Bathing Water & River WFD Model	Paused		Paused	TBC	
DA0120	Ballyeasborough Road DA	10					IEM06	Strangford	Jun-23	Jan-25	No Planned Study	No Planned Study	No Planned	Shel fish Compliance & River WFD Model	Intertek		Stage 2 - Model Build & Verification	NMC Pollutograph Output	
DA0121	Kilcarn Road DA	0					IEM06	Strangford	Jun-23	Jan-25	No Planned Study	No Planned Study	No Planned	Shel fish Compliance & River WFD Model	Intertek		Stage 2 - Model Build & Verification	Excluded DA	
DA0122	Carricknaveagh DA	11					IEM11	Belfast	Dec-22	Mar-24	No Planned Study	No Planned Study	No Planned	Shel fish Compliance & River WFD Model	AFBI and Longline Environmental (LLE)		Stage 4 - Interventions	NMC Pollutograph Output	
DA0123	Drumaroad DA	218	Oct-22	Oct-22			IEM01	Dundrum	Dec-22	Dec-22	Rurals Model Build Handover Complete	Rurals	RPS	Shel fish Water Compliance Model	AFBI		Stage 5 - Modelling Support	TBC	2
DA0124	Ballybarnes Road DA	5					IEM06	Strangford	Jun-23	Jan-25	No Planned Study	No Planned Study	No Planned	Shel fish Compliance & River WFD Model	Intertek		Stage 2 - Model Build & Verification	Excluded DA	
DA0126	Inishargy Road East DA	5					IEM06	Strangford	Jun-23	Jan-25	No Planned Study	No Planned Study	No Planned	Shel fish Compliance & River WFD Model	Intertek		Stage 2 - Model Build & Verification	Excluded DA	
DA0127	Quarter Road DA	8					IEM06	Strangford	Jun-23	Jan-25	No Planned Study	No Planned Study	No Planned	Shel fish Compliance & River WFD Model	Intertek		Stage 2 - Model Build & Verification	Excluded DA	
DA0128	Main Road Cloughey DA	13					IEM07	Ards			No Planned Study	No Planned Study	No Planned	Bathing Water & River WFD Model	Paused		Paused	TBC	
DA0129	Ballydrain Road DA	7					IEM06	Strangford	Jun-23	Jan-25	No Planned Study	No Planned Study	No Planned	Shel fish Compliance & River WFD Model	Intertek		Stage 2 - Model Build & Verification	Excluded DA	
DA0130	Belleek Newry DA	461	Jul-23	Jul-23			IEM17	Upper Bann			Rurals Model Build Handover Complete	Rurals	Atkins	No Planned Study	No Planned Study		No Planned Study	No Planned Study	2
DA0131	Lisburn DA	74,336	Jan-23	Nov-23	May-24	Nov-24	IEM11	Belfast	Dec-22	Mar-24	Stage 3 - Risks	PC27	Atkins	Shel fish Compliance & River WFD Model	AFBI and Longline Environmental (LLE)		Stage 4 - Interventions	NMC Pollutograph Output	43
DA0132	Newtownbreda DA	37,050					IEM11	Belfast	Dec-22	Mar-24	Stage 5 - Modelling Support	Historical	Atkins	Shellfish Compliance & River WFD Model	AFBI and Longline Environmental (LLE)		Stage 4 - Interventions	NMC Pollutograph Output	16
DA0134	Annsborough DA	6,274	Jun-22	Jan-23	Oct-22	Sep-23	IEM01	Dundrum	Dec-22	Dec-22	Stage 5 - Modelling Support	PC21 link	WSP	Shel fish Water Compliance Model	AFBI		Stage 5 - Modelling Support	LTV DAP Pollutograph Output	9
DA0135	St James DA	187					IEM11	Belfast	Dec-22	Mar-24	No Planned Study	No Planned Study	No Planned	Shellfish Compliance & River WFD Model	AFBI and Longline Environmental (LLE)		Stage 4 - Interventions	NMC Pollutograph Output	
DA0136	Bresagh DA	33	Oct-22	Oct-22			IEM11	Belfast	Dec-22	Mar-24	Rurals Model Build Handover Complete	Rurals	RPS	Shel fish Compliance & River WFD Model	AFBI and Longline Environmental (LLE)		Stage 4 - Interventions	NMC Pollutograph Output	1
DA0137	Downpatrick DA	18,968	Apr-20	Apr-20	Apr-21	Apr-21	IEM06	Strangford	Jun-23	Jan-25	Stage 5 - Modelling Support	PC21 link	WSP	Shel fish Compliance & River WFD Model	Intertek		Stage 2 - Model Build & Verification	LTV DAP Pollutograph Output	19
DA0138	Donard View DA	27					IEM06	Strangford	Jun-23	Jan-25	No Planned Study	No Planned Study	No Planned	Shel fish Compliance & River WFD Model	Intertek		Stage 2 - Model Build & Verification	Excluded DA	
DA0139	Lessans DA	18					IEM06	Strangford	Jun-23	Jan-25	No Planned Study	No Planned Study	No Planned	Shel fish Compliance & River WFD Model	Intertek		Stage 2 - Model Build & Verification	Excluded DA	
DA0140	Thorney Glen DA	46					IEM06	Strangford	Jun-23	Jan-25	No Planned Study	No Planned Study	No Planned	Shel fish Compliance & River WFD Model	Intertek		Stage 2 - Model Build & Verification	Excluded DA	1
DA0141	Carrigenagh DA	11					IEM03	Newcastle	Dec-22	Nov-23	No Planned Study	No Planned Study	No Planned	Bathing Water & River WFD Model	Intertek	DA physically within IEM boundary howev	Stage 4 - Interventions	NMC Pollutograph Output	
DA0142	Ballygowan Road Comber DA	14					IEM06	Strangford	Jun-23	Jan-25	No Planned Study	No Planned Study	No Planned	Shel fish Compliance & River WFD Model	Intertek		Stage 2 - Model Build & Verification	Excluded DA	
DA0143	Clattering Ford DA	7					IEM06	Strangford	Jun-23	Jan-25	No Planned Study	No Planned Study	No Planned	Shel fish Compliance & River WFD Model	Intertek		Stage 2 - Model Build & Verification	Excluded DA	
DA0145	Banbridge DA	24,331	Dec-22	Jun-24	Dec-23		IEM17	Upper Bann			Stage 2 - Model Build & Verification	PC27	WSP	No Planned Study	No Planned Study	No Planned Study	No Planned Study	No Planned Study	24
DA0147	Ballymoyer DA	57					IEM17	Upper Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0148	Craigavon DA (Portadown)						IEM17	Upper Bann			Model Maintenance	Historical	WSP	No Planned Study	No Planned Study	Lurgan - In Progress	No Planned Study	No Planned Study	
DA0148	Craigavon DA (Lurgan)		Nov-22	May-24	Nov-23		IEM11	Belfast	Dec-22	Mar-24	Stage 2 - Model Build & Verification	PC21 link	RPS (Lurgar	Shellfish Compliance & River WFD Model	AFBI and Longline Environmental (LL	Lurgan - In Progress	Stage 4 - Interventions	NMC Pollutograph Output	
DA0148	Craigavon DA (Craigavon)	120,089					IEM17	Upper Bann			Stage 1 - Catchment Planning		WSP	No Planned Study	No Planned Study	Planning	No Planned Study	No Planned Study	69
DA0149	Bankside Shinney New DA	59					IEM08	Carlingford	Dec-22	Feb-24	No Planned Study	No Planned Study	No Planned	Shel fish Compliance & River WFD Model	Intertek	DA physically within IEM boundary however set up as a non-modelled catchment inpu	Excluded DA		1
DA0150	Beech Hill Newry DA	54					IEM08	Carlingford	Dec-22	Feb-24	No Planned Study	No Planned Study	No Planned	Shel fish Compliance & River WFD Model	Intertek	DA physically within IEM boundary however set up as a non-modelled catchment inpu	Excluded DA		1
DA0151	Ashfield Dromore DA	34					IEM11	Belfast	Dec-22	Mar-24	No Planned Study	No Planned Study	No Planned	Shellfish Compliance & River WFD Model	AFBI and Longline Environmental (LLE)		Stage 4 - Interventions	NMC Pollutograph Output	
DA0153	Aghalee DA	1,228	Oct-22	Oct-22			IEM17	Upper Bann			Rurals Model Build Handover Complete	PC27	RPS	No Planned Study	No Planned Study		No Planned Study	No Planned Study	3
DA0154	Balleevy DA	11					IEM17	Upper Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0155	Charlestown DA	76					IEM17	Upper Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	1
DA0156	Clarehill Road DA	11					IEM11	Belfast	Dec-22	Mar-24	No Planned Study	No Planned Study	No Planned	Shellfish Compliance & River WFD Model	AFBI and Longline Environmental (LLE)		Stage 4 - Interventions	NMC Pollutograph Output	
DA0157	Blacksku l DA	431	Oct-22	Oct-22			IEM11	Belfast	Dec-22	Mar-24	Rurals Model Build Handover Complete	Rurals	RPS	Shel fish Compliance & River WFD Model	AFBI and Longline Environmental (LLE)		Stage 4 - Interventions	NMC Pollutograph Output	3
DA0158	Meigh DA	1,203	Apr-24	Apr-24			Not in IEM Catchment	Not in IEM Catchment			Rurals Model Build	Rurals	Atkins	No Planned Study	No Planned Study		No Planned Study	No Planned Study	3
DA0159	Waringstown DA	6,978	Jul-22	Dec-22	Aug-23	Feb-24	IEM11	Belfast	Dec-22	Mar-24	Stage 4 - Interventions	PC21 link	Atkins	Shel fish Compliance & River WFD Model	AFBI and Longline Environmental (LLE)		Stage 4 - Interventions	NMC Pollutograph Output	14
DA0160	Knocknarea DA	15					IEM11	Belfast	Dec-22	Mar-24	No Planned Study	No Planned Study	No Planned	Shellfish Compliance & River WFD Model	AFBI and Longline Environmental (LLE)		Stage 4 - Interventions	NMC Pollutograph Output	
DA0161	Parkstown DA	15					IEM17	Upper Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0163	Monte th Annaclone DA	268	Apr-24	Apr-24			IEM17	Upper Bann			Rurals Model Build	Rurals	Atkins	No Planned Study	No Planned Study		No Planned Study	No Planned Study	3
DA0165	Armagh Road Derrywilligan DA	9					IEM08	Carlingford	Dec-22	Feb-24	No Planned Study	No Planned Study	No Planned	Shel fish Compliance & River WFD Model	Intertek	DA physically within IEM boundary however set up as a non-modelled catchment inpu	Excluded DA		
DA0167	Armagh Road Glassdrummond DA	6					IEM08	Carlingford	Dec-22	Feb-24	No Planned Study	No Planned Study	No Planned	Shel fish Compliance & River WFD Model	Intertek	DA physically within IEM boundary however set up as a non-modelled catchment inpu	Excluded DA		
DA0170	Acton DA	84	Oct-22	Oct-22			IEM08	Carlingford			Rurals Model Build Handover Complete	Rurals	RPS	Shel fish Compliance & River WFD Model	Intertek	DA physically within IEM boundary however set up as a non-modelled catchment inpu	Excluded DA		1
DA0171	Aghagallon DA	1,420	Oct-22	Oct-22			IEM17	Upper Bann			Rurals Model Build Handover Complete	PC27	RPS	No Planned Study	No Planned Study		No Planned Study	No Planned Study	4
DA0172	Anville Crescent DA	41					IEM17	Upper Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0173	Robinsonstown DA	532	Jul-23	Jul-23			IEM17	Upper Bann			Rurals Model Build Handover Complete	Historical Rurals	Atkins	No Planned Study	No Planned Study		No Planned Study	No Planned Study	2
DA0174	Armagh Road Church DA	9					IEM08	Carlingford	Dec-22	Feb-24	No Planned Study	No Planned Study	No Planned	Shel fish Compliance & River WFD Model	Intertek	DA physically within IEM boundary however set up as a non-modelled catchment inpu	Excluded DA		1
DA0175	Goragh Road DA	0					IEM08	Carlingford	Dec-22	Feb-24	No Planned Study	No Planned Study	No Planned	Shel fish Compliance & River WFD Model	Intertek	DA physically within IEM boundary however set up as a non-modelled catchment inpu	Excluded DA		
DA0176	Whitegate Road Ba lyroney DA	11					IEM17	Upper Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0177	Manse Road Ballyward DA	14					IEM17	Upper Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0178	Mount Ida Rd Dromore DA	5					IEM11	Belfast	Dec-22	Mar-24	No Planned Study	No Planned Study	No Planned	Shellfish Compliance & River WFD Model	AFBI and Longline Environmental (LLE)		Stage 4 - Interventions	NMC Pollutograph Output	
DA0179	Rathfriland Road Droma DA	0					IEM11	Belfast	Dec-22	Mar-24	No Planned Study	No Planned Study	No Planned	Shellfish Compliance & River WFD Model	AFBI and Longline Environmental (LLE)		Stage 4 - Interventions	NMC Pollutograph Output	
DA0180	Ringsend Road Banbridge DA	8					IEM17	Upper Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study	No Planned Study	No Planned Study	No Planned Study	
DA0181	Lisnagade Road DA	14					IEM08	Carlingford	Dec-22	Feb-24	No Planned Study	No Planned Study	No Planned	Shel fish Compliance & River WFD Model	Intertek	DA physically within IEM boundary however set up as a non-modelled catchment inpu	Excluded DA		1
DA0182	The Skeagh Moneyslane DA	5					IEM17	Upper Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0183	Diamond Road Dromore DA	14					IEM11	Belfast	Dec-22	Mar-24	No Planned Study	No Planned Study	No Planned	Shellfish Compliance & River WFD Model	AFBI and Longline Environmental (LLE)		Stage 4 - Interventions	NMC Pollutograph Output	1
DA0184	Sentry Box Road DA	3					IEM17	Upper Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0185	Katesbridge DA	131	Oct-22	Oct-22			IEM17	Upper Bann			Rurals Model Build Handover Complete	Rurals	RPS	No Planned Study	No Planned Study		No Planned Study	No Planned Study	3
DA0187	Ballykelly Craigavon DA	20					IEM11	Belfast	Dec-22	Mar-24	No Planned Study	No Planned Study	No Planned	Shellfish Compliance & River WFD Model	AFBI and Longline Environmental (LLE)		Stage 4 - Interventions	NMC Pollutograph Output	
DA0188	Lake View DA	0					IEM08	Carlingford	Dec-22	Feb-24	No Planned Study	No Planned Study	No Planned	Shel fish Compliance & River WFD Model	Intertek	DA physically within IEM boundary however set up as a non-modelled catchment inpu	Excluded DA		
DA0189	Portadown Road Tandragee DA	8					IEM17	Upper Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0190	Rosevale Road DA	10					IEM08	Carlingford	Dec-22	Feb-24	No Planned Study	No Planned Study	No Planned	Shel fish Compliance & River WFD Model	Intertek	DA physically within IEM boundary however set up as a non-modelled catchment inpu	Excluded DA		
DA0191	Liscorran Rd DA	6					IEM17	Upper Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0192	Ballyvannon Road DA	0					IEM17	Upper Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0193	Dougan Place DA	30					IEM11	Belfast	Dec-22	Mar-24	No Planned Study	No Planned Study	No Planned	Shellfish Compliance & River WFD Model	AFBI and Longline Environmental (LLE)		Stage 4 - Interventions	NMC Pollutograph Output	1
DA0194	Ballyward DA	3					IEM17	Upper Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	1
DA0195	Warrenpoint DA	16,234	Jan-19		Apr-23		IEM08	Carlingford	Dec-22	Feb-24	Stage 2 - Model Build & Verification	PC21 link	RPS	Shel fish Compliance & River WFD Model	Intertek	Carlingford IEM Project elements uploade	Stage 4 - Interventions	IEM DAP Pollutograph Output	15
DA0197	Katesbridge Road DA	15					IEM17	Upper Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0198	Castlevennon DA	6					IEM17	Upper Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0199	Aughnava log DA	33					IEM17	Upper Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	1
DA0200	Ballybrick Road DA	16					IEM17	Upper Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0201	Ballymore Road Tandragee DA	13					IEM17	Upper Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0203	Ballyvarley Banbridge DA	16					IEM17	Upper Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study	DA physically within IEM boundary howev	No Planned Study	No Planned Study	
DA0204	Knock Terrace Rathfriland DA	33					IEM08	Carlingford	Dec-22	Feb-24	No Planned Study	No Planned Study	No Planned	Shel fish Compliance & River WFD Model	Intertek	DA physically within IEM boundary however set up as a non-modelled catchment inpu	Excluded DA		1
DA0205	Castlevennon Rd DA	3					IEM17	Upper Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0206	Dromara Road Ballyroney DA	8					IEM17	Upper Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	

A			B		C		D				E			F		G	H	I	J
DAP Information			Model Build Report Dates		Needs and Options Report Dates		Integrated Environmental Modelling (IEM) Dates				DAP Information			IEM Information			IEM Information		
DAP reference (linked to Table 40)	DAP Name	Population Served	Baseline Model Build Report Completion Date	Current Actual or Projected Model Build Report Completion Date	Baseline Needs and Options Report Completion Date	Current Actual or Projected Needs and Options Report Completion Date	IEM reference (linked to Table 40)	IEM Name	Baseline IEM Completion Date	Current Actual or Projected IEM Completion Date	Current Stage of DAP	DAP Model	DAP Consultant	IEM Model	IEM Consultant		Current Stage of IEM	DAP - IEM linkage	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
DAP_ID	DAP_Name	DAP_Pop	DAP_MBR_BL_Sub_Date	DAP_MBR_CAP_Sub_Date	DAP_NOR_BL_Sub_Date	DAP_NOR_CAP_Sub_Date	IEM_ID	IEM_Name	IEM_BL_Sub_Date	EM_CAP_Sub_Date	Select DAP Stage from Dropdown	DAP Model	DAP Consultant	Select IEM Model from Dropdown	IEM Consultant	Comments	Select IEM Stage from Dropdown	Select IEM linkage from Dropdown	No. of Assets
DA0207	Drumaran Rd Gilford DA	8					IEM17	Upper Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0208	Drumgooland Road Kilnamurry DA	9					IEM17	Upper Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0209	Glenhead Rd Moneyslane DA	11					IEM17	Upper Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0210	Hillhead Rd Katesbridge DA	6					IEM17	Upper Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0211	Jennys Lane DA	15					IEM11	Belfast	Dec-22	Mar-24	No Planned Study	No Planned Study	No Planned	Shellfish Compliance & River WFD Model	AFBI and Longline Environmental (LLE)		Stage 4 - Interventions	NMC Pollutograph Output	
DA0212	Ballyroney Road Banbridge DA	16					IEM17	Upper Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0214	Castor Bay DA	35	Oct-22	Oct-22			IEM17	Upper Bann			Rurals Model Build Handover Complete	Rurals	RPS	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0215	Drumilly Belleek DA	59					IEM17	Upper Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	1
DA0216	Glasdrumman Crossmaglen DA	195	Apr-24	Apr-24			Not in IEM Catchment	Not in IEM Catchment			Rurals Model Build	Rurals	Atkins	No Planned Study	No Planned Study		No Planned Study	No Planned Study	4
DA0217	Maytown Road Bessbrook DA	6					IEM08	Carlingford	Dec-22	Feb-24	No Planned Study	No Planned Study	No Planned	Shel fish Compliance & River WFD Model	Intertek	DA physically within IEM boundary however set up as a non-modelled catchment inpu	Excluded DA		1
DA0225	Hazelbank DA	23					IEM17	Upper Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0230	Newry DA	93,088	Feb-21	Feb-21	Nov-21	Nov-22	IEM08	Carlingford	Dec-22	Feb-24	Stage 5 - Modelling Support	PC21 link	Atkins	Shel fish Compliance & River WFD Model	Intertek	Carlingford IEM Project elements uploade	Stage 4 - Interventions	IEM DAP Pollutograph Output	31
DA0232	Carnally Road Silverbridge DA	12					Not in IEM Catchment	Not in IEM Catchment			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0233	Upper Ballinderry DA	311					IEM17	Upper Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	2
DA0234	Knocknagore DA	17					IEM17	Upper Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0235	Mullahead Road Tandragee DA	8					IEM17	Upper Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0237	Cross Lane North DA	79					IEM11	Belfast	Dec-22	Mar-24	No Planned Study	No Planned Study	No Planned	Shellfish Compliance & River WFD Model	AFBI and Longline Environmental (LLE)		Stage 4 - Interventions	NMC Pollutograph Output	1
DA0239	Altnamackan DA	29					Not in IEM Catchment	Not in IEM Catchment			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0240	Dorsy DA	49					Not in IEM Catchment	Not in IEM Catchment			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	1
DA0241	Carrig Place DA	18					Not in IEM Catchment	Not in IEM Catchment			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0242	Derrymore DA	349	Jul-23	Jul-23			IEM17	Upper Bann			Rurals Model Build Handover Complete	Rurals	Atkins	No Planned Study	No Planned Study		No Planned Study	No Planned Study	1
DA0243	Carneyhough Newry DA	6					IEM08	Carlingford	Dec-22	Feb-24	No Planned Study	No Planned Study	No Planned	Shel fish Compliance & River WFD Model	Intertek	DA physically within IEM boundary however set up as a non-modelled catchment inpu	Excluded DA		
DA0244	Carran Hill Crossmaglen DA	11					Not in IEM Catchment	Not in IEM Catchment			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0245	Carrickrovaddy DA	26					Not in IEM Catchment	Not in IEM Catchment			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	2
DA0246	Concession Road DA	17					Not in IEM Catchment	Not in IEM Catchment			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0247	Corrinure Mountnorris DA	6					IEM17	Upper Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0248	Aughanduff Cottages DA	15					Not in IEM Catchment	Not in IEM Catchment			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0249	ONe ll Terrace DA	31					Not in IEM Catchment	Not in IEM Catchment			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0250	Ballsmill DA	39					Not in IEM Catchment	Not in IEM Catchment			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0251	Mountnorris DA	989	Jul-23	Jul-23			IEM17	Upper Bann			Rurals Model Build Handover Complete	Historical Rurals	Atkins	No Planned Study	No Planned Study		No Planned Study	No Planned Study	5
DA0252	McCandless Terrace DA	34					IEM11	Belfast	Dec-22	Mar-24	No Planned Study	No Planned Study	No Planned	Shellfish Compliance & River WFD Model	AFBI and Longline Environmental (LLE)		Stage 4 - Interventions	NMC Pollutograph Output	1
DA0254	Soldierstown DA	31					IEM17	Upper Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	2
DA0255	Mi ltown Maghery DA	111					Not in IEM Catchment	Not in IEM Catchment			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	2
DA0256	Moira DA	6,541	Jan-24		Jan-24		IEM11	Belfast	Dec-22	Mar-24	Stage 1 - Catchment Planning		WSP	Shel fish Compliance & River WFD Model	AFBI and Longline Environmental (LLE)		Stage 4 - Interventions	NMC Pollutograph Output	6
DA0257	St Patrick Vi la DA	25					IEM08	Carlingford	Dec-22	Feb-24	No Planned Study	No Planned Study	No Planned	Shel fish Compliance & River WFD Model	Intertek	DA physically within IEM boundary however set up as a non-modelled catchment inpu	Excluded DA		
DA0258	Moneyslane DA	396	Jul-23	Jul-23			IEM17	Upper Bann			Rurals Model Build Handover Complete	Historical Rurals	Atkins	No Planned Study	No Planned Study		No Planned Study	No Planned Study	2
DA0259	Tandragee DA	10,708	Feb-23	Mar-24	Feb-24		IEM17	Upper Bann			Stage 2 - Model Build & Verification	PC27	RPS	No Planned Study	No Planned Study		No Planned Study	No Planned Study	17
DA0261	Mossvale Terrace DA	44					IEM11	Belfast	Dec-22	Mar-24	No Planned Study	No Planned Study	No Planned	Shellfish Compliance & River WFD Model	AFBI and Longline Environmental (LLE)		Stage 4 - Interventions	NMC Pollutograph Output	1
DA0262	Mountain View DA	38					IEM08	Carlingford	Dec-22	Feb-24	No Planned Study	No Planned Study	No Planned	Shel fish Compliance & River WFD Model	Intertek	DA physically within IEM boundary however set up as a non-modelled catchment inpu	Excluded DA		
DA0264	Tartaraghan DA	55					IEM17	Upper Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	1
DA0266	Mullaghglass Newry DA	189					IEM08	Carlingford	Dec-22	Feb-24	No Planned Study	No Planned Study	No Planned	Shel fish Compliance & River WFD Model	Intertek	DA physically within IEM boundary however set up as a non-modelled catchment inpu	Excluded DA		2
DA0267	Saval More Cottages DA	19					IEM08	Carlingford	Dec-22	Feb-24	No Planned Study	No Planned Study	No Planned	Shel fish Compliance & River WFD Model	Intertek	DA physically within IEM boundary however set up as a non-modelled catchment inpu	Excluded DA		2
DA0268	Waringsford Dromore DA	243					IEM11	Belfast	Dec-22	Mar-24	No Planned Study	No Planned Study	No Planned	Shellfish Compliance & River WFD Model	AFBI and Longline Environmental (LLE)		Stage 4 - Interventions	NMC Pollutograph Output	1
DA0271	Mullaghmore DA	115					IEM17	Upper Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	1
DA0272	Newtownhamilton DA	1,569	Jan-23		Jan-24		Not in IEM Catchment	Not in IEM Catchment			DAP not issued yet	PC27	TBC	No Planned Study	No Planned Study		No Planned Study	No Planned Study	5
DA0274	Poyntzpass DA	971	Jul-23	Jul-23			IEM08	Carlingford	Dec-22	Feb-24	Rurals Model Build Handover Complete	Historical Rurals	Atkins	Shel fish Compliance & River WFD Model	Intertek	DA physically within IEM boundary however set up as a non-modelled catchment inpu	Excluded DA		1
DA0275	Rathfriland DA	3,974	Jan-24		Dec-24		IEM08	Carlingford	Dec-22	Feb-24	DAP not issued yet	PC27	TBC	Shel fish Compliance & River WFD Model	Intertek	DA physically within IEM boundary however set up as a non-modelled catchment inpu	Excluded DA		8
DA0277	Lisnalea Mountnorris DA	71					IEM17	Upper Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	2
DA0278	Derrytrasna DA	451	Jul-23	Jul-23			IEM17	Upper Bann			Rurals Model Build Handover Complete	Rurals	Atkins	No Planned Study	No Planned Study		No Planned Study	No Planned Study	1
DA0279	Gilford DA	2,747	Jan-24		Jan-25		IEM17	Upper Bann			Stage 1 - Catchment Planning	PC27	WSP	No Planned Study	No Planned Study		No Planned Study	No Planned Study	6
DA0280	Fourmile Donaghmore DA	19					IEM08	Carlingford	Dec-22	Feb-24	No Planned Study	No Planned Study	No Planned	Shel fish Compliance & River WFD Model	Intertek	DA physically within IEM boundary however set up as a non-modelled catchment inpu	Excluded DA		
DA0281	Forkhi l DA	1,829	Jan-24		Dec-24		Not in IEM Catchment	Not in IEM Catchment			DAP not issued yet	PC27	TBC	No Planned Study	No Planned Study		No Planned Study	No Planned Study	6
DA0282	Feumore DA	98	Oct-22	Oct-22			IEM17	Upper Bann			Rurals Model Build Handover Complete	Rurals	RPS	No Planned Study	No Planned Study		No Planned Study	No Planned Study	2
DA0283	Edentiroory Ashfield DA	10					IEM11	Belfast	Dec-22	Mar-24	No Planned Study	No Planned Study	No Planned	Shellfish Compliance & River WFD Model	AFBI and Longline Environmental (LLE)		Stage 4 - Interventions	NMC Pollutograph Output	
DA0284	Drumintee DA	353					Not in IEM Catchment	Not in IEM Catchment			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	1
DA0285	Drumnaferry DA	182					IEM11	Belfast	Dec-22	Mar-24	No Planned Study	No Planned Study	No Planned	Shellfish Compliance & River WFD Model	AFBI and Longline Environmental (LLE)		Stage 4 - Interventions	NMC Pollutograph Output	2
DA0286	Droneh ll Road Banbridge DA	6					IEM17	Upper Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0287	Dromore Down DA	8,175	Jul-22	Jul-22	Feb-23	Feb-24	IEM11	Belfast	Dec-22	Mar-24	DAP Stage 4 Handover Complete	PC21 link	Atkins	Shel fish Compliance & River WFD Model	AFBI and Longline Environmental (LLE)		Stage 4 - Interventions	NMC Pollutograph Output	11
DA0289	Abbacy Road DA	32					IEM06	Strangford	Jun-23	Jan-25	No Planned Study	No Planned Study	No Planned	Shel fish Compliance & River WFD Model	Intertek		Stage 2 - Model Build & Verification	Excluded DA	1
DA0291	Derryhale DA	1,070	Jan-24		Dec-24		IEM05	Blackwater	Oct-23	Apr-25	DAP not issued yet	PC27	TBC	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	8
DA0292	Derryanvil DA	11					IEM17	Upper Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0293	Cullyhanna DA	507					Not in IEM Catchment	Not in IEM Catchment			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	1
DA0294	Cullav lle DA	323					Not in IEM Catchment	Not in IEM Catchment			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	2
DA0296	Crossmaglen DA	3,315	Sep-23		Sep-24		Not in IEM Catchment	Not in IEM Catchment			DAP not issued yet	PC27	TBC	No Planned Study	No Planned Study		No Planned Study	No Planned Study	8
DA0297	Corgary Cottages DA	19					IEM08	Carlingford	Dec-22	Feb-24	No Planned Study	No Planned Study	No Planned	Shel fish Compliance & River WFD Model	Intertek	DA physically within IEM boundary however set up as a non-modelled catchment inpu	Excluded DA		
DA0298	Corbracky Road DA	11					IEM17	Upper Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0299	Diviny DA	17					IEM05	Blackwater	Oct-23	Apr-25	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	2
DA0300	Corbet Banbridge DA	139					IEM17	Upper Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	1
DA0301	Dree Hill Road DA	6					IEM11	Belfast	Dec-22	Mar-24	No Planned Study	No Planned Study	No Planned	Shellfish Compliance & River WFD Model	AFBI and Longline Environmental (LLE)		Stage 4 - Interventions	NMC Pollutograph Output	
DA0302	Kinallen DA	1,308	Jan-24		Dec-24		IEM11	Belfast	Dec-22	Mar-24	DAP not issued yet	PC27	TBC	Shel fish Compliance & River WFD Model	AFBI and Longline Environmental (LLE)		Stage 4 - Interventions	NMC Pollutograph Output	1
DA0303	Marlacoo DA	29					IEM17	Upper Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0304	Maglion Terrace DA	34					IEM08	Carlingford	Dec-22	Feb-24	No Planned Study	No Planned Study	No Planned	Shel fish Compliance & River WFD Model	Intertek	DA physically within IEM boundary however set up as a non-modelled catchment inpu	Excluded DA		
DA0305	Maghery DA	276	Jul-23	Jul-23			IEM05	Blackwater	Oct-23	Apr-25	Rurals Model Build Handover Complete	Rurals	Atkins	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	2
DA0307	Maghaberry DA	4,606	Sep-22	Mar-24	Sep-23		IEM11	Belfast	Dec-22	Mar-24	Stage 2 - Model Build & Verification	PC27	RPS	Shel fish Compliance & River WFD Model	AFBI and Longline Environmental (LLE)		Stage 4 - Interventions	NMC Pollutograph Output	4
DA0308	Lurganville DA	96					IEM11	Belfast	Dec-22	Mar-24	No Planned Study	No Planned Study	No Planned	Shellfish Compliance & River WFD Model	AFBI and Longline Environmental (LLE)		Stage 4 - Interventions	NMC Pollutograph Output	1
DA0309	Lurganare DA	427	Jul-23	Jul-23			IEM08	Carlingford	Dec-22	Feb-24	Rurals Model Build Handover Complete	Historical Rurals	Atkins	Shel fish Compliance & River WFD Model	Intertek	DA physically within IEM boundary however set up as a non-modelled catchment inpu	Excluded DA		2
DA0310	Lower Ballinderry DA	1,046					IEM17	Upper Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	2
DA0311	Locard Park DA	138	Apr-24	Apr-24			IEM17	Upper Bann			Rurals Model Build	Rurals	Atkins	No Planned Study	No Planned Study		No Planned Study	No Planned Study	2
DA0312	Legatirriff DA	25					IEM17	Upper Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0314	Laurelvale Road DA	11					IEM17	Upper Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	1
DA0315	Glenavy DA	2,735	Sep-23		Sep-24		IEM17	Upper Bann			Stage 1 - Catchment Planning		WSP	No Planned Study	No Planned Study		No Planned Study	No Planned Study	7
DA0316	Killysavan Poyntzpas DA	25					IEM08	Carlingford	Dec-22	Feb-24	No Planned Study	No Planned Study	No Planned	Shel fish Compliance & River WFD Model	Intertek	DA physically within IEM boundary however set up as a non-modelled catchment inpu	Excluded DA		
DA0317	Kilcoo DA	564					IEM17	Upper Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	3
DA0318	Glen Vi las DA	221					IEM08	Carlingford	Dec-22	Feb-24	No Planned Study	No Planned Study	No Planned	Shel fish Compliance & River WFD Model	Intertek	DA physically within IEM boundary however set up as a non-modelled catchment inpu	Excluded DA		1
DA0319	Jonesborough DA	693	Jul-23	Jul-23			Not in IEM Catchment	Not in IEM Catchment			Rurals Model Build Handover Complete	Historical Rurals	Atkins	No Planned Study	No Planned Study		No Planned Study	No Planned Study	1
DA0320	Jockeys Brae DA	0					IEM08	Carlingford	Dec-22	Feb-24	No Planned Study	No Planned Study	No Planned	Shel fish Compliance & River WFD Model	Intertek	DA physically within IEM boundary however set up as a non-modelled catchment inpu	Excluded DA		
DA0321	Jerrettspass DA	40					IEM08	Carlingford	Dec-22	Feb-24	No Planned Study	No Planned Study	No Planned	Shel fish Compliance & River WFD Model	Intertek	DA physically within IEM boundary however set up as a non-modelled catchment inpu	Excluded DA		
DA0323	Hilltown DA	2,483	Nov-22	Nov-23	Nov-23		IEM17	Upper Bann			Stage 2 - Handover Complete	PC27	WSP	No Planned Study	No Planned Study	Fast track Options	No Planned Study	No Planned Study	4
DA0324	Greenan Loughbrickland DA	14					IEM08	Carlingford	Dec-22	Feb-24	No Planned Study	No Planned Study	No Planned	Shel fish Compliance & River WFD Model	Intertek	DA physically within IEM boundary however set up as a non-modelled catchment inpu	Excluded DA		

A			B		C		D				E			F		G	H	I	J
DAP Information			Model Build Report Dates		Needs and Options Report Dates		Integrated Environmental Modelling (IEM) Dates				DAP Information			IEM Information			IEM Information		
DAP reference (linked to Table 40)	DAP Name	Population Served	Baseline Model Build Report Completion Date	Current Actual or Projected Model Build Report Completion Date	Baseline Needs and Options Report Completion Date	Current Actual or Projected Needs and Options Report Completion Date	IEM reference (linked to Table 40)	IEM Name	Baseline IEM Completion Date	Current Actual or Projected IEM Completion Date	Current Stage of DAP	DAP Model	DAP Consultant	IEM Model	IEM Consultant		Current Stage of IEM	DAP - IEM linkage	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
DAP_ID	DAP_Name	DAP_Pop	DAP_MBR_BL_Sub_Date	DAP_MBR_CAP_Sub_Date	DAP_NOR_BL_Sub_Date	DAP_NOR_CAP_Sub_Date	IEM_ID	IEM_Name	IEM_BL_Sub_Date	EM_CAP_Sub_Date	Select DAP Stage from Dropdown	DAP Model	DAP Consultant	Select IEM Model from Dropdown	IEM Consultant	Comments	Select IEM Stage from Dropdown	Select IEM linkage from Dropdown	No. of Assets
DA0326	Lawrencetown DA	1,030					IEM17	Upper Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	2
DA0327	Larne DA	27,609	Jun-14	Jun-14	Mar-21	May-23	IEM02	Larne	Mar-23	Nov-23	Enhanced DAP	PC21 link	WSP	Bathing Water & Shellfish Compliance Model	Intertek	Larne IEM Project elements uploaded to	Stage 4 - Interventions	LTV DAP Pollutograph Output	41
DA0328	Roughfort DA	477	Apr-24	Apr-24			IEM19	Six Mile Water			Rurals Model Build	Rurals	Atkins	No Planned Study	No Planned Study		No Planned Study	No Planned Study	2
DA0329	Ballynashee Road DA	11					IEM19	Six Mile Water			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0330	Mounthill DA	215	Apr-24	Apr-24			IEM02	Larne	Mar-23	Nov-23	Rurals Model Build	Rurals	Atkins	Bathing Water & Shellfish Compliance Model	Intertek	DA physically within IEM boundary howev	Stage 4 - Interventions	NMC Pollutograph Output	2
DA0331	Glenoe DA	199					IEM02	Larne	Mar-23	Nov-23	No Planned Study	No Planned Study	No Planned	Bathing Water & Shellfish Compliance Model	Intertek	DA physically within IEM boundary howev	Stage 4 - Interventions	NMC Pollutograph Output	1
DA0332	Ballymacward Primary School DA	0					IEM17	Upper Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0333	Belfast Road Kilwaughter DA	19					IEM02	Larne	Mar-23	Nov-23	No Planned Study	No Planned Study	No Planned	Bathing Water & Shellfish Compliance Model	Intertek	DA physically within IEM boundary howev	Stage 4 - Interventions	NMC Pollutograph Output	
DA0334	Seven Mile Straight Loanends DA	12					Not in IEM Catchment	Not in IEM Catchment			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0335	Seven Mile Straight Roseh ll West DA	6					IEM19	Six Mile Water			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0336	Seven Mile Straight Roseh ll Central DA	6					IEM19	Six Mile Water			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0337	Seven Mile Straight Roseh ll East DA	6					IEM19	Six Mile Water			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0338	Shaneoguestown Road DA	10					IEM19	Six Mile Water			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0339	Magheramorne DA	80	Apr-24	Apr-24			IEM02	Larne	Mar-23	Nov-23	Rurals Model Build	Rurals	Atkins	Bathing Water & Shellfish Compliance Model	Intertek	DA physically within IEM boundary howev	Stage 4 - Interventions	NMC Pollutograph Output	1
DA0340	Ballycorr Grove DA	34					IEM19	Six Mile Water			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0341	Hollybank Road South DA	6					IEM19	Six Mile Water			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0342	Cogry Road DA	5					IEM19	Six Mile Water			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0343	Hollybank Road North DA	14					IEM19	Six Mile Water			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0344	Ballybentragh Road DA	10					IEM19	Six Mile Water			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0346	Ballyutoag DA	6					IEM19	Six Mile Water			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0347	Rickamore Road DA	8					IEM19	Six Mile Water			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0348	Ballydonaghy Cottages DA	12					IEM21	Crumlin			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0349	Largy Cottages DA	34					IEM21	Crumlin			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0350	Gortnagallon Cottages DA	14					Not in IEM Catchment	Not in IEM Catchment			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0351	Manse Road Crumlin DA	6					IEM21	Crumlin			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0352	Cherryvalley Road DA	8					IEM21	Crumlin			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0353	Diamond Cottages DA	29					Not in IEM Catchment	Not in IEM Catchment			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0354	Drennans Road DA	6					Not in IEM Catchment	Not in IEM Catchment			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0355	Oldstone Terrace DA	23					Not in IEM Catchment	Not in IEM Catchment			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0356	Farranflugh DA	6					Not in IEM Catchment	Not in IEM Catchment			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0357	Lisnevenagh DA	41					Not in IEM Catchment	Not in IEM Catchment			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0358	Dorisland DA	3					IEM11	Belfast	Dec-22	Mar-24	No Planned Study	No Planned Study	No Planned	Shellfish Compliance & River WFD Model	AFBI and Longline Environmental (LLE)		Stage 4 - Interventions	NMC Pollutograph Output	
DA0362	Upper Ballygelagh Road DA	18					IEM06	Strangford	Jun-23	Jan-25	No Planned Study	No Planned Study	No Planned	Shel fish Compliance & River WFD Model	Intertek		Stage 2 - Model Build & Verification	Excluded DA	
DA0363	Ballyclare DA	20,179	Apr-22	Nov-22	Jun-23	Feb-24	IEM19	Six Mile Water			DAP Stage 4 Handover Complete	PC21 link	Atkins	No Planned Study	No Planned Study		No Planned Study	No Planned Study	16
DA0364	Antrim DA	71,050	May-21	May-21	Sep-22	Sep-23	IEM14	Maine	Sep-23	Aug-24	DAP Stage 4 Handover Complete	PC21 link	WSP	River WFD Model	RPS		Stage 2 - Model Build & Verification	IEM DAP Pollutograph Output	39
DA0365	Windmill Road North DA	3					IEM07	Ards			No Planned Study	No Planned Study	No Planned	Bathing Water & River WFD Model	Paused		Paused	TBC	
DA0366	Windmill Road South DA	13					IEM07	Ards			No Planned Study	No Planned Study	No Planned	Bathing Water & River WFD Model	Paused		Paused	TBC	
DA0367	Newcastle Road Kearney DA	11					Not in IEM Catchment	Not in IEM Catchment			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0368	Ballygalget Road DA	5					Not in IEM Catchment	Not in IEM Catchment			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0369	Lisbane Road DA	5					IEM06	Strangford	Jun-23	Jan-25	No Planned Study	No Planned Study	No Planned	Shel fish Compliance & River WFD Model	Intertek		Stage 2 - Model Build & Verification	Excluded DA	
DA0370	Glen Cottages DA	15					IEM11	Belfast	Dec-22	Mar-24	No Planned Study	No Planned Study	No Planned	Shel fish Compliance & River WFD Model	AFBI and Longline Environmental (LLE)		Stage 4 - Interventions	NMC Pollutograph Output	
DA0371	Killaughey Road DA	5					IEM07	Ards			No Planned Study	No Planned Study	No Planned	Bathing Water & River WFD Model	Paused		Paused	TBC	
DA0372	Ballycrochan Road DA	6					IEM11	Belfast	Dec-22	Mar-24	No Planned Study	No Planned Study	No Planned	Shel fish Compliance & River WFD Model	AFBI and Longline Environmental (LLE)		Stage 4 - Interventions	NMC Pollutograph Output	
DA0373	Carrowdore Road DA	5					IEM06	Strangford	Jun-23	Jan-25	No Planned Study	No Planned Study	No Planned	Shel fish Compliance & River WFD Model	Intertek		Stage 2 - Model Build & Verification	Excluded DA	
DA0374	New Road DA	2					IEM07	Ards			No Planned Study	No Planned Study	No Planned	Bathing Water & River WFD Model	Paused		Paused	TBC	
DA0375	Parsonage Road DA	16					IEM06	Strangford	Jun-23	Jan-25	No Planned Study	No Planned Study	No Planned	Shel fish Compliance & River WFD Model	Intertek		Stage 2 - Model Build & Verification	Excluded DA	
DA0376	Inishargy Road West DA	12					IEM06	Strangford	Jun-23	Jan-25	No Planned Study	No Planned Study	No Planned	Shel fish Compliance & River WFD Model	Intertek		Stage 2 - Model Build & Verification	Excluded DA	
DA0377	Cargan DA	696	Jul-23	Jul-23			IEM14	Maine	Sep-23	Aug-24	Rurals Model Build Handover Complete	Rurals	Atkins	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	4
DA0378	Newtown-Crommelin DA	175					IEM14	Maine	Sep-23	Aug-24	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	1
DA0379	Ballymarlagh DA	35					IEM14	Maine	Sep-23	Aug-24	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	
DA0380	Craigywarren DA	154					IEM14	Maine	Sep-23	Aug-24	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	
DA0381	Martinstown DA	519					IEM14	Maine	Sep-23	Aug-24	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	2
DA0382	Racavan DA	37					IEM14	Maine	Sep-23	Aug-24	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	
DA0383	Skerry View DA	34					IEM14	Maine	Sep-23	Aug-24	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	
DA0384	Buckna DA	35					IEM14	Maine	Sep-23	Aug-24	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	
DA0385	Carnlough Road DA	6					IEM14	Maine	Sep-23	Aug-24	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	
DA0386	Ballymena DA	79,472	Jan-21	Jan-21	Aug-22	Dec-22	IEM14	Maine	Sep-23	Aug-24	Enhanced DAP	PC21 link	Atkins	River WFD Model	RPS		Stage 2 - Model Build & Verification	LTV DAP Pollutograph Output	59
DA0387	Railway View DA	18					IEM14	Maine	Sep-23	Aug-24	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	
DA0388	Straid Ballymena DA	69					IEM14	Maine	Sep-23	Aug-24	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	1
DA0389	Procklis DA	92					IEM14	Maine	Sep-23	Aug-24	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	1
DA0390	Tullygrawley DA	38					IEM14	Maine	Sep-23	Aug-24	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	
DA0391	Killygore DA	52	Jul-23	Jul-23			IEM14	Maine	Sep-23	Aug-24	Rurals Model Build Handover Complete	Historical Rurals	Atkins	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	
DA0392	Glarryford DA	97					IEM14	Maine	Sep-23	Aug-24	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	2
DA0393	Clogh DA	398	Jul-23	Jul-23			IEM14	Maine	Sep-23	Aug-24	Rurals Model Build Handover Complete	Historical Rurals	Atkins	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	2
DA0394	Duneany DA	74					IEM14	Maine	Sep-23	Aug-24	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	2
DA0395	Crankill DA	5					IEM14	Maine	Sep-23	Aug-24	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	
DA0396	Cloghmills DA	1,828	Jan-23		Jan-24		IEM14	Maine	Sep-23	Aug-24	DAP not issued yet	PC27	TBC	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	3
DA0397	Grange Taylorstown DA	642	Jul-23	Jul-23			IEM16	Lower Bann			Rurals Model Build Handover Complete	Historical Rurals	Atkins	No Planned Study	No Planned Study		No Planned Study	No Planned Study	2
DA0398	Crosskeys Road DA	6					IEM16	Lower Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0399	Portglenone DA	3,778	Sep-22	Mar-24	Sep-23		IEM16	Lower Bann			Stage 2 - Model Build & Verification	PC27	RPS	No Planned Study	No Planned Study		No Planned Study	No Planned Study	5
DA0400	Ballynafie DA	98					IEM16	Lower Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0401	Rasharkin DA	1,753	Jan-24		Dec-24		IEM16	Lower Bann			DAP not issued yet	PC27	TBC	No Planned Study	No Planned Study		No Planned Study	No Planned Study	3
DA0402	Aughnacleagh DA	35					IEM16	Lower Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0403	Gortereghy DA	30					IEM16	Lower Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0404	Tullymore Road DA	12					IEM14	Maine	Sep-23	Aug-24	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	
DA0405	Munie DA	38					Not in IEM Catchment	Not in IEM Catchment			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0406	Aughagash DA	17					Not in IEM Catchment	Not in IEM Catchment			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0407	Carnalbanagh DA	62					Not in IEM Catchment	Not in IEM Catchment			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0408	Glenarm DA	3,575	Jun-22	Jun-22	Nov-23	Nov-23	IEM20	Camlough			Stage 2 - Handover Complete	PC27	AECOM	No Planned Study	No Planned Study		No Planned Study	No Planned Study	7
DA0410	Creggan Road DA	8					Not in IEM Catchment	Not in IEM Catchment			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0411	Staffordstown Road DA	6					Not in IEM Catchment	Not in IEM Catchment			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0412	Coolsythe Road DA	8					IEM14	Maine	Sep-23	Aug-24	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	
DA0413	Connaught Road DA	15					IEM14	Maine	Sep-23	Aug-24	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	
DA0414	Moneynick Road West DA	16					IEM16	Lower Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0415	Moneynick Road East DA	10					Not in IEM Catchment	Not in IEM Catchment			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0416	Cranfield DA	155					IEM16	Lower Bann			No Planned Study	Historical	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	1
DA0417	Moneyglass DA	131					Not in IEM Catchment	Not in IEM Catchment			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0418	Glasmullen DA	8					IEM20	Carnlough			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0419	Knocknatavanna DA	31					Not in IEM Catchment	Not in IEM Catchment			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	

A			B		C		D				E			F		G	H	I	J
DAP Information			Model Build Report Dates		Needs and Options Report Dates		Integrated Environmental Modelling (IEM) Dates				DAP Information			IEM Information			IEM Information		
DAP reference (linked to Table 40)	DAP Name	Population Served	Baseline Model Build Report Completion Date	Current Actual or Projected Model Build Report Completion Date	Baseline Needs and Options Report Completion Date	Current Actual or Projected Needs and Options Report Completion Date	IEM reference (linked to Table 40)	IEM Name	Baseline IEM Completion Date	Current Actual or Projected IEM Completion Date	Current Stage of DAP	DAP Model	DAP Consultant	IEM Model	IEM Consultant		Current Stage of IEM	DAP - IEM linkage	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
DAP_ID	DAP_Name	DAP_Pop	DAP_MBR_BL_Sub_Date	DAP_MBR_CAP_Sub_Date	DAP_NOR_BL_Sub_Date	DAP_NOR_CAP_Sub_Date	IEM_ID	IEM_Name	IEM_BL_Sub_Date	EM_CAP_Sub_Date	Select DAP Stage from Dropdown	DAP Model	DAP Consultant	Select IEM Model from Dropdown	IEM Consultant	Comments	Select IEM Stage from Dropdown	Select IEM linkage from Dropdown	No. of Assets
DA0420	Cushendall DA	4,320					IEM20	Carnlough			DAP not issued yet	Historical	TBC	No Planned Study	No Planned Study		No Planned Study	No Planned Study	8
DA0421	Tromra DA	36					Not in IEM Catchment	Not in IEM Catchment			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0422	Ballycleagh DA	3					Not in IEM Catchment	Not in IEM Catchment			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0423	Cushleake Road DA	11					Not in IEM Catchment	Not in IEM Catchment			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0424	Ford Road DA	2					IEM16	Lower Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0425	Ballynease Road DA	9					IEM16	Lower Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0426	Carnbeg DA	5					IEM14	Maine	Sep-23	Aug-24	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	
DA0427	Oaklands DA	3					IEM14	Maine	Sep-23	Aug-24	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	
DA0429	Dungonnell Works DA	3					IEM14	Maine	Sep-23	Aug-24	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	
DA0430	Cushedun DA	727	Jul-23	Jul-23			Not in IEM Catchment	Not in IEM Catchment			Rurals Model Build Handover Complete	Rurals	Atkins	No Planned Study	No Planned Study		No Planned Study	No Planned Study	2
DA0431	Grove Park DA	26					IEM14	Maine	Sep-23	Aug-24	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	
DA0432	Mullaghboy Road DA	6					IEM16	Lower Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0433	Ballynease DA	19					IEM16	Lower Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0434	Magherafelt Road DA	9					IEM18	Moyola	Oct-23	Sep-24	No Planned Study	No Planned Study	No Planned	River WFD Model	Intertek	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	
DA0436	Killyneese Road DA	6					IEM18	Moyola	Oct-23	Sep-24	No Planned Study	No Planned Study	No Planned	River WFD Model	Intertek	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	
DA0437	Magherafelt DA	19,090	Nov-21	Nov-21	Apr-23	May-23	IEM18	Moyola	Oct-23	Sep-24	DAP Stage 4 Handover Complete	PC21 link	Atkins	River WFD Model	Intertek		Stage 2 - Model Build & Verification	IEM DAP Pollutograph Output	20
DA0438	Rocktown DA	20					IEM16	Lower Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0439	Bellshill Road North DA	6					IEM18	Moyola	Oct-23	Sep-24	No Planned Study	No Planned Study	No Planned	River WFD Model	Intertek	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	
DA0440	Bellshill Road South DA	6					IEM18	Moyola	Oct-23	Sep-24	No Planned Study	No Planned Study	No Planned	River WFD Model	Intertek	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	
DA0441	Hillhead Road DA	13					IEM16	Lower Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0442	Bellaghy DA	1,804	Nov-21	Nov-21	Sep-22	Feb-23	IEM16	Lower Bann			DAP Stage 4 Handover Complete	PC21 link	Atkins	No Planned Study	No Planned Study		No Planned Study	No Planned Study	4
DA0443	Creagh DA	2,361	Nov-22	May-24	Nov-23		IEM18	Moyola	Oct-23	Sep-24	Stage 2 - Model Build & Verification	PC27	WSP	River WFD Model	Intertek	Fast track Options July 23 - DAP not yet	Stage 2 - Model Build & Verification	NMC Pollutograph Output	7
DA0444	Deerpark Road DA	25					IEM16	Lower Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0445	Drummullan DA	210	Oct-22	Oct-22			IEM13	Ballinderry	Sep-23	Jun-24	Rurals Model Build Handover Complete	Rurals	RPS	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	2
DA0446	Killygonlan DA	1,156	Jul-23	Jul-23			Not in IEM Catchment	Not in IEM Catchment			Rurals Model Build Handover Complete	Historical Rurals	Atkins	No Planned Study	No Planned Study		No Planned Study	No Planned Study	5
DA0447	Cluntoe Richardson DA	612	Jul-23	Jul-23			Not in IEM Catchment	Not in IEM Catchment			Rurals Model Build Handover Complete	Rurals	Atkins	No Planned Study	No Planned Study		No Planned Study	No Planned Study	3
DA0448	Carnan DA	65					Not in IEM Catchment	Not in IEM Catchment			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	1
DA0449	Pomeroy DA	1,250	Jul-23	Jul-23			IEM13	Ballinderry	Sep-23	Jun-24	Rurals Model Build Handover Complete	Historical Rurals	Atkins	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	3
DA0450	Dunloy DA	1,578	Jan-23		Jan-24		IEM14	Maine	Sep-23	Aug-24	DAP not issued yet	PC27	TBC	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	3
DA0451	Loughguile DA	912	Jul-23	Jul-23			IEM10	Bush			Rurals Model Build Handover Complete	Rurals	Atkins	No Planned Study	No Planned Study		No Planned Study	No Planned Study	5
DA0452	Irvinestown DA	3,686	Jan-23	Mar-24	Nov-23		IEM15	Erne	Apr-27	Apr-27	Stage 2 - Model Build & Verification	PC27	RPS	River WFD Model	Stll to be tendered		Pre Stage 1 - NI Water Scoping	TBC	12
DA0453	Old Green DA	58					IEM14	Maine	Sep-23	Aug-24	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	
DA0454	Backlower Road West DA	9					IEM05	Blackwater	Oct-23	Apr-25	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	
DA0456	Drumenny Road DA	9					Not in IEM Catchment	Not in IEM Catchment			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0457	Carmean DA	43					IEM13	Ballinderry	Sep-23	Jun-24	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	
DA0458	Dunronan Road DA	6					Not in IEM Catchment	Not in IEM Catchment			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0459	Springhill Road DA	12					IEM13	Ballinderry	Sep-23	Jun-24	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	2
DA0460	Killymuck DA	312					IEM13	Ballinderry	Sep-23	Jun-24	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	
DA0461	Ballyronan DA	1,000	Jul-23	Jul-23			Not in IEM Catchment	Not in IEM Catchment			Rurals Model Build Handover Complete	Historical Rurals	Atkins	No Planned Study	No Planned Study		No Planned Study	No Planned Study	4
DA0462	Derrycrin DA	397	Jul-23	Jul-23			IEM13	Ballinderry	Sep-23	Jun-24	Rurals Model Build Handover Complete	Historical Rurals	Atkins	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	1
DA0463	Kinturk DA	25	Apr-24	Apr-24			Not in IEM Catchment	Not in IEM Catchment			Rurals Model Build	Rurals	Atkins	No Planned Study	No Planned Study		No Planned Study	No Planned Study	1
DA0464	The Loup DA	274	Jul-23	Jul-23			Not in IEM Catchment	Not in IEM Catchment			Rurals Model Build Handover Complete	Historical Rurals	Atkins	No Planned Study	No Planned Study		No Planned Study	No Planned Study	2
DA0465	Drumconvis Road DA	6					IEM13	Ballinderry	Sep-23	Jun-24	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	
DA0466	Shore Road Castle View DA	12					Not in IEM Catchment	Not in IEM Catchment			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0467	Lisnamorrow DA	16					Not in IEM Catchment	Not in IEM Catchment			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0468	Point Road DA	9					Not in IEM Catchment	Not in IEM Catchment			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0469	Ballymaguigan DA	85					Not in IEM Catchment	Not in IEM Catchment			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	1
DA0470	Ritchies V llas DA	16					Not in IEM Catchment	Not in IEM Catchment			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0471	Dreenan Road DA	9					IEM16	Lower Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0472	Moyagall Road DA	6					IEM16	Lower Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0473	Beagh DA	43					IEM16	Lower Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	1
DA0474	Gulladuff DA	772					IEM16	Lower Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	2
DA0475	Knockloughrim DA	304					IEM18	Moyola	Oct-23	Sep-24	No Planned Study	No Planned Study	No Planned	River WFD Model	Intertek	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	NMC Pollutograph Output	1
DA0476	Curran DA	164					IEM18	Moyola	Oct-23	Sep-24	No Planned Study	No Planned Study	No Planned	River WFD Model	Intertek	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	NMC Pollutograph Output	1
DA0477	Broagh DA	58					IEM18	Moyola	Oct-23	Sep-24	No Planned Study	No Planned Study	No Planned	River WFD Model	Intertek	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	1
DA0478	Aikens Town Parks DA	41					IEM18	Moyola	Oct-23	Sep-24	No Planned Study	No Planned Study	No Planned	River WFD Model	Intertek	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	
DA0479	Carmean Road DA	3					IEM18	Moyola	Oct-23	Sep-24	No Planned Study	No Planned Study	No Planned	River WFD Model	Intertek	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	
DA0480	Luney DA	18					IEM18	Moyola	Oct-23	Sep-24	No Planned Study	No Planned Study	No Planned	River WFD Model	Intertek	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	
DA0481	Lower Grange Road DA	11					IEM13	Ballinderry	Sep-23	Jun-24	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	
DA0482	Curglasson DA	60					IEM13	Ballinderry	Sep-23	Jun-24	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	1
DA0483	Doorless DA	15					IEM13	Ballinderry	Sep-23	Jun-24	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	
DA0484	Drapersfield DA	190	Oct-22	Oct-22			IEM13	Ballinderry	Sep-23	Jun-24	Rurals Model Build Handover Complete	Rurals	RPS	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	2
DA0485	Gortatray DA	12					IEM05	Blackwater	Oct-23	Apr-25	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	
DA0486	Lisnahall DA	53					IEM13	Ballinderry	Sep-23	Jun-24	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	2
DA0487	Knockanroe DA	16					IEM13	Ballinderry	Sep-23	Jun-24	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	
DA0488	Ballymaguire Road DA	6					IEM13	Ballinderry	Sep-23	Jun-24	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	
DA0489	Gortnaskea Road DA	6					IEM13	Ballinderry	Sep-23	Jun-24	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	
DA0490	Tullaghmore Road DA	6					IEM05	Blackwater	Oct-23	Apr-25	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	
DA0491	Ballygruby DA	18					Not in IEM Catchment	Not in IEM Catchment			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0492	Coagh DA	1,249					IEM13	Ballinderry	Sep-23	Jun-24	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	NMC Pollutograph Output	4
DA0493	Moneymore DA	3,074	Jan-23		Jan-24		IEM13	Ballinderry	Sep-23	Jun-24	Stage 1 - Catchment Planning	PC27	WSP	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	5
DA0494	Lisnamuck Magherafelt DA	46					IEM18	Moyola	Oct-23	Sep-24	No Planned Study	No Planned Study	No Planned	River WFD Model	Intertek	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	1
DA0495	Sherrigrim DA	16					IEM13	Ballinderry	Sep-23	Jun-24	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	
DA0496	Orritor Road DA	10					IEM13	Ballinderry	Sep-23	Jun-24	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	
DA0497	Orritor DA	291					IEM13	Ballinderry	Sep-23	Jun-24	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	2
DA0500	Gortnacross DA	19					IEM13	Ballinderry	Sep-23	Jun-24	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	
DA0501	Oakland Villas DA	19					IEM13	Ballinderry	Sep-23	Jun-24	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	2
DA0502	Killybaskey DA	122					IEM13	Ballinderry	Sep-23	Jun-24	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	1
DA0503	Orritor Craigs DA	9					IEM13	Ballinderry	Sep-23	Jun-24	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	
DA0504	Coagh Road DA	9					IEM13	Ballinderry	Sep-23	Jun-24	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	
DA0505	Pomeroy Road Drumnacross DA	6					IEM13	Ballinderry	Sep-23	Jun-24	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	
DA0506	Cookstown DA	20,608	May-21	May-21	Sep-22	Aug-23	IEM13	Ballinderry	Sep-23	Jun-24	Model Maintenance	PC21 link	Atkins	River WFD Model	RPS	Model Maintenance Atkins	Stage 2 - Model Build & Verification	LTV DAP Pollutograph Output	39
DA0507	Donaghey East DA	6					IEM13	Ballinderry	Sep-23	Jun-24	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	
DA0508	Donaghey West DA	50					IEM13	Ballinderry	Sep-23	Jun-24	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	1
DA0509	Draperstown DA	3,410	Nov-22	May-24	Nov-23		IEM18	Moyola	Oct-23	Sep-24	Stage 2 - Model Build & Verification	PC27	WSP	River WFD Model	Intertek	Fast track Options July 23 - DAP not yet r	Stage 2 - Model Build & Verification	NMC Pollutograph Output	6
DA0510	Tobermore Road DA	6					IEM18	Moyola	Oct-23	Sep-24	No Planned Study	No Planned Study	No Planned	River WFD Model	Intertek	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	
DA0511	Mi ltown Maghera DA	56					IEM18	Moyola	Oct-23	Sep-24	No Planned Study	No Planned Study	No Planned	River WFD Model	Intertek	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	
DA0512	Desertmartin DA	385	Jul-23	Jul-23			IEM18	Moyola	Oct-23	Sep-24	Rurals Model Build Handover Complete	Rurals	Atkins	River WFD Model	Intertek	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	NMC Pollutograph Output	1
DA0513	Kilross DA	83					IEM18	Moyola	Oct-23	Sep-24	No Planned Study	No Planned Study	No Planned	River WFD Model	Intertek	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	

A			B		C		D				E			F		G	H	I	J
DAP Information			Model Build Report Dates		Needs and Options Report Dates		Integrated Environmental Modelling (IEM) Dates				DAP Information			IEM Information			IEM Information		
DAP reference (linked to Table 40)	DAP Name	Population Served	Baseline Model Build Report Completion Date	Current Actual or Projected Model Build Report Completion Date	Baseline Needs and Options Report Completion Date	Current Actual or Projected Needs and Options Report Completion Date	IEM reference (linked to Table 40)	IEM Name	Baseline IEM Completion Date	Current Actual or Projected IEM Completion Date	Current Stage of DAP	DAP Model	DAP Consultant	IEM Model	IEM Consultant		Current Stage of IEM	DAP - IEM linkage	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
DAP_ID	DAP_Name	DAP_Pop	DAP_MBR_BL_Sub_Date	DAP_MBR_CAP_Sub_Date	DAP_NOR_BL_Sub_Date	DAP_NOR_CAP_Sub_Date	IEM_ID	IEM_Name	IEM_BL_Sub_Date	EM_CAP_Sub_Date	Select DAP Stage from Dropdown	DAP Model	DAP Consultant	Select IEM Model from Dropdown	IEM Consultant	Comments	Select IEM Stage from Dropdown	Select IEM linkage from Dropdown	No. of Assets
DA0514	Longfield Moorside V llas DA	99					IEM18	Moyola	Oct-23	Sep-24	No Planned Study	No Planned Study	No Planned	River WFD Model	Intertek	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	NMC Pollutograph Output	1
DA0515	Maghera DA	6,575	Mar-22	Oct-22	Jun-23	Jan-24	IEM18	Moyola	Oct-23	Sep-24	DAP Stage 4 Handover Complete	PC21 link	Atkins	River WFD Model	Intertek		Stage 2 - Model Build & Verification	IEM DAP Pollutograph Output	12
DA0516	Moneyneany DA	309	Jul-23	Jul-23			IEM18	Moyola	Oct-23	Sep-24	Rurals Model Build Handover Complete	Rurals	Atkins	River WFD Model	Intertek	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	NMC Pollutograph Output	2
DA0517	Noones Vale DA	62					IEM18	Moyola	Oct-23	Sep-24	No Planned Study	No Planned Study	No Planned	River WFD Model	Intertek	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	1
DA0518	Tobermore DA	1,226					IEM18	Moyola	Oct-23	Sep-24	No Planned Study	No Planned Study	No Planned	River WFD Model	Intertek	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	NMC Pollutograph Output	3
DA0519	Corchoney Lane DA	10					IEM13	Ballinderry	Sep-23	Jun-24	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	
DA0520	Drumshambo DA	12					IEM13	Ballinderry	Sep-23	Jun-24	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	
DA0521	Edendoit Road Pomeroy DA	19					IEM13	Ballinderry	Sep-23	Jun-24	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	
DA0522	Gortaclady DA	59					IEM13	Ballinderry	Sep-23	Jun-24	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	1
DA0523	Keenaghan DA	16					IEM13	Ballinderry	Sep-23	Jun-24	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	
DA0524	Kildress Terrace DA	19					IEM13	Ballinderry	Sep-23	Jun-24	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	
DA0525	The Rock DA	150					IEM13	Ballinderry	Sep-23	Jun-24	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	1
DA0526	Skernahergney DA	12					IEM13	Ballinderry	Sep-23	Jun-24	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	
DA0527	Edendoit Road Tirnaskea DA	9					IEM13	Ballinderry	Sep-23	Jun-24	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	
DA0528	Tullyreavy DA	19					IEM13	Ballinderry	Sep-23	Jun-24	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	
DA0529	Annaghquin Road DA	16					IEM13	Ballinderry	Sep-23	Jun-24	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	
DA0530	Tulnacross Road DA	6					IEM13	Ballinderry	Sep-23	Jun-24	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	1
DA0531	Dunnamore DA	369	Jul-23	Jul-23			IEM13	Ballinderry	Sep-23	Jun-24	Rurals Model Build Handover Complete	Rurals	Atkins	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	1
DA0532	Corvanaghan DA	19					IEM13	Ballinderry	Sep-23	Jun-24	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	
DA0533	Corkill Cookstown DA	16					IEM13	Ballinderry	Sep-23	Jun-24	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	
DA0534	Waterfoot Road DA	221	Jul-23	Jul-23			IEM18	Moyola	Oct-23	Sep-24	Rurals Model Build Handover Complete	Rurals	Atkins	River WFD Model	Intertek	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	NMC Pollutograph Output	
DA0535	Davagh Park DA	19					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	
DA0536	Tullyveagh Road DA	5					IEM13	Ballinderry	Sep-23	Jun-24	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	
DA0538	Keenaghan Road DA	6					IEM13	Ballinderry	Sep-23	Jun-24	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	
DA0539	Battery Road DA	6					Not in IEM Catchment	Not in IEM Catchment			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0540	Lough Fea DA	9					IEM13	Ballinderry	Sep-23	Jun-24	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	
DA0542	Ballynamullan Road DA	6					Not in IEM Catchment	Not in IEM Catchment			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0543	Annaghmore Road DA	19					Not in IEM Catchment	Not in IEM Catchment			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0544	Cargin Road DA	41	Apr-24	Apr-24			Not in IEM Catchment	Not in IEM Catchment			Rurals Model Build	Rurals	Atkins	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0545	Stranagard DA	6					IEM18	Moyola	Oct-23	Sep-24	No Planned Study	No Planned Study	No Planned	River WFD Model	Intertek	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	
DA0546	Ballyvoy DA	271	Jul-23	Jul-23			IEM10	Bush			Rurals Model Build Handover Complete	Historical Rurals	Atkins	No Planned Study	No Planned Study		No Planned Study	No Planned Study	1
DA0547	Greenans DA	8					IEM10	Bush			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0548	Glenmakeeran DA	11					IEM10	Bush			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0549	Torr Head DA	16					Not in IEM Catchment	Not in IEM Catchment			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0550	Ballynagard Ballyvoy DA	14					IEM10	Bush			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0551	Carnduff DA	79					IEM10	Bush			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0552	Toberkeagh DA	26					IEM10	Bush			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0553	Ballintoy DA	361	Jul-23	Jul-23			IEM10	Bush			Rurals Model Build Handover Complete	Historical Rurals	Atkins	No Planned Study	No Planned Study		No Planned Study	No Planned Study	2
DA0554	Maghernahar DA	15					IEM10	Bush			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0555	Rathlin DA	210	Apr-24	Apr-24			Not in IEM Catchment	Not in IEM Catchment			Rurals Model Build	Rurals	Atkins	No Planned Study	No Planned Study		No Planned Study	No Planned Study	3
DA0556	Straid Road DA	14					IEM10	Bush			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0557	Drumavoley Road North DA	11					IEM10	Bush			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0558	Ballycastle DA	12,831	Sep-22	Sep-23	Sep-23		IEM10	Bush			Stage 2 - Model Build & Verification	PC27	RPS	No Planned Study	No Planned Study		No Planned Study	No Planned Study	7
DA0559	Turraloskin DA	20					IEM10	Bush			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0560	Capecastle DA	53					IEM10	Bush			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	1
DA0561	Tureagh DA	27					IEM10	Bush			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0562	Armoy DA	852					IEM10	Bush			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	5
DA0563	Deffrick DA	75					IEM10	Bush			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0564	Liscolman DA	271	Apr-24	Apr-24			IEM10	Bush			Rurals Model Build	Rurals	Atkins	No Planned Study	No Planned Study		No Planned Study	No Planned Study	2
DA0565	Lisnagunogue DA	105					IEM10	Bush			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	1
DA0566	Castlenagree DA	31					IEM10	Bush			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0567	Dunseverick DA	82					IEM10	Bush			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0570	Bushmills DA	5,970	Sep-21	Sep-21	Apr-22	Apr-22	IEM10	Bush			Stage 5 - Modelling Support	PC21 link	Atkins	No Planned Study	No Planned Study		No Planned Study	No Planned Study	18
DA0571	Kilrea DA	2,725	Mar-22	Oct-22	Jun-23	Feb-24	IEM16	Lower Bann			DAP Stage 4 Handover Complete	PC21 link	Atkins	No Planned Study	No Planned Study		No Planned Study	No Planned Study	12
DA0572	Lisnagalt DA	6					IEM10	Bush			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0573	Ballyrock DA	52					IEM10	Bush			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0574	Lisnisk DA	14					IEM10	Bush			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0575	Boghill DA	11					IEM16	Lower Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0576	Boghill Road DA	6					IEM16	Lower Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0577	Ballyrashane Road East DA	6					IEM16	Lower Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0578	Newmills Road DA	6					IEM16	Lower Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0579	Ballyhome DA	112	Apr-24	Apr-24			IEM10	Bush			Rurals Model Build	Rurals	Atkins	No Planned Study	No Planned Study		No Planned Study	No Planned Study	2
DA0581	Priestland DA	114					IEM10	Bush			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	1
DA0582	Corbally Road DA	6					IEM10	Bush			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0583	Clarehill DA	472	Apr-24	Apr-24			IEM16	Lower Bann			Rurals Model Build	Rurals	Atkins	No Planned Study	No Planned Study		No Planned Study	No Planned Study	2
DA0584	Culcrow DA	203					IEM16	Lower Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	1
DA0585	Lisnamuck Coleraine DA	22					IEM16	Lower Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0586	Moneydig DA	91					IEM16	Lower Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	2
DA0587	Mayoghill DA	5					IEM16	Lower Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0588	Caheny DA	11					IEM16	Lower Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0589	Cullyramer DA	5					IEM16	Lower Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0590	North Coast DA (Portstewart)		Mar-18	Mar-18	May-22	Apr-23	IEM12	North Coast			DAP Stage 4 Handover Complete	PC21 link	Atkins	Bathing Water Compliance Model	Paused		Stage 1 - Complete - project paused	TBC	
DA0590	North Coast DA (Portrush)		Mar-18	Mar-18	May-22	Apr-23	IEM12	North Coast			DAP Stage 4 Handover Complete	PC21 link	Atkins	Bathing Water Compliance Model	Paused		Stage 1 - Complete - project paused	TBC	
DA0590	North Coast DA (Coleraine)	82,666	Mar-18	Mar-18	May-22	Apr-23	IEM16	Lower Bann			Stage 5 - Modelling Support	PC21 link	Atkins	No Planned Study	No Planned Study		No Planned Study	No Planned Study	58
DA0591	Coole Glebe DA	23					IEM16	Lower Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0592	Macosquin DA	841					IEM16	Lower Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	1
DA0593	Drumcroon DA	5					IEM16	Lower Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0594	Managher DA	18					IEM16	Lower Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0595	McCleary DA	5					Not in IEM Catchment	Not in IEM Catchment			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0597	Culbane DA	17					IEM16	Lower Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0598	Craigavole DA	28					IEM16	Lower Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0599	Drumagarner DA	16					IEM16	Lower Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0600	Drumane DA	16					IEM16	Lower Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0601	Boveedy DA	108					IEM16	Lower Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0603	Ballylintagh DA	100					IEM16	Lower Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	1
DA0604	Garvagh DA	1,996	Jan-24		Jan-25		IEM16	Lower Bann			DAP not issued yet	PC27	TBC	No Planned Study	No Planned Study		No Planned Study	No Planned Study	7
DA0605	Ringsend DA	73					IEM16	Lower Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	1
DA0606	Ballyagan DA	22					IEM16	Lower Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0607	Shinny Road DA	6					IEM16	Lower Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	

A			B		C		D				E			F		G	H	I	J
DAP Information			Model Build Report Dates		Needs and Options Report Dates		Integrated Environmental Modelling (IEM) Dates				DAP Information			IEM Information			IEM Information		
DAP reference (linked to Table 40)	DAP Name	Population Served	Baseline Model Build Report Completion Date	Current Actual or Projected Model Build Report Completion Date	Baseline Needs and Options Report Completion Date	Current Actual or Projected Needs and Options Report Completion Date	IEM reference (linked to Table 40)	IEM Name	Baseline IEM Completion Date	Current Actual or Projected IEM Completion Date	Current Stage of DAP	DAP Model	DAP Consultant	IEM Model	IEM Consultant		Current Stage of IEM	DAP - IEM linkage	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
DAP_ID	DAP_Name	DAP_Pop	DAP_MBR_BL_Sub_Date	DAP_MBR_CAP_Sub_Date	DAP_NOR_BL_Sub_Date	DAP_NOR_CAP_Sub_Date	IEM_ID	IEM_Name	IEM_BL_Sub_Date	EM_CAP_Sub_Date	Select DAP Stage from Dropdown	DAP Model	DAP Consultant	Select IEM Model from Dropdown	IEM Consultant	Comments	Select IEM Stage from Dropdown	Select IEM linkage from Dropdown	No. of Assets
DA0608	Greenhill DA	17					IEM16	Lower Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0609	Craigmore Road Ballynacally DA	8					IEM16	Lower Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0610	Mayboy DA	203					IEM16	Lower Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	1
DA0611	Brockaghboy DA	182	Apr-24	Apr-24			IEM16	Lower Bann			Rurals Model Build	Rurals	Atkins	No Planned Study	No Planned Study		No Planned Study	No Planned Study	3
DA0612	Ballinteer DA	21					IEM16	Lower Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0613	Longs Glebe DA	80					IEM12	North Coast			No Planned Study	No Planned Study	No Planned	Bathing Water Compliance Model	Paused		Stage 1 - Complete - project paused	TBC	1
DA0614	Dartress DA	20					IEM16	Lower Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	2
DA0615	Ballyhacket Road DA	16					IEM12	North Coast			No Planned Study	No Planned Study	No Planned	Bathing Water Compliance Model	Paused		Stage 1 - Complete - project paused	TBC	
DA0616	Bellany DA	110	Apr-24	Apr-24			IEM16	Lower Bann			Rurals Model Build	Rurals	Atkins	No Planned Study	No Planned Study		No Planned Study	No Planned Study	2
DA0617	Churchfield Road DA	19					IEM10	Bush			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0618	Moneybrannon Road North DA	6					IEM16	Lower Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0619	Coolnagoppoge DA	52					IEM10	Bush			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0620	Boleran Road Garvagh DA	14					IEM16	Lower Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0621	Kinnyglass Road DA	6					IEM16	Lower Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0622	Gortin Road Kilrea DA	5					IEM16	Lower Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0623	Straid Road Ballycastle DA	8					IEM10	Bush			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0625	Causeway Road Carrowreagh DA	5					IEM10	Bush			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0626	Glenshesk Road DA	5					IEM10	Bush			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0627	Craigmore Road Kiltest DA	11					IEM16	Lower Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0628	Movenis Hill DA	5					IEM16	Lower Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0629	Moyarget Road DA	5					IEM10	Bush			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0630	Causeway Road Feigh Lower DA	5					IEM10	Bush			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0631	Agivey Road DA	8					IEM16	Lower Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0632	Ballyrashane Road West DA	6					IEM16	Lower Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0633	Whitepark Road Artimacormick DA	5					IEM10	Bush			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0634	Graceh II Road DA	0					IEM10	Bush			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0635	Lisnagat Road Liscolman DA	12					IEM10	Bush			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0636	Whitepark Road Carnmoon DA	5					IEM10	Bush			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0637	Dunboe Road DA	5					IEM16	Lower Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0638	Ballinlea Road, Maghernahar DA	8					IEM10	Bush			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0639	Drumavoley Road South DA	5					IEM10	Bush			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0640	Magheramore Road DA	8					IEM10	Bush			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0641	Ballyvelton Road South DA	11					IEM16	Lower Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0642	Tiberan Cottages DA	23					IEM16	Lower Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0644	Leeke Road DA	27					IEM10	Bush			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0645	Priestland Road DA	6					IEM10	Bush			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0646	Carrowreagh Road South DA	5					IEM10	Bush			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0647	Springwell Crescent DA	19					IEM16	Lower Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0648	Hillside Road Brockagh DA	6					IEM16	Lower Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0649	Navery Road DA	14					IEM16	Lower Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0650	Pharis Road Armoy DA	12					IEM10	Bush			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0651	Glenbush Road DA	12					IEM10	Bush			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0652	Bregagh Road South DA	6					IEM10	Bush			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0653	Bregagh Road Central DA	9					IEM10	Bush			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0654	Dungorbery DA	9					IEM16	Lower Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0655	Killyrammer DA	155					IEM16	Lower Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0656	Chatham Road DA	12					IEM10	Bush			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0657	Stranocum DA	613	Apr-24	Apr-24			IEM10	Bush			Rurals Model Build	Rurals	Atkins	No Planned Study	No Planned Study		No Planned Study	No Planned Study	3
DA0658	Hillcrest Ballymoney DA	24					IEM10	Bush			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0659	Ballyveely DA	13					IEM10	Bush			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0660	Coolkeeran DA	6					IEM10	Bush			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0661	Magherahoney DA	88					IEM10	Bush			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0662	Drones DA	48					IEM10	Bush			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0663	Burnquarter DA	45					IEM16	Lower Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0664	Killogue DA	19					IEM16	Lower Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0665	Glenstall DA	22,306	Jul-20	Jul-20			IEM10	Bush			Model Maintenance		Atkins	No Planned Study	No Planned Study	Model Maintenance Atkins	No Planned Study	No Planned Study	25
DA0666	Donnelly Park DA	40					IEM16	Lower Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0667	Rosnashane DA	41					IEM16	Lower Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0668	Drumreagh DA	9					IEM16	Lower Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0669	Garryduff DA	19					IEM16	Lower Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0670	Knockans DA	6					IEM16	Lower Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0671	Mullans DA	299	Jul-23	Jul-23			IEM16	Lower Bann			Rurals Model Build Handover Complete	Historical Rurals	Atkins	No Planned Study	No Planned Study		No Planned Study	No Planned Study	3
DA0672	Dempsey Park DA	77					IEM16	Lower Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	1
DA0673	Garryduff Church DA	14					IEM16	Lower Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0674	Mullan Road DA	6					IEM16	Lower Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0675	Ballymacormick DA	16					IEM10	Bush			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0677	Dervock DA	1,017	Jul-23	Jul-23			IEM10	Bush			Rurals Model Build Handover Complete	Historical Rurals	Atkins	No Planned Study	No Planned Study		No Planned Study	No Planned Study	3
DA0678	Benvardin Road DA	5					IEM10	Bush			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0679	Macfin DA	130					IEM16	Lower Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	1
DA0680	Seacon DA	102					IEM16	Lower Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	2
DA0681	Culramoney Road DA	9					IEM16	Lower Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0682	Drumnacanon Road DA	6					IEM16	Lower Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0683	Culnady Road DA	6					IEM16	Lower Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0684	Tamlaght O Crilly DA	237	Jul-23	Jul-23			IEM16	Lower Bann			Rurals Model Build Handover Complete	Rurals	Atkins	No Planned Study	No Planned Study		No Planned Study	No Planned Study	1
DA0685	Drumbolg Road DA	6					IEM16	Lower Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0686	Upperlands DA	953	Jan-24		Dec-24		IEM16	Lower Bann			DAP not issued yet	PC27	TBC	No Planned Study	No Planned Study		No Planned Study	No Planned Study	5
DA0687	Drumagarner Road Killymuck DA	16					IEM16	Lower Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0688	Drumagarner Road Old Town DA	12					IEM16	Lower Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0689	Drumard Kilrea DA	18					IEM16	Lower Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0690	Lismoyle DA	27					IEM16	Lower Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0691	Swatragh DA	745	Jul-23	Jul-23			IEM16	Lower Bann			Rurals Model Build Handover Complete	Rurals	Atkins	No Planned Study	No Planned Study		No Planned Study	No Planned Study	4
DA0692	Fallahogy DA	32					IEM16	Lower Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0693	Lislea Terrace DA	13					IEM16	Lower Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0694	Derrykeighan DA	130					IEM10	Bush			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0695	Altnahinch WTW DA	3					IEM10	Bush			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0696	Ballinrees WTW DA	3					IEM16	Lower Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0697	Ballyvelton Road North DA	14					IEM16	Lower Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0698	Gorran Road DA	6					IEM16	Lower Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0699	Glenstaghey Road DA	8					IEM10	Bush			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	

A			B		C		D				E			F		G	H	I	J
DAP Information			Model Build Report Dates		Needs and Options Report Dates		Integrated Environmental Modelling (IEM) Dates				DAP Information			IEM Information			IEM Information		
DAP reference (linked to Table 40)	DAP Name	Population Served	Baseline Model Build Report Completion Date	Current Actual or Projected Model Build Report Completion Date	Baseline Needs and Options Report Completion Date	Current Actual or Projected Needs and Options Report Completion Date	IEM reference (linked to Table 40)	IEM Name	Baseline IEM Completion Date	Current Actual or Projected IEM Completion Date	Current Stage of DAP	DAP Model	DAP Consultant	IEM Model	IEM Consultant		Current Stage of IEM	DAP - IEM linkage	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
DAP_ID	DAP_Name	DAP_Pop	DAP_MBR_BL_Sub_Date	DAP_MBR_CAP_Sub_Date	DAP_NOR_BL_Sub_Date	DAP_NOR_CAP_Sub_Date	IEM_ID	IEM_Name	IEM_BL_Sub_Date	EM_CAP_Sub_Date	Select DAP Stage from Dropdown	DAP Model	DAP Consultant	Select IEM Model from Dropdown	IEM Consultant	Comments	Select IEM Stage from Dropdown	Select IEM linkage from Dropdown	No. of Assets
DA0700	Bregagh Road North DA	6					IEM10	Bush			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0701	Causeway Road Carnside DA	5					IEM10	Bush			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0702	Causeway Road Railway DA	5					IEM10	Bush			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0703	Glenleary Road DA	17					IEM16	Lower Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0704	Whitepark Road DA	10					IEM10	Bush			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0705	Lisnagat Road DA	15					IEM10	Bush			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0706	Aghory DA	64					IEM17	Upper Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	2
DA0707	Farmacaffley DA	63					IEM05	Blackwater	Oct-23	Apr-25	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	1
DA0708	Kilmachugh DA	21					IEM17	Upper Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0709	Lisnadill DA	38					IEM05	Blackwater	Oct-23	Apr-25	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	1
DA0710	Markethill DA	2,585	Jan-22	Jan-22	Jun-23	Feb-24	IEM17	Upper Bann			DAP Stage 4 Handover Complete	PC21 link	Atkins	No Planned Study	No Planned Study		No Planned Study	No Planned Study	5
DA0711	Seagahan DA	32					IEM05	Blackwater	Oct-23	Apr-25	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	
DA0712	Annaghmore DA	570	Jul-23	Jul-23			IEM05	Upper Bann			Rurals Model Build Handover Complete	Rurals	Atkins	No Planned Study	No Planned Study	No Planned Study	No Planned Study	No Planned Study	5
DA0713	Ardress DA	159	Oct-22	Oct-22			IEM05	Blackwater	Oct-23	Apr-25	Rurals Model Build Handover Complete	Rurals	RPS	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	3
DA0714	Ballynahinch Armagh DA	40					IEM05	Blackwater	Oct-23	Apr-25	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	
DA0715	Eglish Armagh DA	149					IEM17	Upper Bann			No Planned Study			No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0716	Mi ltown Aghory DA	192					IEM17	Upper Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	1
DA0717	Mullaghbane Armagh DA	32					IEM05	Blackwater	Oct-23	Apr-25	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	1
DA0718	Richhi l DA	2,534	May-22	Feb-22	May-23	Oct-24	IEM05	Blackwater	Oct-23	Apr-25	Stage 3 - Risks	PC27	Atkins	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	8
DA0719	Annahugh DA	432	Oct-22	Oct-22			IEM05	Blackwater	Oct-23	Apr-25	Rurals Model Build Handover Complete	Rurals	RPS	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	4
DA0720	Hamiltonsbawn DA	1,285	Jan-24		Dec-24		IEM17	Upper Bann			DAP not issued yet	PC27	TBC	No Planned Study	No Planned Study		No Planned Study	No Planned Study	5
DA0721	Crossnamoyle DA	16					IEM05	Blackwater	Oct-23	Apr-25	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	
DA0722	Darkley DA	439					IEM05	Blackwater	Oct-23	Apr-25	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	2
DA0723	Doogary DA	18					IEM05	Blackwater	Oct-23	Apr-25	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	
DA0724	Drumhillery DA	69					IEM05	Blackwater	Oct-23	Apr-25	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	2
DA0725	Caledon DA	1,492	Jan-24		Dec-24		IEM05	Blackwater	Oct-23	Apr-25	DAP not issued yet	PC27	TBC	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	7
DA0726	Madden DA	149	Apr-24	Apr-24			IEM05	Blackwater	Oct-23	Apr-25	Rurals Model Build	Rurals	Atkins	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	3
DA0727	Magherarville DA	18					IEM05	Blackwater	Oct-23	Apr-25	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	
DA0728	Manor House DA	21					IEM05	Blackwater	Oct-23	Apr-25	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	
DA0729	Middletown DA	525	Apr-24	Apr-24			IEM05	Blackwater	Oct-23	Apr-25	Rurals Model Build	Rurals	Atkins	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	2
DA0730	Derrynoose DA	122					IEM05	Blackwater	Oct-23	Apr-25	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	1
DA0731	Ballymacawley DA	19					IEM17	Upper Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0732	Ballymacnab DA	35					IEM05	Blackwater	Oct-23	Apr-25	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	
DA0733	Ballynagalliagh Armagh DA	27					IEM05	Blackwater	Oct-23	Apr-25	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	1
DA0734	Cavanagrow DA	40					IEM05	Blackwater	Oct-23	Apr-25	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	1
DA0735	Cladymore DA	223					IEM17	Upper Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	1
DA0736	Dundrum Keady DA	22					IEM05	Blackwater	Oct-23	Apr-25	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	
DA0738	Drumkee DA	20					IEM05	Blackwater	Oct-23	Apr-25	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	
DA0739	Killeen Dungannon DA	607					IEM05	Blackwater	Oct-23	Apr-25	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	1
DA0742	Kinego Cottages DA	11					IEM05	Blackwater	Oct-23	Apr-25	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	
DA0743	Moy DA	4,340	Jul-18	Jul-18	Feb-21	Feb-21	IEM05	Blackwater	Oct-23	Apr-25	DAP Stage 5 Complete	PC21 link	WSP	River WFD Model	RPS		Stage 2 - Model Build & Verification	LTV DAP Pollutograph Output	7
DA0744	Dungannon DA	91,323	Sep-21	Sep-21	Nov-21	Nov-21	IEM05	Blackwater	Oct-23	Apr-25	Stage 5 - Modelling Support	PC21 link	Atkins	River WFD Model	RPS		Stage 2 - Model Build & Verification	LTV DAP Pollutograph Output	28
DA0745	Coalisland DA	10,821	Feb-23	May-24	Feb-24		IEM05	Blackwater	Oct-23	Apr-25	Stage 2 - Model Build & Verification	PC27	RPS	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	31
DA0747	Doan Place DA	16					IEM05	Blackwater	Oct-23	Apr-25	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	
DA0748	Donaghmore DA	1,912	Jan-23		Jan-24		IEM05	Blackwater	Oct-23	Apr-25	DAP not issued yet	PC27	TBC	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	4
DA0749	Eglish Dungannon DA	606	Jul-23	Jul-23			IEM05	Blackwater	Oct-23	Apr-25	Rurals Model Build Handover Complete	Historical Rurals	Atkins	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	
DA0750	Newmills DA	820	Apr-24	Apr-24			IEM05	Blackwater	Oct-23	Apr-25	Rurals Model Build	Rurals	Atkins	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	1
DA0751	Redford DA	312	Jul-23	Jul-23			IEM05	Blackwater	Oct-23	Apr-25	Rurals Model Build Handover Complete	Historical Rurals	Atkins	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	1
DA0752	Stangmore DA	15					IEM05	Blackwater	Oct-23	Apr-25	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	
DA0753	Drumard Newmills DA	15					IEM05	Blackwater	Oct-23	Apr-25	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	
DA0754	Aghinlig DA	225	Oct-22	Oct-22			IEM05	Blackwater	Oct-23	Apr-25	Rurals Model Build Handover Complete	Rurals	RPS	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	3
DA0755	Armagh DA	15,733	Jul-22	Feb-22	Aug-23	Feb-24	IEM05	Blackwater	Oct-23	Apr-25	Stage 4 - Interventions	PC21 link	Atkins	River WFD Model	RPS		Stage 2 - Model Build & Verification	IEM DAP Pollutograph Output	20
DA0758	Loughgall DA	588	Jul-23	Jul-23			IEM05	Blackwater	Oct-23	Apr-25	Rurals Model Build Handover Complete	Rurals	Atkins	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	4
DA0759	Grange Blundel DA	18	Jul-23	Jul-23			IEM05	Blackwater	Oct-23	Apr-25	Rurals Model Build Handover Complete	Historical Rurals	Atkins	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	
DA0760	Grangemore DA	49					IEM05	Blackwater	Oct-23	Apr-25	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	
DA0761	Lisdown DA	21					IEM05	Blackwater	Oct-23	Apr-25	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	
DA0762	Teeraw DA	16					IEM05	Blackwater	Oct-23	Apr-25	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	
DA0763	Tullyelmer DA	11					IEM05	Blackwater	Oct-23	Apr-25	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	
DA0764	Benburb DA	1,191	Jan-24		Dec-24		IEM05	Blackwater	Oct-23	Apr-25	DAP not issued yet	PC27	TBC	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	9
DA0766	Blackwatertown DA	803	Jul-23	Jul-23			IEM05	Blackwater	Oct-23	Apr-25	Rurals Model Build Handover Complete	Historical Rurals	Atkins	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	NMC Pollutograph Output	3
DA0767	Kiltubbrid DA	24	Apr-24	Apr-24			IEM05	Blackwater	Oct-23	Apr-25	Rurals Model Build	Rurals	Atkins	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	1
DA0768	Derryhaw DA	12					IEM05	Blackwater	Oct-23	Apr-25	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	
DA0769	Keady Armagh DA	5,134	Sep-23		Sep-24		IEM05	Blackwater	Oct-23	Apr-25	DAP not issued yet	PC27	TBC	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	8
DA0770	Clay Lake DA	3					IEM05	Blackwater	Oct-23	Apr-25	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	
DA0771	Aghnagar DA	15					IEM05	Blackwater	Oct-23	Apr-25	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	
DA0772	Brantry DA	29					IEM05	Blackwater	Oct-23	Apr-25	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	
DA0773	Cabragh DA	651	Jul-23	Jul-23			IEM05	Blackwater	Oct-23	Apr-25	Rurals Model Build Handover Complete	Historical Rurals	Atkins	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	2
DA0774	Castlecaulfield DA	1,247	Jan-23		Jan-24		IEM05	Blackwater	Oct-23	Apr-25	DAP not issued yet	PC27	TBC	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	5
DA0775	Derrygortrevy DA	23					IEM05	Blackwater	Oct-23	Apr-25	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	
DA0776	Dyan DA	68					IEM05	Blackwater	Oct-23	Apr-25	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	2
DA0777	Galbally DA	344	Jul-23	Jul-23			IEM13	Ballinderry	Sep-23	Jun-24	Rurals Model Build Handover Complete	Historical Rurals	Atkins	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	2
DA0778	Inishmagh DA	19					IEM05	Blackwater	Oct-23	Apr-25	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	
DA0779	Mullyroddan DA	23					IEM05	Blackwater	Oct-23	Apr-25	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	1
DA0780	Tullyleek DA	24					IEM05	Blackwater	Oct-23	Apr-25	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	
DA0781	Cappagh DA	126	Jul-23	Jul-23			IEM05	Blackwater	Oct-23	Apr-25	Rurals Model Build Handover Complete	Rurals	Atkins	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	2
DA0782	Edencrannon DA	148	Oct-22	Oct-22			IEM05	Blackwater	Oct-23	Apr-25	Rurals Model Build Handover Complete	Rurals	RPS	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	3
DA0783	Kilnacart Road DA	15					IEM05	Blackwater	Oct-23	Apr-25	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	
DA0784	Bovean DA	25	Oct-22	Oct-22			IEM05	Blackwater	Oct-23	Apr-25	Rurals Model Build Handover Complete	Rurals	RPS	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	1
DA0786	Tamnamore DA	970	Jul-23	Jul-23			IEM05	Blackwater	Oct-23	Apr-25	Rurals Model Build Handover Complete	Rurals	Atkins	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	NMC Pollutograph Output	11
DA0787	Derrymagowan Road DA	6					IEM05	Blackwater	Oct-23	Apr-25	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	
DA0788	Tullyroan DA	48					IEM05	Blackwater	Oct-23	Apr-25	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	
DA0789	Cr lly DA	13					IEM05	Blackwater	Oct-23	Apr-25	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	
DA0790	Carricklongfield DA	6					IEM05	Blackwater	Oct-23	Apr-25	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	
DA0791	Drumflugh Road DA	14					IEM05	Blackwater	Oct-23	Apr-25	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	
DA0792	Ballynahaye Road DA	6					IEM05	Blackwater	Oct-23	Apr-25	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	
DA0793	Minterburn Road DA	6					IEM05	Blackwater	Oct-23	Apr-25	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	
DA0794	Whitelough Road DA	6					IEM05	Blackwater	Oct-23	Apr-25	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	
DA0795	Rehaghy Road DA	6					IEM05	Blackwater	Oct-23	Apr-25	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	
DA0796	Lisdoart Bridge DA	15					IEM05	Blackwater	Oct-23	Apr-25	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	

A			B		C		D				E			F		G	H	I	J
DAP Information			Model Build Report Dates		Needs and Options Report Dates		Integrated Environmental Modelling (IEM) Dates				DAP Information			IEM Information			IEM Information		
DAP reference (linked to Table 40)	DAP Name	Population Served	Baseline Model Build Report Completion Date	Current Actual or Projected Model Build Report Completion Date	Baseline Needs and Options Report Completion Date	Current Actual or Projected Needs and Options Report Completion Date	IEM reference (inked to Table 40)	IEM Name	Baseline IEM Completion Date	Current Actual or Projected IEM Completion Date	Current Stage of DAP	DAP Model	DAP Consultant	IEM Model	IEM Consultant		Current Stage of IEM	DAP - IEM linkage	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
DAP_ID	DAP_Name	DAP_Pop	DAP_MBR_BL_Sub_Date	DAP_MBR_CAP_Sub_Date	DAP_NOR_BL_Sub_Date	DAP_NOR_CAP_Sub_Date	IEM_ID	IEM_Name	IEM_BL_Sub_Date	EM_CAP_Sub_Date	Select DAP Stage from Dropdown	DAP Model	DAP Consultant	Select IEM Model from Dropdown	IEM Consultant	Comments	Select IEM Stage from Dropdown	Select IEM linkage from Dropdown	No. of Assets
DA0797	Aughnacloy DA	2,252	Jul-23	Jul-23			IEM05	Blackwater	Oct-23	Apr-25	Rurals Model Build Handover Complete	Historical Rurals	Atkins	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	7
DA0798	Ballygawley DA	1,573	Jul-23	Jul-23			IEM05	Blackwater	Oct-23	Apr-25	Rurals Model Build Handover Complete	Historical Rurals	Atkins	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	7
DA0799	Knockonny DA	23					IEM05	Blackwater	Oct-23	Apr-25	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	
DA0800	Lisdoart Terrace DA	74					IEM05	Blackwater	Oct-23	Apr-25	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	
DA0801	Gallrock DA	17					IEM17	Upper Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0802	Glenanne Road DA	8					IEM17	Upper Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA0803	Kilmore Richhi l DA	235	Apr-24	Apr-24			IEM05	Blackwater	Oct-23	Apr-25	Rurals Model Build	Rurals	Atkins	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	2
DA0804	Altmore WTW DA	3					IEM05	Blackwater	Oct-23	Apr-25	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	
DA0805	Gortnagola Road DA	6					IEM13	Ballinderry	Sep-23	Jun-24	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	
DA0806	Carnteel Road DA	6					IEM05	Blackwater	Oct-23	Apr-25	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	
DA0807	Upper Cranlome Road DA	6					IEM05	Blackwater	Oct-23	Apr-25	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	
DA0808	Pomeroy Road Tullyaran DA	18					IEM13	Ballinderry	Sep-23	Jun-24	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	2
DA0809	Ardgarvan DA	171					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	1
DA0810	Drumsurn DA	506	Oct-22	Oct-22			IEM09	Foyle	Apr-23	Oct-23	Rurals Model Build Handover Complete	Rurals	RPS	Shel fish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	3
DA0811	Ballyquin DA	89	Apr-24	Apr-24			IEM09	Foyle	Apr-23	Oct-23	Rurals Model Build	Rurals	Atkins	Shel fish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	3
DA0812	Ballymacallion DA	18					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	
DA0813	Bonnanaboigh DA	277	Oct-22	Oct-22			IEM09	Foyle	Apr-23	Oct-23	Rurals Model Build Handover Complete	Rurals	RPS	Shel fish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	1
DA0814	Dromore Highlands DA	109					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	1
DA0815	Largy DA	158					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	1
DA0816	Drumraighland DA	89					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	1
DA0817	Edenmore Road DA	11					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	
DA0818	Feeny DA	830	Oct-22	Oct-22			IEM09	Foyle	Apr-23	Oct-23	Rurals Model Build Handover Complete	Rurals	RPS	Shel fish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	3
DA0819	Dernaflaw DA	365	Jul-23	Jul-23			IEM09	Foyle	Apr-23	Oct-23	Rurals Model Build Handover Complete	Historical Rurals	Atkins	Shel fish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	1
DA0820	Owenbeg DA	29					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	
DA0821	Dungiven DA	4,766	Mar-14	Mar-14	Sep-24		IEM09	Foyle	Apr-23	Oct-23	DAP not issued yet	PC27	TBC	Shel fish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	9
DA0822	Caugh Hill DA	15					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	
DA0823	Crebarkey DA	23					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	
DA0824	Carnanbane DA	75					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	1
DA0825	Gortnahey DA	361					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	2
DA0826	Foreglen DA	458	Oct-22	Oct-22			IEM09	Foyle	Apr-23	Oct-23	Rurals Model Build Handover Complete	Rurals	RPS	Shel fish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	3
DA0827	Gortscreagan DA	79					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	1
DA0828	Killaloo DA	92					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	2
DA0829	Claudy DA	2,980	Jan-23		Jan-24		IEM09	Foyle	Apr-23	Oct-23	DAP not issued yet	PC27	TBC	Shel fish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	8
DA0830	Mulderg DA	52					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	
DA0831	Lisnakilly DA	42					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	
DA0832	Drummond DA	25					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	
DA0833	Limestone Road DA	7					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	
DA0834	Limestone DA	7					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	
DA0838	Limavady DA	16,604	Dec-21	Dec-21	Mar-22	Mar-22	IEM09	Foyle	Apr-23	Oct-23	Stage 5 - Modelling Support	PC21 link	WSP	Shel fish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	11
DA0839	Bolea DA	128					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	1
DA0840	Myroe DA	172	Apr-24	Apr-24			IEM09	Foyle	Apr-23	Oct-23	Rurals Model Build	Rurals	Atkins	Shel fish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	5
DA0841	Aghanloo DA	878	Jul-23	Jul-23			IEM09	Foyle	Apr-23	Oct-23	Rurals Model Build Handover Complete	Historical Rurals	Atkins	Shel fish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	4
DA0842	Drumneechy DA	23					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	
DA0843	Glack DA	219					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	1
DA0844	Ballykelly Limavady DA	4,096	Feb-14	Feb-14			IEM09	Foyle	Apr-23	Oct-23	DAP not issued yet	PC21 link	TBC	Shel fish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	IEM DAP Pollutograph Output	6
DA0845	McLean Road North DA	0					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	
DA0846	Culmore DA	166,238	Aug-20	Aug-20	Mar-23	Feb-24	IEM09	Foyle	Apr-23	Oct-23	Enhanced DAP	PC21 link	Atkins	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	IEM DAP Pollutograph Output	63
DA0847	Donnybrewer DA	5,505	Apr-22	Apr-22	Apr-23		IEM09	Foyle	Apr-23	Oct-23	Stage 2 - Handover Complete	PC21 link	AECOM	Shel fish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	13
DA0848	Donnybrewer Road DA	0					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	
DA0849	Donnybrewer Road East DA	5					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	
DA0850	Donnybrewer Road West DA	5					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	
DA0851	Greysteel DA	2,085	Jun-22	Jun-22			IEM09	Foyle	Apr-23	Oct-23	Stage 2 - Handover Complete	PC27	AECOM	Shel fish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	6
DA0853	Park DA	742	Apr-24	Apr-24			IEM09	Foyle	Apr-23	Oct-23	Rurals Model Build	Rurals	Atkins	Shel fish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	4
DA0854	Ervey Road South DA	14					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	
DA0855	Tamnaherin DA	359	Jul-23	Jul-23			IEM09	Foyle	Apr-23	Oct-23	Rurals Model Build Handover Complete	Rurals	Atkins	Shel fish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	3
DA0856	Ervey Road North DA	0					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	
DA0857	Ervey Road Central DA	0					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	
DA0858	Gransha DA	5					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	
DA0859	Stradreagh DA	11					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	
DA0860	Glenabbey DA	66					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	
DA0861	Nixons Corner DA	256	Apr-24	Apr-24			IEM09	Foyle	Apr-23	Oct-23	Rurals Model Build	Rurals	Atkins	Shel fish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	3
DA0862	Killylane DA	87					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	1
DA0863	Molenan DA	35					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	
DA0864	Faughan DA	12					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	
DA0867	Legaghory DA	29					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	2
DA0869	Gosheden South DA	92					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	1
DA0870	Ardground DA	75					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	2
DA0871	Knockbrack DA	20					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	
DA0872	Edenreagh Road DA	32					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	
DA0873	Ardlough Road DA	8					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	
DA0874	Foreglen Road DA	9					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	
DA0875	Bonds Glen Road Raspberry DA	6					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	
DA0876	Bonds Glen Road Ardground DA	6					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	
DA0877	Duncastle Road DA	17					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	
DA0878	Gortnagross Road DA	6					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	
DA0879	Glenedra Road DA	6					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	
DA0880	Trench Road DA	11					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	1
DA0881	Drumsurn Road DA	8					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	
DA0882	Bovevagh Road DA	9					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	
DA0883	Ballyavelin Road DA	0					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	
DA0884	Derryork Road DA	12					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	
DA0885	Brisland Road DA	5					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	
DA0886	Donemana DA	1,083	Jul-23	Jul-23			IEM09	Foyle	Apr-23	Oct-23	Rurals Model Build Handover Complete	Historical Rurals	Atkins	Shel fish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	2
DA0887	Lisnaragh DA	23					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	
DA0888	Loughan Road Donemana DA	23					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	
DA0889	Castlemellan Upper DA	11					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	
DA0890	Altishane DA	14					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	
DA0891	Glenagoorland DA	14					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	
DA0892	Moneycanon DA	37					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	

A			B		C		D				E			F		G	H	I	J
DAP Information			Model Build Report Dates		Needs and Options Report Dates		Integrated Environmental Modelling (IEM) Dates				DAP Information			IEM Information			IEM Information		
DAP reference (linked to Table 40)	DAP Name	Population Served	Baseline Model Build Report Completion Date	Current Actual or Projected Model Build Report Completion Date	Baseline Needs and Options Report Completion Date	Current Actual or Projected Needs and Options Report Completion Date	IEM reference (linked to Table 40)	IEM Name	Baseline IEM Completion Date	Current Actual or Projected IEM Completion Date	Current Stage of DAP	DAP Model	DAP Consultant	IEM Model	IEM Consultant		Current Stage of IEM	DAP - IEM linkage	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
DAP_ID	DAP_Name	DAP_Pop	DAP_MBR_BL_Sub_Date	DAP_MBR_CAP_Sub_Date	DAP_NOR_BL_Sub_Date	DAP_NOR_CAP_Sub_Date	IEM_ID	IEM_Name	IEM_BL_Sub_Date	EM_CAP_Sub_Date	Select DAP Stage from Dropdown	DAP Model	DAP Consultant	Select IEM Model from Dropdown	IEM Consultant	Comments	Select IEM Stage from Dropdown	Select IEM linkage from Dropdown	No. of Assets
DA0893	Castlemellan Lower DA	17					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	
DA0894	Tullyard Donemana DA	11					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	
DA0895	Dunnyboe Road DA	17					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	
DA0896	Ballymagorry DA	1,876					IEM09	Foyle	Apr-23	Oct-23		PC27	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	7
DA0898	Mi ltown Artigarvan DA	11					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	
DA0899	Drumenny DA	74					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	1
DA0900	Artigarvan Station Road DA	22					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	
DA0901	Donagheady DA	191	Apr-24	Apr-24			IEM09	Foyle	Apr-23	Oct-23	Rurals Model Build	Rurals	Atkins	Shel fish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	3
DA0902	Mi ltown Burndennet DA	51					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	1
DA0903	Ballyheather Road DA	3					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	
DA0904	Whin Road DA	6					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	
DA0905	Killycurry Road DA	6					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	
DA0906	Victoria Road DA	11					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	
DA0907	Creaghcor DA	22					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	
DA0908	Bready DA	321	Oct-22	Oct-22			IEM09	Foyle	Apr-23	Oct-23	Rurals Model Build Handover Complete	Rurals	RPS	Shel fish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	4
DA0909	Cullion Bready DA	80					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	1
DA0910	Magheramason DA	654	Jul-23	Jul-23			IEM09	Foyle	Apr-23	Oct-23	Rurals Model Build Handover Complete	Rurals	Atkins	Shel fish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	3
DA0911	Willow Road DA	0					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	
DA0912	Glenmornan DA	190					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	1
DA0913	Keenaghan Strabane DA	22					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	
DA0914	Ballee Road Ba lee DA	8					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	
DA0915	Monmurry DA	26					IEM15	Erne	Apr-27	Apr-27	No Planned Study	No Planned Study	No Planned	River WFD Model	St ll to be tendered		Pre Stage 1 - NI Water Scoping	TBC	
DA0916	Keady DA	18					IEM15	Erne	Apr-27	Apr-27	No Planned Study	Historical	No Planned	River WFD Model	St ll to be tendered		Pre Stage 1 - NI Water Scoping	TBC	
DA0917	Newtownbutler DA	1,503	Nov-22	Sep-23	Nov-23		IEM15	Erne	Apr-27	Apr-27	Stage 2 - Handover Complete	PC27	WSP	River WFD Model	St ll to be tendered	Fast track Options	Pre Stage 1 - NI Water Scoping	TBC	4
DA0918	Clabby DA	332	Jul-23	Jul-23			IEM15	Erne	Apr-27	Apr-27	Rurals Model Build Handover Complete	Historical Rurals	Atkins	River WFD Model	St ll to be tendered		Pre Stage 1 - NI Water Scoping	TBC	
DA0919	Fivemiletown DA	2,955	Nov-22	May-24	Nov-23		IEM15	Erne	Apr-27	Apr-27	Stage 2 - Model Build & Verification	PC27	WSP	River WFD Model	St ll to be tendered	Fast track Options	Pre Stage 1 - NI Water Scoping	TBC	7
DA0920	Ballinamallard DA	1,824	Nov-22	May-24	Nov-23		IEM15	Erne	Apr-27	Apr-27	Stage 2 - Model Build & Verification	PC27	WSP	River WFD Model	St ll to be tendered	Fast track Options	Pre Stage 1 - NI Water Scoping	TBC	6
DA0921	Lack DA	160					IEM15	Erne	Apr-27	Apr-27	No Planned Study	No Planned Study	No Planned	River WFD Model	St ll to be tendered		Pre Stage 1 - NI Water Scoping	TBC	2
DA0922	Woaghternerry DA	34					IEM15	Erne	Apr-27	Apr-27	No Planned Study	No Planned Study	No Planned	River WFD Model	St ll to be tendered		Pre Stage 1 - NI Water Scoping	TBC	
DA0924	Coragh DA	17					IEM15	Erne	Apr-27	Apr-27	No Planned Study	No Planned Study	No Planned	River WFD Model	St ll to be tendered		Pre Stage 1 - NI Water Scoping	TBC	
DA0925	Derrylin DA	1,004	Nov-22	May-24	Nov-23		IEM15	Erne	Apr-27	Apr-27	Stage 2 - Model Build & Verification	PC27	WSP	River WFD Model	St ll to be tendered	Fast track Options	Pre Stage 1 - NI Water Scoping	TBC	4
DA0926	Aghnaskew DA	11					IEM15	Erne	Apr-27	Apr-27	No Planned Study	No Planned Study	No Planned	River WFD Model	St ll to be tendered		Pre Stage 1 - NI Water Scoping	TBC	
DA0927	Aughakillymaud DA	22					IEM15	Erne	Apr-27	Apr-27	No Planned Study	No Planned Study	No Planned	River WFD Model	St ll to be tendered		Pre Stage 1 - NI Water Scoping	TBC	
DA0928	Bohulkin DA	11					IEM15	Erne	Apr-27	Apr-27	No Planned Study	No Planned Study	No Planned	River WFD Model	St ll to be tendered		Pre Stage 1 - NI Water Scoping	TBC	
DA0929	Drumgay South DA	16					IEM15	Erne	Apr-27	Apr-27	No Planned Study	No Planned Study	No Planned	River WFD Model	St ll to be tendered		Pre Stage 1 - NI Water Scoping	TBC	
DA0930	Drumgay North DA	44					IEM15	Erne	Apr-27	Apr-27	No Planned Study	No Planned Study	No Planned	River WFD Model	St ll to be tendered		Pre Stage 1 - NI Water Scoping	TBC	
DA0931	Teemore DA	258	Apr-24	Apr-24			IEM15	Erne	Apr-27	Apr-27	Rurals Model Build	Rurals	Atkins	River WFD Model	St ll to be tendered		Pre Stage 1 - NI Water Scoping	TBC	2
DA0932	Donagh DA	262	Apr-24	Apr-24			IEM15	Erne	Apr-27	Apr-27	Rurals Model Build	Rurals	Atkins	River WFD Model	St ll to be tendered		Pre Stage 1 - NI Water Scoping	TBC	2
DA0933	Aghadrumsee DA	37					IEM15	Erne	Apr-27	Apr-27	No Planned Study	No Planned Study	No Planned	River WFD Model	St ll to be tendered		Pre Stage 1 - NI Water Scoping	TBC	
DA0934	Magheraveely DA	90					IEM15	Erne	Apr-27	Apr-27	No Planned Study	No Planned Study	No Planned	River WFD Model	St ll to be tendered		Pre Stage 1 - NI Water Scoping	TBC	1
DA0935	Brookeborough DA	784					IEM15	Erne	Apr-27	Apr-27	No Planned Study	No Planned Study	No Planned	River WFD Model	St ll to be tendered		Pre Stage 1 - NI Water Scoping	TBC	3
DA0936	Kilgarrett DA	11					IEM15	Erne	Apr-27	Apr-27	No Planned Study	No Planned Study	No Planned	River WFD Model	St ll to be tendered		Pre Stage 1 - NI Water Scoping	TBC	
DA0937	Mullynaburtlan DA	18					IEM15	Erne	Apr-27	Apr-27	No Planned Study	No Planned Study	No Planned	River WFD Model	St ll to be tendered		Pre Stage 1 - NI Water Scoping	TBC	
DA0938	Cornakessagh DA	11					IEM15	Erne	Apr-27	Apr-27	No Planned Study	No Planned Study	No Planned	River WFD Model	St ll to be tendered		Pre Stage 1 - NI Water Scoping	TBC	
DA0939	Ballycassidy DA	543	Jul-23	Jul-23			IEM15	Erne	Apr-27	Apr-27	Rurals Model Build Handover Complete	Rurals	Atkins	River WFD Model	St ll to be tendered		Pre Stage 1 - NI Water Scoping	TBC	4
DA0940	Ederney DA	871	Jul-23	Jul-23			IEM15	Erne	Apr-27	Apr-27	Rurals Model Build Handover Complete	Historical Rurals	Atkins	River WFD Model	St ll to be tendered		Pre Stage 1 - NI Water Scoping	TBC	4
DA0941	Lisnarrick DA	298					IEM15	Erne	Apr-27	Apr-27	No Planned Study	No Planned Study	No Planned	River WFD Model	St ll to be tendered		Pre Stage 1 - NI Water Scoping	TBC	1
DA0942	Enniskillen DA	28,926	May-21	May-21	Sep-22	Aug-23	IEM15	Erne	Apr-27	Apr-27	Stage 5 - Modelling Support	PC21 link	WSP	River WFD Model	St ll to be tendered		Pre Stage 1 - NI Water Scoping	TBC	38
DA0943	Florencecourt DA	326	Oct-22	Oct-22			IEM15	Erne	Apr-27	Apr-27	Rurals Model Build Handover Complete	Rurals	RPS	River WFD Model	St ll to be tendered		Pre Stage 1 - NI Water Scoping	TBC	5
DA0944	Carrontreemall DA	41					IEM15	Erne	Apr-27	Apr-27	No Planned Study	No Planned Study	No Planned	River WFD Model	St ll to be tendered		Pre Stage 1 - NI Water Scoping	TBC	
DA0945	Kinawley DA	354	Jul-23	Jul-23			IEM15	Erne	Apr-27	Apr-27	Rurals Model Build Handover Complete	Rurals	Atkins	River WFD Model	St ll to be tendered		Pre Stage 1 - NI Water Scoping	TBC	4
DA0946	Derryaghna DA	17					IEM15	Erne	Apr-27	Apr-27	No Planned Study	No Planned Study	No Planned	River WFD Model	St ll to be tendered		Pre Stage 1 - NI Water Scoping	TBC	2
DA0947	Springfield DA	90					IEM15	Erne	Apr-27	Apr-27	No Planned Study	No Planned Study	No Planned	River WFD Model	St ll to be tendered		Pre Stage 1 - NI Water Scoping	TBC	1
DA0949	Letterbreen DA	81					IEM15	Erne	Apr-27	Apr-27	No Planned Study	No Planned Study	No Planned	River WFD Model	St ll to be tendered		Pre Stage 1 - NI Water Scoping	TBC	2
DA0950	Belcoo DA	809	Oct-22	Oct-22			IEM15	Erne	Apr-27	Apr-27	Rurals Model Build Handover Complete	Rurals	RPS	River WFD Model	St ll to be tendered		Pre Stage 1 - NI Water Scoping	TBC	6
DA0954	Lisbellaw DA	1,531	Apr-22	Apr-22			IEM15	Erne	Apr-27	Apr-27	Rurals Model Build Handover Complete	PC27	RPS	River WFD Model	St ll to be tendered		Pre Stage 1 - NI Water Scoping	TBC	2

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DAP Information			Model Build Report Dates		Needs and Options Report Dates		Integrated Environmental Modelling (IEM) Dates				DAP Information			IEM Information			IEM Information		
DAP reference (linked to Table 40)	DAP Name	Population Served	Baseline Model Build Report Completion Date	Current Actual or Projected Model Build Report Completion Date	Baseline Needs and Options Report Completion Date	Current Actual or Projected Needs and Options Report Completion Date	IEM reference (linked to Table 40)	IEM Name	Baseline IEM Completion Date	Current Actual or Projected IEM Completion Date	Current Stage of DAP	DAP Model	DAP Consultant	IEM Model	IEM Consultant		Current Stage of IEM	DAP - IEM linkage	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
DAP_ID	DAP_Name	DAP_Pop	DAP_MBR_BL_Sub_Date	DAP_MBR_CAP_Sub_Date	DAP_NOR_BL_Sub_Date	DAP_NOR_CAP_Sub_Date	IEM_ID	IEM_Name	IEM_BL_Sub_Date	EM_CAP_Sub_Date	Select DAP Stage from Dropdown	DAP Model	DAP Consultant	Select IEM Model from Dropdown	IEM Consultant	Comments	Select IEM Stage from Dropdown	Select IEM linkage from Dropdown	No. of Assets
DA0955	Tempo DA	1,029	Nov-22	May-24	Nov-23		IEM15	Erne	Apr-27	Apr-27	Stage 2 - Model Build & Verification	PC27	WSP	River WFD Model	St ll to be tendered	Fast track Options	Pre Stage 1 - NI Water Scoping	TBC	2
DA0956	Lisnaskea DA	6,548	Nov-22	Dec-23	Nov-23		IEM15	Erne	Apr-27	Apr-27	Stage 2 - Model Build & Verification	PC21 link	WSP	River WFD Model	St ll to be tendered	Full Options	Pre Stage 1 - NI Water Scoping	TBC	13
DA0957	Drummack DA	17					IEM15	Erne	Apr-27	Apr-27	No Planned Study	No Planned Study	No Planned	River WFD Model	St ll to be tendered		Pre Stage 1 - NI Water Scoping	TBC	2
DA0958	Tamlaght DA	481					IEM15	Erne	Apr-27	Apr-27	No Planned Study			River WFD Model	St ll to be tendered		Pre Stage 1 - NI Water Scoping	TBC	1
DA0959	Ardess DA	49	Apr-24	Apr-24			IEM15	Erne	Apr-27	Apr-27	Rurals Model Build	Rurals	Atkins	River WFD Model	St ll to be tendered		Pre Stage 1 - NI Water Scoping	TBC	1
DA0960	Kesh DA	2,488	Jan-23	Mar-24	Nov-23		IEM15	Erne	Apr-27	Apr-27	Stage 2 - Model Build & Verification	PC27	RPS	River WFD Model	St ll to be tendered		Pre Stage 1 - NI Water Scoping	TBC	4
DA0961	Letterkeen DA	13	Apr-24	Apr-24			IEM15	Erne	Apr-27	Apr-27	Rurals Model Build	Rurals	Atkins	River WFD Model	St ll to be tendered		Pre Stage 1 - NI Water Scoping	TBC	1
DA0962	Tully DA	69					IEM15	Erne	Apr-27	Apr-27	No Planned Study	No Planned Study	No Planned	River WFD Model	St ll to be tendered		Pre Stage 1 - NI Water Scoping	TBC	1
DA0963	Derrygonne ly DA	1,049	Jan-23	Mar-24	Jan-24		IEM15	Erne	Apr-27	Apr-27	Stage 2 - Model Build & Verification	PC27	RPS	River WFD Model	St ll to be tendered		Pre Stage 1 - NI Water Scoping	TBC	3
DA0964	Monea DA	336	Jul-23	Jul-23			IEM15	Erne	Apr-27	Apr-27	Rurals Model Build Handover Complete	Historical Rurals	Atkins	River WFD Model	St ll to be tendered		Pre Stage 1 - NI Water Scoping	TBC	2
DA0965	Pettigo DA	0					IEM15	Erne	Apr-27	Apr-27	No Planned Study	No Planned Study	No Planned	River WFD Model	St ll to be tendered		Pre Stage 1 - NI Water Scoping	TBC	1
DA0966	Church Hill DA	60					IEM15	Erne	Apr-27	Apr-27	No Planned Study	No Planned Study	No Planned	River WFD Model	St ll to be tendered		Pre Stage 1 - NI Water Scoping	TBC	1
DA0967	Mullans Boa Island DA	10					IEM15	Erne	Apr-27	Apr-27	No Planned Study	No Planned Study	No Planned	River WFD Model	St ll to be tendered		Pre Stage 1 - NI Water Scoping	TBC	
DA0968	Blaney DA	16					IEM15	Erne	Apr-27	Apr-27	No Planned Study	No Planned Study	No Planned	River WFD Model	St ll to be tendered		Pre Stage 1 - NI Water Scoping	TBC	
DA0969	Castle Archdale DA	829	Apr-24	Apr-24			IEM15	Erne	Apr-27	Apr-27	Rurals Model Build	Rurals	Atkins	River WFD Model	St ll to be tendered		Pre Stage 1 - NI Water Scoping	TBC	3
DA0970	Scribbagh DA	16					IEM15	Erne	Apr-27	Apr-27	No Planned Study	No Planned Study	No Planned	River WFD Model	St ll to be tendered		Pre Stage 1 - NI Water Scoping	TBC	2
DA0971	Belleek Fermanagh DA	1,780	Jan-23	Mar-24	Nov-23		IEM15	Erne	Apr-27	Apr-27	Stage 2 - Model Build & Verification	PC27	RPS	River WFD Model	St ll to be tendered		Pre Stage 1 - NI Water Scoping	TBC	6
DA0972	Corry DA	8					IEM15	Erne	Apr-27	Apr-27	No Planned Study	No Planned Study	No Planned	River WFD Model	St ll to be tendered		Pre Stage 1 - NI Water Scoping	TBC	
DA0973	Rosscor DA	11					IEM15	Erne	Apr-27	Apr-27	No Planned Study	No Planned Study	No Planned	River WFD Model	St ll to be tendered		Pre Stage 1 - NI Water Scoping	TBC	
DA0974	Garrison DA	640	Jul-23	Jul-23			IEM15	Erne	Apr-27	Apr-27	Rurals Model Build Handover Complete	Historical Rurals	Atkins	River WFD Model	St ll to be tendered		Pre Stage 1 - NI Water Scoping	TBC	4
DA0975	Tummery DA	38					IEM15	Erne	Apr-27	Apr-27	No Planned Study	No Planned Study	No Planned	River WFD Model	St ll to be tendered		Pre Stage 1 - NI Water Scoping	TBC	
DA0976	Kilskeery DA	72					IEM15	Erne	Apr-27	Apr-27	No Planned Study	No Planned Study	No Planned	River WFD Model	St ll to be tendered		Pre Stage 1 - NI Water Scoping	TBC	
DA0977	Dromore Tyrone DA	1,871	Sep-23		Sep-24		IEM09	Foyle	Apr-23	Oct-23	DAP not issued yet	PC27	TBC	Shel fish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	3
DA0978	Badoney DA	17					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	
DA0979	Corkill Kilskeery DA	21					IEM15	Erne	Apr-27	Apr-27	No Planned Study	No Planned Study	No Planned	River WFD Model	St ll to be tendered		Pre Stage 1 - NI Water Scoping	TBC	
DA0980	Moorfield DA	18					IEM15	Erne	Apr-27	Apr-27	No Planned Study	No Planned Study	No Planned	River WFD Model	St ll to be tendered		Pre Stage 1 - NI Water Scoping	TBC	
DA0981	Cornamuck DA	23					IEM15	Erne	Apr-27	Apr-27	No Planned Study	No Planned Study	No Planned	River WFD Model	St ll to be tendered		Pre Stage 1 - NI Water Scoping	TBC	
DA0982	Trillick DA	625	Apr-24	Apr-24			IEM15	Erne	Apr-27	Apr-27	Rurals Model Build	Rurals	Atkins	River WFD Model	St ll to be tendered		Pre Stage 1 - NI Water Scoping	TBC	3
DA0983	Legcloghfin Road Cranagh DA	98	Apr-24	Apr-24			IEM09	Foyle	Apr-23	Oct-23	Rurals Model Build	Rurals	Atkins	Shel fish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	3
DA0984	Drumnakilly DA	100	Apr-24	Apr-24			IEM09	Foyle	Apr-23	Oct-23	Rurals Model Build	Rurals	Atkins	Shel fish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	2
DA0985	Tursallagh DA	19					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	
DA0986	Lough Macrory DA	664	Jul-23	Jul-23			IEM09	Foyle	Apr-23	Oct-23	Rurals Model Build Handover Complete	Historical Rurals	Atkins	Shel fish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	2
DA0987	Altamuskin North DA	125	Apr-24	Apr-24			IEM09	Foyle	Apr-23	Oct-23	Rurals Model Build	Rurals	Atkins	Shel fish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	1
DA0988	Carrickmore DA	1,241	Jan-24		Dec-24		IEM09	Foyle	Apr-23	Oct-23	DAP not issued yet	PC27	TBC	Shel fish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	3
DA0989	Greencastle Tyrone DA	358	Jul-23	Jul-23			IEM09	Foyle	Apr-23	Oct-23	Rurals Model Build Handover Complete	Historical Rurals	Atkins	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	
DA0990	Mountfield DA	497	Jul-23	Jul-23			IEM09	Foyle	Apr-23	Oct-23	Rurals Model Build Handover Complete	Historical Rurals	Atkins	Shel fish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	4
DA0991	Corickmore DA	18					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	
DA0992	Rousky DA	41					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	
DA0993	Gortin DA	750	Oct-22	Oct-22			IEM09	Foyle	Apr-23	Oct-23	Rurals Model Build Handover Complete	Rurals	RPS	Shel fish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	2
DA0994	Dunmullan DA	67					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	
DA0995	Plumbridge DA	451	Apr-24	Apr-24			IEM09	Foyle	Apr-23	Oct-23	Rurals Model Build	Rurals	Atkins	Shel fish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	4
DA0996	Newtownstewart DA	2,530	Jan-24		Dec-24		IEM09	Foyle	Apr-23	Oct-23	DAP not issued yet	PC27	TBC	Shel fish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	6
DA0997	Mountjoy Brockagh DA	437	Jul-23	Jul-23			IEM05	Blackwater	Oct-23	Apr-25	Rurals Model Build Handover Complete	Rurals	Atkins	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	3
DA0998	Knockmoyle DA	221					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	1
DA0999	Killydart Road DA	0					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	
DA1000	Eskragh DA	18					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	
DA1001	Garvaghy Ballygawley DA	225	Apr-24	Apr-24			IEM09	Foyle	Apr-23	Oct-23	Rurals Model Build	Rurals	Atkins	Shel fish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	3
DA1002	Legacurry Cortaclare DA	18					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	
DA1003	Beragh DA	1,688	Jan-24		Dec-24		IEM09	Foyle	Apr-23	Oct-23	DAP not issued yet	PC27	TBC	Shel fish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	4
DA1004	Dobbs South DA	0					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	
DA1005	Dobbs North DA	0					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	
DA1006	Hall DA	0					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	
DA1007	Creevanagar DA	15					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	
DA1008	Omagh DA	35,652	Nov-20	Nov-20	Nov-22	Sep-23	IEM09	Foyle	Apr-23	Oct-23	DAP Stage 4 Handover Complete		WSP	Shel fish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	36
DA1009	Edenderry Tyrone DA	53					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	1
DA1010	Arvalee DA	78					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	2
DA1011	Tirquin DA	24					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	
DA1012	Seskinore DA	402	Jul-23	Jul-23			IEM09	Foyle	Apr-23	Oct-23	Rurals Model Build Handover Complete	Historical Rurals	Atkins	Shel fish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	2
DA1013	Cavanacaw DA	141	Apr-24	Apr-24			IEM09	Foyle	Apr-23	Oct-23	Rurals Model Build	Rurals	Atkins	Shel fish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	2
DA1014	Tattysa lagh DA	79					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	2
DA1015	Fintona DA	1,937	Jan-24		Dec-24		IEM09	Foyle	Apr-23	Oct-23	DAP not issued yet	PC27	TBC	Shel fish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	6
DA1016	Ballygowans DA	12					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	
DA1017	Carnalea Road DA	16					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	
DA1018	Ballynamullan DA	12					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	
DA1019	Sion Mills DA	3,551	Jan-24		Jan-25		IEM09	Foyle	Apr-23	Oct-23	DAP not issued yet	PC27	TBC	Shel fish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	3
DA1020	Victoria Bridge DA	540	Apr-24	Apr-24			IEM09	Foyle	Apr-23	Oct-23	Rurals Model Build	Rurals	Atkins	Shel fish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	2
DA1021	Douglas Bridge DA	189					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	1
DA1022	Strabane DA	24,419	Jul-22	Jul-23	Jan-23	Jun-23	IEM09	Foyle	Apr-23	Oct-23	Stage 5 - Modelling Support	PC21 link	RPS	Shel fish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	IEM DAP Pollutograph Output	17
DA1023	Castletown DA	17					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	
DA1024	Ardstraw DA	298	Oct-22	Oct-22			IEM09	Foyle	Apr-23	Oct-23	Rurals Model Build Handover Complete	Rurals	RPS	Shel fish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	2
DA1025	Greenv lle DA	29					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	
DA1026	Magheracoltan DA	18					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	1
DA1027	Ballee Road Tullyard DA	14					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	
DA1028	Letterbin DA	61					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	2
DA1029	Garvetagh DA	67					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	1
DA1030	Castlederg DA	5,680	Nov-22	Jun-24	Nov-23		IEM09	Foyle	Apr-23	Oct-23	Stage 2 - Model Build & Verification	PC27	WSP	Shel fish Water Compliance Model	AFBI and Longline Environmental (LL	Full Options w th view flooding	SWELL complete, S-O not commissioned	NMC Pollutograph Output	9
DA1031	Crew Bridge DA	19					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	
DA1032	Spamount DA	903	Apr-24	Apr-24			IEM09	Foyle	Apr-23	Oct-23	Rurals Model Build	Rurals	Atkins	Shel fish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	3
DA1033	Dooish DA	139	Apr-24	Apr-24			IEM09	Foyle	Apr-23	Oct-23	Rurals Model Build	Rurals	Atkins	Shel fish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	1
DA1034	Hunter Bungalows DA	18					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	
DA1035	Killeter DA	172	Apr-24	Apr-24			IEM09	Foyle	Apr-23	Oct-23	Rurals Model Build	Rurals	Atkins	Shel fish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	2
DA1036	Letterbin Aghasessy DA	0					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	
DA1037	Killen DA	397	Apr-24	Apr-24			IEM09	Foyle	Apr-23	Oct-23	Rurals Model Build	Rurals	Atkins	Shel fish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	3
DA1038	Drumquin DA	1,002	Jul-23	Jul-23			IEM09	Foyle	Apr-23	Oct-23	Rurals Model Build Handover Complete	Historical Rurals	Atkins	Shel fish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	3
DA1039	Cavandarragh Road DA	0					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	
DA1040	Drumlegagh Church Road DA	116					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	1
DA1041	Camus DA	96					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	1
DA1042	Drumlegagh DA	5					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	
DA1043	Kilclean Road DA	10					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	

A			B		C		D				E			F		G	H	I	J
DAP Information			Model Build Report Dates		Needs and Options Report Dates		Integrated Environmental Modelling (IEM) Dates				DAP Information			IEM Information			IEM Information		
DAP reference (linked to Table 40)	DAP Name	Population Served	Baseline Model Build Report Completion Date	Current Actual or Projected Model Build Report Completion Date	Baseline Needs and Options Report Completion Date	Current Actual or Projected Needs and Options Report Completion Date	IEM reference (linked to Table 40)	IEM Name	Baseline IEM Completion Date	Current Actual or Projected IEM Completion Date	Current Stage of DAP	DAP Model	DAP Consultant	IEM Model	IEM Consultant		Current Stage of IEM	DAP - IEM linkage	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
DAP_ID	DAP_Name	DAP_Pop	DAP_MBR_BL_Sub_Date	DAP_MBR_CAP_Sub_Date	DAP_NOR_BL_Sub_Date	DAP_NOR_CAP_Sub_Date	IEM_ID	IEM_Name	IEM_BL_Sub_Date	EM_CAP_Sub_Date	Select DAP Stage from Dropdown	DAP Model	DAP Consultant	Select IEM Model from Dropdown	IEM Consultant	Comments	Select IEM Stage from Dropdown	Select IEM linkage from Dropdown	No. of Assets
DA1044	Edergoole Road DA	9					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	
DA1045	Scotstown Road DA	3					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	
DA1046	McNally Park DA	17					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	
DA1047	Corickbeg Road DA	6					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	
DA1048	Bearney Road DA	12					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	
DA1049	Clogher DA	1,344	Jul-23	Jul-23			IEM05	Blackwater	Oct-23	Apr-25	Rurals Model Build Handover Complete	Historical Rurals	Atkins	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	4
DA1050	Augher DA	660	Jul-23	Jul-23			IEM05	Blackwater	Oct-23	Apr-25	Rurals Model Build Handover Complete	Rurals	Atkins	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	2
DA1051	St Johns Terrace DA	30					IEM17	Upper Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA1052	St Annes Terrace DA	18					IEM17	Upper Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA1053	St Marys Terrrace DA	18					IEM17	Upper Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA1054	Ballycoshone Road DA	6					IEM17	Upper Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	1
DA1055	Drumnascamph DA	36					IEM17	Upper Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA1056	Hilltown Road DA	11					IEM08	Carlingford	Dec-22	Feb-24	No Planned Study	No Planned Study	No Planned	Shel fish Compliance & River WFD Model	Intertek	DA physically within IEM boundary however set up as a non-modelled catchment inpu	Excluded DA		
DA1057	Glen View DA	8					IEM08	Carlingford	Dec-22	Feb-24	No Planned Study	No Planned Study	No Planned	Shel fish Compliance & River WFD Model	Intertek	DA physically within IEM boundary however set up as a non-modelled catchment inpu	Excluded DA		
DA1058	Newry Road DA	9					IEM08	Carlingford	Dec-22	Feb-24	No Planned Study	No Planned Study	No Planned	Shel fish Compliance & River WFD Model	Intertek	DA physically within IEM boundary however set up as a non-modelled catchment inpu	Excluded DA		
DA1059	Lurgancahone Road North DA	9					IEM08	Carlingford	Dec-22	Feb-24	No Planned Study	No Planned Study	No Planned	Shel fish Compliance & River WFD Model	Intertek	DA physically within IEM boundary however set up as a non-modelled catchment inpu	Excluded DA		
DA1060	Lurgancahone Road South DA	9					IEM08	Carlingford	Dec-22	Feb-24	No Planned Study	No Planned Study	No Planned	Shel fish Compliance & River WFD Model	Intertek	DA physically within IEM boundary however set up as a non-modelled catchment inpu	Excluded DA		
DA1061	Ballymaconaghy Road DA	6					IEM08	Carlingford	Dec-22	Feb-24	No Planned Study	No Planned Study	No Planned	Shel fish Compliance & River WFD Model	Intertek	DA physically within IEM boundary however set up as a non-modelled catchment inpu	Excluded DA		
DA1062	Ballyrussel DA	44					IEM08	Carlingford	Dec-22	Feb-24	No Planned Study	No Planned Study	No Planned	Shel fish Compliance & River WFD Model	Intertek	DA physically within IEM boundary however set up as a non-modelled catchment inpu	Excluded DA		
DA1063	Drumgrevagh DA	6					IEM08	Carlingford	Dec-22	Feb-24	No Planned Study	No Planned Study	No Planned	Shel fish Compliance & River WFD Model	Intertek	DA physically within IEM boundary however set up as a non-modelled catchment inpu	Excluded DA		
DA1064	Kilbroney Park DA	10					IEM08	Carlingford	Dec-22	Feb-24	No Planned Study	No Planned Study	No Planned	Shel fish Compliance & River WFD Model	Intertek	DA physically within IEM boundary however set up as a non-modelled catchment inpu	Excluded DA		
DA1065	Shinn Road DA	19					IEM08	Carlingford	Dec-22	Feb-24	No Planned Study	No Planned Study	No Planned	Shel fish Compliance & River WFD Model	Intertek	DA physically within IEM boundary however set up as a non-modelled catchment inpu	Excluded DA		
DA1066	Glascar Road DA	3					IEM08	Carlingford	Dec-22	Feb-24	No Planned Study	No Planned Study	No Planned	Shel fish Compliance & River WFD Model	Intertek	DA physically within IEM boundary however set up as a non-modelled catchment inpu	Excluded DA		
DA1067	Demoan Villas DA	17					IEM08	Carlingford	Dec-22	Feb-24	No Planned Study	No Planned Study	No Planned	Shel fish Compliance & River WFD Model	Intertek	DA physically within IEM boundary however set up as a non-modelled catchment inpu	Excluded DA		
DA1068	Corcreechy Road DA	9					IEM08	Carlingford	Dec-22	Feb-24	No Planned Study	No Planned Study	No Planned	Shel fish Compliance & River WFD Model	Intertek	DA physically within IEM boundary however set up as a non-modelled catchment inpu	Excluded DA		
DA1069	Killeen Newry DA	108					Not in IEM Catchment	Not in IEM Catchment			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	1
DA1070	Mountain View Drumintee DA	116					Not in IEM Catchment	Not in IEM Catchment			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	1
DA1071	Crossmaglen Road DA	0					Not in IEM Catchment	Not in IEM Catchment			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA1072	Silverbridge DA	157					Not in IEM Catchment	Not in IEM Catchment			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	2
DA1073	Oliver Plunkett Park DA	94					Not in IEM Catchment	Not in IEM Catchment			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	2
DA1074	St Brigids V llas DA	30					Not in IEM Catchment	Not in IEM Catchment			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA1075	ORahilly Park DA	57					Not in IEM Catchment	Not in IEM Catchment			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA1076	Magee Terrace DA	15					IEM17	Upper Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA1077	McKinley Park DA	63					Not in IEM Catchment	Not in IEM Catchment			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	1
DA1078	Lesh Road DA	0					IEM17	Upper Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA1079	Lough Road DA	9					Not in IEM Catchment	Not in IEM Catchment			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA1080	Fofannybane DA	3					IEM17	Upper Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA1081	Commons School Road DA	3					IEM08	Carlingford	Dec-22	Feb-24	No Planned Study	No Planned Study	No Planned	Shel fish Compliance & River WFD Model	Intertek	DA physically within IEM boundary however set up as a non-modelled catchment inpu	Excluded DA		
DA1082	Lislea DA	205	Apr-24	Apr-24			Not in IEM Catchment	Not in IEM Catchment			Rurals Model Build	Rurals	Atkins	No Planned Study	No Planned Study		No Planned Study	No Planned Study	2
DA1083	Glaskerbeg Road DA	3					IEM08	Carlingford	Dec-22	Feb-24	No Planned Study	No Planned Study	No Planned	Shel fish Compliance & River WFD Model	Intertek	DA physically within IEM boundary however set up as a non-modelled catchment inpu	Excluded DA		
DA1084	Fofanny DA	3					IEM03	Newcastle	Dec-22	Nov-23	No Planned Study	No Planned Study	No Planned	Bathing Water & River WFD Model	Intertek	DA physically within IEM boundary howev	Stage 4 - Interventions	NMC Pollutograph Output	
DA1085	Ballintemple WTW DA	6					Not in IEM Catchment	Not in IEM Catchment			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA1086	Ballymaconaghy WTW DA	3					IEM08	Carlingford	Dec-22	Feb-24	No Planned Study	No Planned Study	No Planned	Shel fish Compliance & River WFD Model	Intertek	DA physically within IEM boundary however set up as a non-modelled catchment inpu	Excluded DA		
DA1087	Ballygowan Road Ballygowan South DA	6					IEM08	Carlingford	Dec-22	Feb-24	No Planned Study	No Planned Study	No Planned	Shel fish Compliance & River WFD Model	Intertek	DA physically within IEM boundary however set up as a non-modelled catchment inpu	Excluded DA		
DA1088	Drumard Primate DA	35	Oct-22	Oct-22			IEM05	Blackwater	Oct-23	Apr-25	Rurals Model Build Handover Complete	Rurals	RPS	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	1
DA1089	Grove Road DA	6					IEM11	Belfast	Dec-22	Mar-24	No Planned Study	No Planned Study	No Planned	Shellfish Compliance & River WFD Model	AFBI and Longline Environmental (LLE)		Stage 4 - Interventions	NMC Pollutograph Output	
DA1090	Castlewellan Road Dromore DA	0					IEM11	Belfast	Dec-22	Mar-24	No Planned Study	No Planned Study	No Planned	Shellfish Compliance & River WFD Model	AFBI and Longline Environmental (LLE)		Stage 4 - Interventions	NMC Pollutograph Output	
DA1092	Middle Braniel Road DA	12					IEM06	Strangford	Jun-23	Jan-25	No Planned Study	No Planned Study	No Planned	Shel fish Compliance & River WFD Model	Intertek		Stage 2 - Model Build & Verification	Excluded DA	
DA1093	Charles Sheils DA	0					Not in IEM Catchment	Not in IEM Catchment			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA1095	Burren Road DA	12					IEM03	Newcastle	Dec-22	Nov-23	No Planned Study	No Planned Study	No Planned	Bathing Water & River WFD Model	Intertek	DA physically within IEM boundary howev	Stage 4 - Interventions	NMC Pollutograph Output	
DA1097	Ballyardel DA	12	Oct-22	Oct-22			IEM08	Carlingford	Dec-22	Feb-24	Rurals Model Build Handover Complete	Rurals	RPS	Shel fish Compliance & River WFD Model	Intertek	DA physically within IEM boundary however set up as a non-modelled catchment inpu	Excluded DA		1
DA1098	Attical DA	234					IEM03	Newcastle	Dec-22	Nov-23	No Planned Study	No Planned Study	No Planned	Bathing Water & River WFD Model	Intertek	DA physically within IEM boundary howev	Stage 4 - Interventions	NMC Pollutograph Output	1
DA1099	Ballymaderfy DA	69					IEM08	Carlingford	Dec-22	Feb-24	No Planned Study	No Planned Study	No Planned	Shel fish Compliance & River WFD Model	Intertek	DA physically within IEM boundary however set up as a non-modelled catchment inpu	Excluded DA		
DA1100	Cranfield Kilkeel DA	4,393	Oct-18	Oct-18	Jun-21	Nov-23	IEM08	Carlingford	Dec-22	Feb-24	Stage 2 - Handover Complete	PC21 link	AECOM	Shellfish Compliance & River WFD Model	Intertek	Carlingford IEM Project elements uploade	Stage 4 - Interventions	IEM DAP Pollutograph Output	3
DA1101	Newcastle Road Drumaness DA	0					IEM06	Strangford	Jun-23	Jan-25	No Planned Study	No Planned Study	No Planned	Shel fish Compliance & River WFD Model	Intertek		Stage 2 - Model Build & Verification	Excluded DA	
DA1102	Drumaroad Draper Hill DA	3					IEM06	Strangford	Jun-23	Jan-25	No Planned Study	No Planned Study	No Planned	Shel fish Compliance & River WFD Model	Intertek		Stage 2 - Model Build & Verification	Excluded DA	
DA1103	Silent Va ley One DA	7					IEM03	Newcastle	Dec-22	Nov-23	No Planned Study	No Planned Study	No Planned	Bathing Water & River WFD Model	Intertek	DA physically within IEM boundary howev	Stage 4 - Interventions	NMC Pollutograph Output	
DA1104	Silent Va ley Two DA	7					IEM03	Newcastle	Dec-22	Nov-23	No Planned Study	No Planned Study	No Planned	Bathing Water & River WFD Model	Intertek	DA physically within IEM boundary howev	Stage 4 - Interventions	NMC Pollutograph Output	
DA1105	Silent Va ley Three DA	7					IEM03	Newcastle	Dec-22	Nov-23	No Planned Study	No Planned Study	No Planned	Bathing Water & River WFD Model	Intertek	DA physically within IEM boundary howev	Stage 4 - Interventions	NMC Pollutograph Output	
DA1106	Silent Va ley Four DA	7					IEM03	Newcastle	Dec-22	Nov-23	No Planned Study	No Planned Study	No Planned	Bathing Water & River WFD Model	Intertek	DA physically within IEM boundary howev	Stage 4 - Interventions	NMC Pollutograph Output	
DA1107	Silent Va ley Five DA	7					IEM03	Newcastle	Dec-22	Nov-23	No Planned Study	No Planned Study	No Planned	Bathing Water & River WFD Model	Intertek	DA physically within IEM boundary howev	Stage 4 - Interventions	NMC Pollutograph Output	
DA1108	Lough Island Reavy WTW DA	3					IEM17	Upper Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA1109	Leitrim DA	203					IEM01	Dundrum	Dec-22	Dec-22	No Planned Study	No Planned Study	No Planned	Shel fish Water Compliance Model	AFBI		Stage 5 - Modelling Support	TBC	2
DA1110	Upper Malone Road DA	50					IEM11	Belfast	Dec-22	Mar-24	No Planned Study	No Planned Study	No Planned	Shellfish Compliance & River WFD Model	AFBI and Longline Environmental (LLE)		Stage 4 - Interventions	NMC Pollutograph Output	
DA1114	Drumalig Road North DA	6					IEM11	Belfast	Dec-22	Mar-24	No Planned Study	No Planned Study	No Planned	Shellfish Compliance & River WFD Model	AFBI and Longline Environmental (LLE)		Stage 4 - Interventions	NMC Pollutograph Output	
DA1115	Drumalig Road South DA	0					IEM11	Belfast	Dec-22	Mar-24	No Planned Study	No Planned Study	No Planned	Shellfish Compliance & River WFD Model	AFBI and Longline Environmental (LLE)		Stage 4 - Interventions	NMC Pollutograph Output	
DA1116	Station Road DA	5					IEM06	Strangford	Jun-23	Jan-25	No Planned Study	No Planned Study	No Planned	Shel fish Compliance & River WFD Model	Intertek		Stage 2 - Model Build & Verification	Excluded DA	
DA1117	Moneyreagh Road Galloway DA	5					IEM06	Strangford	Jun-23	Jan-25	No Planned Study	No Planned Study	No Planned	Shel fish Compliance & River WFD Model	Intertek		Stage 2 - Model Build & Verification	Excluded DA	
DA1118	Comber Road DA	5					IEM06	Strangford	Jun-23	Jan-25	No Planned Study	No Planned Study	No Planned	Shel fish Compliance & River WFD Model	Intertek		Stage 2 - Model Build & Verification	Excluded DA	
DA1119	Killinchy Road DA	12					IEM06	Strangford	Jun-23	Jan-25	No Planned Study	No Planned Study	No Planned	Shel fish Compliance & River WFD Model	Intertek		Stage 2 - Model Build & Verification	Excluded DA	
DA1120	Kirkland Road DA	0					IEM06	Strangford	Jun-23	Jan-25	No Planned Study	No Planned Study	No Planned	Shel fish Compliance & River WFD Model	Intertek		Stage 2 - Model Build & Verification	Excluded DA	
DA1121	Moss Road DA	0					IEM06	Strangford	Jun-23	Jan-25	No Planned Study	No Planned Study	No Planned	Shel fish Compliance & River WFD Model	Intertek		Stage 2 - Model Build & Verification	Excluded DA	
DA1122	Pinehi l Road DA	0					IEM11	Belfast	Dec-22	Mar-24	No Planned Study	No Planned Study	No Planned	Shel fish Compliance & River WFD Model	AFBI and Longline Environmental (LLE)		Stage 4 - Interventions	NMC Pollutograph Output	
DA1123	Ballyalton Road DA	5					IEM06	Strangford	Jun-23	Jan-25	No Planned Study	No Planned Study	No Planned	Shel fish Compliance & River WFD Model	Intertek		Stage 2 - Model Build & Verification	Excluded DA	
DA1126	Horse Park DA	6					IEM11	Belfast	Dec-22	Mar-24	No Planned Study	No Planned Study	No Planned	Shel fish Compliance & River WFD Model	AFBI and Longline Environmental (LLE)		Stage 4 - Interventions	NMC Pollutograph Output	
DA1127	Dunore Point WTW One DA	3					Not in IEM Catchment	Not in IEM Catchment			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA1128	Dunore Point WTW Two DA	3					Not in IEM Catchment	Not in IEM Catchment			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA1129	Dunore Point WTW Three DA	3					Not in IEM Catchment	Not in IEM Catchment			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA1130	Ballinderry Road DA	9					IEM11	Belfast	Dec-22	Mar-24	No Planned Study	No Planned Study	No Planned	Shel fish Compliance & River WFD Model	AFBI and Longline Environmental (LLE)		Stage 4 - Interventions	NMC Pollutograph Output	
DA1131	Killylane WTW DA	3					IEM14	Maine	Sep-23	Aug-24	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	
DA1132	Culmore Point DA	19					Not in IEM Catchment	Not in IEM Catchment			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA1133	Longfield Eglinton DA	235					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	
DA1134	Airfield Road DA	0					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	
DA1135	Killea WTW DA	3					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	
DA1136	Carrowclare DA	286	Apr-24	Apr-24			IEM09	Foyle	Apr-23	Oct-23	Rurals Model Build	Rurals	Atkins	Shel fish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	2
DA1137	Rosscolban DA	3					IEM15	Erne	Apr-27	Apr-27	No Planned Study	No Planned Study	No Planned	River WFD Model	St ll to be tendered		Pre Stage 1 - NI Water Scoping	TBC	
DA1138	Fardrum DA	0					IEM15	Erne	Apr-27	Apr-27	No Planned Study	No Planned Study	No Planned	River WFD Model	St ll to be tendered		Pre Stage 1 - NI Water Scoping	TBC	
DA1139	Derg WTW DA	3					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	
DA1140	Glenhordial WTW DA	3					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	

A			B		C		D				E			F		G	H	I	J
DAP Information			Model Build Report Dates		Needs and Options Report Dates		Integrated Environmental Modelling (IEM) Dates				DAP Information			IEM Information			IEM Information		
DAP reference (linked to Table 40)	DAP Name	Population Served	Baseline Model Build Report Completion Date	Current Actual or Projected Model Build Report Completion Date	Baseline Needs and Options Report Completion Date	Current Actual or Projected Needs and Options Report Completion Date	IEM reference (linked to Table 40)	IEM Name	Baseline IEM Completion Date	Current Actual or Projected IEM Completion Date	Current Stage of DAP	DAP Model	DAP Consultant	IEM Model	IEM Consultant		Current Stage of IEM	DAP - IEM linkage	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
DAP_ID	DAP_Name	DAP_Pop	DAP_MBR_BL_Sub_Date	DAP_MBR_CAP_Sub_Date	DAP_NOR_BL_Sub_Date	DAP_NOR_CAP_Sub_Date	IEM_ID	IEM_Name	IEM_BL_Sub_Date	EM_CAP_Sub_Date	Select DAP Stage from Dropdown	DAP Model	DAP Consultant	Select IEM Model from Dropdown	IEM Consultant	Comments	Select IEM Stage from Dropdown	Select IEM linkage from Dropdown	No. of Assets
DA1141	Lough Bradan WTW DA	6					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	
DA1142	Lough Macrory WTW DA	3					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	
DA1143	Clady Tyrone DA	825	Oct-22	Oct-22			IEM09	Foyle	Apr-23	Oct-23	Rurals Model Build Handover Complete	Rurals	RPS	Shel fish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	3
DA1144	Drumlegagh Road South DA	11					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	
DA1145	Conthem Road DA	32					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	
DA1147	Rosslea DA	755	Jul-23	Jul-23			IEM15	Erne	Apr-27	Apr-27	Rurals Model Build Handover Complete	Rurals	Atkins	River WFD Model	St ll to be tendered		Pre Stage 1 - NI Water Scoping	TBC	3
DA1148	Moneyreagh Road Pipers DA	8					IEM06	Strangford	Jun-23	Jan-25	No Planned Study	No Planned Study	No Planned	Shel fish Compliance & River WFD Model	Intertek		Stage 2 - Model Build & Verification	Excluded DA	
DA1149	Stewartstown DA	1,324	Feb-22	Sep-22	Jun-23	Feb-24	IEM13	Ballinderry	Sep-23	Jun-24	DAP Stage 4 Handover Complete	PC21 link	Atkins	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	6
DA1150	Ballyroney DA	0					IEM17	Upper Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA1152	Moneycarrie DA	17	Apr-24	Apr-24			IEM16	Lower Bann			Rurals Model Build	Rurals	Atkins	No Planned Study	No Planned Study		No Planned Study	No Planned Study	1
DA1153	Airfield Road Meat Plant DA	0					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	
DA1154	McLean Road South DA	0					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	
DA1155	Mountcastle DA	11					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	
DA1156	Beltrim DA	15					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	
DA1157	Fincarn DA	104					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	1
DA1158	Moss-side DA	481	Apr-24	Apr-24			IEM10	Bush			Rurals Model Build	Rurals	Atkins	No Planned Study	No Planned Study		No Planned Study	No Planned Study	2
DA1160	Corrinshigo DA	0					IEM08	Carlingford	Dec-22	Feb-24	No Planned Study	No Planned Study	No Planned	Shel fish Compliance & River WFD Model	Intertek	DA physically within IEM boundary however set up as a non-modelled catchment inpu	Excluded DA		
DA1162	Lower Rashee Road DA	10					IEM19	Six Mile Water			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA1163	Tullynakill Road DA	44					IEM06	Strangford	Jun-23	Jan-25	No Planned Study	No Planned Study	No Planned	Shel fish Compliance & River WFD Model	Intertek		Stage 2 - Model Build & Verification	Excluded DA	
DA1165	Maghera Castlewellan DA	358	Jul-23	Jul-23			IEM01	Dundrum	Dec-22	Dec-22	Rurals Model Build Handover Complete	Rurals	Atkins	Shel fish Water Compliance Model	AFBI		Stage 5 - Modelling Support	TBC	4
DA1166	Legacurry DA	156					IEM11	Belfast	Dec-22	Mar-24	No Planned Study	No Planned Study	No Planned	Shellfish Compliance & River WFD Model	AFBI and Longline Environmental (LLE)		Stage 4 - Interventions	NMC Pollutograph Output	1
DA1167	Mountjoy Omagh DA	135	Jul-23	Jul-23			IEM09	Foyle	Apr-23	Oct-23	Rurals Model Build Handover Complete	Historical Rurals	Atkins	Shel fish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	1
DA1168	Arney DA	234	Apr-24	Apr-24			IEM15	Erne	Apr-27	Apr-27	Rurals Model Build	Rurals	Atkins	River WFD Model	St ll to be tendered		Pre Stage 1 - NI Water Scoping	TBC	2
DA1169	Old Holywood Road DA	9					IEM11	Belfast	Dec-22	Mar-24	No Planned Study	No Planned Study	No Planned	Shellfish Compliance & River WFD Model	AFBI and Longline Environmental (LLE)		Stage 4 - Interventions	NMC Pollutograph Output	
DA1170	Belleek Graffy DA	3					IEM15	Erne	Apr-27	Apr-27	No Planned Study	No Planned Study	No Planned	River WFD Model	St ll to be tendered		Pre Stage 1 - NI Water Scoping	TBC	
DA1171	Reaskmore Road DA	15					IEM05	Blackwater	Oct-23	Apr-25	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	
DA1172	Olivers Close DA	0					IEM07	Ards			No Planned Study	No Planned Study	No Planned	Bathing Water & River WFD Model	Paused		Paused	TBC	
DA1174	Arch View Terrace DA	0					IEM08	Carlingford	Dec-22	Feb-24	No Planned Study	No Planned Study	No Planned	Shel fish Compliance & River WFD Model	Intertek	DA physically within IEM boundary however set up as a non-modelled catchment inpu	Excluded DA		
DA1175	Ballystrudder Whitehead DA	7,631					IEM02	Larne	Mar-23	Nov-23	LTV on Telemetry only Complete	PC27	AH	Bathing Water & She lfish Compliance Model	Intertek	Larne IEM Project elements uploaded to	Stage 4 - Interventions	LTV DAP Pollutograph Output	11
DA1176	Ballykinler MOD DA	0					IEM01	Dundrum	Dec-22	Dec-22	No Planned Study	No Planned Study	No Planned	Shel fish Water Compliance Model	AFBI		Stage 5 - Modelling Support	TBC	
DA1177	Magilligan DA	5,680	Jan-24		Jan-25		IEM12	North Coast			DAP not issued yet		TBC	Bathing Water Compliance Model	Paused		Stage 1 - Complete - project paused	TBC	13
DA1178	Spelga Dam DA	3					IEM17	Upper Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA1179	The Oyster Yard DA	39					IEM06	Strangford	Jun-23	Jan-25	No Planned Study	No Planned Study	No Planned	Shel fish Compliance & River WFD Model	Intertek		Stage 2 - Model Build & Verification	Excluded DA	
DA1181	Ringneill Road 1-5 DA	8					IEM06	Strangford	Jun-23	Jan-25	No Planned Study	No Planned Study	No Planned	Shel fish Compliance & River WFD Model	Intertek		Stage 2 - Model Build & Verification	Excluded DA	
DA1183	Gransha Road 26-28 DA	5					IEM06	Strangford	Jun-23	Jan-25	No Planned Study	No Planned Study	No Planned	Shel fish Compliance & River WFD Model	Intertek		Stage 2 - Model Build & Verification	Excluded DA	
DA1184	Craigdarragh Road DA	5					IEM11	Belfast	Dec-22	Mar-24	No Planned Study	No Planned Study	No Planned	Shellfish Compliance & River WFD Model	AFBI and Longline Environmental (LLE)		Stage 4 - Interventions	NMC Pollutograph Output	
DA1185	Roeside DA	0					IEM09	Foyle	Apr-23	Oct-23	No Planned Study	No Planned Study	No Planned	Shellfish Water Compliance Model	AFBI and Longline Environmental (LLE)		SWELL complete, S-O not commissioned	NMC Pollutograph Output	
DA1186	Ballyworkan DA	0					IEM17	Upper Bann			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA1187	Slaght DA	133					IEM14	Maine	Sep-23	Aug-24	No Planned Study	No Planned Study	No Planned	River WFD Model	RPS	DA physically within IEM boundary howev	Stage 2 - Model Build & Verification	Excluded DA	1
DA1190	Drumsough Road Randalstown DA	12					Not in IEM Catchment	Not in IEM Catchment			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	
DA1191	Drumconvis Road 58-62 DA	9					Not in IEM Catchment	Not in IEM Catchment			No Planned Study	No Planned Study	No Planned	No Planned Study	No Planned Study		No Planned Study	No Planned Study	

Table 40b – Delivery of DAPS and Integrated Environmental Modelling

Introduction

This chapter provides a report on the delivery of Drainage Area Plans (DAP) and Integrated Environmental Models (IEM) and their relationship to capital schemes planned for delivery in PC21. Additionally, there are a number of Development Objectives are also affected by the delivery of the models listed in Table 40b such as;

Development Output 25 [Addressing scope uncertainty for the Mid-term Review] now closed.
Development Output 9 [(WwPS / CSO Quality (UID)],
Development Output 19 [LWWP Networks]
Development Output 20 [LWWP Wastewater Treatment Works].

Table 40b is NI Water's one version of the truth with regard to all DAP and IEM programming and unifies all modelling studies across the country regardless of size or timescale. The information held within Table 40b is updated monthly by NIW and linked to the Corporate System. Our Corporate System is known as the DAP APP which communicates the progress of all live DAP/IEM projects and also identifies historical and future planned DAPs/IEM to the business.

Dates are now added to the date columns previously in AIR22 there was additional note within these columns such as N/A. In the case of Ballykelly Limavady [DA0844] the additional note was 'Not progressed beyond MBV', this has now been made blank, as no baseline date is available as there is no expected date. This was amended to align formatting between Table 40b and the DAP APP to ensure transfer of dates.

Table 40b links NIW's DAP and IEM programmes and articulates dependencies between both programmes of work. For any given IEM, Table 40b outlines the DAP studies feeding into it and thus allowing NIW to understand where changes to DAP delivery may have a knock on impact on IEM studies.

Table 40b facilitates linkages to be established between the DAPs, IEM work and any associated capital investment projects and outputs listed in Tables 40 and 40a. As such, Table 40b will help identify any movement in the planned delivery programme for either DAPs or IEMs is affecting the delivery of capital investment projects and associated benefits to consumers. Linkage in Table 40 is against projects related to that DAP or IEM, not all of those will be Nominated Outputs, and even some that are, such as DG5s will not be a part of Table 40a.

Handover of model results to IEM delivery team typically occurs before DAP MBV is completed. For instance, Dundrum (ref IEM01) DAP model outputs were supplied to IEM team in July 22, however the DAP MBV was not fully completed until early 2023.

The Populations stated in Table 40b are derived from the Headroom Capacity tables which are informed by AIR24 and stored in the CAR Corporate System. The process for the populations update is that the DAP APP is updated from the Headroom Capacity tables and Table40b is then updated from the DAP APP.

With regards to year on year changes, the following updates are applied to WwTW catchment PE figures:

- Trade effluent returns – provided by the Trade Effluent Section based on billed/measured trade.
- Catchment population studies – undertaken as part of a capital project or an onsite review by WW Asset Strategy team. This would include the applying of the average household size from NISRA, which may result in an overall reduction.
- The inclusion of new pointer address nodes that have been added to NI Water's GIS system within the reporting year – this is a report generated by our Asset Information team.

The application of the above updates may result in an increase or decrease.

Baseline dates for milestone delivery of modelling projects were set at AIR22 and these dates are used to monitor progress for AIR24 reporting.

In order understand potential delivery/programme risks associated with both DAPs and IEM studies, NIW has developed an Integrated Risk Register. Please refer to evidence folder.

Validation Criteria

There are 1,063 Drainage Areas, this is the total number of NIW catchments covering the boundary extents of sewer networks draining to WwTWs. Of the 1,063 Drainage Areas 195 DAPs are historical or ongoing DAPs.

Within Table 40b there are 1,069 rows, although there are only 1,063 Drainage Areas. Three of the Catchments North Coast, North Down and Craigavon have been disaggregated.

The IEM ID references have been reviewed since AIR22 submission. The updated IEM ID references has been agreed and discussed with NIEA in December 2022 and correlates with internal folder numbering. There are 20 IEM references; Note IEM04 is not included as the IEM04 Benone is incorporated into IEM12 North Coast.

Where no date has been inputted into either Columns 4 through to 7 or Column 10 or 11, this is due to reasons such as 'No Planned Study', 'DAP not issued yet' or 'Rurals' (small catchments no study be undertaken). If a date has been inputted into Column 4, 6 or 10, it is to be considered the completion date. Columns 5, 7 and 11 will be updated, once dates are confirmed with consultants, that allow for any delays to the dates in Column 4, 6 or 10 such as prolonged surveys.

DAP

NI Water has an in-house team responsible for the delivery, moving forward and the maintenance of DAP models. These models inform precautionary solutions proposed on wastewater schemes with relation to Unsatisfactory Intermittent Discharges (UIDs) and are used as an input to inform water quality studies.

As a requirement for PC21 the Utility Regulator has requested that a programme of DAPs be developed and reported on to allow early monitoring against potential slippages in the delivery of Nominated Projects.

The delivery of DAPs directly affects the ability of NI Water to deliver on its task of addressing the Scope Uncertainty issues for the Mid Term Review ("To Be Determined Projects"). Without an informed decision and recommendation from NIEA, based on model outputs, assumptions would have to be made on the potential solution, which would not give the necessary assurance required for the UR to determine on the projects in question.

The DAP programme also includes the development of models for rural catchments (typically less than 2,000 PE). The rural model build programme does not adhere the standard DAP process and therefore is not reported on in this document.

For tracking progress, DAPs have been broken down into 5 stages – refer to Table 40b methodology for details.

IEM

The IEM Programme is currently under development. The purpose of this Programme is to facilitate a holistic approach to assessing diffuse and point source pollution in catchments and receiving watercourses in order to better inform NIEA of the impact resulting from NI Water assets. Where an IEM can provide an evidence-based, enhanced understanding of the overall catchment context of pollution sources and their impacts, a specific solution may be proposed to deal with the NI Water impact on the watercourse. This may result in the potential lowering of NIEA consent standards or requirements.

For tracking progress, IEMs have been broken down into 5 stages – refer to table 40b methodology for details.

Activity Completed to date and its outcome.

To date all models expected to be delivered within years 1 and 2 of PC21 have been completed and the programmes shall be monitored on an ongoing basis for any potential variances.

As this is a new reporting requirement, it is expected that the information contained within Table 40b shall improve and grow upon completion of a fully developed IEM programme, as well as LWWP catchment monitoring plans.

DAP Model Build Verification

NI Water intended to complete the Model Build Report stage on 23 DAPs and 79 Rural Model Builds in the AIR24 reporting period. Of these, the 79 Rural Model Builds were completed within the AIR24 reporting period. Due to resourcing constraints both internally and within the supply chain, and other catchment commitments the 23 DAPs were not commenced. Three of these have now been released May 2024 with their programme for completion yet to be confirmed.

The relevant DAPs are listed in the excel table.



MBV and NO 220524.xlsx

DAP Needs and Options

NI Water intended to complete Needs and Options stage on 53 DAPs in the AIR24 reporting period. Of these, 10 were completed in the AIR24 reporting period.

The relevant DAPs are listed in the excel table above.

IEM Model

NI Water intended to complete six IEM studies in AIR24 (Ballinderry, Blackwater, Foyle, Maine, Moyola and Strangford). The IEM programme is a newer initiative for NI Water and

the duration of project delivery was underestimated at the outside. Although five studies were delivered during AIR24 these were delayed delivery from AIR23.

Dundrum IEM the pilot was delivered first.

Within AIR24, five IEM studies have reached Stage 3 compliance assessment as detailed within the below table.

The delivery delay will have a knock-on effect and the named AIR24 studies are reaching completion during 2024.

IEM reference (linked to Table 40)	IEM Name	Baseline IEM Model Completion Date	Current Actual IEM Model Completion Date
IEM01	Dundrum	Sep-22	Dec-22
IEM11	Belfast	Dec-22	Mar-24
IEM02	Larne	Mar-23	Nov-23
IEM03	Newcastle	Dec-22	Nov-23
IEM08	Carlingford	Dec-22	Feb-24
IEM09	Foyle	Apr-23	Oct-23

Targets not delivered in period

Table 40b indicates slippages across the DAP programme relating to both Model Build and Needs and Options stages.

- PC21 scope certainty submissions had a significant impact on the entire DAP delivery programme.
    - In catchments with named PC21 schemes (SP12B), delivery was initially focussed on specific, targeted areas of the DAP only. The wider catchment needs were subsequently delivered post scope certainty. This approach caused many of the DAP programmes to be significantly extended.
    - Due to resourcing issues in the supply chain, studies to inform PC27 were put on hold to ensure timely delivery of PC21 linked studies.
    - Design support for PC21 schemes has consumed supply chain resource and therefore also contributed to PC27 DAP delays.
- Flow Survey extensions due to inadequate rainfall events.
- Additional surveys/investigations required to support scope certainty exercise.
- Delays by NIEA regarding generation of environmental Statement of Needs caused many of the DAP delivery programmes to be put on hold.

The IEM programme is a newer initiative for NI Water and Dundrum IEM was the pilot. The AIR22 noted a further four IEM studies would also be completed by end March 2023. This has been achieved (Stage 3 compliance assessment and reporting to NIEA). These IEM studies are presented to NIEA via the Catchment Based Outcomes (CBO) Group and all data is share via the SharePoint site accessible to NIEA and DAERA.

- LWWP IEM - Belfast DAPs (Belfast, Kinnegar, Whitehouse, Seahill, Greenisland, Carrickfergus) was presented to NIEA in November 2022. The final report for the model build and compliance assessment elements was completed in April 23. (Ref - LWWP Belfast Lough Environmental Modelling Report - Issue v1)

    - All elements are shared with NIEA via the CBO SharePoint Site.
    - This study has continued through to Stage 4, and an optimised solution was presented to NIEA in March 2024 via the re-stablished CBO Group. (ref - LWWP Bacterial Compliance Options Report V1 Issue)

    - Formal NIEA sign off has not been received for the baseline results or optimised solution.
    - The optimised solution was presented to the wastewater investment group in March 2024 and a paper was provided in April 2024.
- Larne IEM was presented to NIEA in the November 2023 CBO Group meeting.
    - All elements are shared with NIEA via the CBO SharePoint Site. (Ref - CBO Larne IEM Summary Report_V2)
    - Feedback from AFBI was received and addressed by the March 2024 CBO meeting.
    - Formal NIEA sign off has not been received for the baseline results.

Targets delivered ahead of programme in period.

In some cases, a DAP or IEM study may be delivered ahead of baseline dates in Table 40b.

For example, in AIR23, Armagh DAP (ref DA0755) Model Build and Verification was delivered 5 months ahead of scheduled baseline delivery date.
Ballynahinch DAP (ref DA0040) Needs and Options was delivered 1 month ahead of scheduled baseline delivery date. This DAP was accelerated to facilitate PC21 capital delivery requirements.

NORTHERN IRELAND WATER LIMITED - ANNUAL INFORMATION RETURN

ANNUAL INFORMATION RETURN- TABLE 41 KEY OUTPUTS
HEALTH & SAFETY INFORMATION (NIW only)

	DESCRIPTION	UNITS	DP	1 REPORTING YEAR 2015-16	CG	2 REPORTING YEAR 2016-17	CG	3 REPORTING YEAR 2017-18	CG	4 REPORTING YEAR 2018-19	CG	5 REPORTING YEAR 2019-20	CG	6 REPORTING YEAR 2020-21	CG	7 REPORTING YEAR 2021-22	CG	8 REPORTING YEAR 2022-23	CG	9 REPORTING YEAR 2023-24	CG	10 REPORTING YEAR 2024-25	CG	11 REPORTING YEAR 2025-26	CG	12 REPORTING YEAR 2026-27	CG
A	OCCUPATIONAL ILL HEALTH																										
1	Employee total	nr	0	1,230	A2	1,246	A2	1,261	A2	1,277	A2	1,285	A2	1,291	A2	1,334	A2	1,395	A2	1,478	A2						
2	Total days lost due to sickness, accident and occupational ill health	nr	0	10,395	A2	10,188	A2	11,268	A2	11,251	A2	12,929	A2	9,347	A2	10,944	A2	10,186	A2	11,064	A2						
3	Total days lost - rate per 1000 employees	nr	2	8,451.22	A2	8,176.57	A2	8,935.77	A2	8,810.49	A2	10,061.48	A2	7,240.12	A2	8,203.90	A2	7,301.79	A2	7,485.79	A2						
4	Number of incidents of occupational ill health	nr	0	134	A2	135	A2	143	A2	176	A2	192	A2	119	A2	171	A2	168	A2	183	A2						
5	Incidents of occupational ill health - rate per 1000 employees	nr	2	108.94	A2	108.35	A2	113.40	A2	137.82	A2	149.42	A2	92.18	A2	128.19	A2	120.43	A2	123.82	A2						
B	RIDDOR REPORTS																										
6	Total RIDDOR incidents	nr	0	7	A1	4	A1		A1	6	A1	5	A1	5	A1	3	A1	6	A1	3	A1						
7	RIDDOR - rate per 1000 employees	nr	2	5.69	A1	3.21	A1	4.76	A1	4.70	A1	3.89	A1	3.87	A1	2.25	A1	4.30	A1	2.03	A1						
8	3-day accident rate per 1000 employees	nr	2	5.68	A1	3.21	A1	4.76	A1	4.70	A1	3.89	A1	3.87	A1	2.25	A1	4.30	A1	2.03	A1						
9	Major/fatal accident rate per 1000 employees	nr	2	0.00	A1	0.00	A1	0.00	A1	0.00	A1	0.00	A1	0.00	A1	0.00	A1	0.00	A1	0.00	A1						
C	AND INCIDENCE OF OCCUPATIONAL ILL HEALTH																										
10	Contractors' employees total	nr	0	NA		NA		NA		NA		NA		NA		NA		NA		NA							
11	Total days lost due to sickness, accident and occupational ill health	nr	0	NA		NA		NA		NA		NA		NA		NA		NA		NA							
12	Total days lost - rate per 1000 employees	nr	2	No data																							
13	Number of incidents of occupational ill health	nr	0	NA		NA		NA		NA		NA		NA		NA		NA		NA							
14	Incidents of occupational ill health - rate per 1000 employees	nr	2	No data														0									
D	CONTRACTORS' RIDDOR REPORTS																										
15	Total RIDDOR incidents	nr	0	7	BX	9	BX	6	BX	5	BX	4	BX	9	BX	4	BX	5	BX	8	BX						
16	RIDDOR - rate per 1000 contractors' employees	nr	2	No data																							
17	3-day accident rate per 1000 contractors' employees	nr	0	NA		NA		NA		NA		NA		NA		NA		NA		NA							
18	Major/fatal accident rate per 1000 contractors' employees	nr	2	0.00	A2	0.00	A2	0.00	A2	NA		NA		NA		NA		NA		NA							

Table 41 – Health and Safety Information (NI Water only)

Lines 1 - 5 - Lost time

In 2023/24 financial year NI Water lost a total of 11,064 working days due to sickness which was equivalent to 7.5 working days lost per employee. The Key Performance Indicator (KPI) attendance in 23/24 was 96.5% and NI Water delivered an actual rate of 96.6%, 0.1% inside the target.

HR Advisors, in conjunction with line managers, continue to manage employee absence cases that meet the sick absence trigger points to highlight the importance of good attendance and corrective action taken where appropriate.

Human Resources work in partnership with line managers, the Employee Support Officer, Inspire (our Employee Assistance Programme provider), the occupational health provider and employees to assist those on long term sick to return to work and to facilitate reasonable adjustments where required.

Data continues to be presented to senior management on a monthly basis to provide updates on current absence levels and with the goal to maintain our business performance where the target had been achieved in the previous year. NI Water's strategic theme of 'People' which covers the absence reporting provides further insight and data to support decision making and problem solving. The data continued to be presented via Power BI as part of a dashboard suite of reports. Further information was also reported on in more detail on a quarterly basis.

Our attendance rate decreased slightly from 96.7% in 22/23 to 96.6% in 23/24. This represents a small increase in our sickness by 2% year-on-year but still within the business attendance target of 96.5% which has now been achieved in 3 out of the last 4 years.

Absences due to Covid-19 fell in 23/24 as the pandemic continued to wane, there were 82 employees off work with Covid and this contributed to 426 working days lost, this compares to the previous year where 215 employees were off work with Covid-19 related sickness and 1326 working days lost in total. 4% of the working days lost total was due to Covid-19 in 23/24 compared to just over 13% of the total working days lost in 22/23.

Cold/flu/respiratory illnesses continue to be low but showed an increase from last year. 495 working days were lost to these illnesses during 23/24, compared to 431 during 22/23.

It should be noted when considering the above figures in relation to Covid-19 and other cold/flu/respiratory illnesses that free Covid tests that helped determined the illness specifically were discontinued by the Department of Health in August 2022.

Psychiatric/psychological absences remain the highest reason for days lost due to sickness in 23/24 at 24.7% but this is a decrease from 22/23 when the percentage of total working days lost was 26.0%. The number of working days lost though for Psychiatric/psychological absences increased from 2653 in 22/23 to 2737 in 23/24. It should be noted that there has been a 6% increase in NIW headcount year-on-year.

In other areas, there was a decreased sickness in Nervous System disorders absences which dropped by 55% year-on-year. There was however a year-on-year increase in Musculoskeletal absences of 41%. There were two deaths in service this year.

Frontline operatives attended yearly medical assessments for Hand Arm Vibration, audio and working in confined spaces. NI Water also provided medical assessments for driving and HGV which is currently carried out by occupational health providers.

At NIW we make safety, health and wellbeing of our people a strategic priority. The wellbeing strategy is a collaborative approach ensuring business impact whilst fostering a culture where our staff feel psychologically and physically safe. One key ambition of our strategy is that stigmas and barriers are removed and, due to the early diagnosis of illnesses during our roadshows, we have evidence that our programme of activities saves lives.

With a dedicated wellbeing manager we offer end to end support including working with the absence management team. The success of our programmes also depends on a range of listening strategies throughout the year including surveys with specific wellbeing questions, phone calls to staff, focus groups and post-course feedback. Each programme is informed by analysis of absence data and Champion Health (APP) data to understand the variety of needs across a wide-reaching workforce.

This is accompanied by extensive benchmarking with other companies (utilities, private and public sector and best practice sharing via networks and forums across Northern Ireland.

We are recognised as an example of best practice in business excellence and care for its people through achieving business awards including the 2023 CIPD Impactful Health & Wellbeing at Work.

Focused on **4 pillars of health** (mental, physical, social, financial) the wellbeing strategy enables NIW to perform and deliver exceptional customer service. Our approach is to support our people through all of life's events. Offering a vast array of flexible and family-friendly policies for a better work-life balance complemented by seasonal health campaigns (Winter Wellness, Spring Forward, Summer Sizzlers and Abundant Autumn) featuring a targeted program of events. Interventions include inspirational speakers discussing a range of topics. Two bi-annual hybrid 6 week 'Live Well' roadshows are facilitated offering 20+ events each including 1:1 health check, vaccines (with 200 colleagues getting vaccinated in 2023), massage, eyecare, cancer screening, BP & AF and cholesterol testing.

Communication channels promoting the program include our new 'Source' wellbeing site, eye-catching e-poster campaigns, targeted emails, monthly Team Talks, virtual Town-Hall meetings.

Our employees have been able to avail of the world leading 'Netflix of Wellbeing' **Digital Health Platform** in partnership with 'Champion Health', giving 24/7 personalised access to an app. Enhancing communications with our frontline colleagues, offers masterclasses to improve sleep (shift workers) exercise, menopause, nutrition and weight management programmes. Anonymised data giving real-time insights, analytics and detailed reports helping to continue data driven decisions.

We offer a seamless experience when signing up to any of our opportunities by having a state-of-the art booking system called Thrive. This software has allowed for the doubling of attendance numbers to every session, which also helps to further analytical insight into trends with a 'dashboard' to help create, view, and manage the opportunities. Our online talks are attended by 100's of employees.

Identifying **real-life stories** across our workforce, bringing them to the masses via video storytelling delivers important health messages, creates a culture of openness, normalises

conversations around sensitive health and social issues. The strength of relationships we build with our employees has meant that they partnered with us to educate others, stepping up to tell their wellbeing stories on camera as part of important campaigns such as suicide awareness. Stories on mental & physical health, bereavement, addiction, and domestic violence are changing NIW culture. 'Men's Health Week' this year will again feature frontline colleagues speaking openly and how our male-dominated frontline workforce needs to remain aware of the signs.

This approach goes far beyond a health poster campaign, highlighting key issues we all face, helping build a happy, healthy, safe, resilient workforce and culture of looking after each other.

Line 6 – Total RIDDOR (>3 Lost Day) Incidents

The NI Water procedure for reporting of all incidents is set out in H&S Procedure PRO 008 within the NI Water Health & Safety Manual, (rev. March 2024). All incidents and near misses must be reported to line management as soon as practical, and at least within 24 hours of any incident. An electronic Risk Management and Reporting System (ASSURE) was utilised for recording and tracking of all incidents.

It is the relevant Line Manager's responsibility to ensure all incident details are recorded and managed within the Assure system.

Assure entries are monitored by NI Water's Health and Safety Team with statistical safety performance and trends presented monthly by the Head of Safety to the H&S Focus Group, Executive Committee and Board for consideration and discussion.

There were 3 RIDDOR (greater than) >3 Lost Day reportable incidents within NI Water during 2023/24, all of which resulted in more than 3-day work activity-related absences.

In addition to the 3 lost day RIDDOR incidents NIW also reported 1 Dangerous occurrence RIDDOR report.

All NIW RIDDOR reports are listed below,

Incident Ref	Date of Incident	Brief Description	RIDDOR Classification
INC-000568	22/08/23	Waste Water – IP injured shoulder when pulling jetter hose back.	> 3 days
INC-000632	06/11/23	Water Supply – IP slipped on wet ground and sprained rotator cuff muscle.	> 3 days
INC 000666	20/12/23	Networks Wastewater - IP fractured finger while opening manhole cover.	> 3 days
INC-000573	01/09/23	Non-standard Davit socket installation.	Dangerous Occurrence

NB: NI Water reports all over 3-day incidents under the RIDDOR (Northern Ireland) Regulations, whilst mainland GB reports on over 7-day absences, in line with legislative changes affecting only GB.

Line 7 – RIDDOR Rate per 1000 employees

The process, as described for Line 6 above, provides the total number of RIDDOR (>3 day) incidents, whilst the denominator, the total number of employees, has been calculated by the Human Resources (HR) Directorate as 1478. This gives the RIDDOR Rate per 1000 employees as 2.03 for 2023/24.

Line 8 – Greater than (>) 3-day Incident Rate per 1000 employees

As all RIDDOR incidents refer to incident-related absence (ref. line 6 commentary), the information in Line 8 mirrors that of Line 7.

Line 9 – Major Fatal Incident Rate per 1000 employees

The information gathering process is again as described for Line 6 above. No fatal injuries occurred during 2023/24.

Lines 10 – 14 - Contractor Lost Time Incidents

Contractors continue to be managed and directly engaged on a wide range of work activities, projects, and contracts on behalf of NI Water. However, core activity, from a Health and Safety perspective relates only to the assistance given by contractors in relation to the provision of water and sewerage services and includes contractors engaged in the construction of new works (ref. line 15 commentary). NI Water has, throughout 2023/24 been engaged in a continuing process of change, regarding the numbers of contractors assisting in asset delivery and improvement of this core activity, as efficiency measures continue to be put in place,

Given the changing nature of contract provision as outlined above and the variety of work undertaken, NI Water has no available methodology for calculating and determining accurately the number of contractors' staff engaged in all core related activities and this is unlikely to change, regarding the numbers of contractors assisting in asset delivery and improvement of this core activity, as efficiency measures continue to be put in place.

Line 15 – Contractors' RIDDOR Reports

The Northern Ireland public regards all work related with water and sewerage services, including design and build work, to be closely associated with NI Water. NI Water, in turn, recognises its own duty of care to all of its contractors as a client organisation when they are carrying out work and therefore sees its duty as one of leadership. NI Water therefore maintains a record of monitoring on all contractor and subcontractor reported incidents, which includes all incidents relating to transient workers. NI Water encourages and requires the reporting of all near-miss incidents involving contractors to facilitate a shared learning experience, in line with NI Water's 'Zero Harm' ambition.

All Contractor and subcontractor incidents are recorded on ASSURE. For 2023/24 the total number of RIDDOR related incidents resulting in lost time, reported to NI Water by all contractors was 8. This was an increase in reports compared to 5 reported incidents last year. Contractor performance continues to be monitored by NI Water's H&S Focus Group, by Executive Committee and by Board at their monthly meetings. On a Quarterly basis Risk Committee also consider and review safety performance, recent incidents and trend analysis of both NI Water staff and contractor performance.

In addition to the 8 lost day RIDDOR incidents reported by NIW contractors, 3 dangerous Occurrence RIDDOR reports were also reported.

All NIW contractor RIDDOR reports are listed in the table below,

Incident Ref	Incident Date	Brief Description	RIDDOR Classification
INC-000513	08/08/23	IP sustained crush injury from trench box.	> 3 days
INC-000532	27/06/23	IP tripped on their hose and fractured bone in foot.	> 3 days
INC-000561	08/08/23	IP struck on head by concrete skip.	> 3 days
INC-000558	10/08/23	IP jumped down from scaffold and fractured bone in foot.	> 3 days
INC-000562	14/08/23	IP broke foot bone while getting out of tractor.	> 3 days
INC-000711	30/01/24	IP struck up car during road works injuring foot & hand.	> 3 days
INC-000744	13/03/24	IP struck by tractor.	> 3 days
INC-000495	25/4/23	IP felt faint while working in a chamber. (1 lost day)	Dangerous Occurrence
INC-000525	17/06/23	Overhead power cable broken.	Dangerous Occurrence
INC-000539	03/07/23	Gas line strike. (>500kg lost)	Dangerous Occurrence
INC-000580	12/08/23	Fracture – member of the public.	Dangerous Occurrence

Lines 16 - 17 – Contractor RIDDOR and >3 Day Incident Rates

Information is not collected for this line, as NI Water has no available methodology for calculating and determining accurately the numbers of direct contractor employees working on all NI Water contracts. Incident Rates therefore become difficult to calculate.

Line 18 – Contractor Major Fatal Incident Rate per 1000 employees

There were no fatal incidents connected with NI Water contractors /sub-contractors, including transient workers, during 2023/24.

NORTHERN IRELAND WATER LIMITED - ANNUAL INFORMATION RETURN

ANNUAL INFORMATION RETURN- TABLE 42 PPP REPORTING
PPP REPORTING

	DESCRIPTION	UNITS	DP	CG	Corresponding Report	Calculation	SCHEME	SCHEME	SCHEME	SCHEME	SCHEME	SCHEME	SCHEME	SCHEME	SCHEME	SCHEME	SCHEME	SCHEME	SCHEME	SCHEME	SCHEME	SCHEME		TOTAL	TOTAL	TOTAL	TOTAL	TOTAL
A	**PROJECT DESCRIPTION**																											
1	PPP Concession	text	na		na		Alpha	Alpha	Alpha	Alpha	Alpha	Alpha	Alpha	Kinnegar	Omega	Omega	Omega	Omega	Omega	Omega	Omega	Omega	Omega	Alpha	Kinnegar	Omega	Water Service	Sewerage Sevice
2	Service Area	text	na		na		WT	WT	WT	WT	WD/WT	WD	WD	WWT	WWT	WWT	WWT	WWT	WWT	WWS	WWS	WWS	WWS	All	All	All		
3	Name of works	text	na		na		Balinrees	Castor Bay	Dunore Point	Moyola	DBFO LM & FKd BDG Cont TK	Ballymoney LM	Limavady LM	Kinnegar	Richhill	Armagh	Ballynacor	North Down	Ballyrickard	Ballynacor Lagoons	Ballynacor	Duncrue	Sludge Service	Total	Total	Total	Total	Total
4	Commencement date	date	na		na		10/10/2008	09/12/2008	11/12/2008	16/09/2008	16/12/2008	15/10/2008	15/10/2008	24/05/2001	08/04/2009	27/08/2009	14/11/2009	05/05/2008	20/04/2009	N/A	31/03/2010	31/03/2010	31/03/2010					
5	Service duration	yrs	0		na		23	23	23	23	23	N/A	N/A	23	23	23	22	24	23	N/A	22	22	22					
6	Service completion date	date	na		na		30/05/2031	30/05/2031	30/05/2031	30/05/2031	30/05/2031	N/A	N/A	23/04/2024	07/03/2032	07/03/2032	07/03/2032	07/03/2032	07/03/2032	07/03/2032	07/03/2032	07/03/2032	07/03/2032					
B	**PAYMENT TO PPP CONCESSIONAIRE**																											
7	Unitary Charge Capacity	£m	3		na		3.911	6.326	7.069	2.934	0.824	0.675	0.818											22.557			22.557	
8	Unitary Charge Variable	£m	3		na		0.619	2.190	1.989	0.410	0.000	0.000	0.000											5.208			5.208	
9	Unitary Charge Deductions	£m	3		na		-0.038	-0.233	-0.085	-0.028	0.000	0.000	0.000											-0.384			-0.384	
10	Atypical expenditure	£m	3		na																			-0.770			-0.770	
11	Efficiency Gains, included in 7 & 8	£m	3		na																			-0.703			-0.703	
12	Total PPP Payments (7to 10)	£m	3		na	Sum 7 to 10	4.492	8.283	8.973	3.316	0.824	0.675	0.818											26.611			26.611	
13	Capital repayment	£m	3		na		0.959	1.537	1.710	0.719	0.217	0.178	0.215											5.535			5.535	
14	Maintenance	£m	3		na		0.265	0.481	0.569	0.201	0.000	0.000	0.000											1.516			1.516	
15	Residual interest	£m	3		na																							
16	Atypical payments capitalised	£m	3		na		0.000	0.000	0.000	0.000	0.000	0.000	0.000											0.000			0.000	
17	Total capitalised (13 to 16)	£m	3		na	Sum 13 to 16	1.224	2.018	2.279	0.920	0.217	0.178	0.215											7.051			7.051	
18	Total PPP Expensed (12-17)	£m	3		na	Lines 12-17	3.268	6.265	6.694	2.396	0.607	0.497	0.603											19.560			19.560	
19	Interest	£m	3		na		0.848	1.359	1.512	0.635	0.192	0.157	0.190											4.893			4.893	
20	Total PPP Opex (18-19)	£m	3		na	Line 18-19	2.420	4.906	5.182	1.761	0.415	0.340	0.413											14.667			14.667	
C	**WATER DISTRIBUTION DATA**																											
21	Distribution input	Mld	2	B2	Table 10 Line 26		28.47	113.12	113.84	15.58														271.01			271.01	
21a	Water Treatment Works Capacity	Mld	0	A1			50	147	180	19														396			396	
22	Length of mains	km	2	A2	Table 11 Line 12						16.42	0.00	0.00											16.42			16.42	
D	**WATER RESOURCE AND TREATMENT DATA**																											
23	Turbidity 95%ile greater or equal to 0.5NTU	1/0	0	0			0	0	0	0	0													0			0	
24	Turbidity 95%ile less than 0.5NTU	1/0	0	0			1	1	1	1	1													5			5	
25	Source Type	text	na	A1	Table 12 Block A		IR x 2 + River	River	River	River														2 x I.R. 4 x River			2 x I.R. 4 x River	
26	Treatment type	text	na	A1	Table 12 Block B		W4	W4	W4	W4														4 x W4			4 x W4	
27	Average pumping head	m.hd	1	B3	Table 12 Block A		120.4	137.5	173.0	146.5														151.9			151.9	
E	**SEWERAGE DATA**																											
28	Total length of sewer	km	2	B2										0.00	0.00	0.00	10.50	10.63	0.00						0.00	21.13		21.13
29	Total length of critical sewer	km	2	B2										0.00	0.00	0.00	10.50	10.63	0.00						0.00	21.13		21.13
F	**SEWAGE TREATMENT AND DISPOSAL DATA**																											
30	Population equivalent of total load received	000	0	B3	Table 17b line 2									89	2	14	128	80	48						89	272		361
31	Load received by STW's	kg BOD/day	0	B3	Table 17d									5358	134	843	7675	4781	2856						5358	16289		21647
32	Suspended solids consent	mg/l	0	A1	Table 17b line 3									45/150	20/50	20/50	35/-	35/90	10/30									
33	BOD5 consent	mg/l	0	A1	Table 17b line 4									25/80	07/30	08/30	25/50	25/50	10/35									
34	COD consent	mg/l	0	A1	Table 17b line 5									125	125	125	125	125	125									
35	Ammonia consent	mg/l	0	A1	Table 17b line 6									0.00	02/10	02/10	7.5/32	0.00	0.00									
36	Phosphates consent	mg/l	0	A1	Table 17b line 7									0.00	0.00	<1 Ann Avg	<1 Ann Avg	0.00	0.00									
37	Classification of Treatment Works	text	na	A1	Table 17b line 8									SAS	TA1	TA2	TA2	TA2	TA2									
38	Size band of sewage treatment works	nr	0	B3	Table 17c									6	4	5	6	6	6									
G	**SLUDGE TREATMENT AND DISPOSAL DATA**																											
39	Total sludge imported from NI Water	ttds	3	B2										0.000	0.000	0.000	0.000	0.000	0.000	0.000	5.435	24.105	29.540		0.000	29.540		29.540
39a	Total sludge imported from other PPP facilities	ttds	3	A1										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
40	Sludge produced by the PPP facility	ttds	3	B2										0.750	0.066	0.415	2.737	1.469	1.058	0.000	0.000	0.000	0.000		0.750	5.744		6.494
41	Sludge exported to Duncrue Incinerator	ttds	3	B2										0.750	0.066	0.415	2.737	1.469	1.058	0.000	0.000	0.000	0.000		0.750	5.744		6.494
42	Sludge exported to other PPP facilities	ttds	3	B2										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
43	Sludge exported to NI Water	ttds	3	A1										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
44	Sludge disposed of from site to - Farmland Untreated	ttds	3	A1	Table 17G Col 1									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
45	Sludge disposed of from site to - Farmland Convestional	ttds	3	A1	Table 17G Col 2									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
46	Sludge disposed of from site to - Farmland Advanced	ttds	3	B3	Table 17G Col 3									0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.865		0.000	2.865		2.865
47	Sludge disposed of from site to - Incineration	ttds	3	B3	Table 17G Col 4									0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	32.932		0.000	32.932		32.932
48	Sludge disposed of from site to - Landfill	ttds	3	B3	Table 17G Col 5									0.063	0.000	0.002	0.041	0.054	0.039	0.000	0.000	0.000	0.004		0.063	0.140		0.203
49	Sludge disposed of from site to - Composted	ttds	3	A1	Table 17G Col 6									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
50	Sludge disposed of from site to - Land Reclamation	ttds	3	B3	Table 17G Col 7									0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.237		0.000	0.237		0.237
51	Sludge disposed of from site to - Other (Willow Coppice)	ttds	3	A1	Table 17G Col 8									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
52	Sludge disposed of from site - Total	ttds	3	B2	Table 17G Col 9									0.063	0.000	0.002	0.041	0.054	0.039	0.000	0.000	0.000	36.038		0.063	36.174		36.236

Table 42 – PPP Reporting

Preface

The Company highlights that on the 20 November 2017 a newly formed holding company subsidiary, NIW Clear Ltd, acquired sole ownership of both the Alpha PPP Contractor (Dalriada Water Ltd) and the Alpha PPP Operating Company (Kelda Water Services Alpha Ltd). These entities were acquired through a competitive bid process conducted by the previous owners, Kelda Water Services Ltd, which commenced in December 2016, following Kelda's announced sale of all their UK PPP/PFI water and energy commitments in September 2016. Post-acquisition, the contractual arrangements between the parties, including the senior lenders, has remained in place. There are no plans to collapse the Alpha PPP contract.

The reporting arrangements in Table 42 below remain unaffected by the acquisition and subsequent continuation of the existing commercial arrangements.

Note: As the atypical expenditure and efficiency gains are not divisible by site the cross tots on lines 10 & 11 will not agree to the figures in the total column – the figures included in the total columns are correct for each concession.

Line 7 - Unitary charge capacity (No change to methodology)

The Unitary Charge Capacity Charge applies to Alpha only. The data used is derived from the invoices received from the Contractor, which separates the Unitary Charge Capacity Charge from the Unitary Variable Charge and the relevant Unitary Charge Performance Deductions, all in accordance with the Payment Mechanism Schedule of the Contract. Costs have increased by 5.6% (£22.557m vs £21.353m in AIR23) due to an inflationary uplift in tariffs.

Line 8 - Unitary charge variable (No change to methodology)

The Unitary Charge Variable Charge applies to all three PPP Contracts. The data used is derived from the invoices received from the Contractor which set out the Unitary Charge Variable Charge claimed. There are no payments in respect of the Ballynacor Sludge Facility and the Duncrue St Sludge Facility, rather a payment in respect of the Sludge Disposal Services.

In total, costs on this line have increased by 16.8% from the previous year, driven by a combination of inflation and flow variations in the year. In terms of flow variations, the movements are as follows:

Alpha – variable costs have increased by 11.8% ([redacted] vs [redacted] in AIR23).
Although DI from the Alpha sites reduced by 2.4% (271.6 ML/D vs 278.3 ML/D in AIR23), tariffs were uplifted by 12.6% in April-23 based on Mar-23 RPIX.

Omega – variable costs have increased by 18.3% (£34.153m vs £28.871m in AIR23).
This is made up of costs in relation to waste water and Sludge Disposal Services (SDS) as follows:

- Waste water - flows have increased by 15.2% compared to the previous reporting year (38.9 Mm3 vs 33.8 Mm3 in AIR23) which may be linked to increased rainfall in the reporting year which was 25.5% higher than the prior year. Overall, there was a 25.7% increase in variable costs ([redacted] vs [redacted] in AIR23). This includes the impact of tariffs which were increased by 4.1% in Jan-24 (based on Nov-23 RPIX) following a 13.5% increase in Jan-23.

- SDS – sludge volumes have reduced slightly from AIR23 with a 1.6% reduction (35.9k TDS vs 36.5 TDS in AIR23). There was a 7.6% increase in variable costs ([redacted] vs [redacted] in AIR23)

Kinnegar – variable costs increased by 7.6% (£2.540m vs £2.360 in AIR23).

Line 9 - Unitary charge deductions

By contract definition, where the PPP Contractors invoice to an amount higher than the amount payable in accordance with the relevant Payment Mechanisms, the variance becomes a disputed amount. The Company recognises the disputed amount as an outstanding liability until such time as the Parties choose to have the dispute determined, or agree an amount for payment with credit note issued for closure as appropriate.

Alpha

The Alpha Contractor, through engagement, invoices to the agreed amount which includes the relevant Performance Deductions. These Deductions are in accordance with the Payment Mechanism for failure events identified and can be separated by Facility (Scheme) as per the Payment Mechanism. Performance deductions in the reporting year were [redacted], an increase of [redacted] on the prior year amount of [redacted].

Omega

Following the settlement agreement, Glen Water have commenced declaring performance deductions on their monthly invoices, however, as it is still their intention to submit waiver requests, we have made appropriate accrual for these amounts and not released any amounts as performance deductions in the AIR24 period (£47k reported in AIR23)

Kinnegar

No performance deductions reported.

Line 10 - Atypical expenditure

Alpha (-£0.770m)

	£m
Quality Monitoring Change credit	-0.621
EIB Step-down	-0.067
Refund in respect of reorganisation costs	-0.082
Total	**-0.770**

- As a result of the Quality Monitoring Change to the Contract an amount is deducted from the Alpha monthly invoice to reflect the reduced costs from lab services being carried out in house by NIW. The deduction amounted to £0.621m in the reporting year.
- In 2023/24 a reduction of £0.067m was realised in the unitary charge tariffs resulting from the EIB step-down. This was a pre-set change in the 45% finance provided by EIB, conditional upon achieving operational performance and Special Purpose Company (SPC) debt cover ratio targets.
- An agreement is in place to provide for a change in unitary charge arising from the lower number of TUPE transferees than that anticipated at financial close. The parties have agreed to reflect the variance in semi-annual Project Costs as per the Financial Model by making adjustments in the monthly invoice at the end of each Semi Annual Period. To this extent the repayments made in the reporting year were £0.082m.

Kinnegar [redacted] – relates to handback expenditure

Omega [redacted]

	£m
Supplemental 4 agreement	[redacted]
Change in calibration frequency	
Omega Settlement Accounting	
BREF	
Other	
Total	

- As a result of Omega Supplemental Agreement 4, executed in 2011/12, an amount is deducted from the monthly invoice to reflect the change in wastewater flow management performance requirements. The deduction amounted to [redacted] in the reporting year.
- During 2013/14 a service level change was implemented relating to the frequency of calibration of the Sludge Cake Weighbridge at Duncrue St. This resulted in a [redacted] saving in the reporting year.
- Omega Settlement Accounting – IFRS accounting adjustments agreed with external auditors – relates to movement in constructive liabilities.
- BREF (EU Best Available Techniques reference documents (BREFs)) - The BREFs are a series of reference documents covering, as far as is practicable, the industrial activities listed in Annex 1 to the EU's IPPC Directive (integrated pollution, prevention and control). They provide descriptions of a range of industrial processes and for example, their respective operating conditions and emission rates. Member States are required to take these documents into account when determining best available techniques generally or in specific cases under the Directive. The additional amounts in Omega are in relation to a change in law, i.e. revisions to the Industrial Emissions Directive (IED), where they intend to apply 'Best Available Techniques' to cover industrial activities to ensure sectors with significant potential for high pollution curb environmental damage at source. NIW will be responsible for additional costs via an authority change.
- Other – relates to accrual and release of prior year performance deductions and other minor costs including out of spec sludges at the Kinnegar site.

Line 11 - Efficiency Gains

The Company has transferred the cost risk of service provision (other than where relating to a Change in Law) to the Concessionaires, excluding the cost of electricity in Alpha and Omega. In so doing, the Concessionaires carry the downside risk of costs materializing and the benefits where they do not. The Company does not have the right to cost savings for **the same level of service** where the contractor has internally identified means of securing such savings.

Post procurement any reduction in the Company PPP Unitary charge costs (whether identified by the Company or the Concessionaires) emanate only from a Change in the level of service.

The following Changes for cost reduction have resulted in efficiency gains in the reporting year against the baseline contract at award:

Alpha (£0.703m)

The reorganisation costs credit (£0.082m), quality monitoring change (£0.621m) all detailed above are efficiency gains arising in the reporting year.

Omega [redacted]

Supplemental Agreement 4 executed in 2011/12 reflecting a change in wastewater flow management performance requirements resulted in a [redacted] deduction in the reporting year.

The change in weighbridge calibration frequency implemented in 2013/14 resulted in [redacted] of savings.

Kinnegar

No Contract Changes for cost reduction have been implemented during the Reporting Period.

Line 13 - Capital repayments

This line reflects the element of unitary charge payments allocated as capital repayments of the finance lease creditor. The data is consistent with the Company's financial accounts. The site split of the capital repayment is calculated as follows:

Alpha:

Capital Repayment and Interest	Capacity Charge by Site	L14 Capital Maint	Capacity Charge less Cap Maint	Pro Rata Interest	Pro Rata Capital
Dunore Point	7,069	568	6,501	1,512	1,710
Castor Bay	6,326	481	5,844	1,359	1,537
Moyola	2,934	201	2,732	635	719
Ballinrees	3,911	265	3,646	848	959
Ballymoney LM	675		675	157	178
Limavady LM	818		818	190	215
CB to FB LM	824		824	192	217
	22,557	1,516	21,041	4,893	5,535

Omega:

Allocation of capital repayment & interest	Initial Capital	Capital Repayment	Interest
Richill	[redacted]	[redacted]	[redacted]
Armagh			
Ballynacor			
NDA			
Ballyrickard			
SDS			

(The above tables are extracted from an excel spreadsheet with totals based on rounded values, figures expressed in £'000)

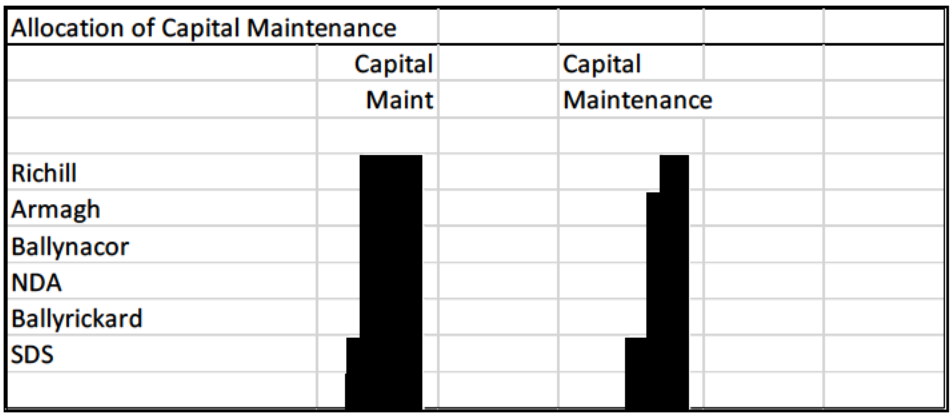
Line 14 - Capital maintenance

Capital maintenance is allocated straight line across the life of the contracts following a change implemented in 2013/14. This correctly reflects that the unitary charge does not fluctuate with changes in the capital maintenance spend in any year. This straight line amount has been allocated to the sites on the basis of the total amounts included in the original financial models as follows:

Alpha:

Capital Maintenance	To End per Fin Model	After Indexation	2023/24
Dunore Point	6,407	10,510	568
Castor Bay	5,429	8,904	481
Moyola	2,272	3,727	201
Ballinrees	2,985	4,897	265
	17,094	28,037	1,516

Omega:



(The above tables are extracted from an excel spreadsheet with totals based on rounded values, figures expressed in £'000)

Line 16 - Atypical payments capitalised

Nil

Line 19 - Interest

On adoption of IFRS in regulatory reporting in 2018/19, all contracts are now on-balance sheet and for each, the Company has recognised a finance lease creditor on its balance sheet. Entries to this line represent the notional interest on the finance lease. The data is consistent with the Company's financial accounts. See line 13 above for site allocation workings.

Additional Information - Consistency with the Company Accounts

The total unitary charge by contract reported in Table 42 is consistent with NIW's audited accounts. Following the move to IFRS reporting within AIR all contracts are now on balance sheet and residual interest is no longer reported.

In line with the guidance, a breakdown of the accruals / intercompany balances included in the year-end accounts in relation to each of the PPP contracts is as follows:

Figures in £'m	Alpha	Omega	Kinnegar	Total
	£m	£m	£m	£m
Unitary Charge	2.177	[redacted]	[redacted]	[redacted]
Disputed Amts	0.000			
BREF	0.000			
Other	0.000			

Of the [redacted] included for Omega, [redacted] relates to the outstanding monthly unitary charge invoices for February & March 2024 which was unpaid at 31 March 2023. Also included in this amount is [redacted] of additional unitary charge arising from the Ballynacor TDS mandatory contract change which became effective from 1 April 2010 and was agreed during 2013/14.

Contracted Adjustments to Payment Mechanisms

Omega: The Company has notified a change in the requirements for Faecal Coliform performance at North Down Ards WWTW in line with its contractual entitlement. This has resulted in the predetermined [redacted] in Unitary Charge on every day outside of the regulatory Bathing Season coming into effect since September 2011.

The Company and the Contractor have agreed the outcome of the mandatory process to correct Ballynacor tariffs and tariff bands in the event that the actual DWF encountered was similar to that determined in the pre contract Flow surveys, and not as low as that upon which the Contractor conditioned his bid tariffs upon. The result of the process is that the tariff for Ballynacor flows is marginally reduced for the remainder of the contract with effect from 1st January 2014.

The Company and the Contractor have engaged regarding the Contracted change [Schedule Defined] to the Sludge Lagoons at Ballynacor; which was valued at [redacted]. This has been effectively complete in Autumn 2015, the remaining [redacted] to finalise [Landscaping] was completed by August 2016.

Alpha: The EIB Step Down clause has become effective in the Alpha contract, with a resultant reduction in European Investment Bank interest charging to Dalriada Water, and the Unitary Charge being reduced by the predetermined contractual amounts for the remainder of the EIB loan period (2027). The amounts are, by agreement, deducted monthly from invoices rather than driving a new Unitary Charge tariff at considerable project expense (and loss of benefit).

Changes to the Contracts

- **Omega: Supplemental Agreement 3**

  This was executed during August 2011 to clarify the sludge performance requirements and deal with commercial matters surrounding uncertainty of sludge services performed in AIR11 period.

- **Omega: Supplemental 4**

  This was executed on 6th April 2012. It clarified the wastewater treatment flow management requirements to a measurable output, and in so doing dealt with the commercial issues surrounding disputed underperformance and payment entitlements in this area since May 2008. The Agreement also enabled the Company to reduce its monthly unitary charge liability by [redacted] (indexed) for the remainder of the contract term. A further passing down of rights and obligations in respect of NIE easements was included.

- **Omega: Change in Contractors Proposals – Duncrue St Centrifuge**

  In December 2012 the Company accepted a change in the contractor's asset base at Duncrue St, whereby the Contractor installed a Centrifuge in preference to the four belt presses inherited at Service Commencement. Whilst this improvement was funded by the Contractor and not the Company, the Company established an estimated change in electricity consumption liability and the Contractor agreed to fund the additional consumption at current tariffs (+ indexation), through a new payment Clause in the contract – consistent with the risk allocation at contract award.

- **Omega: Ballynacor Sludge Dewatering Plant Change**

  A pre-determined Change in the sludge disposal tariff arising from the underperformance of the Company's new Ballynacor Sludge Dewatering Facility following its initial commissioning in 2006/ 2007 during contract negotiations.

  The Omega contract was awarded on the understanding the new plant would be capable of producing >22% DS content in the years preceding Service Commencement.

  As was the case, records demonstrated the Company was only capable of achieving 19.6% DS operation during this period.

  The pre-determined (as agreed at Contract Award) cost reimbursement mechanism applies with the result that a schedule of semi-annual additional payments take place, dating back to Service Commencement in March 2010.

  Whilst the Contractor initially disputed the sums due, they finally conceded Company's valuation of such historical and future payments in September 2013.

  The cost of this mandatory change is approximately [redacted] (indexed) every semi-annual period until contract expiry in 2032.

- **Omega: Duncrue St Weighbridge Calibration Change**

  The weighbridge is integral to the determination of tonnes dry solid sludge for disposal and thus payment. The weighbridge is calibrated weekly and has never been outside calibration since first used in March 2010. The parties have agreed a cost reduction measure reducing the calibration to every 3 months. The cost saving to the Contractor is [redacted] and is shared 50:50 with the Company. The arrangements have been in effect since 3 December 2013.

- **Omega: Duncrue St Condenser Change**

  An Authority Change issued in advance of Service Commencement in 2009 to deal with a defective existing asset. Whilst the work was completed in 2009 the costs were only agreed in late 2013, with payment by the Company in 2014/15

- **Omega: Small Works NDA Access Change**

A [redacted] Change to pay for securing alternative access road at North Down Ards; a legacy from Water Service Deed of purchase of NDA lands in 2005 where the seller had the right to close up existing NDA access and provide alternative access and a Deed of Easement. Work is complete and payment has been made.

- **Omega: Richill DWF Change**

  The DWF into Richhill WWTW is lower than anticipated at commercial close, resulting in an unjust negative payment to the contractor at low flows due to a pre-agreed constant value for 0.8DWF. The parties have agreed an alternative value for the constant in the payment mechanism.

- **Omega: Donaghadee PS ICA Change**

  The Contractor offered and the Company accepted an energy saving change in the control of Donaghadee PS. The Company invested [redacted] in the project which has a payback in terms of electricity costs of <2 years. The project was delivered at the start of the AIR18 period.

- **Omega: Ballynacor WwTW Increased Capacity for Trade Effluent**

  At contract formation in 2007, the Company purchased a headroom for Trade Effluent of 500,000kg COD at Ballynacor WwTW for the term of the Contract. In 2016 the Company granted a Trade Effluent Discharge Consent to a trader in the Ballynacor Catchment which, in aggregate with all other active consents, has resulted in the purchased headroom being exceeded. This has triggered the Company's contractual liability to extend the treatment capacity. The parties are in discussion as to the most appropriate means of dealing with the fact that NIW now requires increased Trade Effluent capacity for the remaining term of the Contract.

- **Omega: Energy Gains Projects 2020**

  The Company has elected to invest [redacted] in a series of energy improving asset amendments identified by the Contractor as part of its annual obligation to review and suggest energy improvements. These included the syphon discharging at Bullay's Hill PS, SBR optimisation at North Down WWTW, pump control optimisation at Briggs Rock PS, Actuator controls at Armagh WWTW, and LED lighting at Duncrue ST Sludge Facility**.**

- **Omega: Settlement Agreement 17 August 2021**

  The Company has entered into a settlement agreement in respect of the outstanding claims and rights of both parties at 17 August 2021. The main elements of the agreement are:

  - All parties have ceded all historic rights of claim/ counter claim, with minor specified exceptions
  - The Company has made a payment of [redacted] to Glen Water
  - The Company and Glen Water have entered into an amended and restated Contract with the following key amendments:
    - Glen Water shall spend approximately [redacted] in (i) enhancing the hydraulic and treatment capacity of Ballynacor WWTW (ii) enhancing the dry solids content output of Ballynacor Sludge Facility (iii) enhancing the dry solids quality and asset resilience at Duncrue St Sludge Facility (iv) improving the Duncrue St steam turbine output and (v) measuring the real time influent loading at all Omega WWTWs.
    - Sharing the benefits of electricity generated & ROC's from Duncrue St turbine
    - Redefining the triggers and processes for growth investment in WWTW

- Realigning contract performance to WOC/IPPC standards
- Resetting the standard of Company's sludge

- **Omega: Discriminatory Change in Law: Incinerator BREF Change**
  The Contractor has served an indicative Notice that a Change in Law has occurred with the introduction of new Best Available Technology guidance for incinerator emissions (BREF) due to come in force by December 2023. Work continues to assess the impact of the change on both monitoring and abatement of emissions, both of which will be for the Company's account. Final Costs have not been determined at 1st April 2024.

- **Omega: Change to definition of Trade Effluent consents**
  Change made to the trigger level of Fats Oils Grease (FOG) levels which trigger a consultation with the Contractor before a traders in Omega catchments are issued with a Trade Effluent Consent.

- **Omega: Seagoe Network Syphon Investigations 2023**
  Small Works Change to allow the Company access and to control flows at Seagoe PS in order for the Company to investigate and clean the network syphon pipes upstream of the Seagoe Pumping Station.

- **Kinnegar: Supplemental Agreement 2**
  This commercial agreement resolved historical disputed payments, along with affecting a new odour model for the works and creating new contractor obligations in terms of regulatory reporting and sampling consistent with current Company obligations not envisaged at the time of procurement.

- **Kinnegar: Clause 10 Payment**
  A Variation was required in relation to the provision of the Holywood C Pumping Station by NI Water E&P, requiring part of the Leased Premises being returned to Company occupation, and the reimbursement of the Contractors costs with altering the necessary sewerage infrastructure. These costs amounted to [redacted] This value was paid to the Contractor on 30th January 2015.

- **Kinnegar: Financial Model Storage Arrangements**
  The Company and the Contractor have terminated the arrangements to keep a copy of the financial model with a third party.

- **Kinnegar: Early Debt Repayment Change**
  The Contractor has repaid the outstanding senior debt 15 months earlier than required.

- **Kinnegar: Lease Change 2020**
  The parties agreed to amend the Lease to allow for a contractor related affiliated company to be engaged by the Company to provide an electrolyser demonstrator project on the site. This project has no other impact on the PPP services.

- **Kinnegar: Change to Treated Effluent Sampling Frequency 2022.**
  In response to resourcing issues within the Company's UKAS accredited laboratories, the frequency of treated effluent contract sampling has been reduced from 7 days per week to 5 days per week (Mon-Fri). The contractor has accepted performance is still

measured 7 daily, with the weekly average being applied as the Sat/Sun performance.

- **Kinnegar: LWWP Upgrade Project- Support Costs 2022**
  A number of Variation Orders were issued to provide supporting resources and clearance works on site to enable the Living With Water Project Team to assemble design information for a future works upgrades.

- **Kinnegar Expiry Costs 2024**

  As part of the Handback arrangements for expiry of the contract on 30 April 2024, the company has exercised its rights to purchase critical spares, moveable property and consumables from the contractor on the date of expiry with an approximate cost of £117,000 .

- **Alpha Deed of Variation No.3**
  Amended and restated the contract in respect of all previous changes and corrections made to date.

- **Alpha Contractor Notice of Change (June 2012):**
  Reduced the scope of service (i.e. frequency and range of analytical tests) to achieve cost reduction in Unitary charge for the remaining contract period (Deriving £16,800 per year reduction in Company costs).

- **Alpha Contractor Change: Standby Generator Capacity for NI Power Grid**
  A contract change has been put in place to allow the Contractor to make the site generators at two WTW's available to an Aggregated Generation Unit (AGU) company in return for an 'availability charge.' The annual availability charge is estimated to be worth up to £20,000, with 50% of this revenue being netted off the Unitary Charge payable by NIW for the period of the AGU agreement (currently 5 years).

- **Alpha: Authority Change – Castor Bay to Belfast Pumping Station Upgrade**
  To support the increased output to Magheraliskmisk arising from the Castor Bay to Belfast Strategic link main project.

- **Sale of Kelda's ownership of the Contractor / Operating Company**
  In September 2016, Kelda indicated it was looking to sell all its UK PPP/PFI investments and operations. It invited several parties, including NIW, to bid for the Alpha PPP companies Dalriada Water (the Alpha PPP Contractor) and KWSA (the Alpha PPP Operating Company).

  On 19 November 2017, NIW clear Ltd (a subsidiary holding company of NIW Ltd) acquired ownership of Dalriada Water and KWSA (now renamed NIW Alpha ltd) from Kelda.

  The Alpha PPP contract remains in place and the Company continues to pay Unitary Charge tariffs for the volume of water provided by the Contractor, Dalriada Water Ltd. The Contractor continues to engage the services of the Operating Company (NIW Alpha Ltd) for service delivery and continues to service the senior debt liabilities with the lenders. The contract commitments between the parties remain unaltered at the point of new ownership.

- **Reduction in Frequency of Water Quality Monitoring**

In 2019, the Company and the Contractor have reduced the frequency of Water Quality monitoring within the Contract down to regulatory frequency to align with all monitoring costs of non-PPP WTWs.

- **Temporary Reduction in Water Quality Performance Measures**

  In early 2020, the Company agreed to a request to lessen the water quality performance requirements on a temporary basis to establish if the operating company could reduce its external operating costs, thereby reducing the overall Company costs for water treatment provision at the PPP facilities. The pilot change ran for 12 months and on unsuccessful completion in February 2021, the contracted performance standards reverted.

- **Deed of Variation No.5 – Ballinree's Authority changes**

  The Company issued 2 simultaneous changes relating to Ballinree's WTW access rights, in order to allow itself to (i) carry out pilot studies into pesticide/taste & odour treatment options, and (ii) construct a mobile pumping station for resilience/ drought mitigation purposes**.**

- **Deed of Variation No [TBC] – Insurances Deductibles Change**

  Due to market changes, the low level of excess on Physical Damage (PD) cover demanded of the PPP contract could not be secured at market rates. Consequently, the Company chose to issue a change to the contract terms that requires the Company to take the additional excess risk rather than the Contractor. This approach avoided its Contractor (also its subsidiary) incurring highly increased premiums for no benefit other than to satisfy Lenders terms. Note The level of PD excess exposure for the Company is now consistent for all non-infrastructure assets across the Company and its subsidiaries portfolio of clean water asset insurance. Update: This change was not accepted by the Lenders and remains subject to implementation.

- **2021 NTU Target Change**

  A change in the measured target level performance for turbidity to reflect changes to "Blue Book" laboratory testing processes and achievable limits of detection for turbidity results.

- **Deed of Variation No.6 – 2021 Energy Project Works Change**

  A change to allow the Company to enter the sites and invest in the following Capital Works Projects:

  - River Bann Pumping Station Pump Efficiency
  - Moyola WTW LLP Efficiency
  - Castor Bay LLP Main – Drought Resilience
  - Castor Bay – Magheraliskmisk Pump Capacity Upgrade

- **Deed of Variation No.7 – 2022 Ballinrees MCPA Works Change**

  A change to allow the Company to enter Ballinree's WTW to construct all necessary assets to improve the regulatory performance for pesticides namely MCPA before the regulatory commitment of 23 December 2023.

- **Deed of Variation No.8 – 2023 Castor Bay Ballydougan High Lift Pumps Change**

  A change to allow the Company to enter Castor Bay WTW to design and construct all necessary assets required to improve the performance and output of the Castor Bay to Ballydougan trunk main through a replacement high lift pumping station at Castor Bay WTW. This variation also permits the Company to enter the Alpha PPP

sites for the purposes of installing and operating pilot plant facilities, to inform future upgrade requirements at each PPP facility.

- **Dunore Point Liquid Oxygen Change – 2024**
  The Contractor has elected for resilience reasons to upgrade oxygen generators at Dunore Point with a fixed liquid oxygen tank and external supply of oxygen. This will result in significant savings for the Company in electricity costs, over and above the resultant cost of liquid oxygen incurred by the Contractor. The Company has therefore elected, through the contract payments, to fund the Contractor's liquid oxygen supply costs from the savings in electricity generated, to ensure the Lenders do not object to the Contractor's upgrade proposals.

Contractual Performance Failures during AIR24 Period

- **Alpha Performance Deductions: 2023/24**
  - Water Quantity failures can be referenced (on a monthly basis) in the Payment Calculation Schedule Tab 5 spreadsheet under the column heading 'CRF' for each Facility. *(The Company can provide supporting information with all 12 monthly Payment Calculation Schedules for the AIR year). Total deductions: £89,818.17 [AIR23 period total deductions £1,239,091.76].*
  - Water Quality Failures can be referenced on Payment Calculation Tab 9 under the column headed 'QRF' for each Facility *(The Company can provide supporting Information with all 12 monthly Payment Calculation Schedules for the AIR year).* Further details of the exact water quality parameter failed result can be referenced on the monthly Exceedance Reports derived from the Company's LIMS system *(The Company can provide supporting Information will all 12 LIM's Exceedance Reports for the Alpha Facilities. Total deductions: £294,109.00 [AIR23 period total deductions £253,109.09].* This return to the normally static trend of level of water quality deductions correlates to a combination of the removal of the temporary relaxation of contracted Water Quality standards and the 2021 NTU Target Change (see Contract Changes above) rather than any specific improvement or deterioration in assets or operation.

- **Kinnegar Performance Deductions 2023/24**

  The Company had determined that there had been no deductions applicable during the AIR24 period. *[AIR23 period [redacted] total deductions].*

- **Omega Performance Deductions 2023/24**
  - The Company has determined, and the Contractor has accepted the following failures on the Wastewater services during the period:
    - OR1 Deduction applied at Bullay's Hill [May 2023]: [redacted]
    - OR1 Deduction applied at Bullay's Hill [June 2023]: [redacted]
    - OR1 x 2 Deductions applied at Bullay's Hill [July 2023]: [redacted]
    - OR9 Deduction applied at Donaghadee [Aug 2023]: [redacted]
    - OR1 Deduction applied at Bullay's Hill [Sept 2023]: [redacted]
    - FM5 Deduction applied at Donaghadee [Sept 2023]: [redacted]

- FM5 Deduction applied at Briggs Rock [Sept 2023]: [redacted]
- OR1 Deduction applied at Bullay's Hill [Jan 2024]: [redacted]
- FM7 Deduction applied at Richhill [Jan 2024]: [redacted]

▪ The Company has determined but the Contractor has not accepted the following failures on Wastewater Services during the period:

- FM8 Deduction applied at Briggs Rock [Apr 2023]: [redacted]

Contractual Deductions made:

- Project Alpha as per Line 9 reporting for each Facility, based on the outputs of the monthly Payment Calculation Schedules.
- Project Omega; There was one disputed deduction applied during AIR24 [see above]. The remaining disputed sums, those of previous AIR periods, which totalled [redacted] still disputed. These values are not credited and are not therefore reflected in Line 9.
- Project Kinnegar; The Performance Deductions during the AIR24 period equates to [redacted] AIR23].

- **Equipment breakdowns**
  - The Company does not hold this level of operational detail as the risk has been transferred to the Contractors and passed down to the Operating sub-contractor.

- **Changes to the Descriptive Reports on the PPP Contracts**
  - There have been no further changes to the Alpha, Omega and Kinnegar Descriptive Reports, the record drawings for the replacement Holywood 'A' to Kinnegar WwTW pumping main was laid adjacent to the original pumping main ensured that the layout drawing doesn't require to be modified.

Line 21 - Distribution input

Data has been updated to reflect the methodology in Table 10 Line 26, where the variance in demand from the PPP sites placed by the Company, along with the variation in total water into distribution delivered by the Company contrive to give a new calculated figure for the individual sites and the Alpha contract as a whole. As a reassurance, the Ballinree's WTW Distribution Input for AIR23 was 10,805 Ml while the Distribution Input for AIR24 was 10,421 Ml which resulted in 29.60 Mld average to supply during AIR23 and 28.47 Mld average to supply in AIR24. Please refer to Line 27 for further commentary on Ballinree's APH.

Line 21a – Water treatment works capacity

There has been no change to the minimum required capacity of the Alpha WTW under the contract. However, the Contractor is entitled to declare 95% of the stated capacity without suffering performance deductions or breaching the contract.

Line 22- Length of mains

This data has not changed since AIR23.

Lines 23 – 24 - Turbidity

Background – Year on Year

During the period 2005 to date, a number of non-compliant water treatment works (WTWs) and small sources have either been completely replaced with new works, or else taken out of service as and when a replacement supply is available. During 2008, 5 existing major WTWs were replaced/upgraded as part of the Alpha PPP project. This contributed to the closure during 2009 of 6 non-compliant small water treatment works/sources.

During 2010 a further 2 non-compliant small water treatment works/sources were also closed. However, these were temporarily reinstated during the 2010-11 freeze/thaw incident to supplement strained water supplies.

During 2011 a further 3 non-compliant small water treatment works/sources were also closed.

During 2016 one further non-compliant small water treatment works was also closed.

At the end of 2016, the WTWs in service were stabilised with 19 NIW sites and 5 PPP, however as W3315P Forked Bridge is solely classified as a WTW due to pH modification, this site may be downgraded in the future to a service reservoir if this equipment is decommissioned.

During 2022 a new borewell was commissioned and brought into service to supplement the water supply to a small area in mid-ulster.

The previously PPP sites are now NIW Alpha, which is a company owned by NI Water.

The guidance now requires that the NIW Alpha sites are solely assessed in this table. Since

The calculations were carried using the following data criteria:

- Only scheduled audit final water samples lifted to meet Water Supply regulatory requirements during the calendar year were used and using accredited laboratory analyses rather than onsite analyses.
- Only those WTWs which had more than 11 months' worth of data or had temporary out of service gaps were included. This led to no PPP sites being excluded.

2023 NIW Alpha WTW Included in calculations

WTW Code	WTW Name	Turbidity 95 %ile	95 %ile >= 0.5	No of Samples >= 0.5 NTU
W1301P	Moyola PPP	0.160	0	1
W1701P	Ballinrees PPP	0.187	0	1
W2308P	Castor Bay PPP	0.170	0	1
W3301P	Dunore Point PPP	0.140	0	1
W3315P	Forked Bridge PPP	0.156	0	2

Line 25 – Source type

This data had changed in AIR13 to reflect the NI Water opinion that Ballinree's WTW should define three sources i.e. Ballinree's IR, Altikeeragh IR and an intake from the River Bann. All other WTW defined Sources remain unchanged from AIR15. The changes have been reflected in Table 12.

Line 26 – Treatment type

No change to the data since AIR23.

Line 27 – Average pumping head

The APH for 'Alpha Total' and 'Water Services Total' has complied with the requirements of Table 42 Line 27 guidance notes, wherein the Company use the PPP Distribution Input utilised in AIR24. The static heads at the receiving reservoirs remain unchanged each year, therefore the only changeable head input is the dynamic head as a result of the volumes pumped. The dynamic head is confirmed each year during pump efficiency tests across a range of flows to determine the figure to be used for AIR reporting purposes. While the DI for Ballinree's WTW has Decreased from the AIR23 level [DI for AIR23 was 10,805 Ml; DI for AIR24 was 10,421 Ml which equates to 29.60 Mld average to supply during AIR23 and 28.47 Mld in AIR24. The AIR24 period was much wetter than AIR23 which would have favoured gravity catchment when required. The River Bann abstractions in AIR23 were 7,602 ML and in AIR24 6,252 ML. The Ballinree's Output B2 average flow has Decreased from 6.43 Ml/d to 5.74 Ml/d [pumped flow to Break Pressure Tank at Moy's Service Reservoir – 117m head lift] This Decrease in B2 flow contributes less to the overall head at site.

Lines 28 – 29 – Sewerage data

No Change from AIR23 data.

Line 30 – population equivalent of total load received

Variation in calculated PE stems from variation in the measured sewage loads delivered to the sites by the Company, being the only variable part of the PE calculation. Consistent with data in Table 15 Loading.

Line 31 - Load received by STW's

Variation in calculated load stems from variation in the measured sewage loads delivered to the sites through the Company's sewer network. Commentary in Line 30 is also applicable for this line in relation to Kinnegar WwTW. Further commentary at Table 17D

Lines 32 – 36 - Consents

There have been no material changes to the Water Order Consents.

Line 37 - Classification of treatment works

No change to the treatment Facility classifications since AIR23.

Line 38 - Size band of sewage treatment works

No change since AIR23. Richhill WwTW remains classified as a size band 4 works in accordance with the criteria.

Line 39 - Total sludge imported from NI Water

From the 31 March 2010 the Omega Contractor has assumed responsibility for disposal of all NI Water sludges. The total Sludge imported from NI Water operated WWTW is recorded as 29.540 TTDS for the AIR24 period (last year the figure was 29.883 TTDS). The Kinnegar WwTW input is not included in this figure. The difference of 0.343 TTDS is mainly related to the reductions of NI Water Indigenous Sludge transfers from Belfast WWTW and Duncrue Liquid Imports.

Line 39a - Total sludge imported from other PPP Facilities

This is a new line, originally included in AIR22. Sludges from Armagh and Richhill are routinely delivered to Ballynacor WwTW to be converted into Sludge Cake prior to Incineration or final disposal. It aims to capture unusual use by other sites. This has not occurred during AIR24.

Lines 40 - Sludge produced by the PPP Facility

Whilst the total sludge production recorded against each PPP contract and PPP as a whole is reasonably consistent with last year's records, apart from Kinnegar WwTW, the records for each of the individual Omega sites are different from those recorded in AIR23. The reporter also requested that an estimate of the re-cycled solids from the Incinerator be produced, this has equated to 1.094 ttds [very little accuracy involved with this assumption/calculation] and was returned via Duncrue WwTW for further processing. [See Table 15 Line 17 Commentary].

PPP Production	**AIR24**	**AIR23**	**AIR22**	**AIR21**	**AIR20**	**AIR19**	**AIR18**	**AIR17**	**AIR16**	**AIR15**
Armagh WWTW	0.415	0.486	0.529	0.537	0.506	0.486	0.534	0.605	0.535	0.579
Richhill WWTW	0.066	0.074	0.076	0.070	0.066	0.067	0.068	0.071	0.071	0.063
Ballynacor WWTW	2.737	2.812	2.687	2.398	2.607	2.307	1.882	1.739	1.564	2.269
Ballyrickard WWTW	1.058	1.141	1.221	1.107	1.140	1.150	1.246	1.293	1.064	1.337
NDA WWTW	1.469	1.577	1.513	1.661	1.687	1.514	1.629	1.656	1.818	1.633
Kinnegar WWTW	0.750	0.552	0.275	0.580	0.699	0.805	0.331	0.302	0.501	0.668
Omega Screenings/Grit	0.139	0.181	0.162	0.156	0.141	0.220	0.233	0.206	0.083	0.083
Kinnegar Screenings/Grit	0.063	0.023	0.032	0.029	0.030	0.033	0.035	0.058	0.049	0.057
Totals	**6.697**	**6.846**	**6.495**	**6.538**	**6.876**	**6.582**	**5.958**	**5.930**	**5.685**	**6.689**

PPP Production	**AIR14**	**AIR13**	**AIR12**	**AIR11**
Armagh WWTW	0.547	0.535	0.570	0.759
Richhill WWTW	0.071	0.065	0.066	0.213
Ballynacor WWTW	2.007	2.069	3.330	2.468
Ballyrickard WWTW	1.126	1.158	1.225	1.627
NDA WWTW	1.920	1.628	1.559	1.753
Kinnegar WWTW	0.643	0.726	0.823	0.792
Omega Screenings/Grit	0.088	0.106		
Kinnegar Screenings/Grit	0.047	0.022		
Totals	**6.449**	**6.309**	**7.573**	**7.612**

The variations are tabulated below and on next page;

The changes in sludge production [shown below in graphical form below] records data for Omega reflect a probable combination of:

(i) Cumulative tolerances in the representative nature of dry solids sampling and flowmeter accuracy (particularly on smaller sites)

(ii) a mix of improved methodologies and record keeping systems for liquid and cake movements (as demanded by the Omega contract payment processes) implemented by end of AIR11, and

(iii) the loads delivered to the PPP contractor from the NI Water sewer network, outside the PPP contractor's control,

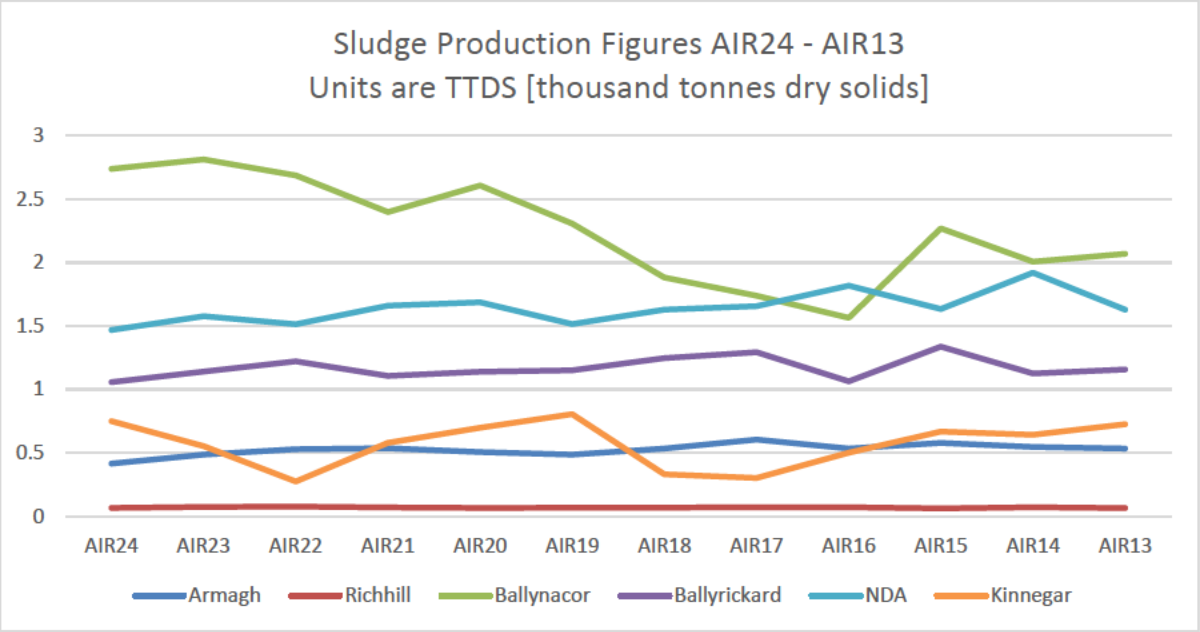
(iv) The timing of data capture, where prolonged dry periods can have a fluctuating effect from year to year on absolute values, and

(v) Operational difficulties experienced on individual sites.

(vi) Re-introduction of Grit removal at the Kinnegar WwTW.

The Omega sites continue to present a reasonably consistent trend over the last 5 year AIR periods, with Ballynacor WwTW increasing (albeit at a slower rate) each year and the remaining Omega sites decreasing slightly in sludge production. ..

Kinnegar WwTW has continued the trend seen last year when there was an upward trend associated with Sludge Production. Kinnegar WwTW has now demonstrated an improved Sludge production which has assisted with the removal of previously stored Sludges on site.



Line 41 - Sludge exported to Duncrue Incinerator

Variances from AIR23 are accounted for in Line 40 commentary above.

Line 42 - Sludge exported to other PPP facilities

This line had previously not been completed by NI Water, whereas this year [AIR24] this line has been completed to capture the transfer of Sludge from Armagh WwTW, Richhill WwTW, NDA and Ballyrickard WwTW's to Ballynacor Sludge Treatment centre, which is now included for the return of the Ballynacor WwTW.

Line 43 - Sludge exported to NI Water

No change from AIR23

Lines 44 - Sludge disposed of from site to - Farmland Untreated

Nil disposal arising from the Contractor's choice of alternative compliant disposal routes.

Lines 45 - Sludge disposed of from site to - Farmland Conventional

Nil disposal, arising from the Contractor's choice of alternative compliant disposal routes.

Lines 46 - Sludge disposed of from site to - Farmland Advanced

A full year service resulted in 2.864 TTDS arising from the Contractor's choice of alternative compliant disposal routes. This is at variance from the 2.227 TTDS in AIR23 and 0.931 TTDS report in AIR22 and is at the PPP contractor's discretion based on demand and availability of services at Duncrue St Sludge Facility.

Lines 47 - Sludge disposed of from site to - Incineration

A full year service resulted in 32.932 T TDS being incinerated as the contractor's preferred method of disposal, this being a lesser amount than reported in AIR 23 [34.297 TTDS] and AIR22 [36.015 TTDS] due to an overall reduction in the total sludge presented for disposal and changes to the tonnage sent for alternative disposal by the PPP Contractor.

Lines 48 - Sludge disposed of from site to - Landfill

A full year service resulted in 0.202 TTDS [0.139 TTDS Omega and 0.063 TTDS Kinnegar] arising from the Contractor's choice of alternative compliant disposal routes. The value represents only PPP Contractors sludges arising from grit and/or screenings removed directly from the sites to land fill, which is almost the same as the 0.204 TTDS reported in AIR23, even though the volume for Omega reduced while the volume for Kinnegar increased due to Grit disposal.

Lines 49 - Sludge disposed of from site to - Composted

A full year service resulted in 0.000 TTDS arising from the Contractor's choice of alternative compliant disposal. AIR23 reported a disposal of 0.000 TTDS.

Lines 50 - Sludge disposed of from site to - Land Reclamation

A full year service resulted in 0.237 TTDS arising from the Contractor's choice of alternative compliant disposal routes. AIR23 reported a disposal of 0.000 TTDS.

Lines 51 - Sludge disposed of from site to - Other (Forestry)

A full year service resulted in 0.000 TTDS arising from the Contractor's choice of alternative compliant disposal routes. AIR23 reported a disposal of 0.000 TTDS.

Lines 52 - Sludge disposed of from site to – Total

After a consultation meeting that had been arranged with the Regulator [during April 2022] in relation to a recommendation from the Reporter, NI Water PPP now understand the intent of this line and has filled it in in compliance with the regulator's recommendations.

NORTHERN IRELAND WATER LIMITED - ANNUAL INFORMATION RETURN

ANNUAL INFORMATION RETURN- TABLE 43 PPP REPORTING
PPP REPORTING - OPERATIONAL COSTS

	DESCRIPTION	UNITS	DP	Corresponding Report	SCHEME	SCHEME	SCHEME	SCHEME	SCHEME	SCHEME	SCHEME	SCHEME	SCHEME	SCHEME	SCHEME	SCHEME	SCHEME	SCHEME	SCHEME	SCHEME	SCHEME	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL
A	**PROJECT DESCRIPTION**				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
1	PPP Concession			na	Alpha	Alpha	Alpha	Alpha	Alpha	Alpha	Alpha	Kinnegar	Omega	Omega	Omega	Omega	Omega	Omega	Omega	Omega	Alpha	Kinnegar	Omega	Water	Sewerage
2	Service Area			na	WT	WT	WT	WT	WD	WD	WD	WWT	WWT	WWT	WWT	WWT	WWT	WWS	WWS	WWS	All	All	All	Service	Service
3	Name of works			na	Balinrees	Castor Bay	Dunore Point	Moyola	DBFO LM	Ballymoney LM	Limavady LM	Kinnegar	Richhill	Armagh	Ballynacor Craigavon	North Down	Ballyrickard	Ballinacor Lagoons	Ballynacor	Duncrue	Total	Total	Total	Total	Total
B	**PPP INFORMATION**																									
4	Payment to Concessionaire	£m	3	Table 42 Line 12	4.492	8.283	8.973	3.316	0.824	0.675	0.818										26.611			26.611	
5	Payment by Concessionaire to Operating Company	£m	3		1.774	3.715	3.382	1.171	0.000	0.000	0.000										10.042			10.042	
C	**DIRECT COSTS TO NI WATER**																									
6	Power	£m	3		1.332	3.695	3.258	0.788	0.000	0.000	0.000	0.000	0.089	0.251	1.592	2.012	0.530	0.000	0.232	1.791	9.073	0.000	6.497	9.073	6.497
7	Other direct costs	£m	3		0.066	0.010	0.010	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.096	0.000	0.000	0.096	0.000
8	Total direct costs	£m	3	sum 6 + 7	1.398	3.705	3.268	0.798	0.000	0.000	0.000	0.000	0.089	0.251	1.592	2.012	0.530	0.000	0.232	1.791	9.169	0.000	6.497	9.169	6.497
9	General and support expenditure	£m	3		0.053	0.052	0.053	0.053	0.053	0.053	0.053	0.061	0.033	0.033	0.033	0.033	0.033	0.000	0.033	0.033	0.370	0.061	0.231	0.370	0.292
10	Total functional expenditure	£m	3	sum 8 + 9	1.451	3.757	3.321	0.851	0.053	0.053	0.053	0.061	0.122	0.284	1.625	2.045	0.563	0.000	0.265	1.824	9.539	0.061	6.728	9.539	6.789
D	**OPERATING EXPENDITURE - NI WATER**																									
11	Scientific services	£m	3		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.017	0.002	0.002	0.007	0.003	0.004	0.000	0.000	0.071	0.000	0.017	0.089	0.000	0.106
12	Rates	£m	3		0.707	2.817	2.829	0.393	0.000	0.000	0.000	0.229	0.029	0.153	0.482	0.170	0.124	0.000	0.130	0.180	6.746	0.229	1.268	6.746	1.497
13	Estimated terminal pumping costs	£m	3									0.000	0.000	0.000	0.300	0.548	0.000	0.000	0.000	0.000		0.000	0.848		0.848
14	Estimated sludge costs	£m	3									0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.395	10.207		0.000	10.602		10.602
E	**TOTAL PPP OPERATING EXPENDITURE**																									
15	Total PPP operating expenditure	£m	3	Sum 5, 10, 11 and 12	3.932	10.289	9.532	2.415	0.053	0.053	0.053										26.327			26.327	

Table 43 - PPP Reporting – Operational Costs

Preface:
The Company highlights that on the 19 November 2017 a newly formed hold company subsidiary, NIW Clear Ltd, acquired sole ownership of both the Alpha PPP Contractor (Dalriada Water Ltd) and the Alpha PPP Operating Company (Kelda Water Services Alpha Ltd). These entities were acquired through a competitive bid process conducted by the previous owners, Kelda Water Services Ltd, which commenced in December 2016, following Kelda's announced sale of all their UK PPP/PFI water and energy commitments in September 2016. Post-acquisition, the contractual arrangements between the parties, including the senior lenders, has remained in place. There are no plans to collapse the Alpha PPP contract.

The reporting arrangements in Table 43 below remain unaffected by the acquisition and subsequent continuation of the existing commercial arrangements.

Note: As the atypical expenditure, efficiencies and performance deductions (Omega) were not divisible by site the cross tot on line 4 for Alpha and Omega will not agree – the total included in the total column is correct for the Payments to the Concessionaire.

Line 4 – Payment to concessionaire
The figures on this line are taken directly from Line 12 of Table 42 and any significant changes from the previous year have been commented on in the Table 42 commentary.

Alpha
The data is derived from the Contractors monthly invoice and can be split on a site-by-site basis and in each case represents the sum of the Unitary Charge payments (Capacity + Variable – Deductions) agreed with the Contractor. It also includes atypical amounts as follows:

	£m
Quality Monitoring Change credit	-0.621
EIB Step-down	-0.067
Refund in respect of reorganisation costs	-0.082
Total	**-0.770**

Kinnegar
The data is provided as an aggregate of the monthly invoiced amounts by the Contractor to the Company. It includes atypical amounts as follows:

	£m
Handback expenditure	[redacted]
Total	[redacted]

Omega
The data is provided as an aggregate of the monthly invoiced amounts by the Contractor to the Company in respect of the Services. It includes the disputed amounts where the Contractor has not recognised the Performance Deductions made by the Authority and has not provided a credit note to the original invoice. During the reporting year performance

deductions of [redacted] were recognised by the contractor. In addition this line includes atypical amounts as follows:

	£m
Supplemental 4 agreement	[redacted]
Change in calibration frequency	
Omega Settlement Accounting	
BREF	
Other	
Total	

Line 5 - Payment by concessionaire to operating company

Alpha

This figure is equal to the figure quoted in Line 22a of Table 21. This figure will vary from year to year depending upon volumes of water dispatched, changes in the volumetric charge, deductions incurred and indexation, all off which flow from the Authority through the Contractor to Operating Company.

Omega

This figure is equal to the figure quoted within Line 21a of Table 22. This figure will vary from year to year depending upon volumes of wastewater delivered, change in sludge volumes delivered for disposal, deductions incurred and indexation. The charge for Sludge Treatment has increased during AIR24 [redacted] compared with AIR23 [redacted] and this relates to the increase in costs. Albeit the Sludge processed has been largely comparable [AIR24 – 36.2 TTDS; AIR23 – 36.7 TTDS]. However, the payments from Concessionaire to Operating Company are commercial sub-contracting arrangements upon which the Company can only speculate.

Kinnegar

This figure is equal to the figure quoted within Line 21a of Table 22. This figure will vary from year to year depending upon volumes of wastewater delivered, change in load delivered, deductions incurred and indexation, all off which flow from the Authority through the Contractor to Operating Company.

Line 6 - Power

Power costs reported on this line reflect a facility breakdown of the power costs included in Tables 21 and 22. This is taken directly from MPRN references and location codes in the Oracle system. In respect of the Kinnegar Concession, the power costs are paid by the operating company from the monthly payment from the Concessionaire.

Line 7 - Other direct costs

This line includes the cost of abstraction licences at each of the PPP Alpha sites. There are no other direct costs for Kinnegar or Omega.

Line 9 - General and support expenditure

General and support costs have been calculated using costs attributable to the P101 cost centre. These costs have been allocated by project on the basis of percentage time spent by each staff member working on each project and in the case of consultancy based on actual invoices received. Costs were then allocated straight line across the number of sites included within each concession. No work giving rise to a general and support expenditure

allocation was carried out on the Ballynacor Lagoons site during the year hence no costs have been attributed to this site.

Line 11 - Scientific services

Scientific services costs have been allocated to PPP sites on the basis of the percentage of samples attributable to each PPP site, an allocation of staff costs based on actual hours and operational contractor costs on the basis of estimated cost per site visit.

Line 12 - Rates

Alpha

Rates at water supply sites are based on water volumes. In order to allocate a proportion of the rates bill to the Alpha sites the volume of water supplied at each PPP site was taken as a percentage of the total NIW water supplied and this figure was multiplied by the total NIW rates cost.

Kinnegar

Kinnegar rates charge was taken directly from the rates bill.

Omega

The rates figure for each of the Omega sites was taken directly from rates bills. The bill for the Duncrue site was allocated between PPP and NIW in line with the total area of the site occupied by PPP, which has estimated as 15% of the Duncrue site. The Ballynacor site rates have been split on a 65:35 wastewater to sludge split.

Line 13 - Estimated terminal pumping costs

This line reflects the power costs associated with Seagoe, Bullay's Hill (Ballynacor facility) and Briggs Rock, Millisle and Donaghadee (North Down Facility). These were derived from the Oracle system using the location code for each site.

Line 14 - Sludge costs

This line reflects the costs associated with the PPP sludge facilities at Duncrue Street and Ballynacor. It totals the costs included at line 5, 10, 11 and 12.

NORTHERN IRELAND WATER LIMITED - ANNUAL INFORMATION RETURN

ANNUAL INFORMATION RETURN - TABLE 44 OPA INPUT DATA
OVERALL PERFORMANCE ASSESSMENT

	DESCRIPTION	UNITS	DP	1 REPORTING YEAR 2015-16	CG	2 REPORTING YEAR 2016-17	CG	3 REPORTING YEAR 2017-18	CG	4 REPORTING YEAR 2018-19	CG	5 REPORTING YEAR 2019-20	CG	6 REPORTING YEAR 2020-21	CG	7 REPORTING YEAR 2021-22	CG	8 REPORTING YEAR 2022-23	CG	9 REPORTING YEAR 2023-24	CG	10 REPORTING YEAR 2024-25	CG	11 REPORTING YEAR 2025-26	CG	12 REPORTING YEAR 2026-27	CG
A	**WATER SUPPLY**																										
	DG2 PROPERTIES RECEIVING PRESSURE/FLOW BELOW REFERENCE LEVEL																										
1	Total connected properties at year end	nr	0	839,710	A2	852,399	A2	862,988	A2	874,307	A2	883,423	A2	892,910	A2	902,692	A2	910,098	A2	919,190	A2						
2	Properties below reference level at end of year	nr	0	900	B3	862	B3	711	B3	719	B3	626	B3	578	B3	1,715	A2	1,780	B3	1,617	A2						
3	% of total properties at risk of low pressure (OPA Low pressure value)	%	2	0.11	B3	0.10	B3	0.08	B3	0.08	B3	0.07	B3	0.06	B3	0.19	A2	0.20	B3	0.18	A2						
	DG3 PROPERTIES AFFECTED BY UNPLANNED INTERRUPTIONS																										
4	More than 6 hours	nr	0	8,699	A3	5,128	A3	6,097	A3	3,509	A3	6,157	A3	1,834	A3	13,581	A3	1,322	A3	1,768	A3						
5	More than 12 hours	nr	0	841	A3	494	A3	861	A3	308	A3	751	A3	0	A3	710	A3	0	A3	0	A3						
6	More than 24 hours	nr	0	32	A3	0	A3		A3	0	A3	23	A3	0	A3	12	A3	0	A3	0	A3						
7	Total connected properties at year end	nr	0	839,710	A2	852,399	A2	862,988	A2	874,307	A2	883,423	A2	892,910	A2	902,692	A2	910,098	A2	919,190	A2						
8	OPA supply interruption value	nr	2	1.14	A3	0.66	A3	0.81	A3	0.44	A3	0.79	A3	0.21	A3	1.59	A3	0.15	A3	0.19	A3						
	DRINKING WATER QUALITY																										
9	% iron compliance at consumers tap	%	2	98.40	A2	98.66	A2	98.85	A2	98.94	A2	98.89	A2	99.56	A2	99.35	A2	99.15	A2	99.71	A2						
10	% managanese compliance at consumers tap	%	2	99.89	A2	99.84	A2	99.90	A2	99.95	A2	99.90	A2	100.00	A2	99.80	A2	100.00	A2	99.90	A2						
11	% aluminium compliance at consumers tap	%	2	99.25	A2	99.36	A2	99.79	A2	99.74	A2	99.40	A2	99.29	A2	99.65	A2	99.80	A2	99.61	A2						
12	% turbidity compliance at consumers tap	%	2	99.73	A2	99.95	A2	100.00	A2	100.00	A2	99.95	A2	100.00	A2	99.95	A2	100.00	A2	99.95	A2						
13	% faecal coliforms compliance at consumers tap	%	2	99.98	A2	100.00	A2	99.94	A2	100.00	A2	99.98	A2	100.00	A2	99.98	A2	99.98	A2	100.00	A2						
14	% trihalomethanes compliance at consumers tap	%	2	99.74	A2	96.94	A2	98.48	A2	99.48	A2	99.00	A2	100.00	A2	99.07	A2	98.83	A2	97.84	A2						
15	Average overall compliance figure (Drinking Water Quality OPA value)	nr	2	99.50	A2	99.13	A2	99.49	A2	99.69	A2	99.52	A2	99.81	A2	99.63	A2	99.63	A2	99.50	A2						
B	**SEWERAGE SERVICE**																										
	DG5 SEWER FLOODING - OVERLOADED																										
16	Flooding incidents in the year (overloaded sewers)	nr	0	4	B2	3	B2	0	B2	0	B2	0	B2	0	B2	6	B2	14	B2	9	B2						
17	Flooding incidents (overloaded sewers attributed to severe weather)	nr	0	1	B2	2	B2	0	B2	7	B2	0	B2	3	B2	6	B2	13	B2	6	B2						
18	Number of domestic properties connected to sewerage system	000	1	638.1	A2	648.6	A2	657.9	A2	668.3	A2	677.1	A2	685.0	A2	692.1	A2	698.8	A2	702.9	A2						
19	% of domestic properties flooded by overloaded sewers (Overloaded sewers OPA value)	%	4	0.0005	B3	0.0002	B2	0.0000	B2	-0.0010	B2	0.0000	B2	-0.0004	B2	0.0000	B2	0.0001	B2	0.0004	B2						
	DG5 SEWER FLOODING - OTHER CAUSES																										
20	Flooding incidents (other causes - equipment failures)	nr	0	1	B2	1	B2	0	B2	2	B2	4	B2	0	B2	0	B2	0	B2	1	B2						
21	Flooding incidents (other causes - blockages)	nr	0	34	B2	38	B2	26	B2	17	B2	6	B2	11	B2	18	B2	15	B2	23	B2						
22	Flooding incidents (other causes - collapses)	nr	0	3	B2	8	B2	7	B2	4	B2	14	B2	5	B2	12	B2	14	B2	12	B2						
23	Number of domestic properties connected to sewerage system	000	1	638.1	A2	648.6	A2	657.9	A2	668.3	A2	677.1	A2	685.0	A2	692.1	A2	698.8	A2	702.9	A2						
24	% of domestic properties flooded by other causes (Other causes OPA value)	%	4	0.0060	B3	0.0072	B2	0.0050	B2	0.0034	B2	0.0035	B2	0.0023	B2	0.0043	B2	0.0041	B2	0.0051	B2						
	DG5 PROPERTIES ON THE FLOODING REGISTER																										
25	2 in 10 register at end of year	nr	0	59	B2	61	B2	57	B2	57	B2	55	B2	50	B2	52	B2	49	B2	47	B2						
26	Problems solved due to ESL funding	nr	0	3	B2	3	B2	6	B2	4	B2	1	B2	10	B2	3	B2	3	B2	16	B2						
27	1 in 10 register at end of year	nr	0	7	B2	6	B2	4	B2	2	B2	2	B2	0	B2	1	B2	0	B2	0	B2						
28	Number of domestic properties connected to sewerage system	000	1	638.1	A2	648.6	A2	657.9	A2	668.3	A2	677.1	A2	685.0	A2	692.1	A2	698.8	A2	702.9	A2						
29	% of domestic properties considered to be at risk of flooding by sewage (At risk OPA value)	%	4	0.0103	B2	0.0103	B2	0.0099	B2	0.0093	C2	0.0084	B2	0.0088	B2	0.0080	B2	0.0074	B2	0.0090	B2						
C	**SECURITY OF SUPPLY**																										
	DG4 HOSEPIPE RESTRICTIONS																										
30	Hosepipe retrictions (OPA value)	nr	0	0	A1	0	A1	0	A1	264	B2	0	A1	0	A1	0	A1	0	A1	0	A1						
	LEAKAGE																										
31	Leakage (Target)	nr	2	163.00		161.00		159.00		157.00		155.00		153.00		157.00		156.00		154.00							
32	Leakage (Actual)	nr	2	161.99	B3	163.43	B3	162.43	B3	160.14	B3	160.53	B3	157.71	B3	155.64	B3	162.30	B3	155.35	B3						
33	% of leakage target not met (Leakage OPA value)	nr	2	0.00	B3	0.49	B3	0.99	B3	1.85	B3	2.50	B3	2.80	B3	1.87	B3	2.03	B3	1.33	B3						
	SECURITY OF SUPPLY - ABSOLUTE PERFORMANCE																										
34	Security of supply index – company's actual based on planned level of service (Absolute performance OPA value)	nr	0	100	A2	100	A2	100	A2	100	A2	100	A2	99	A2	100	A2	99	A2	100	A2						
	SECURITY OF SUPPLY - PERFORMANCE AGAINST TARGET																										
35	Security of supply index - planned (target) levels of service	nr	0	100	A2	100	A2	100	A2	100	A2	100	A2	100	A2	100	A2	100	A2	100	A2						
36	Security of supply index - company's actual based on planned level of service	nr	0	100	A2	100	A2	100	A2	100	A2	100	A2	99	A2	100	A2	99	A2	100	A2						
37	% of target not met (Performance against target OPA value)	%	2	0.00	A2	0.00	A2	0.00	A2	0.00	A2	0.00	A2	1.00	A2	0.00	A2	1.00	A2	0.00	A2						
D	**CUSTOMER SERVICE**																										
	DG6 - RESPONSE TO BILLING CONTACTS																										
38	Number dealt with within 5 working days	nr	0	75,462	B2	77,679	B2	71,386	B2	77,010	B2	53,928	B2	42,968	B2	45,126	B2	45,686	B2	45,855	B2						
39	Total billing contacts	nr	0	75,490	B2	77,698	B2	71,409	B2	77,016	B2	53,942	B2	42,975	B2	45,138	B2	45,697	B2	45,884	B2						
40	% of billing contacts answered within 5 working days (DG6 OPA value)	%	2	99.96	B2	99.98	B2	99.97	B2	99.99	B2	99.97	B2	99.98	B2	99.97	B2	99.98	B2	99.94	B2						
	DG7 - RESPONSE TO WRITTEN COMPLAINTS																										
41	Total written complaints	nr	0	2,269	B2	2,375	B2	2,274	B2	2,133	B2	1,958	B2	1,885	B2	1,954	B2	1,812	B2	1,656	B2						
42	Number dealt with within 10 working days	nr	0	2,266	B2	2,375	B2	2,271	B2	2,133	B2	1,957	B2	1,883	B2	1,954	B2	1,812	B2	1,656	B2						
43	% of written complaints answered within 10 working days (DG7 OPA value)	%	2	99.87	A1	100.00	A1	99.87	B2	100.00	B2	99.95	B2	99.89	B2	100.00	B2	100.00	B2	100.00	B2						
	DG8 - BILLING METERED CUSTOMERS																										
44	Company or customer readings (or both)	nr	0	67,366	A1	68,051	A1	68,420	A1	68,621	A1	68,958	A1	69,206	A1	70,253	A1	70,574	A1	70,461	A1						
45	Total metered accounts	nr	0	123,763	A1	127,807	A1	128,705	A1	129,387	A1	130,375	A1	130,887	A1	131,590	A1	132,279	A1	132,927	A1						
46	Metered accounts excluded from indicator	nr	0	55,875	A1	59,428	A1	60,060	A1	60,542	A1	61,091	A1	61,137	A1	61,100	A1	61,539	A1	62,314	A1						
47	% of metered accounts which have meter based bills (DG8 OPA value)	%	2	99.23	A1	99.52	A1	99.67	A1	99.67	A1	99.53	A1	99.22	A1	99.66	A1	99.77	A1	99.78	A1						
	DG9 TELEPHONE CONTACT																										
48	Total of calls not abandoned	nr	0	209,284	A2	216,015	A2	211,061	A2	213,835	A2	196,289	A2	184,198	A2	184,024	A2	166,814	A2	159,478	A2						
49	Total calls received on customer contact lines	nr	0	210,487	A2	217,023	A2	212,095	A2	215,011	A2	197,184	A2	188,658	A2	190,719	A2	175,475	A2	169,023	A2						
50	% calls not abandoned (0.25 of DG9 OPA value)	%	2	99.43	A2	99.54	A2	99.51	A2	99.45	A2	99.50	A2	97.64	A2	96.49	A2	95.06	A2	94.35	A2						
51	All lines busy	nr	0	159	A2	63	A2	18	A2	29	A2	44	A2	76	A2	30	A2	0	A2	0	A2						
52	% calls not engaged (0.25 of DG9 OPA value)	%	2	99.92	A2	99.97	A2	99.99	A2	99.99	A2	99.98	A2	99.96	A2	99.98	A2	100.00	A2	100.00	A2						
53	Call Handling Satisfaction - not used	nr	2	4.59	A1																						
E	**ENVIRONMENTAL PERFORMANCE**																										
	POLLUTION INCIDENTS																										
54	Number of High & Medium category pollution incidents (Sewage)	nr	0	21	A1	22	A1	20	A1	15	A1	13	A1	7	A1	12	A1	9	A1	11	A1						
55	Equivalent population served (resident)	000	2	2119.20	C3	2098.83	C3	2101.35	C3	2265.55	C3	2266.46	C3	2335.81	C3	2410.14	C3	2414.18	C3	2,484.10	C3						
56	Number of High and Medium sewage incidents per million resident population equivalent (pe) served (H&M sewage incidents OPA value)	nr	2	9.91	C5	10.48	C5	9.52	C3	6.62	C3	5.74	C3	3.00	C3	4.98	C3	3.73	C3	4.43	C3						
57	Number of Low category pollution incidents (Sewage)	nr	0	117	A1	114	A1	109	A1	111	A1	85	A1	112	A1	97	A1	83	A1	69	A1						
58	Number of Low sewage incidents per million resident population equivalent (pe) served (Low sewage incidents OPA value)	nr	2	55.21	C5	54.32	C5	51.87	C3	48.99	C3	37.50	C3	47.95	C3	40.25	C3	34.38	C3	27.78	C3						
59	Number of High & Medium category pollution incidents (Water)	nr	0	0	A1	0	A1	0	A1	1	A1	0	A1	2	A1	0	A1	0	A1	0	A1						
60	Winter population	000	2	1874.73	C2	1887.10	C2	1896.46	C2	1902.33	C2	1914.49	C2	1905.05	C2	1910.42	C2	1939.70	C2	1,947.17	C2						
61	Number of High and Medium water incidents per million resident population served (H&M water incidents OPA value)	nr	2	0.00	C5	0.00	C5	0.00	C3	0.53	C3	0.00	C3	1.05	C3	0.00	C3	0.00	C3	0.00	C3						
	SEWAGE - SLUDGE DISPOSAL																										
62	Percentage unsatisfactory sludge disposal (Sludge disposal OPA value)	%	2	0.00	A1	0.00	A1	0.00	A1	0.00	A1	0.00	A1	0.00	A1	0.00	A1	0.00	A1	0.00	A1						
	SEWERAGE SERVICE - BREACH OF CONSENT																										
63	WWTW Discharge consent % compliance (WWTW compliance OPA value)	%	2	1.38	C5	1.08	C5	1.33	C5	0.60	C5	0.50	C5	0.50	C5	0.74	C5	0.89	C5	0.78	C5						

NORTHERN IRELAND WATER LIMITED - ANNUAL INFORMATION RETURN

ANNUAL INFORMATION RETURN - TABLE 45 KEY OUTPUTS
ENERGY CONSUMPTION AND GREENHOUSE GAS ACCOUNTING

	DESCRIPTION	UNITS	DP	1 NIW	CG	2 PPP	CG	3 NIW Total	CG
A	**ELECTRICITY CONSUMPTION**								
1	Grid electricity purchased (excluding renewable energy)	MW.hr	0	102,335	A1	15,169	A2	117,504	A1
2	Grid electricity purchased - renewable energy	MW.hr	0	156,624	A1	23,181	A2	179,805	A2
3	Non-renewable electricity generated and used	MW.hr	0	0	A1	0	A2	0	A2
4	Renewable electricity generated and used	MW.hr	0	6,795	A1	4,531	A1	11,326	A1
5	Total electricity consumption	MW.hr	0	265,754	A1	42,881	A2	308,635	A2
6	Non-renewable electricity generated and exported to the grid	MW.hr	0	0	A1	0	A2	0	A2
7	Renewable electricity generated and exported to the grid	MW.hr	0	1,561	A1	0	A2	1,561	A2
8	Total renewable enegry generated	MW.hr	0	8,356	A1	4,531	A1	12,887	A1
B	**GROSS ANNUAL OPERATIONAL GHG EMISSIONS**								
B.1	**Scope 1 Emissions**								
9	Direct emissions from burning fossil fuels (including natural gas CHP generation on site)	$t.CO_2 e$	0	2,319	A1	2,716	A2	5,035	A2
10	Process and fugitive emissions	$t.CO_2 e$	0	7,929	C3	13,182	C3	21,111	C3
11	Transport: company owned or leased vehicles	$t.CO_2 e$	0	2,121	A2	96	A2	2,218	A2
B.2	**Scope 2 Emissions**								
12	Total grid energy used (including CHP electricity purchased).	$t.CO_2 e$	0	53,624	A1	7,941	A2	61,565	A2
B.3	**Scope 3 Emissions**								
13	Business travel on public transport and private vehicles used for company business	$t.CO_2 e$	2	555.35	B2	Not available		555.35	B2
14	Outsourced activities (if not included in Scope 1 or 2) Energy and other	$t.CO_2 e$	2	35.61	A4	17.92	C5	53.53	A4
15	Purchased electricity - Transmission and Distribution	$t.CO_2 e$	2	4,639.31	A2	1,106.44	A2	5,745.75	A2
16	Emissions from sludge and process waste disposal	$t.CO_2 e$	2	3,104.76	C2	98.22	C2	3,202.98	B2
17	Gross operational emissions	$t.CO_2 e$	0	74,329.09	B3	25,158.21	B3	99,487.30	B3
C	**Net annual operational emissions**								
18	Exported renewables (generated on-site and exported)	$t.CO_2 e$	2	-283.97	A2	0.00	A2	-283.97	A2
19	Green tariff electricity purchased	$t.CO_2 e$	2	-32,432.96	A2	-4,800.32	A1	-37,233.28	A2
20	Net operational emissions	$t.CO_2 e$	0	41,612.16	B3	20,357.89	B3	61,970.05	B3
D	**ANNUAL OPERATIONAL GHG INTENSITY RATIO VALUES**								
21	Operational GHG per Ml of treated water	$t.CO_2 e/Ml$	3	0.189	C3	0 000	0	0.189	C3
22	Operational GHG per Ml of sewage treated (flow to full treatment)	$t.CO_2 e/Ml$	3	0 535	C3	0 378	C3	0.471	C3
23	Operational GHG per Ml of sewage treated (based on water distribution input)	$t.CO_2 e/Ml$	3	0 343	C3	0 274	C3	0.317	C3
E	**RENEWABLE INCENTIVES**								
24	Revenue from renewable energy sales and incentives	£000	3	752 000	A4	0 000	A2	752.000	A2

Table 45 - Energy Consumption and Greenhouse Gas Accounting

Table 45 contains data relevant to the Company's energy consumption and greenhouse gas (CHG) accounting as requested for the AIR24 return.

Table 45 has been populated in line with guidance provided by NIAUR and contains data sets both internal and external as required and as set out within the sections detailed below.

Table 45 reports emissions generated by the Company (including ALPHA) and outsourced PPP (Omega and Kinnegar) concessions working for the appointed business in carrying out any part of its regulated activities.

Table 45 reports emissions generated by the Company (including ALPHA) and by outsourced PPP (Omega & Kinnegar) concessions in separate columns and also calculates a Company total.

Reporting Outputs

Table 45 has been populated in line with the reporting requirements outlined in the methodology statement for this table and this is detailed further below.

Data has been provided in Table 45 for energy consumption, gross and net tonnes CO_2e of operational emissions.

The total fugitive and process emission reported is c21k tonnes, how this has been established is by the creation of two independent CAW 18 workbooks. One representing NIW (including ALPHA) and PPP (Omega and Kinnegar). The values for process and fugitive emissions have then been added together to generate a NIW Total figure.

GH intensity factors have been reported in Table 45 for NIW, PPP and Total using figures inputted from other tables submitted in the AIR. A pro rata split of waste water has been applied to calculate the GHG associated with each section for waste water NIW (61.24%) and PPP (38.78%).

The revenue from the sale of renewable electricity and other incentives is reported as previous years.

Lines 1 – 8 Electricity Consumption

This section provides data relevant to the total electricity consumption within NIW and PPP concessions, a breakdown by renewable and non-renewable energy sources and data related to company generated renewable electricity.

The Company has purchased and self-generated circa 62% of its total electricity consumption from renewable sources within the reporting period, with a breakdown of NIW at 61.5% and PPP at 64.6%.

Self-generated renewable electricity has been via Hydro, Solar schemes across several sites and a steam turbine at the Incinerator. The total outputs are estimated in Table 1.

Table 1

Site	kWh Generated	kWh Exported	kWh Consumed on site
Hydro – Silent Valley (REGO)	661,725	661,725	0
Hydro – Oaklands (Non-REGO)	166,760	166,760	0
Hydro – Fofanny (Non-REGO)	408,993	0	408,993
Steam (Non-REGO)	4,531,249	0	4,531,249
Dunore Solar Farm (REGO)	5,932,879	709,390	5,223,488
Solar PV Installations (REGO)	281,316	234	281,082
63 Solar PV Installations (Non-REGO)	904,690	12,821	891,869

Further investigatory work is ongoing to enable installation of hydro and wind turbine systems at other sites. Installation of some of these systems may occur over PC21.

The level of self-generation is further complemented by procurement of renewable electricity from the Single Electricity Market (SEM). NIW has built into the new metered electricity contract that approximately >60% of consumption would be electricity from a renewable source and covered by Renewable Energy Guarantees of Origin (REGO). NIW entered into the day ahead electricity market in October 2023.

Lines 9 – 17 Gross Annual Operational GHG Emissions

This section provides gross annual operating GHG emissions in tonnes CO_2e within NIW and PPP concessions, broken down as follows:

- direct emissions from burning fossil fuels;
- process and fugitive emissions and
- transport emissions.

Emissions have been reported under Scope 1, 2 and 3 headings and these are detailed further below.

Scope 1 (lines 9-11) report on all emissions emitted directly from the Company's appointed activities. This includes direct emissions from burning of fossil fuels, direct process emissions and transport owned or leased by the Company.

Scope 2 (line 12) reports on all emissions indirectly emitted as a result of electricity usage.

Scope 3 (lines 13 - 17) reports on all other indirect emissions not included in scope 2. Scope 3 emissions will be those from business travel on public transport and private vehicle usage for company business (line 13). Grey fleet emissions are all quantified as scope 3 including emissions arising from air transport and public transport. Line 14 relates to outsourced activities (if not included in scope 1 or 2) Energy and other. Line 15 has been inserted relating to 'Grid electricity purchased - transmission and distribution'. Line 16 relates to 'Emissions from sludge and process waste disposal' this has been entered from information generated in the DEFRA report table within the CAW under the generated additional scope 3 emissions not included in company totals. NIW disposal of water and wastewater treatment to landfill emissions have been included. PPP additional Scope 3 emissions not included in company totals for the generated application of sludge products to others' land and disposal of wastewater treatment to landfill emissions have been included.

Lines 18 – 20 Net annual operation Emissions

This section reports on net annual operational emissions derived from renewable energy generated onsite and then exported (line 19) and green energy purchased (line 20). These reductions have been subtracted from the gross emissions value (line 18) to provide a net operational emissions figure in (line 21).

Lines 21 – 23 Annual operating GHG Intensity Ratio Values

This section is intended to provide annual operating GHG intensity ratios in tonnes CO_2e per mega litre for the provision of water and sewerage service using water and waste flows as a denominator.

Two intensity ratios will ultimately be provided for sewerage service, one using table 14 data as a denominator and one using additional road drainage in-flow. Details of intensity ratios and confidence grades are included in Table 2.

Table 2

Description	Unit	NIW	PPP	TOTAL	CG
Annual operational emissions intensity ratio per Ml of treated water	tonnes CO_2e/ ML	0.189	N/A	0.189	C3
Annual operational emissions intensity ratio per Ml of treated sewage (FFT)	tonnes CO_2e/ ML	0.535	0.376	0.471	C3
Annual operational emissions intensity ratio per Ml of treated sewage (DI Input)	tonnes CO_2e/ ML	0.343	0.274	0.317	C3

*NB: N/A has been inserted under PPP as ALPHA has been defined within NIW direct scope 1&2 emissions.

Line 24 Renewable Incentives

This section provides data relevant to Company income from renewable electricity sales and associated incentives such as ROC revenue.

Confidence Grades

Confidence grades have been assigned for each line of data and these are based on the criteria set out in the Introduction to the AIR23 Reporting Requirements and guidance within the UKWIR-CAW 17.0.

Processing rules and Emissions Conversion Factors:

The Company has provided output data within Table 45 as calculated using the UKWIR-CAW 18.0 for GHG emissions associated with the provision of water, wastewater, sludge disposal, administrative function and transport in its AIR24 return.

Data sources for the AIR24 return have been generated from supplier's monthly consumption figures associated with the use of electricity, gas and other fuels where data is attainable. Estimations have only been used where there is deemed material impact and enough historical information is available with which to estimate quantities.

All energy conversions have been derived from the CAW 18.0 and are aligned to the Defra/BEIS guidelines using the relevant emissions factor for kg of CO_2 per measured unit of energy. The calculations are carried out within locked cells in the CAW 18.0.

Gross operational emissions reported in Table 45 are the Company's total carbon emissions resulting from operational activities.

Net operational emissions reported in Table 45 are a calculation of gross operational emissions taking into account emissions reductions for on-site renewable energy that is exported and renewable energy that has been purchased.

The below intensity figures are under review for the reasons previously cited.

- The $t.CO_2e$/ML GHG intensity output figure for treated water emissions will (in due course) be derived from and include all carbon emissions from the abstraction, treatment and distribution of water, associated administrative and transport emissions divided by the volume of treated water; and
- The $t.CO_2e$/ML GHG intensity output figure for treated wastewater will (In due course) be derived from all carbon emissions from wastewater pumping, waste water treatment, sludge treatment and disposal, and associated administrative and transport emissions divided by the volume of waste water treated.

The GHG intensity figures for treated water and wastewater for the calculations above will be derived from the volumes of water and wastewater as reported in tables 10 and 14 of the Company's AIR24 data.

Assumptions

The Company has assumed that the boundary for data collection is any activity associated with the operation of the appointed business. This will include all areas where the company has direct management responsibility such as the PPP concessions.

Additional Commentary

The Company can provide details of planned future work in carbon accounting, carbon management, mitigation and adaptation. This development is linked to launch of the Climate Change Strategy and Climate Change Action plan.

Omissions

The following areas have been omitted from the AIR24 submission due to inability to source or lack of access to data.

- Supply chain, embedded and 'short cycle' emissions or those from non-appointed business activities have not been included in the return;
- Outsourced activities from call centres and maintenance contractors; and
- The full amount of carbon stored on land.

The GHG emissions associated with the omissions being assessed over 2024/25 and an update will be provided in AIR25.

The GHG omissions above will be addressed in year to enable a fuller return for AIR25 reporting only if deemed in further discussion to have a material impact on the emissions level.

Green Purchased Electricity Adjustment

Green Tariffs are electricity tariffs marketed as having environmental credentials. Defra/BEIS recognise as green those tariffs which comply with the 'Good Quality' Criteria specified on pages 51 and 52 of the 'Defra/DECC's Guidance on How to Measure and Report your GHG Emissions' published in Sept 2009.

The Company has evidence verified by Capture Carbon to support the 156.6 million kWh recorded in CAW 18.0 sourced from 100% renewable electricity generation for the period 01.04.23 to 31.03.24. The renewable electricity generation is verified by Renewable Energy Guarantees of Origin (REGOs) issued by the UK Office of Gas and Electricity Markets (Ofgem).

The additional (and approximate) increase of 30 million kWh additional green source energy provides the bulk of the apparent reduction in GHG intensity (Although reductions in overall grid carbon intensity are contributory)

Table 4 demonstrates the change in Annual operational GHG intensity ratio values as supported by REGO accredited green purchased electricity.

Table 3

Description	Unit	AIR17	AIR18	AIR19	AIR20	AIR21	AIR22	AIR23	AIR 24
Gross Operational Emissions	tonnes CO_2e	160,447	143,491	120,442	112,130	101,957	100,882	95,677	99,487
Green Tariff electricity purchased reduction	tonnes CO_2e	-41,296	-36,396	-29,651	-31,875	-29,095	-31,838	-25,960	-37,517
Net Operational Emissions	tonnes CO_2e	118,778	106,816	90,364	79,328	72,882	68,575	65,537	61,970

Table 4

Description	Unit	AIR17	AIR18	AIR19	AIR20	AIR21	AIR 2022	AIR 2023	AIR 2024
Annual operational emissions intensity ratio per Ml of treated water	tonnes CO_2e/ ML	0.143	0.176	0.139	0.118	0.175	*0.197**	*0.190**	*0.189**
Annual operational emissions intensity ratio per Ml of treated sewage (FFT)	tonnes CO_2e/ ML	0.574	0.611	0.433	0.386	0.501	*0.509**	*0.498**	*0.471**
Annual operational emissions intensity ratio per Ml of treated sewage (DI Input)	tonnes CO_2e/ ML	0.376	0.379	0.287	0.251	0.339	*0.346**	*0.335**	*0.317**

*NB: The same methodology has been applied the same as previous years reporting in AIR23.

Data Quality Assurance Check – Table 45

On completion of the CAW, the applicable values from the homepage are populated in a data checklist. The values in the checklist are populated in the related cells of Table 45. A comparison on the two files is taken to ensure consistency.

The values populated in Table 45 being presented to the regulator are given a final data quality sign off by line management.

Green House Gas (GHG) Reduction

NIW has made strides to reduce GHG emissions from AIR17 reporting year to AIR24 reporting year by increasing its self-supply installations particularly in Solar PV. Also with the inclusion of a Company driven process optimisation project with the main objective to reduce consumption within Wastewater Treatment sites. The historic development of Integrated Constructed Wetlands (ICW) to replace inefficient Wastewater Treatment works and infant forestation projects will continue to mitigate NIW carbon emissions.

The Company has also been able to provide evidence from the 2017/18 reporting year, onward of increasing green accredited power purchase and renewable generation.

AIR24 has seen a relatively static process and fugitive emissions compared to the AIR23 return with a slight increase in emissions in AIR24. There has been an addition of line 15 purchased electricity – Transmission and Distribution, however these emissions were included in AIR23 under line 14 outsourced activities (if not included in Scope 1 or 2) Energy or other. Line 14 now reports on scope 3 emissions not accounted for in company's totals for application of sludge products to others' land and disposal of water and wastewater treatment waste to landfill. Therefore additional emissions have been included in AIR24 that were not included in AIR23.

AIR24 has seen a decrease in gross and net GHG emission compared to 2022/23 reporting year. This has been due to moving from a combined CAW to two separate CAWs, one to account for NIWs emissions and the other PPP emissions. PPP emissions which would have been under outsourced activities (if not included in Scope 1 or 2) Energy and other has be reported in NIW's scope 3 boundary. The decision to separate this was made to ensure there was no double counting of emissions associated when combining both workbook books.

Table 46 – Serviceability

Line 16 - Company's overall serviceability assessment for water infrastructure

Overview

The number of Burst Mains per 1000 km for AIR 24 is 83.60.

The output figure for this serviceability indicator for AIR 24 Line 5, shows that the recent trend has not exceeded 92 bursts per 1000km in the last 5 years (see below)
*The output for this serviceability measure is **"Stable".***

Due to the transition to the IMS methodology in AIR14 for the output for Line 6 – Interruptions to Supply > 3hrs resulting from Equipment failure, an adjustment to the reference level was implemented to improve accuracy.
Since this new methodology has been embedded, the trend rate is looking stable.

The output assessment is supported by the relevant "Customer Contacts "annual trend shown below which is consistently between the upper and lower reference targets on the graph below for many years.

All metrics suggest that the ongoing trends demonstrated above are within their respective upper and lower tolerances or in some cases just below the UR lower limit (usually due to detailed management of issues by the Customer Directorate Team.

The burst rate, (the Primary Indicator), shows evidence of an ongoing stable burst trend

NIW will continue to monitor the trend for this important primary indicator and also review the other indicator trends below.

The overall Serviceability assessment of the Water Infrastructure Network is "Stable"

NORTHERN IRELAND WATER LIMITED - ANNUAL INFORMATION RETURN

ANNUAL INFORMATION RETURN - TABLE 46 SERVICEABILITY
SERVICEABILITY RETURN

	DESCRIPTION	UNITS	DP	1 REPORTING YEAR 2004-05	2 REPORTING YEAR 2005-06	3 REPORTING YEAR 2006-07	4 REPORTING YEAR 2007-08	5 REPORTING YEAR 2008-09	6 REPORTING YEAR 2009-10	7 REPORTING YEAR 2010-11	8 REPORTING YEAR 2011-12	9 REPORTING YEAR 2012-13	10 REPORTING YEAR 2013-14	11 REPORTING YEAR 2014-15	12 REPORTING YEAR 2015-16	13 REPORTING YEAR 2016-17	14 REPORTING YEAR 2017-18	15 REPORTING YEAR 2018-19	16 REPORTING YEAR 2019-20	17 REPORTING YEAR 2020-21	18 REPORTING YEAR 2021-22	19 REPORTING YEAR 2022-23	20 REPORTING YEAR 2023-24	21 REPORTING YEAR 2024-25	22 REPORTING YEAR 2025-26	23 REPORTING YEAR 2026-27
A	**WATER INFRASTRUCTURE**																									
1	Water population	000	2	1,710.06	1,735.00	1,732.85	1,748.53	1,775.11	1,790.16	1,798.48	1,808.82	1,819.47	1,827.79	1,840.54	1,850.27	1,861.58	1,869.17	1,873.14	1,886.30	1,895.87	1,901.28	1,912.09	1,919.12			
2	Total connected properties at year end	000	1		786.1	794.7	800.0	804.4	798.7	806.4	810.4	818.0	825.0	828.1	839.7	852.4	863.0	874.3	883.4	892.9	902.7	910.1	919.2			
3	Total length of mains	km	2		27,114.59	25,972.00	26,067.07	26,349.22	26,435.45	26,441.81	26,499.03	26,700.79	26,710.55	26,712.44	26,728.83	26,778.15	26,837.45	26,958.40	27,002.82	27,014.82	27,086.39	27,140.38	27,215.43			
4	Number of mains bursts (incl Active leakage)	nr	0			5,054	3,611	3,764	3,910	3,634	2,665	2,474	2,299	2,266	1,972	2,135	2,444	2,467	2,211	2,371	2,488	2,496	2,276			
5	Mains bursts per 1000km	nr	1		-	194.6	138.5	142.9	147.9	137.4	100.6	92.7	86.1	84.8	73.8	79.7	91.1	91.5	81.9	87.8	91.9	92.0	83.6			
6	Interruptions to supply greater than 3 hours resulting from equipment failure	nr	0	35,700	24,995	30,360	39,883	36,882	34,268	39,647	44,960	40,697	44,499	70,272	98,979	85,239	94,549	55,414	45,759	24,661	36,835	15,375	14,450			
7	DG3 Properties affected by interruptions >12 hrs (unplanned & unwarned)	nr	0	1,676	1,670	767	1,839	2,010	1,588	4,180	765	1,019	1,195	929	841	494	190	308	751	-	710	-	0			
8	DG3 Percentage properties affected by interruptions >12 hrs (unplanned & unwarned)	%	2	0.22	0.21	0.10	0.23	0.25	0.20	0.52	0.09	0.12	0.14	0.11	0.10	0.06	0.02	0.04	0.09	-	0.08	-	0.00			
9	Number of regulatory samples taken for Iron at customer taps	nr	0	1,962	1,971	1,928	2,012	2,124	2,036	1,736	1,732	1,710	1,876	1,896	1,876	1,868	1,916	1,892	1,984	1,835	2,004	2,004	2,036			
10	Number of regulatory Iron samples exceeding the drinking water standard PCV	nr	0	46	41	45	34	41	43	35	30	47	36	20	30	25	22	20	22	8	13	17	6			
11	Number of regulatory Iron samples exceeding 75% of the drinking water standard PCV	nr	0	108	72	71	64	66	76	55	50	74	62	43	54	45	48	28	39	14	22	26	17			
12	Percentage of regulatory Iron samples exceeding 75% of the drinking water standard PCV	%	2	5.50	3.65	3.68	3.18	3.11	3.73	3.17	2.89	4.33	3.30	2.27	2.88	2.41	2.51	1.48	1.97	0.76	1.10	1.30	0.83			
13	Customer contacts (Discoloured water)	nr	0					4,085	3,840	3,010	2,344	2,464	3,465	2,744	3,179	3,029	2,632	3,447	2,257	2,807	3,220	3,741	2,460			
14	Customer contacts per 1000 population (Discoloured water)	nr	2				-	2.30	2.15	1.67	1.30	1.35	1.90	1.49	1.72	1.63	1.41	1.84	1.20	1.48	1.69	1.96	1.28			
15	Distribution losses	Ml/d	2	141.90	127.76	118.74	111.38	131.49	140.55	130.66	122.02	115.44	127.31	126.08	122.08	123.52	125.44	120.23	120.62	117.80	117.13	123.79	118.08			
16	Company's overall serviceability assessment for water infrastructure	Text	N/A								Stable	Stable	Stable	Stable	Stable	Stable	Stable	Stable	Stable	Stable	Stable	Stable	Stable			
B	**WATER NON-INFRASTRUCTURE**																									
17	Number of regulatory samples taken for Turbidity at operational WTWs (excluding PPP)	nr	0					5,275	5,252	5,139	4,948	4,810	4,795	4,642	4,523	4,561	4,421	4,584	4,427	4,584	4,427	4,619	6,294			
18	Number of regulatory samples taken for Turbidity at operational WTWs which exceed 1.0 NTU (excluding PPP)	nr	0					10	14	16	17	11	14	10	3	6	10	4	6	4	2	3	4			
19	Number of regulatory samples taken for Turbidity at operational WTWs which exceed 0.8 NTU (excluding PPP)	nr	0	135	158	79	30	15	27	23	23	16	29	21	19	12	18	12	12	8	6	5	8			
20	Percentage of regulatory samples taken for Turbidity at operational WTWs which exceed 0.8 NTU (excluding PPP)	%	2					0.28	0.51	0.45	0.46	0.33	0.60	0.45	0.42	0.26	0.41	0.26	0.27	0.17	0.14	0.11	0.13			
21	Number of regulatory samples taken for THMs at customer taps	nr	0	1,057	952	704	752	765	784	432	408	392	396	391	388	392	396	388	400	400	432	429	464			
22	Number of regulatory THM samples exceeding the drinking water standard PCV	nr	0	358	239	150	243	141	30	8	3	10	6	4	1	12	6	2	4	-	4	5	10			
23	Number of regulatory THM samples exceeding 75% of the drinking water standard PCV	nr	0	578	439	280	441	289	57	32	21	52	31	34	44	53	44	29	27	18	46	47	86			
24	Percentage of regulatory THM samples exceeding 75% of the drinking water standard PCV	%	2	54.68	46.11	39.77	58.64	37.78	7.27	7.41	5.15	13.27	7.83	8.70	11.34	13.52	11.11	7.47	6.75	4.50	10.65	10.96	18.53			
25	Events at WTW resulting from treatment difficulties or ineffective treatment categorised as 'significant' or higher	nr	0				14	27	28	12	28	26	15	23	24	15	12	18	17	16	15	19	10			
26	Number of regulatory samples taken at Service Reservoirs for coliform bacteria	nr	0	18,258	18,232	17,914	17,581	17,408	17,429	16,966	16,862	16,690	16,118	15,640	15,433	15,213	14,897	14,921	14,923	15,025	15,127	14,996	14,795			
27	Number of regulatory samples taken for coliform bacteria at Service Reservoirs exceeding the drinking water standard PCV	nr	0	59	86	68	43	22	24	8	22	27	26	17	20	15	14	8	13	13	16	17	11			
28	Percentage of regulatory samples taken for coliform bacteria at Service Reservoirs exceeding the drinking water standard PCV	%	2	0.32	0.47	0.38	0.24	0.13	0.14	0.05	0.13	0.16	0.16	0.11	0.13	0.10	0.09	0.05	0.09	0.09	0.11	0.11	0.07			
29	Unplanned (reactive) maintenance	%	1										3.6	2.6	1.7	1.0	1.5	1.2	1.1	1.0	0.8	0.7	0.8			
30	Company's overall serviceability assessment for water non-infrastructure	Text	N/A								Stable	Stable	Stable	Stable	Stable	Stable	Stable	Stable	Stable	Stable	Stable	Stable	Stable			
C	**SEWERAGE INFRASTRUCTURE**																									
31	Total length of sewers	km	2		13,911.23	14,263.62	14,319.50	14,465.23	14,745.61	14,904.68	15,090.35	15,254.37	15,410.44	15,581.51	15,625.13	15,777.29	15,890.63	16,009.10	16,163.23	16,301.61	16,362.76	16,480.46	16,610.98			
32	Total number of rising main failures	nr	0					25	25	37	26	41	16	11	9	5	12	20	5	5	15	25	26			
33	Total number of gravity sewer collapses	nr	0					1,368	988	1,229	1,191	1,081	1,104	1,325	1,218	1,243	1,192	1,221	1,245	1,305	1,211	1,252	1,368			
34	Total number of sewer collapses	nr	0				677	1,393	1,013	1,266	1,217	1,122	1,120	1,336	1,227	1,248	1,204	1,241	1,250	1,310	1,226	1,277	1,394			
35	Sewer collapses per 1,000km	nr	1			-	47.3	96.3	68.7	84.9	80.6	73.6	72.7	85.7	78.5	79.1	75.8	77.5	77.3	80.4	74.9	77.5	83.9			
36	Total number of sewer blockages	nr	0				16,912	28,010	26,409	26,230	24,444	20,801	18,062	16,729	15,991	15,755	14,393	15,815	17,593	14,417	12,245	11,458	10,579			
37	Sewer blockages per 1,000km	nr	1			-	1,181.0	1,936.4	1,791.0	1,759.8	1,619.8	1,363.6	1,172.1	1,073.6	1,023.4	998.6	905.8	987.9	1,088.5	884.4	748.3	695.2	636.9			
38	Number of H, M pollution incidents from sewer network (CSOs, rising mains and foul sewers)	nr	0						38	34	30	14	14	17	11	15	13	12	7	4	8	5	5			
39	Number of H, M and L pollution incidents from sewer network (CSOs, rising mains and foul sewers)	nr	0						244	221	199	137	149	126	86	102	96	97	72	83	78	75	58			
40	Properties flooded in the year (other causes)	nr	0				366	23	5	28	23	41	55	52	38	47	33	23	24	16	30	29	36			
41	Areas flooded externally in the year (other causes)	nr	0				4,283	7,968	6,872	1,314	Not reported	3,212	3,348	4,379	3,880	3,819	3,466	4,273	4,515	3,479	2,793	2,710	2,488			
42	Total number of equipment failures repaired	nr	0				11,715	10,965	10,882	11,492	11,476	10,333	10,896	11,245	9,986	9,883	9,262	7,238	6,879	6,690	6,034	6,052	6,569			
43	Number of pumping station emergency overflows triggered by equipment failure	nr	0								21	18	22	15	8	9	5	6	5	2	2	3	3			
44	Number of sewer repairs	nr	0						1,013	1,266	1,217	1,122	1,120	1,336	1,227	1,248	1,204	1,241	1,250	1,310	1,226	1,277	1,394			
45	Company's overall serviceability assessment for sewerage infrastructure	Text	N/A								Stable	Stable	Stable	Stable	Stable	Stable	Stable	Stable	Stable	Stable	Stable	Stable	Stable			
D	**SEWERAGE NON-INFRASTRUCTURE**																									
46	% WwTW discharges not compliant with numeric consents	%	1	20.0	18.0	16.0	16.0	12.0	12.0	11.7	6.9	6.9	8.2	7.8	7.4	6.6	6.6	5.3	5.3	4.8	6.4	6.4	6.4			
47	% of total p.e. served by WwTWs not compliant with numeric consents excluding upper tier failures	%	2	37.00	33.20	23.10	15.50	9.80	8.60	5.08	4.80	1.68	2.40	1.85	1.71	1.31	1.60	0.71	0.59	0.59	0.90	0.97	0.93			
48	Number of BOD, SS and Ammonia sample results recorded for compliance reporting at WwTWs with numeric consents	nr	0	11,234	11,251	11,461	11,524	9,088	8,747	8,585	8,863	9,161	8,938	8,528	8,738	7,027	7,369	7,011	6,970	6,320	7,941	8,162	8,131			
49	Number of BOD, SS and Ammonia compliance sample results which exceeded their numeric consent value	nr	0	652	817	444	297	363	333	361	279	302	370	299	276	283	290	157	164	109	173	164	122			
50	Percentage of BOD, SS and Ammonia compliance sample results which exceeded their numeric consent value	%	2	5.80	7.26	3.87	2.58	3.99	3.81	4.21	3.15	3.30	4.14	3.51	3.16	4.03	3.94	2.24	2.35	1.72	2.18	2.01	1.50			
51	Number of WwTWs with one or more compliance sample result (BOD, SS or Ammonia) exceeding the numeric consent value	nr	0	104	132	115	99	103	98	102	91	76	87	60	55	44	51	42	39	36	49	51	52			
52	Small WwTW compliance (works greater than or equal to 20p.e. but less than 250p.e.)	%	2										72.64	76.87	80.72	83.99	87.21	86.64	89.29	90.91	92.01	92.65	92.70			
53	Unplanned (reactive) maintenance	%	1										5.5	3.6	2.2	2.4	1.8	1.5	2.1	2.2	1.9	1.8	1.9			
54	Company's overall serviceability assessment for sewerage non-infrastructure	Text	N/A								Stable	Stable	Stable	Stable	Stable	Stable	Stable	Stable	Stable	Stable	Stable	Stable	Stable			

Summary Table

Serviceability Indicator	Line	Current Trend in Relation to Control Parameters	Output
No. of Bursts per 1000km	Line 5	The overall trend in PC21 onwards, with the trend fluctuating around the UR Median Reference line of 84.56 bursts per 1000km for the last 8 years This assessment suggests that burst rates have dropped significantly since AIR10 with six consecutive previous year-on-year improvements between AIR10 and AIR16 and then levelling out in subsequent years. **This Serviceability Indicator is considered as Stable**	**Stable**
Interruptions to Supply > 3hrs resulting from equipment failure	Line 6	Only the AIR 18 and AIR 22 outturns did not conform to an improving trend since the better automated data capture systems were introduced. The conclusion is that NI Water's performance against this measure remains '**Stable**' as the last 4 years figures have reached a point fluctuating below the lower UR Reference line on the graph below **This Serviceability Indicator is considered as Stable**	**Stable**
DG3 % of Properties Interrupted supply > 12 hrs	Line 8	The conclusion is that, although the annual outturn for Table 46: Line 8: DG3 Percentage properties affected by interruptions >12 hrs (unplanned & unwarned), continues to be stable at a very low level , the ongoing perceived improvement of previous years may be more likely to be attributed to the impact of NI Water's **ITS Strategy** than asset performance. **This output is therefore considered to be Stable**	**Stable**

Serviceability Indicator	Line	Current Trend in Relation to Control Parameters	Output
% of iron Samples Exceeding 75% of PCV	Line 12	The AIR 23 figure is calculated from Line 11 divided by Line 9 = 0.83% The current failure rate is relatively low, with the ongoing trend fluctuating between the UR Reference limit and the lower limit for the last 5 years. This figure is related to a random sampling regime. Taking these factors into account, this therefore indicates that this measure indicates a **Stable** trend as the random sampling regime can skew the trend slightly from one year to the next.	**Stable**
Number of Customer Contacts per 1000 population (Discoloured Water)	Line 14	This output suggests that this trend is Stable, as the graph remains within the upper and lower limits of the target envelope	Stable
Water Distribution Losses	Line 15	Explanatory factor. See below. The output figure for AIR 24 is 118.08Ml/day This figure is comparable to the output figures since the start of PC15 (See graph)	Explanatory factor
Overall Rating		**Final Explanatory Text**	**Stable**

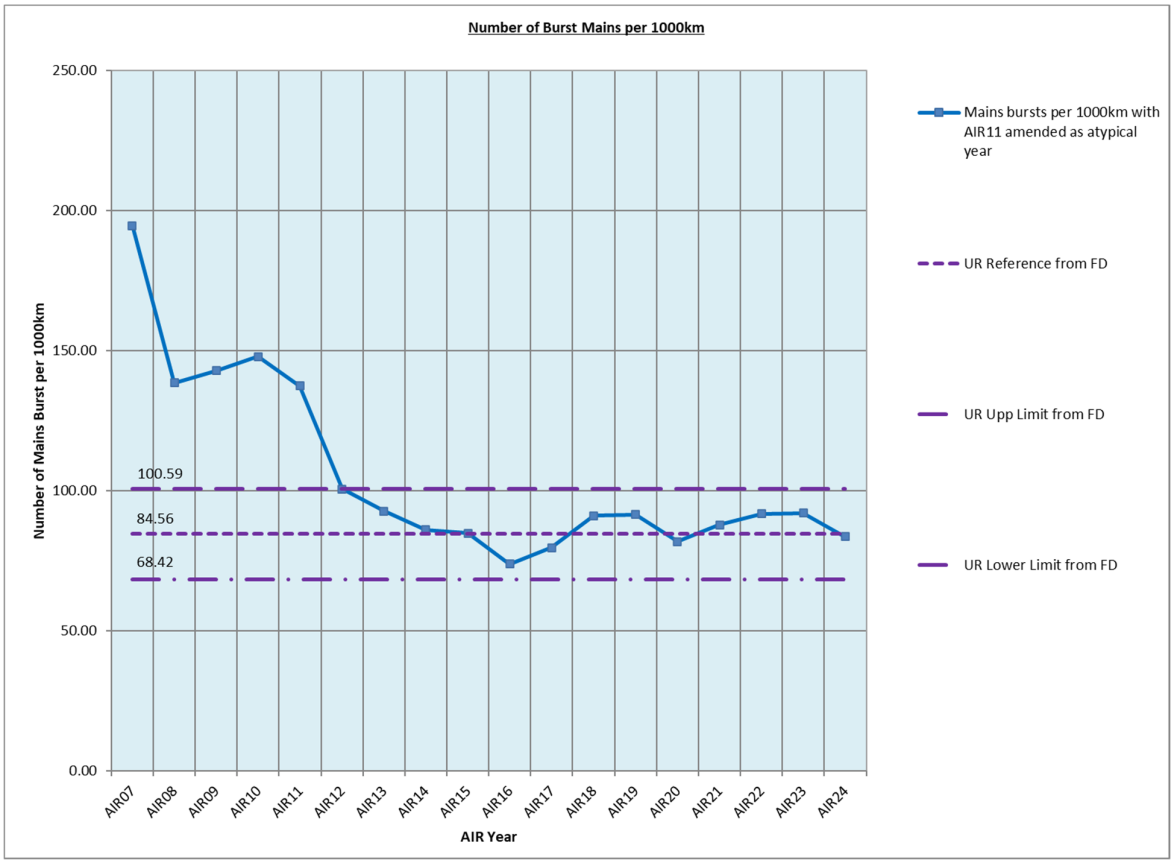
Primary Indicator

Line 5 – Number of Burst Mains per 1,000km

Total Burst Mains is calculated by dividing the total number of bursts (minus rechargeables) by the total length of mains (in km) multiplied by 1,000.

The number of Burst Mains per 1000 km was 81.88 for AIR20.
The number of Burst Mains per 1000 km was 87.80 for AIR21.
The number of Burst Mains per 1000 km was 91.80 for AIR22.
The number of Burst Mains per 1000 km was 92.00 for AIR23.

The number of Burst Mains per 1000km is 83.60 for AIR24.



AIR 24 TABLE

Burst Numbers Summary Table	AIR19	AIR20	AIR21	AIR22	AIR23	AIR24	Percentage changes	
							AIR22 to AIR23	AIR23 to AIR24
CSD Networks Water (non-proactive detection)	1451	1186	1268	1353	1371	1063	1.3%	-22.5%
CSD Networks Water (proactive detection)	1111	1051	1132	1145	1142	1225	-0.3%	7.3%
Third party damage	95	26	29	10	17	12	70.0%	-29.4%
Total	2467	2211	2371	2488	2496	2276	0.3%	-8.8%
Burst rate per 1000km	91.5	81.9	87.8	91.8	92	83.6	0.2%	-9.1%

This assessment suggests that burst rates have dropped significantly since AIR10 with six consecutive previous year-on-year improvements between AIR10 and AIR16 and then levelling out in subsequent years. The number of burst mains per 1000km consistently fluctuated around the median UR reference line as seen on the attached graph since AIR 15.

In the three years of PC21 this trend has continued near the median UR reference line, in the trend graph. The number of bursts for Networks Water has been captured for the complete year using base information monthly from MWM reporting systems. In conjunction with burst flag reports, taken from the CAR2Map database, individual Work Orders have been analysed and duplicates and non-mains repairs extracted. This year's burst rate figure has dropped since the AIR 23 figure and is lower than the average figure for the last five-year reporting period (AIR19 to AIR23) i.e., 89.0. However, annual fluctuations are to be

expected in a distribution network, for example due to prolonged hot cold weather. NI Water will continue to monitor any perceived upward trend.

The following comments continue to be positive factors in relation to burst main repair numbers:

Issues contributing to this Stable trend are that:

- Mains rehabilitation schemes continue to have a positive impact in reducing the no. of defects with older iron mains being replaced.
- Pressure Management Schemes in targeted areas include new installations, replacements and relocations of pressure reducing / sustaining valves.
- Continuing detail has been paid to the classification of mains repairs as opposed to communication pipe repairs or replacements.
- Calm Network procedures are employed by all those who interact with the Network.

The number of mains repairs due to non-proactive reported bursts has dropped this year, whereas number of mains repairs due to proactive leakage detection, has increased slightly since the AIR 23 reporting period. The drop in non-leakage reported burst mains repairs will primarily be down to there being no prolonged cold spells in this reporting period, unlike the AIR 23 reporting period, which had prolonged cold spells throughout December and January in particular.

The number of mains repairs due to proactive leakage detection methods has increased slightly in comparison with the last five years' average figure from AIR 19 onwards (1116 no.), however the change is negligible and there has been continued emphasis on proactive leakage detection by 'In House' Crews.

There has been a slight decrease in the number of repairs attributable to Third Party Damage (12 no.), compared the 2023 figure, which was 17, but the figures are comparable to the figures for the previous five years. The reasons that the figure for these remain quite low are unclear and are difficult for NI Water to manage as the figure is dependent on both contractors admitting liability and front-line operatives initiating the re-chargeable process.

This Serviceability Indicator is considered as Stable.

The overall trend from PC15 onwards shows a trend with the outputs consistently stabilising around the median limit on the graph. (See graph above)

Secondary Indicators

Line 6 – Interruptions to Supply > 3hrs resulting from Equipment failure

This year's outturn of 14.450 properties affected by an interruption to supply greater than 3 hours resulting from equipment failure is the lowest since regulatory reporting commenced in 2007/08.

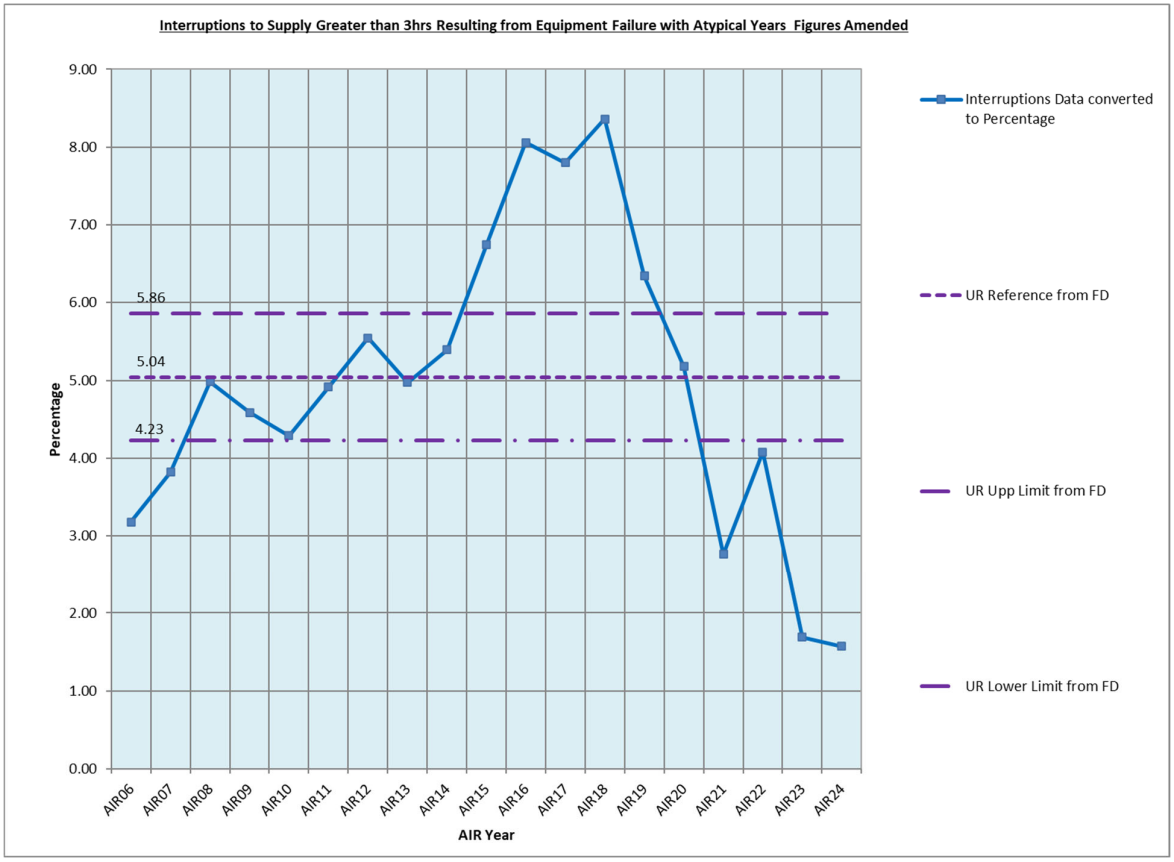
Previous outturns have been higher for a variety of reasons. Some outturns have been higher because of extreme or atypical events such as freeze/thaws and industrial action. i.e. The AIR22 outturn was higher because of a burst on a pumped trunk main, close to Dunore Water Treatment Works which caused 13,482 properties to experience an unplanned interruption of more than 3 hours.

This Year, a valve closed off in error at Westland Service Reservoir in August 2023, caused 4,773 properties to experience an unplanned interruption of more than 3 hours.

The historical outturns were also affected by an over-reporting issue but the introduction of a detailed review process has resolved this and is resulting in some interruption events being assigned now to lower time bands than they would have in the past.

Some interruptions can now be prevented through a change in working practices and the way in which bursts and other, less common causes of interruption are managed. New initiatives introduced under NI Water's ITS Strategy are helping to reduce the overall number of interruptions and when an interruption is still inevitable, for example, when bursts occur in single supply zones with rezoning limitations, these initiatives are helping to reduce the average duration of interruption and average number of affected properties per event. As a result of these changes, DG3 performance is improving and customers are benefitting by experiencing less inconvenience and disruption to their supply.

Line 6 -Interruptions to Supply > 3hrs



The following table lists the outturn numbers of properties with outages >3 hours resulting from equipment failure for the last 6 years. During this time, the methodology was updated to include a detailed review process.

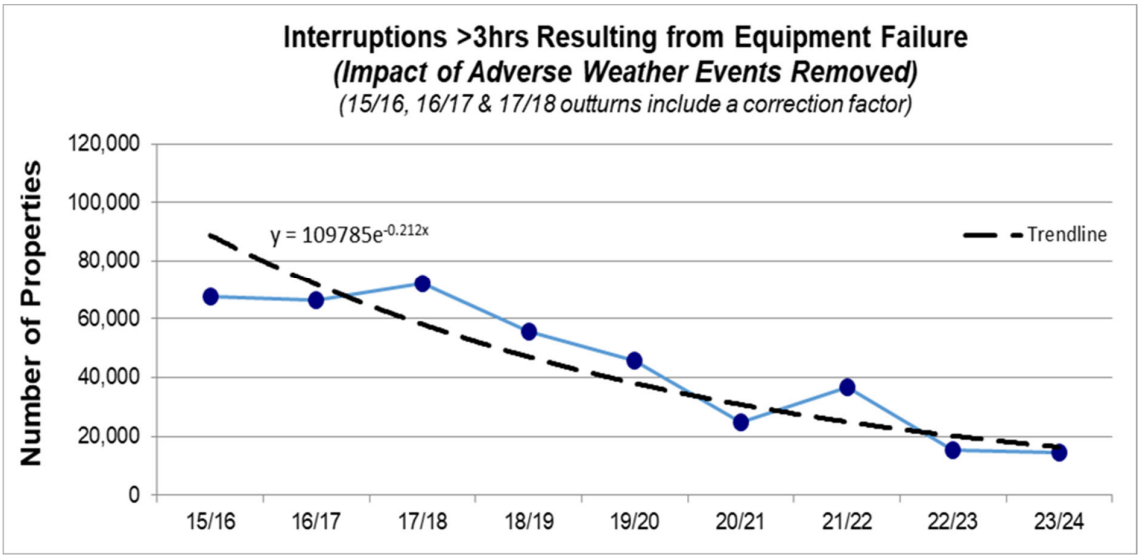
	Properties with Outages >3 Hours	Connected Properties	Percentage Outturn
AIR19	55,414	874,307	6.34%
AIR20	45,759	883,423	5.18%
AIR21	24,661	892,910	2.76%
AIR22	36,835 (inc. Dunore)	902,692	4.08%
	23,373 (exc. Dunore)	902,692	2.59%
AIR23	15,375	910,098	1.69%
AIR24	14,450 *(including. Westland SR)*	919,190	*1.57%*
	9,677 (exc. Westland SR)	919,190	1.05%

Discussion on the Impact on the Trend Line of the Implementation of the IMS System

The NIW consensus is that the apparent improvement from AIR15 to AIR18 is due in part to the introduction of IMS in July 2014 when, until March 2018, the absence of a detailed review process for unplanned interruption events lasting between 3 hours and 6 hours resulted in the over-reporting of affected property numbers associated with some historical interruption events.

From April 2018, events involving more than 500 properties were reviewed in detail, from April 2020 to March 2021, events involving more than 100 were reviewed in detail and from April 2021 onwards, every event lasting more than 3 hours has been reviewed in detail because of the impact that they have on the lost minutes outturn.

As the introduction of a review process has improved the accuracy of outturns, the Company has applied a correction factor of -61.113% to the 15/16 to 17/18 outturns in the graph below to restore data consistency and reveal the serviceability trend.



Accuracy Validation

The following table lists the unadjusted annual actual outturn numbers of unplanned interruption **events** lasting more than 3 hours, more than 6 hours and more than 12 hours from 2015/16 to 2023/2024.

	15/16	16/17	17/18	18/19	19/20	20/21	21/22	22/23	23/24
>3 hours	781	779	803	654	591	476	358	286	213
>6 hours	119	95	81	75	63	26	35	34	48
>12 hours	17	12	9	4	4	0	1	0	0

This table further suggests stability in the network for the > 3hours category.

Conclusion

Even with the impact of the Westland SR accidental valve closure issue (August 2023) included from the AIR24 outturn (an increase of 5,698nr properties or 37% of the total) ,indicates that the average duration of unplanned interruption has reduced each year for the last 3 years, with more interruptions now lasting 3 hours or less and fewer properties contributing to the regulatory return as a result.

AIR23 Table 46 Line 6 outturn = 15,375

AIR24 Table 46 Line 6 outturn = 14,450
(Properties affected by Westland SR = 4,773)

(The 2023/24 outturn excluding Westland SR would be
= 14,450 - 4,773 = 9,677
Reduction = 15,375 - 9,677 = 5,698 a 37%reduction)

The above reduction has been achieved through changes in the way that bursts are managed. Whenever possible, NI Water will use rezoning techniques to keep its customers in supply. This means that for many customers, the impact from a burst will be minimal. However, NI Water has a large rural network and rezoning opportunities are sometimes limited. When rezoning isn't an option, the Company now uses Mobile Booster Trailers to keep customers in supply and to greatly reduce the amount of time that customers are out of supply. The trailers can be taken to the location of bursts and are used to maintain water pressures while repairs are being carried out.

NI Water's **ITS Strategy** is focussed on improving DG3 performance and reducing the Average Minutes of Lost Supply per Connected Property. As part of the work being undertaken, the Company has engaged with other companies with a similar population size and dispersal to develop a better understanding of the technologies and techniques employed to deal with bursts and has invested in these areas.

The Company also continues to invest in the proactive rehabilitation of its water main infrastructure, reducing the likelihood of bursts occurring on older parts of the network and in areas where issues have arisen in the past. Key elements of the ITS Strategy are summarised below.

- **Capital Investment in Watermains**
- **Post-Interruption Reviews (PIRs)**
- **Working Differently**
- **SMART Network**
- **CALM Network**

NI Water now has a designated Alternative Water Supplies team responsible for maintaining supply to customers during major incidents. AWS includes the management of tankering operations and in more extreme cases, the deployment of static tanks and the distribution of bottled water. By tankering directly into service reservoirs where levels are falling, depletion issues can be avoided and customers continue to receive water from their taps. Having a designated AWS team enables water supply and distribution staff to remain focussed on their normal task of restoring supply to the network.

Recent incidents such as the Dunore pumping main burst and Westland SR valve-closed issue, reconfirm the sensitivity of this performance measure to infrequent, one-off events involving large numbers of properties, the impact of which is similar to multiple events involving fewer properties and which should not be interpreted as a sign of worsening serviceability.

There is no evidence in either the OMIS or IMS datasets (excluding atypical factors) to suggest that serviceability has been 'marginal' or 'deteriorating'. An assessment of asset performance based on the OMIS dataset confirms that serviceability was '**stable**' during the 7-year period from 2007/08 to 2013/14.

An assessment of asset performance based on the IMS dataset and with a correction factor applied to account for historical instances of over-reporting, confirms that serviceability has been '**improving**' during the 9-year period from 2015/16 to 2023/24. This is believed to be the result of an improved operational focus on work practices as opposed to an improvement in asset serviceability.

Although the trendline for this serviceability measure indicates an overall improving trend, there have been years, including 2021/22, when the outturn did not conform to an improving trend. Taking this into account, the conclusion is that NI Water's performance for this measure remains '**Stable**'.

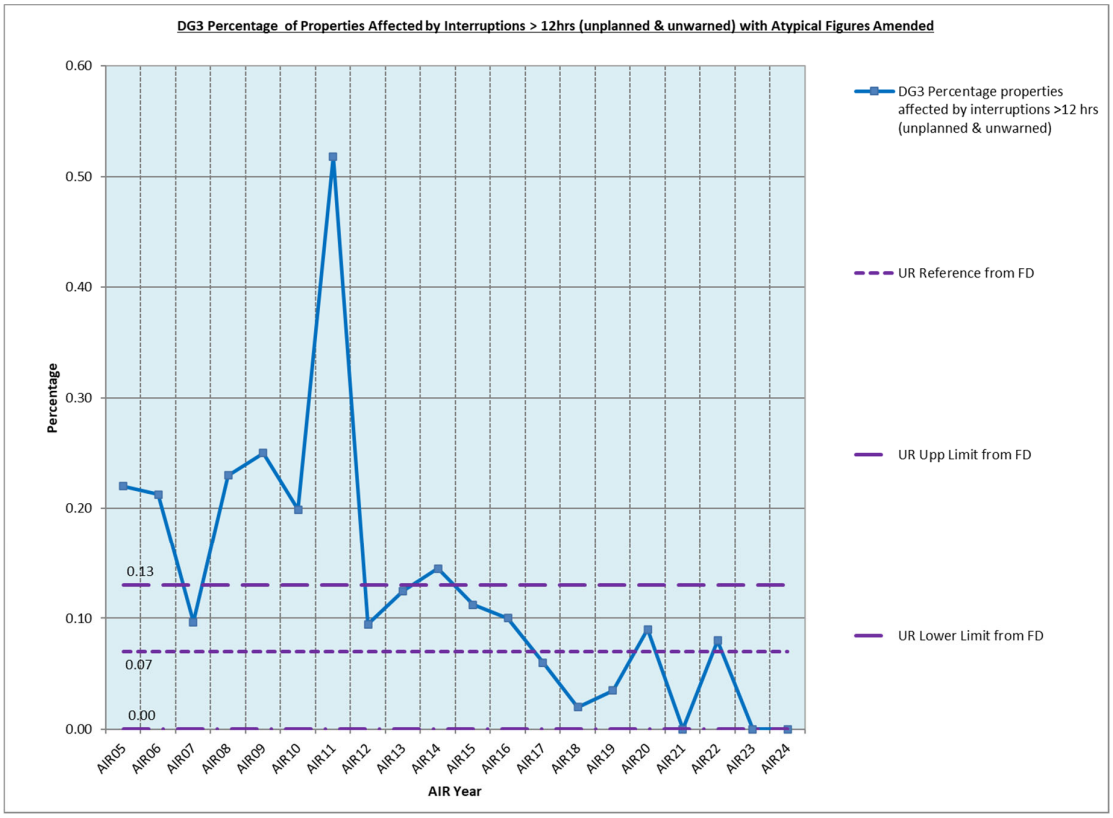
Line 8 – Percentage of Properties Affected by Interruptions > 12hrs

This year's outturn of zero **DG3 properties affected by an unplanned and unwarned interruption greater than 12 hours** was similar to the AIR21 and AIR23 outturns when no properties experienced such an interruption.

During 2022/23, there was a summer high demand event followed by a winter freeze/thaw event but the numbers of properties affected by these events was minimal This was mainly due to the large amount of forward planning and a general expectancy, based on previous experience.
N I Water has improved its ability to respond to such seasonal pressures on the network by investing time and resources in preparation for a worst-case scenario.

There were no comparable high demand incidents in this reporting period

Line 8 – Percentage of Properties Affected by Interruptions > 12hrs



The following table lists the percentage outturn numbers of properties with outages >12 hours for the last 7 years.

	Properties with Outages >12 Hours	Connected Properties	Percentage Outturn
AIR18	190	862,988	0.02%
AIR19	308	874,307	0.04%
AIR20	751	883,423	0.09%
AIR21	0	892,910	0.00%
AIR22	710	902,692	0.08%
AIR23	0	910,098	0.00%
AIR24	0	919,190	0.00%

Table Summary of equipment failures 2007/08-2022/23

Summary of unplanned property outage outturns >12hrs **excluding** the impact of adverse weather events, industrial action, the Head Road, Kilkeel incident **and** interruptions where the cause was unrelated to equipment failure.

	07/08	08/09	09/10	10/11	11/12	12/13	13/14	14/15
Outturn	1,655	1,358	*1,563*[1]	*697*[2]	663	*1,017*[3]	1,105	*928*[4]

	15/16	16/17	17/18	18/19	19/20	20/21	21/22	22/23	23/24
Outturn	839	344	*190*[5]	308	751	0	710	0	0

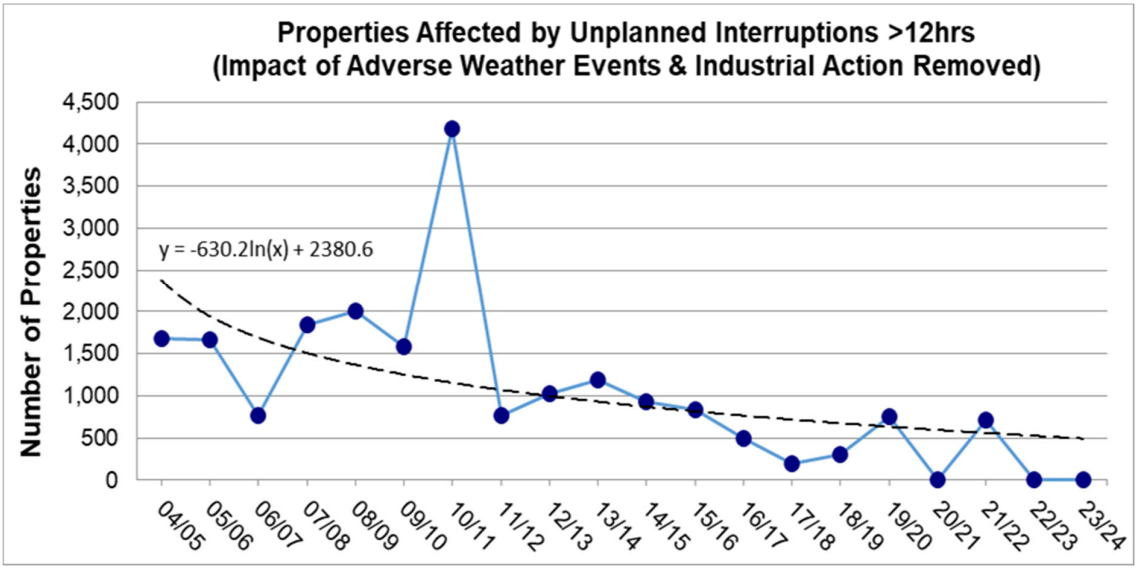
Note 1: Freeze/Thaw Event from 24 December 2009 to 21 January 2010
Note 2: Freeze/Thaw Events from 8 Dec 2010 to 12 Dec 2010 & 21 Dec 2010 to 6 Jan 2011; Head Road, Kilkeel incident
Note 3: Adverse Weather Event from 22 to 27 March 2013
Note 4: Industrial Action from 22 December 2014 to 21 January 2015
Note 5: Severe Flooding Event – 22 August 2017

These figures are considered a very accurate output for each year, as they have been arrived at by a thorough examination of individual incidents on a one-by-one basis by NIW staff.

The conclusion is that, although the annual outturn for Table 46: Line 8: DG3 Percentage properties affected by interruptions >12 hrs (unplanned & unwarned), continues to be stable, the ongoing perceived improvement of previous years may be more likely to be attributed to the impact of NI Water's **ITS Strategy** than asset performance.

Note: Although there were no extreme or atypical weather events in 2019/20, the outturn of **751** (above**)** was higher than the previous three outturns because of the severity of two of the four interruption events making up the figure, as summarised in the following table. The figures are however within the acceptable envelope in this period.

Note: In the 2019/20 period, the Tullywhisker and Craigstown events each had a greater number of affected properties than the Company's >12hr in-month target of 108. The Tullywhisker outage was not caused by pipeline deterioration but due to a local ground slippage.



The performance graph above, indicates an overall improving trend, despite there having been both year-on-year increases and decreases in the annual outturns. However, the perceived improvement in performance is more likely to be attributed to an increased operational focus on work practices than an improvement in asset serviceability. As the purpose of this measure is to assess whether asset serviceability in the Water Infrastructure service area is improving, stable, marginal or deteriorating, NI Water's overall assessment for this measure continues to be one of '**stable**' performance.

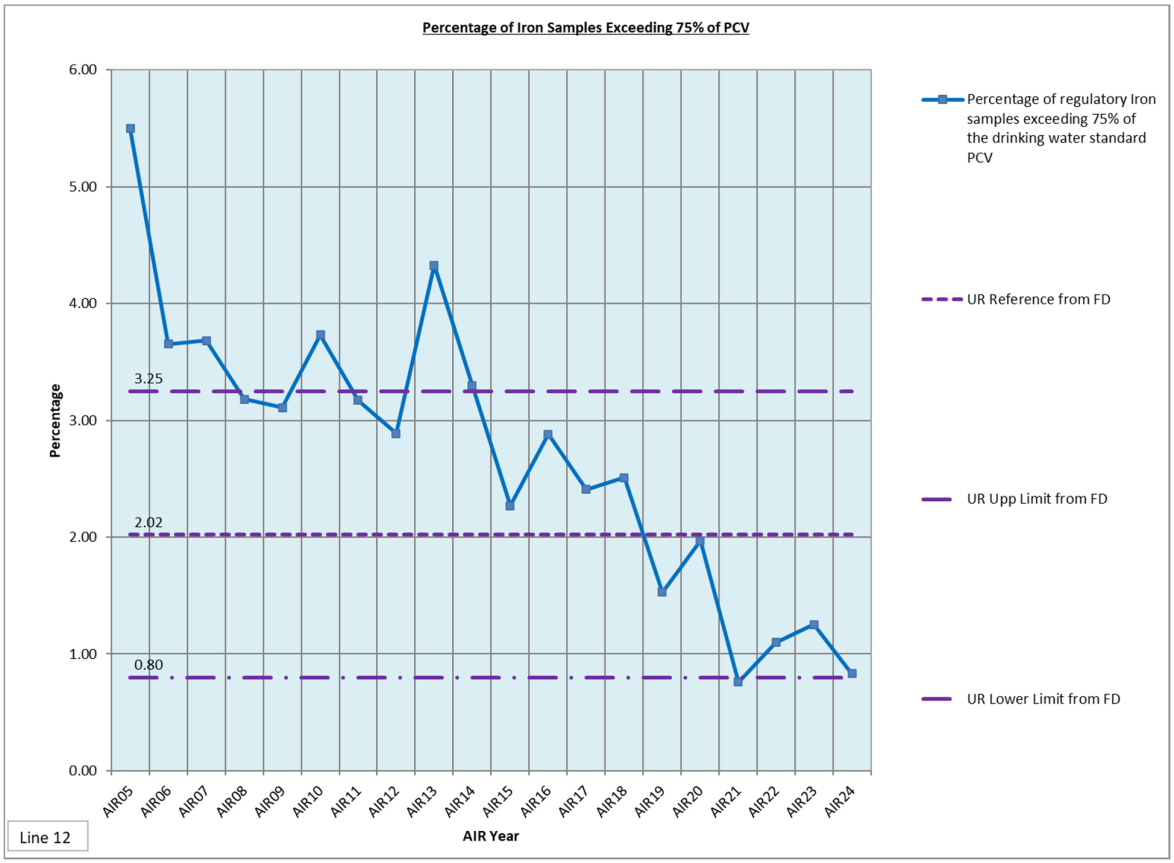
To date, the impact of initiatives targeted towards improving performance has been greatest on the 'more than 12-hour' time band as the main focus has been on those interruptions that last the longest and which therefore have the greatest potential to inconvenience customers. The Company has a Post-Interruption Review (PIR) process, the aim of which is to establish learning points from ITS events, including unplanned interruption events lasting more than 12 hours. The Company is using new systems such as network modelling to assist with PIRs and has developed a Pressure Mapper App. Completion of a Service Failure Analysis (SFA) report is now required for interruptions to >500 properties for >3hrs.

The reports will be used to help NI Water understand the wider range of root causes affecting performance and prevent repeat interruption occurrences, whilst IMS integration will facilitate the analysis process.

The conclusion is that although the annual outturn for Table 46: Line 8: **DG3 Percentage properties affected by interruptions >12 hrs (unplanned & unwarned)** is still near the lowest threshold target, the ongoing improvement of the last couple of years may be more likely to be attributed to an improved operational focus on work practices than asset performance.

The performance for this Serviceability measure is "Stable".

Line 12 – Percentage of Iron Samples Exceeding 75% of PCV



The AIR 23 figure is calculated from Line 11 divided by Line 9 = 26/2003 = 1.30%

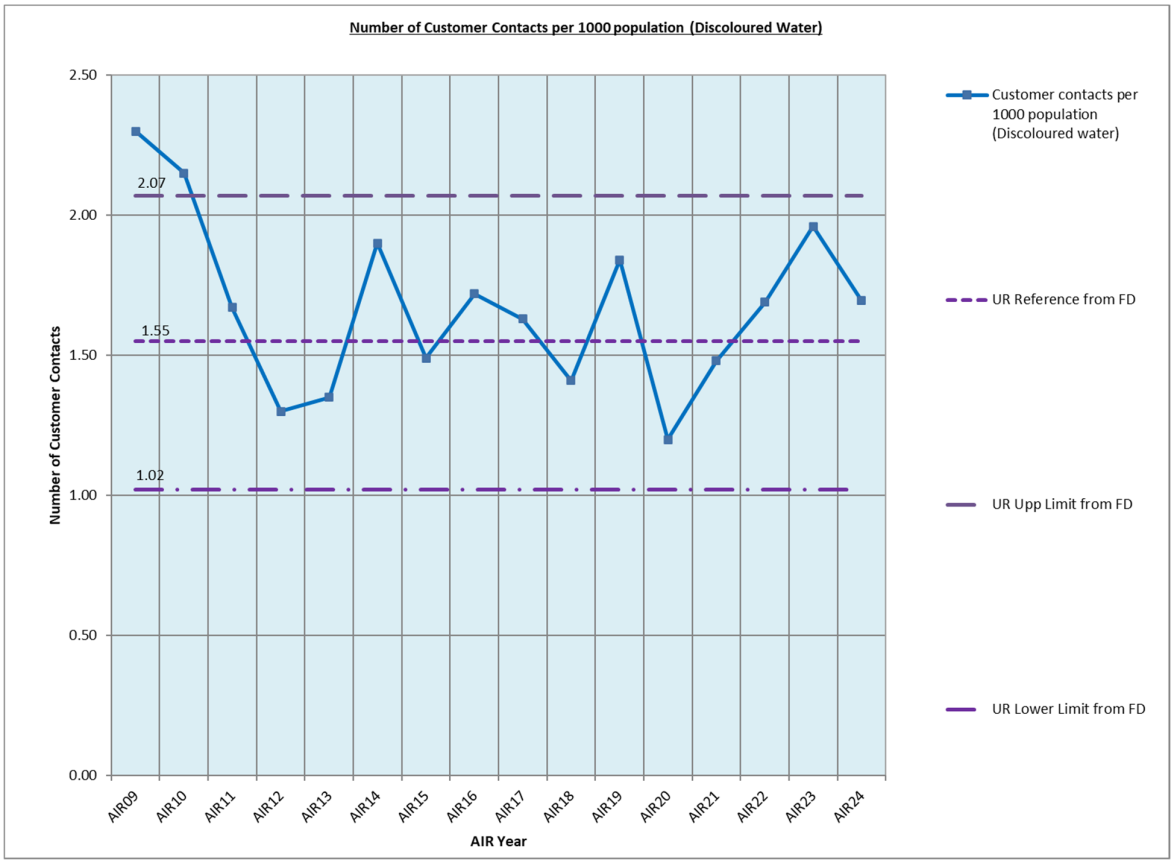
The AIR 24 Line 17/2036 = 0.83%

The current failure rate is relatively low, with the ongoing trend fluctuating between the UR Reference limit and the lower limit (see above) for the last 6 years.

This figure is related to a random sampling regime.

Taking these factors into account, this therefore indicates that this measure indicates a **Stable** trend as the random sampling regime can skew the trend slightly from one year to the next.

Line 14 –Customer Contacts per 1000 population (Discoloured Water)



The Company has arrived at a 'Stable' assessment for this measure.

The Population figure utilised here is 1,912,120.
The output figure is therefore for AIR24 = 3,254 relevant contacts/1,912,120 = 1.70

(For AIR23, NI Water recorded 3,741 relevant contacts to be divided by a population figure of 1,912,090 which was = 1.96)

This output suggests that this trend is Stable, as the graph remains within the upper and lower limits of the target envelope

Summary
The trend has remains between the UR upper and lower reference level
NI Water will monitor any perceived trends
This measure is considered to be **Stable**

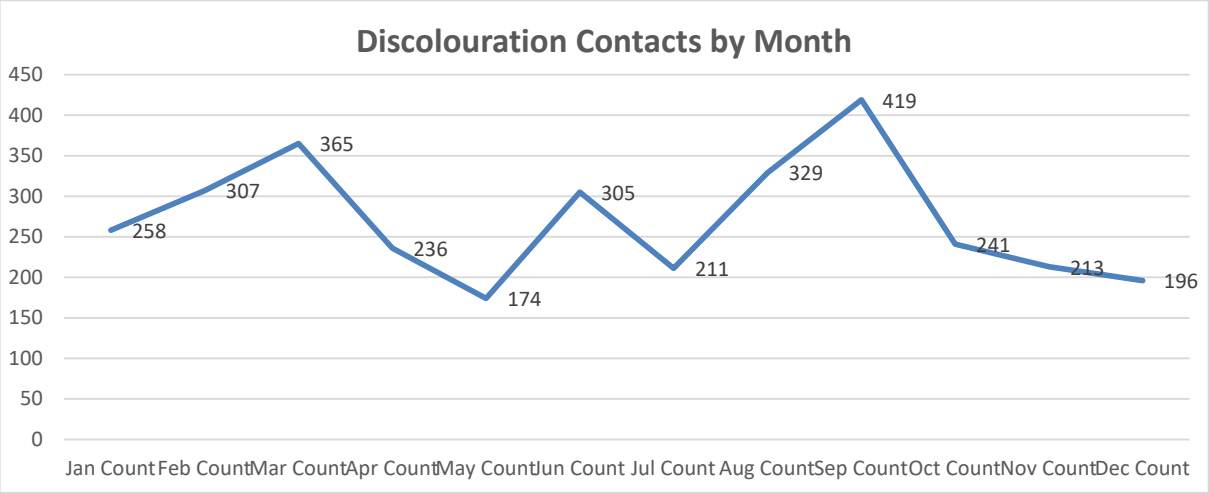
See the actual contact numbers in the table below during this period.

	AIR 17	AIR 18	AIR 19	AIR 20	AIR 21	AIR 22	AIR 23	AIR 24
Average Monthly Number of Calls on This Issue	252	219	287	188	234	268	312	271
Total Customer Contacts on Water Network for Discolouration Issues	3029	2632	3447	2257	2807	3220	3741	3254

Total Calls Logged Per Calendar Month in 2023 (For AIR 24 Reporting Period)

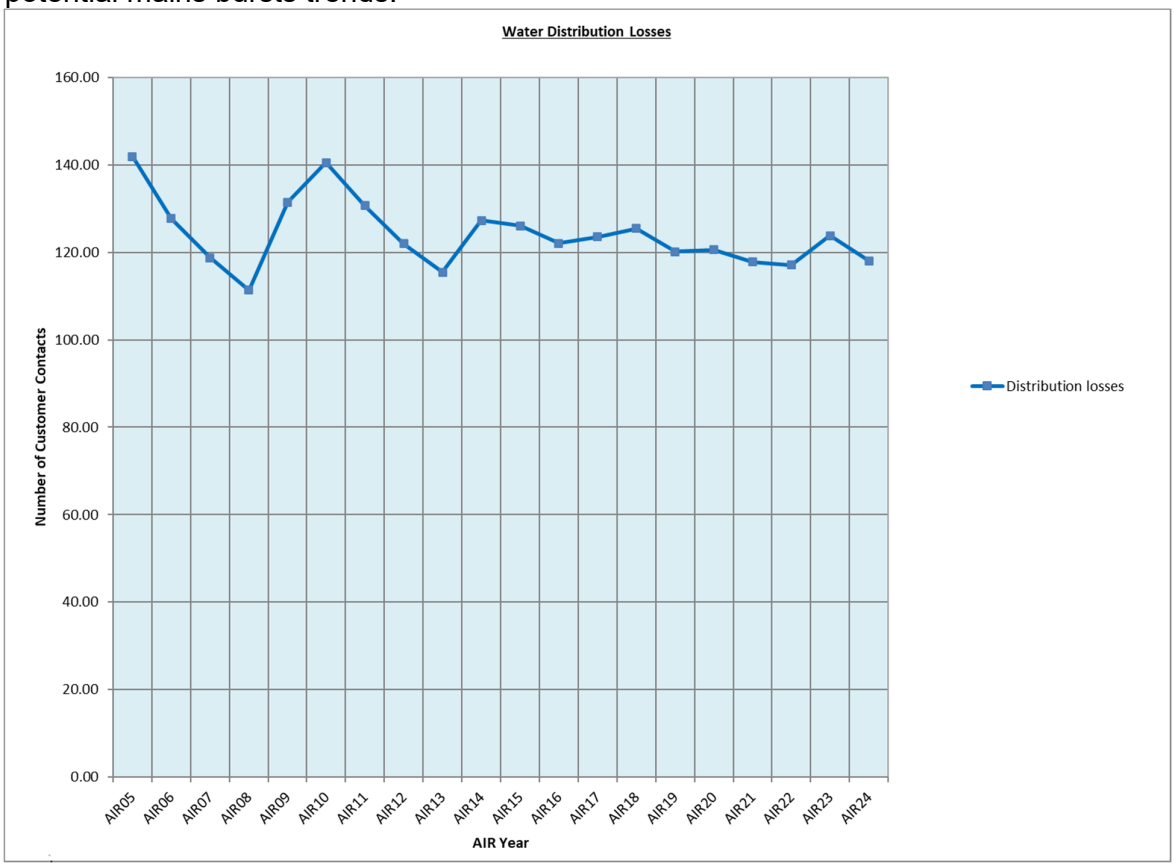
Discolouration Contacts per month 2023	
Month	**Count of Contact**
Jan Count	**258**
Feb Count	**307**
Mar Count	**365**
Apr Count	**236**
May Count	**174**
Jun Count	**305**
Jul Count	**211**
Aug Count	**329**
Sep Count	**419**
Oct Count	**241**
Nov Count	**213**
Dec Count	**196**
Grand Count	**3254**
Average Monthly number of contacts	271

The average monthly total for AIR24 (for the Calendar Period Jan to Dec 2023) is 271 Calls which is comparable to the 312 calls from last year



Line 15 – Water Distribution Losses

This information as an explanatory factor for mains bursts which can be monitored for potential mains bursts trends.



The Water Distribution losses total for **AIR24** =118.08 Ml/day

This figure is comparable to the output figures since the start of PC15.
This is calculated by subtracting Lines 16 (DSOU) and 20 (Water Delivered) from Line 26 (Distribution Input),

This Indicator is considered to **Stable.**

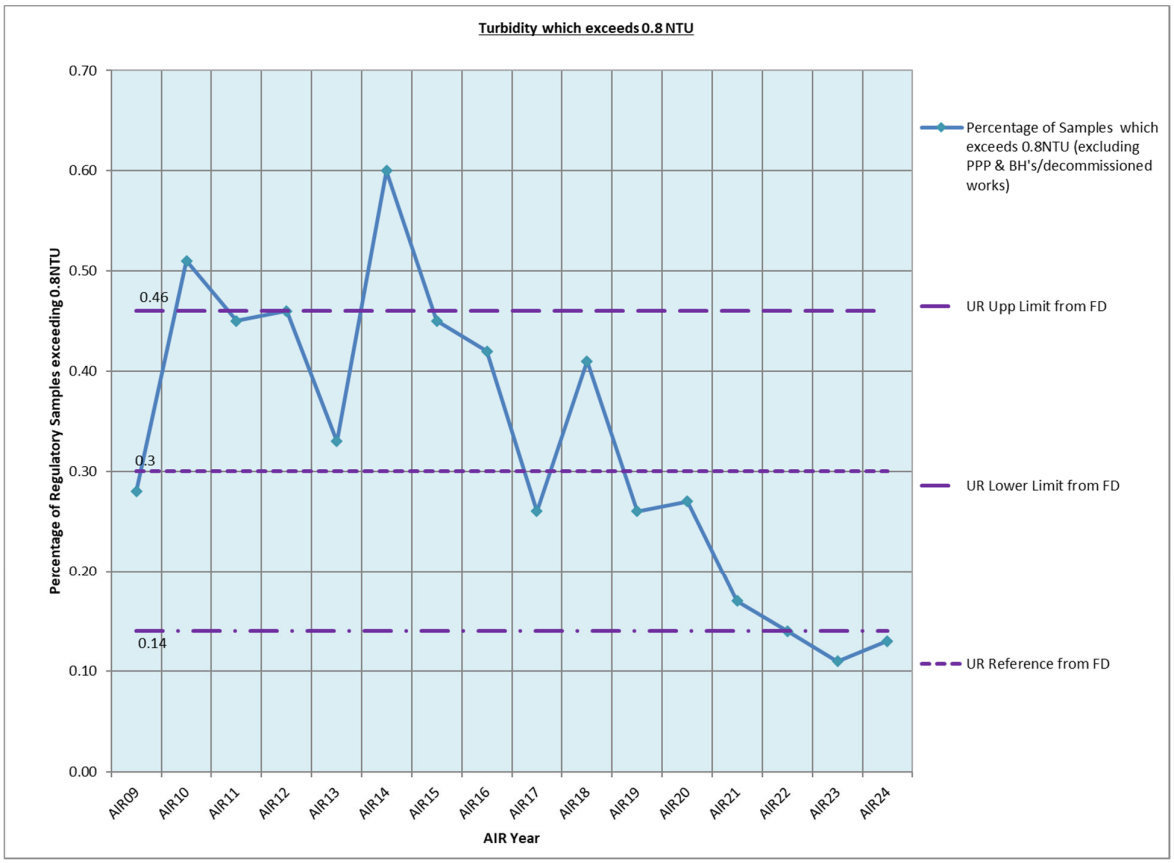
Line 30 – Company's overall serviceability assessment for Water Non-Infrastructure

The serviceability assessment has been designated as **Stable** as the trend analysis associated with the basket of serviceability indicators, used to assess serviceability for water non-infrastructure, are either within, or have outperformed the control limits based on the latest AIR23 information.

This can be seen in the serviceability graphs below and the associated comments:

Primary Indicator

Line 20 – Turbidity which exceeds 0.8NTU – excluding PPP & BH's/decommissioned works



The output for AIR 23 = 0.11%

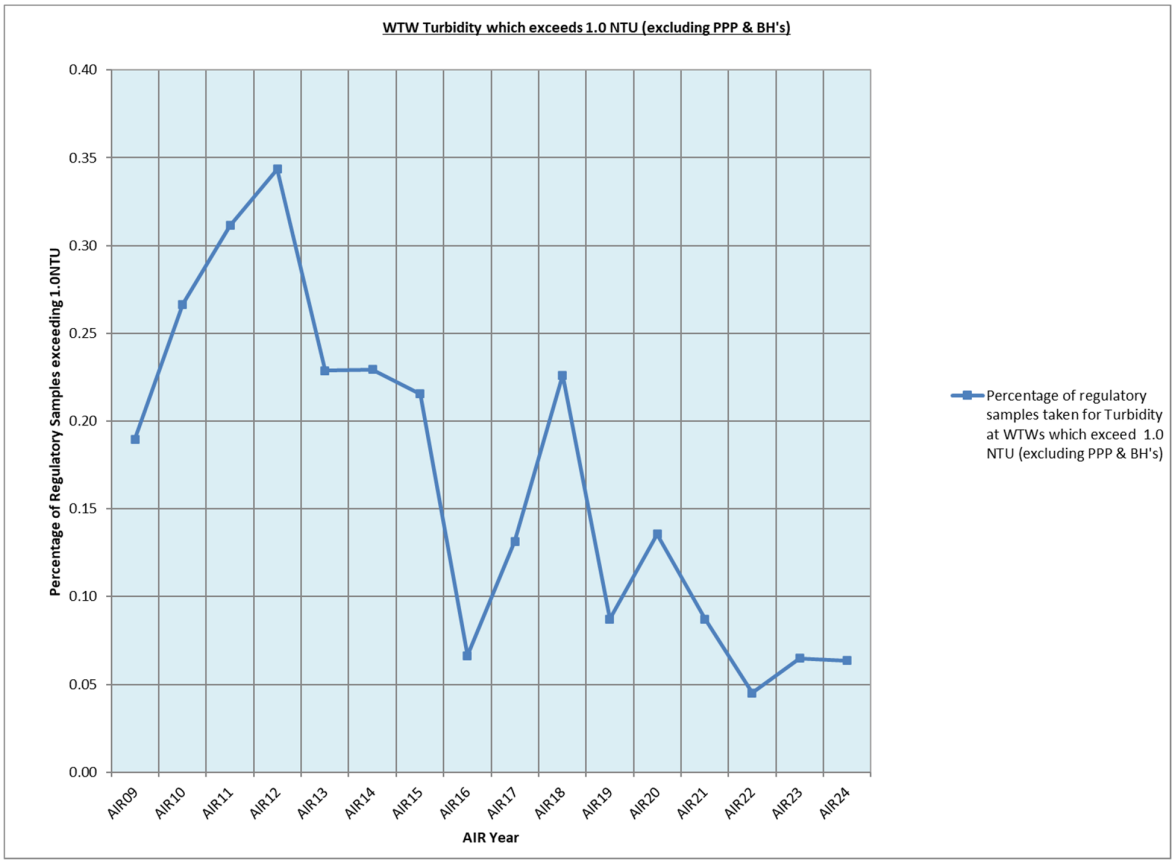
The AIR 23 figure is calculated from Line 19 = 5 failed regulatory samples divided by Line 17 = 4,601 (total samples) and calculated as a percentage =0.11%

The AIR 24 figure is calculated from Line 19 = 8 failed regulatory samples divided by Line 17 = 6,294 (total turbidity samples) and calculated as a percentage =0.13%

For the last 5 years the trend has kept between the lower and the median of the agreed UR Limits, on the graph.
This measure is considered to be **Stable.**

Secondary Indicators

Line 18 WTW Turbidity which exceeds 1.0 NTU



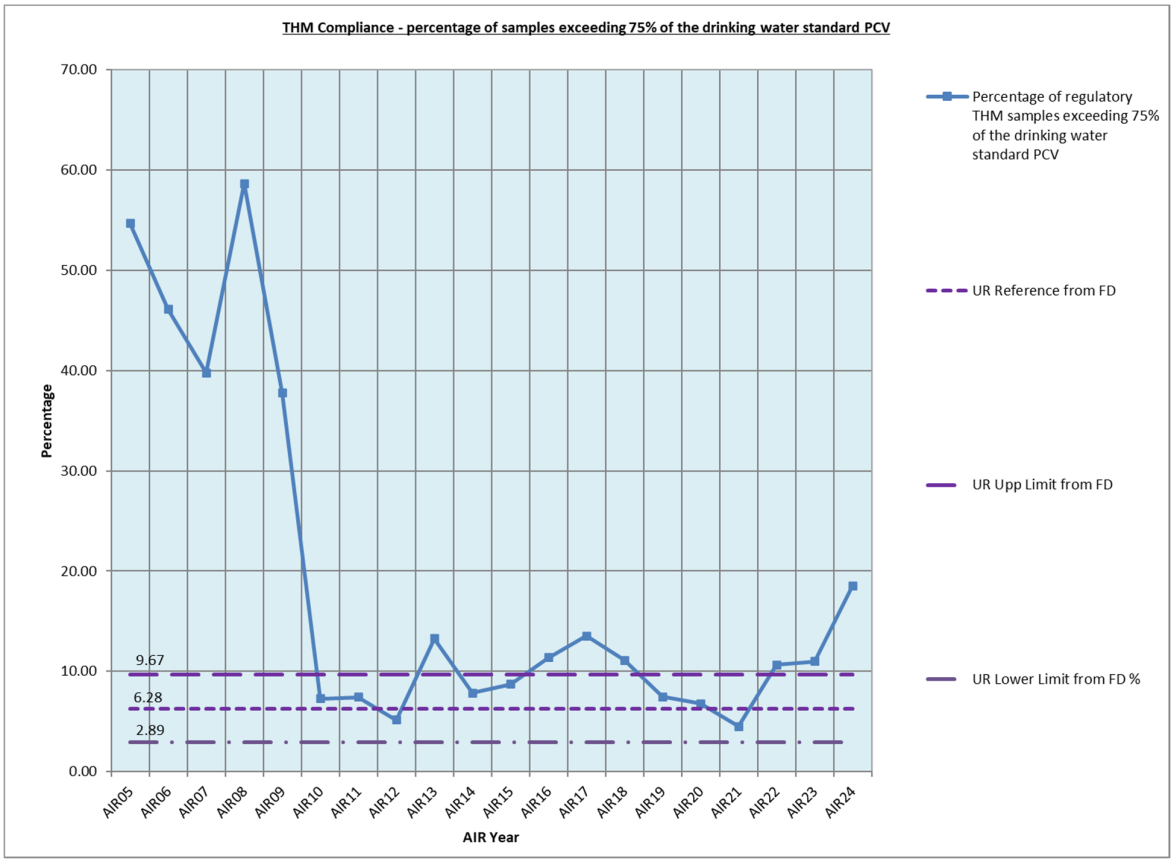
The AIR 24 figure is calculated from line 18 = 4 failed regulatory samples divided by Line 17, = 6,294 samples, expressed as a percentage =4/6,294 = 0.06%

This factor is included as an indicator only. The outputs from the last 4 years have shown a pattern, not exceeding 0.10%.

The “WTW Turbidity which exceeds 1.0 NTU – excluding PPP & BH’s/decommissioned works” does not have indicator limits/references set by the Regulator. It has been included for illustrative purposes only.

NIW continue to carry out investigations in relation to quality check issues with sample points and analytical equipment, which can indicate exceedances, but are not generally reflective of the water quality, or the Serviceability of the WTW.
This measure is considered to be **Stable.**

Line 24 - THM Compliance - percentage of samples exceeding 75% of the drinking water standard PCV.



This output is calculated by dividing Line 23 = 86 samples which failed in this range, by Line 21= 464 samples taken, i.e. 86/464 = expressed as a percentage =18.5%

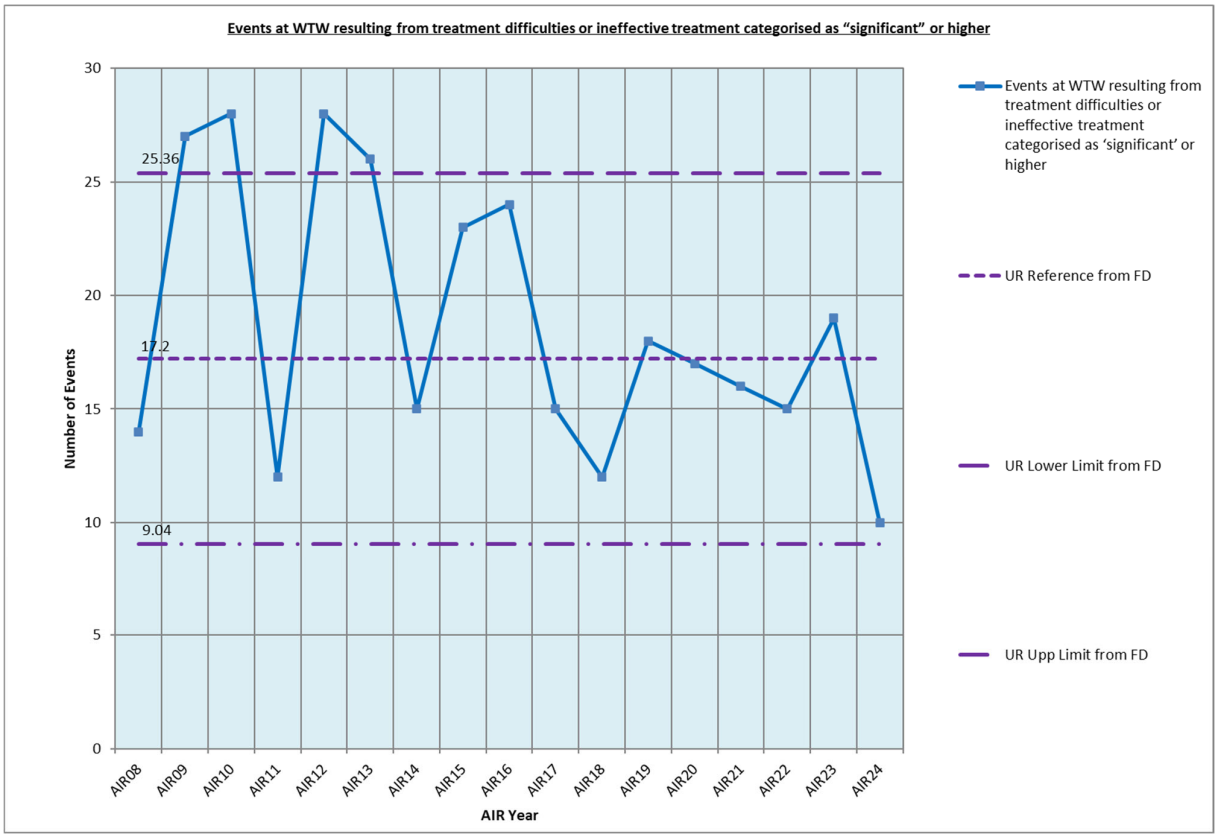
AIR22 to AIR24 outputs have exceeded the upper control limit, and is therefore now considered to be **Deteriorating.**

THM Action Plans have been developed, and both THM results, and the Action Plans are discussed on a monthly basis at the Water Quality Compliance Review Group.

The WTWs have a final water operational monitor for THMs, which acts as a proactive alarm if 50% of the PCV (50µg/l) is measured. THMs outputs are regularly monitored within NI Water

This measure is considered to be **Deteriorating.**

Line 25 - Events at WTW resulting from treatment difficulties or ineffective treatment categorised as “significant” or higher

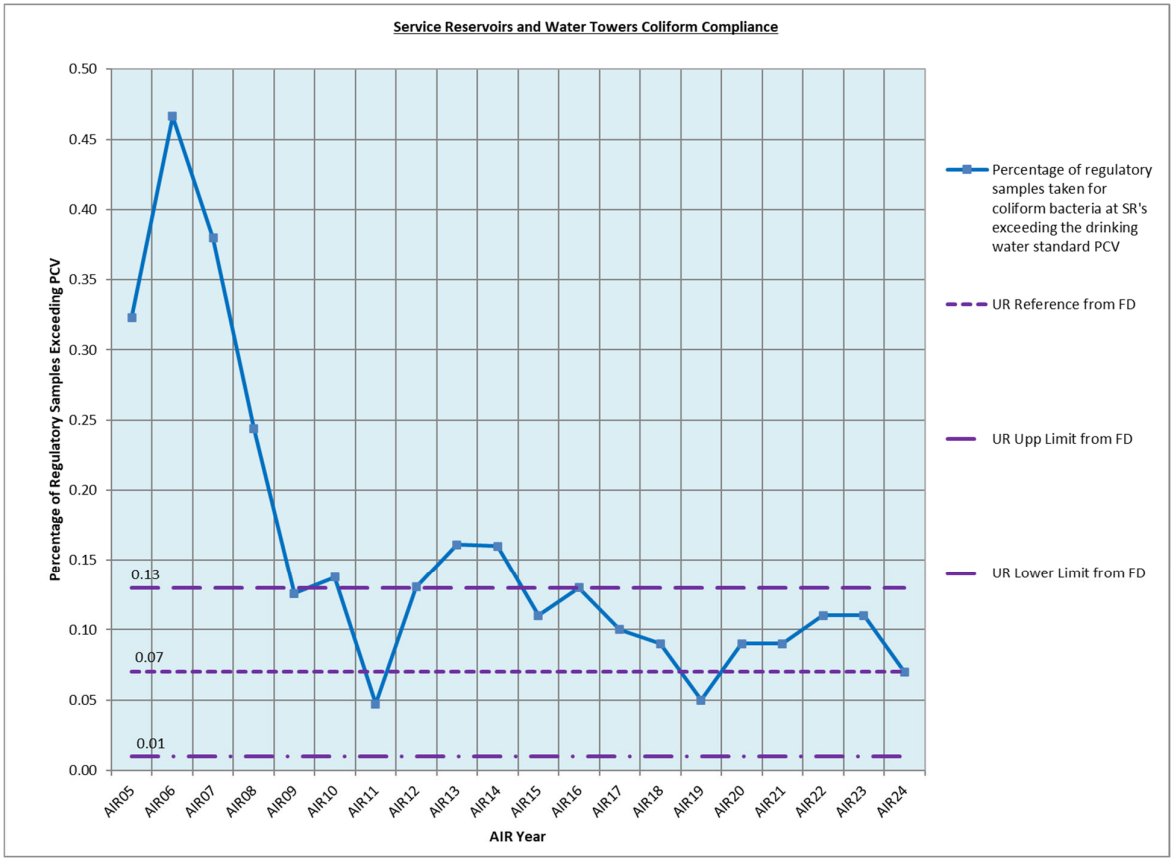


The output for AIR24 is a number of events recorded is 10 nr.

The PC21 trend is fluctuating around the UR median reference limit since AIR 17

“Events at WTW resulting from treatment difficulties or ineffective treatment categorised as significant or higher” to DWI, has continued, since AIR 14, to perform as **Stable.**

Line 28 - Service Reservoirs and Water Towers Coliform Compliance – Secondary Indicator



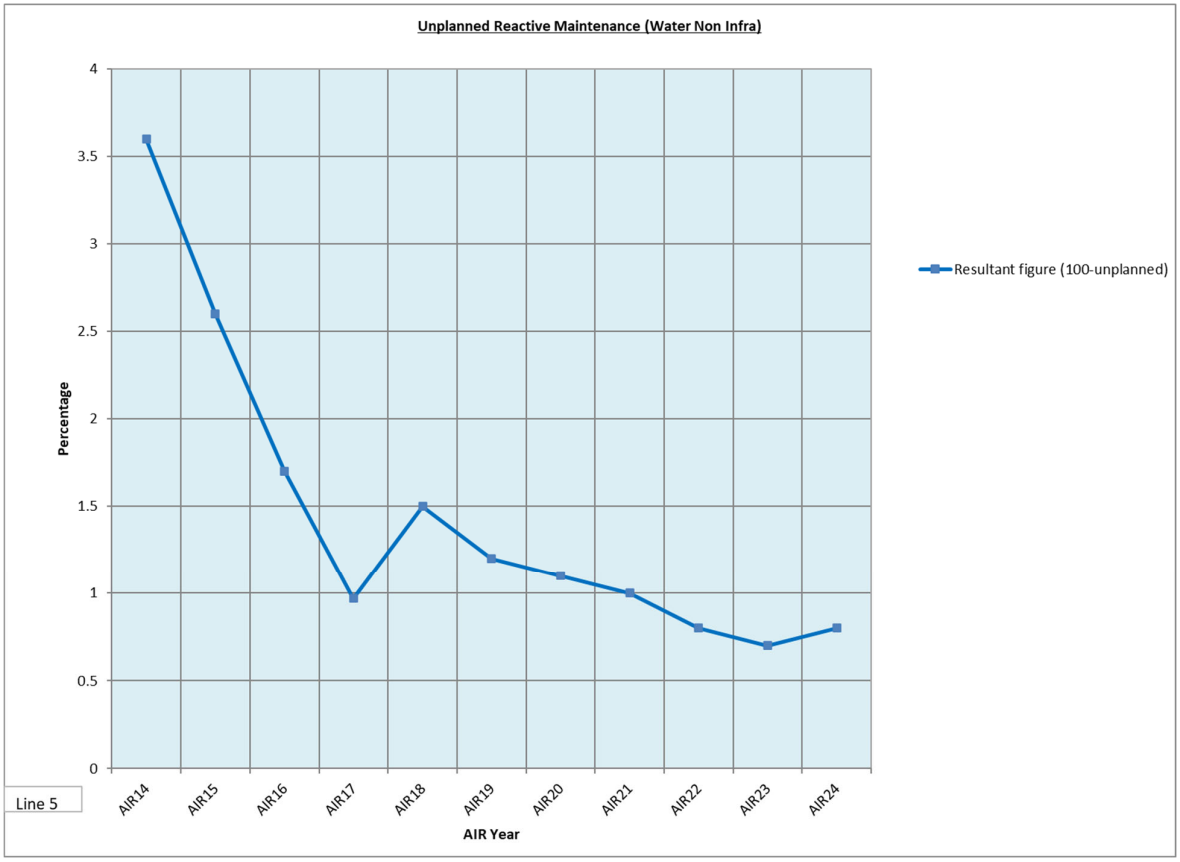
The AIR 24 figure is calculated from Line 27 (number of failed samples) = 11 divided by Line 26 = Total number of samples taken = 14,795nr = 0.074

The output is 11/14 795 expressed as a percentage = 0.07%

This figure has fluctuated between the UR median reference limit and the UR Upper limit since AIR17 This is a result of proactive inspections and refurbishments and proactive SR management.

“Service Reservoirs and Water Towers Coliform Compliance” has continued to show **Stable** performance over recent years.

Line 29 – Unplanned Reactive Maintenance (Water Non-Infra) – Percentage of Availability of Critical Assets



Although this indicator is the Percentage of Availability of Critical Assets the figures in the above graph depict the non-availability of critical assets for illustrative purposes, and to maintain a consistent approach with other graphs within this document.

The figures are based on telemetry data for the critical items of plant in a failed state. As this is relatively new reported data, the reference and limits have not been set, as a larger range of data is required before Serviceability can be reasonably assessed.

The reduction of items in a failed state over recent years may be due to routine proactive maintenance and the prioritisation of capital investment to sites/assets where most required.

There is a continued focus on the out of service database and returning failed assets to service as soon as possible. This has resulted in this reduction over previous few years; however, it is accepted that due to the nature of the industry there will always some level of unavailability of assets. This trend is stable, see graph above.

The returned AIR24 figure for this measure is 0.75%, i.e. 0.8%on the data table (to 1 decimal point).

Note: The THM Compliance is considered to be deteriorating. However, the Network overall, is considered to be **Stable.**

Line 45 – Company's overall serviceability assessment for Sewerage Infrastructure

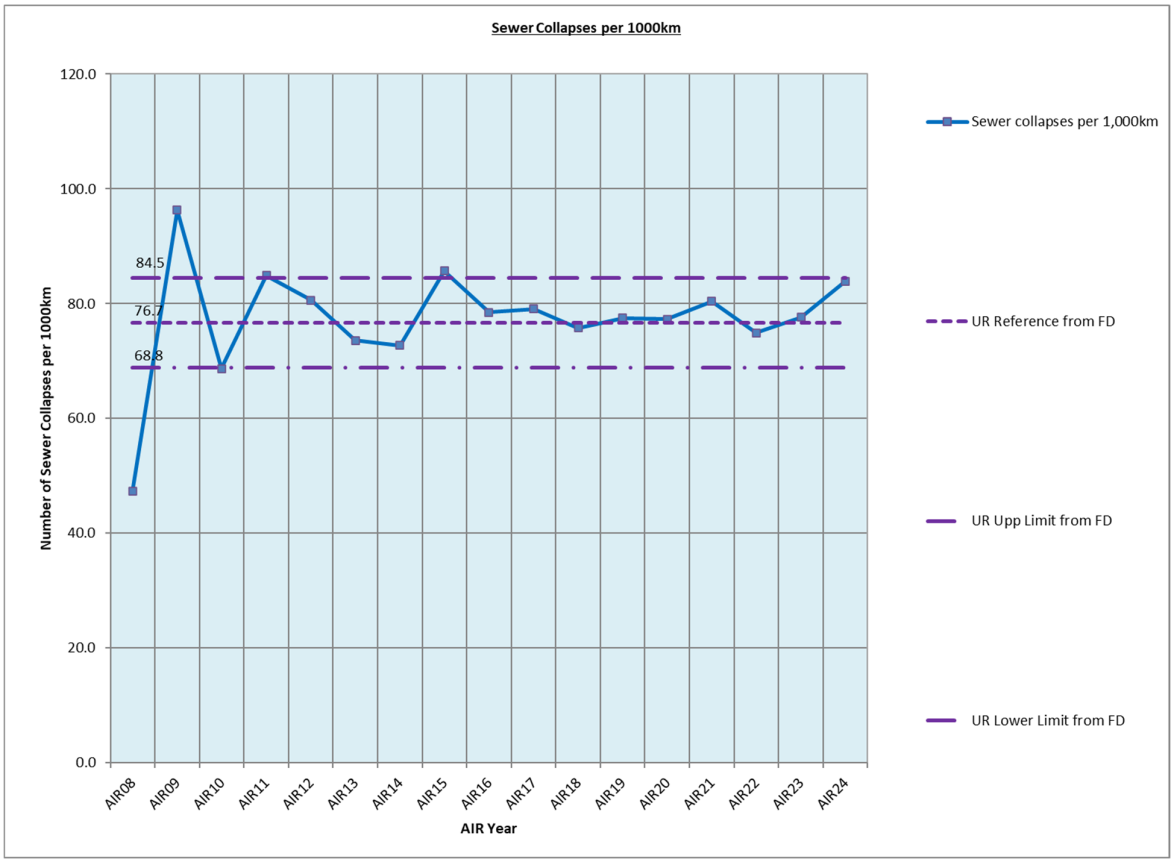
The serviceability assessment has been designated as Stable as the trend analysis associated with the basket of serviceability indicators, used to assess serviceability for sewerage infrastructure, are all within the control limits or under the lower control limits based on the latest AIR24 information.

Wastewater Infra Serviceability

Primary Indicator

Line 35 – Sewer Collapses per 1,000km

This graph shows the number of collapses reported over the AIR return periods, which would indicate a continuing Stable performance for AIR24.

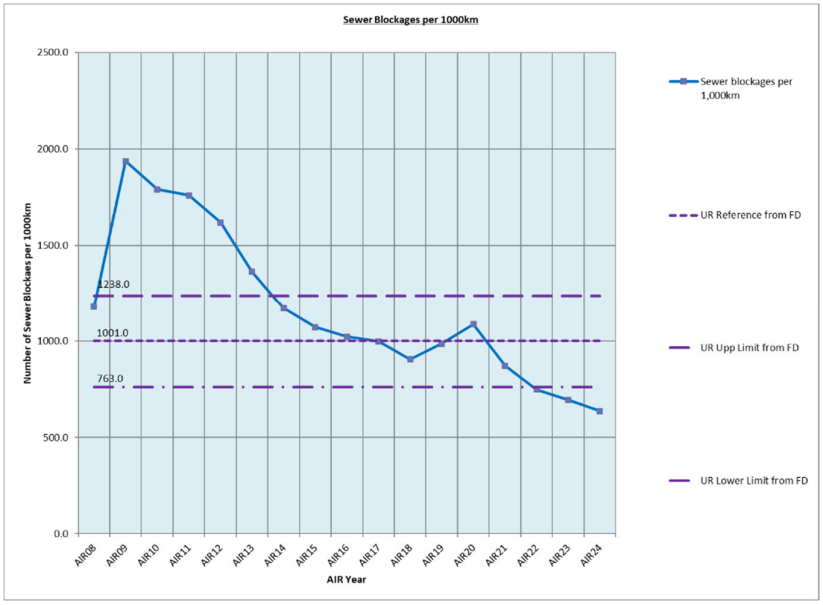


Secondary Indicators

Line 37 – Sewer Blockages per 1,000km

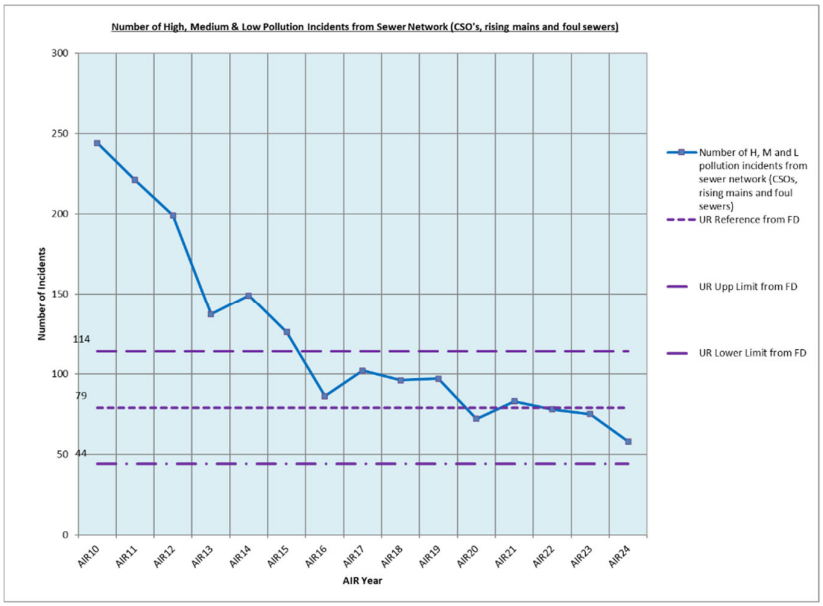
This graph shows the number of blockages per 1000km over the different AIR return periods, which would indicate an Improving performance.

The reduction strategy set out by NI Water is making a positive impact in the reduction of sewer blockages. By the use of the hotspot tool, letter drops in certain catchments and an increased programme of CCTV, the number of blockages has greatly reduced since 2008/09.



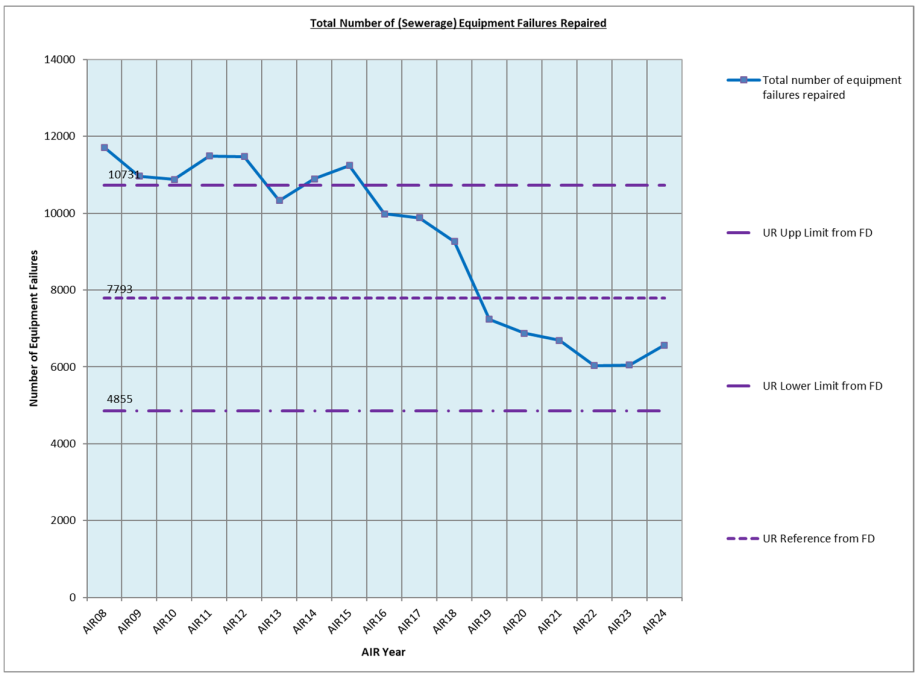
Line 39 - Number of H, M and L Pollution Incidents from Sewer Network

This graph shows the high, medium and low pollution incidents from the sewer network over the AIR return periods for CSO's, rising mains and foul sewers. Which would indicate a Stable performance.



Line 42 – Total Number of (Sewerage) Equipment Failures Repaired

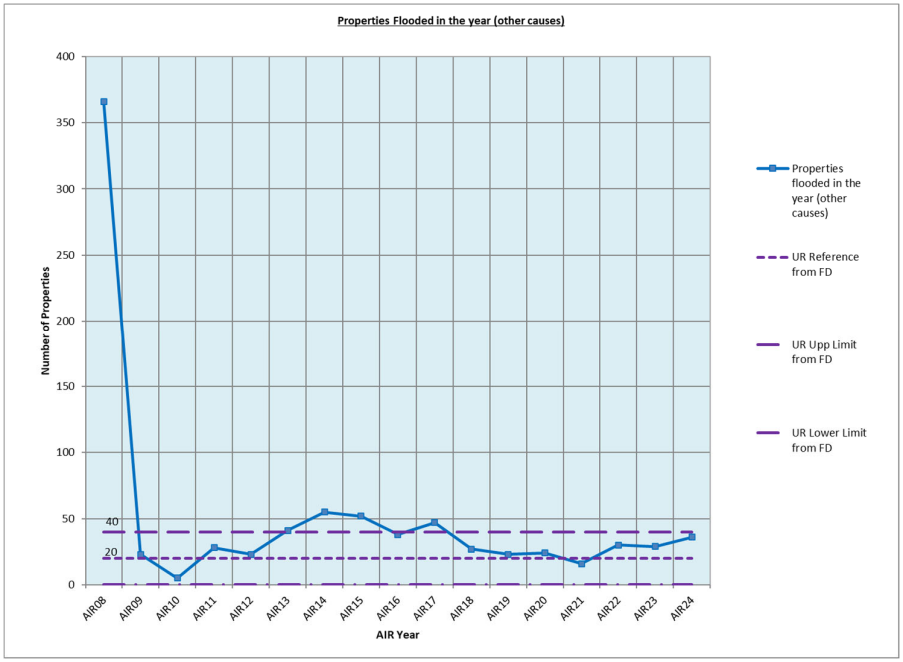
This graph shows the total number of sewerage equipment failures repaired and continues to show a Stable performance.



Tertiary Indicators

Line 40 – Properties Flooded in the Year

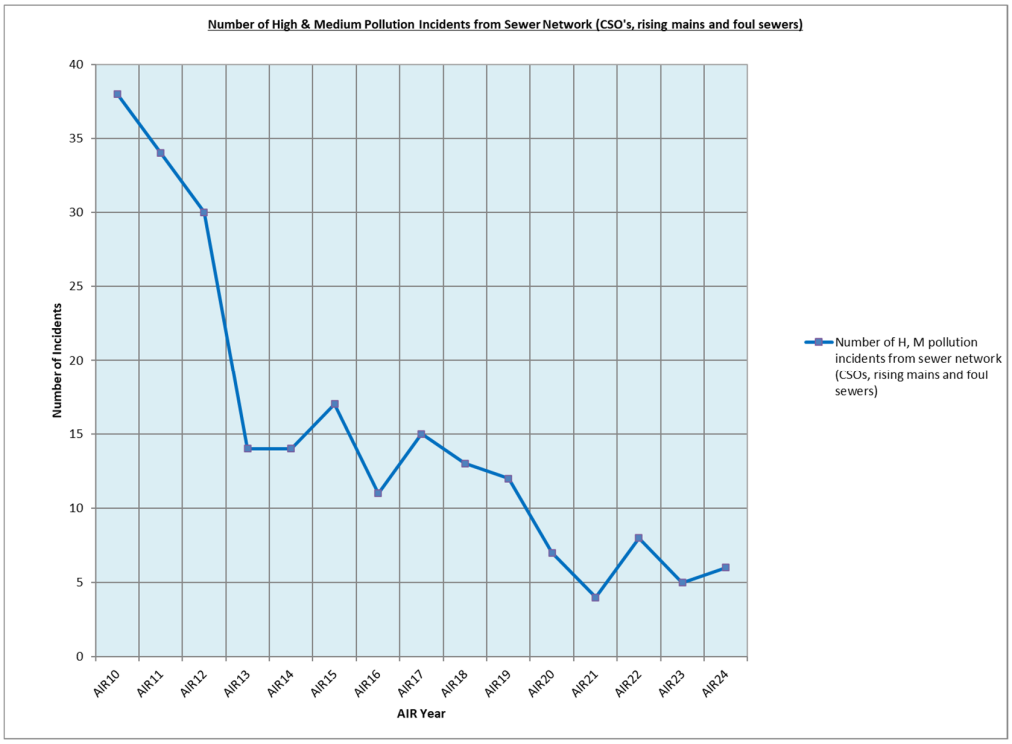
This indicator is to monitor performance and not incorporated in the serviceability assessment, it has however been included as a Tertiary Indicator. It continues to perform as Stable.
NB This graph has been suspended by the NIAUR.



Other Informative Graphs

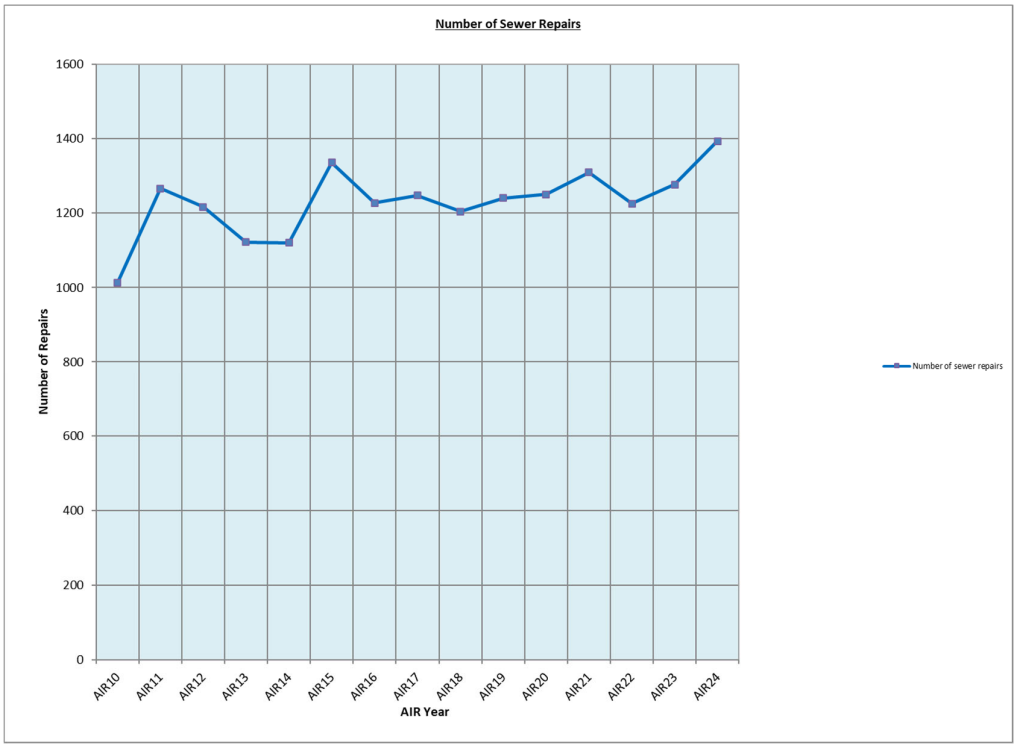
Line 38 – Number of H and M Pollution Incidents from Sewer Network

This graph has been submitted for information purposes only.



Line 44 – Number of sewer repairs

This graph is included for information only.



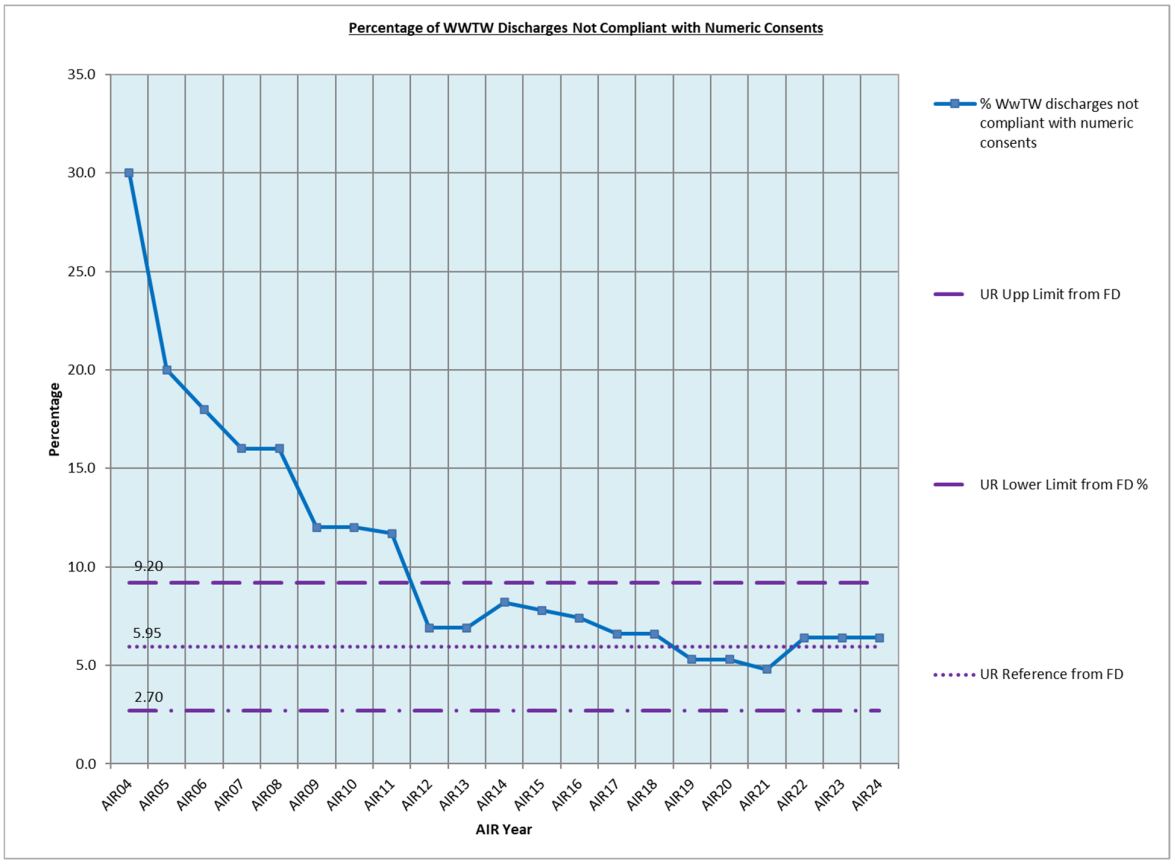
Line 54 – Company's overall serviceability assessment for wastewater non-infrastructure

The serviceability assessment for AIR24 has been designated as Stable as the trend analysis associated with the basket of serviceability indicators, used to assess serviceability for wastewater non-infrastructure, shows both the Primary and Secondary Indicators as Stable.

Primary Indicator

Line 46 – Percentage of WWTW Discharges Not Compliant with Numeric Consents

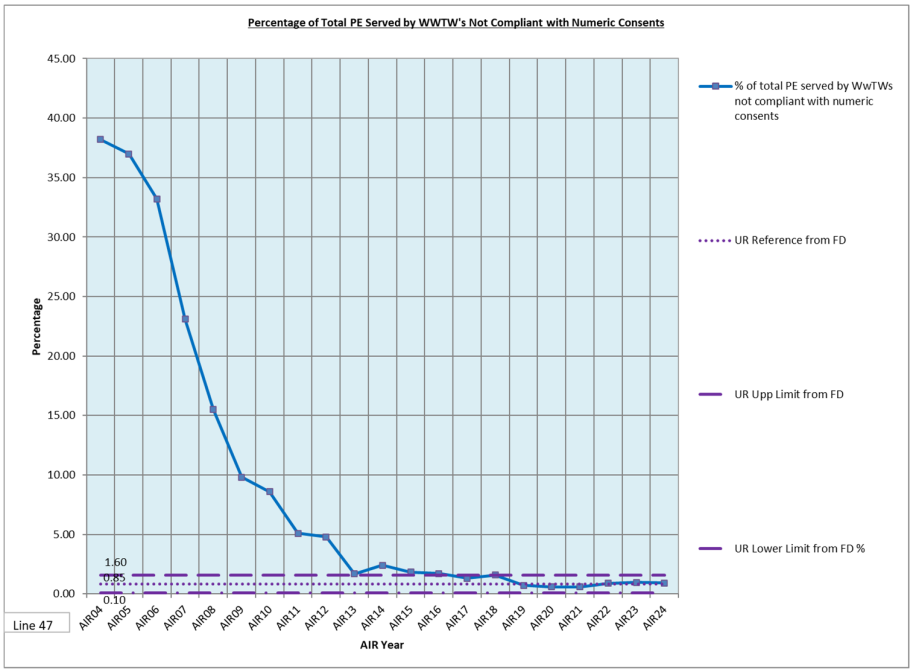
"Percentage of WWTW Discharges Not Compliant with Numeric Consents" has continued to show Stable performance over recent years. The regular investment from Capital Maintenance and Quality driven projects has helped maintain this Stable output.
NB The NIAUR updated Limits for data after AIR22.



Secondary Indicators

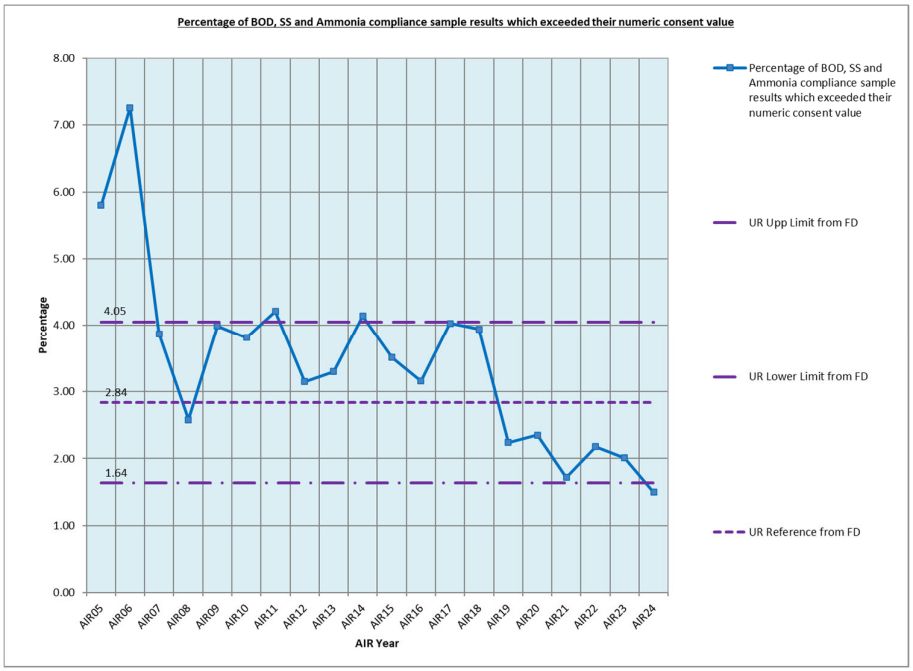
Line 47 – Percentage of Total PE Served by WWTWs Not Compliant with Numeric Consents

"Percentage of Total PE Served by WWTWs Not Compliant with Numeric Consents" has shown Stable performance.
NB The NIAUR updated Limits for data after AIR22.



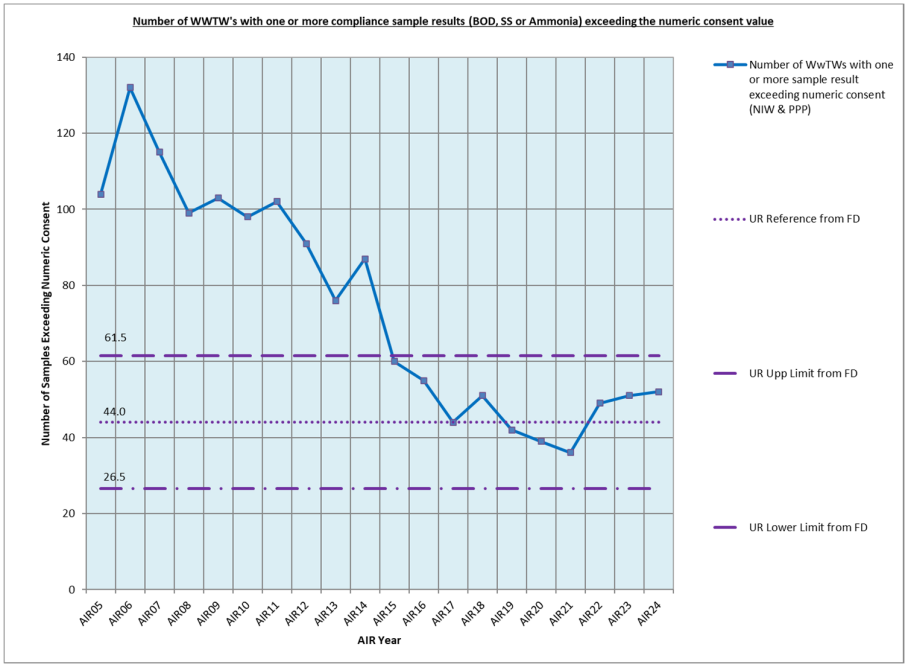
Line 50 – Percentage of BOD, SS and Ammonia compliance sample results which exceeded their numeric consent value

Since the initial outlying figures of AIR05 & AIR06 the "Percentage of BOD, SS and Ammonia compliance sample results which exceeded their numeric consent value" has continued to perform well in AIR24.



Line 51 - Number of WWTWs with one or more compliance sample results (BOD, SS or Ammonia) exceeding the numeric consent value

“Number of WWTWs with one or more compliance sample results (BOD, SS or Ammonia) exceeding the numeric consent value” has been Stable in AIR24.



Other Informative Graph

Line 53 – Unplanned Reactive Maintenance (Wastewater Non Infra) – Percentage of Availability of Critical Assets

Although this indicator is the Percentage of Availability of Critical Assets, the figures in the above graph depict the non-availability of critical assets for illustrative purposes, and also to maintain a consistent approach with other graphs within this document.

The figures are based on telemetry data for the critical items of plant in a failed state. As this is relatively new reported data, Reference and Limits have not been set as a larger range of data is required before Serviceability can be reasonably assessed.

The reduction of items in a failed state over recent years may be due to the benign weather, routine proactive maintenance and/or the prioritisation of capital investment to sites/assets where most required.

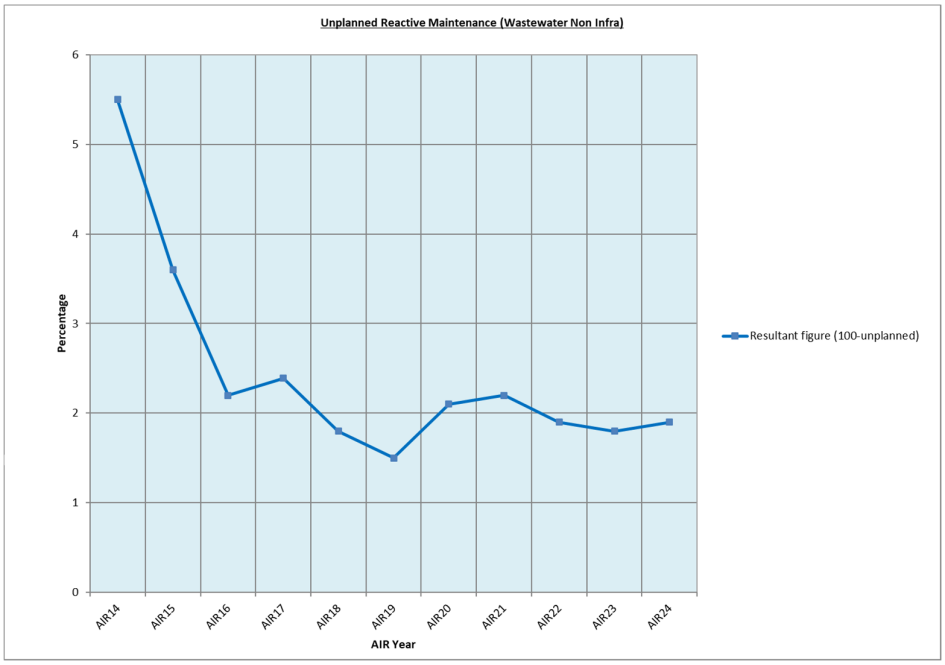

Unplanned Reactive Maintenance (Wastewater Non Infra)
Percentage
0
1
2
3
4
5
6
AIR14
AIR15
AIR16
AIR17
AIR18
AIR19
AIR20
AIR21
AIR22
AIR23
AIR24
AIR Year
Resultant figure (100-unplanned)

Table 47 - Development Outputs

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DEVELOPMENT OBJECTIVE [DO]		
Ref	Development Objective	Sub-Programme
0	**Master DO Programme**	**All**

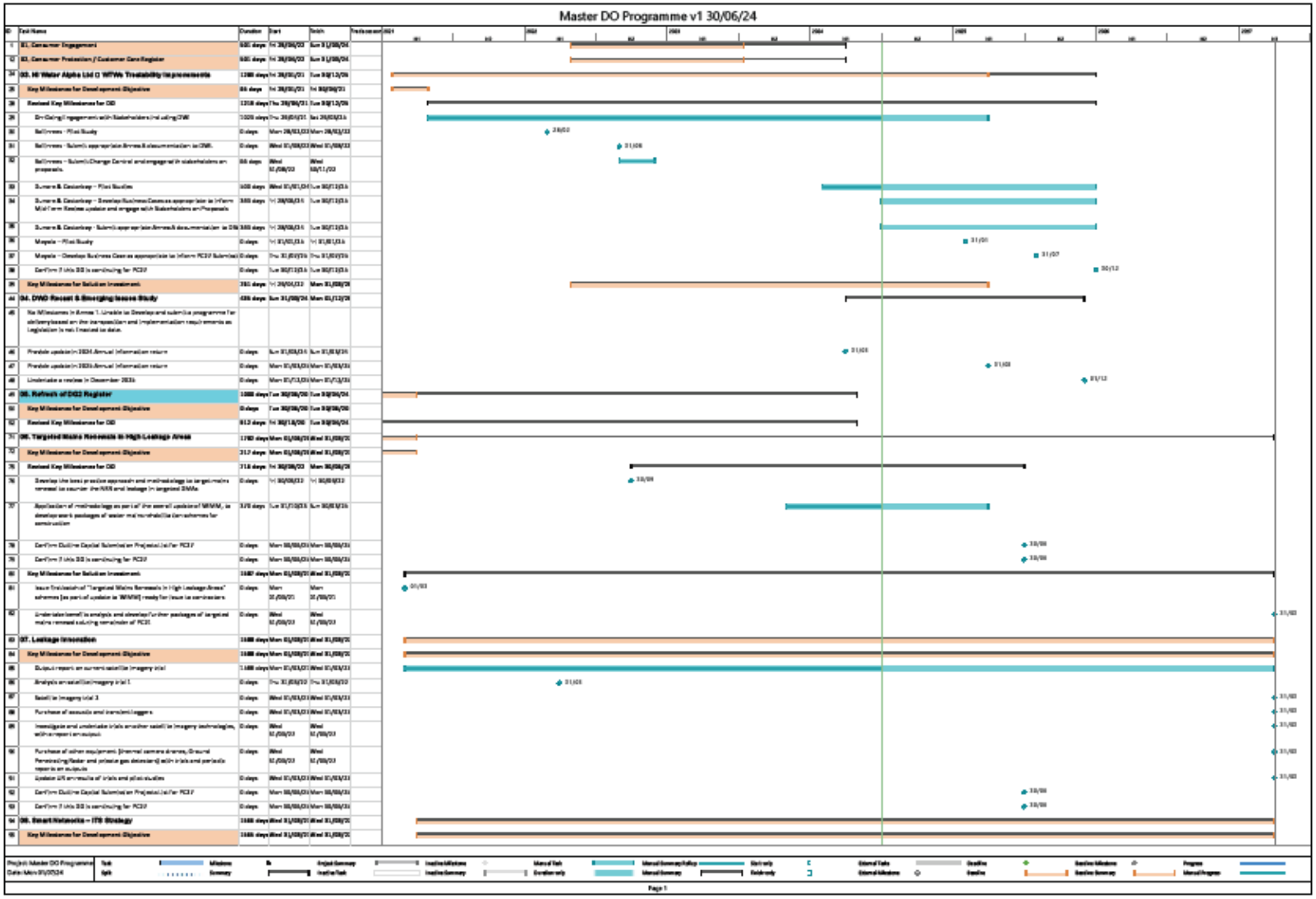
GOVERNANCE		
Directorate	**SRO**	**Project Lead**
AD	[redacted]	[redacted]

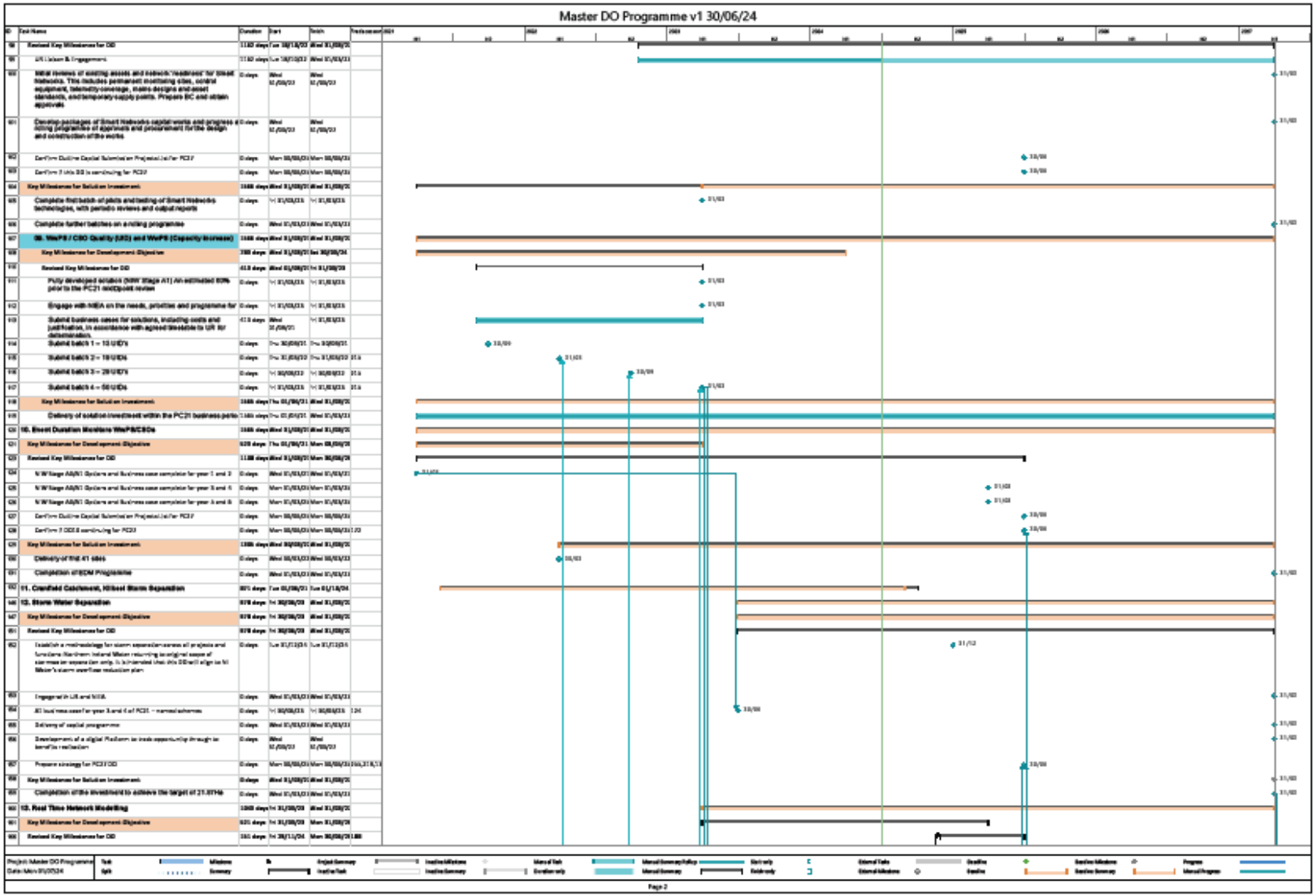
REASON FOR MASTER PROGRAMME

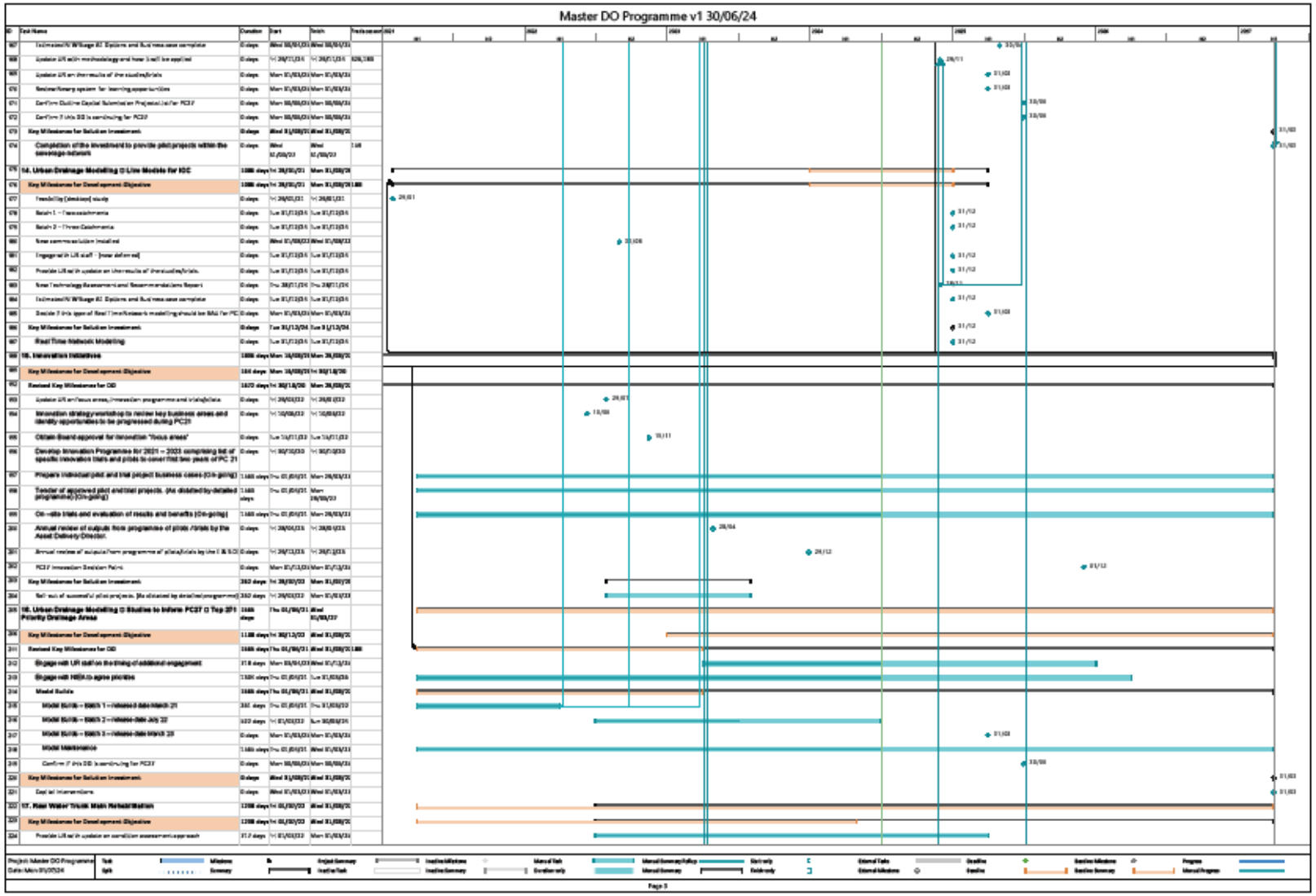
The UR Monitoring Expectations column in Annex T had a common expectation for most DOs of:

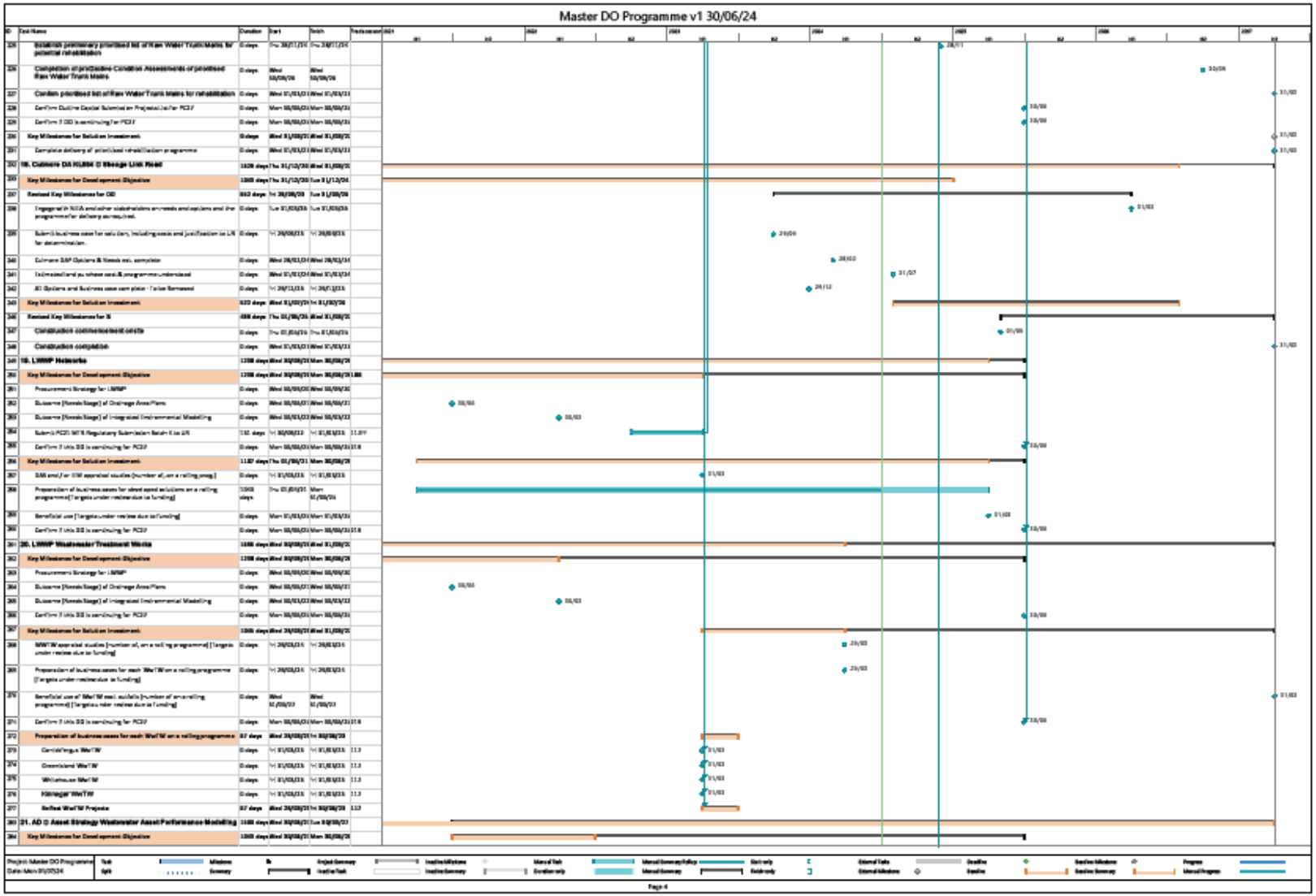
We expect NI Water to - Develop and submit an updated programme for the delivery of this objective.

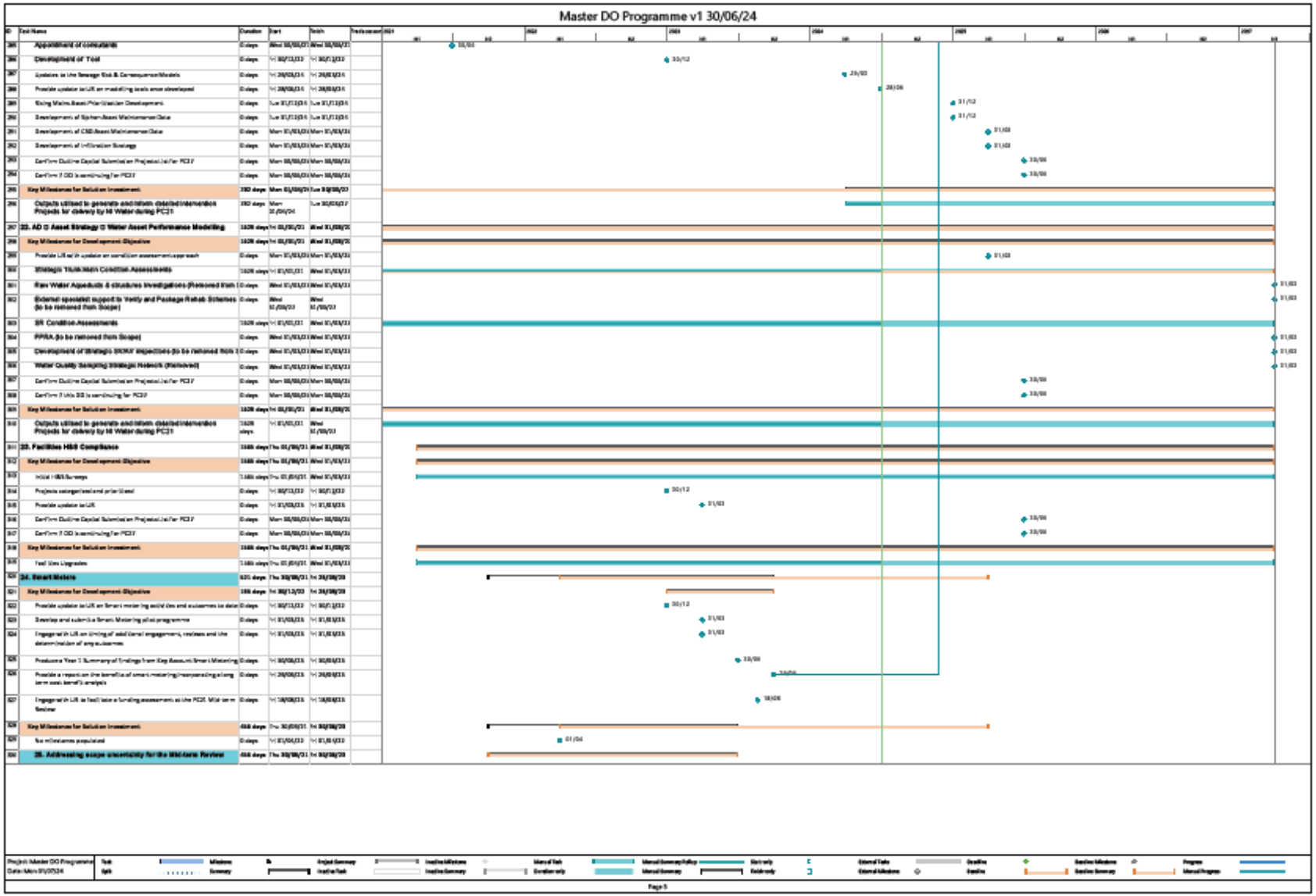
This expectation is fulfilled by the attached Master DO Programme v1 30/06/24 pdf for this AIR submission.


Master DO Programme v1 30/06/24


Master DO Programme v1 30/06/24


Master DO Programme v1 30/06/24


Master DO Programme v1 30/06/24


Master DO Programme v1 30/06/24

DEVELOPMENT OBJECTIVE [DO]		
Ref	Development Objective	Sub-Programme
01	**Consumer Engagement**	**N/A**

GOVERNANCE

Directorate	SRO	Project Lead
C&OD	[redacted]	[redacted]

PROJECT SCOPE

Strategic

We have entered a long-term strategic partnership with engagement experts Ipsos MORI that will run through to the middle of PC21. In their role, they will:

- provide leadership and management of effective and appropriate ongoing customer and stakeholder engagement;
- conduct an annual omnibus survey to ensure that we are considering the views and perceptions of the silent majority;
- spend 3-4 days per year reviewing industry trends, attending engagement sector conferences and researching innovative engagement approaches to ensure that engagement activities are always evolving and improving; and
- undertake a consumer research and engagement review/appraisal at the mid-point of PC21.

At the mid-point of PC21, we will commence retender of strategic consumer engagement contract in preparation for PC27.

Operational

In tandem, we will continue to learn from our daily interactions with customers by:

- analysing the type of contacts to help us prioritise what matters to our customers;
- continuing to survey them on a near real-time basis;
- using this information to develop insight that we will share with our operational colleagues and agree actions to drive improvement offering our customers contact choices that complement their lifestyle.

UR MONITORING EXPECTATIONS

NI Water did not provide any detail in its submission beyond the scope of this development objective.

The objective is currently at the early stage of introducing new consumer metrics and KPIs in year 1 and year 2 of PC21 to inform the Mid-term Review (see long list of new consumer measures and metrics included under PC21 FD Main Report - Section 3 Outputs and Outcomes).

The CM/SAT Working Group will develop the long list of new consumer measures and metrics. We also propose that a new Codes of Practice sub-group of the CEOG should report to CEOG on progress regarding the forthcoming review of NI Water's Codes of Practice and consumer promises.

The UR will work with NI Water and other stakeholders to agree the exact detail of the associated monitoring requirements. As a minimum, progress will be monitored and reported on through the annual cost and performance report process. It is anticipated that work will need to be undertaken by the PC21 Mid-term Review or earlier.

KEY MILESTONES	Target	Status

Conduct 23/24 Annual Omnibus Survey	Mar 24	Complete
Develop 23/24 action plan based upon real time customer survey information and contact analytics.	May 23	Complete
CM/SAT consideration of 'Consumer Engagement Development Objective – undertake a consumer research and engagement review / appraisal at the mid-point of PC21'.	Jun 23	Complete
Work with UR and other CM/SAT stakeholders to review consumer metrics, surveys and insights.	continuous	On Track
Progress update to be provided in 2024 Annual Information Return	31 May 2024	Complete

Activity Completed in 2023/24 and its outcome

- Annual Omnibus Survey – We have completed our 23/24 Customer Satisfaction and Advocacy Survey. Results are positive with an increase in domestic satisfaction (72% to 74%) and advocacy measures staying roughly the same.
- Customer Surveys & Insights – We are continuing to survey all customers that contact NI Water, analysing results and sharing monthly with operational colleagues. Results are shared monthly with operational colleagues and used to develop a 23/24 Customer Measures Improvement Programme based upon these results. This has led to improved customer offerings and satisfaction levels.
- CM/Sat continued to meet quarterly. As part of these meetings CM/Sat considered the PC21 FD Development Output for Consumer Engagement and reviewed the line within the scope "undertake a consumer research and engagement review/appraisal at the mid-point of PC21". The group confirmed that the review/appraisal has been completed as part of CM/Sat discussions and agree that there is no requirement for further research at the mid-point of PC21.
- CM/Sat will consider the scope of potential engagement necessary to inform the PC27 business plan in due course.

As noted in our PC21 Mid-Term Review submission, section 3.1.2, work on this development output is complete and it is now considered closed.

DEVELOPMENT OBJECTIVE [DO]		
Ref	Development Objective	Sub-Programme
02	**Consumer Protection / Customer Care Register**	**N/A**

GOVERNANCE		
Directorate	**SRO**	**Project Lead**
C&OD	[redacted]	[redacted]

PROJECT SCOPE

While our household customers do not directly pay a water bill and therefore are not financially vulnerable in relation to our services, we recognise that there are vulnerabilities due to age, disability or medical conditions. We will:

- actively promote our Customer Care Register and the benefits it offers our customers;
- continue to work closely with CCNI, the Utility Regulator and the range of other organisations on the Consumer Vulnerability Working Group to support their initiatives and promote our services to these customers; and
- continue to work with other utilities to jointly promote our services and grow our Customer Care Register.

The Utility Regulator has commenced their Consumer Protection Programme priority projects of best practice frameworks (1 and 2). We will actively participate in the Utility Regulator's flagship projects to promote best practice across our organisation.

UR MONITORING EXPECTATIONS

NI Water did not provide any detail in its submission beyond the scope of this development objective.

This development objective is linked to the obligations for NI Water under the Consumer Protection Programme. It is expected to deliver benefits for consumers through enhanced protection measures delivered, monitored and reported against established best practice benchmarks across regulated industries in the UK.

These projects are currently under development and will be progressed in line with the Consumer Protection Programme and Best Practice Frameworks Project.

The UR will work with NI Water and other stakeholders to agree the exact detail of the associated monitoring requirements. As a minimum, progress will be monitored and reported on through the annual cost and performance report process.

KEY MILESTONES	Target	Status
Response to Consumer Protection Programme 2024-2029	Jan 2024	Complete
Achieved 'Just a Minute' accreditation	August 2023	Complete
Response to Best Practice Framework Proposals: Code of Practice for Consumers in Vulnerable Circumstances	Sept 2023#	Complete
Continue to engage with stakeholders on NIAUR's Best Practice Consumer Protection Programme.	Continuous	On Track
Progress update to be provided in 2024 Annual Information Return	31 May 2024	Complete

Activity completed in 2023/24 and its outcome

- Customer Care Register – We are continuing to promote the benefits and services of our Customer Care Register through various advertising campaigns including a joint leaflet with NIE. We have increased the number of customers on our register by 17% since we commenced PC21.
- Consumer Protection – We are continuing to engage with NIAUR and other stakeholders as part of the NIAUR led “Best Practice Consumer Protection Programme”.
- In 23/24 NIW have achieved ‘Just a Minute’ accreditation and are continuing to work towards ISO 22458 Inclusive Service Provision.

As noted in our PC21 Mid-Term Review submission, section 3.1.2, work on this development output is complete and it is now considered closed.

DEVELOPMENT OBJECTIVE [DO]		
Ref	Development Objective	Sub-Programme
03	**NI Water Alpha Ltd - WTWs Treatability Improvements**	**04a**

GOVERNANCE		
Directorate	**SRO**	**Project Lead**
AD	[redacted]	[redacted]

REASON DEVELOPMENT OBJECTIVE IS NECESSARY

This Project is currently at appraisal stage and sufficient detail is not available at present to fully assess requirements.

DEVELOPMENT OBJECTIVE TO CONFIRM SOLUTION SPEND IN PC21 &/or PC27

PC21 only ☐	**PC27 only ☐**	**PC21 and PC27 ☒**

PROJECT SCOPE

NI Water Alpha Ltd operates and maintains four WTWs (Dunore Point, Castor Bay, Ballinrees and Moyola) to deliver clean and safe water into the distribution network. A review is currently underway to ensure that all four of these works are compliant with regulatory and NI Water internal standards. Remedial actions necessary to address any shortcomings against the standards will also be identified.

No change to scope.

COMMENTARY ON MATERIAL CHANGES TO SCOPE

N/A

PROJECT OUTCOMES

- Reduced risk of compliance failure,
- Maintaining a stable service in relation to provision of clean and safe drinking water,
- Allow assessment of potential future funding need.
- Needs and Options Report

It should be noted Treatability Reports and associated Business Cases act as the Needs and Options Report as described in the EC Dashboard key deliverables for this DO.

No change to PC21 FD project outcomes.

COMMENTARY ON MATERIAL CHANGES TO PROJECT OUTCOMES

N/A

UR MONITORING EXPECTATIONS

Progress on the delivery of this objective will be monitored and reported on through the annual cost and performance report process as a minimum. In addition, the UR expects NI Water to:

- Develop and submit an updated programme for the delivery of this objective.
- Engage with UR staff on the timing of additional engagement, reviews and the determination of expenditure.
- Keep stakeholders updated on developments and proposals through the ORG.
- Share completed treatability studies with Utility Regulator and DWI.
- Submit appropriate Annex A documentation to DWI, allowing sufficient time for consideration/approval.
- Complete and submit a change control to stakeholders for consideration/approval (if required).
- Submit business cases for solutions, including costs and justification, to UR for determination (if required).

HOW UR MONITORING EXPECTATIONS HAVE BEEN FULFILLED
As part of the AIR 22 submission for this development objective an updated programme was submitted to the UR. This programme has broadly been followed since the AIR22 submission although there are changes for the subsequent period. A change control for Ballinrees was submitted in November 2022 with engagement with UR as required. The formal change control was submitted via ORG ensuring wider stakeholder engagement including DWI. In addition there have further engagements with DWI through the ongoing Drinking Water Inspectorate/ NI Water Compliance meetings. All information relevant to support the Change Control including the background treatability information and supporting Business Cases have also been shared. As supported by DWI, Annex A information was not submitted for Ballinrees as it was not a requirement as a Regulation 31 Notice was in place for MCPA and Taste & Odour exceedances which negated the need for Annex A documentation.
PROGRAMME
See Master DO Programme v1 dated 30/06/24
KEY MILESTONES FOR DEVELOPMENT OBJECTIVE

Description Key PC21 FD DO Milestones	**FD21 Annex T Milestone Target Date**	**Status Vs FD21 Target**	**Current Milestone Target Date**	**Status Vs Current Target**	**Commentary on Material Milestone Date Changes *AND / OR* Reasons for any material Delay**
Completion of appraisal and update PC21 business case	Jan 21	Superseded		N/A	As highlighted in AIR22 it was no longer NI Waters intention to complete Change Controls/ Business Cases for NI Water Alpha sites within the timescales originally envisaged as these have now been prioritised in conjunction with all WTWs in relation to the overall treatability pilot programme.
Completion of regulatory Change Control process	Apr 21	Superseded		N/A	
Annual Engagement with UR as part			Annually	On Target	

of AIR Return					
On-Going Engagement with Stakeholders including DWI			On-Going	On Target	
Ballinrees - Pilot Study			Feb 22	Complete	
Develop and submit (to the UR) an updated programme for the delivery of this objective			June/ July 22	Complete	As part of the AIR 22 submission for this development objective an updated programme was submitted to the UR.
Ballinrees - Submit appropriate Annex A documentation to DWI.			Aug 22	N/A	Annex A information was not submitted for Ballinrees as it was not a requirement as a Reg 31 Notice was in place for MCPA & tase & Odour exceedances, negating the need for further Annex A documentation.
Ballinrees – Submit Change Control and engage with stakeholders on proposals.			Aug 22	Complete	A Change Control with subsequent engagement was submitted in November 2022.
Dunore & Castorbay – Pilot Studies			Dec 25	Delayed	The treatability study for Dunore was originally planned for 2023 but now planned for 2025. This was initially delayed due to planned

					works on the site in 2023 which would interfere with the treatability study. There are now delays caused by longer than anticipated timescales for the mobilisation and demobilisation of pilot plants.
Dunore & Castorbay – Develop Business Cases as appropriate to inform Mid-Term Review update and engage with Stakeholders on Proposals			Dec 25	Delayed	On review of overall Treatability and Funding priorities NI Water do not intend to seek funding for these sites in PC21 and business cases will be completed in Dec 25 to inform PC27 submission.
Dunore & Castorbay - Submit appropriate Annex A documentation to DWI.			Dec 25	Delayed	As above, although Annex A documentation will be submitted to DWI as appropriate this will be developed to inform the PC27 submission
Moyola – Pilot Study			Jan 25	Delayed	The treatability study for this site was brought forward in substitute of Foffany treatability

					study as deemed a higher priority. Pilot currently on-site and due to complete by Jan 25 (from Jul 24). Progress delayed by longer than anticipated timescales for the mobilisation and demobilisation of pilot plants.
Moyola – Develop Business Case as appropriate to inform PC27 Submission			Jul 25	Delayed	It is anticipated the business case will be developed by July 25 (from Apr 25) given the delay in the pilot study.
Confirm if this DO is continuing for PC27			Dec 25	On Track	Decision point on status of Development Output to assess it needs extended into PC27
KEY MILESTONES FOR SOLUTION INVESTMENT					
NI Water A1 options and business case complete	Apr 22	Superseded		N/A	As highlighted in AIR22 it was no longer NI Waters intention to complete Change Controls/ Business Cases for NI Water Alpha sites within the timescales originally envisaged as these have now been
NI Water cost & programme understood and construction start	Apr 23	Superseded		N/A	
Beneficial Use	Mar 25	Superseded		N/A	

					prioritised in conjunction with all WTWs in relation to the overall treatability pilot programme.
Ballinrees Upgrade - Commencement			Mar 23	Complete	

EXPENDITURE		
FD21 Annex T Estimated Total Cost of DO (2018/19 prices)	**Forecast Cost of DO (Nominal prices)**	**Commentary on Material Total Cost Changes for DO**
£0.00m	£5.875m	The forecast is now £5.875m an increase of £118k from AIR23 which was £5.757m. This is due to an update to finalised outturn costs for a number of pilots and also previously an estimate was used for Moyola and this has now started on site with updated costs. A breakdown can be seen below. • Ballinrees - JL795 112, 191 & JI280 111 - £2805k • Castor Bay – JG095 111 - £1060k • Moyola – JA346 111 - £1010 • Dunore point - £1000k (estimate)
PC21 FD Estimated Cost of Solution (2018/19 prices)	**Forecast Cost of Solution (Nominal prices)**	**Commentary on Material Solution Cost Changes**
£7.41m	£18.462m	This reflects the latest estimated cost of the upgrade of Ballinrees WTW required to satisfy the Reg 31 Notice in place for MCPA and Taste & Odour exceedances. (Project no: JA341,111,112, 181, 191). This is a reduction of £170k from the AIR23 forecast which was £18.632.

ACTIVITY COMPLETED TO DATE AND OUTCOMES TO DATE (MARCH 2024)

As previously reported a change control for Ballinrees was submitted, and subsequently approved, in November 2022 via ORG following engagement with UR and other stakeholders including DWI.

It was anticipated that pilot studies for both Castor Bay and Moyola would be carried out in 23/24. However, although these have started on site there have been delays primarily due to longer than anticipated timescales for the mobilisation and demobilisation of pilot plants and it will 24/25 before these are completed.

PLANNED NEXT STEPS FOR DELIVERY

As detailed in the key milestones the next steps involve delivering the pilot studies for the three remaining Alpha sites. It is anticipated the that pilots for both Castor Bay and Moyola will be completed in 24/25 with Dunore Point in 25/26. The outputs of these will then inform the long-term solution for the sites.

As previously highlighted on review of overall Treatability and Funding priorities NI Water do not intend to seek funding for these sites in PC21 and business cases will be developed to inform the PC27 submission for which the final submission is due in Jan 26. As part of the submission Annex A documentation will be submitted to DWI as appropriate.

PROPOSED MAINTENANCE EXPENDITURE / ADDITIONAL OPEX from CAPEX

N/A

IMPACT OF SCOPE / PROGRAMME CHANGES ON CAPITAL DELIVERY / OUTPUTS PROGRAMME

There was no defined capital delivery programme linked to this development output following the Final Determination.

IMPACTS ON CAPITAL OUTPUTS PROGRAMME LINKED TO TABLES 40, 40a & 40b

Links to Tables Completed	Yes ☐	No ☒	Comments

RISKS & ISSUES ASSOCIATED WITH THIS DEVELOPMENT OBJECTIVE

If the Development Objective isn't delivered the risks include:

- Lack of future funding for NI Water Alpha WTWs
- Increased risk of Water Quality Failures & Associated Customer Complaints
- Increased risk of Interruptions to Supply

WIDER BENEFITS OF THIS DEVELOPMENT OBJECTIVE

Identify relevant funding for NI Water Alpha WTWs to ensure:

- Regulatory Water Quality Standards can be achieved into the future.
- Ensure security of supply

LINKS WITH OTHER DEVELOPMENT OBJECTIVES

There are no linkages with this development objective to any other development objectives.

Development Objective – Expenditure Summary

Table DO1 Expenditure on Development Objective (Nominal Prices)

Category	Spend to End March 2024 (£m)	Anticipated Future Spend (£m)	Anticipated Total DO Spend (£m)	Comment/Project Code
Civil				
M&E				
Materials / Equipment				
NIE				
Lands				
Site Investigation				
Consultancy				
Pilot Studies	4.745	1.130	5.875	JL795,112 , 191 JG095, 111 JI280, 111 JA346, 111 £1m estimate for pilot studies at Dunore
Totals	**£4.745**	**£1.130**	**£5.875**	
PC21 Projected Spend on Development Objective			**£5.875**	

DEVELOPMENT OBJECTIVE [DO]		
Ref	Development Objective	Sub-Programme
04	**DWD Recast & Emerging Issues Study**	**04z**

GOVERNANCE		
Directorate	**SRO**	**Project Lead**
AD	[redacted]	[redacted]

REASON DEVELOPMENT OBJECTIVE IS NECESSARY

In February 2018, the European Commission adopted a proposal for a revised (recast) of Drinking Water Directive (DWD) (98/83/EC) to improve the quality of drinking water and provide greater access and information to citizens. This has yet to be formally adopted by the EU and, subsequent to this, by UK legislation. However there will be implications for NI Water's operating model should it be adopted and a study is required to evaluate the impact of this legislation.

DEVELOPMENT OBJECTIVE TO CONFIRM SOLUTION SPEND IN PC21 &/or PC27

PC21 only ☐	PC27 only ☒	PC21 and PC27 ☐

PROJECT SCOPE

A review of the current proposal for a "Directive of the European Parliament and of the Council on the quality of water intended for human consumption (recast)" to ascertain future impacts and opportunities should the recast be formally adopted. Also to review emerging issues such as antimicrobial resistance and microplastics.

No change to scope.

COMMENTARY ON MATERIAL CHANGES TO SCOPE

N/A

PROJECT OUTCOMES

Allow assessment of potential future funding need.

Additional Detail to the above outcome is:

A key deliverable will be a report to estimate the capital and operational investment requirements for each new measure, plus the requirement for capture and analysis of sampling data.

No change to PC21 FD project outcomes.

COMMENTARY ON MATERIAL CHANGES TO PROJECT OUTCOMES

N/A

UR MONITORING EXPECTATIONS

Progress on the delivery of this objective will be monitored and reported on through the annual cost and performance report process as a minimum. In addition, the UR expects NI Water to:

- Develop and submit a programme for delivery based on the transposition and implementation requirements.
- Engage and seek DWI support for the proposals through ongoing engagement.
- Engage with UR staff on the timing of additional engagement, reviews and the determination of any additional work which will flow from the successful completion of the development stages.

HOW UR MONITORING EXPECTATIONS HAVE BEEN FULFILLED

- **Develop and submit a programme for delivery based on the transposition and implementation requirements.**
  No decision has been made on the transposition of the DW Recast Directive into new Drinking Water Regulations in Northern Ireland therefore a programme for delivery cannot be developed at this stage. This will be a Ministerial (NI Executive) decision.
- **Engage and seek DWI support for the proposals through ongoing engagement.**
  Ongoing engagement is in place with the DWI. Updates on the transposition of the DW Recast Directive into new Drinking Water Regulations in Northern Ireland or the development of new Drinking Water Regulations in Northern Ireland aligned to the Recast Directive are provided to NI Water by the DWI through the following DWI/MIW meetings:
  - DWI/NIW Compliance Programmes Review meeting – see minutes of meeting 26/01/2023.

    
    DWI NIW Compliance Programı
  - DWI/NIW Asset Delivery Directorate Triannual Meeting – see minutes of meeting 20/02/2023.

    
    DWI NIW ADD Triannual Meeting -2(

  Update May 2024
  No change.
  Continued engagement and updates by the DWI via the DWI/NIW Compliance Programmes Review meeting DWI/NIW Engineering & Sustainability Directorate Triannual Meeting
  - **DWI/NIW Compliance Programmes Review meeting – see minutes of meeting 01/02/2024.**

    
    DWI NIW Compliance Programı
  - **DWI/NIW Asset Delivery Directorate Triannual Meeting – see minutes of meeting 24/10/2023.**
    (Note directorate name change to Engineering & Sustainability)

    
    DWI NIW ADD Triannual Meeting -24
- **Engage with UR staff on the timing of additional engagement, reviews and the determination of any additional work which will flow from the successful completion of the development stages.**
  N/A until there is a decision on the requirement for transposition into new Drinking Water Regulations in Northern Ireland or that new Drinking Water Regulations, aligned to the Recast Directive, will be issued.

PROGRAMME

See Master DO Programme v1 dated 30/06/24.

KEY MILESTONES FOR DEVELOPMENT OBJECTIVE

Description Key PC21 FD DO Milestones	FD21 Annex T Milestone Target Date	Status Vs FD21 Target	Current Milestone Target Date	Status Vs Current Target	Commentary on Material Milestone Date Changes ***AND / OR*** Reasons for any material Delay
Unable to quantify milestones until such times that the DWD Recast is adopted into UK legislation (or otherwise)	Blank	Blank	N/A	N/A	Original milestone replaced by individual milestones below.
Submission of programme to UR	N/A	N/A	N/A	N/A	AIR22 had Jun22. Individual programme superseded by Master DO Programme
Provide update in 2022 Annual Information Return	N/A	N/A	AIR 22	Complete	For evidence see AIR22 (Table 47, Section 4 commentary)
Provide update in 2023 Annual Information Return	N/A	N/A	AIR23	Complete	For evidence see AIR23 (Table 47, Section 4 commentary)
Provide update in 2024 Annual information return	N/A	N/A	AIR 24	Complete	For evidence see AIR24 (Table 47, Section 4 commentary)
Provide update in 2025 Annual information return	N/A	N/A	AIR 25	On Target	To be completed in 2025 in line with 2025 Annual Information return
Undertake a review in December 2025	N/A	N/A	Dec 2025	On target	Decision point on status of DO to inform PC27 BP
KEY MILESTONES FOR SOLUTION INVESTMENT					
Unable to quantify milestones until such times that the	Blank	Blank	N/A	N/A	N/A

DWD Recast is adopted into UK legislation (or otherwise)					

EXPENDITURE [See Also Table DO1 below]

FD21 Annex T Estimated Total Cost of DO (2018/19 prices)	Forecast Cost of DO (Nominal prices)	Commentary on Material Total Cost Changes for DO
£0.283m	£0.339m	Extent of need not yet known and cannot be predicted
PC21 FD Estimated Cost of Solution (2018/19 prices)	**Forecast Cost of Solution (Nominal prices)**	**Commentary on Material Solution Cost Changes**
TBC	TBC	Any solution is likely for PC27 implementation at the earliest.

ACTIVITY COMPLETED TO DATE AND OUTCOMES TO DATE (MARCH 2024)

Background

- On 1 February 2018, the European Commission published a proposal for a recast of the Directive on the quality of water intended for human consumption (the Drinking Water Directive).
- On 16 December 2020, the European Parliament formally adopted the revised Drinking Water Directive. The directive came into force on 12 January 2021. Member States have two years to transpose it into national legislation, by January 2023. Transposition includes implementation timescales, where appropriate.

Key features of the revised Directive are:

- Reinforced drinking water quality standards, some of which are more stringent than WHO recommendations.
- Tackling emerging pollutants, such as endocrine disruptors and PFAS, as well as microplastics.
- A preventive approach favouring actions to reduce pollution at source by introducing the DWSP risk-based approach.
- Measures to ensure better access to water, particularly for vulnerable and marginalised groups.
- Measures to promote tap water, including in public spaces and restaurants, to reduce (plastic) bottle consumption.
- Harmonisation of the quality standards for materials and products in contact with water, including a reinforcement of the limit value for lead.
- Measures to reduce water leakages and to increase transparency of the sector.

Brexit / EU Exit – implications to transposition of the EU Drinking Water Directive

- The UK left the EU on 31 January 2020.
- The transition period, during which nothing changed, ended on 31 December 2020.
- The rules governing the new relationship between the EU and UK took effect on 1 January 2021.
- The Drinking Water Directive Recast came into effect on 12 January 2021, after the UK had left the EU.

Devolved Administrations

- Defra has made no decision on whether the Drinking Water Directive Recast

changes will be implemented in the UK (England & Wales) through revised drinking water regulations.
  - Defra may determine to implement the regulatory changes either in whole or partially (e.g. drinking water standards only)
  - There is no pressure to meet EU timeframe for transposition to revise Drinking Water Regulations.
- **Update May 2023**
  A Drinking Water Quality - Advisory Standards Board is to be set up. The Standards Board will use science and evidence to make recommendations to Ministers for future updates to standards where there are new and emerging contaminants, updated toxicological data and other areas where standards may be improved in order to protect public health and improve confidence in drinking water. The Standards Board will operate in a 5 yearly legislative review cycle.
- **Update May 2024**
  A Drinking Water Quality - Advisory Standards Board has been set up.

- The Scottish Government have determined to remain aligned to EU Regulations
  - Scotland is working towards new Public Water Supply Regulations to be in place for January 2023.
- **Update May 2023**
  New Public Water Supply Regulations in Scotland came into force on 1 January 2023 [The Public Water Supplies (Scotland) Amendment Regulations 2022].
- **Update May 2024**
  No change.

- Northern Ireland – Ireland / Northern Ireland Protocol - Northern Ireland will remain aligned to a limited set of rules related to the EU's Single Market.
  - No decision has been made on whether NI will transpose the Drinking Water Directive in whole or part into Regulations.
- **Update May 2023**
  There is no change to this position.
- **Update May 2024**
  There is no change to this position.

The Protocol potentially has implications for potable water used in food production and the trade of goods on the single market – i.e. water used for food production will need to comply with EU legislation. Food Standards regulations may therefore require that the water quality standards of the EU Drinking water Directive are transposed into new Drinking Water Regulations in Northern Ireland. If the protocol is withdrawn then the requirement for alignment to the set of rules related to the EU's Single Market and therefore Food Standards Regulations would no longer apply and as such there would no longer be a requirement to transpose DW directive.

PLANNED NEXT STEPS FOR DELIVERY

Northern Ireland - Next steps & progress

To date no decision has been made on whether Northern Ireland will transpose the Drinking Water Directive Recast in whole or part into Regulations. The DWI have met on a number of occasions with DAERA Policy to consider Transposition of the drinking water quality aspects of EU Drinking Water Directive Recast in line with the Protocol and Food Standards requirements. The DWI have provided a briefing note to the DEARA Minister and have noted that they have provided a submission to the DAERA Minister in May 2022, noting that they are working on the water quality aspects of the Recast directive.

The DWI have provided updates on their work to date to NI Water through routine DWI/NIW regulatory meetings, thereby facilitating a close watching brief by NI Water on the potential for transposition or new drinking water regulations in line with the Recast Directive. An NI Water workshop with the DWI was held on 13 June 2022.

The timeline for implementation of new drinking water regulations may not align with the business planning PC cycle and as such any increase in expenditure that may result will have to be incorporated into NI Water budgets outside of the current PC21 period. NI Water have noted to the DWI that changes in relation to transposition of the recast directive or new drinking water regulations will need to be factored into the PC27 Determination.

NI Water has undertaken an initial review of the potential water quality parameter and monitoring changes to meet the requirements of the Drinking Water Directive Recast in respect of regulatory and operational sampling and analysis including:

- New parameters
- Revised PCVs
- Revised sampling frequencies

See next section and Annex 1.

The DWR team made a presentation to NI Water EC in November 2021 on the initial assessment carried out on the DWD Recast.

NI Water have liaised with Scottish Water on the work they have undertaken on the transposition into new Public Supply Regulations in Scotland. A meeting was held via MS Teams on 10 May 2022. Further liaison will be undertaken as necessary with Scottish Water as we continue to review and assess the potential impacts of the regulatory changes to parameters, monitoring frequency and analysis through new drinking water regulations.

Surveys are being undertaken for a number of the potential new parameters to understand the risk for compliance against the regulatory limit as set in the Recast Directive. This will help to feed into any work required for this development objective to assess strategic cost estimates should there be a decision to issue new drinking water regulations in line with the Recast Directive.

Overview of changes / impacts – parameters and monitoring requirements

A number of new parameters have been included e.g. PFAS & watch list emerging substances of concern such as endocrine disruptors, microplastics. This will have implications for new analysis method development and laboratory capacity requirements.

a. New parameters

Bisphenol A	Microcystin-LR	Nonylphenol (watchlist only)
Chlorate	Sum of PFAs	Beta-estradiol (watchlist only)
Chlorite	Somatic coliphages	
HAA	Uranium	

Nonylphenol and beta-estradiol are watch list parameters and not regulatory compliance parameters. The wording is that they “should be added to the watch list to be established by the Commission pursuant to this Directive”.

b. Changes to parameters / monitoring requirements

- Changes to minimum frequency of sampling and analysis for some parameters, which will result in an associate increase in costs.
- New parameters will require new instrumentation and method development, which will result in an associate increase in costs.
- Lead – the regulatory standard will remain at 10ug/l until 2036 and then reduce to 5ug/l. There will be a requirement to work towards the reduced standard over this period. This will require increased capital expenditure in lead pipe replacements and increased operational expenditure for Orthophosphoric acid dosing for plumbosolvency control. Policy changes in respect of dealing with the customer side lead pipe would be required as compliance for lead in drinking water is at the point of use.
- Turbidity at WTW – new operational monitoring requirement. May require capital expenditure for accredited/validated online turbidity monitoring for final water going into supply. There will also be an ongoing maintenance cost and cost associated with instrumentation replacement schedules.
- Chlorate and chlorite – potential for capital expenditure for additional storage tanks and improved management of the age of sodium hypochlorite to reduce the risk for formation of these compounds through hypochlorite degradation.
- More emphasis on risk assessment approach (DWSP – source to tap risk management). This may provide an opportunity to reduce frequency of sampling and analysis for some parameters based on actual results and risk assessments.

It is agreed that the cost, spend on the DO should remain. This is to ensure that if there is a decision to transpose the Recast DWD, or to issue new Drinking Water Regulations that align with the Recast DWD water quality aspects, that this money would be available to carry out strategic cost estimates for:

- Cost impacts associated with sampling, monitoring, accreditation and reporting.
- Capital cost impacts on the laboratory.
- Capital cost impact of new operational monitoring requirement.
- Capital cost impacts associated with achieving compliance with new and revised regulatory standards.

PROPOSED MAINTENANCE EXPENDITURE / ADDITIONAL OPEX from CAPEX
N/A

IMPACT OF SCOPE / PROGRAMME CHANGES ON CAPITAL DELIVERY / OUTPUTS PROGRAMME
N/A Extent of need not yet known and cannot be predicted. Any solution is likely for PC27 implementation at the earliest.

IMPACTS ON CAPITAL OUTPUTS PROGRAMME LINKED TO TABLES 40, 40a & 40b			
Links to Tables Completed	Yes ☐	No ☒	This DO has no link to the PC21 plan outputs.

RISKS & ISSUES ASSOCIATED WITH THIS DEVELOPMENT OBJECTIVE

To date no decision has been made on whether Northern Ireland will transpose the Drinking Water Directive Recast in whole or part into new Drinking Water Regulations. Due to this it is not possible to move any further forward with this Development Objective. There is a risk that the required capital costs to meet the requirements of new drinking water regulations are not captured for PC27 planning.
WIDER BENEFITS OF THIS DEVELOPMENT OBJECTIVE
New Drinking Water Regulations in Northern Ireland aligned to the Drinking Water Recast would ensure that drinking water standards in Northern Ireland would be comparable to those in the EU Member States and in Scotland.
LINKAGE TO OTHER DEVELOPMENT OBJECTIVES
There are no current links to any other Development Objectives.

Development Objective – Expenditure Summary

There has been no expenditure to date.

Table DO1 Expenditure on Development Objective (Nominal cost base)

Category	Spend to End March 2024 (£m)	Anticipated Future Spend (£m)	Anticipated Total DO Spend (£m)	Comment
Consultancy	None	£0.339m	£0.339m	Revised figure is indexed using the March 24 OBR forecast (from £0.320m AIR23)
Totals	**£0**	**£0.339m**	**£0.339m**	
PC21 Projected Spend on Development Objective			**£0.339m**	

Annex 1 - Parameter changes analysis – assumptions & risks

	2017	Recast			
Parameter	**Concentration or Value (maximum)**	**Concentration or Value (maximum)**	**Units of Measurement**	**Comment on parameter change**	**Risk / Action**
Enterococci	0	0	number/100ml	Change to frequency of monitoring (increased to frequency of coliforms) - core parameter - must always be monitored at the minimum frequency.	Increased numbers of samples – sampling & analysis resource impacts.
Escherichia coli (E. coli)	0	0	number/100ml	No change - core parameter - must always be monitored at the minimum frequency.	
Total coliforms	0	-	number/100ml	No change - core parameter - must always be monitored at the minimum frequency.	
Antimony	5	10	µ g/l	**Increase in PCV** (Note WHO recommended increase to 20ug/l).	Method would require adjustment to account for revised PCV.
Bisphenol A		2.5	ug/l	New parameter - endocrine disrupting compound.	Method development. – in house analysis would require new instrumentation and method development along with additional analytical resource. Expected to be low risk in drinking water. Survey being undertaken across all WTW sites to determine potential risk in raw waters.

	2017	Recast			
Parameter	**Concentration or Value (maximum)**	**Concentration or Value (maximum)**	**Units of Measurement**	**Comment on parameter change**	**Risk / Action**
Chlorate		0.25	mg/l	New parameters Chlorate & Chlorite are predominantly disinfection by-products from hypochlorite degradation. Action may be required to reduce risk of formation to meet compliance - chemical procurement (chemical strength, volume) and storage (e.g. temperature control, prevention of exposure to light and minimisation of storage time). Note: WHO proposed a value of 0.7ug/l (3 x greater than level in the recast). To be considered further: - The wording in the recast DWD states "A parametric value of 0.70 mg/l shall be applied where a disinfection method that generates chlorate, in particular chlorine dioxide, is used for disinfection of water intended for human consumption." As hypochlorite-based disinfection generates	Method development – in house analysis would require new instrumentation or changes to current instrumentation and method development along with additional analytical resource. Assessment of risk from current procurement and storage of sodium hypochlorite will be required. Survey being undertaken across all WTW sites to determine potential risk / levels of chlorate & chlorite.
Chlorite		0.25	mg/l		

	2017	Recast			
Parameter	**Concentration or Value (maximum)**	**Concentration or Value (maximum)**	**Units of Measurement**	**Comment on parameter change**	**Risk / Action**
				chlorate will the DWI seek to introduce the standard at 250µg/l or will there be a relaxation on this for sites where we use sodium hypochlorite or on-site electrolytic chlorination.	
Chromium	50	25	µ g/l	The parametric value of 25 µg/l shall be met, at the latest, by 12 January 2036. The parametric value for chromium until that date shall be 50 µg/l.	Method would require adjustment to account for revised PCV. Expected to be low risk to meet revised standard. Potential for leaching from customers internal fittings. Method would require adjustment to account for revised PCV.

	2017	Recast			
Parameter	**Concentration or Value (maximum)**	**Concentration or Value (maximum)**	**Units of Measurement**	**Comment on parameter change**	**Risk / Action**
Haloacetic acids (HAAs)	-	60	ug/l	New parameter - disinfection by-product.	Method development – in house analysis would require new instrumentation or changes to current instrumentation and method development along with additional analytical resource. Survey to be undertaken across all sites to determine potential risk. Assessment of risk – PC21 pilot plant treatability studies for DBPs, including HAAs to inform PC27.
Lead	10	5	µ g/l	The parametric value of 5 µg/l shall be met, at the latest, by 12 January 2036. The parametric value for lead until that date shall be 10 µg/l. There will be a requirement to work towards the reduced standard over this period.	Compliance will still be at the customer tap – risk from customer side lead. Expected decrease in compliance with the PCV. Method would require adjustment to account for revised PCV.
Microcystin-LR	-	1	ug/l	New parameter. This parameter shall be measured only in the event of potential blooms in source water.	Method development. – in house analysis would require new instrumentation and method development along with additional analytical resource. Expected to be low risk to meet

Parameter	2017 Concentration or Value (maximum)	Recast Concentration or Value (maximum)	Units of Measurement	Comment on parameter change	Risk / Action
					PCV. Note: we have been measuring this operationally at some sites with algae risk in the raw water.
PFAS Total	-	0.5	ug/l	New parameter. 'PFAS Total' means the totality of per- and polyfluoroalkyl substances. This parametric value shall only apply once technical guidelines for monitoring this parameter are developed in accordance with Article 13(7) i.e. By 12 January 2024, the Commission shall establish technical guidelines. Member States may then decide to use either one or both of the parameters 'PFAS Total' or 'Sum of PFAS'. Note: We have undertaken 2 annual raw water surveys to assess risk - all low-level risk.	Industry method development required – very few labs currently with accreditation for the range of PFAS compounds to be tested. – in house analysis would require new instrumentation and method development along with additional analytical resource. Unknown what the frequency of monitoring required will be – risk based or set frequency? - Annual surveys being undertaken to assess risk based on DWI guidance and Recast Directive parameters – all results show low risk. Approach agreed with DWI and results shared with DWI.
Sum of PFAS	-	0.1	ug/l	New parameter. 'Sum of PFAS' means the sum of per- and polyfluoroalkyl substances considered a concern as regards water intended for human consumption listed in point 3 of Part B of Annex III.	

	2017	Recast			
Parameter	**Concentration or Value (maximum)**	**Concentration or Value (maximum)**	**Units of Measurement**	**Comment on parameter change**	**Risk / Action**
				This is a subset of 'PFAS Total' substances. Note – above PFAS Total – may only be required to measure PFAS Total or Sum of PFAS.	
Turbidity (WTW) - operational monitoring and none to exceed 1 NTU	1	0.3NTU in 95% of samples and none to exceed 1 NTU	NTU	Change in monitoring requirement. For WTWs with >10,000m3 per day into supply continuous sampling required e.g. online monitoring. Capital expenditure requirement - Will require turbidity monitor on water going into supply and requirements for calibration / accreditation / validation. Note: would be expected that a daily sample for laboratory analysis will still be required.	Capital expenditure – accredited/validated online turbidity monitoring post CWT (water into supply). Will apply based on volume of water into supply (i.e. sites currently on daily monitoring).
Turbidity (Customer tap)	4	Acceptable to consumers and no abnormal change	NTU	Change to PCV - This potentially has implications for customer complaints of discoloured water. Note: national requirements may still require a parametric value for analysis purposes.	Need to understand what the trigger will be e.g. number / %age of complaints per population received. Will there still be a national PCV?

	2017	Recast			
Parameter	**Concentration or Value (maximum)**	**Concentration or Value (maximum)**	**Units of Measurement**	**Comment on parameter change**	**Risk / Action**
Selenium	10	20	µ g/l	Increase in PCV (Note WHO recommended increase to 40ug/l).	Method would require adjustment to account for revised PCV.
Uranium		30	ug/l	New parameter.	Expected to be low risk to meet PCV.
Colour	20	Acceptable to consumers and no abnormal change	mg/l Pt/Co	Change to PCV - This potentially has implications for customer complaints of discoloured water . Note: national requirements may still require a parametric value for analysis / monitoring purposes.	Need to understand what the trigger will be e.g. number / %age of complaints per population received. Will there still be a national PCV?
Oxidisability		5	mg/l O2	New parameter. This parameter need not be measured if the parameter TOC is analysed. Note: we analyse TOC currently so unlikely to be required.	No action expected.
Colony count 37o C	No abnormal change	-		No longer in the DW directive - could be maintained in Regulations as a National Requirement	Will there still be a national PCV?
Tetrachloromethane	3	-	µ g/l	No longer in the DW directive - could be maintained in Regulations as a National Requirement	Will there still be a national PCV?

	2017	Recast			
Parameter	**Concentration or Value (maximum)**	**Concentration or Value (maximum)**	**Units of Measurement**	**Comment on parameter change**	**Risk / Action**
Legionella	-	< 1 000	CFU/l	This potentially could be covered by current monitoring programmes (e.g. HSE NI).	Need to understand who would be required to undertake this – can it be via HSE as current.
Somatic coliphages	-	50 (for raw water)	Plaque Forming Units (PFU)/100 ml	New parameter. This parameter shall be measured if the risk assessment indicates that it is appropriate to do so. If it is found in raw water at concentrations > 50 PFU/100 ml, it should be analysed after steps of the treatment process in order to determine log removal by the barriers in place and to assess whether the risk of a breakthrough of pathogenic viruses is sufficiently under control.	Method development if risk assessment shows this is a risk. Increased laboratory resource if analysis required - No known capability for this testing currently available in UK water industry. PC27 treatability – assessment of log removal (similar to assessment for Crypto risk in treatability studies).

DEVELOPMENT OBJECTIVE [DO]		
Ref	Development Objective	Sub-Programme
05	**Refresh of DG2 Register**	**08z**

As noted in our PC21 Mid-Term Review submission, section 3.1.2, work on this development output is complete and it is now considered closed.

DEVELOPMENT OBJECTIVE [DO]		
Ref	Development Objective	Sub-Programme
06	**Targeted Mains Renewals in High Leakage Areas**	**08z**

GOVERNANCE		
Directorate	**SRO**	**Project Lead**
C&OD	[redacted]	[redacted]

REASON DEVELOPMENT OBJECTIVE IS NECESSARY

Analysis of existing leakage levels are indicating that the projected leakage reduction targets are becoming increasingly difficult to achieve. The Natural of Rise (NRR) has increased over recent years and there is not clarity on whether it is as a result of ongoing deterioration of the distribution network, the impact of weather or even a combination of both.

The PC21 projected CAPEX for mains renewals is £82.89m, which equates to 0.41% of the network per year. This projected capex for mains renewal is required to maintain stable serviceability across the network for customer contacts, unplanned supply interruptions, low water pressure and drinking water quality, however it does not include NRR as a driver. As such it does not address the risk associated with a non-stable network in relation to NRR.

As achieving the leakage reduction target continues to prove challenging in PC15, NI Water is very keen to explore the use of targeted mains renewals as a method to have a more stable NRR. A £10m budget has been suggested for a mains renewal programme to assess the impact on addressing the NRR.

A significant element of our bursts and leakage is on PVC and asbestos cement mains. NIW has 10,500 km of PVC and 1,200 km of asbestos cement mains which is an abnormally high proportion of these materials compared to other Water UK companies. The NI Water PVC mains have an average age of 42 years and the asbestos mains have an average age of 61 years.

DEVELOPMENT OBJECTIVE TO CONFIRM SOLUTION SPEND IN PC21 &/or PC27

PC21 only ☐	**PC27 only ☐**	**PC21 and PC27 ☒**

PROJECT SCOPE

A project will be required to develop a best practice approach and methodology for targeted mains renewal to address leakage issues as follows:

- Utilise current work activity outputs undertaken as a part of the Leakage Programme to develop the best practice approach and methodology to target mains renewal to counter the NRR and leakage in targeted DMAs. Utilise guidance documents such as UKWIR's "The Impact of Burst-Driven Mains Renewals on Network Leakage Performance".
- Develop a programme of work for the renewal of specific mains in those targeted DMAs.
- Monitor the benefits to NRR and leakage, post renewal, as well as other non NRR and leakage benefits (financial and non-financial). Undertake an overall assessment of TOTEX benefits and payback periods for these completed mains renewals to help inform better long term planning decisions.
- Utilise this NRR mains renewal methodology, as a trial throughout the PC21 period, to understand whether such a programme of work has proven benefits that can be subsequently used as the basis for an enhanced programme in PC27.

The Development Objective costs will be a portion of the IPAC project **2576 – AD Asset Strategy Water Asset Performance Modelling**. An allowance of £100k has been made for 'Update to WIMM' and an estimated **£30k** of this will be apportioned to developing an approach and methodology for Targeted Mains Renewals in High Leakage Areas.

The 'Solution Investment' costs estimates are a **£10m** portion of the overall water mains rehabilitation costs within **2296 – Watermains Rehabilitation** (total of £92.9m Business Plan).

No change to scope.

COMMENTARY ON MATERIAL CHANGES TO SCOPE

N/A

PROJECT OUTCOMES

- Help address the increasing NRR and achieve target leakage reductions
- Reduce interruptions to supply, improve customer service delivery and reduce customer minutes lost whilst improving the reportable DG3 Interruptions to Supply figures

A key deliverable is a best practice methodology and a programme of work for the renewal of specific mains in targeted DMAs.

COMMENTARY ON MATERIAL CHANGES TO PROJECT OUTCOMES

N/A

UR MONITORING EXPECTATIONS

Progress on the delivery of this objective will be monitored and reported on through the annual cost and performance report process as a minimum. In addition the UR expects NI Water to:

- Develop and submit an updated programme for the delivery of this objective.
- Engage with UR staff on the timing of additional engagement, reviews and the determination of any outcomes flowing from the successful completion of the development stages. Provision of a copy of the best practice approach/methodology and an update on how it has been applied to identify and prioritise mains renewals is likely to be required as part of the engagement process.
- Engage with UR staff on the implications for PC21 Leakage targets if required.

HOW UR MONITORING EXPECTATIONS HAVE BEEN FULFILLED

Initial Audit was completed after the conclusion of PC21 year 1, in June 2022.
Update presentation was provided to UR on 18th October 2022.

PROGRAMME

See Master DO Programme v1 dated 30/06/24.

KEY MILESTONES FOR DEVELOPMENT OBJECTIVE

Description Key PC21 FD DO Milestones	**FD21 Annex T Milestone Target Date**	**Status Vs FD21 Target**	**Current Milestone Target Date**	**Status Vs Current Target**	**Commentary on Material Milestone Date Changes *AND / OR* Reasons for any material Delay**
Submit updated program me to	N/A	N/A	Mar 27	On target	Programme updates are provided to the UR with each

UR.					AIR return
Develop the best practice approach and methodology to target mains renewal to counter the NRR and leakage in targeted DMAs	Jun 20	N/A	Sep 22	Complete	Outline approach developed to identify mains sections in three batches and issued to AD. Presented to the UR in Oct 22. Review by RPS determines that NIW approach is consistent with UKWIR guidance. NOTE - The original date proposed in Annex T (Jun 20) was unachievable as the FD was not available at this time. Therefore 'N/A' has been entered against Jun 20.
Application of methodology as part of the overall update of WIIM, to develop work packages of water mains rehabilitation schemes for construction.	Mar 21	N/A	Oct 23	Delayed	Development of further work packages to be in line with NIW's outline approach, being consistent with UKWIR guidance, in consideration of RPS review recommendations and any post-benefits analysis undertaken. Update of WIIM to be linked with outcome of benefit analysis. Delay due to construction timelines. NOTE - The original date proposed in

					Annex T (Mar 21) was unachievable as the FD was not available at this time. Therefore 'N/A' has been entered against Mar 21. In AIR22 it was anticipated that this milestone would be completed by Sept 22, however delays in the construction timeline and the requirement for the DMAs to 'settle down' and post-construction benefits analysis has resulted in a forecast date of Oct 23 Batch 4 was issued to the Asset Delivery team for assessment and inclusion in work packages for the 24/25. WIIM4 is currently under development to inform the creation of work packages for water mains rehabilitation. The WIIM4 methodology update will review analysis undertaken for selection of Batches 1 to 4

					and the post-construction benefit analysis as it progresses. Post-construction benefit analysis has commenced for DMAs identified having all packages completed.
Confirm Outline Capital Submission Projects List for PC27			June 25	On Target	To inform PC27 Business Plan
Confirm if this DO is continuing for PC27			June 25	On Target	Decision point on status of DO to inform PC27 BP
KEY MILESTONES FOR SOLUTION INVESTMENT					
Issue first batch of 'Targeted Mains Renewals in High Leakage Areas' schemes (as part of update to WIMM) ready for issue to contractors.	Mar 21	N/A	Mar 22	Complete	NOTE - The original date proposed in Annex T (Mar 21) was unachievable as the FD was only being made available and time was required to prepare the methodology and develop the work package of schemes. Therefore 'N/A' has been entered against Mar 21. The first batch of schemes was issued to the Asset Delivery team for inclusion in a work package in Mar 22, and

					hence this milestone was completed in Mar 22.
Undertake benefits analysis and develop further packages of targeted mains renewals during remainder of PC21	N/A	N/A	Mar 27	On Target	Benefits analysis ongoing and to be progressed as packages within DMAs are completed. Further packages to be developed and to consider findings of any benefits analysis undertaken. Initial analysis has been undertaken in regard to targeted mains renewals AIR24: Post-construction benefit analysis has commenced for DMAs identified having all packages completed. Findings are limited due to the short post-construction time period elapsed. It is anticipated that analysis will become more meaningful after the 3rd year.

EXPENDITURE [See Also Table DO1 below]

FD21 Annex T Estimated Total Cost of DO (2018/19 prices)	**Forecast Cost of DO (Nominal prices)**	**Commentary on Material Total Cost Changes for DO**
£0.03m	£0.038m	Revised figure is £0.038m indexed using the March 24 OBR forecast (from £0.039 AIR23). Costs include the application of an efficiency factor to the FD figure. Cost to date is approx. £0.005m for consultancy review of outline

		approach with minimal BAU resources being used to identify potential schemes. Remaining costs to undertake ongoing benefits analysis.
PC21 FD Estimated Cost of Solution (2018/19 prices)	**Forecast Cost of Solution (Nominal prices)**	**Commentary on Material Solution Cost Changes**
£10m	£12.76m	FD indexed using the March 24 OBR forecast (from £12.91m AIR23). Costs include the application of an efficiency factor to the FD figure.

ACTIVITY COMPLETED TO DATE AND OUTCOMES TO DATE (MARCH 2024)

Key milestone target dates have been impacted as a result of a delay in the delivery of the Final Determination and the issuing of appropriate tenders to award.
Outline approach has been developed to specifically target renewal of PVC and AC mains disproportionally contributing to leakage within DMAs and not currently identified via traditional WIMM methodologies. RPS Group Consultants have reviewed NI Water's outline approach which identified mains targeted for renewal and have determined the NIW approach to be consistent with UKWIR guidance.

A review of this approach was undertaken by RPS Group Consultants regarding industry related studies and available guidance documentation with the development of a best practice methodology for NI Water.
Utilising the outline approach, sections of main have been identified, prioritised and submitted to the Asset Delivery team for review and programming into existing proposed work package areas for construction.

The mains replacement programme, of PVC & AC mains sections with high NRR and leakage, was issued in three batches to the Asset Delivery team. Asset Delivery reviewed each corresponding batch to determine delivery packages, costings and delivery timescales. The scope of work within each of the three batches, and progress of work under each batch, is shown in the table below.

			Completed schemes	
Batch No.	**No of mains**	**Cost**	**No of mains**	**Cost**
1	32	£2,945k	30	£2,571k
2	17	£1,386k	19	£1,228k
3	31	£1,828k	23	£1,421k
Totals	**80**	**£6,159k**	**72**	**£5,220k**

Post-benefits analysis commenced for 3nr DMAs during AIR23 where all sections of mains identified for renewal have been constructed. Dates of eligibility for benefits analysis were September 2022, December 2022, and February 2023.
Post-benefits analysis continues for the 3nr DMAs completed during AIR23 and have commenced for 11nr further DMAs from the date when construction confirmed as complete during AIR24.

PLANNED NEXT STEPS FOR DELIVERY

Benefits analysis will continue as mains sections are completed within DMAs. It is expected that this will be an ongoing iterative analysis process with the determination of full benefits only likely to become apparent after several years.

Batch 4 of leakage targeted mains for renewal has been submitted to Asset Delivery for review and for issuing into work package. NI Water is developing the WIIM4 methodology in line with NIW's outline approach, being consistent with UKWIR guidance, in consideration of RPS review recommendations and any post-benefits analysis undertaken.

The identification of further batches will consider the iterative findings of the ongoing benefits analysis.

An updated programme to the UR was submitted in September 2023 as part of the Mid Term Review.

PROPOSED MAINTENANCE EXPENDITURE / ADDITIONAL OPEX from CAPEX

N/A

IMPACT OF SCOPE / PROGRAMME CHANGES ON CAPITAL DELIVERY / OUTPUTS PROGRAMME

None

IMPACTS ON CAPITAL OUTPUTS PROGRAMME LINKED TO TABLES 40, 40a & 40b

Links to Tables Completed	Yes ☒	No ☐	Comments – Leakage packages are primarily JI228 (WP1), JI270 (WP2) and JI279 (WP3)

RISKS & ISSUES ASSOCIATED WITH THIS DEVELOPMENT OBJECTIVE

Although construction and delivery costs continue to increase, it is proposed to adhere to the PC21 FD Estimated Cost of Solution of £10,000k (adjusted to nominal prices).
Risks include

- Constrained resources to deliver all the planned schemes and packages during PC21

WIDER BENEFITS OF THIS DEVELOPMENT OBJECTIVE

Future reduction in leakage resulting in lower abstraction rates, less use of energy and materials and wider environmental benefits

LINKAGE TO OTHER DEVELOPMENT OBJECTIVES

It is understood there is no linkage between this Development Objective (Section 6) and any other Development Output within Table 47.

Development Objective – Expenditure Summary

Table DO1 Expenditure on Development Objective (Nominal Prices)

Category	Spend to End March 2023 (£m)	Anticipated Future Spend (£m)	Anticipated Total DO Spend (£m)	Comment
Civil				
M&E				
Materials / Equipment				
NIE				
Lands				
Site Investigation				
Consultancy	£0.005m	£0.033m	£0.038m	Note the £0.038m is the FD £0.03m adjusted to nominal. Includes efficiency factor on FD figure.
Pilot Studies				
Add Others as necessary				
Totals	**£0.005m**	**£0.033m**	**£0.038m**	
PC21 Projected Spend on Development Objective			**£0.038m**	

DEVELOPMENT OBJECTIVE [DO]		
Ref	Development Objective	Sub-Programme
07	**Leakage Innovation**	**09z**

GOVERNANCE		
Directorate	**SRO**	**Project Lead**
C&OD	[redacted]	[redacted]

REASON DEVELOPMENT OBJECTIVE IS NECESSARY

Leakage detection and reduction has become more challenging in recent years, particularly with an increasing Natural Rate of Rise. NI Water has introduced initiatives such as the CALM network training facility, transient logging, and researching and trialling new techniques such as satellite imagery, use of encapsulation repair fittings and fast logging. However, NI Water must keep up with technological advances in leakage detection equipment and methods if we are to reduce leakage to the Sustainable Economic Level of Leakage (SELL) of 150 Ml/d by the end of PC21.

DEVELOPMENT OBJECTIVE TO CONFIRM SOLUTION SPEND IN PC21 &/or PC27

PC21 only ☐	**PC27 only ☒**	**PC21 and PC27 ☐**

PROJECT SCOPE

The Leakage Innovation methods and equipment are contained within the project 1647 - Leakage Enhancement. The cost estimates are as follows:
Acoustic logging **(£1.68m)**
Satellite imagery **(£1.5m)**
New equipment – GRP/Gas/Drones **(£0.25m)**

No change to scope.

COMMENTARY ON MATERIAL CHANGES TO SCOPE

N/A

PROJECT OUTCOMES

- Assist with locating leaks
- Help to achieve the leakage reduction targets
- More efficient leakage detection
- Improve H&S of leakage operatives

New Technologies Assessment and Recommendations Reports as trials are completed. This report will be produced when work on this Development Objective is completed.

No change to PC21 FD project outcomes.

COMMENTARY ON MATERIAL CHANGES TO PROJECT OUTCOMES

N/A

UR MONITORING EXPECTATIONS

Progress on the delivery of this objective will be monitored and reported on through the annual cost and performance report process as a minimum. In addition, we expect NI Water to:

- Develop and submit an updated programme for the delivery of this objective.
- Engage with UR staff on the timing of additional engagement, reviews and the determination of any outcomes flowing from the successful completion of the development stages. An update on results of the trials and pilot studies is likely to be required as part of the engagement process. Broader engagement on leakage delivery and engagement may also be required.

- Engage with UR staff at the Mid-term Review on the provision of funding for the remainder of PC21, noting UR comments on funding dependency in Annex I of the PC21 determination.
- Engage with UR staff on the implications for PC21 Leakage targets if required.

HOW UR MONITORING EXPECTATIONS HAVE BEEN FULFILLED

- UR advised of progress in annual cost and performance report process
- NIW presented update to UR on 18th October 2022
- NIW presented update on 1st June 2023 – see attached presentation given to UR 'DO7 - Leakage Innovation Table 47 Section 7'

PROGRAMME

See Master DO programme v1 dated 30/06/24, which is based on the milestones below.

KEY MILESTONES FOR DEVELOPMENT OBJECTIVE

Description Key PC21 FD DO Milestones	**FD21 Annex T Milestone Target Date**	**Status Vs FD21 Target**	**Current Milestone Target Date**	**Status Vs Current Target**	**Commentary on Material Milestone Date Changes *AND / OR* Reasons for any material Delay**
Submit updated programme to UR	N/A	N/A	Mar 27	On Target	Programme updates are provided to the UR with each AIR return
Output report on current satellite imagery trial	Mar 21	N/A	Mar 27	On Target	NOTE - The original date proposed in Annex T (Mar 21) was unachievable as the FD was not available at this time. Therefore 'N/A' has been entered against Mar 21.
Analysis on satellite imagery trial 1	N/A	N/A	Mar 22	Complete	Evidence to be provided – see attached presentation 'DO7 - AIR Report Leakage Innovation Table 47 Section 7', Slide 4
Satellite imagery trial 2	N/A	N/A	Mar 27	On Target	N/A
Purchase of acoustic and transient loggers	Mar 23	N/A	Mar 27	On Target	NOTE - The original date proposed in Annex T (Mar

					23) was unachievable as DO was to take place over the course of PC21 with ongoing trials, so N/A has been entered against Mar 23.
Investigate and undertake trials on other satellite imagery technologies, with a report on output.	Mar 27	Ongoing	Mar 27	On Target	Continuing to use satellite technology in targeted areas throughout PC21
Purchase of other equipment (thermal camera drones, Ground Penetrating Radar, and private gas detectors) with trials and periodic reports on outputs	Mar 27	Ongoing	Mar 27	On Target	Ongoing trials and use of innovative methods
Update UR on results of trials and pilot studies Engagement meetings to be arranged between UR and NIW in due course	N/A	N/A	Mar 27	On Target	Met with UR on 18/10/22, 01/06/23 and will continue to meet UR throughout PC21
Confirm Outline Capital Submission Projects List for PC27			June 25	On Target	To inform PC27 Business Plan
Confirm if this DO is continuing for PC27			June 25	On Target	Decision point on status of DO to inform PC27 BP
KEY MILESTONES FOR SOLUTION INVESTMENT					
N/A	N/A	N/A	N/A	N/A	N/A

EXPENDITURE [See Also Table DO1 below]

FD21 Annex T Estimated Total Cost of DO (2018/19 prices)	Forecast Cost of DO (Nominal prices)	Commentary on Material Total Cost Changes for DO
£3.43m	£4.375m	FD indexed using the March 24 OBR forecast (from £4.430m AIR23)
PC21 FD Estimated Cost of Solution (2018/19 prices)	**Forecast Cost of Solution (Nominal prices)**	**Commentary on Material Solution Cost Changes**
£0m	£0m	No solution costs within this period

ACTIVITY COMPLETED TO DATE AND OUTCOMES TO DATE (MARCH 2024)

Output report on current satellite imagery trial - Under the PC21 Leakage Strategy key area for Innovation; Satellite imagery leak detection is a strategic solution being explored by NI Water to monitor the water distribution system to facilitate leakage detection. Satellite Imagery provides remote sensing solution for locating leaks on potable water network across any type of terrain by scanning for ground saturation displaying areas of potential leakage. A procurement exercise was undertaken and in January 22 a new contract was established for the use of satellite imagery with an experienced supplier. NIW completed two pilot scans utilising satellite imagery in 2020/21 covering parts of the East, South and West of NI. 2655 Points of Interest (POIs) were generated by the scan, where 1226 POIs were associated defects, giving a leak/POI success rate of 46.2%.

Purchase of acoustic and transient loggers –This key milestone is in effect 'Utilisation of acoustic noise logging to locate and repair leak and review subsequent effectiveness of such technology'. This reflects the ongoing trial nature of this innovation and any goods or services associated with this technology. The target date should be updated to Mar-27 as this key milestone spans the PC21 period.

Acoustic logging is an area of technology within the water industry that is developing with advances in the equipment. In early 2022 NI Water established a procurement mechanism to purchase and trial acoustic logger technology using three leading suppliers of this type of technology. During 2022-23 and beyond, this technology will continue to be tested in order to establish the best performing loggers for NI Water's network.

Hydro Loggers were purchased and used as part of a pilot in 5 DMAs to assess their ability to locate leaks, and how they might be useful as another leakage detection tool. The results of the logger trial using the Hydro Logging technique was proven to be successful and would indicate the technology could provide benefits in a number of aspects of leakage management and detection. They are currently being used in other DMAs as leakage detection equipment. **They continue to be used as a leakage detection tool when locations allow and have had a good degree of success. Hydro Loggers are also being deployed on Rathlin Island, which is a unique closed system, as part of an integrated strategy to deal with leakage and potentially interruptions to supply.**

Acoustic loggers from 2 separate suppliers were purchased and trialled across DMAs in the South and West regions. Work is still ongoing in determining their best use but they have had success in locating leakage and could provide benefits within leakage detection and management. Acoustic loggers will continue to be used through PC21. **Acoustic loggers purchased in 23/24 from a third supplier and have been trialled throughout the year in a range of scenarios and DMA types. Evaluation into the use and success and all acoustic logger types will continue throughout the remainder of**

PC21 with a view to deciding the best application of these as part of leakage detection.

Using NI Water's Professional Services Framework IF180 contract, Atkins were appointed to undertake an acoustic logging trial using FIDO acoustic loggers ('Bugs') to help identify potential leak locations within the Malone Road DMA, in South Belfast and a second adjacent DMA. This trial however proved to be unsuccessful in that we did not see benefits from using this technology compared to other acoustic methods.

Investigate and undertake trials on other satellite imagery technologies, with a report on output - NIW have completed two successful pilot scans utilising satellite imagery in 2020/21. In 2022 NI Water set up a new Satellite Imagery Detection contract and the remaining areas of the network not already captured during the initial pilot phases were scanned. For 2022, 1502 Satellite Point of Interest (POIs) were investigated, with 679 leaks being identified, giving a leak/POI rate of 45**%. During 2023/24, 2 sweeps in the East area were carried out in April, with a further 2 sweeps carried out in the West area in December. To date, 1092 POIs have been investigated, with a total of 538 leaks found, giving a leak/POI rate of 50%. Investigations continue into the remaining POIs.**

Purchase of other equipment (thermal camera drones, Ground Penetrating Radar, and private gas detectors) with trials and periodic reports on outputs - NIW have undertaken trials utilising an innovative non-disruptive repair technique on customer side leakage. The Scheme involves the insertion of a small device called an Aquapea into the water pipe that will repair the leak without the need for excavation within customer properties. Aquapea was trialled where 9 properties (within the East area) with known private side leakage were selected for the pilot; these properties were selected based upon suitability. Overall, the Aquapea had an 11% success rate, which was much lower than expected. Factors impacting upon success included: leak size, supply arrangements (shared supply), leaking joints & pressure etc.

Due to the various types of customer side leaks (in terms of leak size, supply arrangements & complexity etc), the trial demonstrated that Aquapea product would not be a cost effective BAU tool to resolve customer side leaks identified by NIW.

NI Water engaged a light aircraft survey company, APEM, to undertake an aerial survey of 123km of trunk mains in the Fofanny supply zone and identified has having flow audit imbalances.

The survey techniques utilised high resolution visible and near-infrared imagery and advanced imagery analytics to identify points of interest (POIs) regarding leakage. Optimum conditions for surveying are when vegetation is under dry weather stress.
78nr POIs were identified with 15nr leaks detected and repaired. In addition, 682nr cattle troughs were identified. A sample of these are being investigated with the potential of identifying illegal usage or increasing billed consumption.

NI Water has been working with a consultant regarding the use of detection dogs to find leaks. Two dogs have been recently trained and are being utilised for leakage detection in both DMA and trunk main surveys. A review of their detection performance continues however at this stage results are encouraging. Best practice to be developed of when to deploy dogs for leak detection.

PLANNED NEXT STEPS FOR DELIVERY			
As trials of satellite (or similar) imagery technologies, acoustic & transient loggers, and the purchase of other equipment or innovative goods and services progress over time, NI Water will critically evaluate each innovation to determine its benefits.			
PROPOSED MAINTENANCE EXPENDITURE / ADDITIONAL OPEX from CAPEX			
• Upkeep/maintenance of equipment. i.e. logger batteries/replacement loggers • Calibration needed with leakage equipment			
IMPACT OF SCOPE / PROGRAMME CHANGES ON CAPITAL DELIVERY / OUTPUTS PROGRAMME			
No impact of scope/programme on Capital Delivery as no solutions exist.			
IMPACTS ON CAPITAL OUTPUTS PROGRAMME LINKED TO TABLES 40, 40a & 40b			
Links to Tables Completed	Yes ☐	No ☒	N/A as no solutions exist
RISKS & ISSUES ASSOCIATED WITH THIS DEVELOPMENT OBJECTIVE			
• Funding constraints affecting ability to continue purchasing equipment			
WIDER BENEFITS OF THIS DEVELOPMENT OBJECTIVE			
• Future reduction in leakage resulting in lower abstraction rates, less use of energy and materials and wider environmental benefits			
LINKAGE TO OTHER DEVELOPMENT OBJECTIVES			
There is no linkage with other Development Objectives.			

Development Objective – Expenditure Summary

Table DO1 Expenditure on Development Objective (Nominal Prices)

Category	Spend to End March 2024 (£m)	Anticipated Future Spend (£m)	Anticipated Total DO Spend (£m)	Comment
Civil				
M&E				
Materials / Equipment	£ 0.237m	£ 0.855m	£ 1.092m	Existing stock of loggers utilised during trials this year.
NIE				
Lands				
Site Investigation				
Consultancy	£ 1.111m	£ 1.932m	£ 3.043m	Consultancy detection teams and management utilised as trials continue.
Pilot Studies	£ 0.052m	£ 0.188m	£ 0.240m	Initial pilot on satellite imagery complete.
Add Others as necessary				
Totals	**£ 1.400m**	**£ 2.975m**	**£ 4.375m**	
PC21 Projected Spend on Development Objective			**£ 4.375m**	**FD indexed using the March 24 OBR forecast**

DEVELOPMENT OBJECTIVE [DO]		
Ref	Development Objective	Sub-Programme
08	**Smart Networks – ITS Strategy**	**09z**

GOVERNANCE		
Directorate	**SRO**	**Project Lead**
C&OD	[redacted]	[redacted]

REASON DEVELOPMENT OBJECTIVE IS NECESSARY

The needs for Smart Networks were identified as part of our Interruptions to Supply (ITS) Strategy where the primary aim is to improve customer service. Advances in technologies will enable NI Water to quickly identify asset failures and mobilise repair squads, thus minimising the customer impact. This investment will help achieve a CALM network, improve reliability, improve customer response, reduce customer minutes lost and meet our targets for reportable DG3 figures.

DEVELOPMENT OBJECTIVE TO CONFIRM SOLUTION SPEND IN PC21 &/or PC27

PC21 only ☐	PC27 only ☐	PC21 and PC27 ☒

PROJECT SCOPE

We need to develop the scope for Smart Networks, which will involve the installation of various equipment and improving our methods to allow us to monitor in real time and know what is happening across the network. It will involve further roll-out of PMA permanent monitoring, the design and installation of control equipment and remote sensors, improved mains designs and temporary supply points at key sites.

The level of resource needed for the 'Development Objective' at this concept stage is assumed as 1 FTE over the 6 year period (£300k). Depending on the scale of work required and programmes for completion, this level of resource is likely to increase but at this stage the scope is unknown. This resource cost has not been included in any specific IPAC project.

The capital investment for Smart Networks is in IPAC Project 1665 – Smart Networks – ITS Strategy (£7.0m).

No change to scope.

COMMENTARY ON MATERIAL CHANGES TO SCOPE

N/A

PROJECT OUTCOMES

- Improves customer service by monitoring the network to quickly identify and repair asset failures
- Helps to achieve a CALM network
- Helps to meet our targets for reportable DG3 figures.
- Provides better facilities for alternative supplies during major interruptions
- Minimises customer impact by improving the location and operability of valves

New Technology Assessment and Smart Networks Trial Outcomes Report.
Smart Networks Strategy Report. This report will be produced when work on this Development Output is completed.

No change to PC21 FD project outcomes.

COMMENTARY ON MATERIAL CHANGES TO PROJECT OUTCOMES

N/A

UR MONITORING EXPECTATIONS
Progress on the delivery of this objective will be monitored and reported on through the annual cost and performance report process as a minimum. In addition, we expect NI Water to: • Develop and submit an updated programme for the delivery of this objective. • Engage with UR staff on the timing of additional engagement, reviews and the determination of any outcomes flowing from the successful completion of the development stages. An update on results of the studies and trials is likely to be required as part of the engagement process. • Engage with UR staff on the implications for PC21 interruptions to supply targets if required, including the potential for introducing customer minutes lost targets at the PC21 Mid-term Review. Could be part of the decision to inform the PC27 Business Plan.
HOW UR MONITORING EXPECTATIONS HAVE BEEN FULFILLED
• UR advised of progress in annual cost and performance report process. • Presented update to UR on 18th October 2022. • Presented update 1st June 2023.
PROGRAMME
See Master DO Programme v1 dated 30/06/24.
KEY MILESTONES FOR DEVELOPMENT OBJECTIVE

Description Key PC21 FD DO Milestones	**FD21 Annex T Milestone Target Date**	**Status Vs FD21 Target**	**Current Milestone Target Date**	**Status Vs Current Target**	**Commentary on Material Milestone Date Changes *AND / OR* Reasons for any material Delay**
Submit updated programme to UR	N/A	N/A	Mar 27	On Target	Programme updates are provided to the UR with each AIR return
UR Liaison & Engagement	N/A	N/A	Mar 27	On Target	Presentation given to UR on 18th October 2022. Presentation given 1st June 2023 – Please see attached Presentation 'DO8 - UR Smart Networks Table 47 Section 8'
Initial reviews of existing assets and network 'readiness' for Smart Networks. This includes permanent monitoring sites, control equipment, telemetry coverage,	Mar 21	Ongoing	Mar 27	On Target	Ongoing desktop investigations will continue until end of PC21

mains designs and asset standards, and temporary supply points. Prepare Business Case and obtain the necessary approvals.					
Develop packages of Smart Networks capital works and progress a rolling programme of approvals and procurement for the design and construction of the works.	Mar 27	Ongoing	Mar 27	On Target	Ongoing programme throughout rest of PC21
Confirm Outline Capital Submission Projects List for PC27			June 25	On Target	To inform PC27 Business Plan
Confirm if this DO is continuing for PC27			June 25	On Target	Decision point on status of DO to inform PC27 BP
KEY MILESTONES FOR SOLUTION INVESTMENT					
Complete first batch of pilots and testing of Smart Networks technologies, with periodic reviews and output reports.	Mar 23	Complete	Mar 23	Complete	First batch of Improved Control WBS sites completed, please see attached presentation 'DO8 - AIR Report Smart Networks Table 47 Section 8 June 23', slide 17
Complete further batches on a rolling programme	Mar 27	Ongoing	Mar 27	In Progress	Ongoing throughout PC21

EXPENDITURE – See Also Table DO1 below]		
FD21 Annex T Estimated Total Cost of DO (2018/19 prices)	**Forecast Cost of DO (Nominal prices)**	**Commentary on Material Total Cost Changes for DO**
£0.3m (TBC during development) AIR24 re-estimate £0.109m	£0.142m	Revised figure is re-estimate of £0.109m indexed using the March 24 OBR forecast (from £0.118m AIR23)
PC21 FD Estimated Cost of Solution (2018/19 prices)	**Forecast Cost of Solution (Nominal prices)**	**Commentary on Material Solution Cost Changes**
Annex T £7.0m Annex I, Table 6.21 £5.299m	£6.921m	Forecast Cost of Solution based on uplifted budget taken from Mar 2024 OBR – see Annex 1

ACTIVITY COMPLETED TO DATE AND OUTCOMES TO DATE (MARCH 2024)

The activities outlined below have been identified to deliver a smarter network technology to support further reductions in supply interruptions, reducing the number of lost minutes per property, and improving the level of service to our customers:

The needs for Smart Networks were identified as part of our Interruptions to Supply (ITS) Strategy where the primary aim is to improve customer service. We will develop the scope for Smart Networks, which will involve the installation of various innovative equipment and improving our methods to allow us to monitor in real time and know what is happening across the network.

See Annex 1 for yearly costs.

PRV flow / pressure modulation controllers.

Under the Smart Networks/ITS project we aim to prioritise 80 x PRVs which impact customer service e.g., high pressure variation within the Pressure Managed Area (PMA) causing low pressure during the day and high pressure at night.
6 x PRV schemes were installed in 21/22. 12 x PRV schemes were installed in 22/23. 18 x PRV pressure modulation schemes were installed in 23/24.

Telemetry Installations at WBS.

NI Water's current position is there are 234 operational WBS of which 53 WBS still require telemetry to be installed in PC21. **2021/22 – 3 x WBS have been upgraded to telemetry. 2022/23 – 9 x WBS have been upgraded to Telemetry to provide vital network information, with a further 5 sites upgraded that previously only gave basic data. 2023/24 – 9 x WBS have been upgraded to Telemetry to provide vital network information, with a further 3 sites upgraded that previously only gave basic data PC21 total to date of 21 new Telemetry installations, 8 upgrades.**

Improved / Smart controls at WBS.

50 high priority WBSs have been identified for Improved/Smart real time pressure controls where pumped outlet pressure requires better control across the 24-hour period.
9 x WBS have been upgraded to Smart Controls in 21/22. 15 x WBS have been upgraded to Improved/Smart real time pressure controls in 22/23. 12 x WBS have been upgraded to Improved/Smart real time pressure controls in 23/24. PC21 total to date of 36 upgraded sites.

See Annex 2 for WPS prioritisation matrix

Pressure Monitoring of all 3071 PMA's.

A permanently deployed pressure logger is a key component of a Smart Network providing daily pressure data in relation to the properties within that PMA. **Installation work for approx. 120 PPMP connections have been completed in 21/22. 400 PPMP connections have been completed in 22/23. 350 PPMP connections have been completed in 23/24 as part of the Smart Networks budget. The pressure connection have been installed on the water main, and boxes fitted to house the loggers, there has been a delay on deploying the pressure loggers due to a configuration issue affecting battery life, will be progressed in 24/25.**

Additional Fast Fill Points.

Fast fill points are permanent installations on the networks to enable tankers to be filled directly from the water network. We have 11 FFPs at present and during PC21 we aim to provide up to an additional 13 fast fill points for full coverage across each area supplied from the 24 x WTWs. **1 x new FFP installed in 21/22. 3 x new FFPs installed in 22/23. 1 x new FFP installed in 23/24. No further FFPs installed in 23/24, need for additional FFPs being assessed.**

Additional Mobile Pumps.

Mobile pumps significantly reduce the pumping time from tankers to assets such as service reservoirs.
NI Water have purchased 3 x new fast flow mobile pumps in 21/22. 1 x large Mobile Booster Trailer was purchased in 22/23; this has 3 x VSD pumps, which can and has been used for both planned and unplanned interruptions and during major incidents to keep customers in supply. Second large Mobile Booster Trailer purchased in 23/24.

Flow modulation on large users.

Our aim for PC21 was to install a flow modulated PRV on large users where their daily demand profile is causing large flow and pressure fluctuations across the DMA. **2 x flow modulation schemes installed in 23/24.**

Water Quality Monitoring within top DMAs.

Our aim is to install a small number of permanent monitors connected to telemetry as an early warning of water quality problems. **1 x permanent Water Quality Monitoring Installation in 22/23. 3 x temporary water quality monitoring units ordered in 23/24 which could be deployed for surveying or in emergency situations, still awaiting delivery. Ongoing hydraulic analysis being undertaken to identify sites for permanent installations and plan to progress these in 24/25.**

Purchase portable transient loggers.

Loggers allow the identification of transients, and the subsequent resolution which will create a calmer network reducing bursts, interruptions, reducing leakage and water quality issues. **45 units ordered along with 50 new batteries for existing units, awaiting delivery 22/23. These units delivered in 23/24, will continue to assess the need for more logging tools and monitor the expected battery life to determine need for replacement batteries.**

Transient / surge reduction on existing assets.

This is the capital required to reduce transients on up to 13 existing assets following the transient logging and analysis. **1 x Transient/surge reduction scheme in 22/23, this was installed at Ballybracken Doagh WPS to reduce transients that had caused several interruption to supply events. 2 x Transient/surge reduction scheme installed in 23/24.**

Development of a Smart Network Trial & Smart Network Strategy.

This will allow to evaluate the technology in conjunction with data analytics and provide appropriate learnings to develop an overarching Smart Network strategy.

Plan to progress the trial in 2023/24. 2023/24 update – Trial ongoing at Boucher Road, Belfast. Data loggers have been deployed capturing pressure, transients, temperature & flow, Smart PRV installed, all framework leakage acoustic logger suppliers have acoustic loggers deployed in the field and smart data transmission modules will be installed on the existing smart meters allowing remote data transfer of metered customer consumption. Development of integration of these data sources onto one system progressing.

PLANNED NEXT STEPS FOR DELIVERY

The initiatives listed in the 'Activity completed to date and its outcome' table above commenced in 2021/22 and will continue to be delivered throughout the rest of the PC21 period.

PROPOSED MAINTENANCE EXPENDITURE / ADDITIONAL OPEX from CAPEX

Some operational and maintenance costs will be associated with permanently installed equipment, for example sensors/monitoring equipment, VSDs, loggers and batteries

IMPACT OF SCOPE / PROGRAMME CHANGES ON CAPITAL DELIVERY / OUTPUTS PROGRAMME

No significant scope/programme changes

IMPACTS ON CAPITAL OUTPUTS PROGRAMME LINKED TO TABLES 40, 40a & 40b

Links to Tables Completed	Yes ☒	No ☐	Comments – solutions are being delivered via Ops Capital funding.

RISKS & ISSUES ASSOCIATED WITH THIS DEVELOPMENT OBJECTIVE

- Funding constraints affecting ability to continue purchasing equipment.

WIDER BENEFITS OF THIS DEVELOPMENT OBJECTIVE

- The installations of, and advances in, these technologies listed above will enable NI Water to quickly identify asset failures, through improved data and visibility, and mobilise repair squads, thus minimising the customer impact.
- The activities will help maintain supply to customers and help achieve a CALM network, improve reliability, improve customer response, reduce customer minutes lost and meet our targets for reportable DG3 figures.

LINKAGE TO OTHER DEVELOPMENT OBJECTIVES

There may be a very small potential linkage between Smart Networks (DO8) and Smart Metering (DO24) as part of development of the Smart Networks Trial/Strategy. Data from smart meters may be useful in building data towards the Smart Networks Trial. DO24 is now closed and therefore linkage currently no longer relevant. Link between DO8 and DO24 considered insignificant and may be reviewed as part of the PC27 Business Plan.

Development Objective – Expenditure Summary

Table DO1 Expenditure on Development Objective (Nominal Prices)

Category	Spend to End March 2024 (£m)	Anticipated Future Spend (£m)	Anticipated Total DO Spend (£m)	Comment
Civil				
M&E				
Materials / Equipment	£0.019m	£0.019m	£0.038m	No spend in 23/24 regarding DO cost, all costs related to Solution Spend
NIE				
Lands				
Site Investigation				
Consultancy				
Pilot Studies		£0.104m	£0.104m	No spend in 23/24 regarding DO cost, all costs related to Solution Spend
Add Others as necessary				
Totals	**£0.019m**	**£0.123m**	**£0.142m**	
PC21 Projected Spend on Development Objective			**£0.142m**	

Annex 1

PC21 Smart Network Budget Profile. *

Assets	Delivery Route	PC21 Quantity	*Estimated Unit Cost	Quantity	2021/22	Quantity	2022/23	Quantity	2023/24	Quantity	2024/25	Quantity	2025/26	Quantity	2026/27	Total PC21
PRV flow/pressure modulation controllers	COD	80	£9,644	6	£57,861	16	£154,296	16	£154,296	16	£154,296	14	£135,009	12	£115,722	**£771,480**
Telemetry installations for Water Booster Stations (WBS)	COD	53	£18,000	3	£54,000	9 (+5 upgrades)	£146,000	10	£180,000	10	£180,000	10	£180,000	10	£180,000	**£920,000**
Improved controls at WBS	COD	50	£13,000	9	£83,425	15	£210,000	12	£156,000	12	£156,000	5	£65,000	0	£0	**£670,425**
Flow modulation (new FCV installation) on large users.	CWP	39	£8,000	0	£0	0	£0	1	£8,000	1	£8,000	1	£8,000	1	£8,000	**£32,000**
Pressure Monitoring of all 3071 PMA's. (note 1200 under Leakage project)	COD	1871	£1,200	120	£144,000	351	£421,200	350	£420,000	350	£420,000	350	£420,000	350	£420,000	**£2,245,200**
Water Quality Monitoring - permanent installations	CWP, transfer to	16	£21,000	0	£0	1	£21,758	4	£84,000	4	£84,000	4	£84,000	3	£63,000	**£336,758**
Water Quality - portable units	CWP	3	£5,500			0	£0	3	£16,500	0	£0	0	£0	0	£0	**£16,500**
Purchase portable transient loggers	CWP	37	£336	0	£0	45	£19,065	0	£0	0	£1,250	0	£0	0	£1,250	**£21,565**
Transient / surge reduction on existing assets (assume intervention is PRV installation)	CWP, transfer to	13	£26,000	0	£0	1	£44,777	3	£78,000	3	£78,000	3	£78,000	3	£78,000	**£356,777**
Additional Fast Fill Points	COD	13	£25,300	1	£15,129	3	£105,204	3	£75,900	3	£75,900	3	£75,900	0	£0	**£348,033**
Mobile Pumps	COD	3	£15,400	3	£46,214	1	£6,670	0	£0	0	£0	0	£0	0	£0	**£52,884**
Specialised quick response trailers	COD	1	£41,266	1	£41,266	0	£0	0	£0	0	£0	1	£50,000	0	£0	**£91,266**
Development of a Smart Network Trial & Smart Network Strategy / Roadmap	CWP	1	£80,000	0	£0	0	£0	0.25	£20,000	0.25	£20,000	0.25	£20,000	0.25	£20,000	**£80,000**
TOTAL					**£441,896**		**£1,128,970**		**£1,192,696**		**£1,177,446**		**£1,115,909**		**£885,972**	**£5,942,889**

**Total amounts for years 21/22 and 22/23 are actuals, next four years were based on figures which have not yet been fully adjusted for inflation*

See below costs for PC21 Smart Networks Budget, Total PC21 figure adjusted using March 24 OBR forecast. **

	2021/22	2022/23	2023/24	2024/25 Uplift	2025/26 Uplift	2026/27 Uplift	Total PC21
TOTAL	£441,896	£1,128,970	£1,203,431	£1,562,864	£1,486,646	£1,097,416	£6,921,223

***First 3 years actual costs, last 3 years of PC21 period adjusted to meet Forecast Cost of Solution (nominal prices)*

Annex 2

Screenshot below of Smart Networks Prioritisation Matrix Spreadsheet shows reviews of existing assets and network 'readiness' for Smart Networks. This includes permanent monitoring sites, control equipment, telemetry coverage, mains designs and asset standards, and temporary supply points.

1	CAR Information		or Overview Table					Scoring				
2	PMA Carid	Name	Telemetry Required	Smart Control Required Count	Flow Meter Required Count	Suction Presure Required Count	Delivery Presure Required Cou	Potential Leakage Reduction (%)	Leakage Reduction Score	Customer Complaints	Customer Score	Total Points
3	WP000703390	Killymeal WPS	1	1	1	1	1	53%	100	149	40	140
4	WP000703395	Killylea Road East WPS	1	1	1	1	1	57%	100	105	40	140
5	WP000703488	Tullyvogy WPS	0	1	0	1	0	39%	75	22	20	95
6	WP000703556	Cashty Road West WPS	0	1	0	1	0	28%	75	25	20	95
7	WP000703366	Lenamore Springs Upper WPS	0	1	0	1	0	45%	75	21	20	95
8	WP002884013	Croft Road Holywood WPS	0	1	0	1	0	22%	50	207	40	90
9	WP000703547	Killaney Lower WBS	0	1	0	1	0	20%	50	195	40	90
10	WP000703672	Redhills Lurganville WPS	0	1	0	0	0	15%	50	172	40	90
11	WP000703397	Mullaghanagh WPS	0	1	0	1	1	16%	50	216	40	90
12	WP000703728	Barr Hill WPS	1	1	1	1	1	36%	75	9	10	85
13	WP000703750	Carran Hill Three WPS	1	1	1	1	1	42%	75	7	10	85
14	WP000703414	Annagher Upper WPS	0	1	0	0	1	30%	75	11	10	85
15	WP003179115	Beechfield Drive WPS	0	1	0	0	0	31%	75	1	10	85
16	WP000703748	Lurgan Road Crossmaglen WPS	1	1	1	1	1	29%	75	17	10	85
17	WP000703760	Tievecrom Road WPS	1	1	1	1	1	25%	75	10	10	85
18	WP000703392	Crewcat WPS	0	1	0	0	1	33%	75	15	10	85
19	WP000703461	Sallowilly WPS	0	1	0	1	0	37%	75	8	10	85
20	WP000703542	Fallagh Road WPS	1	1	1	1	1	27%	75	8	10	85
21	WP000703453	Glenabbey Upper Galliagh WBS	0	1	0	1	1	27%	75	14	10	85
22	WP000703587	Drumderg WPS	1	1	1	1	1	30%	75	9	10	85
23	WP000703638	Hillhead Road Bovedy WPS	0	1	0	0	0	26%	75	12	10	85
24	WP002870885	Fardross Road WPS	1	1	1	1	1	33%	75	12	10	85
25	WP000703443	Dreen WPS	0	1	0	1	0	48%	75	7	10	85
26	WP000703359	Ardbarren WPS	0	1	0	1	0	26%	75	15	10	85
27	WP000703487	Tullyrossmearan WPS	0	1	0	1	0	36%	75	19	10	85
28	WP000703810	Tildarg Road WPS	0	1	0	0	0	42%	75	3	10	85

** Smart Networks Prioritisation Matrix Spreadsheet is used as an initial basis for which to survey sites for improved controls suitability, leakage reduction score is calculated using a banding system from the potential leakage reduction %.*

DEVELOPMENT OBJECTIVE [DO]		
Ref	Development Objective	Sub-Programme
09	**WwPS / CSO Quality (UID) and WwPS (Capacity increase)**	**12b & 12c**

As noted in our PC21 Mid-Term Review submission, section 3.1.2, work on this development output is complete and it is now considered closed.

DEVELOPMENT OBJECTIVE [DO]		
Ref	Development Objective	Sub-Programme
10	**Event Duration Monitors WwPS/CSOs**	**12b**

GOVERNANCE		
Directorate	**SRO**	**Project Lead**
AD	[redacted]	[redacted]

REASON DEVELOPMENT OBJECTIVE IS NECESSARY

The Event Duration Monitoring (EDM) WwPS/CSO programme of work has been classified as a development output due to the significant amount of further investigation required to confirm the priority, scope and scale of monitoring required, including interaction with DAP models currently under development.

DEVELOPMENT OBJECTIVE TO CONFIRM SOLUTION SPEND IN PC21 &/or PC27		
PC21 only ☐	**PC27 only ☐**	**PC21 and PC27 ☒**

PROJECT SCOPE

Original Scope

The revised Bathing Water Directive now requires NI Water to monitor and log dates and times of when CSOs release storm water to sensitive waters as listed:

1. Designated Shellfish Waters,
2. Designated Bathing Waters,
3. Special Areas of Conservation (SACs),
4. Marine Conservation Zones (MCZs),
5. Water Framework Direction (WFD) classifications meeting a less than good status,
6. Designated as sensitive under Urban Wastewater Treatment Directive.

Updated Scope

The revised Bathing Water Directive now requires NI Water to monitor and log dates and times of when CSOs release storm water to sensitive waters as listed:

1. Designated Shellfish Waters,
2. Designated Bathing Waters,
3. Special Areas of Conservation (SACs),
4. Marine Conservation Zones (MCZs),
5. Water Framework Direction (WFD) classifications meeting a less than good status,
6. Designated as sensitive under Urban Wastewater Treatment Directive.

A prioritisation process is ongoing for the above and multi-criteria approach is being developed for remainder of EDMs in PC21 and PC27.

Development of EDM policy and asset standards by Wastewater Strategy team to cover the following:

- Hardware requirements
- CSO validation techniques for external reporting in near real time
- Data analysis and digital data display platform
- A communications plan for providing this information to NIEA and the general public by PC27.

COMMENTARY ON MATERIAL CHANGES TO SCOPE

Asset Management have adopted the data – this has led to changes in scope to deal with regulatory risk.
As part of PC27 planning a WQ priority piece is going on to expand the EDM programme in order to collect data for strategic asset risk profiling. This is to ensure that catchments in priority areas have 100% EDM coverage to enable several key functions:

- WWRR – statutory requirements for near real-time reporting of EDM spills
- Model confidence DAP vs EDMs
- Solution confidence
- Development of an EDM reporting dashboard – this is for key metrics on asset performance but also for maintenance and validation of spill reporting.

PROJECT OUTCOMES

Original Project Outcomes

- To provide overflow data to inform NIEA of spills to the environment
- To alert CSDD of maintenance required at network CSOs
- Prevent premature spillages

Updated Project Outcomes

- To provide overflow data to inform NIEA of spills to the environment and compliance with impending statutory requirements for near real-time reporting of EDM spills
- To alert CSDD of maintenance required at network CSOs
- Prevent premature spillages
- EDM Reporting Dashboard
- Increased hydraulic model confidence

The key deliverables are:

- An EDM Reporting Dashboard (in near real-time)
- Increased hydraulic model confidence

COMMENTARY ON MATERIAL CHANGES TO PROJECT OUTCOMES

Project outcomes enhanced as further benefits can be realised from monitoring CSOs. Emerging legislation is also driving statutory requirements on reporting of CSO spills.

UR MONITORING EXPECTATIONS

Progress on the delivery of this objective will be monitored and reported on through the annual cost and performance report process as a minimum. In addition, we expect NI Water to:

- Develop and submit an updated programme for the delivery of this objective.
- Engage with UR staff on the timing of additional engagement, reviews and the determination of any outcomes flowing from the successful completion of the development stages.
- Engage with NIEA as required on the priority, scope and scale of monitoring required.

HOW UR MONITORING EXPECTATIONS HAVE BEEN FULFILLED

UR advised of progress in AIR22 return.
Agreed programme (internally and with NIEA) of EDM delivery is provided in this AIR23 return and maintained for AIR24.
NIEA have been regularly engaged with in 21/22. Meetings with NIEA have been suspended throughout 22/23 due to NIEA time constraints but is going to be discussed at WWRR meetings in future.
NI Water have been having regular meetings with NIEA through WWRR to discuss Flow and EDM policies.

PROGRAMME					
See Master DO Programme v1 dated 30/06/24.					
KEY MILESTONES FOR DEVELOPMENT OBJECTIVE					
Description Key PC21 FD DO Milestones	**FD21 Annex T Milestone Target Date**	**Status Vs FD21 Target**	**Current Milestone Target Date**	**Status Vs Current Target**	**Commentary on Material Milestone Date Changes *AND / OR* Reasons for any material Delay**
NIW Stage A0 A1 Options and Business case complete	Mar-23	On Target	Mar 21	Suspended	Agreement with NIEA that delivery of EDM programme is to be split into 3 batches covering 2 years each. Target for PC27 remains unchanged
Submit updated programme to UR	N/A	N/A	June/July 22 (AIR22)	Complete	See AIR22
Engage with UR.	N/A	N/A	2021-27	On Target	
Engage with NIEA.	N/A	N/A	2021-27	On Target	
NIW Stage A0/A1 Options and Business case complete for year 1 and 2	N/A	N/A	Mar 21	Complete	
NIW Stage A0/A1 Options and Business case complete for year 3 and 4	N/A	N/A	Mar 25	On Target	BC approved 17/08/2022 – option 2 Install of EDM equipment at selected WwPSs and CSOs (250no).
NIW Stage A0/A1 Options and Business case complete for year 5 and 6	N/A	N/A	Mar 25	On Target	
Confirm Outline Capital Submission Projects List for PC27			June 25	On Target	To inform PC27 Business Plan
Confirm if DO10 continuing for PC27			June 25	On Target	To inform PC27 Business Plan

KEY MILESTONES FOR SOLUTION INVESTMENT					
Delivery of first 41 sites	Apr 21	Not possible	Mar 22	Complete	Original Date was the start of PC21, amended to end of YR1
Completion of EDM Programme	Mar 27	On Target	Mar 27	On Target	

EXPENDITURE [See Also Table DO1 below]		
FD21 Annex T Estimated Total Cost of DO (2018/19 prices)	**Forecast Cost of DO (Nominal prices)**	**Commentary on Material Total Cost Changes for DO**
£2.6m	£2.882m	Revised figure is £2.882m indexed using the March 24 OBR forecast (from £3.386m AIR23)
PC21 FD Estimated Cost of Solution (2018/19 prices)	**Forecast Cost of Solution (Nominal prices)**	**Commentary on Material Solution Cost Changes**
£23.96m	£29.493m	Revised figure is £29.493m indexed using the March 24 OBR forecast (from £31.135m AIR23)

ACTIVITY COMPLETED TO DATE AND OUTCOMES TO DATE (MARCH 2024)

Initial workshops have been completed in 21/22 with NI Water and NIEA on a two month cycle. Meetings with NI Water and NIEA ceased for 22/23 due to NIEA time constraints. Internal workshops are taking place monthly. These workshops have been set up to make sure all the required information and work needed, is captured, and set out in a proper program of work. It was agreed within NI Water to break down the programme into 3 phases and have separate Business Cases for each phase as set out on the milestones above. This phasing was Year 1&2, Year 3&4 and Year 5&6. A breakdown of this work is as follows:

- The installation of the EDMs to date:

21/22 Installs	21/22 Target	22/23 Installs	22/23 Target	23/24 Installs	23/24 Target
52	50	83	50	124	100

- Telemetry set ups
  This work is ongoing as the new EDMs are installed.
- Reporting template
  Discussions is ongoing with NIEA on format of this report.
- All information captured on CAR/Budi
  Hand over agreement has been agreed between Capital delivery/Operations and the CAR Team.

For 21/22 this work was discussed on a 2 month basis with NIEA. Meetings for 22/23 were postponed due to NIEA time constraints. NI Water is to propose new subgroup to meet with NIEA to cover EDMs and Flow compliance for time efficiencies.

Continued meetings with NIEA and Internal stakeholders, getting agreement with the programme and keeping them informed on the milestones and any delays NI Water may come across.

During 23/24 NI Water have been having regular meetings with NIEA through WWRR to discuss Flow and EDM policies.

PLANNED NEXT STEPS FOR DELIVERY

The next steps of the EDM programme are to complete the installation of the EDMs as set out in the programme below along with approved Business Cases.

		PC21 Outputs						
Project		2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	*Totals*
KI696/KI699/KI700 Phase 1, 2 & 3	Target	50	50	100	150	150	146	*646*
KI835 WwTW F Comp & EDM's	Target	16	17	17	16	16	16	*98*
	Target Total	66	67	117	166	166	162	*744*
KI696 Phase 1 (Years 1 & 2)	Actual	52	83	77	0	0	0	*212*
KI699 Phase 2 (Years 3 & 4)	Actual	0	0	47	0	0	0	47
KI700 Phase 3 (Years 5 & 6)	Actual	0	0	0	0	0	0	*0*
KI835 WwTW F Comp & EDM's	Actual	0	0	0	0	0	0	*0*
PC21 Cumulative Total	Actual	52	83	124	0	0	0	-
							Actual Total:	259

As part of PC27 planning a WQ priority piece is going on to expand the EDM programme to collect data for strategic asset risk profiling. This is to ensure that catchments in priority areas have 100% EDM coverage to enable several key functions:

- WWRR – statutory requirements for near real-time reporting of EDM spills
- Model confidence DAP vs EDMs
- Solution confidence
- Development of an EDM reporting dashboard – this for key metrics on asset performance but also for maintenance and validation of spill reporting. The dashboard has been developed and continues to be developed and refined to meet developing business needs.

To achieve 100% EDM coverage in the high priority catchments temporary EDM loggers will be rolled out where gaps are identified until the main capital project can install permanent loggers.

PROPOSED MAINTENANCE EXPENDITURE / ADDITIONAL OPEX from CAPEX

It has been highlighted during the start of this work, that increased funding will be needed to carry out the maintenance and reporting of the new EDMs in PC27. This will be considered as part of the PC27 planning processes. Currently, it is not envisaged that any additional CAPEX is needed in PC21. Work is ongoing to try and evaluate how much CAPEX is required in PC27 and a management strategy for EDMs

IMPACT OF SCOPE / PROGRAMME CHANGES ON CAPITAL DELIVERY / OUTPUTS PROGRAMME

With the need to have 100% EDM coverage in priority catchments and secondary line of project work will be commenced in 23/24 to rollout temporary EDM loggers. This will enhance the current programme as it gives NI Water data insights at a quicker rate to the current programme rollout.

IMPACTS ON CAPITAL OUTPUTS PROGRAMME LINKED TO TABLES 40, 40a & 40b

Links to Tables Completed	Yes ☒	No ☐	Comments

RISKS & ISSUES ASSOCIATED WITH THIS DEVELOPMENT OBJECTIVE

As other stakeholders, in particular external, learn about this programme, there is an increase in Freedom of information requests for this type of information. The concern is the information is being used in a particular way which it was not set up to do, giving distorted expectations.

WIDER BENEFITS OF THIS DEVELOPMENT OBJECTIVE
Wider benefits of this development objective include: • Asset performance insights • A move towards real time monitoring and predictive analytics – proactive approaches to reducing spills • Improving the confidence in hydraulic models
LINKAGE TO OTHER DEVELOPMENT OBJECTIVES
There is some linkage to other Development Objectives, as follows: • Section 12 – Storm Water Separation

Development Objective – Expenditure Summary

Table DO1 Expenditure on Development Objective (Nominal Prices)

Category	Spend to End March 2024 (£m)	Anticipated Future Spend (£m)	Anticipated Total DO Spend (£m)	Comment
Civil				
M&E				
Materials / Equipment				
NIE				
Lands				
Site Investigation				
Consultancy	0.931	1.951	2.882	KI696, JI700, KI699 Revised figure is £2.882m indexed using the March 24 OBR forecast (from £3.386m AIR23)
Pilot Studies				
Add Others as necessary				
Totals	**0.931**	**1.951**	**2.882**	
PC21 Projected Spend on Development Objective			**2.882**	

DEVELOPMENT OBJECTIVE [DO]		
Ref	Development Objective	Sub-Programme
11	**Cranfield Catchment, Kilkeel Storm Separation**	**12g**

As noted in our PC21 Mid-Term Review submission, section 3.1.2, work on this development output is complete and it is now considered closed.

DEVELOPMENT OBJECTIVE [DO]		
Ref	Development Objective	Sub-Programme
12	**Storm Water Separation**	**12g**
GOVERNANCE		
Directorate	**SRO**	**Project Lead**
AD	[redacted]	[redacted]

REASON DEVELOPMENT OBJECTIVE IS NECESSARY

Original Text

Throughout Northern Ireland many wastewater networks are overloaded resulting in out of sewer flooding, unacceptable intermittent discharges (UIDs), restrictions to new developments and higher operational costs through the storage, conveying (including pumping) and treating of combined foul and surface water flows. The projects are regarded as development outputs due to the early stages of feasibility at the time of submission, critical unknown constraints include connectivity within the system to confirm GIS/modelling data and cross connection investigation, confirmation of contributing areas, limited feasibility to inform the capacity of the proposed receiving water course and required discharge consent or design feasibility and limited or no stakeholder engagement.

Updated Text

The aim of Northern Ireland Water's (NIW) Stormwater Separation programme is to reduce the impact of stormwater on NIW's wastewater infrastructure. This is achieved by the removal of impermeable areas that discharge storm water runoff into the combined sewerage network.

NI Water is proposing to remove 21.87 ha of impermeable area discharging storm water to the combined sewerage network within the PC21 investment period. For MTR NI Water proposed to change the "Impermeable surface water collection area removed from the combined sewerage network" area from 218.72ha (AIR23) to 21.87ha AIR24 and the Utility Regulator accepted this change.
As outlined in the PC21 Business Case, this target is comprised of three main elements, which are as follows:

a) Previously identified storm separation opportunities identified in PC15 via DAPs including Foyle Street, Londonderry, Kilkeel, Bushmills.
b) A series of planned opportunities identified using NIW's stormwater separation methodology assessment. Using this methodology, over 50 locations were identified that may be suitable for storm separation following further investigation within PC21. Prior to further investigations within PC21 (ground truthing), the estimated area associated with these locations is 91.59Ha. After ground truthing, it is likely that some of the opportunities may not be feasible.
c) Opportunities for 'reactive' storm water separation that will develop in PC21 which are associated with other projects with primary drivers e.g. a first time service to connect a new development to a local water course. Our experience from PC15 is that additional investment can facilitate separation of existing impermeable areas discharging to the combined network along the route of this new infrastructure. We have used a rate per hectare based on PC15 projects to estimate the area removed. This programme of work is largely opportunistic.

Note that changes to original text in Annex T relate to improvements to technical accuracy of the original text, linkages to our Net Zero ambitions.

DEVELOPMENT OBJECTIVE TO CONFIRM SOLUTION SPEND IN PC21 &/or PC27		
PC21 only ☐	**PC27 only ☐**	**PC21 and PC27 ☒**

PROJECT SCOPE

Original Scope

The estimated removal of 218.72 Ha of impermeable area that discharges storm water into the foul / combined sewerage network. The project needs have been identified in three strands.

1. Historic DAP surface water separation opportunities. Six projects have been promoted for consideration (Kilkeel, Priestland Road – Bushmills, York Street – Belfast, Belleek, Foyle Street Londonderry and Cranfield). (Cranfield iPAC 1931 and Foyle Street – Londonderry iPAC 1210 detail is included within a separate business case, referenced within this document for completeness of the 12g Storm Separation programme.)

2. Opportunity for separation of surface water from the foul/combined network identified via GIS analysis or network field manager interview.

3. Opportunities developed in conjunction with works on the sewerage network for other reasons where storm separation can be achieved at reasonable additional cost.

Updated Scope

The estimated removal of 21.87 Ha impermeable area that discharges storm water into the foul / combined sewerage network. The project needs have been identified in two strands. This has been rationalized from three (AIR23) into two (AIR24) strands to return to Original scope where Ingress and Infiltration not included.

1. Initially, six projects were identified from historic DAP studies for further investigation as outlined in Annex T.

    a. Priestland Road, Bushmills (IPAC 1943)
    b. Kilkeel – (IPAC 1931)
    c. York Street, Belfast, (IPAC 2544?)
    d. Belleek (IPAC 1189)
    e. Foyle Street Londonderry (IPAC 1210)
    f. Cranfield Kilkeel. (IPAC 1931)

In the AIR23 submission it was noted Priestland Road was Kilkeel this has been updated to Priestland Road Bushmills. Kilkeel is a separate standalone project.

2. A new, digital corporate system has been introduced by NIW to manage our Storm Separation programme. Storm Water Separation Web Mapping Application incorporating ESRI WebApp and Dashboard is used to record and track areas of opportunity for storm water separation progressing to completion. The application also records opportunities which have been investigated but are unable to progress.

NI Water is developing a storm overflow reduction plan which will set out our strategy and frame the interdependencies with linked DOs.



COMMENTARY ON MATERIAL CHANGES TO SCOPE

Through a process of evolution, it is intended that this DO will align to NI Water's storm overflow reduction plan which is currently being developed.

PROJECT OUTCOMES

Original Project Outcomes

- Ecological and Environmental Impact – reduction in UID spills due to reduced flows within the sewerage network, recharging of urban water courses providing increased dilution and retention of storm water.
- Alignment with Strategic Aims and Objectives
- Sustainable Development – reduction in OPEX costs (and therefore electricity) of WwPS and WwTW including improvement in biological performance.
- Sustainable Development – increased capacity in the sewers allowing for future developments to be granted connections and creation of headroom capacity in system.

Updated Project Outcomes

Alignment with NI Water Strategic Aims and Objectives:

1. **Ecological and Environmental Impact** – reduction in UID spills due to reduced flows within the sewerage network, recharging of urban water courses providing increased dilution and retention of storm water. Contribution towards WFD River Basin Management Objectives.
2. **Net Zero and Climate Resilience**– reduction in OPEX costs and reduction in carbon footprint through reduced electricity consumption. Improvement to WwTW biological performance, particularly in activated sludge plants and adds resilience capacity for climate change.
3. **Development Constraints** – increased capacity in the sewers allowing for future developments to be granted connections and creation of headroom capacity in system.
4. **Customer** – improved customer impact through reduction of internal and external flooding and complaints around flushing of toilets, for example.
5. **Biodiversity** - with Blue Green Infrastructure opportunities and associated benefits that BGI has on communities.
6. **Statutory Requirements** – contributes to new and emerging statutory Legislation and policies related to Wastewater Regulation Reform (WWRR):
    a. Environment Act and Urban Wastewater Treatment Directive (recast)
    b. WwTW Flow Compliance non-compliance management plans
    c. EDM Spill reporting and measures to reduce.
    d. Long Term Wastewater Catchment Planning (DWMPs and/or IUWWMPs)

The key deliverables are:

- Draft Business Case for PC21 and PC21 SWS
- Prioritised list of capital projects

COMMENTARY ON MATERIAL CHANGES TO PROJECT OUTCOMES

Through a process of evolution, it is intended that this DO will align to NI Water's storm overflow reduction plan which is currently being developed.

UR MONITORING EXPECTATIONS

Progress on the delivery of this objective is being monitored and reported on through the annual cost and performance report process as a minimum. In addition, we expect NI Water to:

- Develop and submit an updated programme for the delivery of this objective.
- Engage with UR staff on the timing of additional engagement, reviews and the determination of any outcomes flowing from the successful completion of the development stages.
- Engage with NIEA and other stakeholders on needs, options, priorities and the programme for delivery as required

HOW UR MONITORING EXPECTATIONS HAVE BEEN FULFILLED

UR has been advised of progress in annual cost and performance report process. Submissions in 2023 completed and current report highlights progress on DO to date.
NI Water is in the process of agreeing the policies related to CSO spill reporting and Flow compliance with NIEA.

Through a process of evolution, it is intended that this DO will align to NI Water's storm overflow reduction plan which is currently being developed.

PROGRAMME

See Master DO Programme v1 dated 30/06/24.

KEY MILESTONES FOR DEVELOPMENT OBJECTIVE

Description Key PC21 FD DO Milestones	**FD21 Annex T Milestone Target Date**	**Status Vs FD21 Target**	**Current Milestone Target Date**	**Status Vs Current Target**	**Commentary on Material Milestone Date Changes *AND / OR* Reasons for any material Delay**
The development of the storm separation programme is ongoing throughout PC21 (Individual named projects have development milestones, please refer to the Storm separation business case 1790 et al)	Mar 27	On Target	N/A	N/A	Internal NIW discussions are seeking agreement with the UR to change this milestone to the milestone "establish a strategy for I&I management…" as the current approach is not yielding significant progress and efficiency. NI Water's approach to storm water separation has evolved from inception of DO work to AIR24.

Submit updated programme to UR	N/A	N/A	2021-27	Ongoing	Submitted in AIR23 and an update is being submitted through this AIR24
Engage with UR.	N/A	N/A	2021-27	Ongoing	
Engage with NIEA.	N/A	N/A	2021-27	Ongoing	NIEA monthly to discuss WW investments in general, for which storm separation is a part of the meeting discussions
Establish a methodology for storm separation across all projects and functions	TBCN/A	N/A			Northern Ireland Water returning to original scope of stormwater separation only. Through a process of evolution, it is intended that this DO will align to NI Water's storm overflow reduction plan which is currently being developed. 
Understand the budget for storm separation only projects	N/A	N/A			Through a process of evolution, it is intended that this DO will align to NI Water's storm overflow reduction plan which is currently being developed.
Identify a benchmark for economic storm separation and prioritise	N/A	N/A			Through a process of evolution, it is intended that this DO will align to NI Water's storm overflow reduction plan which is currently being developed.

A1 business case for year 3 and 4 of PC21 – named schemes	N/A	N/A	Jun 23	Complete	Business Case has been submitted waiting for approval. Internal approval for spend for years 3 and 4
Delivery of capital programme	N/A	N/A	2021-27	Ongoing	
Development of a digital Platform to track opportunity through to benefits realisation	N/A	N/A	2021-27	Ongoing	A new, digital corporate system has been introduced by NIW to manage our Storm Separation programme. Storm Water Separation Web Mapping Application incorporating ESRI WebApp and Dashboard
Prepare strategy for PC27 DO			June 2025	On Target	To include BC for PC27 submission Through a process of evolution, it is intended that this DO will align to NI Water's storm overflow reduction plan which is currently being developed.
KEY MILESTONES FOR SOLUTIONS INVESTMENT					
Completion of the investment to achieve the target of 21.8Ha	Mar 27	On Target	Mar 27	On Target	Revised target agreed with UR in MTR. 21.8ha and not 218 ha CAPEX Solutions to be delivered for PC27

EXPENDITURE [See Also Table DO1 below]		
FD21 Annex T Estimated Total DO Cost (2018/19 prices)	**Forecast Cost of DO (Nominal prices)**	**Commentary on Material Total Cost Changes for DO**
£0.57m (18/19 prices)	£0.57m increased by Mar24 OBR forecast to £0.762m. Remainder of increase via BAU process. TOTAL £2.747m (nominal prices)	Increase in funding to realise Surface Water Management opportunities as ground truthing required and extra funding to realise Blue Green Infrastructure opportunities.
PC21 FD Estimated Cost of Solution (18/19 prices)	**Forecast Cost of Solution (Nominal prices)**	**Commentary on Material Solution Cost Changes**
£14.3m (18/19 prices)	£14.284 m NIAMP5 £4.844 m LWWP Total £19.128m (nominal prices)	Revised figure is £14.3m indexed using the March 24 OBR forecast (from £18.928m AIR23) Forecast is currently still sufficient for updated scope.

ACTIVITY COMPLETED TO DATE AND OUTCOMES TO DATE (MARCH 2024)

An internal meeting took place in March 2023 to review progress and efficiency against the Development objective to date between Wastewater Strategy, Capital Delivery, Operations and Developer Services. It was agreed that Wastewater Strategy should take the lead in this programme introducing a change in approach to improve success rate and linkages to wider Wastewater Strategy priorities.

Northern Ireland Water is returning to original scope of this DO to being stormwater separation only, Infiltration and Ingress no longer part of this project.

- Re-prioritise the areas for investigation by incorporating new and existing datasets and linking these to wider wastewater strategy priorities and capital planning.
- Introduce cost beneficial efficiency indicators to ensure greater benefits are realised and that fieldwork is targeted.
- Trail innovation to increase efficiency of survey work and ground truthing. Other innovative data analysis techniques will help to establish the type of hydraulic stress in a catchment.
- Development of a digital Platform to track opportunity through to benefits realisation.
- Measuring and setting pre and post intervention indicators in a catchment so that the multitude of benefits are captured and not measuring success on a hectarage removed basis as the programme feeds into long term wastewater strategic planning and scenario development.

Engagement with NIEA is ongoing through various regulatory forums as to how this development objective is helping NI Water manage hydraulic stress.

Update on Schemes set out in Annex T

Original Studies Scope			
Named Scheme	Target (Ha)	Cost (£m)	Status
Belleek	?	?	(IPAC 1189) Programmed for April 2025. Implementation is dependent on Peace Plus funding
Kilkeel	?	?	(IPAC 1931) Business case to be prepared by June 2024, works to commence October 2024
Priestland Road, Bushmills	1.0	0.489	(IPAC 1943) Works to commence October 2024
York Street (Belfast)	-	-	(IPAC 2544) At judicial review, causing long term delays.
Foyle Street	1.8	2.048	(IPAC 1210) enabling works commenced May 2024 with planned completion by September 25
Cranfield Kilkeel	1.0	2.304	(IPAC 1931) Construction (ECI) Works to commence October 2024
Totals	**3.8**	**4.841**	

In Year 1 and Year 2 of PC21, NI Water removed 9.2 Ha of impermeable area (AIR23 Table 16 L31), in Year 3 a further 13 Ha has been removed.

Update on Year 3 Completed Schemes Storm separation schemes this is linked to Table 16 Line 31

PLANNED NEXT STEPS FOR DELIVERY

The next steps for this development output are set out below:

Through a process of evolution, it is intended that this DO will align to NI Water's storm overflow reduction plan which is currently being developed.

- A programme of survey work to confirm likelihood of Storm Separation and creation of standardised survey specification and data returns feeding into the Corporate system.
- The further development of a systems integration which will allow interventions to be progressed as a fully co-ordinated and integrated programme of work. This will be achieved through the implementation of a new process.
- Re-prioritise the areas for investigation by incorporating new and existing datasets and linking these to wider wastewater strategy priorities and capital planning.
- Introduce cost beneficial efficiency indicators to ensure greater benefits are realised and that fieldwork is targeted.
- Measuring and setting pre and post intervention indicators in a catchment so that the multitude of benefits are captured.
- Subject to funding, further investigation, feasibility, ECI and economic appraisal on identified schemes to feed into business cases for PC27 investment purposes. Planning for PC27 will be based on NIW Storm Water Separation methodology with prioritisation of areas linked to wider Wastewater Strategy objectives.
- With the refocused strategy, the AIR23 development of a risk register no longer applies, as this was for the I&I work aspect which is now separate from this DO.

PROPOSED MAINTENANCE EXPENDITURE / ADDITIONAL OPEX from CAPEX

- To be confirmed with solutions

IMPACT OF SCOPE / PROGRAMME CHANGES ON CAPITAL DELIVERY / OUTPUTS PROGRAMME			
Adopting a strategy that links all data sources, instrumentation and surveys should harness a more efficient and cost effective surface water management programme. This should lead to a higher success rate in ground truthing potential schemes and scope certainty of the proposed construction outputs. This will help achieve the capital delivery/outputs programme and linked the programme to other wastewater strategic drivers.			
IMPACTS ON CAPITAL OUTPUTS PROGRAMME LINKED TO TABLES 40, 40a & 40b			
Links to Tables Completed	Yes ☒	No ☐	Comments
RISKS & ISSUES ASSOCIATED WITH THIS DEVELOPMENT OBJECTIVE			
Risks include: - Data availability and accuracy - Delay of ground truthing programme due to contractor resource issues - Delay of ground truthing programme due to external issues (i.e. traffic management permits from DFI Roads) - Availability of hardware for monitoring sewers (widespread demand in UK due to recent statutory changes) - Limited feasibility to inform the capacity of the proposed receiving water course and required discharge consent or design feasibility. - With the refocused strategy, the AIR23 development of a risk register no longer applies, as this was for the I&I work aspect which is now separate from this DO.			
WIDER BENEFITS OF THIS DEVELOPMENT OBJECTIVE			
Wider benefits include: - Community engagement and education with potential Blue Green Infrastructure schemes - Wider stakeholder collaboration opportunities			
LINKAGE TO OTHER DEVELOPMENT OBJECTIVES			
There is some linkage to other Development Objectives, as follows: • Section 10 – Event Duration Monitors WwPS/CSOs This linkage is twofold. Firstly, in terms of identifying Storm Overflows which spill frequently and therefore may benefit from Storm Separation. Secondly, NIW can use data from EDMs to better understand the impact of Storm Separation. The availability of EDM/Telemetry data fits with wider strategy • Section 13 – Real Time Network Modelling. The development of 'live' models linked with EDM/telemetry data and radar rainfall will allow NIW to better understand capacity issues, identify storm separation opportunities and provide insight into likely benefits. EDM/telemetry data and radar rainfall Section 14 – Urban Drainage Live models for IOC, the availability of EDM/Telemetry data fits with wider strategy • Section 15 – Innovation Initiatives, Linkage is through Knowledge sharing • Section 16 – Urban Drainage Modelling - Studies to Inform PC27 - Top 271 Priority Drainage Areas. Verified DAP models are essential to identifying opportunities for possible Storm Separation and understanding removal on available capacity within the network. Knowledge Sharing • Section 19 – LWWP Networks - Henderson Ave project listed 6.88ha storm separation by following the stormwater reduction strategy/storm overflow reduction plan.			

Development Objective – Expenditure Summary

Table DO1 Expenditure on Development Objective (Nominal Prices)

Category	**Spend to End March 2024 (£m)**	**Anticipated Future Spend (£m)**	**Anticipated Total DO Spend (£m)**	**Comment** KI674 + KI745
Civil	1.057	0.332	1.389	Spend previously included in SI, Consultancy and now separated for clarity. Includes ECI after budget review.
M&E				
Materials / Equipment				
NIE				
Lands				
Site Investigation	0.643	0.000	0.643	Redistribution to Civil after budget review.
Consultancy	0.256	0.459	0.715	Small redistribution to Civil after budget review.
Pilot Studies				
Add Others as necessary				
Totals	**1.956**	**0.791**	**2.747**	
PC21 FD Projected Spend on Development Objective			**2.747**	

DEVELOPMENT OBJECTIVE [DO]		
Ref	Development Objective	Sub-Programme
13	**Real Time Network Modelling KI787**	**12z**

GOVERNANCE		
Directorate	**SRO**	**Project Lead**
AD	[redacted]	[redacted]

REASON DEVELOPMENT OBJECTIVE IS NECESSARY

Control, monitoring and automation of the sewerage network, and creating a digital twin via live network modelling, has the potential to maximise the capacity of the sewerage network, reducing out of sewer flooding, pollution and blockages, it also has the potential to assist NIW with operational maintenance and targeted intervention, providing efficiency through targeted maintenance investment.

DEVELOPMENT OBJECTIVE TO CONFIRM SOLUTION SPEND IN PC21 &/or PC27

PC21 only ☐	**PC27 only ☐**	**PC21 and PC27 ☒**

PROJECT SCOPE

Undertake trial studies to ascertain the benefits and mechanisms on how candidate catchments are performing in real time.

COMMENTARY ON MATERIAL CHANGES TO SCOPE

NI Water selected the Candidate Catchments based on data gathered from Drainage Area Studies and telemetry data investigations where high storm responses were indicated. Desktop studies review of GIS data were also undertaken to locate areas of storm sewers contributing to the foul/combined network.

PROJECT OUTCOMES

Original Outcome

- Maximise the capacity of the sewerage network
- Reduction in out of sewer flooding, pollution and blockages
- Assist NIW with operational maintenance and targeted intervention, providing efficiency through targeted maintenance investment

Replace outcome:

- Assist NIW with operational maintenance and targeted intervention, providing efficiency through targeted maintenance investment

With outcome:

- Collaboration with Operations to drive towards pro-active maintenance, targeted intervention and operational efficiencies

Add the following outcomes:

- Explore potential opportunities for supporting Ingress and Infiltration (I&I) reduction through collaboration with Business Analytics and COD
- Asset analysis (i.e. run pump times and failures) for asset health monitoring
- Analyse flow monitor and EDM data with model and rainfall data to understand where and how blockages may be developing.
- 15 Monitors Culmore Saline Ingress understand CSO spills Ingress and Infiltration within Network.
- 22 Monitors installed in Bessbrook to create a live model which can help support identification of Ingress and Infiltration within the network and understand CSO spills
- One Monitor installed Devenagh Burn, Ballymena ascertain Ingress and Infiltration within Network and understand CSO spills

- Seven Monitors installed Cookstown ascertain Ingress and Infiltration within Network and understand CSO spills

A key deliverable will be a technology assessment report, benefits assessment, and business case for PC27 and digital implementation strategy if deemed essential to address strategic planning risks.

COMMENTARY ON MATERIAL CHANGES TO PROJECT OUTCOMES

The project has been set up to look holistically with all the internal stakeholders - Developer Services, Capital Delivery, Business Analytics and Customer Operations to realise benefit of "smart networks" and live modelling across all business functions. This has led to a drive towards exploring if NI Water can realise more benefits and achieve a wider range of project outcomes to satisfy strategic objectives.

UR MONITORING EXPECTATIONS

Progress on the delivery of this objective will be monitored and reported on through the annual cost and performance report process as a minimum. In addition we expect NI Water to:

- Develop and submit an updated programme for the delivery of this objective.
- Engage with UR staff on the timing of additional engagement, reviews and the determination of any outcomes flowing from the successful completion of the development stages. An update on the results of the studies/trials is likely to be required as part of the engagement process.

HOW UR MONITORING EXPECTATIONS HAVE BEEN FULFILLED

UR has been advised of progress to date in AIR22 AIR23 and AIR24 returns. During AIR22 this project was to be started in 2024. Due to staff changes and resourcing this will commence in April 2024. Hence, changes to the order, Newry is to be progressed ahead of before Larne following requests from Developer Services. Initial results from Newry investigations are due October 2024.

PROGRAMME

See Master DO Programme v1 dated 30/06/24 which is based on the milestones below.

KEY MILESTONES FOR DEVELOPMENT OBJECTIVE

Description Key PC21 FD DO Milestones	**FD21 Annex T Milestone Target Date**	**Status Vs FD21 Target**	**Current Milestone Target Date**	**Status Vs Current Target**	**Commentary on Material Milestone Date Changes *AND / OR* Reasons for any material Delay**
Develop and submit an updated programme	N/A	N/A	Mar 24	Complete	See AIR 24 Master DO Programme
Update UR with methodology and how it will be applied	N/A	N/A	Nov 24	On Target	Newry BFTF commencing April 24
Update UR on the results of the studies/trials	N/A	N/A	Mar 25	On Target	

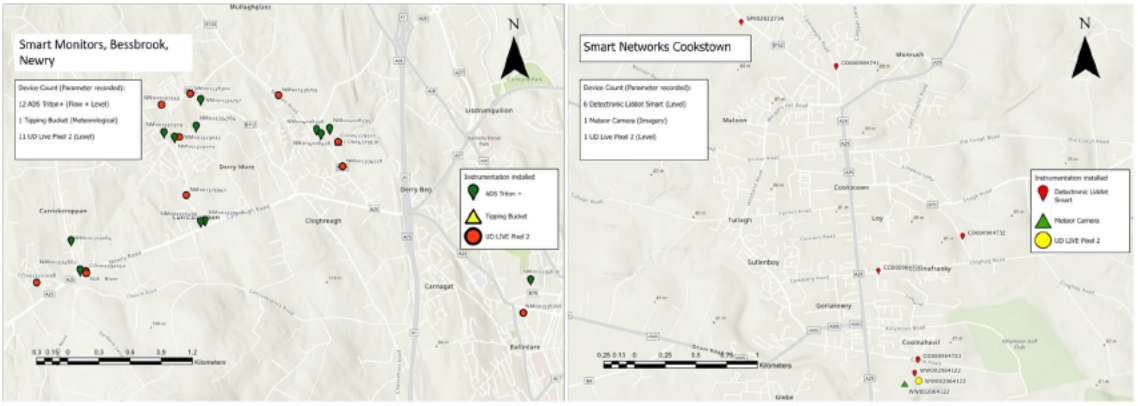
Review Newry system for learning opportunities	N/A	N/A	Mar 25	On Target	Newry BFTF was commenced before Larne so being utilised for learning opportunities April 24
Estimated NIW Stage A1 Options and Business Case Compete	Mar 23	Delayed	April 25	On Target	This DO was originally deferred to 2025 but brought forward a year as it is deemed essential to inform PC27.
Confirm Outline Capital Submission Projects List for PC27			June 25	On Target	To inform PC27 Business Plan
Confirm if this DO is continuing for PC27			June 25	On Target	Decision point on status of DO to inform PC27 BP
MILESTONES FOR SOLUTION DEVELOPMENT					
Completion of the investment to provide pilot projects within the sewerage network	Mar 27	On Target	Mar 27	On Target	
EXPENDITURE [See Also Table DO1 below]					
FD21 Annex T Estimated Total Cost of DO (2018/19 prices)	**Forecast Cost of DO (Nominal prices)**		**Commentary on Material Total Cost Changes for DO**		
£0.096m	£0.130m		Revised figure is £0.096m indexed using the March 24 OBR forecast (from £0.127m AIR23) This will be reviewed in AIR 24 after pilots.		
PC21 FD Estimated Cost of Solution (2018/19 prices)	**Forecast Cost of Solution (Nominal prices)**		**Commentary on Material Solution Cost Changes**		
£0.719m	£0.970m		Revised figure is £0.719m indexed using the March 24 OBR forecast (from £0.941m AIR23) This will be reviewed in AIR 24 after pilots		

ACTIVITY COMPLETED TO DATE AND OUTCOMES TO DATE (MARCH 2024)

Since the Final Determination, no activity has been undertaken with respect to DO13 until March 2023. In March 2023 the Wastewater Strategy team has taken over responsibility for this DO. A procurement exercise was undertaken in March 2023 to appoint consultancy support to deliver on this output. A scoping exercise will be commenced for trial catchments by June 2023.

Since the Final Determination and June 2023 scoping exercise, monitoring has progressed with four Catchments.

- 15 Monitors installed in Culmore identified Saline Ingress helping to understand CSO spills and Ingress and Infiltration within the Network.
- 22 Monitors installed in Bessbrook to create a live model which can help support identification of Ingress and Infiltration within the network and understand CSO spills.
- One Monitor installed in Devenagh Burn, Ballymena has identified Ingress and Infiltration within the Network and gives better understanding of CSO spills.
- Seven Monitors installed Cookstown has helped identify Ingress and Infiltration within the Network.



PLANNED NEXT STEPS FOR DELIVERY

It has been agreed that Wastewater Strategy will lead on this DO. Consultancy support was appointed in April 2023 and work since has been completed on strategy, scoping and monitoring of trial catchments.

NI Water have now commenced development a Newry 2024 Model Building for the Future (BFTF). This is a pilot project using networks monitors such as smart monitors, EDMs and Telemetry data to create a live 2024 model. The model is to be used to assist in identifying areas of concern within the catchment such as storm separation opportunities, I&I, incapacity, etc.

This project is to assist Developer Services and Capital Delivery to lift development embargos within the Newry DA to allow future housing developments.

Newry is a pilot scheme with the plan to assist in creating a Specification to undertake similar projects in other Catchments. Creating a live model maintenance programme on all our models within our library.

PROPOSED MAINTENANCE EXPENDITURE / ADDITIONAL OPEX from CAPEX

It is envisaged that there may be some OPEX from CAPEX and this will be determined during solution development.

IMPACT OF SCOPE / PROGRAMME CHANGES ON CAPITAL DELIVERY / OUTPUTS PROGRAMME

No impact of scope/programme changes on capital delivery as no solutions exist yet.

IMPACTS ON CAPITAL OUTPUTS PROGRAMME LINKED TO TABLES 40, 40a & 40b			
Links to Tables Completed	Yes ☐	No ☒	Comments N/A as no solutions exist
RISKS & ISSUES ASSOCIATED WITH THIS DEVELOPMENT OBJECTIVE			
Risks include: • Delay of ground truthing programme due to contractor resource issues • Delay of ground truthing programme due to external issues (i.e. traffic management permits from DFI Roads) • Availability of hardware for monitoring sewers (widespread demand in UK due to recent statutory changes) • Northern Ireland Water Staff changes and resourcing • Poor/Low flows within the selected location • Network connectivity poor in some areas requiring manual downloading • Monitor failure (battery issues)			
WIDER BENEFITS OF THIS DEVELOPMENT OBJECTIVE			
DO13 can link in with DO12. With increased instrumentation in the sewer network, advances in rainfall application to assets etc. we can analyse this data to not only give us a real time view of our assets but also insights into where we have excess flows in the network and ability to forecast network response to rainfall. This can also lead to increased model confidence due to more data coverage and therefore increased confidence in the capital solutions recommended from modelling.			
LINKAGE TO OTHER DEVELOPMENT OBJECTIVES			
There is some linkage to other Development Objectives, as follows: • Section 12 – Storm Water Separation • Section 10 - EDMs			

Development Objective – Expenditure Summary
Table DO1 Expenditure on Development Objective (Nominal Prices)

Category	**Spend to End March 2024 (£m)**	**Anticipated Future Spend (£m)**	**Anticipated Total DO Spend (£m)**	**Comment**
Civil	0			
M&E	0			
Materials / Equipment	0			
NIE	0			
Lands	0			
Site Investigation	0			
Consultancy	£0.076	**£0.054**	**£0.130**	Consultant spend in year.
Pilot Studies	0			
Add Others as necessary	0			
Totals	**£0.076**	**0.054**	**0.130**	Figure indexed using the Mar 24 OBR forecast
PC21 Projected Spend on Development Objective			**0.130**	

DEVELOPMENT OBJECTIVE [DO]		
Ref	Development Objective	Sub-Programme
14	**Urban Drainage Modelling - Live Models for IOC**	**20g**

GOVERNANCE		
Directorate	**SRO**	**Project Lead**
AD	[redacted]	[redacted]

REASON DEVELOPMENT OBJECTIVE IS NECESSARY

Develop and cost a methodology to allow NI Water to transition to Real Time network modelling (through trial studies) to facilitate identification of problems before they manifest in flooding or pollution incidents.

DEVELOPMENT OBJECTIVE TO CONFIRM SOLUTION SPEND IN PC21 &/or PC27

PC21 only ☒	**PC27 only ☐**	**PC21 and PC27 ☐**

PROJECT SCOPE

Develop and cost a methodology to allow NI Water to transition to Real Time network modelling to support the IOC. This will allow NI Water to better understand its network, create opportunities to optimize network operation and allow better informed decisions before and during incidents.

This project is a R&D project in order to identify potential opportunities through the use of Artificial Intelligence and its applicability to the Wastewater pumping system.

COMMENTARY ON MATERIAL CHANGES TO SCOPE

During phase one of the project, the supplier requested a change to the telemetry system to enable a real-time solution due to latency within the existing system. This occurred August 2022 and a new trial period commenced on the 12/09/2022.

PROJECT OUTCOMES

This may allow a more proactive approach and provide agile decision making based on dynamic scenarios. It will also help us understand our network better, create opportunities to optimise network operation and allow better informed decisions during operation of the Assets.

PC21 FD project outcome will form the basis for the further decision-making process. Changes were made to the system; the trial was recommenced. Optimization of the system was undertaken; results and findings will be presented at the end of the trial period.

The key outcome of this Development Objective is the development of situational awareness dashboards and alerting systems for IOC responses from Real Time Network Modelling.

COMMENTARY ON MATERIAL CHANGES TO PROJECT OUTCOMES

N/A

UR MONITORING EXPECTATIONS

Progress on the delivery of this objective will be monitored and reported on through the annual cost and performance report process as a minimum. In addition, we expect NI Water to:

- Develop and submit an updated programme for the delivery of this objective.
- Engage with UR staff on the timing of additional engagement, reviews and the determination of any outcomes flowing from the successful completion of the development stages. Provision of a copy of the methodology and an update on how NI Water intends to apply it is likely to be required as part of the engagement process.

HOW UR MONITORING EXPECTATIONS HAVE BEEN FULFILLED

- Met with the Reporter for AIR 22
- Updated progress and risks
- Identified key communication issue with system and modified timeline
- Outlined expectations for the 23/24 financial year
- Flow volumes to the works and energy efficiencies will be monitored and outcomes presented
- Engagement with UR on Methodology etc – NIW will carry out changes to the system, monitor and adjust configuration as necessary & publish report. Following the outcomes of this phase we will engage with the UR. A date for engagement with the UR will be determined when the trial is complete, and the trial outcomes are known.

PROGRAMME

See Master DO Programme v1 dated 30/06/24.

KEY MILESTONES FOR DEVELOPMENT OBJECTIVE

Description Key PC21 FD DO Milestones	**FD21 Annex T Milestone Target Date**	**Status Vs FD21 Target**	**Current Milestone Target Date**	**Status Vs Current Target**	**Commentary on Material Milestone Date Changes *AND / OR* Reasons for any material Delay**
Feasibility (desktop) study	N/A	N/A	Jan 21	Complete	*Milestone 1.* See Supplier feasibility report Section 14_Milestone 1_FLOW UK NIW Solu
Initial test running	N/A	N/A	Oct 21	Complete	*Milestone 2.* See minutes 02/09/2021 progress meeting Section 14_Milestones 2-5_Ev
Optimise solution and identify constraints	N/A	N/A	Mar 22	Complete	*Milestone 3.* See flow north coast monitoring ww team 03/02/2022
Identify solution to communication problem	N/A	N/A	May 22	Complete	*Milestone 4.* See 25/08/2022 plc discussions
New comms solution installed	N/A	N/A	Aug 22	Complete	*Milestone 5.* See e-mail

					14/09/2022
Batch 1 – Two catchments	2023		2024	Awaiting outcome of analysis	Trial has shown marginal performance gains milestone changed from 23 to 24 due to pump issues detail below
Batch 2 – Three catchments	2024		2024	Reliant on outcome of trial	Decision will be based on trial outcome
Submit updated programme to UR	N/A	N/A	2024	Reliant on outcome of trial	Deferred until more outputs are available
Engage with UR staff	N/A	N/A	2024	Reliant on outcome of trial	Deferred until more outputs are available
Provide UR with update on the results of the studies/trials. North Coast development project combining real-time data, network model and machine learning application	N/A	N/A	2024	Pump issue has impacted data analysis	Due to pump failure at key asset within the trial area
New Technology Assessment and Recommendations Report	N/A	N/A	Q3 24/25 financial year	On Target	AIR23 target revised due to previously mentioned issues
Estimated NIW Stage A1 Options and Business case complete	N/A	N/A	Q3 24/25 financial year	On Target	AIR23 target revised due to previously mentioned issues
Decide if this type of Real Time Network modelling should be BAU for PC27	N/A	N/A	Q4 24/25 financial yea	On Target	New milestone AIR24

KEY MILESTONES FOR SOLUTION INVESTMENT					
Real Time Network Modelling	TBC	N/A	Q3 24/25 financial year	Reliant on outcome of trial	Analysis of trial to establish benefits

EXPENDITURE [See Also Table DO1 below]		
FD21 Annex T Estimated Total Cost of DO (2018/19 prices)	**Forecast Cost of DO (Nominal prices)**	**Commentary on Material Total Cost Changes for DO**
£0.6m	£0.733m, which is £0.6m indexed to nominal prices (cost TBD – based on trial)	Revised figure based on the March 24 OBR forecast (down from £0.804m AIR23)
PC21 FD Estimated Cost of Solution (2018/19 prices)	**Forecast Cost of Solution (Nominal prices)**	**Commentary on Material Solution Cost Changes**
TBC	TBC	Solution cost is unknown at this stage

ACTIVITY COMPLETED TO DATE AND OUTCOMES TO DATE (MARCH 2024)

- Feasibility assessment started
- Deployment of test solution in North Coast zone – changes required to PLCs at local sites and server installed in NI Water ICT environment
- Assessment of constraints – key outcome – changes requested by the A.I. system are not being transferred at correct time to local site – new radio requirement identified
- P.O. placed for faster radio system and install currently being scheduled with site teams
- Install of radios completed August 2022
- New test commenced 12/09/2022
- Issues with pumps rectified 14/06/2023

A progress tracker showing individual tasks is shown below:

Assessment of data telemetry delays	15/03/2022		Issue with updates
Telemetry issues identified	03/05/2022		Ditto
Agreement on sites should stand alone from Ballinress scanner	17/05/2022		Specification ask for RDH
IT agreement on install of new radios and comms system	08/06/2022		System working
Radios installed and qualified	25/08/2022		Trial recommenced
New settings inserted into Aquasuite	12/09/2022		Causing issue with forecasting
Issue with NRV	03/10/2022		
NRV repaired	06/10/2023		Causing issue with forecasting
Pump issue rectified pump3 , pump 1 still out	23/01/2023		Successful
Software upgrade	25/01/2023		Pump issues found
Site Visit with Royal Haskonings	15/02/2023		Look at PLC control
Site visit Ballycairn	13/03/2023		Ditto
Site visit Ballycairn	13/03/2023		Issues found with pumps
Ballycairn	15/06/2023		Remediation complete

PLANNED NEXT STEPS FOR DELIVERY
Due to the latency with the original communications, the trial will be extended until Q3 24 -25, Financial year. Assessment of the trial will be carried out Q2/Q3 24-25. Learnings may feed into Wastewater Strategy development for PC27. The Technology Report will be shared with the wider Business.
PROPOSED MAINTENANCE EXPENDITURE / ADDITIONAL OPEX from CAPEX
Ongoing subscription to be £38k/year per zone.
IMPACT OF SCOPE / PROGRAMME CHANGES ON CAPITAL DELIVERY / OUTPUTS PROGRAMME
This project is to assess the feasibility of this platform and the applicability to NI Water. No further capital projects have been progressed at this stage.
IMPACTS ON CAPITAL OUTPUTS PROGRAMME LINKED TO TABLES 40, 40a & 40b

Links to Tables Completed	Yes ☐	No ☐	Comments N/A – no capital projects as yet

RISKS & ISSUES ASSOCIATED WITH THIS DEVELOPMENT OBJECTIVE
Key risks are as follows • Cost / benefit analysis may indicate that value is not achievable • Telemetry system is not suitable and will require significant upgrades – this is a likely outcome if the solution is expanded to other areas. Note that telemetry constraints have now been resolved for the trial area • Peak flow reduction may not be achieved
WIDER BENEFITS OF THIS DEVELOPMENT OBJECTIVE
Solution may support the reduction of maximum flows to the WwTW (to be proven) Additional analysis may be used from the system to identify potential asset failures – e.g. pump efficiencies. We have been able to identify issue with the pumping stations. The ability to identify pump performance issue resulted in a £50k Saving. We will continue to assess through the first 2 quarters of 24/25 the potential for further roll out across the network. The information from the trial may be used to support other projects across the company.
LINKAGE TO OTHER DEVELOPMENT OBJECTIVES
There is a linkage to DO 13 (Real time network modelling) – further development work on this DO will establish the linkage and interdependencies. There is a linkage to DO 15 (Innovation Initiatives). The linkage is through knowledge sharing of the benefits and sharing the report when it is produced.

Development Objective – Expenditure Summary

Table DO1 Expenditure on Development Objective (Nominal Prices)

Category	Spend to End March 2024 (£m)	Anticipated Future Spend (£m)	Anticipated Total DO Spend (£m)	Comment
Civil				
M&E				
Materials / Equipment		£0.203m	£0.203m	Radio communication and pumps
NIE				
Lands				
Site Investigation				
Consultancy				
Pilot Studies	£0.170m		£0.170m	No addition after the end of Mar 23
Add Others as necessary	£0.061m	£0.299m	£0.360m	For subscription costs
Totals	**£0.231m**	**£0.502m**	**£0.733m**	
PC21 Projected Spend on Development Objective			**£0.733m**	Estimate is £0.6m from Annex T indexed to nominal prices

DEVELOPMENT OBJECTIVE [DO]		
Ref	Development Objective	Sub-Programme
15	**Innovation Initiatives**	**20**

GOVERNANCE

Directorate	SRO	Project Lead
AD	[redacted]	[redacted]

REASON DEVELOPMENT OBJECTIVE IS NECESSARY

Innovation projects are required to ensure NI Water keep up to date with new and efficient techniques. Innovation projects by their nature are difficult to identify in advance but NI Water are continually striving to be innovative and use new techniques that may provide the desired efficiencies. The funding being applied for the PC21 period is to pilot and trial new technologies to assess their benefits and potential integration into business as usual. The funding will not be used for full scale integration.

DEVELOPMENT OBJECTIVE TO CONFIRM SOLUTION SPEND IN PC21 &/or PC27

PC21 only ☐	PC27 only ☐	PC21 and PC27 ☒

PROJECT SCOPE

- To develop a more focused Innovation Programme to cover key areas identified by the business as being critical and linked to NI Water's vision and values. To be more proactive and seek solutions to specific questions.
- Innovation initiatives in the areas of: Capital Efficiencies; Operational Efficiencies; and Future Innovation.
- Pilot studies and trials of new technologies to assess their benefits and potential integration into business as usual.

COMMENTARY ON MATERIAL CHANGES TO SCOPE

N/A

PROJECT OUTCOMES

- Capital Efficiencies -To identify and evaluate processes that can provide capital efficiencies through trials and pilot projects.
- Operational Efficiencies- To identify and evaluate processes that can provide OPEX efficiencies.
- Future Innovation - innovations that will take place over the PC21 period and in particular areas that are not directly related to efficiencies.
- NI Water will concentrate efforts on those innovative initiatives likely to benefit us the most.

COMMENTARY ON MATERIAL CHANGES TO PROJECT OUTCOMES

N/A

UR MONITORING EXPECTATIONS

Progress on the delivery of this objective will be monitored and reported on through the annual cost and performance report process as a minimum. In addition, we expect NI Water to:

- Develop and submit an updated programme for the delivery of this objective.
- Engage with UR staff on the timing of additional engagement, reviews and the determination of any outcomes flowing from the successful completion of the development stages. Provision of an update on the focus areas identified, innovation programme (once developed) and the outcome of subsequent trials and pilots is likely to be required as part of the engagement process.

HOW UR MONITORING EXPECTATIONS HAVE BEEN FULFILLED
UR advised of progress in Annual Information Returns 2022, 2023 and 2024. NI Water will be engaging with the UR as part of the PC27 Business Planning process regarding innovation.
PROGRAMME
See Master DO Programme v1 dated 30/06/24.
KEY MILESTONES FOR DEVELOPMENT OBJECTIVE

Description Key PC21 FD DO Milestones	**FD21 Annex T Milestone Target Date**	**Status Vs FD21 Target**	**Current Milestone Target Date**	**Status Vs Current Target**	**Commentary on Material Milestone Date Changes *AND / OR* Reasons for any material Delay**
Submit updated programme to UR	TBC	Complete	July 22	N/A	N/A
Engage with Regulators	TBC	Complete	July 22	N/A	Meetings held with Regulators at several WTW with pilot trials. Innovation Programme shared in AIR Returns
Update UR on focus areas, innovation programme and trials/pilots	TBC	Complete	July 22	N/A	N/A
Innovation strategy workshop to review key business areas and identify opportunities to be progressed during PC21	Feb/Mar 20	Complete Workshop held 10/06/2022	June 2022	N/A	Covid delays and slower recruitment than anticipated during PC21 period. The November 2021 EC/Board Risk Committee helped focus innovation in NI Water.
Obtain Board approval for innovation “focus areas”	April/May 20	Complete	November 2021 and 2022	N/A	Presentations made on NI Water Innovation to EC/Board Risk

					Committee in Nov 21 & 22.
Develop Innovation Programme for 2021–23 comprising list of specific innovation trials and pilots to cover first two years of PC 21	Oct 20	Complete	NO CHANGE	N/A	N/A
Prepare individual pilot and trial project business cases	TBC	On-Going	NO CHANGE	N/A	N/A
Tender of approved pilot and trial projects	TBC	On-Going	NO CHANGE	N/A	N/A
On-site trials and evaluation of results and benefits	TBC	On-Going	NO CHANGE	N/A	N/A
Annual review of outputs from programme of pilots/trials by the Asset Delivery Director	Dec 22	Delayed	April 23	Complete	It was decided to move this meeting to the end of the financial year rather than the end of the calendar year. Otherwise the activity is complete with no impact on the Innovation Programme.
Annual review of outputs from programme of pilots/trials by the E & S Director	Nov 23	On Going	Dec 23	Complete	Review was held on 21st November with new Engineering & Sustainability Director

PC27 Innovation Decision Point	Dec 25				Decision point on DO15. To be based on PC27 Business Case development, continuation into PC27 period or stop by the end of PC21. NB Draft Outline Capital Submission is June 2025.
KEY MILESTONES FOR SOLUTION INVESTMENT					
Roll-out of successful pilot projects. (As dictated by detailed programme)	TBC	N/A	July 22 and 23	N/A	Programme being rolled out and shared in AIR returns.
EXPENDITURE [state cost base for all costs e.g. FY18/19 – See Also Table DO1 below]					
FD21 Annex T Estimated Total Cost of DO (2018/19 prices)		**Forecast Cost of DO (Nominal Prices)**		**Commentary on Material Total Cost Changes for DO**	
£2.22m		£2.892m		There are no material changes of significance between AIR23 (£2.84m) and AIR24 (£2.892m). The minor differences are due to changes in the Office of Budget Responsibility RPI forecast.	
PC21 FD Estimated Cost of Solution (2018/19 prices)		**Forecast Cost of Solution (Nominal Prices)**		**Commentary on Material Solution Cost Changes**	
£2.22m		Wastewater = £674k Water = £2194k Overall forecast = £2.868m		£674k is based on delivered and those wastewater projects with a high confidence of delivery within PC21. The remainder of projects on the list are low	

		confidence and would take us above the PC21 FD (Nominal) figure of £2.892m and will potentially be rolled forward into PC27 These projects may also not be progressed due to lack of funds / no suitable sites / partnerships. or they may be superseded by other innovation priorities and be more suited for PC27 investment.

ACTIVITY COMPLETED TO DATE AND OUTCOMES TO DATE (MARCH 2024)

Engage with Regulators

During PC21 NI Water has engaged with regulators such as the Drinking Water Inspectorate via regular compliance meetings and updated them on Pilot WTW projects and has continued to meet with the NIEA / NI Water Investment Group which covers initiatives such as innovative IEM modelling and innovative blue/green pilot solutions.

Furthermore, the PC21 Environmental Quality Group has been re-established and meets to discuss the wastewater programme notably infrastructure and UIDs. This will involve discussion of sustainable and cost proportionate wastewater capital solutions, their catchment context in terms of environmental performance outcomes in the receiving environment as informed by Integrated Environmental Modelling (IEM) e.g., in Dundrum Bay.

Innovation strategy workshop to review key business areas and identify opportunities to be progressed during PC21.

A review was completed during 2021 – "Bringing Innovation Out of The Shadows and associated Case Studies (November 2021)." The Innovation Review identified focus areas and the findings of the Innovation Review were placed on NI Water's external website in July 2022.

A workshop was held on 10th June 2022 to review Wastewater Innovation Strategy. It identified priorities within the 4 main asset types.

Obtain Board approval for innovation "focus areas".

As directed by the NI Water business the innovation assessment and focus areas were presented to the EC Risk Committee in November 2021 and an update was provided in November 2022.

Develop Innovation Programme for 2021 – 2023 comprising list of specific innovation trials and pilots to cover first two years of PC 21

The target completion dated for this objective has been revised to Dec 2023. NI Water staff were recruited as Efficiency and Innovation Managers in April and June 2022.

An innovation dashboard has been developed to capture and monitor Innovation projects that form part of the "Innovation Programme" being led by the Water and Wastewater

Efficiency and Innovation teams. In addition, it is anticipated that this dashboard will also capture other innovative projects being delivered within the business.

Given the nature of Innovation, this dashboard is regularly updated, both to include new processes and equipment for inclusion within the Innovation Programme, but also to reject those items that on further investigation do not fit with business needs.

Prepare individual pilot and trial project business cases.

Ongoing throughout the PC21 period. Individual pilots and trials have been progressed within the capital programme and have used early contractor involvement and some small technology trials have been at no cost to NI Water.

Tender of approved pilot and trial projects

This is dictated by detailed programme and is ongoing throughout the PC21 period. Company frameworks and procurement processes have been followed as required by the programme and followed NI Water governance.

On-site trials and evaluation of results and benefits

(Within two months of trial completion)

Several pilots and trials have been successfully completed by Efficiency and Innovation staff in Investment Management and used to inform innovative NI Water capital solutions for investment during PC21 and in PC27, particularly in water non-infrastructure.

Estimated DO15 costs associated with planned innovative pilot trials aimed at delivering Capex and Opex efficiencies via new technologies and optimization assessments are presented in the Solution Investment Table below. The results of these trials / studies will be reported on their completion.

Annual review of outputs from programme of pilots / trials by the Asset Delivery Director

There are regular meetings held with the AD Director and Head of Asset Management on Innovation and a formal review with the AD Director is held at the end of each financial year.

Meetings have been held with the new Engineering and Sustainability Director on 21st November 2023 and 12th February 2024.

(Include single line reference going forwards for completed projects to date in **AIR25**).

See Table Below on next page for Activities Completed to Date.

NB This is the Innovation Programme

Description	Reason for Doing	Original Target Date	Status vs Original Target Date	Original Cost Estimate	Current Target Date	Status vs Current Target Date	Current Estimated Cost/Spend	Comments
Anney's Well Borehole.	To evaluate the performance of filter media in treating the Anney's Well borehole water and the feasibility of introducing the treated water into different stages of Lough Fea WTW.	July 22 - Aug 22	Completed	[redacted]	N/A	N/A	£0k	Completed under JB742 (£0k). Anney's Well Borehole Scheme Investigations. **Report in folder.**
Castor Bay Filter Media Trial.	To evaluate the performance of [redacted] in primary filters for reduction of THMs. Also, for filter optimisation.	Sept 22 - Oct 22	Completed	[redacted]	N/A	N/A	[redacted]	Completed under JG094. Total cost [redacted] **Report in folder.**
Dunore Point Filter Media Trial.	To evaluate the performance of [redacted] in primary filters for reduction of THM's. Also, for filter optimisation.	Jan 23 - Feb 23	Completed	[redacted]	N/A	N/A	[redacted]	Completed under JA342. Total cost [redacted] **Report in folder.**
Algae Control	To trial new innovative ultrasonic technology ([redacted]) to aid in Algae Control and Clay Lake WTW. This will improve the lakes composition in water quality parameters.	Install & Commission July 22	Delayed	[redacted]	Oct 22	Completed	[redacted]	Commissioning completed Oct 22 under project JF622. Currently collecting data. **Full Report to follow in due course once the efficacy of the unit has been assessed. Continuing to collate data.**
Ballinrees Filter Media Trials	To evaluate the performance of [redacted] in primary filters for reduction of THMs.	Jul 22 to Dec 22	Completed	[redacted]	N/A	N/A	[redacted]	Completed under JC406. Total cost [redacted] **Report in folder.**

Description	Reason for Doing	Original Target Date	Status vs Original Target Date	Original Cost Estimate	Current Target Date	Status vs Current Target Date	Current Estimated Cost/Spend	Comments
	Also, for filter optimisation.							
Gortglenaghan & Shanmoy Boreholes	*Evaluate [redacted] treatment for Borehole water.*	*Feb 23 to Mar 23*	*Superseded by Project below*	[redacted]	*N/A*	*N/A*	*N/A*	*Superseded by the Project immediately below:*
Gortglenaghan Borehole & THM Analyser	Evaluate [redacted] treatment for Borehole Water and purchase and install In-Line THM Analyser to prove the efficacy of the technology.	Mar 23	Completed	[redacted]	N/A	N/A	[redacted]	Gortglenaghan Borehole complete. **Report in Folder.** THM Analyser purchased and installed 17/04/23. Report to follow in due course after running system for a minimum of 6 months to prove the efficacy of the analyser. Continuing to collate data.
						Total Spend to Date (Water Team)	[redacted]	
Fats Oils and Grease (FOG) removal trial	Start of Project information gathering/scope confirmation.	Apr 22	Completed	£0k	N/A	N/A	£0k	Free Proof of Concept Trial Completed.
[redacted] Trial	Start of project information gathering / scope confirmation/ Site Selection.	Jun 22	Rejected	£0k	N/A	N/A	N/A	Rejected during scoping exercise based on bed blinding issues encountered by other water companies.
[redacted] (Phase 2 - Scoping)	[redacted] (Phase 2) in Newry and Dungannon area (Wastewater network discharge monitoring).	Apr 22	Completed	£0k	N/A	N/A	N/A	Scoping Completed

Description	Reason for Doing	Original Target Date	Status vs Original Target Date	Original Cost Estimate	Current Target Date	Status vs Current Target Date	Current Estimated Cost/Spend	Comments
	Start of Project information gathering / scope confirmation.							
Low Temperature Anaerobic WW treatment	Low Temperature Anaerobic WW treatment Start of project information gathering / scope confirmation/ Site Selection.	Apr 22	Paused	N/A	N/A	N/A	N/A	
[redacted]	[redacted] Digital Twin- Start of project information gathering / scope confirmation (Early engagement)	Apr 22	Rejected Aug 22	£0	N/A	N/A	N/A	Rejected during scoping exercise
[redacted] sludge	[redacted] sludge trial Start of project information gathering / scope confirmation.	July 22	Complete	N/A	N/A	N/A	N/A	
Fats Oils and Grease (FOG)	Fats Oils and Grease (FOG) removal trial 12 Month on site trial.	Mar 23 to Mar 24	Completed	[redacted]	Same as original	Completed	[redacted]	Complete. Report available.
[redacted] sludge trial pilot	[redacted] sludge trial pilot live – being PM by operations trial commenced Mar 23.	Mar 23 to Jan 24	Completed	[redacted]		Complete	[redacted]	Pilot was completed by C&OD staff. Report to follow.
[redacted]	[redacted] - to evaluate the improvement in flocculation / treatment quality & capacity achieved that may be achieved - Start of Project information gathering/scope confirmation.	Mar 23 to April 25	Trial Completed	TBC on site selection estimated at [redacted]	April 24	Complete	[redacted]	Small scale pilot complete. Report available.

Description	Reason for Doing	Original Target Date	Status vs Original Target Date	Original Cost Estimate	Current Target Date	Status vs Current Target Date	Current Estimated Cost/Spend	Comments
					Total Spend to Date (Ww Team)		[redacted]	**Staff resources used for scoping projects and free proof of concept trial completed.**
PLANNED NEXT STEPS FOR DELIVERY (See Table Below for Next Steps for Delivery)								
Description	**Reason for Doing**	**Original Target Date**	**Status vs Original Target Date**	**Original Cost Estimate**	**Current Target Date**	**Status vs Current Target Date**	**Current Estimated Cost/Spend**	**Comments**
Camlough WTW	*To evaluate the feasibility of bringing Camlough WTW back on-line. The 12-month trial involves new innovative technologies.*	*2022/23*	*Superseded to Project Below*	*£200 - £300k*	*N/A*	*N/A*	*N/A*	*Superseded by the Project immediately below:*
Nano-Filtration Pilot	To prove the efficacy of Nano-Filtration using Moyola site as a base for use of water source and disposal of brine. Nano-Filtration is a chemical free treatment process. Small footprint for the volume of water treated. Potential option for water resilience and additional drinking water supply in the future. Moyola has been selected as a site that requires an upgrade in output of a minimum of 5MLD. Nano-Filtration is an option to use for 5MLD	Started Feb 23 Completion Aug 24	On-Target	£441k	Completion date moved to April 25 to allow 10 months of data collection to prove the efficacy of the system.	Start date achieved. Completion date extended. Delays in delivery of the Nano-filtration system.	£495k	Nano-Filtration unit going straight to Moyola WTW to join up with Pilot Plant. Moyola has been selected as site that requires an upgrade in output of a minimum of 5MLD. Nano-Filtration is an option to use for 5MLD depending on performance during the trial. Pilot Plant trial to start circa July/Aug 23 for a period of 1 year. Nano-filtration currently being installed and commissioned at Moyola WTWs Pilot Plant. Due to be

Description	Reason for Doing	Original Target Date	Status vs Original Target Date	Original Cost Estimate	Current Target Date	Status vs Current Target Date	Current Estimated Cost/Spend	Comments
	depending on performance during the trial.							operational by the end of May 24. (NB In financial year 2022/23 [redacted] was invested to place the order for the Nano-filtration unit).
Site Filter Investigations (Multiple Sites)	To investigate all media types used in filtration within various treatment plants.	Feb 23 - Mar 24	On-Target	[redacted]	Same as Original	On-Target	[redacted]	On-going site investigations. Report to follow. NB [redacted] invested in 2022/23.
Lough MaCrory WTW	*Install [redacted] into two remaining Primary Filters. Upgrade Poly Pumps.*	*Nov 21 - Sep 22*	*Delayed*	[redacted]	*N/A*	*N/A*	*N/A*	*Delayed.* Small trial conducted Liaison with C&OD (operations) required on the way forward.
Clay Lake WTW	*Media Replacement & Chemical Treatment Optimisation.*	*Mar 22 - Sep 23*	*Delayed*	[redacted]	*N/A*	*N/A*	*N/A*	Delayed due to a change in the plan. In 2023/24 a base maintenance Team replaced the media and the Innovation Team are to evaluate performance over the next 2 years.
Glenhordial WTW	Full site Optimisation.	Mar 23 - Mar 24	On-Target	[redacted]				
Seagahan WTW	Full site Optimisation.	Mar 23 - Mar 24	On-Target	[redacted]				
Dorisland WTW	Full site Optimisation.	Mar 23 - Mar 24	On-Target	[redacted]				
Caugh Hill WTW	[redacted] *Plant Trial.*	*Aug 22 - Aug 23*	*Superseded to below Project*	[redacted]	*N/A*	*N/A*	*N/A*	*Superseded to immediate below Project.*

Description	Reason for Doing	Original Target Date	Status vs Original Target Date	Original Cost Estimate	Current Target Date	Status vs Current Target Date	Current Estimated Cost/Spend	Comments
								[redacted] *Trial will be getting set-up with a full-scale Pilot Plant.* *Deferred start September 2024*
[redacted] nits.	To purchase and Install 10 x [redacted] Units to prove the Efficacy of the technology.	Apr 23 - Sep 23	On-Target	[redacted]	Same as Original	N/A	[redacted]	All units installed in 2023/24 and this was when the [redacted] was invested. Currently collating data.
Belleek WTW	*Install [redacted] media in primary filters with associated relocation of chlorine dose. This will facilitate an efficiency through the removal of Manganese filters.*	*Aug 22 - Jan 23*	*Delayed*	[redacted]	*N/A*	*N/A*	*N/A*	*Base maintenance activity is underway to establish the design capacity of filters and their backwashing rate i.e. to establish basic parameters. The project will be reviewed in 2024.*
Second Filter Media Trailer, including Particle Size and Colour Analysers	With the amount of work required a second filter media trailer is recommended.	Summer/Autumn 22	Build Subject to Budget Approval	[redacted]	Summer 23	On-Target	[redacted]	Equipment ordered and investment made and constructed on site.
Moyola WTW Filter Media Trial.	To evaluate the performance of [redacted] in primary filters for reduction of THMs. Also, for filter optimisation.	July 23 - Aug 23	On-Target	[redacted]	Same as Original	N/A	[redacted]	Equipment ordered and investment made and constructed on site. Report to follow.
Particle Size Analysers	**To enable NI Water to analyse the particles remaining in the water after filtration to prove the efficacy**	**Feb 23 - Dec 24**	**On-Target**	[redacted]	**Same as Original**	**N/A**	[redacted]	**Particle size analysers currently installed at Drumaroad WTWs and in the New Filter**

Description	Reason for Doing	Original Target Date	Status vs Original Target Date	Original Cost Estimate	Current Target Date	Status vs Current Target Date	Current Estimated Cost/Spend	Comments
	of the various filter medias.							**Media Trial Unit. Currently collating data to prove the efficacy of the analysers.**
Equipment and Monitoring	**To install new to the market monitoring equipment for Turbidity, UV_{254}, Colour, pH, Temperature, and DOC monitoring. This equipment operates without the need for additional chemicals and reagents.**	**Dec 23 - Dec 24**	**On-Target**		**Same as Original**	**N/A**		**equipment has been installed at various WTWs. Initial analysis shows the equipment to be working well. Continuing to evaluate data.**
Magnet Research	**The magnet will be used to evaluate how much and at what point is being lost at Killyhevlin WTWs.**	**Sept 23 - Sept 24**	**On-Target**		**Same as Original**	**N/A**		**Initial results have shown that Killyhevlin WTWs is losing approximately 12 barrels of per week. On-going investigations at various points within the WTWs to investigate how to stop the losses.**
						Total Cost on On-Going Projects (Water Team)		**(Nominal £)**
						Total Spend to Date on On-Going Projects (Water Team)	£0k	
						Total Spend to Date on Completed Projects (Water Team)		**(Nominal £)**
						Total Overall Cost (Water Team)		**(Nominal £)**

Description	Reason for Doing	Original Target Date	Status vs Original Target Date	Original Cost Estimate	Current Target Date	Status vs Current Target Date	Current Estimated Cost/Spend	Comments
[redacted] (Phase 2)	[redacted] (Phase 2) in Newry and Dungannon area (Wastewater network discharge monitoring). 12 Month on site trial.	May 23 to May 24	Completed	[redacted]	Same as original	Completed on Target	[redacted]	Site trials completed Assessment and final report in progress.
Low Temperature Anaerobic WW treatment	Low Temperature Anaerobic WW treatment. Limited applicability to NI Water sites. Project suspended awaiting results of OFWAT funded trial being led by Thames Water.						£0k	Project suspended awaiting results of OFWAT funded trial being led by Thames Water.
Oxidation Ditch Retrofits	Oxidation Ditch Retrofits - Start of project information gathering / scope confirmation/ Site Selection.	Sept 22	Deferred	[redacted]	May 26	-Deferred	[redacted](L)	Estimated at £500k, dependent on-site selection (L) and funding availability
[redacted] Pilot trials	[redacted] Pilot trials- Start of project information gathering / scope confirmation/ Site Selection. Liaison with Severn Trent.	Apr 22	Completed	TBC		**Complete**	**Nil**	From information. Obtained from Severn Trent Process accepted for BAU without need for trial.
[redacted] sludge trial pilot	[redacted] sludge trial pilot live – being PM by operations trial commenced Mar 23.	Mar 23 to Jan 24	Completed	[redacted]		**Complete**	[redacted]	Pilot was completed by C&OD staff. Report to follow.
[redacted]	[redacted] – A potentially more energy efficient / effective method of aeration	Dec 22 to Mar 25	Scoping - discussions ongoing with supplier	Estimated at [redacted] (M)	**Mar 26**	**On going**	[redacted](M)	Estimated at [redacted](M) **delayed due to staffing issues.**

Description	Reason for Doing	Original Target Date	Status vs Original Target Date	Original Cost Estimate	Current Target Date	Status vs Current Target Date	Current Estimated Cost/Spend	Comments
	small scale pilot investigations. (A free of charge) proof of concept trial was completed in Dec 22.							
[redacted]	[redacted] to evaluate the improvement in treatment quality & capacity achieved that may be achieved by the addition of [redacted] a form of [redacted]. Start of Project information gathering/scope confirmation.	Mar 23 to Feb 25	Delayed	TBC on site selection estimated [redacted] (M)	**Mar 27**	**On going**	[redacted] (M)	TBC on site selection estimated £200k (M) **Jar tests complete. suitable site and impact on incinerator being evaluated.**
Static Sludge Thickener	Static Sludge Thickener to evaluate the improvement in sludge quality achieved by the use of a static thickener. Start of Project information gathering/scope confirmation.	Mar 23 to June 23	Rejected	TBC on site selection estimated [redacted] (L)	**N/A**		**Nil**	Technology not suitable for our sites due to sludge quality requirements.
[redacted]	[redacted] - A low footprint alternative to Primary Settlement Tanks that can be also used for peak lopping Start of Project information gathering/scope confirmation.	Oct 23 to Oct 24	Delayed due to site and funding identification	Estimated [redacted] (L)	**March 26**	**On target**	[redacted] **(L)**	Site identified for delivery through WW Regulation Reform.
[redacted]	[redacted] A low footprint alternative to	Oct 23 to Dec 24	On going	TBC on site selection	**Mar 27**	**On target**	[redacted]	TBC on site selection Estimated [redacted] (L)

Description	Reason for Doing	Original Target Date	Status vs Original Target Date	Original Cost Estimate	Current Target Date	Status vs Current Target Date	Current Estimated Cost/Spend	Comments
	Primary Settlement Tanks that can be also used for peak lopping Start of Project information gathering/scope confirmation.			Estimated £250k (L)				Regulation Reform team approached for site selection.
[redacted] Intelligent Sewer Suite	[redacted]r Intelligent Sewer Suite Wastewater network optimisation using machine learning and hyperlocal rainfall forecasting. Start of Project information gathering/scope confirmation.	Sep 23 to Aug 25	Removed being taken forward by others	TBC on site selection Estimated £250k (M)	**N/A**	**N/A**	**Nil**	Being taken forward by others within the business.
[redacted] Filter media	[redacted] Filter media Plastic Structured Cross Flow Media for filters. Improved capacity and quality Start of Project information gathering/scope confirmation.	Jul 23	Delayed	TBC on site selection Estimated [redacted] (L)	**Mar 27**	**On target**	[redacted]	TBC on site selection Estimated [redacted](L).
[redacted]	[redacted] A phosphorous removal process based on a resin and ion exchange Start of Project information gathering/scope confirmation.	Mar 24 to April 25	Awaiting Triage	TBC on site selection Estimated [redacted](L)	**May 25**	**On Target**	[redacted]	TBC on site selection Estimated [redacted] (L).
Screenless CSOs	Screenless CSOs A CSO design that is modular in construction	May 23 to June 25	Awaiting Triage	TBC on site selection	**June 26**	**On target**	[redacted]	TBC on site selection Estimated [redacted](L).

Description	Reason for Doing	Original Target Date	Status vs Original Target Date	Original Cost Estimate	Current Target Date	Status vs Current Target Date	Current Estimated Cost/Spend	Comments
	and is designed to prevent litter pollution from entering the environment at the CSO. Start of Project information gathering/scope confirmation.			Estimated [redacted](L)				
[redacted]	Improve settleability, increases treatment capacities, provides increased simultaneous nutrient removal and optimizes process stability.	**Mar27**	**Awaiting Triage**	**[redacted](L)**	**Mar 27**	**On Target**	[redacted]	TBC on site selection Estimated [redacted] (L).
[redacted]	Real time Nitrate and Nitrite Analyser process control in the aeration basin for reduced energy consumption and/or reduced nitrous oxide emissions.	**April 24**	**Delayed**	**[redacted](H)**	**Dec24**	**On target**	[redacted]	**Delayed due to funding constraints. Trial estimated at 40k (H).**
Real-time AI biological monitoring	Optimised control and monitoring of WwTWs	**Dec 24**	**On target**	**FOC**	**Dec 24**	**On target**	[redacted]	**Trial at [redacted] NI Water.**
[redacted] pyrolysis of raw sewage sludge	pyrolysis of raw sewage sludge with a bioproduct called biochar which has good circle economy potential.	**Dec 24**	**Awaiting Triage**	**TBC**	**Dec 24**	**On Target**	**TBC**	TBC on site selection still at triage stage.
FOG Removal [redacted]	**Control of FOG within network and energy savings.**	**Jul 24 – Jan 25**	**On target**	**[redacted] M)**	**Jul 24 – Jan 25**	**On Target**	**[redacted](M)**	TBC on site selection Estimated [redacted] (M).

Description	Reason for Doing	Original Target Date	Status vs Original Target Date	Original Cost Estimate	Current Target Date	Status vs Current Target Date	Current Estimated Cost/Spend	Comments
[redacted] Process	Process intensification / Sludge reduction.	**Jul 24 – Mar 25**	**On target**	**TBC**	**Jul 24 – Mar 25**	**On Target**	**TBC**	TBC on site selection still at triage stage.
						Wastewater Total Spend to Date on Completed Projects	[redacted]	
						Wastewater Total Spend to Date on On-Going Projects	**£0**	
						Potential Wastewater Spend (High Confidence)	[redacted]	[redacted] **Business case Prepared.**
						Potential Wastewater Spend (Medium Confidence)	[redacted]	**Still being assessed.**
						Potential Wastewater Spend (Low Confidence)	[redacted]	**Still being assessed.**
						Two additional projects are still in the process of cost estimation		

PROPOSED MAINTENANCE EXPENDITURE / ADDITIONAL OPEX from CAPEX			
N/A			
IMPACT OF SCOPE / PROGRAMME CHANGES ON CAPITAL DELIVERY / OUTPUTS PROGRAMME			
N/A			
IMPACTS ON CAPITAL OUTPUTS PROGRAMME LINKED TO TABLES 40, 40a & 40b			
Links to Tables Completed	Yes ☐	No ☐	No linkage to Table 40a or 40b projects. The delivery of the innovation projects will of course be reflected in Table 40 but with no linkage or impact on any other scheme in PC21.

RISKS & ISSUES ASSOCIATED WITH THIS DEVELOPMENT OBJECTIVE

Innovation is associated with inherent risk. This is managed by conducting scoping phases, small scale pilots and where sufficient data is available the conduct of full-scale trials at carefully selected sites and frequently using offline test systems.

WIDER BENEFITS OF THIS DEVELOPMENT OBJECTIVE

Water and Wastewater capital and operational efficiencies opportunities are identified, and innovation moves into BAU.

LINKAGE TO OTHER DEVELOPMENT OBJECTIVES

The Innovation Case Studies document (2021) illustrates some links with other Development Outputs such as:

- DO5 - Refresh of DG2 Register. **DO Closed**
- DO9 - WwPS / CSO Quality (UID) and WwPS Capacity increase. **DO Closed**
- DO13 Real Time Network Modelling. There is linkage via Head of Investment Management and the Wastewater Efficiency and Innovation Manager with the Head of Wastewater Strategy regarding the planning of trial studies to ascertain the benefits and mechanisms to allow NI Water to transition toward real time network modelling in specific networks. This linkage is through knowledge sharing of the benefits. When appropriate there will be engagement with NIEA via the Investment Group chaired by the Head of Investment Management.
- DO 14 Live Network Models for IOC. There is linkage through knowledge sharing of the benefits and sharing the report when it is produced.
- DO16 Urban Drainage Modelling - Studies to Inform PC27 - Top 271 Priority Drainage Areas. There is linkage via Head of Investment Management, Capital Programme Manager, Wastewater Efficiency, and Innovation Manager with the Head of Wastewater Strategy regarding DAPs required for scope certainty and their interdependency with D09 as stated above. This linkage is through knowledge sharing of the benefits.
- DO19 LWWP Networks. Similar linkage and synergies to D09, D013 and D016 via Investment Management and the Wastewater Efficiency and Innovation Manager and the NIEA/ NIW Investment Group. This linkage is through knowledge sharing of the benefits.

DEVELOPMENT OBJECTIVE [DO]		
Ref	Development Objective	Sub-Programme
16	**Urban Drainage Modelling - Studies to Inform PC27 - Top 271 Priority Drainage Areas**	**20g**

GOVERNANCE		
Directorate	**SRO**	**Project Lead**
AD	[redacted]	[redacted]

REASON DEVELOPMENT OBJECTIVE IS NECESSARY

This is required as NI Water's hydraulic models are key assets used to inform strategic studies, the Capital Works Programme and infrastructure planning. At the end of PC15, over 50% of NI Water's model stock was around 15 years old and has not been maintained.

Up to date models are required to inform scope certainty for named UID projects in PC21 and to inform needs for PC27 planning.

DEVELOPMENT OBJECTIVE TO CONFIRM SOLUTION SPEND IN PC21 &/or PC27

PC21 only ☐	**PC27 only ☐**	**PC21 and PC27 ☒**

PROJECT SCOPE

Develop the scope and specification for the network models for the Top 271 Priority Drainage Areas including the extent of modelling and verification required.

No change to scope definition.

COMMENTARY ON MATERIAL CHANGES TO SCOPE

N/A

PROJECT OUTCOMES

Enhancing NI Water's ability to successfully address a number of its core areas:

- Economy – modelling will support growth planning decision making.
- Environment – Investigate over 1000 network assets where impact to environment is unknown.
- Customer – minimise the duration and maximise the accuracy of increasing levels of customer service and decreasing risk to the business.

The following provides more detail for the abovementioned original Project Outcomes:

- Scope certainty achieved for 111 UIDs, informed by DAP studies
- Evidence from DAPs has also facilitated the de-scoping/removal of UIDs from the PC21 programme
- Studies have contributed to over £150M of capital efficiencies, with an additional confirmed capital efficiency (in year) of £173M, with potential for more savings in PC21 and PC27 (NIEA submission tracker)
- To date, PC21 DAPs have identified 958 UIDs (Discharge Register)

Key Deliverables:

- Hydraulic Models
- Capital Recommendations

COMMENTARY ON MATERIAL CHANGES TO PROJECT OUTCOMES

N/A

UR MONITORING EXPECTATIONS

Progress on the delivery of this objective will be monitored and reported on through the annual cost and performance report process as a minimum. In addition, we expect NI Water to:

- Develop and submit an updated programme for the delivery of this objective.

- Engage with UR staff on the timing of additional engagement, reviews and the determination of any outcomes flowing from the successful completion of the development stages.
- Engage with NIEA to agree priorities and the programme for delivery as required.

HOW UR MONITORING EXPECTATIONS HAVE BEEN FULFILLED

Table 40b outlines DAP programme.

NIW provide NIEA with monthly progress updates on DAP progress through the Wastewater Investment Group. NIW has developed a dashboard which tracks progress, provides visibility of priorities and future workload planning.

PROGRAMME

Refer to Table 40b.

See Master DO Programme v1 dated 30/06/24.

KEY MILESTONES FOR DEVELOPMENT OBJECTIVE

Description Key PC21 FD DO Milestones	**FD21 Annex T Milestone Target Date**	**Status Vs FD21 Target**	**Current Milestone Target Date**	**Status Vs Current Target**	**Commentary on Material Milestone Date Changes *AND / OR* Reasons for any material Delay**
Develop and submit an updated programme for the delivery of this objective.	N/A	N/A	June/ July 2022 (AIR 22)	Complete	See annual AIR submissions
Engage with UR staff on the timing of additional engagement, reviews and the determination of any outcomes flowing from the successful completion of the development stages	N/A	N/A	2023-25	Ongoing	Extended to 2025 due to NI Water team structure changes
Engage with NIEA to agree priorities and the programme for delivery as required	N/A	N/A	2021-26	On Target	N/A
Model Builds – Batch 1, 2 and 3	2021/22	Superseded	N/A	N/A	Original milestone superseded by

					individual Batch 1, 2 and 3 milestones below
Model Builds – Batch 4,5, and 6	2022/23	Superseded	N/A	N/A	Original milestone superseded by individual Batch 1, 2 and 3 milestones below
Model Builds – Batch 7 and 8	2023/24	Superseded	N/A	N/A	Original milestone superseded by individual Batch 1, 2 and 3 milestones below
Model Builds – Batch 1 – released date March 21	N/A	N/A	Completion Mar 22	Complete	AIR22 had Q4 2022 (meaning end Q4 financial year 2021/22. See sample evidence provided for Table 40b
Model Builds – Batch 2 – release date July 22	N/A	N/A	Anticipated Completion end 24	Delayed	AIR22 had Q3 2023 (meaning end Q3 financial year 2023/24) AIR24, half Batch 2 models completed by Mar 24, remaining due by Jun 24. Delay due to extended survey needs
Model Builds – Batch 3 – release date March 23	N/A	N/A	Anticipated Release date Mar 25	Delayed	AIR22 had Dec24. Release date to be delayed until end of 2024/25 to ensure remaining planned list of DAPs is rationalised based on changing circumstances to facilitate delivery of PC27 solutions. This delay does not

					affect PC21 delivery.
Model Builds – 2024 – release date May 24	2024-27	On target	2027	On Target	The remaining planned list of DAPs is rationalised for issue, based on changing circumstances to facilitate informing PC27 planning.
Model Maintenance	2021-27	On target	2021-27	On Target	N/A
Confirm Outline Capital Submission Projects List for PC27			June 25	On Target	To inform PC27 Business Plan
Confirm if this DO is continuing for PC27			June 25	On Target	Decision point on status of DO to inform PC27 BP
KEY MILESTONES FOR SOLUTION INVESTMENT					
Capital Interventions	PC27	On target	PC27	On Target	Under the remit of Capital Delivery
EXPENDITURE [See Also Table DO1 below]					
FD21 Annex T Estimated Total Cost of DO (2018/19 prices)		**Forecast Cost of DO (Nominal prices)**		**Commentary on Material Total Cost Changes for DO**	
£7.77M		£9.775M		£9.775M is reforecast best estimate to complete scope of DO16.	
PC21 FD Estimated Cost of Solution (2018/19 prices)		**Forecast Cost of Solution (Nominal prices)**		**Commentary on Material Solution Cost Changes**	
TBC		TBC		N/A	
ACTIVITY COMPLETED TO DATE AND OUTCOMES TO DATE (March 2024)					
Following completion of the PC21 business plan, the original batches for DAP delivery were streamlined into 3 sprints to simplify delivery (thus replacing previous references to Batches 1-8). Reference sample evidence provided for Table 40b. • 189 DAPs and Rural model builds completed to date (Table 40b) • 57 Statement of Needs received from NIEA (recorded on dashboard), a further 11 catchments require Statement of Needs to be issued back from NIEA to NI Water • Approx. 2445 assets are recorded on NIW's Discharge Register, approx. 958 unsatisfactory UIDs, approx. 1231 to be determined and approx. 256 assets are satisfactory • SON Dashboard created and shared on monthly basis with NIEA • Scope certainty achieved for 111 UIDs • Over 43 assets updated onto CAR based on survey data (facilitated through Mark Up process)					

- Model Maintenance was a key recommendation of 2022 NIW Internal Audit. NIW developed a Model Maintenance Strategy by January 2024. This document outlining the proposed approach to model maintenance received feedback from the auditing team which was incorporated.

PLANNED NEXT STEPS FOR DELIVERY

AIR23 planned steps were to:

- complete delivery Batch 2 of DAPs. It was anticipated that these studies (127 number) would be completed by December 2023.
- NI Water will continue to liaise with the Environmental Regulator to ensure timely delivery of environmental drivers as set out in the Statement of Need.
- Model Maintenance activity has commenced and is a key recommendation of 2022 NI Water Internal Audit. Internal Audit has requested that NI Water develop a strategy by January 2024.
- Extract from Audit '*The Network Modelling teams should document procedures including roles and responsibilities, defining a model maintenance methodology, triggers and frequency of maintenance etc'.*

AIR24 planned steps:

It is anticipated that these current DAP and Rural model build studies (61 number) will be completed by March 2025.

Model Maintenance developed and being piloted in AIR24 for several key catchments. Scoping of future model maintenance programme to be developed to inform business case for PC27.

NI Water will continue to liaise with the Environmental Regulator to ensure timely delivery of environmental drivers as set out in the Statement of Need.

PROPOSED MAINTENANCE EXPENDITURE / ADDITIONAL OPEX from CAPEX

N/A

IMPACT OF SCOPE / PROGRAMME CHANGES ON CAPITAL DELIVERY / OUTPUTS PROGRAMME

Outputs have been prioritised to support delivery of PC21 capital delivery programme with scope certainty achieved for all 12b nominated schemes.

In addition, Batch 1 and Batch 2 completion will ensure that Needs can be fed into PC27 planning thus avoiding any future scope certainty submissions.

IMPACTS ON CAPITAL OUTPUTS PROGRAMME LINKED TO TABLES 40, 40a & 40b

Links to Tables Completed	Yes ☒	No ☐	Comments

RISKS & ISSUES ASSOCIATED WITH THIS DEVELOPMENT OBJECTIVE

Risks have been recorded on the DAP risk register.

WIDER BENEFITS OF THIS DEVELOPMENT OBJECTIVE

Further wider benefits achieved:

- Scope certainty achieved for over 111 UIDs, informed by DAP studies.
- Evidence from DAPs has also facilitated the de-scoping/removal of UIDs from the PC21 programme.
- Studies have contributed to over £173M of confirmed capital efficiencies, with potential for more savings in PC21 and PC27.
- PC21 DAPs have identified over 958 UIDs.

LINKAGE TO OTHER DEVELOPMENT OBJECTIVES

Development Output Section 16 (Urban Drainage Modelling – Studies to Inform PC27) provides evidence based asset data across 271 catchments and as such is linked to the following Development Objectives:

- Section 09 (WWPS/CSO Quality UID, Section 19 (LWWP Networks) and

- Section 20 (LWWP Wastewater Treatment Works

DO25 is now closed and therefore no longer relevant. Any discussion of possible link should be part of the PC27 Business Planning process.

Development Objective – Expenditure Summary

Table DO1 Expenditure on Development Objective (Nominal Prices)

Category	**Spend to End March 2024 (£m) (21-24)**	**Anticipated Future Spend (£m) (24-27)**	**Anticipated Total DO Spend (£m)**	**Comment**
Civil				
M&E				
Materials / Equipment				
NIE				
Lands				
Site Investigation				
Consultancy	4.73	5.045	£9.775m	See expenditure commentary above.
Pilot Studies				
Add Others as necessary				
Totals	**£4.73**	**£5.045**	£9.775m	
PC21 Projected Spend on Development Objective			£9.775m	

DEVELOPMENT OBJECTIVE [DO]		
Ref	Development Objective	Sub-Programme
17	**Raw Water Trunk Main Rehabilitation**	**20/23c**

GOVERNANCE		
Directorate	**SRO**	**Project Lead**
AD	[redacted]	[redacted]

REASON DEVELOPMENT OBJECTIVE IS NECESSARY

A prioritised list of Raw Water Trunk Mains for rehabilitation is still to be established through pro-active condition assessments.
IPAC project 2285 – Raw Water Trunk Main Rehabilitation was the Solution cost.

Additional detail:
Some raw water trunk mains have experienced structural failures which have a significant impact on the operation of Water Treatment Works and hence the potential to cause significant interruptions to customers.
An assessment of the Raw Water Trunk network is required to determine the risk and consequences of failure. The condition and location of the Network also needs clarified to understand the risks and intervention needs.

DEVELOPMENT OBJECTIVE TO CONFIRM SOLUTION SPEND IN PC21 &/or PC27

PC21 only ☐	PC27 only ☐	PC21 and PC27 ☒

PROJECT SCOPE

A Deterioration and Risk & Reliability Model was developed for Raw Water Trunk Mains (including Aqueducts & Structures) to inform the PC21 submission. On review, given the fact there is very little failure data to drive these models, the statistical relationships to predict failure are very uncertain and therefore the outputs from the models have not been used as part of the PC21 submission. Given the risk of supply interruptions if a Raw Water asset was to fail, a limited budget has been identified to identify prioritised Raw Water Trunk Main Rehabilitation for PC27.

A prioritised list of Raw Water Trunk Mains for rehabilitation will be established through pro-active condition assessments under project '2576 – Asset Strategy Performance Modelling'. The rehabilitation project will be carried out under '2285 – Raw Water Trunk Main Rehabilitation'.

Additional scope is to ensure that the 'Out of Service' raw water infrastructure is maintained in a safe state of repair.

COMMENTARY ON MATERIAL CHANGES TO SCOPE

The additional scope, to ensure that the 'Out of Service' raw water infrastructure is maintained safely, has arisen from reported structural issues on air well chambers along the abandoned Mourne Conduit.

PROJECT OUTCOMES

Reduction in risk of interruptions to supply
An additional outcome is to ensure that the 'Out of Service' raw water infrastructure is maintained in a safe state of repair to minimise Health and Safety risks.
A key deliverable is a prioritised list of raw water assets for rehabilitation, followed by recommendation reports, capital project business cases and iPAC costings.

COMMENTARY ON MATERIAL CHANGES TO PROJECT OUTCOMES

See Commentary on Material Changes to Scope.

UR MONITORING EXPECTATIONS
Progress on the delivery of this objective will be monitored and reported on through the annual cost and performance report process as a minimum. In addition we expect NI Water to: • Develop and submit an updated programme for the delivery of this objective • Engage with UR staff on the timing of additional engagement, reviews and the determination of any outcomes flowing from the successful completion of the development stages. An update on the condition assessment approach applied and how this has been used to identify and prioritise interventions is likely to be required as part of the engagement process.
HOW UR MONITORING EXPECTATIONS HAVE BEEN FULFILLED
After the completion of some condition assessments and analysis on the highest priority raw water trunk mains, NIW will engage with the UR through the AIR24 process. We have included the Northern Ireland Water Raw Water Investigations Strategy document as update on condition assessment approach.
PROGRAMME
See Master DO Programme v1 dated 30/06/24.
KEY MILESTONES FOR DEVELOPMENT OBJECTIVE

Description Key PC21 FD DO Milestones	**FD21 Annex T Milestone Target Date**	**Status Vs FD21 Target**	**Current Milestone Target Date**	**Status Vs Current Target**	**Commentary on Material Milestone Date Changes *AND / OR* Reasons for any material Delay**
Submit updated programme to UR	N/A	N/A	Jun 22	Complete	See AIR22 submission
Provide UR with update on condition assessment approach	N/A	N/A	Mar 25	Complete	Original AIR22 date was January 2023 Update provided through AIR24 submission. Northern Ireland Water Raw Water In See embedded Strategy document.
Establish *preliminary* prioritised list of Assets for potential rehabilitation	Apr 21	Delayed	Nov 24 (Desktop Plan)	On target	Original AIR22 date was Autumn 2022 Progressing investigations on assets on preliminary list.
Update			Mar 25	On target	Introduced to

prioritised list of Assets for potential rehabilitation					enable additions during each remaining year of PC21.
Completion of pro-active Condition Assessments of prioritised Raw Water Assets	Apr 23	Delayed	Mar 27	On target	AIR22 date – Dec 2023 Date revised to Mar 27. Delayed due to additional scope (i.e. out of service assets), limited budget and consideration of innovative intervention types.
Confirm final prioritised list of Raw Water Assets for Rehabilitation	Apr 24	Delayed	Mar 27	On target	AIR22 date - April 2024 Date revised to Mar 27. Delayed due to additional scope (i.e. out of service assets), limited budget and consideration of innovative intervention types.
Confirm Outline Capital Submission Projects List for PC27			June 25	On Target	To inform PC27 Business Plan
Confirm if DO is continuing for PC27.			June 25	On Target	Decision point on status of DO to inform PC27 BP
KEY MILESTONES FOR SOLUTION INVESTMENT					
Complete delivery of prioritised rehabilitation programme	Mar 27	On Target	Mar 27	On Target	AIR 22 date - March 2027

EXPENDITURE [See Also Table DO1 below]		
FD21 Annex T Estimated Total Cost of DO (2018/19 prices)	**Forecast Cost of DO (Nominal prices)**	**Commentary on Material Total Cost Changes for DO**
£0.4m (Proportioned from iPac Project 2576) (Final Determination was =£0.18m)	£1.025m (Approved Business Case on CPMR for this activity)	Latest Forecast Based on work planned to identify prioritised network interventions.
PC21 FD Estimated Cost of Solution (2018/19 prices)	**Forecast Cost of Solution (Nominal prices)**	**Commentary on Material Solution Cost Changes**
£1.00m (iPac Project 2285)	£1.175m	The DO is to inform PC27 capital solutions delivery. *The extra uplift is calculated using March 24 OBR Index.* Any minor intervention work in PC21 is likely to be negligible cost and undertaken as base maintenance.

ACTIVITY COMPLETED TO DATE AND OUTCOMES TO DATE (MARCH 2024)

To date the activities are:

- Strategy Approach Paper compiled.
- Review of the initial Raw Water Pipeline prioritised list and consideration of suitable pipeline testing locations and desktop review of existing information.
- The field inspection of key assets and accommodation works on the Mourne Conduit to facilitate more detailed investigations and condition assessments did not progress due to Corporate Budgetary review. This budget review has now been completed and Contracts can now be awarded from April 24
- Weirs and channels inspected in Woodburn and New Mapping App Created for this Project
- Walkover and operability summary completed on the Annalong River

PLANNED NEXT STEPS FOR DELIVERY from April 24 to March 25

The planned next steps are to progress the following: (Some Activities were delayed from 23-24 due to Budget Issues)

- This Mourne Conduit budget review has now been completed and Contracts can now be awarded from April 24.
- Internal inspection of River Bann pumping main in June-July 24
- Inspections at the pipeline and two high risk air wells on the abandoned 'out of service' Mourne Conduit, near Carryduff as a Pilot to inform the rest of this work on the Conduit. June -August 24
- CCTV Inspections at Tullybrannigan to Shaw's Well area to identify any restrictions. Nov 24
- Condition and CCTV testing of Spelga IR to Fofanny WTW raw water trunk main due to recurring bursts
- Map the missing Air Wells, SVs and ScVs on the in-service conduit from Silent Valley to Drumaroad
- Commence Pipeline Inspections – Sept 24
- Bypass of Straining House at Silent Valley will have a PCF compiled to address the roofing issue
- Inspection of Out Of Service Mourne conduit following the Pilot Exercise

Resulting Capital Interventions Identified for PC27

PROPOSED MAINTENANCE EXPENDITURE / ADDITIONAL OPEX from CAPEX			
Likely to be negligible additional OPEX from CAPEX, however unknown at this early stage.			
IMPACT OF SCOPE / PROGRAMME CHANGES ON CAPITAL DELIVERY / OUTPUTS PROGRAMME			
N/A as no solutions are developed yet.			
IMPACTS ON CAPITAL OUTPUTS PROGRAMME LINKED TO TABLES 40, 40a & 40b			
Links to Tables Completed	Yes ☐	No ☒	Comments N/A as no solutions yet
RISKS & ISSUES ASSOCIATED WITH THIS DEVELOPMENT OBJECTIVE			
Risks include: • Lack of available internal or external resources to meet programme dates • Uncertainty in scope and methodologies at this early stage of the assessments • Access to some of the assets can be extremely challenging due to the mountainous terrain			
WIDER BENEFITS OF THIS DEVELOPMENT OBJECTIVE			
The wider benefits include: • A more robust and resilient raw water network to maintain supplies of water to WTW • A reduction in the risk of unplanned interruptions to customers			
LINKAGE TO OTHER DEVELOPMENT OBJECTIVES			
The is no linkage to other Development Objectives. Note that linkage was previously identified with Section 22 AD - Asset Strategy - Water Asset Performance Modelling, but given that the scope “2. Raw water aqueducts and structure investigations” is being removed due to duplication with this Section 17, linkage no longer exists.			

Development Objective – Expenditure Summary
Table DO1 Expenditure on Development Objective (Nominal Prices)

Category	Spend to End March 2024 (£m)	Anticipated Future Spend (£m)	Anticipated Total DO Spend (£m)	Comment
Civil	0.000	0.812	0.812	Spend for onsite investigation – previously under Site investigations.
M&E				
Materials / Equipment				
NIE				
Lands	0.000	0.003	0.003	Previously under SI
Site Investigation	0.000	0.000	0.000	JH003 Previous values now split between Civil and Consultancy
Consultancy	0.000	0.210	0.210	Spend for support and analysis – previously under Site investigations.
Pilot Studies				
Totals	0.000	1.025	1.025	
PC21 Projected Spend on Development Objective			1.025	

NI Water consider the Development Objective closed and they will have follow-up discussions with the UR at the review meeting.

DEVELOPMENT OBJECTIVE [DO]		
Ref	Development Objective	Sub-Programme
18	**Culmore DA KL554 - Skeoge Link Road**	**24a**

GOVERNANCE		
Directorate	**SRO**	**Project Lead**
AD	[redacted]	[redacted]

REASON DEVELOPMENT OBJECTIVE IS NECESSARY

Under the Derry Area Plan 2011, approximately 230 ha of land was zoned for development in the Glengalliagh area, to the North West of Derry, comprising approximately 8,000 properties. Historic needs and options report indicate a pumping solution will be required to convey foul flows to the treatment works at Culmore. The option outlined within this submission was taken from a historic 2011 DAP needs and options report and as such this option is regarded as a development output due to the need to re-verify the catchment and solution options stage.

DEVELOPMENT OBJECTIVE TO CONFIRM SOLUTION SPEND IN PC21 &/or PC27

PC21 only ☒	PC27 only ☐	PC21 and PC27 ☐

PROJECT SCOPE

Provision of a solution to convey flows from Skeoge Link Road development area (230 ha of land, estimated 8,000 properties) to the works at Culmore.

Summary of Scope Refinement
Project scope quantity references changed from properties to Population Equivalent (PE).
Extent of lands to be served has increased to include existing development areas.
Total population served by the proposed scheme is approximately 19,350PE.
Total area for all approx. 297 ha.
New population growth served: 11,800PE.
Existing population redirected to the new scheme: 7,550PE.

COMMENTARY ON MATERIAL CHANGES TO SCOPE

As noted above, scope has increased to serve the required area and population as the existing network is overloaded and a common solution is more cost effective than two separate solutions.

Potential to Remove Scope

Reason - Business as Usual activities
A1 Options and Business case ready.
Engage with NIEA and other stakeholders on needs and options and the programme for delivery as required.

PROJECT OUTCOMES

- Provide an updated business case to UR as part of PC21 Mid Term Review after route of pumping main has been agreed with DfI Roads.
- Comply with requirement to serve new development in Glengalliagh area with sewerage infrastructure facilitating growth and development within the area for approximately 8,000 new properties, plus existing properties north of A515 and industrial areas.
- Reduce network capacity issues to Pennyburn combined sewer and surrounding network reducing the risk of out of sewer flooding.
- Reduction in the number of CSO spills to receiving watercourse improving water quality.

Additional anticipated Project Outcomes

- Facilitate the redirected flow associated with existing properties (7,550PE and 67 ha).

COMMENTARY ON MATERIAL CHANGES TO PROJECT OUTCOMES

A larger and a smaller catchment with the Culmore DA will be redirected to Skeoge from Pennyburn WwPS. The PE of the re-directed catchment is approx. 7,500PE plus 50PE and will have an impact on flows at Pennyburn, which is currently over-capacity.

UR MONITORING EXPECTATIONS

Progress on the delivery of this objective will be monitored and reported on through the annual cost and performance report process as a minimum. In addition, we expect NI Water to:

- Develop and submit an updated programme for the delivery of this objective.
- Engage with UR staff on the timing of additional engagement, reviews and the determination of any outcomes flowing from the successful completion of the development stages.
- Engage with NIEA and other stakeholders on needs and options and the programme for delivery as required.
- Submit a business case for the final solution, including costs and justification, to UR for determination.
- Engage with UR staff on implications for PC21 DG5 targets if required.

HOW UR MONITORING EXPECTATIONS HAVE BEEN FULFILLED

- Programmes for delivery of this objective developed and submitted with regular updates
- Engagement with other stakeholders including NIEA, DFI, Council, and others, and continues throughout the programme as required
- Business case will be submitted at part of the PC 21 Mid Term Review and will include costing and justification.
- No DG5s will be delivered under this project and PC21 DG5 outputs will retain unaffected.

PROGRAMME

See Master DO Programme v1 dated 30/06/24.

P6 Programme is supplied in this update and is being developed alongside the business case.

Programme dates below relate to internal NIW dates which relate to the delivery project are not to be confused with regulatory submission.

Asset management meet with UR staff to discuss Development Objectives.

KL554 - Skeoge Lands - Glengalliagh PS

Activity	Start	Finish
A00100 - ECI Period		20/12/2024
A00120 - Land Identification Complete	Milestone	04/07/2024
A10100 - Business Case Submission	Milestone	23/05/2024
A10110 - Business Case Approval	Milestone	31/10/2024
A10120 - A1 Form Approval	Milestone	20/12/2024
A10130 - Planning Permission Period	07/12/2022	31/10/2025
A30100 - Tender Preparation	21/12/2024	11/03/2025
A30110 - A3 Approval		12/04/2025
A30120 - Design Period		
A30130 - Construction On Site Period	13/05/2025	31/03/2027
A30140 - Project Beneficial Use Finish		31/03/2027
A30150 - Asset Data Return Period		
A30160 - D2 Handover Date		31/07/2027
A44000 - A4 Approval		31/07/2028

KEY MILESTONES FOR DEVELOPMENT OBJECTIVE

Description Key PC21 FD DO Milestones	FD21 Annex T Milestone Target Date	Status Vs FD21 Target	Current Milestone Target Date	Status Vs Current Target	Commentary on Material Milestone Date Changes ***AND / OR*** Reasons for any material Delay
Culmore DAP Options & Needs est. complete	Dec 20	Superseded			New replacement milestone below
Develop and submit an updated programme for the delivery of this objective.			Jun 23	Completed	P6 Key dates provided. See Master DO Programme.
Engage with NIEA and other stakeholders on needs and options and the			Mar 26	To be Removed	To be removed as is BAU activity. Ongoing and as required,

programme for delivery as required.					No engagement required for DO but Project team liaise with NIEA for draft consent. Further sign off by NIEA prior to A1. Discussions ongoing with DfI Roads and Rivers.
Submit business case for solution, including costs and justification, in accordance with agreed timetable to UR for determination.			Sep 23	Complete	Business Case submitted to UR as part of PC 21 mid-term review.
Engage with UR staff on implications for PC21 DG5 targets if required.			April 23	Removed	Removed due to no DG5s on project, 5 DG5s mentioned in the original business case relate to the entire Culmore DA. None will be delivered under this project.
Culmore DAP Options & Needs est. complete			Feb 24	Complete	Upper Galliagh Road WwPS model completed Jul23 – Email below. See further note at end of Proforma below Table D01

					Culmore DA report.msg
Estimated land purchase cost & programme understood	Jun 23	Delayed	July 24	On Target	Skeoge site will be a land transfer, negotiations on going but aim to conclude by July 24. Lenamore site is to be purchased from DfC, cost to be confirmed. Wayleaves to be served for pipelines.
Confirm Closure of DO18			**AIR 24**	**On Target**	**All remaining milestones are BAU.**
A1 Options and Business case complete	Dec 23	On Target		To be Removed	To be removed from DO18 as is BAU activity This DO was incorrectly referenced as DO11 in AIR 23 Proforma
KEY MILESTONES FOR SOLUTION INVESTMENT **(note this section is relating to the construction phase which is outside the scope of the Development Objective)**					
Construction commencement onsite	Jul 24	Delayed	May 25	On Target	Planning and Finance approvals not expected to be in place until Summer 24
Construction completion	Jul 26	Delayed	Mar 27	On Target	Completion moved from Mar 26 to Mar 27 due to delayed start.

EXPENDITURE [See Also Table DO1 below]		
FD21 Annex T Estimated Total Cost of DO (2018/19 prices)	**Forecast Cost of DO (Nominal prices)**	**Commentary on Material Total Cost Changes for DO**
£96k	£583k	Scheme specific modelling and undertaking the ECI phase. Annex T costs submitted in error. Corrected in this document.
PC21 FD Estimated Cost of Solution (2018/19 prices)	**Forecast Cost of Solution (Nominal prices)**	**Commentary on Material Solution Cost Changes**
£0.71m	Nominal Cost £17.194m Nominal figure is £14.2 m (IPAC 2018/19 prices) indexed using the March 24 OBR forecast	Originally pumping to Pennyburn WwPS which now has limited capacity, along with engineering and traffic management challenges of implementing a pipeline route down the A2 Buncrana Road. Current scheme has two new WwPSs and pumps directly to the Culmore trunk sewer. Additional cost justification included within 'Activity completed to date' section below. Annex T costs submitted in error. Corrected in this document.

ACTIVITY COMPLETED TO DATE AND OUTCOMES TO DATE (March 2024)

Culmore DAP Needs and Options was completed in April 2024. This project has been input and tested in the latest hydraulic model, and all hydraulic requirements are included within the scope of the construction project.

Extensive design refinement and detail has been developed by the selected D&B contractor over the previous year. Area that have contributed to increased capital cost are the solution to cross the steep embankment at the connection point to the Culmore trunk sewer, the use of specialist pipelaying equipment on Madamsbank road to work within DfI Roads restrictions, invert levels of existing sewers have been confirmed creating excavation in excess 5m deep to divert sewers to the new Lenamore WwPS, Ground Investigation results have confirmed the presence of rock at the Lenamore WwPS and poor ground with water at Skeoge WwPS, works undertaken during ECI have confirmed the need for additional security measures for pipelaying through Galliagh, extensive haul roads required to facilitate construction. Planning permission has been received for the Lenamore WwPS site. Complicated land owner liaison delayed the submission of the Skeoge WwPS Planning Application. This was submitted in May 2024 and is expected to be approved by October 2025. Landowner liaison for the Skeoge site is ongoing but it expected to be finalised by July 2024.

Annex T estimated spend has been updated to reflect revised timelines. It should be noted that originally the Annex T estimated spend on this development objective was £96k and estimated capital investment on solution was £0.71m. These figures do not reflect cost estimates within the Final Determination figure, which was £6.6M in 2018/19 prices. Costs

may be further refined going forward as the project moves through the NIW Capital Works Programme Gateways. The original solution was modelled in the DAP completed in PC10. Changes in legislation and methodology have resulted in an increase in flows and development catchment.

The project capital civil costs have been estimated by a D&B contractor. Once this estimate is deflated to 2018/19 prices, the cost estimate is within 10% of the IPAC civil cost estimate.

PLANNED NEXT STEPS FOR DELIVERY

Engagement with Stakeholders as part of project delivery process.

Issue wayleaves, secure planning permission for Skeoge WwPS Site, complete A3 design and costing, complete contract documents, procurement.

PROPOSED MAINTENANCE EXPENDITURE / ADDITIONAL OPEX from CAPEX

Additional OPEX funding is included within IPAC and highlights what will be needed to carry out the maintenance of the new equipment. IPAC was included within the PC21 submission.

IMPACT OF SCOPE / PROGRAMME CHANGES ON CAPITAL DELIVERY / OUTPUTS PROGRAMME

It is currently estimated that construction will be completed by March 2027.

IMPACTS ON CAPITAL OUTPUTS PROGRAMME LINKED TO TABLES 40, 40a & 40b

Links to Tables Completed	Yes ☒	No ☐	Comments

RISKS & ISSUES ASSOCIATED WITH THIS DEVELOPMENT OBJECTIVE

Risks	**Likelihood of Risk (H/M/L)**	**Impact of Risk (H/M/L)**	**Mitigation Measures**
Land purchase and access arrangements	**H**	**H**	Advanced land purchase/access negotiation will be implemented to reduce the delivery risk.
Availability of required power supply	**M**	**M**	Given the topography of the land, the proposed capital solution will require a pumped solution. Early engagement with NIE once proposed power demands are understood will reduce this risk to delivery.
Planning Permission, Environmental studies and Consents	**M**	**H**	Early and continued engagement with Planning department and relevant stakeholders
Poor Ground Conditions	**M**	M	GI undertaken; GI conditions have been priced into current cost estimate.
Social and Political Constraints	**H**	M	NI Water will continue to liaise with key stakeholders including political representatives and environmental groups.
PC21 Funding levels	**H**	M	Funding allocation to this work stream may be insufficient in PC21 to invest in capital intervention at this location.

Fluvial Flood Risk	**M**	M	The site for the proposed Skeogelands WwPS lies between two watercourses. DfI Rivers flood hazard mapping indicates that the site is not within the indicative floodplain, and is not within the detailed flood extent for a 0.1% AEP event (1 in 1,000 year flood event).
WIDER BENEFITS OF THIS DEVELOPMENT OBJECTIVE			
Additional capacity within the sewerage network allowing for future predicted growth and reducing the risk of out of sewer flooding.			
LINKAGE TO OTHER DEVELOPMENT OBJECTIVES			
There are no current links to any other Development Objectives.			

Development Objective – Expenditure Summary

Table DO1 Expenditure on Development Objective (Nominal Prices)

Category	**Spend to End March 2024 (£m)**	**Anticipated Future Spend (£m)**	**Anticipated Total DO Spend (£m)**	**Comment/ Project Code(s)**
Civil	0.287	0.030	0.317	ECI Costs
M&E				
Materials / Equipment				
NIE				
Lands				
Site Investigation				
Consultancy	0.120	0.146	0.266	Design and solution development
Pilot Studies				
Totals	**£0.407**	**£0.176**	**£0.583**	
PC21 FD Projected Spend on Development Objective			**£0.583**	

Culmore DAP Needs and Options Stage 5 is actually complete. NIW is just awaiting final reports from the consultant. In any case, stage 5 work would have had no bearing on the Skeoge solution.

The Skeoge scheme is a first time service project and, therefore, its design does not depend on the DAP model. Rather, the DAP model was used to ensure no downstream detriment coming from Skeoge.

NI Water assess that work on these Development Objectives will be complete in December 2024 and wish to close these DOs at that time.

DEVELOPMENT OBJECTIVE [DO]		
Ref	Development Objective	Sub-Programme
19 **20**	**LWWP Networks** **LWWP WwTW**	**Networks: 12b, 12d, 12g** **WwTW: 16b**
GOVERNANCE		
Directorate	**SRO**	**Project Lead**
AD	[redacted]	[redacted]
REASON DEVELOPMENT OBJECTIVE IS NECESSARY		
At the time of the PC21 BP submission this investment had not reached regulatory certainty. In order to reach Final Determination (FD) it was agreed UR submissions in batches FD by mid PC21.		
DEVELOPMENT OBJECTIVE TO CONFIRM SOLUTION SPEND IN PC21 &/or PC27		
PC21 only ☐	**PC27 only ☐**	**PC21 and PC27 ☒**
PROJECT SCOPE		
In response to a number of serious flooding events and concerns regarding deteriorating water quality in Belfast Lough the NI Executive approved the creation of the Living With Water Programme (LWWP) in July 2014 lead by DfI. The aim of LWWP is to develop a Strategic Drainage Infrastructure Plan (SDIP) for the six WwTWs and their associated drainage catchments, which input to Inner Belfast Lough. Since the creation of the LWWP Board in January 2015 stakeholders have been working together to develop the most cost effective and sustainable plan that will address legacy issues and provide a wide range of benefits to society. In May 2017 a LWWP Integrated Environmental Modelling (IEM) Ecosystem Approach was agreed by DfI, NI Water, DAERA, NIEA and NI UR to inform capital investment. In 2018 NI Water and its stakeholders recognised that the Belfast SDIP detailed appraisals would not be completed to fully inform the PC21 Business Plan and therefore decided the LWWP elements of this would be based on a "Straw Man" solution. This development objective is to develop the Straw Man solution presented as part of the PC21 Outline Capital Submission into a final Strategic Drainage Investment Plan solution. Final solutions to resolve the water quality, UID and DG5 issues will require completion of modelling, including IEM, and site based investigations to identify the optimum solutions. (Change from Annex T is words 'water quality' added to the last para to merge Project Scope paras from ref 19 and 20). No change to scope since AIR22.		
COMMENTARY ON MATERIAL CHANGES TO SCOPE		
N/A		
PROJECT OUTCOMES		
Networks • Protect against flooding and comply with the EU Floods Directive (water quantity): Resolve internal DG5 flooding; Work with stakeholders to develop integrated options to manage flood risk • Enhance the environment and comply with the EU Water Framework Directive (water quality): Reduced risk of compliance failure; Contribute towards Inner Belfast Lough progressing towards "Good" status under the water Framework Directive		

- Provide the capacity needed to continue to facilitate the new connections necessary for economic growth
- Take opportunities to remove rainwater from foul sewage and return to nature as close as where it lands as possible.
- Support ongoing economic development in manner with blue/green infrastructure that aligns with the overall 5, 10 and 25 year planning horizons.

Change from Annex T: Last 2 bullet points above added for networks to align to LWWP approach.

WwTW

- Reduced risk of compliance failure
- Contribute towards Inner Belfast Lough progressing towards "Good" status under the water Framework Directive
- Provide sufficient wastewater treatment capacity to cater for future economic growth

No change to PC21 FD Project Outcomes.

COMMENTARY ON MATERIAL CHANGES TO PROJECT OUTCOMES

N/A

UR MONITORING EXPECTATIONS

Progress on the delivery of this objective will be monitored and reported on through the annual cost and performance report process as a minimum. In addition, we expect NI Water to:

- Engage with UR staff on the timing of additional engagement, reviews and the determination of any outcomes flowing from the successful completion of the development stages.
- Engage with DfI, NIEA and other stakeholder on needs, priorities and the programme for delivery.
- Submit Regulatory business cases, including costs and justification, in accordance with the agreed timetable to UR for determination.
- Engage with UR staff on the implications for PC21 nominated output targets as required.

Note that this links to other PC21 development objectives related to programme scope/uncertainty.

HOW UR MONITORING EXPECTATIONS HAVE BEEN FULFILLED

- A Director of the UR is a member of the DfI Led LWWP Board, which meets three times a year. At these meetings, the UR receives updates from LWWP Partners progress on the LWWP, including progress by NI Water.
- Development and delivery of the LWWP is through a collaborative approach, through this collaboration NI Water staff regularly engage with DfI, NIEA and other stakeholder on needs, priorities and the programme for delivery through the development of LWWP Catchment Delivery Plans and a range of BAU processes.
- NI Water submitted most of the LWWP related PC21 Regulatory Business Cases by the end of the Batch 4 submission, including costs and justification, in accordance with the agreed timetable to UR for determination. The final three business cases relating to Belfast WwTW were submitted as part of the Mid-Term Review.
- NI Water is engaging with UR staff on the implications for PC21 nominated output targets as required under the PC21 Mid-Term Review process.

PROGRAMME					
Delivery of NI Water's elements of the LWWP Belfast SDIP is under a P6 programme that is controlled and updated by NI Water's CPMO Team. For the latest copy please contact Conor Lynch: Conor.Lynch@niwater.com See Master DO Programme v1 dated 30/06/24.					
KEY MILESTONES FOR DEVELOPMENT OBJECTIVE					
Description Key PC21 FD DO Milestones	**FD21 Annex T Milestone Target Date**	**Status Vs FD21 Target**	**Current Milestone Target Date**	**Status Vs Current Target**	**Commentary on Material Milestone Date Changes *AND / OR* Reasons for any material Delay**
Provide input to the LWWP Belfast SDIP to support the public consultation and then completion of the final plan for approval by the NI Executive	31/12/21	Complete	No Change		
Provide input to the DfI LWWP Governance Framework, so that this can be approved by the LWWP Board Partners, including the UR	Q4 2020/21	Complete	No Change		
Procurement Strategy for LWWP	Q2 2020	Complete	No Change		
Outcome (Needs Stage) of Drainage Area Plans	Q1 2021	Complete	No Change		
Outcome (Needs Stage) of Integrated Environmental Modelling	Q4 2021	Complete	No Change		
Develop a Master Programme for the LWWP in Primavera P6, and instigate monthly updates against this to the NIW LWWP Board	30/11/21	Complete	No Change		

Review the LWWP Master Programme and determine which LWWP Business Cases will be submitted to the UR under MTR Regulatory Submission Batch 2, 3 and 4	30/01/22	Complete	No Change		
Submit PC21 MTR Regulatory Submission Batch 2 to UR	31/03/22	Complete			
Submit PC21 MTR Regulatory Submission Batch 3 to UR	30/09/22		No Change	Complete	
Submit PC21 MTR Regulatory Submission Batch 4 to UR	31/03/23		No Change	Complete	All BCs in MTR Submission Sep 2023
Develop a detailed action plan for all of the key actions necessary to achieve the MTR Regulatory Submissions and then efficiently deliver the outputs and achieve the PC21 LWWP Investment Profile then monitor implementation of this action plan, with monthly updates provided to the NIW LWWP Board	30/11/21	Complete	No Change		
Provide updates on progress on development and delivery of NI Waters PC21 elements of the LWWP to each LWWP Board, which is chaired	31/03/21	Complete	No Change		

by DfI and attended by the UR.					
Confirm if this DO is continuing for PC27			June 25	On Target	Decision point on status of DO to inform PC27 BP
KEY MILESTONES FOR SOLUTION INVESTMENT (Networks)					
DAS and / or IEM appraisal studies (number of, on a rolling programme)	Q4 2022	On Target	No Change	Rolling Programme now embedded process Business as Usual	DAS and IEM Work continues for NIEA to conclude the scope of some elements – see DO16 - BAU
Preparation of business cases for developed solutions on a rolling programme	From Q4 2022		Targets Under Review		Targets and milestones under review due funding constraints of overall LWWP.
Beneficial use	From Q4 2024		Targets Under Review		Targets and milestones under review due funding constraints of overall LWWP.
Confirm if this DO is continuing for PC27			June 25	On Target	Decision point on status of DO to inform PC27 BP
For evidence refer: • to PC21 Mid-Term Review LWWP RBCs • records of NIW LWWP Board Meetings • records of DfI LWWP Board Meetings • LWWP P6 Programme • NI Water part input to DfI for the revised LWWP SOC (submitted 28/04/23)					
KEY MILESTONES FOR SOLUTION INVESTMENT (WwTW)					
WWTW appraisal studies (number of, on a rolling programme)	Up to Q4 2023		Targets Under review		Targets and milestones under review due funding constraints of overall LWWP.
Preparation of business cases for each WwTW on a rolling programme	Up to Q4 2023		Target Under Review		Targets and milestones under review due funding constraints of overall LWWP.
Beneficial use of WwTW excl. outfalls (number of on a rolling programme)	Q1 2028		Targets Under Review		Targets and milestones under review due funding constraints of overall LWWP.

Confirm if this DO is continuing for PC27			June 25	On Target	Decision point on status of DO to inform PC27 BP

EXPENDITURE [See Also Table DO1 below]

FD21 Annex T Estimated Total Cost of DO (2018/19 prices)	**Forecast Cost of DO (Nominal Prices)**	**Commentary on Material Total Cost Changes for DO**
DO19 ~£11.5m DO20 ~£11.5m Note that the figures above were for PC21 Period DO related costs.	DO19 ~£17.4m DO20 ~£11.6m Note that the figures above are for PC21 Period DO related costs. Costs for PC27 period are to be determined as part of the PC27 BP process.	**Key differences are due to NI Water's anticipation that the DOs will be closed in Dec 2024.**
PC21 FD Estimated Cost of Solution (2018/19 prices)	**Forecast Cost of Solution (Nominal Prices)**	**Commentary on Material Solution Cost Changes**
DO19 ~£377m DO20: ~ £580m (incl. sea outfalls) ~£320 (excl. sea outfalls) Note that these included the cost of the DO	DO19 ~£696m DO20: ~ £1,215m (incl. sea outfalls) ~£907 (excl. sea outfalls) Note that these include the cost of the DO	The LWWP revised SOC forecast (May 23) has not been agreed by the DfI Board. Therefore the previous forecast has not been updated until funding agreement is reached.

ACTIVITY COMPLETED TO DATE AND OUTCOMES TO DATE (MARCH 2024)

Public consultation for the LWWP Belfast SDIP took place and following approval by the NI Executive, the DfI Minister launched the final plan at Belfast Castle on 9 November 2021. This included significant input from NI Water.

NI Water helped DfI to prepare the LWWP Governance Framework document. Most of the document was approved by the DfI LWWP Board on 12 May 2022, with the final document approved by the DfI LWWP Board on 2 Feb 2023.

The Procurement Strategy for LWWP was completed and the key recommendation was to set up a Major Projects Partnering Framework (MPPF). This was approved by the NIW LWWP Board, NI Water EC and Board. Following a competition process, on 26 May 2022 NI Water's Board approved that the MPPF be awarded and the successful suppliers were notified. The first secondary competition to select the team for Belfast WwTW commenced in the summer of 2022 with the team selected at the end of October 2022. The secondary competition to select the team for Kinnegar WwTW and Sydenham WwPS commenced in Feb 2023 and was completed in May 2023. The next secondary competitions on hold awaiting funding.

All 6 DAPs have been progressed to completion of the needs stage. Progress reports on this provided to each NIW LWWP Board meeting. DAPs are now being revisited and revised to reflect the findings of the Integrated Environmental Modelling through the Outline Optioneering Process.
Needs Stage of Integrated Environmental Modelling is complete with the results shared at a workshop attended by LWWP Partners, including the UR. The IEM has informed development of the PC21 MTR RBC solutions through the Outline Optioneering Process.

Master Programme for the LWWP in Primavera P6 developed and is being used to track progress and inform programme & project management.

PC21 MTR Regulatory Business Cases have been submitted to the UR for all LWWP PC21 projects. These informed by DAS and/or IEM appraisal studies.

NI Water provides progress updates ahead of each DfI LWWP Board, which are also presented by NI Water staff at each meeting. These meetings are attended by a UR Director.

Beneficial use for Networks are on track.

Beneficial use for WwTW are mostly on track. However, due to increasing costs across the LWWP WwTWs, the upgrade of Greenisland WwTW and Carrickfergus WwTW have been deferred by 3 years – DfI was informed through NI Water's part input to the revised SOC and LWWP Partners being informed through engagement related to their roles on the LWWP Governance Groups, including the LWWP Board.

A revised profile of NI Water's forecast of the investment required to deliver its elements of the LWWP to the end of the PC27 period has been prepared for submission to DfI by the end of April 2023. The project costs within this align to the costs in the PC21 MTR Regulatory Business Cases.

A review of the affordability of LWWP Major Projects to stay within public expenditure constraints is ongoing from May 2024. DfI asked NI Water to phase the work over a longer period and challenge meeting full NIEA requirements. Consideration on how appropriate Regulator process is for a Public Body limited by the uncertainty of annual public expenditure constraints in comparison with funded water company.

PLANNED NEXT STEPS FOR DELIVERY

Now that the RBCs have been submitted, the next stages for NI Water's LWWP Projects include:

- OBC and A1 Approval
- Procurement
- FBC and A3 Approval
- Planning Permission
- Capital Delivery

The key milestones for all LWWP Large Projects are set out in NI Water's part-input to DfI for the 2023 revised SOC.

These are all post Development Output steps.

PROPOSED MAINTENANCE EXPENDITURE / ADDITIONAL OPEX from CAPEX

Any additional OPEX from CAPEX requirements in the PC21 Period was set out in the PC21 MRT RBCs.

As part of the Mid-Term Review a company wide review was undertaken to review the level of Base investment needed to maintain our existing assets.

The outcome was the level of Base investment was adequate if inflationary uplifted applied.

IMPACT OF SCOPE / PROGRAMME CHANGES ON CAPITAL DELIVERY / OUTPUTS PROGRAMME

The work to define NI Water's PC21 period related LWWP outputs for the PC21 MTR has been collated and added to revised estimates of the work required to complete the objectives of the LWWP Belfast SDIP. This has resulted in the overall estimate of NI Water's parts of the LWWP Belfast SDIP increasing from c£1.2bn to £1.9bn (in nominal terms, post assumed UR efficiency challenge). This has forced the deferral of the upgrades of 2 WwTW to the PC27 period. This

will likely require that NI Water elements of the LWWP Belfast SDIP that are to be delivered from April 2027 will either have to be delivered over a longer period of time, or level of LWWP funding increased. NI Water has provided this revised estimate to DfI to inform the 2023 revision of the LWWP Strategic Outline Case (SOC). The way ahead is being discussed by LWWP Partners, including the UR, through engagement at the DfI led LWWP Board, and regular Board meetings in accordance with terms of reference.
IMPACTS ON CAPITAL OUTPUTS PROGRAMME LINKED TO TABLES 40, 40a & 40b

Links to Tables Completed	Yes ☒	No ☐	Comments

RISKS & ISSUES ASSOCIATED WITH THIS DEVELOPMENT OBJECTIVE
The Development Output risks related to the submission of RBCs for the PC21 MTR have passed.
WIDER BENEFITS OF THIS DEVELOPMENT OBJECTIVE
Identify relevant funding for LWWP Networks and WTWs projects to ensure: • Reduced risk of compliance failure; Contribute towards Inner Belfast Lough progressing towards "Good" status under the water Framework Directive. • Support ongoing economic development with blue/green infrastructure that aligns with the overall 5, 10 and 25 year planning horizons and improves the quality of the streetscape.
LINKAGE TO OTHER DEVELOPMENT OBJECTIVES
Development Output S19 LWWP Networks is linked to the following Development Objectives: • DO09 WwPS/CSO Quality UID and WwPS Capacity increase. **DO Closed** • DO12 Storm Water Separation - Henderson Ave project listed 6.88ha storm separation • DO16 Urban Drainage Modelling - Studies to Inform PC27 Development Outputs S19 & 20 LWWP Treatment and Networks are also linked to DO • S25 Addressing scope certainty for the Mid Term Review. **DO Closed**

Development Objective – Expenditure Summary

1d. NI Water Capital Summary an

See March 2024 FRC Finance Report that summaries 2023/24 expenditure.

Note that the figures below are for PC21 Period DO related costs (share of DAP, IEM, CapSal plus Appraisal Fees) and exclude the delivery stage of the projects. DO related costs for PC27 period and beyond are to be determined as part of the PC27 Business Plan process. Please see embedded document for 2024 spend and Output details.

Table DO1 Expenditure on Development Objective (Nominal Prices)

Category	**Spend to End March 2024 (£m)**	**Anticipated Future Spend (£m)**	**Anticipated Total DO Spend (£m)**	**Comment**
Civil				N/A to DO related costs
M&E				N/A to DO related costs
Materials / Equipment				N/A to DO related costs
NIE				N/A to DO related costs
Lands				N/A to DO related costs
Site Investigation				N/A to DO related costs
Consultancy	£23.0m	£6.0m	£29m	Includes DAP, modelling & Capital Salaries
Pilot Studies				
Totals	**£23.0m**	**£6.0m**	**£29m**	**Spend to end of March 24 (nominal prices)** DO19 ~ £9.1m DO20 ~ £13.9m **Anticipated Future Cost (nominal prices)** DO19 ~ £2.5m DO20 ~ £3.5m **Total Cost of DO (nominal prices)** DO19 ~ £11.6m DO20 ~ £17.4m
PC21 FD Projected Spend on Development Objective			**FD21 Annex T Estimated Total Cost of DO (2018/19 prices)** DO19 ~£11.5m DO20 ~£11.5m	

DEVELOPMENT OBJECTIVE [DO]		
Ref	Development Objective	Sub-Programme
21	**AD - Asset Strategy - Wastewater Asset Performance Modelling**	**20g**

GOVERNANCE		
Directorate	**SRO**	**Project Lead**
AD	[redacted]	[redacted]

REASON DEVELOPMENT OBJECTIVE IS NECESSARY

We need to develop risk-based asset performance modelling tools and assessments for wastewater assets to inform detailed intervention during PC21.

DEVELOPMENT OBJECTIVE TO CONFIRM SOLUTION SPEND IN PC21 &/or PC27

PC21 only ☐	**PC27 only ☐**	**PC21 and PC27 ☒**

PROJECT SCOPE

1. Updates to the Sewage Risk & Consequence Models
2. Rising Mains Asset Prioritisation Development
3. Development of Siphon Asset Maintenance Data
4. Development of CSO Asset Maintenance Data
5. Development of Infiltration Strategy

No change to scope.

COMMENTARY ON MATERIAL CHANGES TO SCOPE

N/A

PROJECT OUTCOMES

The overall objective of this project is to facilitate enhanced investment planning and prioritisation of sewer base maintenance and rehabilitation programmes through adoption of a repeatable and robust, risk-based approach, and to optimise the flow of data to asset performance functions within NI Water. This will facilitate confident decision making and increased efficiencies during the implementation of the base maintenance programmes.

No Change to PC21 FD Project Outcomes.

A key deliverable is the prioritisation tool that will risk score for each sewer line to facilitate decision making and target interventions.

COMMENTARY ON MATERIAL CHANGES TO PROJECT OUTCOMES

N/A

UR MONITORING EXPECTATIONS

Progress on the delivery of this objective will be monitored and reported on through the annual cost and performance report process as a minimum. In addition, we expect NI Water to:

- Develop and submit an updated programme for the delivery of this objective.
- Engage with UR staff on the timing of additional engagement, reviews and the determination of any outcomes flowing from the successful completion of the development stages.
- An update on the modelling tools once developed and how NI Water intends to use them to identify and prioritise interventions is likely to be required as part of the engagement process.

HOW UR MONITORING EXPECTATIONS HAVE BEEN FULFILLED

No formal monitoring undertaken other than AIR process.

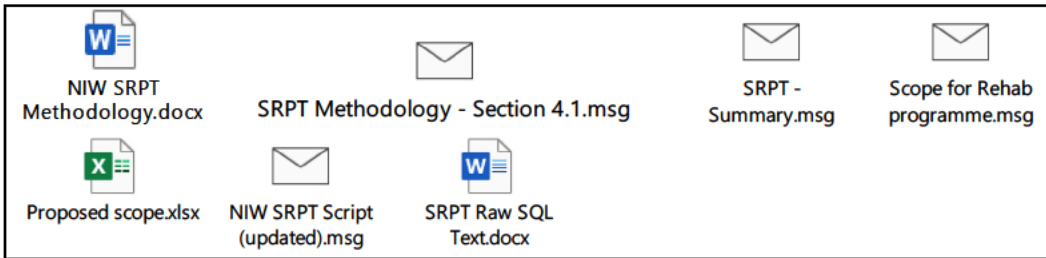
PROGRAMME

See Master DO Programme v1 dated 30/06/24.

KEY MILESTONES FOR DEVELOPMENT OBJECTIVE					
Description Key PC21 FD DO Milestones	**FD21 Annex T Milestone Target Date**	**Status Vs FD21 Target**	**Current Milestone Target Date**	**Status Vs Current Target**	**Commentary on Material Milestone Date Changes *AND / OR* Reasons for any material Delay**
Submit updated programme to UR			2021-27	On Target	
Engage with UR.			2021-27	On Target	
Engage with NIEA.			2021-27	On Target	
Provide update to UR on modelling tools once developed			June 24	On Target	Testing and validating has taken slightly longer than anticipated. Plan to meet with UR in June 2024 (delayed from Jan 2024).
Appointment of Consultants	Jun 21	Complete	No Change	N/A	
Development of Tool	12 months (Jun 22)	Delayed	Dec 22	Complete	The Sewer Rehab Prioritisation Tool will enable decisions to be made on the management of sewage assets, with a Total Risk Score being assigned to each sewer. The prioritisation tool is an info asset based application which will allow a report to be generated listing out a prioritised list based on the total risk score. A summary of the background scripts of the prioritisation tool is attached in the 'Activity Completed to

					Date' section below. Staff changes and delay in data returns has led to slippage.
Updates to the Sewage Risk & Consequence Models	March 23		March 24	Complete	Staff changes and delay in data returns has led to slippage but testing and validating of model outputs ongoing. Testing and validating has taken slightly longer than anticipated (delayed from Dec 2023).
Rising Mains Asset Prioritisation Development			Dec 24	On Target	Delays in testing and validating of risk and consequence model has had a knock-on effect on rising main prioritisation development (delayed from Mar 2024).
Development of Siphon Asset Maintenance Data			Dec 24	On target	Delays in testing and validating of risk and consequence model has had a knock-on effect on Siphon development (delayed from Mar 2024).
Development of CSO Asset Maintenance Data			Mar 25	On Target	
Development of Infiltration Strategy			Mar 25	On Target	
Confirm Outline Capital Submission Projects List for			June 25	On Target	To inform PC27 Business Plan

PC27					
Confirm if this DO is continuing for PC27			June 25	On Target	To inform PC27 Business Plan
KEY MILESTONES FOR SOLUTION INVESTMENT					
Description Key PC21 FD DO Milestones	**FD21 Annex T Milestone Target Date**	**Status Vs FD21 Target**	**Current Milestone Target Date**	**Status Vs Current Target**	**Commentary on Material Milestone Date Changes *AND / OR* Reasons for any material Delay**
Outputs utilised to generate and inform detailed intervention Projects for delivery by NI Water during PC21	2021-27	On Target	2024-27	On Target	Programme slippage due to staff changes and data return delays. From March 2024 outputs from the Sewage Risk and Consequence Model have been used to inform the Sewer Rehab programme.
EXPENDITURE [See Also Table DO1 below]					
FD21 Annex T Estimated Total Cost of DO (2018/19 prices)	**Forecast Cost of DO (Nominal prices)**	**Commentary on Material Total Cost Changes for DO**			
£0.55m	£0.733m	Revised figure is £0.733m indexed using the March 24 OBR forecast (from £0.707m AIR23)			
PC21 FD Estimated Cost of Solution (2018/19 prices)	**Forecast Cost of Solution (Nominal Prices)**	**Commentary on Material Solution Cost Changes**			
TBC	£0m	Solution outputs will be funded from Base Maintenance programme			
ACTIVITY COMPLETED TO DATE AND OUTCOMES TO DATE (MARCH 2024)					
Development of the Sewer Rehabilitation Prioritisation Tool (SRPT) and methodology has progressed. This has included the continued identifying of relevant data held by NI Water that will be beneficial and providing availability/access. The prioritisation tool is an info asset based application which will allow a report to be generated listing out a prioritised list based on the total risk score. The prioritise list can then be exported in PDF/excel, etc format. A summary of the background scripts of the prioritisation tool is attached. Progress meetings continue on a fortnightly basis. Change in staff and delay in data returns has led to slippage of programme. Testing and validating has taken slightly longer than anticipated, including refining of scripts. Time spent chasing data if data was centrally held would reduce time and effort sourcing.					



PLANNED NEXT STEPS FOR DELIVERY

The first phase of this program is to update the Sewage Risk & Consequence Models, which is underway with a completion target date of March 2024. After which the tool can be assessed and installed into Business as usual.

NI Water intend to try out the tool and have CCTV survey work prioritized to enable the sewer maintenance programme to continue throughout PC21 and help with PC27 Outputs.

All CCTV work carried out throughout the Business will also be able to be linked back into this tool, which will then be able to be prioritised also as part of the overall programme. (E.g.) CCTV work carried out as part of Drainage Area Programme (DAPs) can be assessed.

At present NI Water are using the PC15 Methodology for the start of the PC21 sewer maintenance programme, which enables NI Water to meet its targets at the start of PC21 and not playing catchup waiting on the new methodology and falling behind on its targets.

Once the tool has been assessed and approved, NI Water will start the rest of the programme as set out below.

Phase 2 will be the creation of a Rising Mains Asset Prioritisation system. Target date for completion is December 2024.

Phase 3 will be the development of Siphon Asset Maintenance program. Target date for completion December 2024.

Phase 4 will be the development of CSO Asset Maintenance program. Target date for completion March 2025.
Phase 5 is the development of an Infiltration Strategy. Target date for completion 2025.
It is the intention of NI Water that Phases 1 to 4 will all be held within one data set. This will enable a full prioritisation program to be set out.

The aim of the programme is to have all information stored in the one location, regarding survey work and sewer maintenance. This will also link back to Corporate Asset Register

PROPOSED MAINTENANCE EXPENDITURE / ADDITIONAL OPEX from CAPEX

N/A

IMPACT OF SCOPE / PROGRAMME CHANGES ON CAPITAL DELIVERY / OUTPUTS PROGRAMME			
Developments budget The development budget will be assessed on an annual basis, enabling NI Water to see how the expenditure is delivering the over programme. As the programme is set out in Phases, it makes it easier to assess. The Capital Budget will be able to be assessed annually also, the creation of the new tool will enable NI Water to have a capital maintenance programme, prioritised to whatever budget is given.			
IMPACTS ON CAPITAL OUTPUTS PROGRAMME LINKED TO TABLES 40, 40a & 40b			
Links to Tables Completed	Yes ☐	No ☒	Comments N/A
RISKS & ISSUES ASSOCIATED WITH THIS DEVELOPMENT OBJECTIVE			
Availability of suitable and accuracy of data.			
WIDER BENEFITS OF THIS DEVELOPMENT OBJECTIVE			
Better and focused base maintenance investment, maintaining level of service reducing risk of asset failure.			
LINKAGE TO OTHER DEVELOPMENT OBJECTIVES			
No links to other Development Objectives.			

Development Objective – Expenditure Summary

Table DO1 Expenditure on Development Objective (Nominal Prices)

Category	Spend to End March 2024 (£m)	Anticipated Future Spend (£m)	Anticipated Total DO Spend (£m)	Comment
Civil	-	-	-	
M&E	-	-	-	
Materials / Equipment	-	-	-	
NIE	-	-	-	
Lands	-	-	-	
Site Investigation	-	-	-	
Consultancy	0.205	0.55	0.733	Revised figure is £0.733m indexed using the March 24 OBR forecast (from £0.707m AIR23)
Pilot Studies	-	-	-	
Add Others as necessary	-	-		
Totals	**£0.205**	**£0.55**	**£0.733**	
PC21 FD Projected Spend on Development Objective			**£0.733**	

DEVELOPMENT OBJECTIVE [DO]		
Ref	Development Objective	Sub-Programme
22	**AD - Asset Strategy - Water Asset Performance Modelling**	**20g**

GOVERNANCE		
Directorate	**SRO**	**Project Lead**
AD	[redacted]	[redacted]

REASON DEVELOPMENT OBJECTIVE IS NECESSARY

We need to develop risk-based asset modelling tools and assessments for water assets to inform detailed interventions during PC21.

DEVELOPMENT OBJECTIVE TO CONFIRM SOLUTION SPEND IN PC21 &/or PC27

PC21 only ☐	PC27 only ☐	PC21 and PC27 ☒

PROJECT SCOPE

1. Strategic trunk main condition assessments
2. Raw water aqueducts and structure investigations
3. External specialist support to verify and package rehab schemes
4. SR condition assessments
5. PPRA
6. Development of strategic SV/AV inspections
7. Water quality sampling strategic network

COMMENTARY ON MATERIAL CHANGES TO SCOPE

Removed Scope

Reason – duplication with other Development Objectives

2. "Raw water aqueducts and structure investigations" is removed as it is duplicated by DO17 Raw Water Trunk Main Rehabilitation
7. "Water quality sampling strategic network" is removed as the water quality performance across the strategic network will be monitored using permanent and temporary water quality units under DO8 Smart Networks – ITS Strategy

Potential to Remove Scope

Reason - Business as Usual activities

3. External specialist support to verify and package rehab schemes
5. PPRA
6. Development of strategic SV/AV inspections

Retained Scope

Reason – technology and approach is still developing

1. Strategic trunk main condition assessments
4. SR condition assessments

PROJECT OUTCOMES

1. Plan work packages to deliver schemes efficiently and effectively for the Watermains Rehabilitation Programme (WMRP).
2. Identify benefits, costs and targeted intervention expenditure on the clean water networks
3. Address Network Serviceability
4. Maintain adequate Customer Service
5. Understand and react in advance to potential Trunk Main potential failures
6. Understand and react in advance to potential Service Reservoir Water Quality failures

COMMENTARY ON MATERIAL CHANGES TO PROJECT OUTCOMES

If scope reduction is accepted, the following outcome is removed:

1. Plan work packages to deliver schemes efficiently and effectively for the Watermains Rehabilitation Programme (WMRP).

Outcomes 2-6 are relevant to the remaining scope.

A key deliverable of this development objective is assessments of the condition of our potable strategic pipelines and Service Reservoirs, to inform better investment decisions for the PC27 period.

UR MONITORING EXPECTATIONS

Progress on the delivery of this objective will be monitored and reported on through the annual cost and performance report process as a minimum. In addition, we expect NI Water to:

- Develop and submit an updated programme for the delivery of this objective.
- Engage with UR staff on the timing of additional engagement, reviews and the determination of any outcomes flowing from the successful completion of the development stages.
- An update on the modelling tools once developed and how NI Water intends to use them to identify and prioritise interventions is likely to be required as part of the engagement process.

HOW UR MONITORING EXPECTATIONS HAVE BEEN FULFILLED

On the assumption that the scope is reduced to

- "1. Strategic trunk main condition assessments"
- "4. SR Condition Assessments"

NIW will be engaging with the UR, either during the Mid Term Review (MTR) or more likely during the PC27 working groups, to continue these assessments after the MTR. This will include new technologies and best practice inspection techniques to assess the condition of strategic mains and SR structures, and their prioritisation for rehabilitation.

PROGRAMME

See DO Programme Document v1 dated 30/06/24.

KEY MILESTONES FOR DEVELOPMENT OBJECTIVE

Description Key PC21 FD DO Milestones	**FD21 Annex T Milestone Target Date**	**Status Vs FD21 Target**	**Current Milestone Target Date**	**Status Vs Current Target**	**Commentary on Material Milestone Date Changes *AND / OR* Reasons for any material Delay**
Submit updated programme to UR	N/A	N/A	Jun 22	Completed	*(AIR22 had Mar 23)* *See annual AIR submissions*
Provide UR with update on condition assessment approach	N/A	N/A	Mar 25 (Methodology to identify and execute inspections) Presentation to be forwarded.	On Target	*(AIR22 had Mar 24)* NI Water will engage with UR on remaining scope during the PC27 working group by Mar 25. This will be a list

					of completed and planned Inspections and reviews.
Strategic Trunk Main Condition Assessments	2021-2027	On target	2021-2027	On Target	***Milestone 1*** Phase 1 complete Dec 22 Phase 2 ongoing. Outputs will inform PC27.
Raw Water Aqueducts and Structure Investigations	2021-2027	N/A	N/A	Removed	Removed from DO22. Duplication of DO17
External Specialist Support to Verify and Package Rehab Schemes	2021-27	N/A	N/A	To be Removed	To be removed from DO22 as BAU. *Note Phase 1 WP completed Sep 22-Feb 23. Phase 2 WP planned for Sep 25.*
SR Condition Assessments	2021-2027	On target	Mar 27 Presentation in late 24 to share Reports and Impacts	On target	***Milestone 2*** AIR22 (Electroscanning Year 3 complete Phase 1 reports) had: • Output reports by summer 22 • Inspections by Mar 23 Note - Packages are developed on annual basis. Assessments will continue funding dependant
PPRA	2021-27	N/A	N/A	To be Removed	To be removed from DO22 as BAU. Note outputs are in annual AIR returns
Development	2022-25	N/A	N/A	To be	To be removed

of SV/AV inspections				Removed	from DO22 as BAU.
Water Quality Sampling Strategic Network	2022-25	N/A	N/A.	Removed	Removed from DO22. Duplication of DO08
Confirm Outline Capital Submission Projects List for PC27			June 25	On Target	To inform PC27 Business Plan
Confirm if this DO is continuing for PC27			June 25	On Target	Decision point on status of DO to inform PC27 BP
KEY MILESTONES FOR SOLUTION INVESTMENT					
Outputs utilised to generate and inform detailed intervention Projects for delivery by NI Water during PC21	2021-2027	On target	2021-2027	On target	No change. Will also inform PC27
EXPENDITURE [See Also Table DO1 below]					
FD21 Annex T Estimated Total Cost of DO (2018/19 prices)		**Forecast Total Cost of DO (Nominal prices)**		**Commentary on Material Total Cost Changes for DO**	
£3.35m		Original Overall Total was £4.8m for original scope (OR £3.93m if scope is reduced)		Combination of JI215, JI272 & JI130. Revised - See precise spending plan below	
PC21 FD Estimated Cost of Solution (2018/19 prices)		**Forecast Cost of Solution (Nominal prices)**		**Commentary on Material Solution Cost Changes**	
TBC		£0M		£0M is best estimate of forecast cost. This may change if any high priority rehabilitation is identified for PC21 spend during the assessments. The likelihood of this is low, but possible.	
ACTIVITY COMPLETED TO DATE AND OUTCOMES TO DATE (MARCH 2024)					
On the assumption that the scope is reduced to • "1. Strategic trunk main condition assessments" • "4. SR Condition Assessments" **NOTE DELAY IN BUDGET RELEASE SLOWS PLANNED INSPECTIONS AND THEREFORE SPEND** **1. Strategic trunk main condition assessments**					

Activities completed to date include:

- *See Milestone 1a of Strategic Pipeline Inspections to demonstrate completion of Strategic Trunk Main Condition Assessments – Phase 1.*
- In the last reporting year the inspection at Tullywhisker to Rakelly was completed and the resulting output report recommended replacement
- Pipe Testing Expenditure to date has been under JI 215 = £538K
- Pipe Testing Expenditure to remainder of PC21 will be under JI 333 = £390K
- Note there has also been SV testing under Ji 215 to a value of £225K Proposed Spend for Years 4 to 6 of PC21 Under JI 333 will be £210K

4. SR Condition Assessments

Activities completed to date include:

- Electro scanning of Concrete surfaces to inform efficient and effective concrete repairs. (£264K spent in Years 1 to 3 under JI 215 and £220K SPENT in Year 3, and £290K to be spent Years 4 to 6 under JI 333) Some sites included in Year 3 =Marble Arch High, Mormeal North and Drumaroad Chapel Hill (A total of 30 inspected in Year 3)
- This work facilitated NI Water to re prioritise Concrete Repairs and will inform future interventions.
- A Detailed Presentation on Electroscanning issues was given to Senior Managers last Spring (2023)
- In this reporting period NI Water Visually assessed 61 Service Reservoirs at a cost of £74K including: Lisburn Northern 1a and Knock High and Ballylagan New.
- See Milestone 2 SR Concrete Repair Amphora report example of the innovative technologies being trialled.

PLANNED NEXT STEPS FOR DELIVERY

On the assumption that the scope is reduced to

- "1. Strategic trunk main condition assessments"
- "4. SR Condition Assessments"

1. Strategic trunk main condition assessments

Planned next steps include:

- condition inspections on the Dunore WTW Strategic /Transmission Mains will go ahead and other mains are to be finalised potentially near Caugh Hill and Carmoney. (Stakeholders to agree the list in Summer 2024)

4. SR Condition Assessments

Planned next steps include continuation of:

- Ongoing visual inspections of SRs (Roughly 80 or so each year depending on practicalities)
- Electro scanning of further Concrete surfaces Roughly 25 to 30 reservoirs will be Electroscanned each year until the end of PC21, to inform efficient and effective concrete repairs (this will be a representative sample alongside the visual inspections.)

PROPOSED MAINTENANCE EXPENDITURE / ADDITIONAL OPEX from CAPEX

As none of the equipment is permanent, the additional OPEX from CAPEX will be zero/negligible

IMPACT OF SCOPE / PROGRAMME CHANGES ON CAPITAL DELIVERY / OUTPUTS PROGRAMME

N/A as no solutions exist as yet.

IMPACTS ON CAPITAL OUTPUTS PROGRAMME LINKED TO TABLES 40, 40a & 40b			
Links to Tables Completed	Yes ☐	No ☒	Comments N/A
RISKS & ISSUES ASSOCIATED WITH THIS DEVELOPMENT OBJECTIVE			
Risks include: • Uncertainties associated with new innovative technologies which are yet to be tried and tested			
WIDER BENEFITS OF THIS DEVELOPMENT OBJECTIVE			
Wider benefits include: • Improvement in the focus of delivery of robust and resilient prioritised water infrastructure interventions • Improvements in Customer experience and levels of service • *Improved Water Quality*			
LINKAGE TO OTHER DEVELOPMENT OBJECTIVES			
There is no linkage to other development objectives. The removal of Raw Water Trunk Main Rehabilitation (due to duplication with Section 17) and the removal of Water Quality sampling strategic network (due to duplication with Section 08) means there is no longer any linkage with these DO's. The remaining scope (i.e. condition assessments of strategic pipelines and SRs) is not linked to any other Development Objectives.			

Development Objective – Expenditure Summary

Table DO1 Expenditure on Development Objective (Nominal Prices)

Category	Spend to End March 2024 (£m)	Anticipated Future Spend (£m)	Anticipated Total DO Spend (£m)	Comment
Civil	Pipe Testing Expenditure Years 1 to 3 has been under JI 215 =£538K *Note: SV Testing to date under JI 215 =£225K*	Pipe Testing Expenditure to remainder of PC21 will be under JI 333 =£390K Note SV Testing for remainder of PC 21 = £210K under JI 333	Total Estimate Spend on Pipe Testing in PC21 = £928K *Total Estimated Spend on SV Testing in Pc21 is =£435K*	
M&E				
Materials / Equipment				
NIE				
Lands				
Site Investigation				
Consultancy	Electro scanning of Concrete surfaces to inform efficient and effective concrete repairs. £264K spent in Years 1 to 3 under JI 215 £220K SPENT in Year 3 under JI 333 ,	£290K to be spent Years 4 to 6 on Electroscanning under JI 333	Total Estimated Spend on Electroscanning in PC21 = £774K	
Pilot Studies				
Totals	£0.538M Testing plus £0.484M Electroscanning = **£1,022M** (Add in SV Testing @£0.225M = **£1.247K)**	£0.39M Testing plus £0.29M Electroscanning **= £0.68M** (Add in SV Testing @£0.210M =**£0.890M**)	Total Estimate is: Testing (£928K) plus E/scanning(£774K) **Sub Total = £1,702M** **Add SV Testing £0.435M** **Total = £2.137M**	
PC21 Projected Spend on Development Objective				

DEVELOPMENT OBJECTIVE [DO]		
Ref	Development Objective	Sub-Programme
23	**Facilities H&S Compliance**	**20e**

GOVERNANCE		
Directorate	**SRO**	**Project Lead**
AD	[redacted]	[redacted]

REASON DEVELOPMENT OBJECTIVE IS NECESSARY

In depth Health and Safety audits were prompted by specific actions included within our Corporate H&S Strategy Action Plan 2018-2021. These audits have confirmed the following:

- A significant lack of legal compliance with respect to basic 'hard' facilities management responsibilities, including fire safety, legionella assessment, asbestos management, control and general maintenance and servicing of some fixed plant and equipment;
- Lack of competently trained personnel on site in charge of premises related issues;
- Lack of training for field operative / plant managers (and consequent lack of knowledge) in regulatory requirements for management of premises, such as DSEAR, fire safety including emergency light testing, legionella, asbestos management;
- A lack of grounds or property maintenance budget as stated by some premises and field managers;
- A common view that premises maintenance is not a priority.

DEVELOPMENT OBJECTIVE TO CONFIRM SOLUTION SPEND IN PC21 &/or PC27

PC21 only ☐	**PC27 only ☐**	**PC21 and PC27 ☒**

PROJECT SCOPE

- Continued development of a Facilities Management Strategy and implementation of recommended outputs from audits and surveys is required.
- Meeting minimum statutory obligations with regard to managing asbestos containing materials, basic fire safety provisions and plant and equipment maintenance amongst others.
- If such work is not undertaken, some employees and contractors will remain exposed to both health and safety risks that could result in fatality, life-changing injury or permanent ill-health symptoms.
- Compliance with statutory obligations also significantly reduces the potential for prosecution, regulatory fines and associated civil claims, increased insurance costs and reputational damage.
- An organisation cannot become 'World Class' unless it first aspires to comply with its legal obligations'

No change to scope.

COMMENTARY ON MATERIAL CHANGES TO SCOPE

N/A

PROJECT OUTCOMES

Report and audit showing compliance with minimum statutory H&S obligations.

Health and safety legal compliance and minimising risk to:

- Employees and contractors
- Potential for prosecution
- Regulatory fine
- Increasing insurance costs, and
- Reputational damage

No change to PC21 FD Project outcomes.

COMMENTARY ON MATERIAL CHANGES TO PROJECT OUTCOMES

N/A

UR MONITORING EXPECTATIONS

Progress on the delivery of this objective will be monitored and reported on through the annual cost and performance report process as a minimum. In addition we expect NI Water to:

- Develop and submit a programme for the delivery of this objective.
- Engage with UR staff on the timing of additional engagement, reviews and the determination of any outcomes flowing from the successful completion of the development stages.

An update on how the Facilities Management Strategy is being developed and used to identify and prioritise interventions to meet legislative requirements is likely to be required as part of the engagement process.

HOW UR MONITORING EXPECTATIONS HAVE BEEN FULFILLED

Progress is monitored at a number of levels via monthly dashboard reporting. The dashboards are reviewed at different monthly management meetings, Board level, Executive Committee and Risk Committee. The reports monitor key project milestones and compliance. Programmes such as Fire Safety, Legionella, asbestos and PUWER have been sub-divided into prioritised risks and progress is monitored on these sub programmes and reported monthly.

A programme of as asset surveys and high risk remedial actions has been completed. A PPM programme was commenced in PC21 Year2. This PPM programme is being rolled out across sites with the aim of all c900 sites in scope, having PPM inspections within PC21. Progress is dependent on funding. Investment has been required in areas such as alarm systems and Legionella controls.

The Facilities Management strategy is to develop and implement a permanent programme of inspection and testing across all the relevant assets to meet SFG20 specification. SFG20 is the industry standard for building maintenance specification.

The UR is provided with updates on progress of the DO through the AIR process.

PROGRAMME

See Master DO Programme v1 dated 30/06/24.

A high level summary of activities associated with this Development Objectives is presented below:

Key Dates (PC21 - 2021-2027)	21/22	22/23	23/24	24/25	25/26	26/27
Facilities building surveys (922 sites)	□					

Facilities compliance remedial actions	□	□				
Phased Planned Preventative Maintenance schedule		□	□	□	□	□
Risk assessments Fire, Legionella, Asbestos	□	□				
Fire, Legionella & Asbestos remedial Actions		□	□	□	□	□
Risk Assessments & remedials Public Accessible sites			□	□	□	
Risk assessments PUWER		□	□	□		

KEY MILESTONES FOR DEVELOPMENT OBJECTIVE					
Description Key PC21 FD DO Milestones	**FD21 Annex T Milestone Target Date**	**Status Vs FD21 Target**	**Current Milestone Target Date**	**Status Vs Current Target**	**Commentary on Material Milestone Date Changes *AND / OR* Reasons for any material Delay**
Initial H&S Surveys	2021-27	Complete	N/A	Complete	H&S surveys are complete. This formed a Remedials Programme and a Planned Preventative maintenance Programme – evidence at end of this report.
Projects categorised and prioritised	N/A	N/A	2022	Complete	Prioritisation of Remedials and PPM programme.
Provide update to UR	N/A	N/A	AIR23	Complete	An update was provided in AIR23 submission
Confirm Outline Capital Submission Projects List for PC27			June 25	On Target	To inform PC27 Business plan
Confirm if DO continuing for PC27			June 25	On Target	To inform PC27 Business plan
KEY MILESTONES FOR SOLUTION INVESTMENT					
Facilities upgrades	2021-27	On target	2021-27	On target	No change

EXPENDITURE [See Also Table DO1 below]		
FD21 Annex T Estimated Total Cost of DO (18/19 prices)	**Forecast Cost of DO (Nominal prices)**	**Commentary on Material Total Cost Changes for DO**
£10m	FM £19.2m (IPAC 2603 & 2604) + H&S £7.5m	FM – Number of sites to have facilities remedial work and planned preventative maintenance has increased significantly from initial PC21 planning – now c900 sites are in scope. Forecast cost estimates are being refined as the programme is rolled out.
PC21 FD Estimated Cost of Solution (18/19 prices)	**Forecast Cost of Solution (Nominal prices)**	**Commentary on Material Solution Cost Changes**
TBC	Included in forecast cost of DO above	As outlined above

ACTIVITY COMPLETED TO DATE AND OUTCOMES TO DATE (MARCH 2024)

Activity Completed to date and its outcome

- The Corporate H&S Strategy Action Plan 2018-2021 was updated to reflect more detailed and measurable actions to cover the period 2020-25.
- The new Corporate H&S Strategy and Action Plan 2020 – 2025 was endorsed in June 2020 comprising 4 workstreams:-

(i) FM compliance
(ii) H&S Management System
(iii) SHE Software
(iv) Cultural Development

- A detailed work programme has been developed to reflect this.
- The 4 workstreams have been categorised as either ‘compliance’ or ‘improvement’ with prioritisation given to the former.
- Workstream (i) and (ii) are wholly or mainly compliance and workstreams (iii) and (iv) are deemed as improvement projects.
- The work programme has been prioritised as Top 5 compliance projects, other high priority compliance projects and all other programme projects.
- Compliance surveys were completed by 03/22
- Progress is reported monthly to NIW EC and NIW Board as well as NIW Risk Committee each quarter.

A centralised Facilities Management team has been established under the Head of Future Workplace. The FM team will deliver the outcomes required under workstream (i) FM compliance.

A PPM schedule has been established for c900 NIW sites – to be rolled out over PC21. The number of sites with a PPM regime is now c500 (from 262 AIR23). It is planned that all 900 sites will have a PPM regime by end of 24/25 (subject to funding).

PLANNED NEXT STEPS FOR DELIVERY

- Continue to deliver detailed programme of work, monitor and manage programme
- Revise costings and budget requirements to deliver the programme based on detailed work activities. The original estimate in the FD of £10m for facilities (2603 & 2604) has been revised to approx. £19.2m over the six year period 21/22- 26/27 (subject to review and potential change). The current estimate for H&S activities is £7.5m over the six year period 21/22- 26/27.
  Both Facilities and H&S Outputs will be subject to annual programmes and budgets.
- Continue to report monthly to NIW EC and NIW Board on progress of delivery and spend against approved budget.
- Planning work to be commenced for projects required for PC27 with a draft project list due by mid-May 2024 (internal milestone as part of the PC27 BP process).

PROPOSED MAINTENANCE EXPENDITURE / ADDITIONAL OPEX from CAPEX

The proposed facilities maintenance expenditure over PC21 is currently forecast at £19.2m.
The proposed H&S expenditure over PC21 is currently forecast at £7.5m.
Ongoing Capex requirements to maintain the compliance levels achieved by the end of PC21 will be included in the PC27 business plan.

IMPACT OF SCOPE / PROGRAMME CHANGES ON CAPITAL DELIVERY / OUTPUTS PROGRAMME

N/A

IMPACTS ON CAPITAL OUTPUTS PROGRAMME LINKED TO TABLES 40, 40a & 40b

Links to Tables Completed	Yes ☐	No ☒	Comments Outputs from DO23 have no material impact on programme for projects in the Tables 40, 40a and 40b

RISKS & ISSUES ASSOCIATED WITH THIS DEVELOPMENT OBJECTIVE

Price fluctuations due to volatile market.

Resources, high demand for skilled trades and high staff turnover in the building trades.

WIDER BENEFITS OF THIS DEVELOPMENT OBJECTIVE

Benefits

- Statutory Workplace Compliance.
- ISO 14001 & ISO 9001 audit compliance.
- Reduce risk of injury to the workforce, contractors and visitors.
- Life cycle planning for all facility assets.
- Asset information and condition register.
- Reduce risk of prosecution or claims.
- Centralised experienced team.

LINKAGE TO OTHER DEVELOPMENT OBJECTIVES

At this point, based on present knowledge, there is no direct evidence to demonstrate that there is a link between this Development Objective and the other Development Objectives.

Development Objective – Expenditure Summary

Table DO1 Expenditure on Development Objective (Nominal Prices)

Category	Spend to End March 2024 (£m)	Anticipated Future Spend (£m)	Anticipated Total DO Spend (£m)	Comment / Project Code(s)
PPM	2.4	3.8	6.2	KI737, KI800, KI801,KI802, KI803, KI804
FM Remedial	4.7	4.4	9.1	
Consultancy	2.2	1.7	3.9	
H & S	2.4	5.1	7.5	
Pilot studies	-	-	-	Initial allowance made no longer required.
Add Others as necessary				
Totals	**£11.7m**	**£15.0m**	**£26.7m**	
PC21 Projected Spend on Development Objective			**£26.7m**	Forecast cost estimates are being refined as the programme is rolled out.

Table DO2 Facilities Expenditure on Development Objective

Project	21/22 (k)	22/23 (k)	23/24 (k)	24/25 (k)	25/26 (k)	26/27 (k)	TOTAL (k)
PPM Compliance Inspections	225	1,150	1,000	1,200	1,300	1,300	**6,175**
PPM Remedial Minor repairs	100	300	350	400	200	200	**1,550**
Base Maintenance Remedial Works	1,354	1,300	1,300	1,200	1,200	1,200	**7,554**
FM specialist support	310	350	555	300	400	350	**2,265**
Specialist Risk Assessments	805	100	80	400	150	150	**1,685**
	2,794	**3,200**	**3,285**	**3,500**	**3,250**	**3,200**	**19,229**

Forecast cost estimates are being refined as the programme is rolled out.

Table DO3 H&S Expenditure on Development Objective

H&S Projects	21/22 (k)	22/23 (k)	23/24 (k)	24/25 (k)	25/26 (k)	26/27 (k)	TOTAL (k)	Comments
DSEAR			60	610	650	600	1920	Increase ~£1400k
PUWER	170	610	136	578	500	500	2494	
Occupational Road Risk	280	132	53	336	200	100	1101	Increase ~£600k
H&S projects (HAVS, RA's, noise)				320	325	330	975	New H&S projects. KI843.
Gas monitoring		122	283				405	previously under DSEAR
Asbestos	258	13					271	Project closed
Lightning	35	116					151	Project closed
Work at Height Equipment Surveys	45						45	Project closed
Tree Safety Management		62	65				127	Project closed
	788	1055	597	1844	1675	1530	7489	Originally £5m.

Total spend 2023/24 has seen a significant reduction mainly due to a spend freeze from Dec 2023 when no new projects were approved.

DEVELOPMENT OBJECTIVE [DO]		
Ref	Development Objective	Sub-Programme
24	**Smart Meters**	**19**

As noted in our PC21 Mid-Term Review submission, section 3.1.2, work on this development output is complete and it is now considered closed.

DEVELOPMENT OBJECTIVE [DO]		
Ref	Development Objective	Sub-Programme
25	**Addressing scope uncertainty for the Mid-Term Review**	**12 & 16**

As noted in our PC21 Mid-Term Review submission, section 3.1.2, work on this development output is complete and it is now considered closed.

NI WATER ANNUAL INFORMATION RETURN - TABLE 48 SOCIAL AND ENVIRONMENTAL GUIDANCE PRIORITIES FOR WATER AND SEWERAGE SERVICES (202

Drinking Water Supply and Demand			
Policy	**DW Aim 1 - Manage drinking water quality risk in a sustainable manner from source to tap**	**Update on Delivery April 2024**	**BRAG**
DW 1A	**Maintain and review Drinking Water Safety Plans (DWSP) for all drinking water catchments**. NI Water should continue to maintain and review drinking water safety plans for all drinking water catchments and also continue to implement a prioritised investment programme to manage drinking water quality risks informed by DWSPs.	DWSPs remain in place for all our WTW supply systems. This is a Core Business activity. The risk assessment covers all stages of the water supply system from source (catchment) to customer tap in line with Regulation 30 of the Water Supply (Water Quality) Regulations (Northern Ireland) 2017. DWSPs are reviewed at least annually, or following an event or occurrence or if a new or changing risk is identified, when an interim review will be carried out. DWSPs are submitted to the Drinking Water Inspectorate (DW) on an annual basis as part of the DWI annual Information Requirement or where there has been a significant change to the risk score. The 2024 DWSPs Annual Return to the DWI made before the required date of 31/03/2024. The DWSPs will be used to inform the future capital investment programme as appropriate.	G
DW 1B	**Put effective protection measures in place for drinking water sources.** To help deliver this policy, NI Water should review the designation of all existing (and future) drinking water sources as Drinking Water Protected Areas (DWPAs) and ensure appropriate monitoring and regulatory protection measures are put in place.	DWPAs have been assigned by NIEA for our drinking water catchments in line with WFD principles. NI Water worked with NIEA during this process. DWPA meetings are in place through NIEA, which NI Water are active members. Through this NI Water and NIEA share raw water and WFD monitoring data and review monitoring programmes to ensure that appropriate monitoring is in place. NI Water raw water monitoring is in place and ongoing. Sampling frequencies are reviewed in line with regulatory requirements and risk assessment. This is managed as BAU.	G
DW 1C	**Introduce sustainable catchment management at all drinking water sources**. NI Water should continue to introduce sustainable land management practices at all drinking water sources through collaborative partnership working, where possible, and also help to educate those with private water supplies about the importance of protecting groundwater. Specifically, NI Water should develop a programme to implement appropriate recommendations developed through the SCAMP programme in PC15.	• Catchment Team continue to work with many external stakeholder groups (High Mournes Working Group, Forever Mournes Partnership, various Wildfire groups at strategic and practical level) to jointly develop catchment management measures. • Catchment Team continue to work NI Water colleagues to develop corporate Biodiversity Strategy. • Catchment Team continue to work developing new partnerships with eNGOs to deliver catchment initiatives. • Catchment Team progressing with Lough Bradan forest to peatland restoration works - Phase 2 is planned to begin in summer 2024 after negotiations with DAERA Forest Service on releasing lands. • Catchment Team working with RSPBNI progressing with Dungonnell catchment Phase 2 peatland restoration project which will hopefully be registered under the IUCN (International Union for the Conservation of Nature) Peatland Code. • Catchment Team lead on promoting NI Waters commitment to the All Ireland Pollinator Plan 2021-2027 setting aside pollinator areas in NI Water estate in summer 2023, engaging with colleagues to help survey the areas to be mapped on the AIPP	G
DW 1D	**Manage water quality risks from the water distribution system**. NI Water should continue to effectively manage and operate the distribution system to maintain standards of drinking water quality, in line with current standards, and to prevent deterioration in drinking water quality including addressing iron exceedances and delivering the water mains rehabilitation programme to address water quality issues and consumer complaints.	NI Water manages water quality risks from the water distribution system as per best practice. This includes activities such as:- - Service Reservoir cleaning Programme and associated Risk-Based Service Reservoir condition Assessments - Drinking Water Safety Plans have been developed and are reviewed and updated on an annual basis. - The methodology's for prioritising watermains rehab include both Water Quality and complaints information as drivers for priority of replacements. - Following the successful completion of mains conditioning pilots it is planned to utilise this technique in the future subject to approvals and subsequent funding. - Drinking water quality targets are in place for iron and other significant parameters, designed to protect public health.	G
DW 1E	**Remove lead pipes and fittings from drinking water supply systems.** NI Water should continue implementing its strategic lead policy and lead pipe replacement programme focusing on the aim of removing all lead pipes from the public supply system and improving compliance with current lead standards. In addition, NI Water should work with stakeholders to develop and implement a strategic risk-based approach for addressing lead compliance issues associated with private supply pipes and domestic distribution systems.	NI Water is delivering its programme of lead pipe replacements as per our PC21 Plan. NI Water had completed a pilot replacing both private and public elements of lead service pipes in 2018. The Lead Service Pilot Project Report was issued to DfI for comment on the 25th April 2018. During 2020 NI Water engaged with DFI who are seeking to develop an options paper on possible routes to resolve the longer term lead pipe issues with particular focus on private lead pipes for informing senior officials.	G

DW 1F	**Manage water quality risks from defective water fittings systems.** NI Water should continue to effectively monitor and regulate compliance with the Water Supply (Water Fittings) Regulations (Northern Ireland) 2009 and reduce the risk of contamination or waste of public water supplies through defective water fittings. It should continue its work with the WRAS Point of Sale working group, to help change the behaviours of manufacturers & retailers. In addition to this, NI Water should also continue to educate and improve public awareness of the importance of compliant water fittings and using licensed plumbers (Watersafe). NI Water should be encouraged to keep abreast of changes in industry standards and developments and should maintain systems and processes necessary to ensure effective regulation of water fittings.	NI Water monitor and regulate compliance with Water Supply Regulations as a BAU item. NI Water continues to proactive and reactively inspect customer premises for compliance with the water fittings regulations. NI Water is a fully participating and contributing member of the UK's water industry organisation known as the Water Regulation United Kingdom (WRUK). WRUK acts as one voice for the water industry on a national level and also assists water companies interpret the regulations on a consistent basis. Customers complying with their obligations contained within the regulations will significantly mitigate the risk of waste, undue consumption, waste and contamination of mains water supplies. Customer compliance with the Regulation 4 in the regulations and appropriate EU and BS standards as well as the Regulators (DfI) specification, will significantly reduce the risk of waste, misuse, undue consumption, erroneous measurement and contamination of water through non-compliant water fittings. This is a statutory obligation and as such will be an ongoing activity for NI Water. This activity will not end or change unless DfI amend the current regulations. Information on the companies obligations and powers, guidance to householders and	G
DW 1G	**Manage water quality risks from domestic distribution systems.** NI Water should continue to work with stakeholders to ensure adequate resource and guidance is in place to ensure the effective monitoring and regulation of domestic distribution systems is maintained.	NI Water is not the lead owner of this action but is happy to work with relevant stakeholders as appropriate to ensure adequate resource and guidance is in place to ensure the effective monitoring and regulation of domestic distribution systems is maintained.	B

Policy	DW Aim 2 – Meet the water demand needs of society, the economy and the environment	Update on Delivery	
DW 2A	**Provide access to efficient, safe, secure drinking water supplies.** NI Water should continue to provide financial assistance towards the initial cost of providing a water connection to encourage connections to the public supply system (reasonable cost allowance (RCA)) and also to put in place and implement improved mechanisms to ensure integration between water investment and local development plans, to help ensure that customers' water needs are efficiently met in the future. It should also take account of any future requirements to increase access to drinking water in public places.	In relation to financial assistance towards the initial cost of providing a water connection this is a core business activity under Article 76 of the Water and Sewerage Services (Northern Ireland) Order 2006. The financial contribution is set out in the current Scheme of Charges which is reviewed annually. In relation to local development plans, NI Water provides assessments on water (and wastewater) capacity. This information is then incorporated into Preferred Options Papers and in preparing Draft Plan Strategy documents. DfI is also provided with this information. NI Water also review and respond to Draft Plan Strategies received from Councils, emphasising issues concerning soundness / unsoundness in regard to water and wastewater capacity information used in the council LDP process.	G
DW 2B	**Water resource management and drought planning to inform long term investment needs.** NI Water must deliver the WR&SRP and review it, in accordance with the legislation, energy considerations and any associated guidance, to inform subsequent price control periods.	The draft WR & SR Plan was completed in January 2024 and issued for consultation until 24th May 2024. The final plan being developed following consultation and due to be published by the end of 2024.	G
DW 2C	**Put effective systems and processes in place to avoid over abstraction.** NI Water should continue to develop, agree and implement water abstraction monitoring and management plans with NIEA.	Ongoing work with NIEA AIL team to review abstraction licences. Managed as BAU. PC21 Abstraction flow monitoring project to be delivered through PC21. During the PC15 Period all 23 of NI Water's operational WTWs' abstraction points were surveyed to determine what additional monitoring arrangements would be needed for any revised abstraction licences. Based on the findings of these surveys NI Water and NIEA mutually agreed on a priority list of 11 WTWs and 1 Impounding reservoir which should be taken forward for flow monitoring in PC21. The proposed solution is to implement 19no. flow monitoring arrangements at identified abstraction points, with 18no. quality monitoring and actuated valve systems for 6no. prioritised WTWs. This will result in compliance with revised abstraction licences; satisfaction of other environmental obligations associated with water abstraction through compensation flow monitoring and management; opportunities for operational efficiencies; and reduced exposure to health and safety risks through remote operation of valve systems. This option also allows for future installations of further quality monitoring and actuated valve systems at remaining identified abstraction points in following investment periods (such as PC27).	G
DW 2D	**Encourage households and businesses to be water efficient.** NI Water should continue to invest in education and public awareness campaigns to promote water efficiency and to highlight the link between water efficiency and lower energy bills. NI Water should continue to invest in its education team resources, including the waterbus and targeted Corporate Social Responsibility activity such as its monthly Cares Challenge. It should also be mindful of any new initiatives in GB regarding water efficiency.	The education team have been proactive in influencing consumer behaviour through effective education and community campaigns. They have successfully increased awareness of the need for water conservation and more environmental friendly lifestyle choices. Some of these educational campaigns have promoted and prioritised NI Water's key messages such as the importance of preparing for winter, water efficiency, bag it and bin it (preventing pollution), customer care and reducing single use plastic.	G
DW 2E	**Deliver water efficient residential and commercial development.** NI Water should implement measures to reduce average water consumption through sustainable development and work with the Department and other stakeholders to develop and implement policies in respect of retro-fitting water efficiency/recycling measures in homes and businesses.	The ability to drive and implement measures to reduce average water consumption through sustainable development will be influenced by wider local government decisions. NI Water have been liaising with DfI to get a view if there are any plans to include water efficiency standards within Building Regulations similar to E&W which is key step to influence this change. In addition there have also been discussion in relation to the introduction of a mandatory water efficiency label similar to the energy efficiency label.	G

Policy	DW Aim 3 - Resource efficient drinking water treatment and supply chains	Update on Delivery	
DW 3A	**Achieve a Sustainable Economic Level of Leakage (SELL) in all supply systems.** NI Water should continue to focus on achieving and exceeding the Sustainable Economic Level of Leakage (SELL) and strive towards to SELL targets set out in the WR&SRP. NI Water should also review and update the SELL at regular intervals consistent with practice in the industry. NI Water should also work with stakeholders to develop and implement proposals to reduce private supply leakage.	A development project is on-going in PC21 to define a best practice approach and methodology for targeted mains renewal for leakage reduction purposes. The outputs of this project will inform NI Water's approach to leakage reduction and links to Water Mains Rehab.	G
DW 3B	**Improve the energy efficiency of the public drinking water supply system.** NI Water should review existing water treatment and supply systems to identify how potential energy efficiency savings might be achieved and also develop and implement a programme of energy efficiency improvements across the water and sewerage infrastructure and asset base. In addition, NI Water should develop short and long-term energy efficiency targets specifically for PC21 and beyond into PC27.	With better business analytics and computing power, NI Water has been able to understand production costs associated with producing and movement/supply of water. Improved interconnectivity within the East Zone, North Zone, Central Zone, South Zone and further insight into the West Supply Zone. This has permitted a certain amount of optimisation, with supply taken from the sources that requires the least amount of energy usage and cost taking into account volume and availability of upland source water. NI Water and NI Water Alpha are working jointly to produce and supply water at the lowest cost, whilst maintaining the highest quality. • Lower Capex solutions delivery • Use of Ground water / Boreholes as a potential solution option to support lower Carbon and improved resilience • Minimisation of Opex from Capex – through engineering design philosophies • Lower Opex – to align with our PC21 energy programme (Row 26) • Design core teams – they should look at the best whole life cost / delivery solutions for each zone	G
DW 3C	**Increase the use of renewable energy in the public drinking water supply system.** NI Water should consider further opportunities to invest in renewable energy generation (e.g. solar panels & wind turbines) to reduce running costs at drinking water facilities. NI Water should also consider generating renewable electricity through innovative management of drinking supply systems (e.g. generating hydro-power from excess water mains pressure). NI Water should consider the business merits of investing to save in other innovative areas of sustainability which can be employed in its business and to strive to increase the use of renewable energy in the public water system by also exploring the purchase of renewable energy.	NI Water are progressing with hydro at 3 sites. We have received funding from DfE for the first 3 projects.	G
DW 3D	**Reduce the amount of chemicals used in the drinking water treatment and supply systems.** NI Water should minimise the amount of chemicals used in the drinking water treatment and supply systems by improving raw water quality through natural means such SCAMP and also by improving the water supply system to minimise the amount of chemicals needed e.g. orthophosphate. Initiatives, such as weed-wiping, should be further investigated and promoted in the agricultural industry to improve raw water quality.	A wide range of sustainable projects have been undertaken by the SCAMP team with multiple benefits and objectives, including the reduction of chemical usage in the water treatment process. These projects are planned to be completed in a programme throughout the PC21 period. Four weed-wiping projects have been completed and consideration is being given to future projects. This is in addition to the extensive INTERREG Source To Tap project which is led by NI Water and also involved pesticide initiatives including weed-wiping in the Derg catchment.	G

Flood Risk Management and Drainage			
Policy	**FRMD Aim 1: Deliver Sustainable Flood Resilient**	**Update on Delivery**	
FRMD 1A	**To ensure land-use planning decisions are informed to help minimise flood risk.** NI Water should put appropriate resources in place to effectively fulfil its legal obligations. Separate storm sewers should not be connected to the combined sewer system, where there are viable alternative options for managing surface water. NI Water should also ensure it has an appropriate system in place to effectively implement its powers in respect of consideration and suitability of SuDS when considering wastewater connections.	NI Water has resources in place to fulfil its statutory planning obligations. Competent advice is provided relating to flood risk and other impact potential recommending caution in planning determinations where flood risk exists or potential is not properly understood . In alignment with legislative powers incorporation of SuDS within new development site adoption agreements is now 'Business as Usual'. Separated storm sewerage is default design requirement for all new management of surface water.	G
FRMD 1C	**Sustainable Drainage Systems (SuDS).** NI Water should put appropriate resources in place to ensure that: (i) Sewers for Adoption (NI) remains relevant and reflects new and emerging policies; and (ii) it continues its work with the Department and other stakeholders, including councils, to promote the use of SuDS and to establish clear working procedures for implementation.	NI Water remains available to Dfl Stormwater Management Group and policy development. NI Water has responded to Dfl's consultation on 'Flooding and Sustainable Drainage'. NI Water remains committed to examining and adopting new policy in respect of sustainable drainage.	G
FRMD 1D	**Design for drainage exceedance to be incorporated into all new drainage infrastructure.** NI Water should put appropriate procedures and resources in place to ensure 'design for exceedance' requirements in Sewers for Adoption (NI) are effectively implemented in new developments.	Design for Exceedance' is incorporated within new development adoption agreements where proposals are expected to demonstrate good design in respect of overland flow path and water egress location etc.	G
Policy	**FRMD Aim 2: Manage the Catchment to Reduce Flood Risk**	**Update on Delivery**	
FRMD 2A	**Effective regulation of reservoir construction and maintenance.** NI Water should comply with the provisions of the Reservoirs Act 1975 on a voluntary basis, in respect of its impounding and service reservoirs, until such time as the Reservoirs Act (Northern Ireland) 2015 is fully commenced.	NI Water does comply with the provisions of the Reservoirs Act 1975 on a voluntary basis, in respect of its impounding and service reservoirs and to that end has commenced regular inspections of the 44 impounding reservoirs. This is completed by a team of 14 inspection officers. Section 12 inspections are happening bi-annually by the Supervising Engineers (AECOM) and NI Water first internal Supervising Engineer and 10 yearly by the All Reservoir Panel Engineer. Works are ongoing at multiple reservoirs across NI Waters portfolio as a result of the previous Section 10 reports and this work will conclude over the next c12 months. S10 inspections are already underway to inform the PC27 plan. NI Water continues inspections of potential controlled service reservoirs aligned with our cleaning programme. These inspections will provide maintenance matters and matters in the interest of Safety (dictated by the all reservoir panel engineer) which will be addressed by a capital programme ensuring we retain Responsible Reservoir Manager Status	G
FRMD 3B	**Provide Sustainable Integrated Drainage in Rural and Urban Areas.** To help deliver this policy NI Water will:- (i) work with the Department and NIEA (amongst other stakeholders) and utilise evidence from its Integrated Environmental Modelling (IEM), DAPS and SWM tools and to identify and implement stormwater separation and infiltration reduction schemes to address unsatisfactory intermittent discharge (UIDs), pollution incidents, out-of-sewer flooding, surface water flooding and providing capacity for development (ii) contribute to any future development and implementation of sewerage recommendations and policies arising from the Stormwater Management Group in relation to future sustainable drainage systems.	Integrated Environmental Modelling is incorporated within the Catchment Based Outcomes working group of Wastewater Regulation Reform. NI Water is working in close collaboration with NIEA and other stakeholders to produce evidence to recommend appropriate development of regulatory policy. NI Water's objectives within Drainage and Wastewater Management Plan aims to utilise SWM tools including sustainable drainage to alleviate flood risk and/or development constraint pressure. NI Water remains available to Dfl Stormwater Management Group and policy development.	G
FRMD 3C	**Manage 'private' drainage systems to reduce the risk of flooding.** To help mitigate the impacts of PDI, NI Water will be expected to: (i) continue to work with the other drainage organisations (Dfl Rivers or Dfl Roads) through FIPG, and other fora, to identify PDI to ensure a complete and up to date dataset is maintained ; (ii) include funding and resources for LWWP, DAPs, IEM and FIPG purposes to address impacts to the network arising from PDI ; and	NI Water has provided a response to Dfl consultation on 'Flooding and Sustainable Drainage' and continues to be available to Dfl Stormwater Management Group and Flood Investigation Planning Group (FIPG) or similar group as determined by current Dfl review, for the development and uptake of new policy. NI Water continues to work with Dfl LWWP to assess opportunities for blue / green infrastructure within Stormont Estate.	G
Policy	**Improve Flood Resistance and Resilience in High Flood Risk Areas**	**Update on Delivery**	
FRMD 4A	**Develop and maintain accurate information on flood risk** NI Water must make progress towards the delivery of measures set out in the Executive's FRMPs (2021-27) and also contribute to the development of the next cycle of flood risk management planning for the 2027-2033 period.	NI Water continues to be a member of the Floods Directive Technical Stakeholder Group (FDTSG). NI Water presented to FDTSG (31/08/21) in relation to measures (Enhanced DAPs) and provided prioritised programme to support final FRMP (13/10/21), NI Water continue to deliver to provided programme.	G
FRMD 4C	**Reduce the number of properties at risk of sewer flooding.** NI Water should continue to reduce the number of properties at risk of internal and external out-of-sewer flooding to meet the associated annual target set by the Regulator and continue to invest in its various education campaigns, including messages being delivered through online, web and social media, to ensure that the public is aware of the impact its actions have on the sewerage system.	NI Water is maintaining a register of properties at risk of internal (DG5) and external flooding. The register has developed in confidence in the intervening time with an established system of additions, investigation of root cause and removal by company action or other means now in place and informing the PC21 investment. Other corporate tools are being introduced to complement this work including sewer risk model and capacity mapping.	G

FRMD 4D	**Deliver a programme of integrated surface water drainage schemes to alleviate flooding.** (i) NI Water must broaden the scope of drainage area plans to be integrated by incorporating surface water management and integrated drainage design for exceedance in line with current UK best practice for Drainage and Wastewater Management Planning, the preliminary NI Integrated Drainage Investment Planning (IDIP) Guide and any future guidance issued by relevant bodies. Surface water management measures should be quantified and coordinated appropriately with the Integrated Environmental Modelling framework to assess the environmental impact of such measures in a drive to achieve Northern Ireland's Long-Term Water Strategy sustainability goals. To help deliver these polices NI Water must:- (ii) work with the Department, Councils and other stakeholders to develop and implement the sewerage aspects of integrated drainage schemes to manage surface water flooding in urban areas (incorporating storm drains, SuDS, sewers and watercourses); (iii) develop and implement a prioritised programme of Integrated Environmental Models (IEMs) / Drainage Area Plans (DAPs), targeting the 12 Areas of Potential Significant Flood Risk (APSFR), as appropriate, including assisting in the development of integrated drainage modelling in specific locations on a case by case basis, where this has been identified as necessary through the preliminary NI IDIP Guide; (iv) progress integrated Drainage Area Plans and associated surface water management measures identified through the FRMPs; and (v) prioritise any work identified through the Flood Investment	NI Water continues to be a member of the Floods Directive Technical Stakeholder Group (FDTSG) and Flood Investment and Planning Group (FIPG). NI Water presented to FDTSG (31/08/21) in relation to measures (Enhanced DAPs) and provided prioritised programme to support final FRMP (13/10/21), NI Water continue to deliver to provided programme. NI Water is progressing its programme of Integrated Environmental Modelling on a prioritised basis. NI Water continue, subject to funding from DfI, to develop Integrated Drainage Models for identified Living With Water Programme (LWWP) areas. NI Water is also supporting the development of a Strategic Drainage Infrastructure Plan for Derry/London Derry as part of the LWWP.	G
Policy	**Be prepared for extreme weather events**	**Update on Delivery**	
FRMD 5C	**Effective flood emergency planning and delivery structures**. NI Water is a key member of the Floods Strategy Steering Group (FSSG) and Civil Contingencies Group Northern Ireland (CCGNI) and should continue to contribute to delivering the group's key functions including a coordinated response from Government during flooding incidents and effective emergency planning,	NI Water has a well-developed Major Incident Plan that provides a fully planned reactive response to all types of emergency incident including out-of-sewer flooding. An audit of NI Water's emergency planning arrangements is completed by an independent Certifier annually and an Audit Report submitted to the Department for Infrastructure's Water & Drainage Policy Division. NI Water continues to contribute to several multi-agency flooding and severe weather planning groups (along with the other main drainage agencies, DfI Roads and DfI River) including: • The Flood Strategy Steering Group (FSSG) (led by DfI Rivers); • The Flood Investigation Planning Group (FIPG) • The 'Regional Community Resilience Group' (RCRG); • Three, sub-regional, Emergency Preparedness Groups (EPGs) (North, South and Belfast); • The three EPG Flooding and Severe Weather Planning Groups and; • The EPG Communications' working group. The Company is represented on the principal strategic emergency preparedness body for the public sector in Northern Ireland, the 'Civil Contingencies Group (NI)', and continues to keep pace with wider developments through involvement with UK water	G

Environmental Protection and Improvement			
Policy	**EP Aim 1: Sustainable Environmental Policy and Regulation**	**Update on Delivery**	
EP 1A	**Sustainable environmental policy.** NI Water should continue to place greater emphasis on longer-term planning, to allow more time to develop and implement sustainable shared solutions and factor in climate change predictions on the future quality and quantity of raw water. This approach will help to deliver the objectives of the Northern Ireland Climate Change Adaption Programme (2019-2024). A primary platform for this is the Integrated Environmental Modelling framework, which assesses the impact of NI Water's assets on the	High resolution water quality data collection has been ongoing since March 2022 at 3 prioritised points in the Clay Lake drinking water catchment. Data collected via outpost portal and measured in-channel and via lab analysis will develop a picture of pesticide, colour, turbidity, nutrients, and ammonia load into the catchment for use in future modelling.	G
Policy	**EP Aim 2: Sustainably Manage the Catchment to Improve Water Quality**	**Update on Delivery**	
EP 2B	**Sustainable catchment management to reduce pollution.** NI Water should continue to improve compliance with discharge consents regulated by NIEA and through its Integrated Environmental Modelling Programme has initiated stakeholder partnerships addressing other sources of pollution and priority pollutants, with a view to catchment-based connecting of NI Water assets that are impact and evidence based.	Integrated Environmental Modelling (IEM) PC21 modelling programme is continuing and a number of catchments will be completed by 2025 in preparation for PC27 business planning. Dundrum IEM pilot study has been completed and is being used to target capital investment. Belfast (LWWP) IEM model is completed and being used to challenge and target capital investment, the LWWP Optimised Solution has been presented to NIEA. The model will be used for network optioneering which is ongoing to aid further targeted capital investment. Larne and Newcastle IEM studies have been presented to NIEA. Feedback from AFBI has been addressed and is awaiting formal sign off. NI Water proceed at risk to investigate optioneering to aid further targeted capital investment. UPM studies for Connswater and Carrickfergus have been presented to NIEA. Farset and Clowney UPM's will be presented in May 2024 to NIEA. Whilst awaiting formal sign off, NI Water will proceed at risk to investigate options to aid targeted capital investment for these catchments. Similarly further studies are progressing well through the four stages – Scoping/Catchment Planning & Survey, Model Build & Verification (Auditor Sign off at Build & Verification), Compliance Assessments & Risk Analysis and finally Optioneering/Interventions. These catchments require ongoing discussions with NIEA. A bid for funding through PEACEPLUS is being progressed for Erne Integrated Environmental Modelling (IEM) (call closes 9th May 2024). If funding is successful the Erne IEM will commence in November 2024 for a three year programme. The modelling will help derive catchment-based solutions targeting the key sources of pollution which impact water quality status across NI from all pollution sources including the agricultural sector. In conjunction with both internal and external stakeholders the IEM team are focused on cross departmental collaboration and	G

Policy	EP Aim 3: Effective and Efficient Wastewater Collection and Treatment	Update on Delivery	
EP 3A	**Educating consumers to prevent inappropriate items entering the sewerage network.** NI Water should continue its education programmes/campaigns and partnership working with environmental stakeholders to raise awareness of important issues. NI Water should also develop and implement new public awareness campaigns such as plastic pollution and seek to incorporate its Corporate Social Responsibility (CSR) activity when forging relationships with environmental stakeholders. In addition, NI Water should also carry out research to identify more sustainable alternatives to orthophosphate treatment and how best to reduce the amount of nutrients entering the wastewater system and alternatives to orthophosphate should be used, if they become available. Integrated Environmental Modelling may assist as part of the emerging approach.	The NI Water Educational team have during this period visited schools (Primary and Secondary) delivering talks/presentations on our key Bag it & Bin it messages such as flooding, pollution with a focus on the fats oils and grease message and what should & should not be put down the loo and sink. The team also attended and delivered community talks/events during this time. These visits were highlighted through a PR programme which issued information on the visit and relevant photographs to regional papers. We continue to communicate key Bag it and Bin it messages via an extensive PR and advertising campaign using TV/radio/print/social media. Sewer Blockage campaigns organised by the communications team were also reinforced with social media visuals of staff clearing blockages in order to generate greater customer awareness.	G
EP 3B	**Efficient, effective and compliant wastewater treatment.** NI Water should continue with its catchment-based approach to wastewater treatment and conveyance, utilising its various modelling tools to inform project appraisals to deliver optimum long-term benefits. This will be done in conjunction with local councils to identify where wastewater treatment works need to be upgraded, to minimise areas where economic growth has to be restricted. NI Water should continue to explore sustainable wastewater treatment solutions to reduce treatment costs and improve compliance. NI Water should also continue planning for a new sludge disposal strategy and work closely with NIEA to develop and implement a WwTW flow metering plan.	NI Water is developing its approach to catchment based wastewater services, flow metering and overflow monitoring in collaboration with NIEA and under the oversight of Wastewater Regulation Reform. Prioritisation of wastewater treatment works upgrades including compliance risk and development constraint is delivered via NI Water business planning and liaison with Council is provided. NI Water seeks to extend its options for sustainable wastewater treatment and has recently restructured its asset management section to include dedicated research and innovation resource. NI water has substantially developed a new sludge disposal strategy which will continue to evolve its implementation plan targeted at 2032 when current contractual practice ends. During this time NI Water will also explore business improvement opportunities in existing sludge management.	G
EP 3C	**Reduce unsatisfactory discharges from the public sewerage system.** NI Water should continue to implement a long-term investment programme to address unsatisfactory intermittent discharge (which should initially be identified through Integrated Environmental Management and drainage studies) and a programme of flow monitoring at combined sewer overflows and emergency overflows, to identify problematic overflows, on the basis of prioritising the environmental needs of the receiving water. NI Water's focus should also be on deploying sustainable treatment solutions, like SuDS, within Drainage Area Planning, wherever possible, to reduce pressures on sewerage systems before discharge into the	Monitoring programme for CSOs/EOs, which have been prioritised initially on designated bathing and shellfish waters, was taken forward within PC15. The second phase of this is being taken forward within the PC21 Business Plan. NI Water has installed 259 monitors in the first 3 years of PC21. Major work will be taken forward within PC21 to address the maintenance, reporting to NIEA and further upgrades to the telemetry system to accommodate these new assets, which will enable other parts of NI Water to use this information.	G
EP 3D	**Sustainable and compliant private sewers and treatment systems.** NI Water should continue to collaborate with NIEA to address environmental pressures related to private sewerage infrastructure, septic tanks and misconnections between the sewerage system and stormwater drains. NI Water should also continue to work with the Department on preliminary work to identify further policy needs in this area of	NI Water has been involved with the development of new policy in respect of private drainage infrastructure and misconnections and awaits further progress by the Department in these matters.	G
Policy	**EP Aim 4: Maintain sustainable levels of water in the environment**	**Update on Delivery**	
EP 4A	**Protect water resources through effective regulation and enforcement.** NI Water should work with NIEA to help it to review the effectiveness of drinking water abstraction processes and complete a review of NI Water abstraction licences.	As highlighted within DW 2C there is ongoing work with NIEA AIL team to review abstraction licences which is managed as BAU. This includes the delivery of the PC21 Abstraction flow monitoring project in PC21.	G

Water and Sewerage Services			
Policy	**WSS Aim 1: Provide efficient and affordable water and sewerage services**	**Update on Delivery**	
WSS 1B	**Manage future costs through innovative management of assets and infrastructure.** NI Water should continue to prioritise maintenance needs over enhancement; keep the Capital Appraisal Guidance under review to ensure the right sustainable solutions are delivered; improve systems and processes associated with gathering asset information to inform investment needs; continue to deliver the company's Research, Development and Innovation Strategy; and invest in new technology and systems that improve operational efficiency and performance, as well as reducing future operational or maintenance costs. Integrated Environmental Modelling should assist in this regard.	As per the PC21 submission NI Water will continue the current water and sewerage investment policy of prioritising maintenance needs over enhancement. However it should be noted the increased pressure from growth especially in relation to the Sewage network. The consequence of this is a direct limitation on the availability of sewerage services to new development which has been exacerbated by the reduction in funding from the PC21 Final Determination. In relation to improved systems and processes associated with gathering asset information to inform investment needs the there has been a recent restructure within Asset Management including the introduction of a new role 'Head of Asset Information' which has seen a re-focus on the importance of data which will drive improvements in PC21 and also help to inform PC27 Planning. In addition the RDI team has been expanded to two teams with one dedicated to Sewage and the other Water. This has seen improvements in a number of areas including the development of WTW Pilot Plants which are being used to establish the most robust, economical solutions for improvements at our WTWs.	G
WSS 1C	**Transform water and sewerage assets and infrastructure through sustainable solutions.** NI Water should continue to deliver its long-term strategy to transform its asset base to be less energy intensive, explore opportunities to invest in and generate renewable energy, such as hydro-power and solar panels, to reduce running costs, carefully plan and manage project risks by considering trialling projects and also identify, and secure, sufficient land early in a project phase, to give the option for larger footprint solutions with lower operating costs, if appropriate. Integrated Environmental Modelling should assist in this regard.	NI Water are implementing process reviews and submetering at major wastewater treatment assets to identify energy efficiencies in the configuration, control and operation of the wastewater process. In April 2024 a 4.1MW battery became live at Dunore site. Solar installation of a further 1MW was completed at Drumaroad, Limavady and Killyhevlin, with further sites being progressed. Electroylser liquid oxygen trials are complete. 1MW electroylser to be commissioned late 2024. 75MW wind: SOC complete with OBC in late draft form.	G
Policy	**WSS Aim 2: Provide high quality services to water and sewerage customers**	**Update on Delivery**	
WSS 2A	**Provide high levels of service to all water and sewerage customers.** NI Water should continue to:- (i) adopt a risk-based approach to sustain current levels of drinking water quality compliance; (ii) reduce the number of properties that experience unplanned supply interruptions; (iii) resolve issues quickly and provide good communication to those customers that will be affected by both planned and unplanned supply restrictions; (iv) maintain a register of properties at risk of internal and external flooding and invest to remove all properties from this register in accordance with agreed levels of funding; (v) educate customers with important messages; (vi) achieve and maintain the sustainable economic level of leakage; (vii) maintain a register of properties at risk of receiving low pressure and invest to remove them from the register in accordance with agreed levels of funding; (viii) contribute to the development and delivery of an integrated drainage and wastewater infrastructure plan; and (ix) contribute to the development and delivery of Integrated Environmental Modelling (EMI).	(i) AS per DW 1D NI Water manages water quality risks from the water distribution system as per best practice; (ii) NI Water have implemented key initiatives from our Interruption to Supply (ITS) strategy, such as post Interruption reviews to establish key learnings; utilised water tankers in response to interruption to supply events and engaged extensively with internal and external stakeholders. We have reduced lost minutes per property for our customers by over 60%; We have provided emergency restoration trailers for each Field Manager area to increase our response capability e.g. the use of specialist equipment such as flexible hoses, pumps, cross-connections and mobile PRVs. We will continue to develop our processes to further reduce lost minutes per property and will be engaging with colleagues in WPL, Sitaware Team and IOC to implement new procedures into our normal ways of working; PC21 capital investment will support further reductions in supply interruptions, reducing the number of lost minutes per property, and improving the level of service to our customers. We have been investing in a SMART Network capital programme for PC21, and our aim is to maintain a CALM network, increase visibility on all our water assets and using our new digital tools and data analytics through our SMART network project to monitor and control our field operations giving us a holistic view of the network; (iii) As per WSS 3A NI Water use a number of communication channels. As well as the traditional channels we have embraced the use of Social Media and Webchat. We have also increased the scope of our text messaging offerings to provide good communication to those customers that will be affected by both planned and unplanned supply restrictions; (iv) As per FRMD 4C NI Water is maintaining a register of properties at risk of internal (DG5) and external flooding. The register has developed in confidence in the intervening time with an established system of additions, investigation of root cause and removal by company action or other means now in place and informing the PC21 investment. Other corporate tools are being introduced to complement this work including sewer risk model and capacity mapping; (v) As per WSS 2C NI Water continues to educate the public on key campaign messages, through an extensive PR and advertising campaign; (vi) As per DW 3A Leakage targets and the leakage capital investment programme for PC21 have been agreed and are currently being implemented. (vii) As BAU NI Water maintain a DG2 register of properties at risk of receiving low pressure and invest to remove them from the register in accordance with agreed levels of PC21 funding; (viii) As per FRMD 4D continue to contribute to the development and delivery of an integrated drainage and wastewater infrastructure plan; and (ix) AS per FRMD 4D NI Water is progressing its programme of Integrated Environmental Modelling on a prioritised basis. NI Water continue, subject to funding from DfI, to develop Integrated Drainage Models for identified Living With Water	G

WSS 2B	**Maintain accurate information on water and sewerage assets, infrastructure and consumers' views**. NI Water should continue to collect accurate and reliable information on customer complaints, to provide actionable data and to take account of customers' views, which will inform future investment and to continue its research to inform investment plans and improve the accuracy, reliability security and consistency of information.	NI Water continue to collect consumer research through Voice of the Customer (VOC) surveys and an annual omnibus survey. Under our VOC programme we survey all operational customer contacts and discuss results monthly with Production Lines and Asset Performance. Our annual omnibus survey gains the opinions of the silent majority who have not contacted NI Water. Following the completion of the Metering & Billing project, all mop up work is now complete with the small balance of any cases transferring into the Metering & Billing team. There are also new processes embedded into the function to monitor data quality and to prevent data regression.	G

WSS 2C	**Effective customer education and public awareness.** (i) NI Water should continue to assess the outputs of previous education and public awareness campaigns to enhance future proposals and develop effective partnerships with other organisations, where there are shared benefits of the campaign. (ii) NI Water should adopt a lead role in consumer engagement to promote the value of water. This should include working with stakeholders to set out a programme of work to improve consumer education and engagement, including pilots or trials to test the effectiveness of different approaches.	The NI Water education team have to date (01 April 2023 - 31 March 2024) delivered 219 educational school visits on our key water efficiency messages to 19,789 primary and secondary pupils alongside 77 community visits. To complement these school talks, NI Water delivered 131 water butts to schools and community gardens. Also during this period, a competition for primary schools was organised called 'Save Water, Save Energy and look after our environment." This competition was designed to encourage school pupils to save water at the same time creating awareness of the benefits of saving water has on reduced energy cost. The online water audit which was developed within the GetWaterFit (GWF) platform is still offering customers the opportunity to discover their personal and household water consumption and associated carbon use. The GWF site has facilitated the completion of 1057 during this past year. This tailored approach offers customers water efficiency advice and efficiency items such as four minute shower timers, toothy timers, save a flush bags and leaky loo strips delivered free directly to customers. During this past year, NI Water's education site which includes water efficiency tips has had 3,136 views and have also seen 582 customers using our online water saving calculator. An extensive advertising campaign including radio, outdoor and social media was also carried out during spring and summer 2022, concentrating on water efficiency in the garden and home.	G
Policy	**WSS Aim 3: Provide high quality customer service and customer information**	**Update on Delivery**	
WSS 3A	**Consistent, accessible and timely customer information.** NI Water should continue to keep customers informed with up to date information using a range of communication channels. NI Water should also investigate the benefits of new web and social media channels as an additional means of communicating with customers and should endeavour to enhance its customer self-service facility and seek to develop it to meet customers' needs and expectations and to improve their experience.	NI Water have delivered a full range of digital channels to communicate with our customers. Our Social Media and WebChat Team are available to handle customer enquiries 7 days a week from 08:00 and 23:00. We have also increased the scope of our text messaging offerings. The External Knowledge Base is continuously updated allowing customers to self-serve on a number of issues. We have also expanded the services available from our Self Service Portal with improved digital features to help our customers and employees. The Portal provides an enhanced customer experience with added functionality of simple to use and environmentally friendly processes. You can now apply online: • If you need a New Connection for water or wastewater to our network • If you are a builder and need a Sewer Adoption (Article 161) • If you are a business that needs to discharge trade effluent or a customer with an existing trade effluent consent. Customers can also Pay a Bill and Request a Septic Tank De-sludge through our Self-Service Portal.	G
WSS 3B	**Improving and measuring the customer experience.** NI Water should continue to seek to reduce the number of complaints received year on year, increase the number of contacts resolved at first point of contact by defining, measuring and using root cause analysis to improve customer experience and continue to work with stakeholders through the Consumer Measures and Satisfaction Working Group to implement agreed customer experience measures and continue to develop these measures through PC21 and consider benchmarking itself against other service providers.	NI Water have introduced 3 new customer measures in PC21: 1. Unwanted Contacts 2. First Point of Contact Resolution 3. Net Promoter Score (NPS). The targets against these measures have been set by the UR in the Final Determination and are reviewed and reported against on a monthly basis. Using our customer insights and data, we have developed a Customer Measures Programme to improve customer journeys, reduce contacts and ensure contacts are resolved first time wherever possible. Through membership of UKCSI, NI Water is continuing to measure its performance and benchmark against other utilities and organisations. At the end of the 3rd year of PC21 NI Water achieved and exceeded the targets set by the UR in all 3 customer measures.	G
WSS 3C	**Helping vulnerable customers in the community.** NI Water should encourage equal access to its services by promoting and reviewing its Customer Care Register to support consumers in vulnerable and changing circumstances. The content and requirements of the Customer Care Register should be reviewed and updated in light of best practice emerging from the Regulator's Consumer Protection Programme and also from other utilities and service providers. NI Water should aim to achieve and sustain an appropriate number of consumer registrations on its Customer Care Register and the Regulator should set targets to increase customer awareness of NI Water's Customer Care Register and to measure the level of satisfaction of support provided to consumers in vulnerable circumstances.	NI Water continue to promote and review the customer care register. In 2023/24 our customer care register grew by 5%. We have a weekly Social Media Campaign, advertise in several relevant publications, promotion at trade stands and through the education bus. We are continuing to use paid social media adverts to further promote the register.	G
WSS 3D	**Efficient and effective processing of customers' bills.** NI Water should consider how it may best avail of new technologies to seek to improve the efficiency and accuracy of the 'meter to bill' process.	Customers who contact us by telephone are offered a Voice of the Customer survey, post contact. Where a negative score has been received we now proactively make an outbound call to the customer to better understand their reasoning for the negative scoring. We use the feedback provided to gain insight and drive improvement where required, with our colleagues across the business. Billing enquiries and written complaints are closely monitored through weekly reporting so trends / deviations are quickly identified and appropriate action taken if necessary. Following on from the Smart Metering Pilot with Queens University, in which we assessed the reliability of 3 different smart metering technologies, we have submitted a revised Smart Metering Strategy to the Utility Regulator as part of PC21 Mid Term Review submission.	G

Policy	WSS Aim 4: Provide resilient and secure water and sewerage services	Update on Delivery	
WSS 4A	**Improve the resilience of water and sewerage assets, infrastructure and systems.** NI Water should continue to assess the resilience of water and sewerage services, assets and systems to extreme weather events and other risks to inform future investment requirements. NI Water should review and continue the work already undertaken following the Regulator's Freeze Thaw and Industrial Action Reports. NI Water should also commence a programme of investment to improve and maintain the resilience of the wider water and sewerage asset base and system, prioritised as follows: (ii) water supply; (iii) prevention of internal flooding; (iv) prevention of pollution and odour management; and (v) manage surface water to protect people and property.	The PC21 plan includes a number of resilience programmes not limited to: - Resilience projects as included in the WR&SR plan which mitigate against Critical period events - New SR storage projects - Upsizing of strategic mains as informed by recent high demand events. - Surface Water projects - On-going programme of investment in PC21 for DG5 (Internal Flooding) & UIDs (Prevention of pollution)	B
WSS 4B	**Effective incident planning and preservation of services.** NI Water should maintain and review the effectiveness of emergency plans, systems and processes to preserve service delivery during a major incident, continue to educate and increase public awareness about the importance of insulating supply pipes to prevent bursts and leakage during freezing conditions and ensure water and sewerage assets and infrastructure are safe. It must comply with any guidance issued by the Department.	NI Water has a responsibility under Article 295 of the Water and Sewerage Services Order 2006 to meet the requirements of 'The Preservation of Services and Civil Emergency Measures (Relevant Undertaker) (Northern Ireland) Direction 2010' (PSCEMD). The Department requires NI Water to confirm that all requirements of the Direction are being met by annually submitting the following to DfI: - An Audit Report covering all aspects of emergency planning is required under PSCEMD. - An Independent Certifiers Statement from a Defra approved Certifier - An Assurance Statement signed by the CEO. Audits have been completed, Audit Report and Certifiers Statement provided. Assurance statement also provided. Meeting with DfI on 15th May 2024 to review audit findings. NI Water ran its annual winter campaign, which included a combination of advertising, PR and social media activity to highlight key winter readiness messages to the public and key stakeholders. NI Water uses a variety of channels, including traditional print and online channels to advise customers on prevention of frozen pipes and wastage caused by burst pipes. The Company continues to engage with a wide variety of stakeholders, to further promote the 'Be Prepared' message. The security hardening (Compliance with AN07) is being carried out in conjunction	B
Policy	WSS Aim 5: Utilise NI Water assets to provide wider benefits for the Environment and the Community	Update on Delivery	
WSS 5A	**Manage the NI Water estate to promote recreation, biodiversity and cultural heritage.** To help deliver this policy NI Water should:- (i) develop and implement a long-term estate management strategy; (ii) permit access to its land/assets to facilitate recreational activities, where it is safe to do so and financial resources permit; (iii) look for opportunities to enhance or restore biodiversity within its estate; (iv) continue to develop partnerships to deliver sustainable catchment initiatives; (v) continue to implement its Biodiversity Action Plan; (vi) adopt and implement the Protocol for the Care of the Government Historic Estate; and (viii) develop a long-term plan to bring its assets, covered by this, up to a suitable standard and maintain them going	• NI Water Recreation and Access implementation of policy and guidance now belongs to the Safety, Health and Environment Team. • Catchment Team continue to assist in R&A applications for public access to landholding • Catchment Team continue to work with Lands Team to develop a better digital understanding of NI Water landholding • Catchment Team continue to work with many external stakeholder groups (High Mournes Working Group, Forever Mournes Partnership, various Wildfire groups at strategic and practical level) to jointly develop catchment management measures • Catchment Team continue to work with many external stakeholder groups (High Mournes Working Group, Forever Mournes Partnership, various Wildfire groups at strategic and practical level) to jointly develop catchment management measures • Catchment Team continue to work NIW colleagues to develop corporate Biodiversity Strategy • Catchment Team continue to work developing new partnerships with eNGOs to deliver catchment initiatives.	G
WSS 5B	**Using surplus water and sewerage assets to provide recreational benefits for the community.** NI Water should progress the assessment of 'unused' reservoirs to determine the approach to disposal, develop a policy to ensure surplus water and sewerage assets with recreational value are transferred within the public sector, where appropriate, and ensure that future NI Water Estate Management Plans align to Executive policy on disposal of assets, including Community	Complete	B

Policy	Information and Security	Update on Delivery	
IS	(i) NI Water must comply with the requirements of the Networks and Information System (NIS) Directive on cyber security and the requirements of the General Data Protection Regulation (GDPR), which both came into force in May 2018; (ii) NI Water must have in place arrangements to protect its business critical assets and information. The fast pace of the risks from, and understanding of, cyber threats means that NI Water must constantly review and revise its practices against increased cyber security threats in line with advice from Defra, as the lead government department for the water sector, together with the Centre for the Protection of National Infrastructure (CPNI), the National Cyber Security Centre (NCSC) and Competent Authority while ensuring its infrastructure and assets are safe and secure; (iii) Security measures on assets must be upgraded and maintained to meet required standards as laid out in the Preservation of Services and Civil Emergency Measures Direction and associated guidance; and (iv) Agreed security and emergency standards for physical security, personnel security and cyber security must be followed. NI Water must ensure that all Critical National Infrastructure (CNI) sites continue to meet the latest security advice, and security issues identified at other sites, to bring them up to the required standard. During the PC21 period, it should continue with training staff to respond to major	NI Water will continue to have appropriate systems and procedures in place to monitor PSCEMD compliance. Arrangements in place include the annual PSCEMD and CNI site audits. Regular liaison with CPNI, NCSC and the competent authority will ensure policies and practices are reviewed and revised as required. NI Water continue to implement technical and people and process controls driven by the Cyber Resilience Programme in order to improve security as required by the Networks and Information Systems (NIS) Regulations. These new initiatives will enhance the already established cyber defences in protecting NI Water infrastructure and assets, including CNI sites, from cyber-attacks. The Cyber Resilience Programme is a multi-year, multi-million pound investment. NI Water is also cognisant of the requirements of GDPR.	G



Annual Information Return 2024

Section 3

Level of Service Methodologies

Northern Ireland Water

Level of Service Methodology

DG2 - Pressure of Mains Water

This document has been laid out in accordance with the guidance provided by the Utility Regulator in the Annual Information Return Reporting Requirements 2018: Section 7 – Levels of Service Methodology Appendix

DG2 – Pressure of mains water

1. **Methods and procedures**
2. **Extract from DG2 register**
   - provide an extract from DG2 register
3. **Sources of information**
4. **Scope and coverage**
5. **Assumptions and exclusions**
   - including any assumptions made for surrogate for the reference level.
6. **Other issues**
   - provide any further information on issues that have arisen in the report year that impact on your methodology for reporting in the Annual Information return.

The procedure for the investigation and recommendation for removal and addition of properties to the DG2 Register is based on the 'DG2 NIWL Procedures April 2010' document produced by the Leakage Data Management Unit. The objectives of the investigation are as follows:

i. Removal/Addition of DG2 entries on the register as a result of more robust data being available (Better Information).
ii. Removal/Addition of DG2 entries resulting from 'capital interventions' and 'operational improvements' (Company Action).
iii. Investigation of customer 'Low Pressure' complaints.

1. Methods and Procedures

Investigation of customer 'Low Pressure' complaints

Where low pressure complaints have been identified through the contact centre, the process of action is as follows:

- Contact Centre informs customer of known network planned or unplanned events in the area or determines if problem may be with customer supply only
- The first responder visits the property to determine if their pressure is a legitimate complaint. If the pressure at the property is assessed as being a potential DG2 issue, the complaint is passed to the Water Modelling Team for investigation

The Water Modelling Team undertakes a DG2 Investigation (see below) and additions and removals are processed accordingly. Any amendments to the DG2 Register are now captured on NIW's ESRI Portal allowing all departments within the business to access and view the current DG2 Register in relation to any customer contacts.

DG2 Investigations

The objective of a DG2 site investigation is to acquire the necessary data to allow a more detailed assessment to be carried out. The 2 key elements of this investigation are the logging of the water pressure and the gathering of accurate height data for both the logging point and DG2 property connection point (also known as the ferrule location). In keeping with 'DG2 NIWL Procedures April 2010' the following procedures are followed:

- Logging points are identified within the network, which do not exceed 250m in distance from the DG2 stopcock
- The logging points are within the same DMA/PMA as the DG2 property
- A unique logger ID is clearly assigned to the logging point

- An accurate elevation of each logging point is provided using GPS. The logger transducer level is measured as a dip from the cover level
- Boundary polygons around the pressure logger location are created using a 250m radius to allow the associated properties to be assigned to the relevant logger
- A pressure log and elevation may be taken in adjoining DMAs. This is to assist in identifying any potential for a BV change to improve the pressure at the DG2 property or to help validate the hydraulic model for any further solution engineering
- A new ferrule elevation is produced for each property using NIW's Supply Points and Connected Properties, both of which are GIS layers. The ferrule point elevation is used to determine the pressure at the ferrule point which is calculated using the Total Head at the pressure logger location

Due to the rural nature of some DMAs it is not possible in some exceptional cases, i.e. groups of DG2 entries within individual DMAs, to undertake logging within 250m of the DG2 property as set out in the NIW methodology. In these instances a field visit is undertaken to identify suitable locations that can be logged (e.g. stopcocks) within 250m of the DG2 property. If no suitable locations are identified an alternative approach is to pressure log a number of Fire Hydrants to enable an accurate pressure profile of the DMA to be established, supported by the hydraulic models.

Updating DG2 Register

Following field testing, all data is analysed and the findings are proposed as :

1. The addition/removal of DG2 properties due to 'better information'
2. The removal of DG2 properties resulting from 'capital interventions' or 'operational improvements'

If the data collected verifies that properties that are in receipt of a pressure >15m, then the DG2 properties are recommended for removal. Properties removed are supported by a DG2 analysis including logged data.

Those properties identified as being in receipt of a pressure <15m remain on the Register as supported by a DG2 analysis including logged data.

Additional properties within logging areas determined to be in receipt of pressure <15m are recommended for inclusion on the register as supported by a DG2 analysis including logged data.

DG2 Interventions

A DG2 Investigation Report (DIR) is undertaken for all interventions to verify that the DG2 problem is satisfactorily resolved before the DG2 property can be removed from the DG2 Register. A DIR is required for both 'capital interventions' and 'operational improvements'.

The outputs of the DIR include a table showing the following information for all properties included in the analysis:

- property address
- Total Head
- ferrule elevation and calculated pressure
- property elevation and calculated pressure

The outputs also include a detailed map showing the following information:

- Pointer Property data showing UPRN reference at each property (NIW receives biannual updates from Ordnance Survey Northern Ireland)

- Water pipes, fittings i.e. SVs, Fire Hydrants (FHs), terminating nodes etc
- DMAs and PMAs
- Background Vector maps
- Pressure logging points

The Water Modelling Team update the DG2 Register based on the outputs from the DIR reports.

2. Extracts from DG2 Register

Table 1 overleaf illustrates an extract from the latest DG2 Register, using dummy addresses. Note that the UPRN is a unique identifier for every property.

Table 1 – DG2 Extract

UPRN	Status_Date	Status	Building_Number	Primary_Thorfare	Town	Postcode	County	DMA	Pressure	Pressure Type	Reason for addition/removal	X_Coords	Y_Coords
185000001	07/09/2022	In Register	1	High Road	Belfast	BT00 1AB	Antrim	Central	14.61	Surrogate	Pressure below the minimum requisite	290001	437001
185000002	07/09/2022	In Register	2	High Road	Belfast	BT00 1AB	Antrim	Central	14.65	Surrogate	Pressure below the minimum requisite	290002	437002
185000003	07/09/2022	In Register	3	High Road	Belfast	BT00 1AB	Antrim	Central	14.69	Surrogate	Pressure below the minimum requisite	290003	437003

Note that actual addresses have been replaced with dummy values.

3. Sources of information

DG2 Investigation Reports (DIRs) are available for all ‘capital interventions’ and ‘operational improvements’ and these include the relevant data and reports to validate changes to the DG2 register. These reports are available for reference if required.

4. Scope and coverage

The DG2 Register was refreshed in 2020 and 2021 and the ongoing maintenance of the DG2 register will continue through the addition of properties due to ‘better information’ and the removal of properties due to ‘company action’ supported by DIR reports.

5. Assumptions and exclusions

NI Water does not currently have in place a permanent pressure monitoring network and is not able to identify exclusions arising from intermittent network incidents or infrastructure changes. A permanent pressure monitor is being installed in each Pressure Managed Area during PC21, and these may be of use in the future for identifying DG2 exclusions. Assumptions for AIR are identified in the methodologies described above. A surrogate pressure of 15m has been used to identify DG2 properties.

Northern Ireland Water

Levels of Service Methodology

DG3 Supply Interruptions

This document has been laid out as follows:

1.0 Objective & Aim
2.0 Reporting Requirements
3.0 Definitions
4.0 Procedure
5.0 Records
6.0 Reporting
7.0 Void Properties
8.0 'No Water/Low Pressure' Complaints

Appendix A – Roles and Responsibilities
Appendix B – Process Flow Diagram – Unplanned Interruptions
Appendix C – Process Flow Diagram – Planned Interruptions
Appendix D – Pro forma - Interruption Record Sheet
Appendix E – Pointer 2.1 Specification Extracts
Appendix F – CRC Call Scripts for 'No Water/Low Pressure' Complaints
Appendix G – DG3 Interruptions to Supply Register Extract

1.0 OBJECTIVE & AIM

To identify the number of properties affected by planned and unplanned supply interruptions lasting longer than 3 hours, 6 hours, 12 hours and 24 hours.

The aim of the register is to allow verification and audit of the reported information for DG3 and to enable the identification of the properties affected. It should contain information on the timing, duration and cause of each interruption and sufficient information to enable all properties affected by interruptions lasting more than three hours to be identified. Therefore, the register should include:

- properties affected (by name and location or number and street);
- date and time of interruption;
- duration of interruption and time supply restored;
- cause of interruption;
- notice given; and
- the name of person responsible for entering records in the system.

The DG3 Interruptions to Supply Register is compiled and held by C&O Services in Westland House.

2.0 REPORTING REQUIREMENTS

The information to be reported within Table 2 of the Annual Information Return (AIR) is as follows:

2.1 Line Descriptions

Line	Description
5	More than 3 hours unplanned
6	More than 6 hours unplanned
7	More than 12 hours unplanned
8	More than 24 hours unplanned
9	More than 3 hours planned and warned
10	More than 6 hours planned and warned
11	More than 12 hours planned and warned
12	More than 24 hours planned and warned
13	More than 3 hours unplanned caused by third parties
14	More than 6 hours unplanned caused by third parties
15	More than 12 hours unplanned caused by third parties
16	More than 24 hours unplanned caused by third parties
17	More than 6 hours unplanned due to overrun of planned and warned
18	More than 12 hours unplanned due to overrun of planned and warned
19	More than 24 hours unplanned due to overrun of planned and warned

Note: Interruptions should be reported under each relevant time band so that the category for interruptions exceeding:

- 3 hours also includes all interruptions lasting more than 6 hours;
- 6 hours also includes all interruptions lasting more than 12 hours; and
- 12 hours also includes all interruptions lasting more than 24 hours.

Each interruption should be classed as a single interruption event and should be recorded under only one of the four categories of: unplanned or unwarned, planned and warned, unplanned caused by third parties and, unplanned or unwarned due to overruns of planned and warned interruptions. If there are a significant number of overruns between 3 and 6 hours, the number should be reported in the commentary.

Further guidance, if required may be found in the Annual Information Return Reporting Requirements & Definitions Manual 2015, Issue 1.0 – March 2015.

3.0 DEFINITIONS

3.1 Interruption

Supply interruptions are defined as when properties are without a continuous supply of water, whether planned or unplanned, warned or unwarned. A property shall be considered as without a supply when water is lost from the first cold water tap – taken as being **operationally equivalent to ≤3m pressure at the main (adjusted for any difference in ground or property level)**. This can be inferred from local logging, network modelling or a customer contact indicating a loss of supply which was caused by the company operation and has not been demonstrably restored. Multiple-storey buildings shall be considered on a case-by-case and floor by floor basis, with properties on a particular floor being considered as receiving the same pressure.

Supplies may be affected by other factors, for example, lower pressure through the flushing of mains, or restrictions on use. These are covered under the DG2 and DG4 procedures.

3.2 Duration

Duration is defined as the length of time for which properties are without a continuous supply of water.

3.3 Start Time Determination

Start time is when water is lost from the first cold water tap at a property – taken as being **operationally equivalent to ≤3m pressure at the main (adjusted for any difference in ground or property level)**.

In the event of applicable telemetry data or logging being unavailable, the time should be determined from the earliest of:

- As advised by “no water” contact from customer (where not due to a customer side issue);
- Indications from flow or pressure monitoring to infer a change in supply; or
- Verified modelled data (calibrated, maintained, reflective of the network at the time of the incident and validated with contemporaneous flow and/or pressure data).

The company shall gain confirmation by consulting complainants (if any) and/or customers at high points on the system.

3.4 End Time Determination

End time is when water is restored to the first cold water tap at a property – taken as being **operational equivalent to >3m head of pressure at the main**.

In the event of pressure logging being unavailable, the time should be determined from the latest of:

- As advised by notification from customer;
- Indications from flow or pressure monitoring to indicate return to normal supply conditions; or
- Verified modelled data (calibrated, maintained, reflective of the network at the time of the incident and validated with contemporaneous flow and/or pressure data).

It is the responsibility of the company to demonstrate that supply conditions have been restored and available to all previously affected customers from the time determined from the above. In the absence of physical evidence, the company shall gain confirmation by consulting complainants (if any) and/or customers at high points on the system.

The company shall apply the precautionary principle, using the start and finish times and the properties affected that will give the highest supply interruption value in the event of uncorroborated or conflicting data.

Note: The time on the customer's warning card is used to determine whether or not a planned and warned interruption overruns. It is not used to determine the End Time.

3.5 Event

Event is the term used by NI Water to describe its involvement in an abnormal occurrence in its services to customers.

3.6 Planned & Warned Interruption

This is where notice of an interruption (> 3 Hours) is provided to properties affected at least 48 hours in advance of the beginning of the interruption.

- If a planned and warned interruption commences before the Planned Start Time, the interruption is re-categorised as an unplanned interruption.
- If a planned and warned interruption commences after the Planned Start Time, the time between the planned start and actual start is not included in the duration.
- If a planned and warned interruption finishes before the Planned End Time, the time between the actual end and planned end is not included in the duration.
- If a planned and warned interruption finishes after the Planned End Time, the interruption is re-categorised as an unplanned interruption (overrun of a planned interruption).

3.7 Unplanned/Unwarned Interruption

This is when an unplanned or a planned and unwarned interruption to supply occurs. Properties receiving less than 48 hours' notice of a planned interruption (> 3hrs) are to be counted as 'unplanned' and reported under this category. Any planned interruption that is started before the planned date and time contained in the warning notice, whether this occurs within a 48 hour warning period or not, is also to be re-categorised as 'unplanned'.

3.8 Overruns

When a planned and warned interruption continues beyond the end of the warned time, for whatever reason and whether or not a customer has been advised during the shutdown that an overrun is going to occur, the interruption is described as an overrun and is reported separately.

3.9 Third party interruption

A third party is defined as anyone who does not act for, or on behalf of NI Water. This category is intended to cover damage to NI Water's mains or other equipment that directly or indirectly results in an unplanned loss of supply to enable the damage to be repaired. Where a third party interruption is not caused by a third party, but repair may be delayed by a third party, for example when a gas main runs close to a water main and needs to be isolated, the whole of the duration on the interruption must be reported as an unplanned interruption. Companies can describe this event in their commentary.

3.10 Electrical Failures

Interruptions to supply caused by electricity supply failures must be reported as unplanned, unwarned interruptions, and identified in the records as caused by electrical failure to enable the details to be included in the NIAUR Return commentary.

3.11 Properties affected by more than one interruption during report year

Properties, which are affected by more than one interruption during the report year, should be reported separately for each interruption. This means, for example, that a property affected by three supply interruptions would be reported three times, once for each interruption. Where properties are affected by repeat interruptions on the same day, these should only be counted separately where there is a minimum of one hour between the interruptions for the supply to be available (e.g. to refill storage tanks). When shorter gaps occur, the duration is counted from the start of the first interruption until the last restoration of supply.

4.0 PROCEDURE

It should be established before any work is carried out on site, which function is responsible for the collection of information for the interruption record. In general, whichever function operates the valves to cut off supply at the site of an interruption is also responsible for the collection and ownership of the information.

4.1 Planned Interruptions (lasting > 3 Hours)

Planned interruptions to supply arise as a result of work being carried out by different teams within the Customer & Operations Directorate or by functions within other NI Water Directorates. These have been identified as follows:

- Planned interruptions carried out by Networks Water (Distribution and Leakage),
- Planned interruptions carried out by Capital Asset Delivery and,
- Planned interruptions carried out by Developer Services, Metering & Billing.

Regardless of the source of the interruption to supply, all planned interruptions must follow the procedures for giving the appropriate warnings. Each team/function is responsible for collecting and recording all appropriate information to be included in the DG3 Interruptions to Supply Register.

All affected properties must be notified by letter, or card drop, at least 48 hours before the shutdown, notifying them of the planned times and dates of shutdown and the restoration of supply. A minimum of 48 hours warning must be given for planned interruptions greater than 3 hours. The start of the warning occurs when the last card has been delivered or the last letter sent to the properties affected.

If for example, there is estimated to be 500 properties to be warned, the card drop operation starts at 9.00am on 2nd July and finishes at say 2.00pm, then the warning period starts at 2.00pm for 48 hours and work should not start on site on the planned interruption until 2.00pm on the 4th July.

A copy of the letter of notification or the information contained on the card used in the card drop should be sent to the following for information – Customer Relations Centre Front Desk, Work Planning Unit, Telemetry Control Centre, Functional Manager and relevant Northern Ireland Fire and Rescue Service. For contact details see Appendix A.

The number of properties affected by a planned interruption should be determined by the most accurate means available at the time of:

a) planning activity;
b) the interruption; or
c) any subsequent more detailed investigation.

At the time of the initial assessment this is likely to be by property count or an estimate based on local knowledge. For recommendation for estimating numbers of properties, see paragraph 5.3.

4.2 Planned interruptions carried out by Networks Water

Field staff on site are to record all information on a paper pro forma, known as an Interruption Record Sheet (see Appendix D). The pro forma contains the raw data associated with the interruption and is retained for audit purposes. The information is also communicated to the Work Control Centre (during normal working hours) and the Telemetry Control Centre (outside normal working hours) where staff will already have opened an event on iNform - the Company's Incident Management System (IMS) and will use the information to update/populate the remaining fields associated with the event.

During the course of an interruption, field staff will continue to provide the WCC or TCC with regular updates on progress and the IMS event details will be updated accordingly. When the interruption has ended, the IMS event record will be closed with a status of 'Closed – DG3 Record Required' and the Field Manager responsible will review the details with the Field Technician and amend the information as necessary.

The following fields of information are required to enable an IMS Planned Interruption Event to be created:

- Cause
- Warning details
- Planned start / finish
- Public narrative
- Incident location / areas affected

The following IMS fields should be updated during the course of a planned interruption event:

- Estimated restoration time / date
- Actual restoration time / date
- Water sampler contacted
- Public narrative

4.3 Planned interruptions carried out by Capital Asset Delivery or Developer Services, Metering & Billing

Capital Asset Delivery and Developer Services, Metering & Billing use a combination of a paper pro forma (Appendix D) and an MS Excel spreadsheet template, known as a Contractor Return Sheet, to record the details of interruptions as the contractors that carry out the work for these departments do not have access to IMS. Each month, an appropriate member of Capital Asset Delivery or Developer Services, Metering & Billing will sign off the information to be recorded retrospectively on IMS. Details of the spreadsheet template can currently be obtained from C&O Services in Westland House.

IMS planned interruption events relating to Capital Asset Delivery should be created by Capital Asset Delivery staff in advance of planned interruptions taking place on site. The Warning Issued Date and Time, Planned Start Date and Time, Planned Restoration Date and Time, cause of interruption and properties affected are the only details that can be input in advance. This information will be used by staff in the CRC when providing updates to customers.

During the interruption, the contractor will record the details of the interruption, including the Actual Start Date and Time and Actual Restoration Date and Time, on an Interruption Record Sheet. The contractor will also summarise the information from the Interruption Record Sheets for each month in a Contractor Return Sheet. Contractor Return Sheets will be forwarded to Capital Asset Delivery staff who will use the details to update the IMS interruption event records. This task will be completed both monthly and retrospectively. A copy of the Contractor Return Sheets is also to be forwarded to C&O Services for incorporation in the monthly DG3 Composite Report.

4.4 Procedure for Ensuring that Customers Receive Adequate Notification in the Event of Planned and Warned Interruptions

Reference: The Water Mains Rehabilitation Framework Northern Ireland Guidance Note (GN07) - DG3 Interruptions Reporting for IMS October 2016

For a planned interruption to be classed as planned and warned, customers must be provided with at least 48 hours' notice in advance of the interruption to the water supply at their property. Therefore, if it is the Company's intention to interrupt the supply at 12 Main Street from 8am to 6pm on 8th June, the warning must be communicated no later than 8am on 6th June.

Contractors have a contractual requirement to provide customers with 48 hours' notice in advance of supply interruptions.

Guidance Note *GN7* provides detailed and comprehensive guidance on the required action to be taken by contractors in relation to the notification of customers of the planned intent to interrupt the water supply. The guidance note defines the roles, responsibilities, notification periods and procedures for planned and unplanned interruptions during and after normal working hours.

Contractors should ensure familiarity and compliance with the guidance note at all times.

Formal on-site verification process to ensure customers are receiving the minimum 48 hour notification

Each month, NI Water's WMRF Clerk of Works (CoW) will attend two notification card drops for each contractor, to witness the start of the notification period, i.e. when the last card/letter has been delivered.

The CoW will provide formal confirmation to NI Water's Asset Delivery DG3 Compliance Team of when the last notification was delivered prior to the start of the planned interruption.

The monthly audits carried out by the CoW will be collated into a report to be reviewed at quarterly WMRF Project Board meetings.

Any instances of failure to provide the minimum 48 hours' written notification will result in the following:

- the interruption will be designated and reported as 'unplanned'
- the contractor concerned will receive a formal written warning and a non-conformance report (NCR) will be issued which could impact on reduced work allocation going forward
- NI Water's Executive Committee will be advised of any failures.

4.5 Unplanned Interruptions carried out by Networks Water

The event trigger for an IMS unplanned interruption event to be created is 4 'no water' complaints in a single DMA within an hour, or when the WCC/TCC is informed by the Field Technician that the water is being turned off.

As defined above, unpredicted events such as mains bursts, or interruptions that are planned but where customers are not warned at least 48 hours in advance, are classified as unplanned interruptions.

Unplanned interruptions are mainly the responsibility of Networks Water and information should be recorded using IMS.

Following receipt of a 'No water/Burst main' complaint the Field Manager will investigate as soon as possible and provide 'status updates' to the Work Control Centre on the progress of remedial works. The Field Technicians on site will record all information on a paper pro forma (Appendix D) and the pro forma will be retained for audit purposes. The Field Technicians will also provide regular timely updates on the progress of such events to the Work Controllers, Duty Managers and Telemetry Operators. Details including the cause of interruption, the time the repair is commenced, the estimated restoration time and the time the repair is complete are to be recorded on IMS.

Area Managers may be made aware of interruptions other than as a result of customer calls. In such cases, the Field Managers should ensure that relevant details are passed to the WCC for processing.

Details input to IMS are to include the Interruption Start Time, as noted by the first affected customer, the time at which the supply was restored and whether or not a third party or an electrical supply failure was the cause.

The following fields of information are required to enable an IMS Unplanned Interruption Event to be created:

- Time of first call
- Estimated restoration time
- Public narrative
- Incident location / areas affected

The following IMS fields should be updated during the course of an unplanned interruption event:

- Public narrative
- Cause
- Mains type / material
- Repair commenced date / time
- Supply restored date / time
- All properties restored date / time
- Water sampler

Note: A record should be created for every burst main, even if the properties affected are zero as there is a requirement to record all bursts on DG3.

4.6 Unplanned interruptions carried out by Capital Asset Delivery or Developer Services, Metering & Billing

IMS unplanned interruption events relating to Capital Asset Delivery are created by WCC and TCC staff in the same way that other IMS unplanned interruption events are created. Sometimes, the contractor may be unaware that an unplanned interruption has occurred, for example, if the contractor forgets to open a valve. The IMS process ensures that such interruptions are captured by the Company. In cases where the contractor is aware of having caused an unplanned interruption, for example, a burst main, the contractor will provide details of the interruption in the Contractor Return Sheet.

4.7 Number of properties affected

An estimation using practical evaluation and contouring from NIW's GIS system will be used to give a more accurate estimate of drawdown of the system.

5.0 RECORDS

Overall responsibility for DG3 records lies with the Head of Water. However, the DG3 Register is compiled and held by C&O Services in Westland House.

Interruption records relating to Networks Water (Distribution and Leakage) are recorded on IMS. Interruption records relating to Capital Asset Delivery and Developer Services, Metering & Billing are also recorded on IMS but on a retrospective basis. As Capital Asset Delivery and DMB contractors do not have access to IMS, their details are initially recorded on an MS Excel spreadsheet template before being entered onto IMS by NI Water staff.

5.1 Interruption Recording using IMS

When an event is created on IMS, the event can be one of the following:

- Unplanned Interruption
- Planned Interruption
- Flooding
- Water Quality

IMS can be used to specify whether or not:

- an Unplanned Interruption event was caused by a third party
- a warning was issued for a Planned Interruption event
- the amount of warning was sufficient for a Planned Interruption event
- a Planned interruption event occurred during the planned time

In this way, IMS can be used to report on all four regulatory categories of interruption.

When all information has been entered onto IMS, the information is then extracted in the form of a report. A number of reports are available for selection including:

- RPT1151 – Historical DG3 Event Records Report,
- RPT1152 – Historical DG3 Property Records Report,
- RPT1155 – 'Live' DG3 Unplanned Interruption Records Report,
- RPT1156 – 'Live' DG3 Planned Interruption Records Report,
- RPT1183 – 'Live' DG3 Property Records Report,
- RPT1184 – 'Live' DG3 Event Records Report.

When an IMS interruption event record has been created and closed with the status of 'Closed – DG3 Record Required', it is then the responsibility of the Field Manager to review the record and to amend the details according to the information provided by the Field Technician and information obtained through the GIS polygon process. Once the Field Manager is satisfied that all amendments have been made, the record should be approved and passed to the Area Manager for review and approval and to the DG3 Customer Services Coordinator for review and approval. If the AM or DG3 CS Coordinator find any issues with the information, they have the option to reject the record.

Most of the information required will be able to be input directly onto the input screen and will probably not be altered. Some information e.g. house numbers and addresses will be initially estimated by the Field Technicians or the Field Manager. However more investigative work may be required to give an accurate number of houses. The interruption record can then be updated when this information becomes available. For procedures for obtaining house numbers and address see paragraph 5.3 below.

Area Managers and Field Managers are to ensure that all relevant details are recorded and input to the system as soon as possible, and any paper records or notification cards are retained for general audit purposes.
On-call staff are to gather all relevant information and report to the Networks Water Area Manager as soon as possible the next working day.

The following Audit Process is aimed at ensuring the timely completion of audit tasks and approval ahead of monthly reporting on DG3 to the Board.

DG3 / IMS Reporting / Audit Process

Action No.	Action	Date
IMS Report from the Field		
1	• WC opens a New Event in IMS when an event trigger is reached. • The IMS Event is updated by WC throughout the incident with information from Field Staff. • WC saves the event when the incident is closed in the field.	
2	• DG3 CS Coordinator sends the ***MTD Rapid No Water Complaints Report*** to the FM's on a Monday, Wednesday and Friday morning.	Every Monday, Wednesday and Friday morning.
3	• The ***MTD Rapid No Water Complaints Report*** lists all NIW No Water calls. • FM filters the report for his own area, sorts by date and DMA which then group calls. • The FM opens the IMS Report ***RPT1184 – Historical Report – DG3 Interruption Records.*** o Enter Start Date. o Remove tick from Null box. o Enter End Date o View Report. o Click Export Drop Down Menu o Export to Excel o Filter Report to own area. • The call groups are then checked against an ***appropriate DG3 Interruption Record*** and the Technicians, ***Interruption to Supply – Site Record***. • From the three reports the FM then adjusts, if required, and **Save** the IMS Report. • At this stage **don't Approve** to allow the event to remain with the FM until all audit checks are completed at the end of the month.	Ongoing throughout the week/month.
4	• The above process will be completed for each week of the month. • L4 will also check the IMS Event Report throughout the Month and raise queries as appropriate.	Ongoing throughout the week/month.
DG3 Reporting and Audit Process		
5	• DG3 CS Coordinator produces Draft DG3 KIP Report, ***DG3 Reporting – 081014.*** • Two tabs; o ***Unplanned >6hr Summary*** o ***AIR & KPI Reporting***	By 1st working day of the new month.

DG3 Reporting and Audit Process		
6	• Level 4 uses the above monthly ***Unplanned >6hrs Summary*** Report to identify a number of L4 Monthly Audit checks. • L4 meets with the Field Managers to arrange the Audit Checks.	1st working day + 1 day. 1st working day + 1 day
7	• Level 5 checks the monthly ***Unplanned >6hr Summary*** report for his area against IMS Events and adjusts as necessary.	1st working day + 1 day
8	• FM reports back to Level 4. • L4 approves/saves the audited Events in the IMS system.	1st working day + 5 days
Monthly Sign Off		
9	• L4 emails DG3 CS Coordinator that Monthly Audit checks have been completed.	1st working day + 7 days
10	• DG3 CS Coordinator produces ***DG3/Rapid Comparison Checks*** report. • This Zip file contains a number of reports; o Individual FM folders with DG3 ID Event files. o Comparison Checks Summary. ▪ Red/Amber/Green against start/finish/No. props o Properties not recorded on IMS. ▪ Used to check No. of prop queries.	1st working day + 8 days
11	• L4 discusses above report with FM's. • L4/FM's report back to DG3 CS Coordinator.	1st working day + 10 days

5.2 MS Excel Spreadsheet Template – Contractor Return Sheet

Planned interruptions undertaken by Capital Asset Delivery and Developer Services, Metering & Billing will most likely be carried out by a number of contractors. The Contractor's Representative should gather all appropriate information on a paper pro forma (Appendix D) and then transfer this information to the Contractor Return Sheet. The Contractor Return Sheets should be collated at the end of each week/month and signed off by an appropriate member of Capital Asset Delivery or Developer Services, Metering & Billing staff and sent to Services for inclusion into the DG3 Register. All pro forma should be stored by Capital Asset Delivery and Developer Services, Metering & Billing for Audit purposes. Details of the Contractor Return Sheet can currently be obtained from C&O Services in Westland House.

5.3 Property numbers and Addresses

It is a requirement of NIAUR that the numbers of properties and address details of properties affected by interruptions to supply exceeding 3 hours are recorded. The numbers of properties and address details should be determined by the most accurate means available at the time. This is likely to be by one of two methods.

a. Visual Property Counts

In the case of small-scale interruptions, a Field Technician may have sufficient knowledge to determine the number of properties affected by carrying out a visual property count. Details should initially be recorded by hand on a paper pro forma including location, type and cause of interruption, and 'valve off'/'valve on' times. Each week, the Field Manager should review the Interruption Record Sheets with his Field Technicians and the details provided should be used to update the IMS records.

b. GIS Polygons

In the case of large-scale interruptions, the number of properties affected by an interruption should be determined using a GIS polygon. A Map Redline Request should be submitted using the IMS DG3 Interruption Details page. Then in CARtomap (the Company's Corporate Asset Register/GIS intranet facility), a redline polygon should be drawn around the affected area and assigned to the IMS request which should appear in the dropdown list associated with the DG3 Areas Layer of the Water workspace (see Editing Menu). Back in IMS, the Map Redline Request should be updated to retrieve the address details of the properties within the polygon and hence, the number of properties affected.

Field Managers should base the redline polygons on the details provided by the Field Technicians. In the case of interruptions where rezoning is carried out, it may be necessary to obtain address details from within more than one polygon.

5.4 Records of Interruptions

In general, all interruptions to supply should be recorded. However, there are large numbers of very short interruptions to supply associated with Leakage-related activities and Developer Services, Metering & Billing. These interruptions are routine, inconsequential and last no longer than 30 minutes. Information about these interruptions is held by managers in Networks Water (Leakage) and Developer Services, Metering & Billing and is therefore not required for the DG3 Interruptions to Supply Register. Discretion should however be used in all cases. If difficulties arise or there happens to be an exception to the type of routine interruption referred to above that gives rise to an interruption that lasts for more than 1 hour then, this interruption should be recorded. Guidance on which interruptions should be recorded is to be given by Networks Water (Leakage) and Developer Services, Metering & Billing managers.

In general: Routine interruptions lasting less than 1 hour need not be recorded as part of the DG3 Interruptions to Supply Register except at the discretion of the Field Technician or Field Manager.

All interruption records entered onto IMS are to be approved by at least the Area Manager responsible by the 1st working day + 5 days, as per the Audit Process described earlier in the document. Interruption records belonging to Capital Asset Delivery and Developer Services, Metering & Billing should be sent to C&O Services by the same date.

- When a Field Manager approves an IMS DG3 record, an e-mail reminder is automatically forwarded to the Area Manager.
- When an Area Manager approves an IMS DG3 record, an e-mail reminder is automatically forwarded to the DG3 Customer Services Coordinator.

Automatic e-mail reminders to approve the DG3 records are sent to the DG3 Customer Services Coordinator on a monthly basis.

5.5 Historical records

All associated documentation is to be kept for seven years.

5.6 Audit Trail

The maintenance of audit trails is very important. During AIR audits the Reporter would more than likely want to investigate several interruptions and the associated documentation. It is therefore imperative that all records corresponding to individual interruption records, including pro forma, are stored locally for audit purposes.

5.7 Amendments to Information

It is recognised that the details entered at the time an IMS event record is created are estimates and that it may be necessary to update the details following the GIS polygon process. The IMS Internal Narrative should be used to record the details of any amendments, over and above those that occur as a result of the normal process of updating records. All amendments to the base data contained in IMS or information changed during the course of the development of the DG3 Composite Report File, must be supported by a detailed explanation.

6.0 REPORTING

6.1 NI Water Reports

IMS can be updated on a continuous basis, as and when interruption events occur, throughout the life of an ‘Active’ event, and after an event has been closed on the system and a corresponding DG3 interruption record has been registered. Monthly reports can be generated following the completion of quality assurance checks carried out by Area Managers. These reports are used by the C&O Services function to compile a DG3 Register for each month and corresponding KPIs.

The following reports are generated by C&O Services for Management Information:

- Monthly DG3 Composite Report including monthly DG3 Register
- Monthly DG3 KPI Report
- Annual DG3 AIR Table 2 Lines 5 to 19 Report (as defined by the Annual Information Return Reporting Requirements and Definitions Manual).

6.2 Development of the DG3 Register and KPI Report

As described above, interruption data for each month is extracted from the various data sources (IMS and Contractor Return Sheets) used by the various work streams (Networks Water (Distribution and Leakage), Capital Asset Delivery and Developer Services, Metering & Billing) and copied to a DG3 Composite Report File held by C&O Services at Westland.

Copies of the original records are retained in their unaltered state. The records are then sorted according to the four regulatory categories of interruption:

- Unplanned Interruptions
- Planned and Warned Interruptions
- Unplanned Interruptions Caused by Third Parties
- Unplanned Interruptions due to Overruns of Planned and warned Interruptions

and further sorted according to the four regulatory time bands:

- More than 3 hours
- More than 6 hours
- More than 12hours
- More than 24 hours

The interruption records are subject to a series of audit checks to ensure that the details have been captured in accordance to the regulatory guidance. For further information on the development of the DG3 Register, please refer to the DG3 LoS Methodology.

6.3 Regulatory Report

The Finance & Regulation Directorate will report to Northern Ireland Authority for the Utility Regulation (NIAUR) on an annual basis.

7.0 VOID PROPERTIES

Within NI Water, Asset Information Development (AID) is primarily responsible for ensuring the databases, systems, standards and processes are in place to support the Corporate Asset Register (GIS/Ellipse). According to the definition, a void property is a type of connected property. The GIS picks up the following twelve property types, including void properties:

- Approved Built
- Approved Derelict
- Approved Under Construction
- Candidate Built
- Candidate None
- Candidate Under Construction
- Historical Built
- Historical Derelict
- Historical None
- Historical Under Construction
- Provisional Built
- Provisional Under Construction

Unless AID is specifically asked to exclude void properties when running queries, their GIS address lists will include any of the property types listed above.

There is a delay in updating the GIS with property status information.

Relevant extracts from the Pointer 2.1 Specification can be found in Appendix E at the back of this document (Pages 22 to 26 of 31).

8.0 'NO WATER/LOW PRESSURE' COMPLAINTS

Within NI Water, CRC call agents adopt a specific line of questioning with the customer to establish the cause of complaint including complaints relating to low pressure and no water.

A copy of the latest CRC call scripts for handling low pressure/no water complaints can be found in Appendix F at the back of this document (Pages 27 & 28 of 31). Provided the customer provides an accurate response to the questions asked by the call agent, the risk of wrong classification should be negated.

Appendix A – DG3 Interruption to Supply - Roles & Responsibilities

Customer Relations Centre (Normal Hours)

- Log 'no water'/ 'burst main' complaints into RapidXtra system;
- Use IMS system to provide up to date information to customers;
- Use 'Operational Announcements' functionality to share information;
- Adhere to agreed communication routes.

Bretland Work Control Centre (Normal Hours)

- Create IMS interruption event records and close with either a status of 'Closed – DG3 Record Required' or 'Closed – DG3 Record Not Required'.

Work Planning Unit

- Normal hours – create a Work Order and inform area supervisor immediately;
- Update the Ellipse System following 'status calls';
- Ensure Work Orders are closed out.

Customer & Operations Directorate - Networks Water

- The Area Managers and Field Managers are responsible for the procurement of information for DG3 within Networks Water.

Developer Services, Metering & Billing

- Developer Services, Metering & Billing is responsible for reactive meter maintenance, proactive meter exchange and the installation of new meters. An interruption to supply to the property arises during the course of the installation.

Field Technicians

- Proactively provide regular timely updates on the progress of events (bursts, repairs etc.) to Work Control / Duty Managers / Telemetry operators:
  - Nature of the problem and any relevant details
  - Time repair commenced
  - Estimated restoration time
  - Repair complete;
- Provide any additional information to Field Managers to allow completion of the corresponding DG3 record e.g.
  - Polygon details
  - Rezoned properties.

Field Managers

- Inform Customer Services and Work Planners of planned interruptions providing details of area & number of properties affected and proposed duration of interruption;
- Assess extent of unplanned interruptions and organise remedial work;
- Inform Work Planners on completion of remedial work;
- Provide supporting information on number of properties affected and reasons for interruption.
- Ensure Field staff are adhering to agreed processes and communication routes;
- Review records created by Work Controllers:
  - Ensure start / finish times are accurate
  - Ensure property data is accurate & required fields complete;
- Review corresponding DG3 record for each event;
- Draw polygons, where required, and automatically link to IMS record;

Field Managers (continued)

- Sign off DG3 records for submission for approval by Area Manager;
- Update Major Incident records.

Area Managers

- Ensure Field Managers are adhering to the agreed process / timescales;
- Check / query records signed off by Field Managers;
- Sign off DG3 records for approval by DG3 Customer Services Coordinator.

Telemetry Control Centres (Out of Hours)

- Log 'no water'/'burst main' complaints into Work Planning (Ellipse) system;
- Create IMS interruption event records;
- Inform on call supervisor immediately.

Work Controllers / Telemetry Operators

- Create and maintain event records based on the information provided by Field Staff:
  - Interruptions to Supply (planned and unplanned)
  - Water Quality;
- Create and maintain event records for planned work;
- Close records at completion of events and apply appropriate DG3 status (required or not required);
- Monitor open incidents for records requiring action;
- Provide advice and guidance, if required, to Bronze users during Major Incidents.

DG3 Customer Services Coordinator

- Processes interruption information from Networks Water (Distribution and Leakage), Capital Asset Delivery and Developer Services, Metering & Billing;
- Checks, audits and queries records signed off by Field Managers;
- Compiles DG3 Interruptions to Supply Register based on data derived from IMS;
- Signs off IMS records and DG3 Interruptions to Supply Register for approval by Head of Water;
- Produces KPI reports for Management and AIR for Regulator.

Capital Asset Delivery

- Capital Asset Delivery is responsible for the rehabilitation of existing water mains and the installation of new water mains. Interruptions to supply arise as a result of connecting properties to the refurbished and new water mains.

Capital Asset Delivery Planned Works Coordinator

- Ensure that planned works affected > x properties / lasting > x time are entered on the system in advance;
- Ensure that planned works are updated if necessary (e.g. overruns, early starts);
- Close records at completion of events and apply appropriate DG3 status (required or not required);
- Ensure that planned works affecting < x properties / lasting < x time are entered on the system retrospectively and submitted for approval.

Networks - On-call Staff

- Assess extent of unplanned interruptions, update Duty Officer (if required) and organise remedial work
- Inform Networks Water Area Manager of actions taken and interruption details

Head of Water

- Approves the DG3 reporting elements of the Annual Information Return.

Regulation & Business Performance Section

- Submit Annual Information Return to NIAUR.

Emergency Planning Team

- Declare Major Incidents on the IMS system;
- Interrogate reports to provide status updates as incidents develop;
- Complete Upwards Reports based on data provided in IMS;
- Close Major Incidents on IMS system.

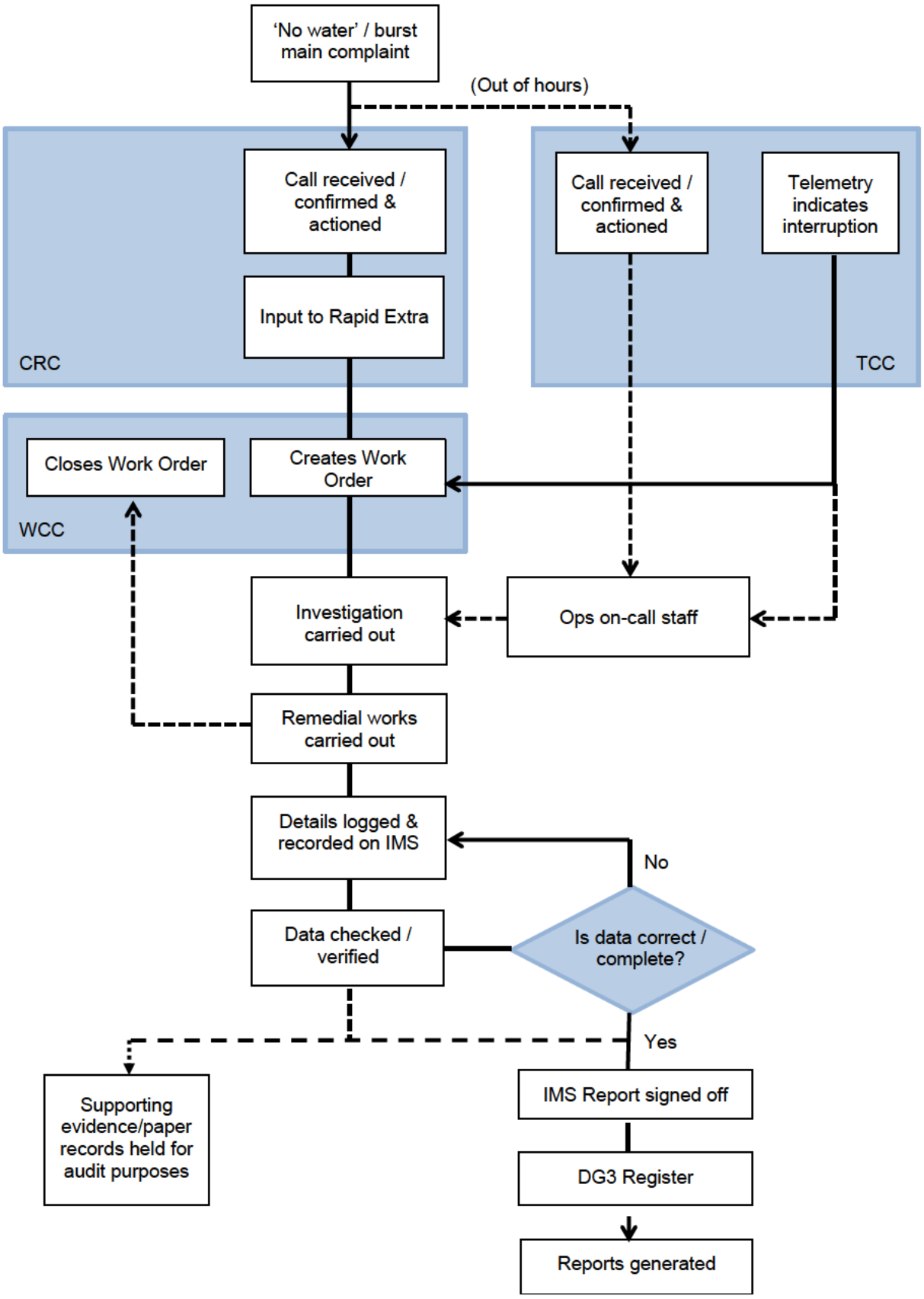
Bronze Team – MIP Only

- Create and maintain event records based on the information provided by Field Staff:
  - Interruptions to Supply (planned and unplanned)
  - Water Quality
  - Flooding;
- Close records at completion of events and apply appropriate DG3 status (required or not required);
- Monitor open incidents for records requiring action;
- Interrogate reports to provide status updates as incidents develop within their Bronze area.

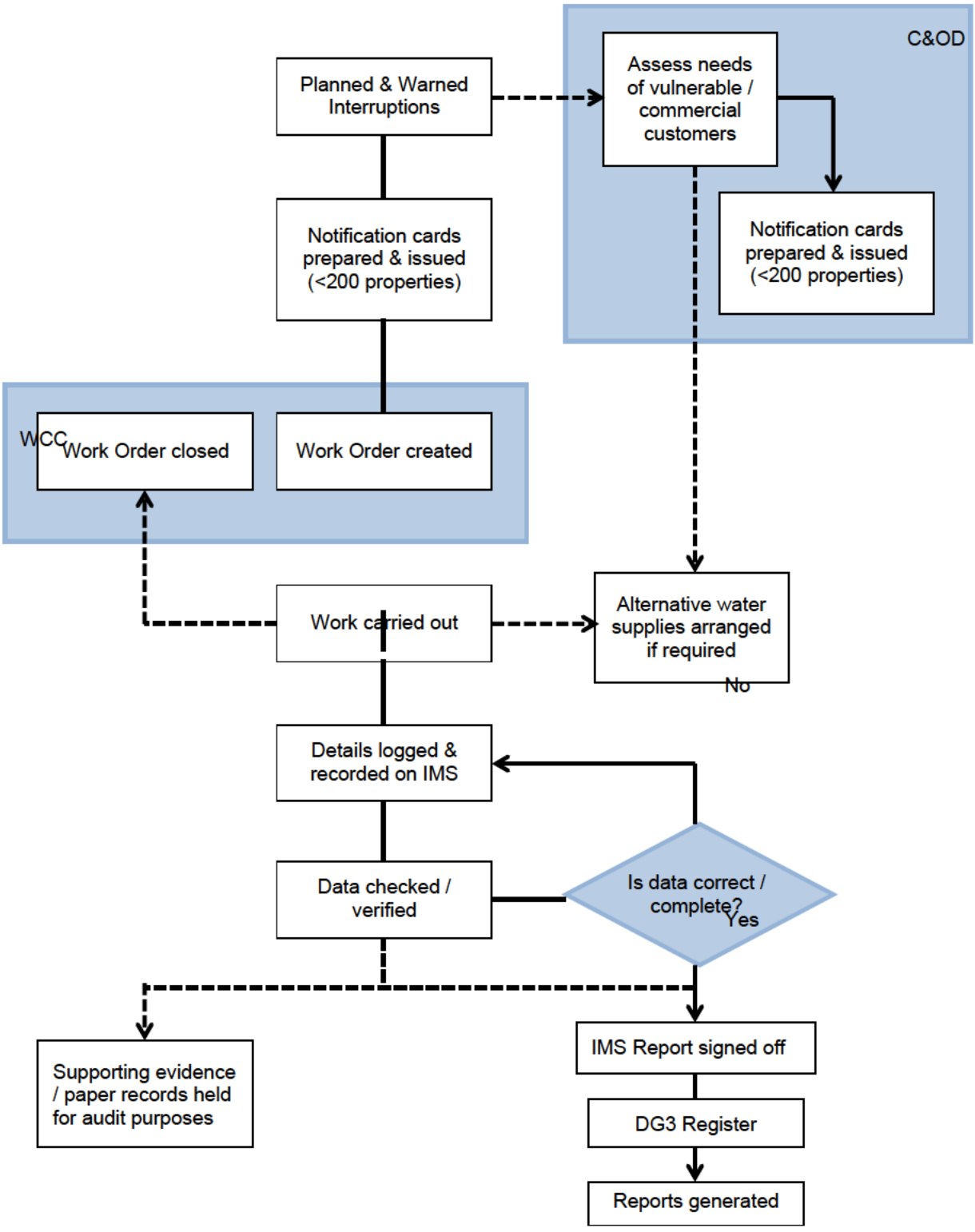
Silver Team

- Interrogate reports to provide status updates as incidents develop.

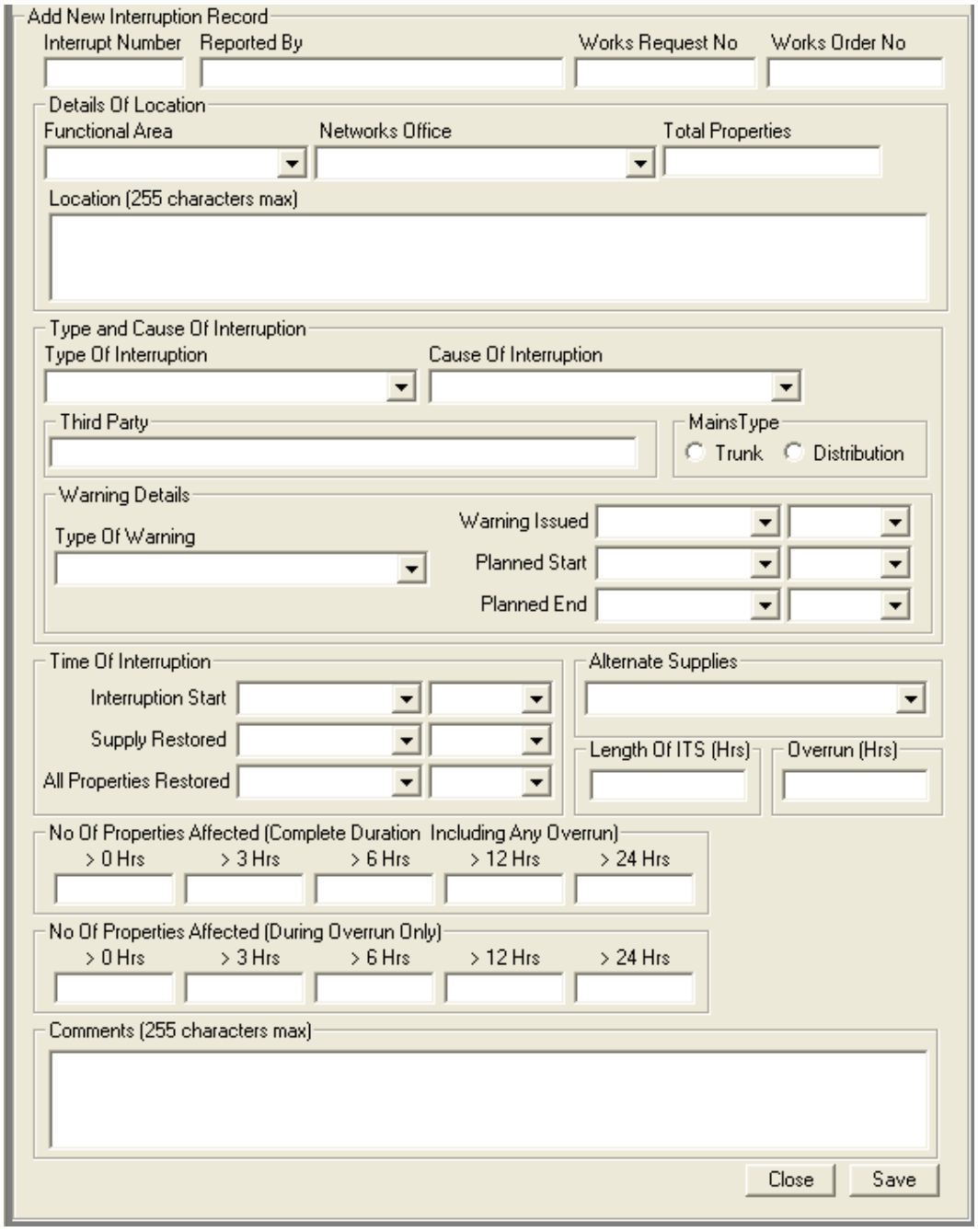
Appendix B – DG3 Process Flow Diagram – Unplanned or Unwarned Interruptions



Appendix B – DG3 Process Flow Diagram – Planned and Warned Interruptions



Appendix D – Pro forma - Interruption Record Sheet



Appendix E – Pointer 2.1 Specification Extract (Page 12)

4.21 BUILDING_STATUS

Definition
The current physical status of the building.

Constraints
Population of this field is mandatory.

Permitted PAO Status values are:

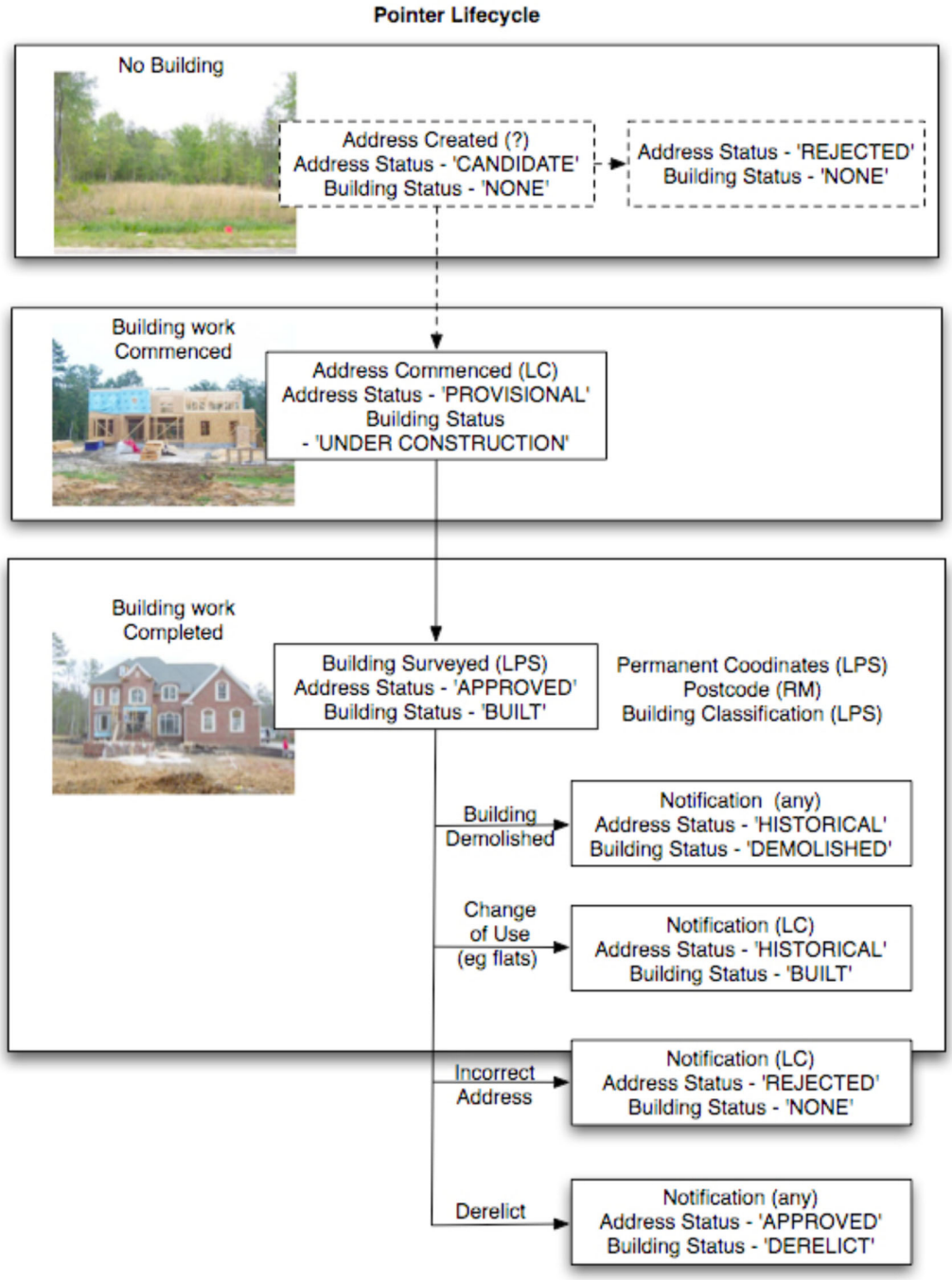
None, Under Construction, Built, Derelict and Demolished

Details
This field reflects changes to the Building_Status.

The values in this field are system generated and when a new address sent in from a council is entered in the system, the Building_Status is set to ‘None’ and the Address_Status set to ‘Candidate’. When the council sends notification that building has commenced, the Building_Status is set to ‘Under Construction’ and the Address_Status set to ‘Provisional’. After LPS field surveyors have confirmed the exact co-ordinates for the building, the Temp_Coords field is updated and the Building_Status is set to ‘Built’ and the Address_Status set to ‘Approved’. A notification from a council that a building is derelict or demolished results in the Building_Status being updated and the Address_Status set to ‘Historical’.

Please note that depending on the purpose for which the data is being used, the user may need to filter out certain categories of Building _Status. For example, addresses for ‘Demolished’ buildings would not be required where a mail shot is planned.

Appendix E – Pointer 2.1 Specification Extract (Page 13)



Appendix E – Pointer 2.1 Specification Extract (Page 14)

4.22 ADDRESS_STATUS

Definition
The current logical status of the address.

Constraints
Permitted ADDRESS_STATUS values are: (See diagram above)

- Candidate - before building starts. Planning permission has been granted but building has not commenced. Created by the Local Council before building has begun.
- Provisional – The Local Council has confirmed that the building is under construction.
- Approved – LPS add permanent co-ordinates and/or a building classification. A Postcode may also be added however this does not affect the ADDRESS_STATUS
- Historical - addresses that are no longer in use due to dereliction, demolition etc.
- Rejected – used to indicate the deletion of an incorrect address. Population of this field is mandatory, and is system generated.

Details
The values in this field are system generated and when a new address sent in from a council is entered in the system, the Building_Status is set to ‘None’ and the Address_Status set to ‘Candidate’. When the council sends notification that building has commenced, the Building_Status is set to ‘Under Construction’ and the Address_Status set to ‘Provisional’. After LPS field surveyors have confirmed the exact co-ordinates for the building, the Temp_Coords field is updated and the Building_Status is set to ‘Built’ and the Address_Status set to ‘Approved’. A notification from a council that a building is derelict or demolished results in the Building_Status being updated and the Address_Status set to ‘Historical’.

Please note that depending on the purpose for which the data is being used, the data should be filtered on the categories of Address _Status. For example, addresses set to ‘Historical’ would not be required where a mail shot is planned.

4.23 CLASSIFICATION

Definition
The current use of the building, derived from the LPS classification.

Constraints
Data in this field is system generated.

Permitted CLASSIFICATION values are shown below. These are derived from the detailed LPS list of valuation classifications.

Details
There are three main classification groups:

- NULL – Where the record has not yet been updated with an LPS classification.
- Non Domestic (formerly Commercial) – these records are prefixed with ‘ND’
- Domestic (formerly Residential) – these records are prefixed with ‘DO’. Where an individual is operating a business from a room within their home, LPS still classify this as a Residential property.

These are subdivided into a further classification as detailed above.

When the building use of an addressable object changes, the CLASSIFICATION field will be updated to reflect this change.

Appendix E – Pointer 2.1 Specification Extract (Page 15)

CODE	CLASSIFICATION DESCRIPTION
ND_agriculture	Agriculture (incl farms, market gardens)
ND_agriculture_other	Miscellaneous Agriculture
ND_comm_other	Commercial other
ND_culture	Cultural (incl museums, libraries)
ND_culture_other	Miscellaneous Culture
ND_education	Education (incl school, further ed)
ND_entertainment	Leisure and tourism(non-sporting - cinemas etc)
ND_ents_other	Miscellaneous Entertainment
ND_freight_other	Freight (canal, dock, railway undertaking)
ND_health	Health(incl hospital, care home, clinics)
ND_hospitality	Hospitality (incl hotels, b&b)
ND_indust_other	Miscellaneous Industry
ND_industry	Industry (incl factory, quarries)
ND_legal	Law and Order
ND_office	Commercial office - banks, post offices, offices
ND_religious	Religious establishment (incl places of worship)
ND_retail	Retail (shops, showrooms etc)
ND_sporting	Recreation (sports facilities)
ND_utilities	Public utilities
ND_utilities_other	Miscellaneous Utilities
DO_apart	Domestic - Apartments/flats
DO_detached	Domestic - detached
DO_semi	Domestic - Semi
DO_terrace	Domestic - Terrace
DO_other	Domestic other (incl Lock-up garages)

4.24 CREATION_DATE

Definition
The date when an address is first entered into the system by the Local Council.

Constraints
This field will only be populated for records created after the Pointer application went live in 2005. The field is automatically populated when records are entered into the database. It does not necessarily relate to the date of building, but rather when the information was provided.

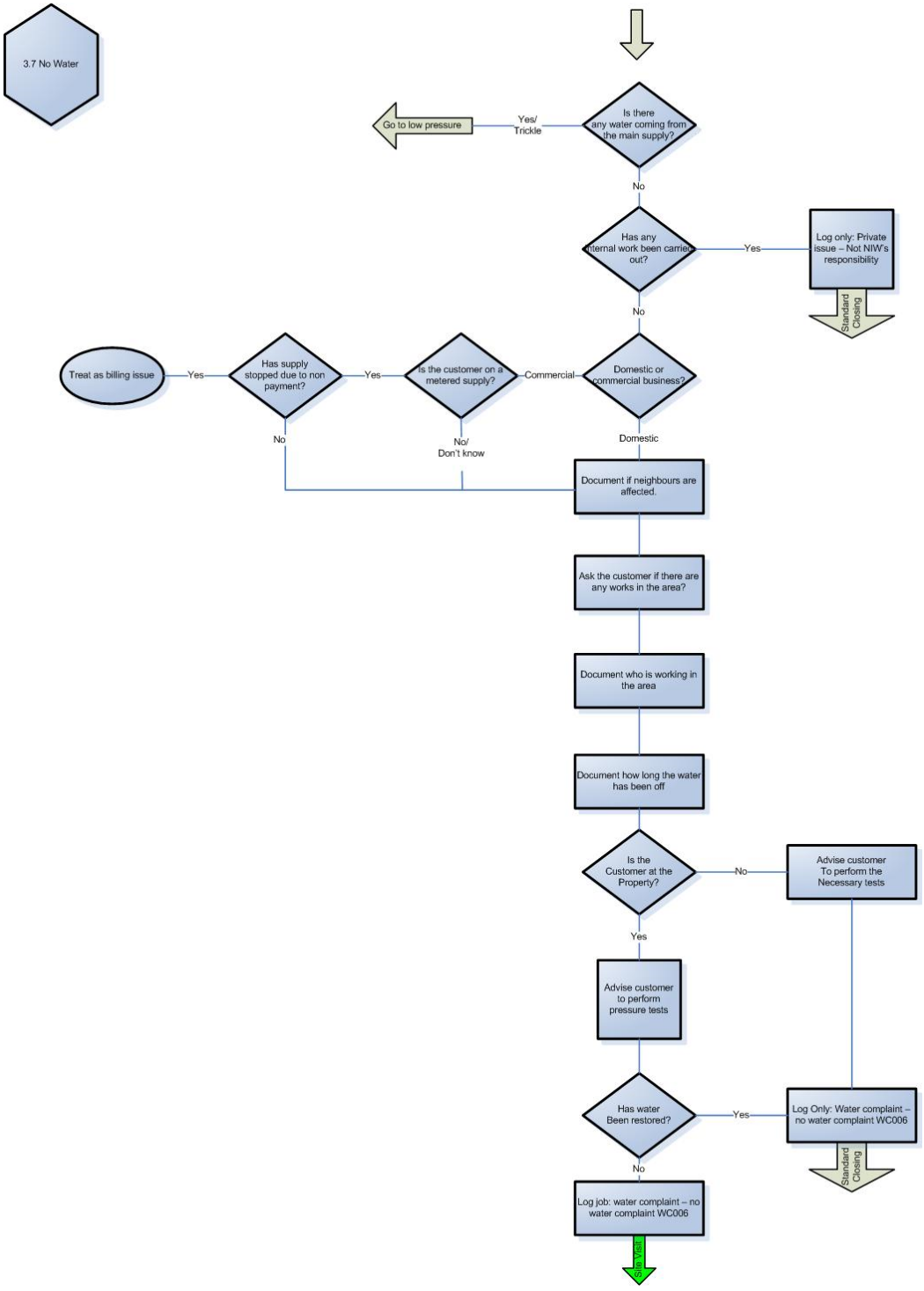
4.25 COMMENCEMENT_DATE

Definition
This is the date when construction on the property has begun.

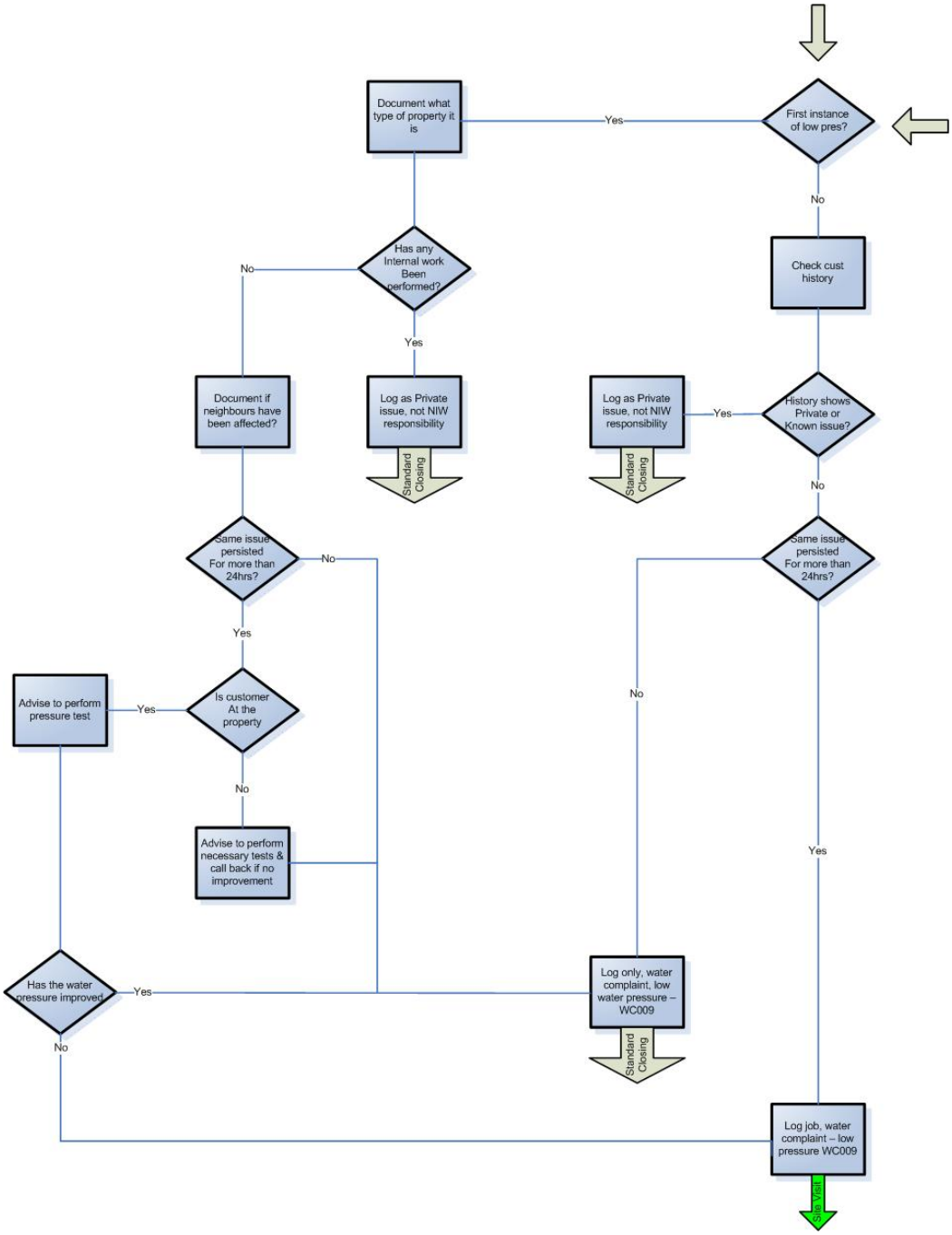
Constraints
This field will be populated for records created after the release of the new Pointer Product and when Local Council informs Pointer of the fact.

Details
This indicates when the BUILDING_STATUS changes from ‘NONE’ to ‘UNDER CONSTRUCTION’

Appendix F – CRC Call Script for 'No Water' Complaints



Appendix F – CRC Call Script for 'Low Pressure' Complaints



Appendix G – DG3 Register Extract *(Unplanned Interruption Events – IMS Report RPT1184)*

Unplanned, Unwarned Interruptions

More than 3 hrs No of Properties 671

Event Id	Interruption Id User Friendly	Interruption Status Name	Managing Function Name	Field Manager Area Name	Event Creator	DG3 Creator	Interruption Type Name	Planned Warning Date Time 1	Planned Warning Type	Planned Start Date Time 1	Planned Restoration Date Time 1	Actual Start Date Time 1	Actual Supply Restored Date Time 1	Total Affected Properties Count 1	Number of Properties Affected	Number of Properties Affected 3	Number of Properties Affected 6	Number of Properties Affected 12	Number of Properties Affected 24	Property Duration	Property Duration Hours	Property Duration Minutes	Property Duration Seconds	Location	Third Party Caused Interruption	Third Party	Other Third Party Details	Interruption Cause Description
2 760215	215444	Submitted to Area Manager	Kerhu orks Water	NWA 4B	[redacted]		Unplanned Interruption		N/A			26/03/2024 10:00	26/03/2024 13:08	16	6	6	0	0	0	0 Hrs 8 Mins 0 Secs	3	8	0	UPRN: 187288 (GZ) - [redacted] Ashfield Road, Ashfield Or Grange Mounta in Bar, Clogher, Tyrone, [redacted]	SALSE			Pump Equipment Failure
2 758361	215315	Submitted to Area Manager	Kerhu orks Water	NWA 3A	[redacted]		Unplanned Interruption		N/A			05/03/2024 10:51	05/03/2024 16:00	292	6	6	0	0	0	0 Hrs 9 Mins 0 Secs	5	9	0	UPRN: 185267712 - [redacted] Lagan Walk, Old Warren, Lisburn , Antrim, [redacted]	SALSE			Burst Main /Main Repair
2 760218	215447	Submitted to Area Manager	Kerhu orks Water	NWA 3B	[redacted]		Unplanned Interruption		N/A			26/03/2024 19:16	26/03/2024 22:30	197	68	68	0	0	0	0 Hrs 14 Mins 0 Secs	3	14	0	UPRN: 185337 (099) - [redacted] Violet Hill Avenue, Lisdrumgu Bon, Newry, Armagh, [redacted]	SALSE			Burst Main /Main Repair
2 758961	215359	Submitted to Area Manager	Kerhu orks Water	NWA 6A	[redacted]		Unplanned Interruption		N/A			12/03/2024 09:00	12/03/2024 12:15	61	1	1	0	0	0	0 Hrs 15 Mins 0 Secs	3	15	0	UPRN: 185675 (080) - [redacted] Drumlea gh Road North, Langle ag, Newto wnbrew art, Tyrone a, [redacted]	SALSE			Burst Main /Main Repair
2 760219	215449	Registered	Kerhu orks Water	NWA 3B	[redacted]		Unplanned Interruption		N/A			31/03/2024 13:35	31/03/2024 17:00	146	12	12	0	0	0	0 Hrs 25 Mins 0 Secs	3	25	0	UPRN: 185825 (825) - [redacted] Drumintee Road , Drumintee, Newry , Armagh, [redacted]	SALSE			Burst Main /Main Repair
2 759518	215394	Submitted to Area Manager	Kerhu orks Water	NWA 1A	[redacted]		Unplanned Interruption		N/A			20/03/2024 14:59	20/03/2024 18:30	13	13	13	0	0	0	0 Hrs 31 Mins 0 Secs	3	31	0	UPRN: 185538 (642) - [redacted] Curragh Road , Camus , Coleraine, Lon donderry, [redacted]	SALSE			Burst Main /Main Repair
2 760215	215444	Submitted to Area Manager	Kerhu orks Water	NWA 4B	[redacted]		Unplanned Interruption		N/A			26/03/2024 09:30	26/03/2024 13:08	16	10	10	0	0	0	0 Hrs 38 Mins 0 Secs	3	38	0	UPRN: 187288 (GZ) - [redacted] Ashfield Road, Ashfield Or Grange Mounta in Bar, Clogher, Tyrone, [redacted]	SALSE			Pump Equipment Failure
2 758876	215294	Submitted to Area Manager	Kerhu orks Water	NWA 4B	[redacted]		Unplanned Interruption		N/A			01/03/2024 18:11	01/03/2024 22:00	59	16	16	0	0	0	0 Hrs 49 Mins 0 Secs	3	49	0	Service Reservoir - 503563 - Derrylin Gortahurk - Cortahurk Road , Gortahurk, Derrylin , Fermanagh, [redacted]	SALSE			Electricity Supply Failure
2 760017	215432	Submitted to Area Manager	Kerhu orks Water	NWA 4B	[redacted]		Unplanned Interruption		N/A			26/03/2024 08:24	26/03/2024 12:13	62	31	31	0	0	0	0 Hrs 49 Mins 0 Secs	3	49	0	UPRN: 187594 104) - [redacted] Farm Road, Legatonegan, Castlederg, Tyrone, [redacted]	SALSE			Burst Main /Main Repair
2 758361	215315	Submitted to Area Manager	Kerhu orks Water	NWA 3A	[redacted]		Unplanned Interruption		N/A			05/03/2024 11:39	05/03/2024 15:30	292	21	21	0	0	0	0 Hrs 51 Mins 0 Secs	3	51	0	UPRN: 185267712 - [redacted] Lagan Walk, Old Warren, Lisburn , Antrim, [redacted]	SALSE			Burst Main /Main Repair
2 759051	215365	Submitted to Area Manager	Kerhu orks Water	NWA 2B	[redacted]		Unplanned Interruption		N/A			12/03/2024 12:43	12/03/2024 16:45	39	8	8	0	0	0	0 Hrs 2 Mins 0 Secs	4	2	0	UPRN: 185781 (345) - [redacted] Drumcullen Road , Ballymount, Dow npatrick, Down, [redacted]	SALSE			Burst Main /Main Repair
2 760012	215430	Registered	Kerhu orks Water	NWA 2B	[redacted]		Unplanned Interruption		N/A			25/03/2024 17:33	25/03/2024 21:40	569	26	26	0	0	0	0 Hrs 7 Mins 0 Secs	4	7	0	UPRN: 185294 (603) - [redacted] Drumcaw Road , Knockstickle n, Dow npatrick, Down, [redacted]	SALSE			Burst Main /Main Repair
2 758961	215359	Submitted to Area Manager	Kerhu orks Water	NWA 6A	[redacted]		Unplanned Interruption		N/A			12/03/2024 09:00	12/03/2024 13:15	61	60	60	0	0	0	0 Hrs 15 Mins 0 Secs	4	15	0	UPRN: 185675 (080) - [redacted] Drumlea gh Road North, Langle ag, Newto wnbrew art, Tyrone a, [redacted]	SALSE			Burst Main /Main Repair
2 758876	215294	Submitted to Area Manager	Kerhu orks Water	NWA 4B	[redacted]		Unplanned Interruption		N/A			01/03/2024 12:12	01/03/2024 16:30	59	18	18	0	0	0	0 Hrs 18 Mins 0 Secs	4	18	0	Service Reservoir - 503563 - Derrylin Gortahurk - Cortahurk Road , Gortahurk, Derrylin , Fermanagh, [redacted]	SALSE			Electricity Supply Failure
2 759978	215415	Submitted to Area Manager	Kerhu orks Water	NWA 3B	[redacted]		Unplanned Interruption		N/A			22/03/2024 17:50	22/03/2024 22:30	57	28	28	0	0	0	0 Hrs 40 Mins 0 Secs	4	40	0	UPRN: 187757 801) - [redacted] Lowis Road, Drew, Cromarx, Stewh, [redacted]	SALSE			Pump Equipment Failure
2 758361	215315	Submitted to Area Manager	Kerhu orks Water	NWA 3A	[redacted]		Unplanned Interruption		N/A			05/03/2024 09:48	05/03/2024 15:00	292	137	137	0	0	0	0 Hrs 12 Mins 0 Secs	5	12	0	UPRN: 185267712 - [redacted] Lagan Walk, Old Warren, Lisburn , Antrim, [redacted]	SALSE			Burst Main /Main Repair
2 760012	215430	Registered	Kerhu orks Water	NWA 2B	[redacted]		Unplanned Interruption		N/A			25/03/2024 14:43	25/03/2024 19:58	569	8	8	0	0	0	0 Hrs 15 Mins 0 Secs	5	15	0	UPRN: 185294 (603) - [redacted] Drumcaw Road , Knockstickle n, Dow npatrick, Down, [redacted]	SALSE			Burst Main /Main Repair
2 758804	215290	Submitted to Area Manager	Kerhu orks Water	NWA 3B	[redacted]		Unplanned Interruption		N/A			01/03/2024 05:06	01/03/2024 10:26	145	16	16	0	0	0	0 Hrs 17 Mins 0 Secs	5	17	0	UPRN: 186007 568) - [redacted] Newth orn Hill, Tullinisky, Dromore, Down, [redacted]	SALSE			Burst Main /Main Repair
2 759824	215379	Submitted to Area Manager	Kerhu orks Water	NWA 3A	[redacted]		Unplanned Interruption		N/A			14/03/2024 11:03	14/03/2024 16:30	94	29	29	0	0	0	0 Hrs 27 Mins 0 Secs	5	27	0	UPRN: 185884 (677) - [redacted] Rossm ore Road , Ross Beg, Dungannon, Tyrone, [redacted]	SALSE			Burst Main /Main Repair
2 759802	215416	Submitted to Area Manager	Kerhu orks Water	NWA 4B	[redacted]		Unplanned Interruption		N/A			23/03/2024 03:40	23/03/2024 09:12	63	10	10	0	0	0	0 Hrs 32 Mins 0 Secs	5	32	0	Treated Water Pumping Station - 503830 - Ballycastly Sharon - Sharon Road, Ballycastly, Clogher, Tyrone, [redacted]	SALSE			Pump Equipment Failure
2 759802	215291	Registered	Kerhu orks Water	NWA 4B	[redacted]		Unplanned Interruption		N/A			01/03/2024 07:26	01/03/2024 13:00	33	33	33	0	0	0	0 Hrs 34 Mins 0 Secs	5	34	0	Treated Water Pumping Station - 504079 - Half Moon Road - Aghanagh Road , Aghan agh, Lisn askea, Fermanagh, [redacted]	TSUC	NE	Electricity Supply Failure
2 760210	215433	Registered	Kerhu orks Water	NWA 4B	[redacted]		Unplanned Interruption		N/A			26/03/2024 10:00	26/03/2024 16:00	83	83	83	0	0	0	0 Hrs 0 Mins 0 Secs	6	0	0	Treated Water Pumping Station - 503618 - Cashby Road East - Cashby Road, Gortnacreagh, Omagh, Tyrone, [redacted]	SALSE			Electricity Supply Failure
2 759979	215414	Submitted to Area Manager	Kerhu orks Water	NWA 2B	[redacted]		Unplanned Interruption		N/A			22/03/2024 16:34	22/03/2024 23:00	15	15	15	15	0	0	0 Hrs 26 Mins 0 Secs	6	26	0	UPRN: 185925 471) - [redacted] Newcastle Road, Seafonde Dermesne, Dow npatrick, Down, [redacted]	SALSE			Burst Main /Main Repair
2 760012	215430	Registered	Kerhu orks Water	NWA 2B	[redacted]		Unplanned Interruption		N/A			25/03/2024 14:50	25/03/2024 21:40	569	13	13	0	0	0	0 Hrs 50 Mins 0 Secs	6	50	0	UPRN: 185294 (603) - [redacted] Drumcaw Road , Knockstickle n, Dow npatrick, Down, [redacted]	SALSE			Burst Main /Main Repair
2 759802	215416	Submitted to Area Manager	Kerhu orks Water	NWA 4B	[redacted]		Unplanned Interruption		N/A			23/03/2024 03:03	23/03/2024 12:45	63	2	2	2	0	0	0 Hrs 42 Mins 0 Secs	9	42	0	Treated Water Pumping Station - 503830 - Ballycastly Sharon - Sharon Road, Ballycastly, Clogher, Tyrone, [redacted]	SALSE			Pump Equipment Failure

Unplanned, Unwarned Interruptions

More than 6 hrs No of Properties 30

Event Id	Interruption Id User Friendly	Interruption Status Name	Managing Function Name	Field Manager Area Name	Event Creator	DG3 Creator	Interruption Type Name	Planned Warning Date Time 1	Planned Warning Type	Planned Start Date Time 1	Planned Restoration Date Time 1	Actual Start Date Time 1	Actual Supply Restored Date Time 1	Total Affected Properties Count 1	Number of Properties Affected	Number of Properties Affected 3	Number of Properties Affected 6	Number of Properties Affected 12	Number of Properties Affected 24	Property Duration	Property Duration Hours	Property Duration Minutes	Property Duration Seconds	Location	Third Party Caused Interruption	Third Party	Other Third Party Details	Interruption Cause Description
2 759979	215414	Submitted to Area Manager	Kerhu orks Water	NWA 2B	[redacted]		Unplanned Interruption		N/A			22/03/2024 16:34	22/03/2024 23:00	15	15	15	15	0	0	0 Hrs 26 Mins 0 Secs	6	26	0	UPRN: 185925 471) - [redacted] Newcastle Road, Seafonde Dermesne, Dow npatrick, Down, [redacted]	SALSE			Burst Main /Main Repair
2 760012	215430	Registered	Kerhu orks Water	NWA 2B	[redacted]		Unplanned Interruption		N/A			25/03/2024 14:50	25/03/2024 21:40	569	13	13	0	0	0	0 Hrs 50 Mins 0 Secs	6	50	0	UPRN: 185294 (603) - [redacted] Drumcaw Road , Knockstickle n, Dow npatrick, Down, [redacted]	SALSE			Burst Main /Main Repair
2 759802	215416	Submitted to Area Manager	Kerhu orks Water	NWA 4B	[redacted]		Unplanned Interruption		N/A			23/03/2024 03:03	23/03/2024 12:45	63	2	2	2	0	0	0 Hrs 42 Mins 0 Secs	9	42	0	Treated Water Pumping Station - 503830 - Ballycastly Sharon - Sharon Road, Ballycastly, Clogher, Tyrone, [redacted]	SALSE			Pump Equipment Failure

Unplanned, Unwarned Interruptions

More than 12 hrs No of Properties 0

Event Id	Interruption Id User Friendly	Interruption Status Name	Managing Function Name	Field Manager Area Name	Event Creator	DG3 Creator	Interruption Type Name	Planned Warning Date Time 1	Planned Warning Type	Planned Start Date Time 1	Planned Restoration Date Time 1	Actual Start Date Time 1	Actual Supply Restored Date Time 1	Total Affected Properties Count 1	Number of Properties Affected	Number of Properties Affected 3	Number of Properties Affected 6	Number of Properties Affected 12	Number of Properties Affected 24	Property Duration	Property Duration Hours	Property Duration Minutes	Property Duration Seconds	Location	Third Party Caused Interruption	Third Party	Other Third Party Details	Interruption Cause Description

Unplanned, Unwarned Interruptions

More than 24 hrs No of Properties 0

Event Id	Interruption Id User Friendly	Interruption Status Name	Managing Function Name	Field Manager Area Name	Event Creator	DG3 Creator	Interruption Type Name	Planned Warning Date Time 1	Planned Warning Type	Planned Start Date Time 1	Planned Restoration Date Time 1	Actual Start Date Time 1	Actual Supply Restored Date Time 1	Total Affected Properties Count 1	Number of Properties Affected	Number of Properties Affected 3	Number of Properties Affected 6	Number of Properties Affected 12	Number of Properties Affected 24	Property Duration	Property Duration Hours	Property Duration Minutes	Property Duration Seconds	Location	Third Party Caused Interruption	Third Party	Other Third Party Details	Interruption Cause Description

Appendix G – DG3 Register Extract *(Planned & Warned, Third Party & Overrun Events – IMS Report RPT1184)*

Planned and Warned Interruptions

More than 3 hrs No of Properties **82**

Event Id	Interruption Id User Friendly	Interruption Status Name	Managing Function Name	Field Manager Area Name	Event Creator	DG3 Creator	Interruption Type Name	Planned Warning Date Time 1	Planned Warning Type	Planned Start Date Time 1	Planned Restoration Date Time 1	Actual Start Date Time 1	Actual Supply Restored Date Time 1	Total Affected Properties Count 1	Number of Properties Affected	Number of Properties Affected 3	Number of Properties Affected 6	Number of Properties Affected 12	Number of Properties Affected 24	Property Duration	Property Duration Hours	Property Duration Minutes	Property Duration Seconds	Location	Third Party Caused Interruption	Third Party	Other Third Party Details	Interruption Cause Description
275908	235171	Submitted to Area Manager	Networks Water	NWA1B	[redacted]		Planned Interruption	06/01/2024 10:00	Card drop	11/01/2024 19:00	14/01/2024 05:00	11/01/2024 20:04	14/01/2024 01:10	79	79	79	0	0	0	5 Hrs 26 Mins 0 Secs	5	26	0	(UPRN: 10561740[redacted]) - [redacted]rowns Bay Road, Ballygrainor More, Larne, Antrim, [redacted]	FALSE			Install New Fitting (e.g. SV, FH)
276024	235443	Submitted to Area Manager	Networks Water	NWA4A			Planned Interruption	23/01/2024 09:00	Card drop	26/01/2024 09:00	29/01/2024 17:00	26/01/2024 11:35	26/01/2024 16:45	3	3	3	0	0	0	5 Hrs 30 Mins 0 Secs	5	30	0	(UPRN: 10577160[redacted]) - [redacted]etteran Road, Letteran, Cookstown, Londonderry, [redacted]	FALSE			Service Pipe Repair

Planned and Warned Interruptions

More than 6 hrs No of Properties **0**

Event Id	Interruption Id User Friendly	Interruption Status Name	Managing Function Name	Field Manager Area Name	Event Creator	DG3 Creator	Interruption Type Name	Planned Warning Date Time 1	Planned Warning Type	Planned Start Date Time 1	Planned Restoration Date Time 1	Actual Start Date Time 1	Actual Supply Restored Date Time 1	Total Affected Properties Count 1	Number of Properties Affected	Number of Properties Affected 3	Number of Properties Affected 6	Number of Properties Affected 12	Number of Properties Affected 24	Property Duration	Property Duration Hours	Property Duration Minutes	Property Duration Seconds	Location	Third Party Caused Interruption	Third Party	Other Third Party Details	Interruption Cause Description

Planned and Warned Interruptions

More than 12 hrs No of Properties **0**

Event Id	Interruption Id User Friendly	Interruption Status Name	Managing Function Name	Field Manager Area Name	Event Creator	DG3 Creator	Interruption Type Name	Planned Warning Date Time 1	Planned Warning Type	Planned Start Date Time 1	Planned Restoration Date Time 1	Actual Start Date Time 1	Actual Supply Restored Date Time 1	Total Affected Properties Count 1	Number of Properties Affected	Number of Properties Affected 3	Number of Properties Affected 6	Number of Properties Affected 12	Number of Properties Affected 24	Property Duration	Property Duration Hours	Property Duration Minutes	Property Duration Seconds	Location	Third Party Caused Interruption	Third Party	Other Third Party Details	Interruption Cause Description

Planned and Warned Interruptions

More than 24 hrs No of Properties **0**

Event Id	Interruption Id User Friendly	Interruption Status Name	Managing Function Name	Field Manager Area Name	Event Creator	DG3 Creator	Interruption Type Name	Planned Warning Date Time 1	Planned Warning Type	Planned Start Date Time 1	Planned Restoration Date Time 1	Actual Start Date Time 1	Actual Supply Restored Date Time 1	Total Affected Properties Count 1	Number of Properties Affected	Number of Properties Affected 3	Number of Properties Affected 6	Number of Properties Affected 12	Number of Properties Affected 24	Property Duration	Property Duration Hours	Property Duration Minutes	Property Duration Seconds	Location	Third Party Caused Interruption	Third Party	Other Third Party Details	Interruption Cause Description

Interruptions caused by third parties

More than 3 hrs No of Properties **0**

Event Id	Interruption Id User Friendly	Interruption Status Name	Managing Function Name	Field Manager Area Name	Event Creator	DG3 Creator	Interruption Type Name	Planned Warning Date Time 1	Planned Warning Type	Planned Start Date Time 1	Planned Restoration Date Time 1	Actual Start Date Time 1	Actual Supply Restored Date Time 1	Total Affected Properties Count 1	Number of Properties Affected	Number of Properties Affected 3	Number of Properties Affected 6	Number of Properties Affected 12	Number of Properties Affected 24	Property Duration	Property Duration Hours	Property Duration Minutes	Property Duration Seconds	Location	Third Party Caused Interruption	Third Party	Other Third Party Details	Interruption Cause Description

Interruptions caused by third parties

More than 6 hrs No of Properties **0**

Event Id	Interruption Id User Friendly	Interruption Status Name	Managing Function Name	Field Manager Area Name	Event Creator	DG3 Creator	Interruption Type Name	Planned Warning Date Time 1	Planned Warning Type	Planned Start Date Time 1	Planned Restoration Date Time 1	Actual Start Date Time 1	Actual Supply Restored Date Time 1	Total Affected Properties Count 1	Number of Properties Affected	Number of Properties Affected 3	Number of Properties Affected 6	Number of Properties Affected 12	Number of Properties Affected 24	Property Duration	Property Duration Hours	Property Duration Minutes	Property Duration Seconds	Location	Third Party Caused Interruption	Third Party	Other Third Party Details	Interruption Cause Description

Interruptions caused by third parties

More than 12 hrs No of Properties **0**

Event Id	Interruption Id User Friendly	Interruption Status Name	Managing Function Name	Field Manager Area Name	Event Creator	DG3 Creator	Interruption Type Name	Planned Warning Date Time 1	Planned Warning Type	Planned Start Date Time 1	Planned Restoration Date Time 1	Actual Start Date Time 1	Actual Supply Restored Date Time 1	Total Affected Properties Count 1	Number of Properties Affected	Number of Properties Affected 3	Number of Properties Affected 6	Number of Properties Affected 12	Number of Properties Affected 24	Property Duration	Property Duration Hours	Property Duration Minutes	Property Duration Seconds	Location	Third Party Caused Interruption	Third Party	Other Third Party Details	Interruption Cause Description

Interruptions caused by third parties

More than 24 hrs No of Properties **0**

Event Id	Interruption Id User Friendly	Interruption Status Name	Managing Function Name	Field Manager Area Name	Event Creator	DG3 Creator	Interruption Type Name	Planned Warning Date Time 1	Planned Warning Type	Planned Start Date Time 1	Planned Restoration Date Time 1	Actual Start Date Time 1	Actual Supply Restored Date Time 1	Total Affected Properties Count 1	Number of Properties Affected	Number of Properties Affected 3	Number of Properties Affected 6	Number of Properties Affected 12	Number of Properties Affected 24	Property Duration	Property Duration Hours	Property Duration Minutes	Property Duration Seconds	Location	Third Party Caused Interruption	Third Party	Other Third Party Details	Interruption Cause Description

Unplanned Interruptions (Overruns of Planned Interruptions)

More than 3 hrs No of Properties **24**

Event Id	Interruption Id User Friendly	Interruption Status Name	Managing Function Name	Field Manager Area Name	Event Creator	DG3 Creator	Interruption Type Name	Planned Warning Date Time 1	Planned Warning Type	Planned Start Date Time 1	Planned Restoration Date Time 1	Actual Start Date Time 1	Actual Supply Restored Date Time 1	Total Affected Properties Count 1	Number of Properties Affected	Number of Properties Affected 3	Number of Properties Affected 6	Number of Properties Affected 12	Number of Properties Affected 24	Property Duration	Property Duration Hours	Property Duration Minutes	Property Duration Seconds	Location	Third Party Caused Interruption	Third Party	Other Third Party Details	Interruption Cause Description
275867	235335	Submitted to Area Manager	Networks Water	NWA4A	[redacted]		Planned Interruption	03/01/2024 00:00	Card drop	07/01/2024 09:00	07/01/2024 17:00	07/01/2024 14:00	07/01/2024 17:05	24	24	24	0	0	0	3 Hrs 5 Mins 0 Secs	3	5	0	(UPRN: 38564991[redacted]) - [redacted]Gilhead, Boyds Farm, Stewartstown, Tyrone, [redacted]	FALSE			Service Pipe Repair

Unplanned Interruptions (Overruns of Planned Interruptions)

More than 6 hrs No of Properties **0**

Event Id	Interruption Id User Friendly	Interruption Status Name	Managing Function Name	Field Manager Area Name	Event Creator	DG3 Creator	Interruption Type Name	Planned Warning Date Time 1	Planned Warning Type	Planned Start Date Time 1	Planned Restoration Date Time 1	Actual Start Date Time 1	Actual Supply Restored Date Time 1	Total Affected Properties Count 1	Number of Properties Affected	Number of Properties Affected 3	Number of Properties Affected 6	Number of Properties Affected 12	Number of Properties Affected 24	Property Duration	Property Duration Hours	Property Duration Minutes	Property Duration Seconds	Location	Third Party Caused Interruption	Third Party	Other Third Party Details	Interruption Cause Description

Unplanned Interruptions (Overruns of Planned Interruptions)

More than 12 hrs No of Properties **0**

Event Id	Interruption Id User Friendly	Interruption Status Name	Managing Function Name	Field Manager Area Name	Event Creator	DG3 Creator	Interruption Type Name	Planned Warning Date Time 1	Planned Warning Type	Planned Start Date Time 1	Planned Restoration Date Time 1	Actual Start Date Time 1	Actual Supply Restored Date Time 1	Total Affected Properties Count 1	Number of Properties Affected	Number of Properties Affected 3	Number of Properties Affected 6	Number of Properties Affected 12	Number of Properties Affected 24	Property Duration	Property Duration Hours	Property Duration Minutes	Property Duration Seconds	Location	Third Party Caused Interruption	Third Party	Other Third Party Details	Interruption Cause Description

Unplanned Interruptions (Overruns of Planned Interruptions)

More than 24 hrs No of Properties **0**

Event Id	Interruption Id User Friendly	Interruption Status Name	Managing Function Name	Field Manager Area Name	Event Creator	DG3 Creator	Interruption Type Name	Planned Warning Date Time 1	Planned Warning Type	Planned Start Date Time 1	Planned Restoration Date Time 1	Actual Start Date Time 1	Actual Supply Restored Date Time 1	Total Affected Properties Count 1	Number of Properties Affected	Number of Properties Affected 3	Number of Properties Affected 6	Number of Properties Affected 12	Number of Properties Affected 24	Property Duration	Property Duration Hours	Property Duration Minutes	Property Duration Seconds	Location	Third Party Caused Interruption	Third Party	Other Third Party Details	Interruption Cause Description

Appendix G – DG3 Register Extract *(Unplanned Interruption Property Records – IMS Report RPT1183)*

Event Id	Interruption Id User Friendly	Interruption Status	Managing Function	Field Manager Area	Event Creator	DG3 Creator	Interruption Name	Planned Warning Type	Planned Warning Date/Time	Duration Hours	Duration Minutes	Duration Seconds	Planned Start Date/Time	Planned Restoration Date/Time	Actual Start Date/Time	Unplanned Estimated Restoration Date/Time	Unplanned Repair Commenced Start Date/Time	Actual Supply Restored Date/Time	Water Sampler Contacted Date/Time	Unplanned Estimated All Properties Restored Date/Time	UPRN	PRIMARY THORFARE	BUILDING NUMBER	BUILDING NAME	SUB BUILDING NAME	SECONDARY THORFARE	TOWN	POSTCODE	DTM HEIGHT M	Affected Area Property Count Residential	Affected Area Property Count NonResidential	Affected Area Property Count Unknown	Total Affected Properties Count	Location	Property DMA	Third Party Caused Interruption	ThirdParty	Description	Interruption Mains Material	Interruption Mains Type
275924	215374	Submitted to Area Manager	Networks Water	NWA3A	[redacted]	[redacted]	Unplanned Interruption	N/A		5	27	0			14/03/2024 11:03	14/03/2024 16:00	15/03/2024 09:30	14/03/2024 16:30	14/03/2024 15:40	14/03/2024 15:35	185652451	Coalisland Road	[redacted]	[redacted]	[redacted]		Dungannon	[redacted]	102.6	79	5	10	94	(UPRN: 185884607) - [redacted] Rossmore Road, Ross Beg, Dungannon, Tyrone, [redacted]	C0830	FALSE		Burst Main/Main Repair	PVC	Distribution Mains
275924	215374	Submitted to Area Manager	Networks Water	NWA3A	[redacted]	[redacted]	Unplanned Interruption	N/A		5	27	0			14/03/2024 11:03	14/03/2024 16:00	15/03/2024 09:30	14/03/2024 16:30	14/03/2024 15:40	14/03/2024 15:35	185784919	Coalisland Road	[redacted]	[redacted]	[redacted]		Dungannon	[redacted]	101.94	79	5	10	94	(UPRN: 185884607) - [redacted] Rossmore Road, Ross Beg, Dungannon, Tyrone, [redacted]	C0830	FALSE		Burst Main/Main Repair	PVC	Distribution Mains
275924	215374	Submitted to Area Manager	Networks Water	NWA3A	[redacted]	[redacted]	Unplanned Interruption	N/A		5	27	0			14/03/2024 11:03	14/03/2024 16:00	15/03/2024 09:30	14/03/2024 16:30	14/03/2024 15:40	14/03/2024 15:35	185652459	Coalisland Road	[redacted]	[redacted]	[redacted]		Dungannon	[redacted]	103.11	79	5	10	94	(UPRN: 185884607) - [redacted] Rossmore Road, Ross Beg, Dungannon, Tyrone, [redacted]	C0830	FALSE		Burst Main/Main Repair	PVC	Distribution Mains
275924	215374	Submitted to Area Manager	Networks Water	NWA3A	[redacted]	[redacted]	Unplanned Interruption	N/A		5	27	0			14/03/2024 11:03	14/03/2024 16:00	15/03/2024 09:30	14/03/2024 16:30	14/03/2024 15:40	14/03/2024 15:35	185652460	Coalisland Road	[redacted]	[redacted]	[redacted]		Dungannon	[redacted]	102.5	79	5	10	94	(UPRN: 185884607) - [redacted] Rossmore Road, Ross Beg, Dungannon, Tyrone, [redacted]	C0830	FALSE		Burst Main/Main Repair	PVC	Distribution Mains
275924	215374	Submitted to Area Manager	Networks Water	NWA3A	[redacted]	[redacted]	Unplanned Interruption	N/A		5	27	0			14/03/2024 11:03	14/03/2024 16:00	15/03/2024 09:30	14/03/2024 16:30	14/03/2024 15:40	14/03/2024 15:35	185884901	Coalisland Road	[redacted]	[redacted]	[redacted]		Dungannon	[redacted]	91.36	79	5	10	94	(UPRN: 185884607) - [redacted] Rossmore Road, Ross Beg, Dungannon, Tyrone, [redacted]	C0830	FALSE		Burst Main/Main Repair	PVC	Distribution Mains
275924	215374	Submitted to Area Manager	Networks Water	NWA3A	[redacted]	[redacted]	Unplanned Interruption	N/A		5	27	0			14/03/2024 11:03	14/03/2024 16:00	15/03/2024 09:30	14/03/2024 16:30	14/03/2024 15:40	14/03/2024 15:35	187691038	Coalisland Road	[redacted]	[redacted]	[redacted]		Dungannon	[redacted]	91.36	79	5	10	94	(UPRN: 185884607) - [redacted] Rossmore Road, Ross Beg, Dungannon, Tyrone, [redacted]	C0830	FALSE		Burst Main/Main Repair	PVC	Distribution Mains
275924	215374	Submitted to Area Manager	Networks Water	NWA3A	[redacted]	[redacted]	Unplanned Interruption	N/A		5	27	0			14/03/2024 11:03	14/03/2024 16:00	15/03/2024 09:30	14/03/2024 16:30	14/03/2024 15:40	14/03/2024 15:35	185652473	Coalisland Road	[redacted]	[redacted]	[redacted]		Dungannon	[redacted]	91.81	79	5	10	94	(UPRN: 185884607) - [redacted] Rossmore Road, Ross Beg, Dungannon, Tyrone, [redacted]	C0830	FALSE		Burst Main/Main Repair	PVC	Distribution Mains
275924	215374	Submitted to Area Manager	Networks Water	NWA3A	[redacted]	[redacted]	Unplanned Interruption	N/A		5	27	0			14/03/2024 11:03	14/03/2024 16:00	15/03/2024 09:30	14/03/2024 16:30	14/03/2024 15:40	14/03/2024 15:35	187266857	Coalisland Road	[redacted]	[redacted]	[redacted]		Dungannon	[redacted]	90.99	79	5	10	94	(UPRN: 185884607) - [redacted] Rossmore Road, Ross Beg, Dungannon, Tyrone, [redacted]	C0830	FALSE		Burst Main/Main Repair	PVC	Distribution Mains
275924	215374	Submitted to Area Manager	Networks Water	NWA3A	[redacted]	[redacted]	Unplanned Interruption	N/A		5	27	0			14/03/2024 11:03	14/03/2024 16:00	15/03/2024 09:30	14/03/2024 16:30	14/03/2024 15:40	14/03/2024 15:35	187303695	Coalisland Road	[redacted]	[redacted]	[redacted]		Dungannon	[redacted]	90.43	79	5	10	94	(UPRN: 185884607) - [redacted] Rossmore Road, Ross Beg, Dungannon, Tyrone, [redacted]	C0830	FALSE		Burst Main/Main Repair	PVC	Distribution Mains
275924	215374	Submitted to Area Manager	Networks Water	NWA3A	[redacted]	[redacted]	Unplanned Interruption	N/A		5	27	0			14/03/2024 11:03	14/03/2024 16:00	15/03/2024 09:30	14/03/2024 16:30	14/03/2024 15:40	14/03/2024 15:35	187303700	Coalisland Road	[redacted]	[redacted]	[redacted]		Dungannon	[redacted]	114.5	79	5	10	94	(UPRN: 185884607) - [redacted] Rossmore Road, Ross Beg, Dungannon, Tyrone, [redacted]	C0830	FALSE		Burst Main/Main Repair	PVC	Distribution Mains
275924	215374	Submitted to Area Manager	Networks Water	NWA3A	[redacted]	[redacted]	Unplanned Interruption	N/A		5	27	0			14/03/2024 11:03	14/03/2024 16:00	15/03/2024 09:30	14/03/2024 16:30	14/03/2024 15:40	14/03/2024 15:35	185652469	Coalisland Road	[redacted]	[redacted]	[redacted]		Dungannon	[redacted]	90.21	79	5	10	94	(UPRN: 185884607) - [redacted] Rossmore Road, Ross Beg, Dungannon, Tyrone, [redacted]	C0830	FALSE		Burst Main/Main Repair	PVC	Distribution Mains
275924	215374	Submitted to Area Manager	Networks Water	NWA3A	[redacted]	[redacted]	Unplanned Interruption	N/A		5	27	0			14/03/2024 11:03	14/03/2024 16:00	15/03/2024 09:30	14/03/2024 16:30	14/03/2024 15:40	14/03/2024 15:35	187266687	Coalisland Road	[redacted]	[redacted]	[redacted]		Dungannon	[redacted]	113.84	79	5	10	94	(UPRN: 185884607) - [redacted] Rossmore Road, Ross Beg, Dungannon, Tyrone, [redacted]	C0830	FALSE		Burst Main/Main Repair	PVC	Distribution Mains
275924	215374	Submitted to Area Manager	Networks Water	NWA3A	[redacted]	[redacted]	Unplanned Interruption	N/A		5	27	0			14/03/2024 11:03	14/03/2024 16:00	15/03/2024 09:30	14/03/2024 16:30	14/03/2024 15:40	14/03/2024 15:35	187303697	Coalisland Road	[redacted]	[redacted]	[redacted]		Dungannon	[redacted]	90.91	79	5	10	94	(UPRN: 185884607) - [redacted] Rossmore Road, Ross Beg, Dungannon, Tyrone, [redacted]	C0830	FALSE		Burst Main/Main Repair	PVC	Distribution Mains
275924	215374	Submitted to Area Manager	Networks Water	NWA3A	[redacted]	[redacted]	Unplanned Interruption	N/A		5	27	0			14/03/2024 11:03	14/03/2024 16:00	15/03/2024 09:30	14/03/2024 16:30	14/03/2024 15:40	14/03/2024 15:35	185652461	Coalisland Road	[redacted]	[redacted]	[redacted]		Dungannon	[redacted]	92.26	79	5	10	94	(UPRN: 185884607) - [redacted] Rossmore Road, Ross Beg, Dungannon, Tyrone, [redacted]	C0830	FALSE		Burst Main/Main Repair	PVC	Distribution Mains
275924	215374	Submitted to Area Manager	Networks Water	NWA3A	[redacted]	[redacted]	Unplanned Interruption	N/A		5	27	0			14/03/2024 11:03	14/03/2024 16:00	15/03/2024 09:30	14/03/2024 16:30	14/03/2024 15:40	14/03/2024 15:35	187621254	Coalisland Road	[redacted]	[redacted]	[redacted]		Dungannon	[redacted]	92.14	79	5	10	94	(UPRN: 185884607) - [redacted] Rossmore Road, Ross Beg, Dungannon, Tyrone, [redacted]	C0830	FALSE		Burst Main/Main Repair	PVC	Distribution Mains
275924	215374	Submitted to Area Manager	Networks Water	NWA3A	[redacted]	[redacted]	Unplanned Interruption	N/A		5	27	0			14/03/2024 11:03	14/03/2024 16:00	15/03/2024 09:30	14/03/2024 16:30	14/03/2024 15:40	14/03/2024 15:35	185652478	Coalisland Road	[redacted]	[redacted]	[redacted]		Dungannon	[redacted]	90.85	79	5	10	94	(UPRN: 185884607) - [redacted] Rossmore Road, Ross Beg, Dungannon, Tyrone, [redacted]	C0830	FALSE		Burst Main/Main Repair	PVC	Distribution Mains
275924	215374	Submitted to Area Manager	Networks Water	NWA3A	[redacted]	[redacted]	Unplanned Interruption	N/A		5	27	0			14/03/2024 11:03	14/03/2024 16:00	15/03/2024 09:30	14/03/2024 16:30	14/03/2024 15:40	14/03/2024 15:35	185784912	Coalisland Road	[redacted]	[redacted]	[redacted]		Dungannon	[redacted]	95.37	79	5	10	94	(UPRN: 185884607) - [redacted] Rossmore Road, Ross Beg, Dungannon, Tyrone, [redacted]	C0830	FALSE		Burst Main/Main Repair	PVC	Distribution Mains
275924	215374	Submitted to Area Manager	Networks Water	NWA3A	[redacted]	[redacted]	Unplanned Interruption	N/A		5	27	0			14/03/2024 11:03	14/03/2024 16:00	15/03/2024 09:30	14/03/2024 16:30	14/03/2024 15:40	14/03/2024 15:35	185652470	Coalisland Road	[redacted]	[redacted]	[redacted]		Dungannon	[redacted]	94.34	79	5	10	94	(UPRN: 185884607) - [redacted] Rossmore Road, Ross Beg, Dungannon, Tyrone, [redacted]	C0830	FALSE		Burst Main/Main Repair	PVC	Distribution Mains
275924	215374	Submitted to Area Manager	Networks Water	NWA3A	[redacted]	[redacted]	Unplanned Interruption	N/A		5	27	0			14/03/2024 11:03	14/03/2024 16:00	15/03/2024 09:30	14/03/2024 16:30	14/03/2024 15:40	14/03/2024 15:35	185652462	Coalisland Road	[redacted]	[redacted]	[redacted]		Dungannon	[redacted]	101.86	79	5	10	94	(UPRN: 185884607) - [redacted] Rossmore Road, Ross Beg, Dungannon, Tyrone, [redacted]	C0830	FALSE		Burst Main/Main Repair	PVC	Distribution Mains
275924	215374	Submitted to Area Manager	Networks Water	NWA3A	[redacted]	[redacted]	Unplanned Interruption	N/A		5	27	0			14/03/2024 11:03	14/03/2024 16:00	15/03/2024 09:30	14/03/2024 16:30	14/03/2024 15:40	14/03/2024 15:35	187270196	Coalisland Road	[redacted]	[redacted]	[redacted]		Dungannon	[redacted]	87.34	79	5	10	94	(UPRN: 185884607) - [redacted] Rossmore Road, Ross Beg, Dungannon, Tyrone, [redacted]	C0830	FALSE		Burst Main/Main Repair	PVC	Distribution Mains
275924	215374	Submitted to Area Manager	Networks Water	NWA3A	[redacted]	[redacted]	Unplanned Interruption	N/A		5	27	0			14/03/2024 11:03	14/03/2024 16:00	15/03/2024 09:30	14/03/2024 16:30	14/03/2024 15:40	14/03/2024 15:35	185652339	Coalisland Road	[redacted]	[redacted]	[redacted]		Dungannon	[redacted]	86.74	79	5	10	94	(UPRN: 185884607) - [redacted] Rossmore Road, Ross Beg, Dungannon, Tyrone, [redacted]	C0830	FALSE		Burst Main/Main Repair	PVC	Distribution Mains
275924	215374	Submitted to Area Manager	Networks Water	NWA3A	[redacted]	[redacted]	Unplanned Interruption	N/A		5	27	0			14/03/2024 11:03	14/03/2024 16:00	15/03/2024 09:30	14/03/2024 16:30	14/03/2024 15:40	14/03/2024 15:35	185884916	Coalisland Road	[redacted]	[redacted]	[redacted]		Dungannon	[redacted]	89.09	79	5	10	94	(UPRN: 185884607) - [redacted] Rossmore Road, Ross Beg, Dungannon, Tyrone, [redacted]	C0830	FALSE		Burst Main/Main Repair	PVC	Distribution Mains
275924	215374	Submitted to Area Manager	Networks Water	NWA3A	[redacted]	[redacted]	Unplanned Interruption	N/A		5	27	0			14/03/2024 11:03	14/03/2024 16:00	15/03/2024 09:30	14/03/2024 16:30	14/03/2024 15:40	14/03/2024 15:35	185652345	Coalisland Road	[redacted]	[redacted]	[redacted]		Dungannon	[redacted]	88.62	79	5	10	94	(UPRN: 185884607) - [redacted] Rossmore Road, Ross Beg, Dungannon, Tyrone, [redacted]	C0830	FALSE		Burst Main/Main Repair	PVC	Distribution Mains
275924	215374	Submitted to Area Manager	Networks Water	NWA3A	[redacted]	[redacted]	Unplanned Interruption	N/A		5	27	0			14/03/2024 11:03	14/03/2024 16:00	15/03/2024 09:30	14/03/2024 16:30	14/03/2024 15:40	14/03/2024 15:35	185652340	Coalisland Road	[redacted]	[redacted]	[redacted]		Dungannon	[redacted]	91.3	79	5	10	94	(UPRN: 185884607) - [redacted] Rossmore Road, Ross Beg, Dungannon, Tyrone, [redacted]	C0830	FALSE		Burst Main/Main Repair	PVC	Distribution Mains
275924	215374	Submitted to Area Manager	Networks Water	NWA3A	[redacted]	[redacted]	Unplanned Interruption	N/A		5	27	0			14/03/2024 11:03	14/03/2024 16:00	15/03/2024 09:30	14/03/2024 16:30	14/03/2024 15:40	14/03/2024 15:35	185652341	Coalisland Road	[redacted]	[redacted]	[redacted]		Dungannon	[redacted]	92.17	79	5	10	94	(UPRN: 185884607) - [redacted] Rossmore Road, Ross Beg, Dungannon, Tyrone, [redacted]	C0830	FALSE		Burst Main/Main Repair	PVC	Distribution Mains
275924	215374	Submitted to Area Manager	Networks Water	NWA3A	[redacted]	[redacted]	Unplanned Interruption	N/A		5	27	0			14/03/2024 11:03	14/03/2024 16:00	15/03/2024 09:30	14/03/2024 16:30	14/03/2024 15:40	14/03/2024 15:35	187256524	Coalisland Road	[redacted]	[redacted]	[redacted]		Dungannon	[redacted]	96.6	79	5	10	94	(UPRN: 185884607) - [redacted] Rossmore Road, Ross Beg, Dungannon, Tyrone, [redacted]	C0830	FALSE		Burst Main/Main Repair	PVC	Distribution Mains
275924	215374	Submitted to Area Manager	Networks Water	NWA3A	[redacted]	[redacted]	Unplanned Interruption	N/A		5	27	0			14/03/2024 11:03	14/03/2024 16:00	15/03/2024 09:30	14/03/2024 16:30	14/03/2024 15:40	14/03/2024 15:35	185652342	Coalisland Road	[redacted]	[redacted]	[redacted]		Dungannon	[redacted]	90.71	79	5	10	94	(UPRN: 185884607) - [redacted] Rossmore Road, Ross Beg, Dungannon, Tyrone, [redacted]	C0830	FALSE		Burst Main/Main Repair	PVC	Distribution Mains
275924	215374	Submitted to Area Manager	Networks Water	NWA3A	[redacted]	[redacted]	Unplanned Interruption	N/A		5	27	0			14/03/2024 11:03	14/03/2024 16:00	15/03/2024 09:30	14/03/2024 16:30	14/03/2024 15:40	14/03/2024 15:35	185784918	Coalisland Road	[redacted]	[redacted]	[redacted]		Dungannon	[redacted]	91.39	79	5	10	94	(UPRN: 185884607) - [redacted] Rossmore Road, Ross Beg, Dungannon, Tyrone, [redacted]	C0830	FALSE		Burst Main/Main Repair	PVC	Distribution Mains
275924	215374	Submitted to Area Manager	Networks Water	NWA3A	[redacted]	[redacted]	Unplanned Interruption	N/A		5	27	0			14/03/2024 11:03	14/03/2024 16:00	15/03/2024 09:30	14/03/2024 16:30	14/03/2024 15:40	14/03/2024 15:35	185884936	Coalisland Road	[redacted]	[redacted]	[redacted]		Dungannon	[redacted]	89.98	79	5	10	94	(UPRN: 185884607) - [redacted] Rossmore Road, Ross Beg, Dungannon, Tyrone, [redacted]	C0830	FALSE		Burst Main/Main Repair	PVC	Distribution Mains
275924	215374	Submitted to Area Manager	Networks Water	NWA3A	[redacted]	[redacted]	Unplanned Interruption	N/A		0	59	0			14/03/2024 11:31	14/03/2024 16:00	15/03/2024 09:30	14/03/2024 12:30	14/03/2024 15:40	14/03/2024 15:35	185784811	Gortnaglush Road	[redacted]	[redacted]	[redacted]		Dungannon	[redacted]	88.79	79	5	10	94	(UPRN: 185884607) - [redacted] Rossmore Road, Ross Beg, Dungannon, Tyrone, [redacted]	C0830	FALSE		Burst Main/Main Repair	PVC	Distribution Mains
275924	215374	Submitted to Area Manager	Networks Water	NWA3A	[redacted]	[redacted]	Unplanned Interruption	N/A		0	59	0			14/03/2024 11:31	14/03/2024 16:00	15/03/2024 09:30	14/03/2024 12:30	14/03/2024 15:40	14/03/2024 15:35	185645705	Gortnaglush Road	[redacted]	[redacted]	[redacted]		Dungannon	[redacted]	94.09	79	5	10	94	(UPRN: 185884607) - [redacted] Rossmore Road, Ross Beg, Dungannon, Tyrone, [redacted]	C0830	FALSE		Burst Main/Main Repair	PVC	Distribution Mains
275924	215374	Submitted to Area Manager	Networks Water	NWA3A	[redacted]	[redacted]	Unplanned Interruption	N/A		0	59	0			14/03/2024 11:31	14/03/2024 16:00	15/03/2024 09:30	14/03/2024 12:30	14/03/2024 15:40	14/03/2024 15:35	185645716	Gortnaglush Road	[redacted]	[redacted]	[redacted]		Dungannon	[redacted]	107.81	79	5	10	94	(UPRN: 185884607) - [redacted] Rossmore Road, Ross Beg, Dungannon, Tyrone, [redacted]	C0830	FALSE		Burst Main/Main Repair	PVC	Distribution Mains
275924	215374	Submitted to Area Manager	Networks Water	NWA3A	[redacted]	[redacted]	Unplanned Interruption	N/A		0	59	0			14/03/2024 11:31	14/03/2024 16:00	15/03/2024 09:30	14/03/2024 12:30	14/03/2024 15:40	14/03/2024 15:35	187631023	Gortnaglush Road	[redacted]	[redacted]	[redacted]		Dungannon	[redacted]	108.31	79	5	10	94	(UPRN: 185884607) - [redacted] Rossmore Road, Ross Beg, Dungannon, Tyrone, [redacted]	C0830	FALSE		Burst Main/Main Repair	PVC	Distribution Mains
275924	215374	Submitted to Area Manager	Networks Water	NWA3A	[redacted]	[redacted]	Unplanned Interruption	N/A		0	59	0			14/03/2024 11:31	14/03/2024 16:00	15/03/2024 09:30	14/03/2024 12:30	14/03/2024 15:40	14/03/2024 15:35	185645706	Gortnaglush Road	[redacted]	[redacted]	[redacted]		Dungannon	[redacted]	117.17	79	5	10	94	(UPRN: 185884607) - [redacted] Rossmore Road, Ross Beg, Dungannon, Tyrone, [redacted]	C0830	FALSE		Burst Main/Main Repair	PVC	Distribution Mains
275924	215374	Submitted to Area Manager	Networks Water	NWA3A	[redacted]	[redacted]	Unplanned Interruption	N/A		0	59	0			14/03/2024 11:31	14/03/2024 16:00	15/03/2024 09:30	14/03/2024 12:30	14/03/2024 15:40	14/03/2024 15:35	187657114	Gortnaglush Road	[redacted]	[redacted]	[redacted]		Dungannon	[redacted]	111.14	79	5	10	94	(UPRN: 185884607) - [redacted] Rossmore Road, Ross Beg, Dungannon, Tyrone, [redacted]	C0830	FALSE		Burst Main/Main Repair	PVC	Distribution Mains
275924	215374	Submitted to Area Manager	Networks Water	NWA3A	[redacted]	[redacted]	Unplanned Interruption	N/A		0	59	0			14/03/2024 11:31	14/03/2024 16:00	15/03/2024 09:30	14/03/2024 12:30	14/03/2024 15:40	14/03/2024 15:35	185645707	Gortnaglush Road	[redacted]	[redacted]	[redacted]		Dungannon	[redacted]	115.19	79	5	10	94	(UPRN: 185884607) - [redacted] Rossmore Road, Ross Beg, Dungannon, Tyrone, [redacted]	C0830	FALSE		Burst Main/Main Repair	PVC	Distribution Mains
275924	215374	Submitted to Area Manager	Networks Water	NWA3A	[redacted]	[redacted]	Unplanned Interruption	N/A		0	59	0			14/03/2024 11:31	14/03/2024 16:00	15/03/2024 09:30	14/03/2024 12:30	14/03/2024 15:40	14/03/2024 15:35	185645708	Gortnaglush Road	[redacted]	[redacted]	[redacted]		Dungannon	[redacted]	120.16	79	5	10	94	(UPRN: 185884607) - [redacted] Rossmore Road, Ross Beg, Dungannon, Tyrone, [redacted]	C0830	FALSE		Burst Main/Main Repair	PVC	Distribution Mains
275924	215374	Submitted to Area Manager	Networks Water	NWA3A	[redacted]	[redacted]	Unplanned Interruption	N/A		0	59	0			14/03/2024 11:31	14/03/2024 16:00	15/03/2024 09:30	14/03/2024 12:30	14/03/2024 15:40	14/03/2024 15:35	186017235	Gortnaglush Road	[redacted]	[redacted]	[redacted]		Dungannon	[redacted]	120.46	79	5	10	94	(UPRN: 185884607) - [redacted] Rossmore Road, Ross Beg, Dungannon, Tyrone, [redacted]	C0830	FALSE		Burst Main/Main Repair	PVC	Distribution Mains
275924	215374	Submitted to Area Manager	Networks Water	NWA3A	[redacted]	[redacted]	Unplanned Interruption	N/A		0	59	0			14/03/2024 11:31	14/03/2024 16:00	15/03/2024 09:30	14/03/2024 12:30	14/03/2024 15:40	14/03/2024 15:35	185884839	Gortnaglush Road	[redacted]	[redacted]	[redacted]		Dungannon	[redacted]	114.37	79	5	10	94	(UPRN: 185884607) - [redacted] Rossmore Road, Ross Beg, Dungannon, Tyrone, [redacted]	C0830	FALSE		Burst Main/Main Repair	PVC	Distribution Mains
275924	215374	Submitted to Area Manager	Networks Water	NWA3A	[redacted]	[redacted]	Unplanned Interruption	N/A		0	59	0			14/03/2024 11:31	14/03/2024 16:00	15/03/2024 09:30	14/03/2024 12:30	14/03/2024 15:40	14/03/2024 15:35	185784812	Gortnaglush Road	[redacted]	[redacted]	[redacted]		Dungannon	[redacted]	87.44	79	5	10	94	(UPRN: 185884607) - [redacted] Rossmore Road, Ross Beg, Dungannon, Tyrone, [redacted]	C0830	FALSE		Burst Main/Main Repair	PVC	Distribution Mains
275924	215374	Submitted to Area Manager	Networks Water	NWA3A	[redacted]	[redacted]	Unplanned Interruption	N/A		0	59	0			14/03/2024 11:31	14/03/2024 16:00	15/03/2024 09:30	14/03/2024 12:30	14/03/2024 15:40	14/03/2024 15:35	185884677	Gortnaglush Road	[redacted]	[redacted]	[redacted]		Dungannon	[redacted]	87.27	79	5	10	94	(UPRN: 185884607) - [redacted] Rossmore Road, Ross Beg, Dungannon, Tyrone, [redacted]	C0830	FALSE		Burst Main/Main Repair	PVC	Distribution Mains
275924	215374	Submitted to Area Manager	Networks Water	NWA3A	[redacted]	[redacted]	Unplanned Interruption	N/A		0	59	0			14/03/2024 11:31	14/03/2024 16:00	15/03/2024 09:30	14/03/2024 12:30	14/03/2024 15:40	14/03/2024 15:35	185645714	Gortnaglush Road	[redacted]	[redacted]	[redacted]		Dungannon	[redacted]	104.33	79	5	10	94	(UPRN: 185884607) - [redacted] Rossmore Road, Ross Beg, Dungannon, Tyrone, [redacted]	C0830	FALSE		Burst Main/Main Repair	PVC	Distribution Mains
275924	215374	Submitted to Area Manager	Networks Water	NWA3A	[redacted]	[redacted]	Unplanned Interruption	N/A		0	59	0			14/03/2024 11:31	14/03/2024 16:00	15/03/2024 09:30	14/03/2024 12:30	14/03/2024 15:40	14/03/2024 15:35	187349475	Gortnaglush Road	[redacted]	[redacted]	[redacted]		Dungannon	[redacted]	99.43	79	5	10	94	(UPRN: 185884607) - [redacted] Rossmore Road, Ross Beg, Dungannon, Tyrone, [redacted]	C0830	FALSE		Burst Main/Main Repair	PVC	Distribution Mains
275924	215374	Submitted to Area Manager	Networks Water	NWA3A	[redacted]	[redacted]	Unplanned Interruption	N/A		0	59	0			14/03/2024 11:31	14/03/2024 16:00	15/03/2024 09:30	14/03/2024 12:30	14/03/2024 15:40	14/03/2024 15:35	187691597	Gortnaglush Road	[redacted]	[redacted]	[redacted]		Dungannon	[redacted]	89.55	79	5	10	94	(UPRN: 185884607) - [redacted] Rossmore Road, Ross Beg, Dungannon, Tyrone, [redacted]	C0830	FALSE		Burst Main/Main Repair	PVC	Distribution Mains
275924	215374	Submitted to Area Manager	Networks Water	NWA3A	[redacted]	[redacted]	Unplanned Interruption	N/A		2	43	0			14/03/2024 13:47	14/03/2024 16:00	15/03/2024 09:30	14/03/2024 16:30	14/03/2024 15:40	14/03/2024 15:35	185884607	Rossmore Road	[redacted]	[redacted]	[redacted]		Dungannon	[redacted]	84.71	79	5	10	94	(UPRN: 185884607) - [redacted] Rossmore Road, Ross Beg, Dungannon, Tyrone, [redacted]	C0830	FALSE		Burst Main/Main Repair	PVC	Distribution Mains
275924	215374	Submitted to Area Manager	Networks Water	NWA3A	[redacted]	[redacted]	Unplanned Interruption	N/A		2	43	0			14/03/2024 13:47	14/03/2024 16:00	15/03/2024 09:30	14/03/2024 16:30	14/03/2024 15:40	14/03/2024 15:35	187708650	Rossmore Road	[redacted]	[redacted]	[redacted]		Dungannon	[redacted]	101.64	79	5	10	94	(UPRN: 185884607) - [redacted] Rossmore Road, Ross Beg, Dungannon, Tyrone, [redacted]	C0830	FALSE		Burst Main/Main Repair	PVC	Distribution Mains
275924	215374	Submitted to Area Manager	Networks Water	NWA3A	[redacted]	[redacted]	Unplanned Interruption	N/A		2	43	0			14/03/2024 13:47	14/03/2024 16:00	15/03/2024 09:30	14/03/2024 16:30	14/03/2024 15:40	14/03/2024 15:35	185645347	Rossmore Road	[redacted]	[redacted]	[redacted]		Dungannon	[redacted]	96.38	79	5	10	94	(UPRN: 185884607) - [redacted] Rossmore Road, Ross Beg, Dungannon, Tyrone, [redacted]	C0830	FALSE		Burst Main/Main Repair	PVC	Distribution Mains
275924	215374	Submitted to Area Manager	Networks Water	NWA3A	[redacted]	[redacted]	Unplanned Interruption	N/A		2	43	0			14/03/2024 13:47	14/03/2024 16:00	15/03/2024 09:30	14/03/2024 16:30	14/03/2024 15:40	14/03/2024 15:35	185645362	Rossmore Road	[redacted]	[redacted]	[redacted]		Dungannon	[redacted]	96.85	79	5	10	94	(UPRN: 185884607) - [redacted] Rossmore Road, Ross Beg, Dungannon, Tyrone, [redacted]	C0830	FALSE		Burst Main/Main Repair	PVC	Distribution Mains
275924	215374	Submitted to Area Manager	Networks Water	NWA3A	[redacted]	[redacted]	Unplanned Interruption	N/A		2	43	0			14/03/2024 13:47	14/03/2024 16:00	15/03/2024 09:30	14/03/2024 16:30	14/03/2024 15:40	14/03/2024 15:35	185645348	Rossmore Road	[redacted]	[redacted]	[redacted]		Dungannon	[redacted]	94.17	79	5	10	94	(UPRN: 185884607) - [redacted] Rossmore Road, Ross Beg, Dungannon, Tyrone, [redacted]	C0830	FALSE		Burst Main/Main Repair	PVC	Distribution Mains
275924	215374	Submitted to Area Manager	Networks Water	NWA3A	[redacted]	[redacted]	Unplanned Interruption	N/A		2	43	0			14/03/2024 13:47	14/03/2024 16:00	15/03/2024 09:30	14/03/2024 16:30	14/03/2024 15:40	14/03/2024 15:35	185645349	Rossmore Road	[redacted]	[redacted]	[redacted]		Dungannon	[redacted]	95.83	79	5	10	94	(UPRN: 185884607) - [redacted] Rossmore Road, Ross Beg, Dungannon, Tyrone, [redacted]	C0830	FALSE		Burst Main/Main Repair	PVC	Distribution Mains
275924	215374	Submitted to Area Manager	Networks Water	NWA3A	[redacted]	[redacted]	Unplanned Interruption	N/A		2	43	0			14/03/2024 13:47	14/03/2024 16:00	15/03/2024 09:30	14/03/2024 16:30	14/03/2024 15:40	14/03/2024 15:35	185645363	Rossmore Road	[redacted]	[redacted]	[redacted]		Dungannon	[redacted]	91.11	79	5	10	94	(UPRN: 185884607) - [redacted] Rossmore Road, Ross Beg, Dungannon, Tyrone, [redacted]	C0830	FALSE		Burst Main/Main Repair	PVC	Distribution Mains
275924	215374	Submitted to Area Manager	Networks Water	NWA3A	[redacted]	[redacted]	Unplanned Interruption	N/A		2	43	0			14/03/2024 13:47	14/03/2024 16:00	15/03/2024 09:30	14/03/2024 16:30	14/03/2024 15:40	14/03/2024 15:35	185645350	Rossmore Road	[redacted]	[redacted]	[redacted]		Dungannon	[redacted]	103.17	79	5	10	94	(UPRN: 185884607) - [redacted] Rossmore Road, Ross Beg, Dungannon, Tyrone, [redacted]	C0830	FALSE		Burst Main/Main Repair	PVC	Distribution Mains
275924	215374	Submitted to Area Manager	Networks Water	NWA3A	[redacted]	[redacted]	Unplanned Interruption	N/A		2	43	0			14/03/2024 13:47	14/03/2024 16:00	15/03/2024 09:30	14/03/2024 16:30	14/03/2024 15:40	14/03/2024 15:35	185982087	Rossmore Road	[redacted]	[redacted]	[redacted]		Dungannon	[redacted]	99.73	79	5	10	94	(UPRN: 185884607) - [redacted] Rossmore Road, Ross Beg, Dungannon, Tyrone, [redacted]	C0830	FALSE		Burst Main/Main Repair	PVC	Distribution Mains
275924	215374	Submitted to Area Manager	Networks Water	NWA3A	[redacted]	[redacted]	Unplanned Interruption	N/A		2	43	0			14/03/2024 13:47	14/03/2024 16:00	15/03/2024 09:30	14/03/2024 16:30	14/03/2024 15:40	14/03/2024 15:35	185645369	Rossmore Road	[redacted]	[redacted]	[redacted]		Dungannon	[redacted]	85.89	79	5	10	94	(UPRN: 185884607) - [redacted] Rossmore Road, Ross Beg, Dungannon, Tyrone, [redacted]	C0830	FALSE		Burst Main/Main Repair	PVC	Distribution Mains
275924	215374	Submitted to Area Manager	Networks Water	NWA3A	[redacted]	[redacted]	Unplanned Interruption	N/A		2	43	0			14/03/2024 13:47	14/03/2024 16:00	15/03/2024 09:30	14/03/2024 16:30	14/03/2024 15:40	14/03/2024 15:35	185645351	Rossmore Road	[redacted]	[redacted]	[redacted]		Dungannon	[redacted]	84.45	79	5	10	94	(UPRN: 185884607) - [redacted] Rossmore Road, Ross Beg, Dungannon, Tyrone, [redacted]	C0830	FALSE		Burst Main/Main Repair	PVC	Distribution Mains
275924	215374	Submitted to Area Manager	Networks Water	NWA3A	[redacted]	[redacted]	Unplanned Interruption	N/A		2	43	0			14/03/2024 13:47	14/03/2024 16:00	15/03/2024 09:30	14/03/2024 16:30	14/03/2024 15:40	14/03/2024 15:35	185645352	Rossmore Road	[redacted]	[redacted]	[redacted]		Dungannon	[redacted]	100.02	79	5	10	94	(UPRN: 185884607) - [redacted] Rossmore Road, Ross Beg, Dungannon, Tyrone, [redacted]	C0830	FALSE		Burst Main/Main Repair	PVC	Distribution Mains
275924	215374	Submitted to Area Manager	Networks Water	NWA3A	[redacted]	[redacted]	Unplanned Interruption	N/A		2	43	0			14/03/2024 13:47	14/03/2024 16:00	15/03/2024 09:30	14/03/2024 16:30	14/03/2024 15:40	14/03/2024 15:35	185645353	Rossmore Road	[redacted]	[redacted]	[redacted]		Dungannon	[redacted]	99.9	79	5	10	94	(UPRN: 185884607) - [redacted] Rossmore Road, Ross Beg, Dungannon, Tyrone, [redacted]	C0830	FALSE		Burst Main/Main Repair	PVC	Distribution Mains
275924	215374	Submitted to Area Manager	Networks Water	NWA3A	[redacted]	[redacted]	Unplanned Interruption	N/A		2	43	0			14/03/2024 13:47	14/03/2024 16:00	15/03/2024 09:30	14/03/2024 16:30	14/03/2024 15:40	14/03/2024 15:35	185785038	Rossmore Road	[redacted]	[redacted]	[redacted]		Dungannon	[redacted]	102.48	79	5	10	94	(UPRN: 185884607) - [redacted] Rossmore Road, Ross Beg, Dungannon, Tyrone, [redacted]	C0830	FALSE		Burst Main/Main Repair	PVC	Distribution Mains
275924	215374	Submitted to Area Manager	Networks Water	NWA3A	[redacted]	[redacted]	Unplanned Interruption	N/A		2	43	0			14/03/2024 13:47	14/03/2024 16:00	15/03/2024 09:30	14/03/2024 16:30	14/03/2024 15:40	14/03/2024 15:35	185645366	Rossmore Road	[redacted]	[redacted]	[redacted]		Dungannon	[redacted]	93.94	79	5	10	94	(UPRN: 185884607) - [redacted] Rossmore Road, Ross Beg, Dungannon, Tyrone, [redacted]	C0830	FALSE		Burst Main/Main Repair	PVC	Distribution Mains
275924	215374	Submitted to Area Manager	Networks Water	NWA3A	[redacted]	[redacted]	Unplanned Interruption	N/A		2	43	0			14/03/2024 13:47	14/03/2024 16:00	15/03/2024 09:30	14/03/2024 16:30	14/03/2024 15:40	14/03/2024 15:35	187274114	Rossmore Road	[redacted]	[redacted]	[redacted]		Dungannon	[redacted]	117.68	79	5	10	94	(UPRN: 185884607) - [redacted] Rossmore Road, Ross Beg, Dungannon, Tyrone, [redacted]	C0830	FALSE		Burst Main/Main Repair	PVC	Distribution Mains
275924	215374	Submitted to Area Manager	Networks Water	NWA3A	[redacted]	[redacted]	Unplanned Interruption	N/A		2	43	0			14/03/2024 13:47	14/03/2024 16:00	15/03/2024 09:30	14/03/2024 16:30	14/03/2024 15:40	14/03/2024 15:35	187650995	Rossmore Road	[redacted]	[redacted]	[redacted]		Dungannon	[redacted]	111.91	79	5	10	94	(UPRN: 185884607) - [redacted] Rossmore Road, Ross Beg, Dungannon, Tyrone, [redacted]	C0830	FALSE		Burst Main/Main Repair	PVC	Distribution Mains
275924	215374	Submitted to Area Manager	Networks Water	NWA3A	[redacted]	[redacted]	Unplanned Interruption	N/A		2	43	0			14/03/2024 13:47	14/03/2024 16:00	15/03/2024 09:30	14/03/2024 16:30	14/03/2024 15:40	14/03/2024 15:35	185645354	Rossmore Road	[redacted]	[redacted]	[redacted]		Dungannon	[redacted]	108.06	79	5	10	94	(UPRN: 185884607) - [redacted] Rossmore Road, Ross Beg, Dungannon, Tyrone, [redacted]	C0830	FALSE		Burst Main/Main Repair	PVC	Distribution Mains
275924	215374	Submitted to Area Manager	Networks Water	NWA3A	[redacted]	[redacted]	Unplanned Interruption	N/A		2	43	0			14/03/2024 13:47	14/03/2024 16:00	15/03/2024 09:30	14/03/2024 16:30	14/03/2024 15:40	14/03/2024 15:35	185645355	Rossmore Road	[redacted]	[redacted]	[redacted]		Dungannon	[redacted]	111.74	79	5	10	94	(UPRN: 185884607) - [redacted] Rossmore Road, Ross Beg, Dungannon, Tyrone, [redacted]	C0830	FALSE		Burst Main/Main Repair	PVC	Distribution Mains
275924	215374	Submitted to Area Manager	Networks Water	NWA3A	[redacted]	[redacted]	Unplanned Interruption	N/A		2	43	0			14/03/2024 13:47	14/03/2024 16:00	15/03/2024 09:30	14/03/2024 16:30	14/03/2024 15:40	14/03/2024 15:35	187428142	Rossmore Road	[redacted]	[redacted]	[redacted]		Dungannon	[redacted]	111.36	79	5	10	94	(UPRN: 185884607) - [redacted] Rossmore Road, Ross Beg, Dungannon, Tyrone, [redacted]	C0830	FALSE		Burst Main/Main Repair	PVC	Distribution Mains
275924	215374	Submitted to Area Manager	Networks Water	NWA3A	[redacted]	[redacted]	Unplanned Interruption	N/A		2	43	0			14/03/2024 13:47	14/03/2024 16:00	15/03/2024 09:30	14/03/2024 16:30	14/03/2024 15:40	14/03/2024 15:35	186006290	Rossmore Road	[redacted]	[redacted]	[redacted]		Dungannon	[redacted]	111.85	79	5	10	94	(UPRN: 185884607) - [redacted] Rossmore Road, Ross Beg, Dungannon, Tyrone, [redacted]	C0830	FALSE		Burst Main/Main Repair	PVC	Distribution Mains
275924	215374	Submitted to Area Manager	Networks Water	NWA3A	[redacted]	[redacted]	Unplanned Interruption	N/A		2	43	0			14/03/2024 13:47	14/03/2024 16:00	15/03/2024 09:30	14/03/2024 16:30	14/03/2024 15:40	14/03/2024 15:35	187303693	Rossmore Road	[redacted]	[redacted]	[redacted]		Dungannon	[redacted]	110.76	79	5	10	94	(UPRN: 185884607) - [redacted] Rossmore Road, Ross Beg, Dungannon, Tyrone, [redacted]	C0830	FALSE		Burst Main/Main Repair	PVC	Distribution Mains
275924	215374	Submitted to Area Manager	Networks Water	NWA3A	[redacted]	[redacted]	Unplanned Interruption	N/A		2	43	0			14/03/2024 13:47	14/03/2024 16:00	15/03/2024 09:30	14/03/2024 16:30	14/03/2024 15:40	14/03/2024 15:35	185645364	Rossmore Road	[redacted]	[redacted]	[redacted]		Dungannon	[redacted]	111.31	79	5	10	94	(UPRN: 185884607) - [redacted] Rossmore Road, Ross Beg, Dungannon, Tyrone, [redacted]	C0830	FALSE		Burst Main/Main Repair	PVC	Distribution Mains
275924	215374	Submitted to Area Manager	Networks Water	NWA3A	[redacted]	[redacted]	Unplanned Interruption	N/A		2	43	0			14/03/2024 13:47	14/03/2024 16:00	15/03/2024 09:30	14/03/2024 16:30	14/03/2024 15:40	14/03/2024 15:35	187410549	Rossmore Road	[redacted]	[redacted]	[redacted]		Dungannon	[redacted]	109.9	79	5	10	94	(UPRN: 185884607) - [redacted] Rossmore Road, Ross Beg, Dungannon, Tyrone, [redacted]	C0830	FALSE		Burst Main/Main Repair	PVC	Distribution Mains
275924	215374	Submitted to Area Manager	Networks Water	NWA3A	[redacted]	[redacted]	Unplanned Interruption	N/A		2	43	0			14/03/2024 13:47	14/03/2024 16:00	15/03/2024 09:30	14/03/2024 16:30	14/03/2024 15:40	14/03/2024 15:35	185645356	Rossmore Road	[redacted]	[redacted]	[redacted]		Dungannon	[redacted]	108.24	79	5	10	94	(UPRN: 185884607) - [redacted] Rossmore Road, Ross Beg, Dungannon, Tyrone, [redacted]	C0830	FALSE		Burst Main/Main Repair	PVC	Distribution Mains
275924	215374	Submitted to Area Manager	Networks Water	NWA3A	[redacted]	[redacted]	Unplanned Interruption	N/A		2	43	0			14/03/2024 13:47	14/03/2024 16:00	15/03/2024 09:30	14/03/2024 16:30	14/03/2024 15:40	14/03/2024 15:35	187661704	Rossmore Road	[redacted]	[redacted]	[redacted]		Dungannon	[redacted]	107.71	79	5	10	94	(UPRN: 185884607) - [redacted] Rossmore Road, Ross Beg, Dungannon, Tyrone, [redacted]	C0830	FALSE		Burst Main/Main Repair	PVC	Distribution Mains
275924	215374	Submitted to Area Manager	Networks Water	NWA3A	[redacted]	[redacted]	Unplanned Interruption	N/A		2	43	0			14/03/2024 13:47	14/03/2024 16:00	15/03/2024 09:30	14/03/2024 16:30	14/03/2024 15:40	14/03/2024 15:35	185645357	Rossmore Road	[redacted]	[redacted]	[redacted]		Dungannon	[redacted]	108.75	79	5	10	94	(UPRN: 185884607) - [redacted] Rossmore Road, Ross Beg, Dungannon, Tyrone, [redacted]	C0830	FALSE		Burst Main/Main Repair	PVC	Distribution Mains
275924	215374	Submitted to Area Manager	Networks Water	NWA3A	[redacted]	[redacted]	Unplanned Interruption	N/A		2	43	0			14/03/2024 13:47	14/03/2024 16:00	15/03/2024 09:30	14/03/2024 16:30	14/03/2024 15:40	14/03/2024 15:35	185645358	Rossmore Road	[redacted]	[redacted]	[redacted]		Dungannon	[redacted]	88.9	79	5	10	94	(UPRN: 185884607) - [redacted] Rossmore Road, Ross Beg, Dungannon, Tyrone, [redacted]	C0830	FALSE		Burst Main/Main Repair	PVC	Distribution Mains
275924	215374	Submitted to Area Manager	Networks Water	NWA3A	[redacted]	[redacted]	Unplanned Interruption	N/A		2	43	0			14/03/2024 13:47	14/03/2024 16:00	15/03/2024 09:30	14/03/2024 16:30	14/03/2024 15:40	14/03/2024 15:35	185645359	Rossmore Road	[redacted]	[redacted]	[redacted]		Dungannon	[redacted]	108.65	79	5	10	94	(UPRN: 185884607) - [redacted] Rossmore Road, Ross Beg, Dungannon, Tyrone, [redacted]	C0830	FALSE		Burst Main/Main Repair	PVC	Distribution Mains
275924	215374	Submitted to Area Manager	Networks Water	NWA3A	[redacted]	[redacted]	Unplanned Interruption	N/A		2	43	0			14/03/2024 13:47	14/03/2024 16:00	15/03/2024 09:30	14/03/2024 16:30	14/03/2024 15:40	14/03/2024 15:35	187769213	Rossmore Road	[redacted]	[redacted]	[redacted]		Dungannon	[redacted]	90.98	79	5	10	94	(UPRN: 185884607) - [redacted] Rossmore Road, Ross Beg, Dungannon, Tyrone, [redacted]	C0830	FALSE		Burst Main/Main Repair	PVC	Distribution Mains
275924	215374	Submitted to Area Manager	Networks Water	NWA3A	[redacted]	[redacted]	Unplanned Interruption	N/A		2	43	0			14/03/2024 13:47	14/03/2024 16:00	15/03/2024 09:30	14/03/2024 16:30	14/03/2024 15:40	14/03/2024 15:35	185884885	Rossmore Road	[redacted]	[redacted]	[redacted]		Dungannon	[redacted]	92.78	79	5	10	94	(UPRN: 185884607) - [redacted] Rossmore Road, Ross Beg, Dungannon, Tyrone, [redacted]	C0830	FALSE		Burst Main/Main Repair	PVC	Distribution Mains
275924	215374	Submitted to Area Manager	Networks Water	NWA3A	[redacted]	[redacted]	Unplanned Interruption	N/A		2	43	0			14/03/2024 13:47	14/03/2024 16:00	15/03/2024 09:30	14/03/2024 16:30	14/03/2024 15:40	14/03/2024 15:35	185982088	Rossmore Road	[redacted]	[redacted]	[redacted]		Dungannon	[redacted]	92.44	79	5	10	94	(UPRN: 185884607) - [redacted] Rossmore Road, Ross Beg, Dungannon, Tyrone, [redacted]	C0830	FALSE		Burst Main/Main Repair	PVC	Distribution Mains
275924	215374	Submitted to Area Manager	Networks Water	NWA3A	[redacted]	[redacted]	Unplanned Interruption	N/A		2	43	0			14/03/2024 13:47	14/03/2024 16:00	15/03/2024 09:30	14/03/2024 16:30	14/03/2024 15:40	14/03/2024 15:35	187731550	Rossmore Road	[redacted]	[redacted]	[redacted]		Dungannon	[redacted]	88.67	79	5	10	94	(UPRN: 185884607) - [redacted] Rossmore Road, Ross Beg, Dungannon, Tyrone, [redacted]	C0830	FALSE		Burst Main/Main Repair	PVC	Distribution Mains
275924	215374	Submitted to Area Manager	Networks Water	NWA3A	[redacted]	[redacted]	Unplanned Interruption	N/A		2	43	0			14/03/2024 13:47	14/03/2024 16:00	15/03/2024 09:30	14/03/2024 16:30	14/03/2024 15:40	14/03/2024 15:35	185645360	Rossmore Road	[redacted]	[redacted]	[redacted]		Dungannon	[redacted]	90.77	79	5	10	94	(UPRN: 185884607) - [redacted] Rossmore Road, Ross Beg, Dungannon, Tyrone, [redacted]	C0830	FALSE		Burst Main/Main Repair	PVC	Distribution Mains
275924	215374	Submitted to Area Manager	Networks Water	NWA3A	[redacted]	[redacted]	Unplanned Interruption	N/A		2	43	0			14/03/2024 13:47	14/03/2024 16:00	15/03/2024 09:30	14/03/2024 16:30	14/03/2024 15:40	14/03/2024 15:35	185785043	Rossmore Road	[redacted]	[redacted]	[redacted]		Dungannon	[redacted]	92.24	79	5	10	94	(UPRN: 185884607) - [redacted] Rossmore Road, Ross Beg, Dungannon, Tyrone, [redacted]	C0830	FALSE		Burst Main/Main Repair	PVC	Distribution Mains
275924	215374	Submitted to Area Manager	Networks Water	NWA3A	[redacted]	[redacted]	Unplanned Interruption	N/A		2	43	0			14/03/2024 13:47	14/03/2024 16:00	15/03/2024 09:30	14/03/2024 16:30	14/03/2024 15:40	14/03/2024 15:35	185884896	Rossmore Road	[redacted]	[redacted]	[redacted]		Dungannon	[redacted]	98.88	79	5	10	94	(UPRN: 185884607) - [redacted] Rossmore Road, Ross Beg, Dungannon, Tyrone, [redacted]	C0830	FALSE		Burst Main/Main Repair	PVC	Distribution Mains
275924	215374	Submitted to Area Manager	Networks Water	NWA3A	[redacted]	[redacted]	Unplanned Interruption	N/A		2	43	0			14/03/2024 13:47	14/03/2024 16:00	15/03/2024 09:30	14/03/2024 16:30	14/03/2024 15:40	14/03/2024 15:35	187324933	Rossmore Road	[redacted]	[redacted]	[redacted]		Dungannon	[redacted]	96.41	79	5	10	94	(UPRN: 185884607) - [redacted] Rossmore Road, Ross Beg, Dungannon, Tyrone, [redacted]	C0830	FALSE		Burst Main/Main Repair	PVC	Distribution Mains
275924	215374	Submitted to Area Manager	Networks Water	NWA3A	[redacted]	[redacted]	Unplanned Interruption	N/A		1	0	0			14/03/2024 14:30	14/03/2024 16:00	15/03/2024 09:30	14/03/2024 15:30	14/03/2024 15:40	14/03/2024 15:35	187663232	Killybrackey Heights	[redacted]	[redacted]	[redacted]		Dungannon	[redacted]	89.21	79	5	10	94	(UPRN: 185884607) - [redacted] Rossmore Road, Ross Beg, Dungannon, Tyrone, [redacted]	C0830	FALSE		Burst Main/Main Repair	PVC	Distribution Mains
275924	215374	Submitted to Area Manager	Networks Water	NWA3A	[redacted]	[redacted]	Unplanned Interruption	N/A		1	0	0			14/03/2024 14:30	14/03/2024 16:00	15/03/2024 09:30	14/03/2024 15:30	14/03/2024 15:40	14/03/2024 15:35	187663226	Killybrackey Heights	[redacted]	[redacted]	[redacted]		Dungannon	[redacted]	92.17	79	5	10	94	(UPRN: 185884607) - [redacted] Rossmore Road, Ross Beg, Dungannon, Tyrone, [redacted]	C0830	FALSE		Burst Main/Main Repair	PVC	Distribution Mains
275924	215374	Submitted to Area Manager	Networks Water	NWA3A	[redacted]	[redacted]	Unplanned Interruption	N/A		1	0	0			14/03/2024 14:30	14/03/2024 16:00	15/03/2024 09:30	14/03/2024 15:30	14/03/2024 15:40	14/03/2024 15:35	187663228	Killybrackey Heights	[redacted]	[redacted]	[redacted]		Dungannon	[redacted]	91.03	79	5	10	94	(UPRN: 185884607) - [redacted] Rossmore Road, Ross Beg, Dungannon, Tyrone, [redacted]	C0830	FALSE		Burst Main/Main Repair	PVC	Distribution Mains
275924	215374	Submitted to Area Manager	Networks Water	NWA3A	[redacted]	[redacted]	Unplanned Interruption	N/A		1	0	0			14/03/2024 14:30	14/03/2024 16:00	15/03/2024 09:30	14/03/2024 15:30	14/03/2024 15:40	14/03/2024 15:35	187663230	Killybrackey Heights	[redacted]	[redacted]	[redacted]		Dungannon	[redacted]	90.52	79	5	10	94	(UPRN: 185884607) - [redacted] Rossmore Road, Ross Beg, Dungannon, Tyrone, [redacted]	C0830	FALSE		Burst Main/Main Repair	PVC	Distribution Mains
275924	215374	Submitted to Area Manager	Networks Water	NWA3A	[redacted]	[redacted]	Unplanned Interruption	N/A		1	0	0			14/03/2024 14:30	14/03/2024 16:00	15/03/2024 09:30	14/03/2024 15:30	14/03/2024 15:40	14/03/2024 15:35	187659369	Killybrackey Heights	[redacted]	[redacted]	[redacted]		Dungannon	[redacted]	89.23	79	5	10	94	(UPRN: 185884607) - [redacted] Rossmore Road, Ross Beg, Dungannon, Tyrone, [redacted]	C0830	FALSE		Burst Main/Main Repair	PVC	Distribution Mains
275924	215374	Submitted to Area Manager	Networks Water	NWA3A	[redacted]	[redacted]	Unplanned Interruption	N/A		1	0	0			14/03/2024 14:30	14/03/2024 16:00	15/03/2024 09:30	14/03/2024 15:30	14/03/2024 15:40	14/03/2024 15:35	187574116	Killybrackey Heights	[redacted]	[redacted]	[redacted]		Dungannon	[redacted]	89.97	79	5	10	94	(UPRN: 185884607) - [redacted] Rossmore Road, Ross Beg, Dungannon, Tyrone, [redacted]	C0830	FALSE		Burst Main/Main Repair	PVC	Distribution Mains
275924	215374	Submitted to Area Manager	Networks Water	NWA3A	[redacted]	[redacted]	Unplanned Interruption	N/A		1	0	0			14/03/2024 14:30	14/03/2024 16:00	15/03/2024 09:30	14/03/2024 15:30	14/03/2024 15:40	14/03/2024 15:35	187574138	Killybrackey Heights	[redacted]	[redacted]	[redacted]		Dungannon	[redacted]	90.32	79	5	10	94	(UPRN: 185884607) - [redacted] Rossmore Road, Ross Beg, Dungannon, Tyrone, [redacted]	C0830	FALSE		Burst Main/Main Repair	PVC	Distribution Mains
275924	215374	Submitted to Area Manager	Networks Water	NWA3A	[redacted]	[redacted]	Unplanned Interruption	N/A		1	0	0			14/03/2024 14:30	14/03/2024 16:00	15/03/2024 09:30	14/03/2024 15:30	14/03/2024 15:40	14/03/2024 15:35	187574134	Killybrackey Heights	[redacted]	[redacted]	[redacted]		Dungannon	[redacted]	92.42	79	5	10	94	(UPRN: 185884607) - [redacted] Rossmore Road, Ross Beg, Dungannon, Tyrone, [redacted]	C0830	FALSE		Burst Main/Main Repair	PVC	Distribution Mains
275924	215374	Submitted to Area Manager	Networks Water	NWA3A	[redacted]	[redacted]	Unplanned Interruption	N/A		1	0	0			14/03/2024 14:30	14/03/2024 16:00	15/03/2024 09:30	14/03/2024 15:30	14/03/2024 15:40	14/03/2024 15:35	187574136	Killybrackey Heights	[redacted]	[redacted]	[redacted]		Dungannon	[redacted]	92.82	79	5	10	94	(UPRN: 185884607) - [redacted] Rossmore Road, Ross Beg, Dungannon, Tyrone, [redacted]	C0830	FALSE		Burst Main/Main Repair	PVC	Distribution Mains
275924	215374	Submitted to Area Manager	Networks Water	NWA3A	[redacted]	[redacted]	Unplanned Interruption	N/A		1	0	0			14/03/2024 14:30	14/03/2024 16:00	15/03/2024 09:30	14/03/2024 15:30	14/03/2024 15:40	14/03/2024 15:35	187574120	Killybrackey Heights	[redacted]	[redacted]	[redacted]		Dungannon	[redacted]	97.23	79	5	10	94	(UPRN: 185884607) - [redacted] Rossmore Road, Ross Beg, Dungannon, Tyrone, [redacted]	C0830	FALSE		Burst Main/Main Repair	PVC	Distribution Mains
275924	215374	Submitted to Area Manager	Networks Water	NWA3A	[redacted]	[redacted]	Unplanned Interruption	N/A		1	0	0			14/03/2024 14:30	14/03/2024 16:00	15/03/2024 09:30	14/03/2024 15:30	14/03/2024 15:40	14/03/2024 15:35	187574128	Killybrackey Heights	[redacted]	[redacted]	[redacted]		Dungannon	[redacted]	98.76	79	5	10	94	(UPRN: 185884607) - [redacted] Rossmore Road, Ross Beg, Dungannon, Tyrone, [redacted]	C0830	FALSE		Burst Main/Main Repair	PVC	Distribution Mains
275924	215374	Submitted to Area Manager	Networks Water	NWA3A	[redacted]	[redacted]	Unplanned Interruption	N/A		1	0	0			14/03/2024 14:30	14/03/2024 16:00	15/03/2024 09:30	14/03/2024 15:30	14/03/2024 15:40	14/03/2024 15:35	187574124	Killybrackey Heights	[redacted]	[redacted]	[redacted]		Dungannon	[redacted]	93.64	79	5	10	94	(UPRN: 185884607) - [redacted] Rossmore Road, Ross Beg, Dungannon, Tyrone, [redacted]	C0830	FALSE		Burst Main/Main Repair	PVC	Distribution Mains
275924	215374	Submitted to Area Manager	Networks Water	NWA3A	[redacted]	[redacted]	Unplanned Interruption	N/A		1	0	0			14/03/2024 14:30	14/03/2024 16:00	15/03/2024 09:30	14/03/2024 15:30	14/03/2024 15:40	14/03/2024 15:35	187574122	Killybrackey Heights	[redacted]	[redacted]	[redacted]		Dungannon	[redacted]	92.77	79	5	10	94	(UPRN: 185884607) - [redacted] Rossmore Road, Ross Beg, Dungannon, Tyrone, [redacted]	C0830	FALSE		Burst Main/Main Repair	PVC	Distribution Mains

Appendix G – DG3 Register Extract *(Planned Interruption Property Records – IMS Report RPT1183)*

vent Id	Interruption Id User Friendly	Interrup ion Status	Managing Function	ield Manager rea	Event Creator	DG3 C eator	Interrup ion Name	Planned Warning Type	Planned Warning Date/Time	Duration Hours	Dura ion Minutes	Duration Seconds	Planned Start Date/Time	Planned Restoration Date/Time	ctual art ate/Time	Unplanned Estimated Restoration Date/Time	Unplanned Repair Commenced Start Date/Time	Actual Supply Restored Date/Time	Wa er Sampler Contacted Date/Time	Unplanned Estima ed All Properties Re to ed Da e/Time	UPRN	PRIMARY THORFARE	BUILDING NUMBER	UILDING AME	SUB BUILDING NAME	ECONDARY HORFARE	TOWN	POSTCODE	DTM HEIGHT M	A fected A ea Property Count Residential	ffec ed rea roperty ount onResiden ial	ffec ed rea roperty ount nknown	Total Affected Properties Count	Location	Property DMA	Third Party Caused Interruption	ThirdParty	Description	Interrup ion Mains Ma e ial	In e ruption Mains Type
275908	215371	Submi ted to Area Manager	Networks Water	WA1B	[redacted]	[redacted]	Planned Interruption	Card drop	06/03/2024 10:00	5	26	0	13/03/2024 19 00	14/03/2024 03 00	13/03/2024 20:04			14/03/2024 01:30	14/03/2024 02:15		187409472	Ballylumford Road	[redacted]	[redacted]	[redacted]		Larne	[redacted]	56 38	70	5	4	79	(UPRN: 185417406) - [redacted] Browns Bay Road Ba lyprior More Larne Antrim [redacted]	C2592	FALSE		In tall New Fit ing (e g SV FH)	PVC	Distribu ion Mains
275908	215371	Submi ted to Area Manager	Networks Water	WA1B	[redacted]	[redacted]	Planned Interruption	Card drop	06/03/2024 10:00	5	26	0	13/03/2024 19 00	14/03/2024 03 00	13/03/2024 20:04			14/03/2024 01:30	14/03/2024 02:15		185416808	Ballylumford Road	[redacted]	[redacted]	[redacted]		Larne	[redacted]	52 02	70	5	4	79	(UPRN: 185417406) - [redacted] Browns Bay Road, Ba lyprior More, Larne, Antrim, [redacted]	C2592	FALSE		In tall New Fit ing (e g SV, FH)	PVC	Distribu ion Mains
275908	215371	Submi ted to Area Manager	Networks Water	WA1B	[redacted]	[redacted]	Planned Interruption	Card drop	06/03/2024 10:00	5	26	0	13/03/2024 19 00	14/03/2024 03 00	13/03/2024 20:04			14/03/2024 01:30	14/03/2024 02:15		185416809	Ballylumford Road	[redacted]	[redacted]	[redacted]		Larne	[redacted]	52 57	70	5	4	79	(UPRN: 185417406) - [redacted] Browns Bay Road, Ba lyprior More, Larne, Antrim, [redacted]	C2592	FALSE		In tall New Fit ing (e g SV, FH)	PVC	Distribu ion Mains
275908	215371	Submi ted to Area Manager	Networks Water	WA1B	[redacted]	[redacted]	Planned Interruption	Card drop	06/03/2024 10:00	5	26	0	13/03/2024 19 00	14/03/2024 03 00	13/03/2024 20:04			14/03/2024 01:30	14/03/2024 02:15		187636989	Ballylumford Road	[redacted]	[redacted]	[redacted]		Larne	[redacted]	48 48	70	5	4	79	(UPRN: 185417406) - [redacted] Browns Bay Road, Ba lyprior More, Larne, Antrim, [redacted]	C2592	FALSE		In tall New Fit ing (e g SV, FH)	PVC	Distribu ion Mains
275908	215371	Submi ted to Area Manager	Networks Water	WA1B	[redacted]	[redacted]	Planned Interruption	Card drop	06/03/2024 10:00	5	26	0	13/03/2024 19 00	14/03/2024 03 00	13/03/2024 20:04			14/03/2024 01:30	14/03/2024 02:15		185416810	Ballylumford Road	[redacted]	[redacted]	[redacted]		Larne	[redacted]	52 57	70	5	4	79	(UPRN: 185417406) - [redacted] Browns Bay Road, Ba lyprior More, Larne, Antrim, [redacted]	C2592	FALSE		In tall New Fit ing (e g SV, FH)	PVC	Distribu ion Mains
275908	215371	Submi ted to Area Manager	Networks Water	WA1B	[redacted]	[redacted]	Planned Interruption	Card drop	06/03/2024 10:00	5	26	0	13/03/2024 19 00	14/03/2024 03 00	13/03/2024 20:04			14/03/2024 01:30	14/03/2024 02:15		185416816	Ballylumford Road	[redacted]	[redacted]	[redacted]		Larne	[redacted]	60 02	70	5	4	79	(UPRN: 185417406) - [redacted] Browns Bay Road, Ba lyprior More, Larne, Antrim, [redacted]	C2592	FALSE		In tall New Fit ing (e g SV, FH)	PVC	Distribu ion Mains
275908	215371	Submi ted to Area Manager	Networks Water	WA1B	[redacted]	[redacted]	Planned Interruption	Card drop	06/03/2024 10:00	5	26	0	13/03/2024 19 00	14/03/2024 03 00	13/03/2024 20:04			14/03/2024 01:30	14/03/2024 02:15		185416811	Ballylumford Road	[redacted]	[redacted]	[redacted]		Larne	[redacted]	62 17	70	5	4	79	(UPRN: 185417406) - [redacted] Browns Bay Road, Ba lyprior More, Larne, Antrim, [redacted]	C2592	FALSE		In tall New Fit ing (e g SV, FH)	PVC	Distribu ion Mains
275908	215371	Submi ted to Area Manager	Networks Water	WA1B	[redacted]	[redacted]	Planned Interruption	Card drop	06/03/2024 10:00	5	26	0	13/03/2024 19 00	14/03/2024 03 00	13/03/2024 20:04			14/03/2024 01:30	14/03/2024 02:15		185981822	Ballylumford Road	[redacted]	[redacted]	[redacted]		Larne	[redacted]	53 51	70	5	4	79	(UPRN: 185417406) - [redacted] Browns Bay Road, Ba lyprior More, Larne, Antrim, [redacted]	C2592	FALSE		In tall New Fit ing (e g SV, FH)	PVC	Distribu ion Mains
275908	215371	Submi ted to Area Manager	Networks Water	WA1B	[redacted]	[redacted]	Planned Interruption	Card drop	06/03/2024 10:00	5	26	0	13/03/2024 19 00	14/03/2024 03 00	13/03/2024 20:04			14/03/2024 01:30	14/03/2024 02:15		185981824	Ballylumford Road	[redacted]	[redacted]	[redacted]		Larne	[redacted]	52 26	70	5	4	79	(UPRN: 185417406) - [redacted] Browns Bay Road, Ba lyprior More, Larne, Antrim, [redacted]	C2592	FALSE		In tall New Fit ing (e g SV, FH)	PVC	Distribu ion Mains
275908	215371	Submi ted to Area Manager	Networks Water	WA1B	[redacted]	[redacted]	Planned Interruption	Card drop	06/03/2024 10:00	5	26	0	13/03/2024 19 00	14/03/2024 03 00	13/03/2024 20:04			14/03/2024 01:30	14/03/2024 02:15		185416826	Ballylumford Road	[redacted]	[redacted]	[redacted]		Larne	[redacted]	51 66	70	5	4	79	(UPRN: 185417406) - [redacted] Browns Bay Road, Ba lyprior More, Larne, Antrim, [redacted]	C2592	FALSE		In tall New Fit ing (e g SV, FH)	PVC	Distribu ion Mains
275908	215371	Submi ted to Area Manager	Networks Water	WA1B	[redacted]	[redacted]	Planned Interruption	Card drop	06/03/2024 10:00	5	26	0	13/03/2024 19 00	14/03/2024 03 00	13/03/2024 20:04			14/03/2024 01:30	14/03/2024 02:15		185805219	Ballylumford Road	[redacted]	[redacted]	[redacted]		Larne	[redacted]	51 08	70	5	4	79	(UPRN: 185417406) - [redacted] Browns Bay Road, Ba lyprior More, Larne, Antrim, [redacted]	C2592	FALSE		In tall New Fit ing (e g SV, FH)	PVC	Distribu ion Mains
275908	215371	Submi ted to Area Manager	Networks Water	WA1B	[redacted]	[redacted]	Planned Interruption	Card drop	06/03/2024 10:00	5	26	0	13/03/2024 19 00	14/03/2024 03 00	13/03/2024 20:04			14/03/2024 01:30	14/03/2024 02:15		185855202	Ballylumford Road	[redacted]	[redacted]	[redacted]		Larne	[redacted]	57 75	70	5	4	79	(UPRN: 185417406) - [redacted] Browns Bay Road, Ba lyprior More, Larne, Antrim, [redacted]	C2592	FALSE		In tall New Fit ing (e g SV, FH)	PVC	Distribu ion Mains
275908	215371	Submi ted to Area Manager	Networks Water	WA1B	[redacted]	[redacted]	Planned Interruption	Card drop	06/03/2024 10:00	5	26	0	13/03/2024 19 00	14/03/2024 03 00	13/03/2024 20:04			14/03/2024 01:30	14/03/2024 02:15		187741552	Ballylumford Road	[redacted]	[redacted]	[redacted]		Larne	[redacted]	58 38	70	5	4	79	(UPRN: 185417406) - [redacted] Browns Bay Road Ba lyprior More Larne Antrim [redacted]	C2592	FALSE		In tall New Fit ing (e g SV FH)	PVC	Distribu ion Mains
275908	215371	Submi ted to Area Manager	Networks Water	WA1B	[redacted]	[redacted]	Planned Interruption	Card drop	06/03/2024 10:00	5	26	0	13/03/2024 19 00	14/03/2024 03 00	13/03/2024 20:04			14/03/2024 01:30	14/03/2024 02:15		185416813	Ballylumford Road	[redacted]	[redacted]	[redacted]		Larne	[redacted]	60 7	70	5	4	79	(UPRN: 185417406) - [redacted] Browns Bay Road Ba lyprior More Larne Antrim [redacted]	C2592	FALSE		In tall New Fit ing (e g SV FH)	PVC	Distribu ion Mains
275908	215371	Submi ted to Area Manager	Networks Water	WA1B	[redacted]	[redacted]	Planned Interruption	Card drop	06/03/2024 10:00	5	26	0	13/03/2024 19 00	14/03/2024 03 00	13/03/2024 20:04			14/03/2024 01:30	14/03/2024 02:15		185416815	Ballylumford Road	[redacted]	[redacted]	[redacted]		Larne	[redacted]	60 66	70	5	4	79	(UPRN: 185417406) - [redacted] Browns Bay Road Ba lyprior More Larne Antrim [redacted]	C2592	FALSE		In tall New Fit ing (e g SV FH)	PVC	Distribu ion Mains
275908	215371	Submi ted to Area Manager	Networks Water	WA1B	[redacted]	[redacted]	Planned Interruption	Card drop	06/03/2024 10:00	5	26	0	13/03/2024 19 00	14/03/2024 03 00	13/03/2024 20:04			14/03/2024 01:30	14/03/2024 02:15		185416817	Ballylumford Road	[redacted]	[redacted]	[redacted]		Larne	[redacted]	61 94	70	5	4	79	(UPRN: 185417406) - [redacted] Browns Bay Road Ba lyprior More Larne Antrim [redacted]	C2592	FALSE		In tall New Fit ing (e g SV FH)	PVC	Distribu ion Mains
275908	215371	Submi ted to Area Manager	Networks Water	WA1B	[redacted]	[redacted]	Planned Interruption	Card drop	06/03/2024 10:00	5	26	0	13/03/2024 19 00	14/03/2024 03 00	13/03/2024 20:04			14/03/2024 01:30	14/03/2024 02:15		185416818	Ballylumford Road	[redacted]	[redacted]	[redacted]		Larne	[redacted]	62 33	70	5	4	79	(UPRN: 185417406) - [redacted] Browns Bay Road Ba lyprior More Larne Antrim [redacted]	C2592	FALSE		In tall New Fit ing (e g SV FH)	PVC	Distribu ion Mains
275908	215371	Submi ted to Area Manager	Networks Water	WA1B	[redacted]	[redacted]	Planned Interruption	Card drop	06/03/2024 10:00	5	26	0	13/03/2024 19 00	14/03/2024 03 00	13/03/2024 20:04			14/03/2024 01:30	14/03/2024 02:15		185416828	Ballylumford Road	[redacted]	[redacted]	[redacted]		Larne	[redacted]	61 88	70	5	4	79	(UPRN: 185417406) - [redacted] Browns Bay Road Ba lyprior More Larne Antrim [redacted]	C2592	FALSE		In tall New Fit ing (e g SV FH)	PVC	Distribu ion Mains
275908	215371	Submi ted to Area Manager	Networks Water	WA1B	[redacted]	[redacted]	Planned Interruption	Card drop	06/03/2024 10:00	5	26	0	13/03/2024 19 00	14/03/2024 03 00	13/03/2024 20:04			14/03/2024 01:30	14/03/2024 02:15		185416819	Ballylumford Road	[redacted]	[redacted]	[redacted]		Larne	[redacted]	63 75	70	5	4	79	(UPRN: 185417406) - [redacted] Browns Bay Road Ba lyprior More Larne Antrim [redacted]	C2592	FALSE		In tall New Fit ing (e g SV FH)	PVC	Distribu ion Mains
275908	215371	Submi ted to Area Manager	Networks Water	WA1B	[redacted]	[redacted]	Planned Interruption	Card drop	06/03/2024 10:00	5	26	0	13/03/2024 19 00	14/03/2024 03 00	13/03/2024 20:04			14/03/2024 01:30	14/03/2024 02:15		185416820	Ballylumford Road	[redacted]	[redacted]	[redacted]		Larne	[redacted]	65 71	70	5	4	79	(UPRN: 185417406) - [redacted] Browns Bay Road Ba lyprior More Larne Antrim [redacted]	C2592	FALSE		In tall New Fit ing (e g SV FH)	PVC	Distribu ion Mains
275908	215371	Submi ted to Area Manager	Networks Water	WA1B	[redacted]	[redacted]	Planned Interruption	Card drop	06/03/2024 10:00	5	26	0	13/03/2024 19 00	14/03/2024 03 00	13/03/2024 20:04			14/03/2024 01:30	14/03/2024 02:15		185416821	Ballylumford Road	[redacted]	[redacted]	[redacted]		Larne	[redacted]	65 78	70	5	4	79	(UPRN: 185417406) - [redacted] Browns Bay Road Ba lyprior More Larne Antrim [redacted]	C2592	FALSE		In tall New Fit ing (e g SV FH)	PVC	Distribu ion Mains
275908	215371	Submi ted to Area Manager	Networks Water	WA1B	[redacted]	[redacted]	Planned Interruption	Card drop	06/03/2024 10:00	5	26	0	13/03/2024 19 00	14/03/2024 03 00	13/03/2024 20:04			14/03/2024 01:30	14/03/2024 02:15		185416822	Ballylumford Road	[redacted]	[redacted]	[redacted]		Larne	[redacted]	64 42	70	5	4	79	(UPRN: 185417406) - [redacted] Browns Bay Road Ba lyprior More Larne Antrim [redacted]	C2592	FALSE		In tall New Fit ing (e g SV FH)	PVC	Distribu ion Mains
275908	215371	Submi ted to Area Manager	Networks Water	WA1B	[redacted]	[redacted]	Planned Interruption	Card drop	06/03/2024 10:00	5	26	0	13/03/2024 19 00	14/03/2024 03 00	13/03/2024 20:04			14/03/2024 01:30	14/03/2024 02:15		185805222	Ballylumford Road	[redacted]	[redacted]	[redacted]		Larne	[redacted]	61 48	70	5	4	79	(UPRN: 185417406) - [redacted] Browns Bay Road, Ba lyprior More, Larne, Antrim, [redacted]	C2592	FALSE		In tall New Fit ing (e g SV, FH)	PVC	Distribu ion Mains
275908	215371	Submi ted to Area Manager	Networks Water	WA1B	[redacted]	[redacted]	Planned Interruption	Card drop	06/03/2024 10:00	5	26	0	13/03/2024 19 00	14/03/2024 03 00	13/03/2024 20:04			14/03/2024 01:30	14/03/2024 02:15		185416823	Ballylumford Road	[redacted]	[redacted]	[redacted]		Larne	[redacted]	67 97	70	5	4	79	(UPRN: 185417406) - [redacted] Browns Bay Road, Ba lyprior More, Larne, Antrim, [redacted]	C2592	FALSE		In tall New Fit ing (e g SV, FH)	PVC	Distribu ion Mains
275908	215371	Submi ted to Area Manager	Networks Water	WA1B	[redacted]	[redacted]	Planned Interruption	Card drop	06/03/2024 10:00	5	26	0	13/03/2024 19 00	14/03/2024 03 00	13/03/2024 20:04			14/03/2024 01:30	14/03/2024 02:15		185416824	Ballylumford Road	[redacted]	[redacted]	[redacted]		Larne	[redacted]	66 52	70	5	4	79	(UPRN: 185417406) - [redacted] Browns Bay Road, Ba lyprior More, Larne, Antrim, [redacted]	C2592	FALSE		In tall New Fit ing (e g SV, FH)	PVC	Distribu ion Mains
275908	215371	Submi ted to Area Manager	Networks Water	WA1B	[redacted]	[redacted]	Planned Interruption	Card drop	06/03/2024 10:00	5	26	0	13/03/2024 19 00	14/03/2024 03 00	13/03/2024 20:04			14/03/2024 01:30	14/03/2024 02:15		187782700	Ballylumford Road	[redacted]	[redacted]	[redacted]		Larne	[redacted]	52 28	70	5	4	79	(UPRN: 185417406) - [redacted] Browns Bay Road, Ba lyprior More, Larne, Antrim, [redacted]	C2592	FALSE		In tall New Fit ing (e g SV, FH)	PVC	Distribu ion Mains
275908	215371	Submi ted to Area Manager	Networks Water	WA1B	[redacted]	[redacted]	Planned Interruption	Card drop	06/03/2024 10:00	5	26	0	13/03/2024 19 00	14/03/2024 03 00	13/03/2024 20:04			14/03/2024 01:30	14/03/2024 02:15		185855226	Ballytober Road	[redacted]	[redacted]	[redacted]		Larne	[redacted]	58 65	70	5	4	79	(UPRN: 185417406) - [redacted] Browns Bay Road, Ba lyprior More, Larne, Antrim, [redacted]	C2591	FALSE		In tall New Fit ing (e g SV, FH)	PVC	Distribu ion Mains
275908	215371	Submi ted to Area Manager	Networks Water	WA1B	[redacted]	[redacted]	Planned Interruption	Card drop	06/03/2024 10:00	5	26	0	13/03/2024 19 00	14/03/2024 03 00	13/03/2024 20:04			14/03/2024 01:30	14/03/2024 02:15		185417368	Ballytober Road	[redacted]	[redacted]	[redacted]		Larne	[redacted]	52 67	70	5	4	79	(UPRN: 185417406) - [redacted] Browns Bay Road, Ba lyprior More, Larne, Antrim, [redacted]	C2591	FALSE		In tall New Fit ing (e g SV, FH)	PVC	Distribu ion Mains
275908	215371	Submi ted to Area Manager	Networks Water	WA1B	[redacted]	[redacted]	Planned Interruption	Card drop	06/03/2024 10:00	5	26	0	13/03/2024 19 00	14/03/2024 03 00	13/03/2024 20:04			14/03/2024 01:30	14/03/2024 02:15		185855225	Ballytober Road	[redacted]	[redacted]	[redacted]		Larne	[redacted]	51 83	70	5	4	79	(UPRN: 185417406) - [redacted] Browns Bay Road, Ba lyprior More, Larne, Antrim, [redacted]	C2591	FALSE		In tall New Fit ing (e g SV, FH)	PVC	Distribu ion Mains
275908	215371	Submi ted to Area Manager	Networks Water	WA1B	[redacted]	[redacted]	Planned Interruption	Card drop	06/03/2024 10:00	5	26	0	13/03/2024 19 00	14/03/2024 03 00	13/03/2024 20:04			14/03/2024 01:30	14/03/2024 02:15		185417367	Ballytober Road	[redacted]	[redacted]	[redacted]		Larne	[redacted]	58 79	70	5	4	79	(UPRN: 185417406) - [redacted] Browns Bay Road, Ba lyprior More, Larne, Antrim, [redacted]	C2591	FALSE		In tall New Fit ing (e g SV, FH)	PVC	Distribu ion Mains
275908	215371	Submi ted to Area Manager	Networks Water	WA1B	[redacted]	[redacted]	Planned Interruption	Card drop	06/03/2024 10:00	5	26	0	13/03/2024 19 00	14/03/2024 03 00	13/03/2024 20:04			14/03/2024 01:30	14/03/2024 02:15		185805278	Browns Bay Road	[redacted]	[redacted]	[redacted]		Larne	[redacted]	55 17	70	5	4	79	(UPRN: 185417406) - [redacted] Browns Bay Road, Ba lyprior More, Larne, Antrim, [redacted]	C2592	FALSE		In tall New Fit ing (e g SV, FH)	PVC	Distribu ion Mains
275908	215371	Submi ted to Area Manager	Networks Water	WA1B	[redacted]	[redacted]	Planned Interruption	Card drop	06/03/2024 10:00	5	26	0	13/03/2024 19 00	14/03/2024 03 00	13/03/2024 20:04			14/03/2024 01:30	14/03/2024 02:15		185417403	Browns Bay Road	[redacted]	[redacted]	[redacted]		Larne	[redacted]	51 89	70	5	4	79	(UPRN: 185417406) - [redacted] Browns Bay Road, Ba lyprior More, Larne, Antrim, [redacted]	C2592	FALSE		In tall New Fit ing (e g SV, FH)	PVC	Distribu ion Mains
275908	215371	Submi ted to Area Manager	Networks Water	WA1B	[redacted]	[redacted]	Planned Interruption	Card drop	06/03/2024 10:00	5	26	0	13/03/2024 19 00	14/03/2024 03 00	13/03/2024 20:04			14/03/2024 01:30	14/03/2024 02:15		185417402	Browns Bay Road	[redacted]	[redacted]	[redacted]		Larne	[redacted]	85 05	70	5	4	79	(UPRN: 185417406) - [redacted] Browns Bay Road Ba lyprior More Larne Antrim [redacted]	C2592	FALSE		In tall New Fit ing (e g SV FH)	PVC	Distribu ion Mains
275908	215371	Submi ted to Area Manager	Networks Water	WA1B	[redacted]	[redacted]	Planned Interruption	Card drop	06/03/2024 10:00	5	26	0	13/03/2024 19 00	14/03/2024 03 00	13/03/2024 20:04			14/03/2024 01:30	14/03/2024 02:15		185417401	Browns Bay Road	[redacted]	[redacted]	[redacted]		Larne	[redacted]	55 68	70	5	4	79	(UPRN: 185417406) - [redacted] Browns Bay Road Ba lyprior More Larne Antrim [redacted]	C2592	FALSE		In tall New Fit ing (e g SV FH)	PVC	Distribu ion Mains
275908	215371	Submi ted to Area Manager	Networks Water	WA1B	[redacted]	[redacted]	Planned Interruption	Card drop	06/03/2024 10:00	5	26	0	13/03/2024 19 00	14/03/2024 03 00	13/03/2024 20:04			14/03/2024 01:30	14/03/2024 02:15		185417400	Browns Bay Road	[redacted]	[redacted]	[redacted]		Larne	[redacted]	61 52	70	5	4	79	(UPRN: 185417406) - [redacted] Browns Bay Road Ba lyprior More Larne Antrim [redacted]	C2592	FALSE		In tall New Fit ing (e g SV FH)	PVC	Distribu ion Mains
275908	215371	Submi ted to Area Manager	Networks Water	WA1B	[redacted]	[redacted]	Planned Interruption	Card drop	06/03/2024 10:00	5	26	0	13/03/2024 19 00	14/03/2024 03 00	13/03/2024 20:04			14/03/2024 01:30	14/03/2024 02:15		185416709	Gransha Brae	[redacted]	[redacted]	[redacted]		Larne	[redacted]	48 33	70	5	4	79	(UPRN: 185417406) - [redacted] Browns Bay Road Ba lyprior More Larne Antrim [redacted]	C2592	FALSE		In tall New Fit ing (e g SV FH)	PVC	Distribu ion Mains
275908	215371	Submi ted to Area Manager	Networks Water	WA1B	[redacted]	[redacted]	Planned Interruption	Card drop	06/03/2024 10:00	5	26	0	13/03/2024 19 00	14/03/2024 03 00	13/03/2024 20:04			14/03/2024 01:30	14/03/2024 02:15		185417322	Gransha Brae	[redacted]	[redacted]	[redacted]		Larne	[redacted]	112 53	70	5	4	79	(UPRN: 185417406) - [redacted] Browns Bay Road Ba lyprior More Larne Antrim [redacted]	C2591	FALSE		In tall New Fit ing (e g SV FH)	PVC	Distribu ion Mains
275908	215371	Submi ted to Area Manager	Networks Water	WA1B	[redacted]	[redacted]	Planned Interruption	Card drop	06/03/2024 10:00	5	26	0	13/03/2024 19 00	14/03/2024 03 00	13/03/2024 20:04			14/03/2024 01:30	14/03/2024 02:15		185417323	Gransha Brae	[redacted]	[redacted]	[redacted]		Larne	[redacted]	118 74	70	5	4	79	(UPRN: 185417406) - [redacted] Browns Bay Road Ba lyprior More Larne Antrim [redacted]	C2591	FALSE		In tall New Fit ing (e g SV FH)	PVC	Distribu ion Mains
275908	215371	Submi ted to Area Manager	Networks Water	WA1B	[redacted]	[redacted]	Planned Interruption	Card drop	06/03/2024 10:00	5	26	0	13/03/2024 19 00	14/03/2024 03 00	13/03/2024 20:04			14/03/2024 01:30	14/03/2024 02:15		185416710	Gransha Brae	[redacted]	[redacted]	[redacted]		Larne	[redacted]	49 45	70	5	4	79	(UPRN: 185417406) - [redacted] Browns Bay Road Ba lyprior More Larne Antrim [redacted]	C2592	FALSE		In tall New Fit ing (e g SV FH)	PVC	Distribu ion Mains
275908	215371	Submi ted to Area Manager	Networks Water	WA1B	[redacted]	[redacted]	Planned Interruption	Card drop	06/03/2024 10:00	5	26	0	13/03/2024 19 00	14/03/2024 03 00	13/03/2024 20:04			14/03/2024 01:30	14/03/2024 02:15		185416675	Low Road	[redacted]	[redacted]	[redacted]		Larne	[redacted]	42 21	70	5	4	79	(UPRN: 185417406) - [redacted] Browns Bay Road Ba lyprior More Larne Antrim [redacted]	C2592	FALSE		In tall New Fit ing (e g SV FH)	PVC	Distribu ion Mains
275908	215371	Submi ted to Area Manager	Networks Water	WA1B	[redacted]	[redacted]	Planned Interruption	Card drop	06/03/2024 10:00	5	26	0	13/03/2024 19 00	14/03/2024 03 00	13/03/2024 20:04			14/03/2024 01:30	14/03/2024 02:15		185805370	Low Road	[redacted]	[redacted]	[redacted]		Larne	[redacted]	42 19	70	5	4	79	(UPRN: 185417406) - [redacted] Browns Bay Road Ba lyprior More Larne Antrim [redacted]	C2592	FALSE		In tall New Fit ing (e g SV FH)	PVC	Distribu ion Mains
275908	215371	Submi ted to Area Manager	Networks Water	WA1B	[redacted]	[redacted]	Planned Interruption	Card drop	06/03/2024 10:00	5	26	0	13/03/2024 19 00	14/03/2024 03 00	13/03/2024 20:04			14/03/2024 01:30	14/03/2024 02:15		185416676	Low Road	[redacted]	[redacted]	[redacted]		Larne	[redacted]	43 89	70	5	4	79	(UPRN: 185417406) - [redacted] Browns Bay Road Ba lyprior More Larne Antrim [redacted]	C2592	FALSE		In tall New Fit ing (e g SV FH)	PVC	Distribu ion Mains
275908	215371	Submi ted to Area Manager	Networks Water	WA1B	[redacted]	[redacted]	Planned Interruption	Card drop	06/03/2024 10:00	5	26	0	13/03/2024 19 00	14/03/2024 03 00	13/03/2024 20:04			14/03/2024 01:30	14/03/2024 02:15		185416677	Low Road	[redacted]	[redacted]	[redacted]		Larne	[redacted]	42 69	70	5	4	79	(UPRN: 185417406) - [redacted] Browns Bay Road Ba lyprior More Larne Antrim [redacted]	C2592	FALSE		In tall New Fit ing (e g SV FH)	PVC	Distribu ion Mains
275908	215371	Submi ted to Area Manager	Networks Water	WA1B	[redacted]	[redacted]	Planned Interruption	Card drop	06/03/2024 10:00	5	26	0	13/03/2024 19 00	14/03/2024 03 00	13/03/2024 20:04			14/03/2024 01:30	14/03/2024 02:15		185416712	Low Road	[redacted]	[redacted]	[redacted]		Larne	[redacted]	53 48	70	5	4	79	(UPRN: 185417406) - [redacted] Browns Bay Road, Ba lyprior More, Larne, Antrim, [redacted]	C2592	FALSE		In tall New Fit ing (e g SV, FH)	PVC	Distribu ion Mains
275908	215371	Submi ted to Area Manager	Networks Water	WA1B	[redacted]	[redacted]	Planned Interruption	Card drop	06/03/2024 10:00	5	26	0	13/03/2024 19 00	14/03/2024 03 00	13/03/2024 20:04			14/03/2024 01:30	14/03/2024 02:15		185416678	Low Road	[redacted]	[redacted]	[redacted]		Larne	[redacted]	42 25	70	5	4	79	(UPRN: 185417406) - [redacted] Browns Bay Road, Ba lyprior More, Larne, Antrim, [redacted]	C2592	FALSE		In tall New Fit ing (e g SV, FH)	PVC	Distribu ion Mains
275908	215371	Submi ted to Area Manager	Networks Water	WA1B	[redacted]	[redacted]	Planned Interruption	Card drop	06/03/2024 10:00	5	26	0	13/03/2024 19 00	14/03/2024 03 00	13/03/2024 20:04			14/03/2024 01:30	14/03/2024 02:15		185416680	Low Road	[redacted]	[redacted]	[redacted]		Larne	[redacted]	43 73	70	5	4	79	(UPRN: 185417406) - [redacted] Browns Bay Road, Ba lyprior More, Larne, Antrim, [redacted]	C2592	FALSE		In tall New Fit ing (e g SV, FH)	PVC	Distribu ion Mains
275908	215371	Submi ted to Area Manager	Networks Water	WA1B	[redacted]	[redacted]	Planned Interruption	Card drop	06/03/2024 10:00	5	26	0	13/03/2024 19 00	14/03/2024 03 00	13/03/2024 20:04			14/03/2024 01:30	14/03/2024 02:15		187309893	Low Road	[redacted]	[redacted]	[redacted]		Larne	[redacted]	44 3	70	5	4	79	(UPRN: 185417406) - [redacted] Browns Bay Road, Ba lyprior More, Larne, Antrim, [redacted]	C2592	FALSE		In tall New Fit ing (e g SV, FH)	PVC	Distribu ion Mains
275908	215371	Submi ted to Area Manager	Networks Water	WA1B	[redacted]	[redacted]	Planned Interruption	Card drop	06/03/2024 10:00	5	26	0	13/03/2024 19 00	14/03/2024 03 00	13/03/2024 20:04			14/03/2024 01:30	14/03/2024 02:15		185416718	Low Road	[redacted]	[redacted]	[redacted]		Larne	[redacted]	56 57	70	5	4	79	(UPRN: 185417406) - [redacted] Browns Bay Road, Ba lyprior More, Larne, Antrim, [redacted]	C2592	FALSE		In tall New Fit ing (e g SV, FH)	PVC	Distribu ion Mains
275908	215371	Submi ted to Area Manager	Networks Water	WA1B	[redacted]	[redacted]	Planned Interruption	Card drop	06/03/2024 10:00	5	26	0	13/03/2024 19 00	14/03/2024 03 00	13/03/2024 20:04			14/03/2024 01:30	14/03/2024 02:15		185416713	Low Road	[redacted]	[redacted]	[redacted]		Larne	[redacted]	68 92	70	5	4	79	(UPRN: 185417406) - [redacted] Browns Bay Road, Ba lyprior More, Larne, Antrim, [redacted]	C2592	FALSE		In tall New Fit ing (e g SV, FH)	PVC	Distribu ion Mains
275908	215371	Submi ted to Area Manager	Networks Water	WA1B	[redacted]	[redacted]	Planned Interruption	Card drop	06/03/2024 10:00	5	26	0	13/03/2024 19 00	14/03/2024 03 00	13/03/2024 20:04			14/03/2024 01:30	14/03/2024 02:15		185416714	Low Road	[redacted]	[redacted]	[redacted]		Larne	[redacted]	51 97	70	5	4	79	(UPRN: 185417406) - [redacted] Browns Bay Road, Ba lyprior More, Larne, Antrim, [redacted]	C2592	FALSE		In tall New Fit ing (e g SV, FH)	PVC	Distribu ion Mains
275908	215371	Submi ted to Area Manager	Networks Water	WA1B	[redacted]	[redacted]	Planned Interruption	Card drop	06/03/2024 10:00	5	26	0	13/03/2024 19 00	14/03/2024 03 00	13/03/2024 20:04			14/03/2024 01:30	14/03/2024 02:15		185416715	Low Road	[redacted]	[redacted]	[redacted]		Larne	[redacted]	53 75	70	5	4	79	(UPRN: 185417406) - [redacted] Browns Bay Road, Ba lyprior More, Larne, Antrim, [redacted]	C2592	FALSE		In tall New Fit ing (e g SV, FH)	PVC	Distribu ion Mains
275908	215371	Submi ted to Area Manager	Networks Water	WA1B	[redacted]	[redacted]	Planned Interruption	Card drop	06/03/2024 10:00	5	26	0	13/03/2024 19 00	14/03/2024 03 00	13/03/2024 20:04			14/03/2024 01:30	14/03/2024 02:15		185416716	Low Road	[redacted]	[redacted]	[redacted]		Larne	[redacted]	53 97	70	5	4	79	(UPRN: 185417406) - [redacted] Browns Bay Road, Ba lyprior More, Larne, Antrim, [redacted]	C2592	FALSE		In tall New Fit ing (e g SV, FH)	PVC	Distribu ion Mains
275908	215371	Submi ted to Area Manager	Networks Water	WA1B	[redacted]	[redacted]	Planned Interruption	Card drop	06/03/2024 10:00	5	26	0	13/03/2024 19 00	14/03/2024 03 00	13/03/2024 20:04			14/03/2024 01:30	14/03/2024 02:15		185416717	Low Road	[redacted]	[redacted]	[redacted]		Larne	[redacted]	52 75	70	5	4	79	(UPRN: 185417406) - [redacted] Browns Bay Road Ba lyprior More Larne Antrim [redacted]	C2592	FALSE		In tall New Fit ing (e g SV FH)	PVC	Distribu ion Mains
275908	215371	Submi ted to Area Manager	Networks Water	WA1B	[redacted]	[redacted]	Planned Interruption	Card drop	06/03/2024 10:00	5	26	0	13/03/2024 19 00	14/03/2024 03 00	13/03/2024 20:04			14/03/2024 01:30	14/03/2024 02:15		185416719	Low Road	[redacted]	[redacted]	[redacted]		Larne	[redacted]	53 66	70	5	4	79	(UPRN: 185417406) - [redacted] Browns Bay Road Ba lyprior More Larne Antrim [redacted]	C2592	FALSE		In tall New Fit ing (e g SV FH)	PVC	Distribu ion Mains
275908	215371	Submi ted to Area Manager	Networks Water	WA1B	[redacted]	[redacted]	Planned Interruption	Card drop	06/03/2024 10:00	5	26	0	13/03/2024 19 00	14/03/2024 03 00	13/03/2024 20:04			14/03/2024 01:30	14/03/2024 02:15		185416721	Low Road	[redacted]	[redacted]	[redacted]		Larne	[redacted]	50 09	70	5	4	79	(UPRN: 185417406) - [redacted] Browns Bay Road Ba lyprior More Larne Antrim [redacted]	C2592	FALSE		In tall New Fit ing (e g SV FH)	PVC	Distribu ion Mains
275908	215371	Submi ted to Area Manager	Networks Water	WA1B	[redacted]	[redacted]	Planned Interruption	Card drop	06/03/2024 10:00	5	26	0	13/03/2024 19 00	14/03/2024 03 00	13/03/2024 20:04			14/03/2024 01:30	14/03/2024 02:15		185416723	Low Road	[redacted]	[redacted]	[redacted]		Larne	[redacted]	48 88	70	5	4	79	(UPRN: 185417406) - [redacted] Browns Bay Road Ba lyprior More Larne Antrim [redacted]	C2592	FALSE		In tall New Fit ing (e g SV FH)	PVC	Distribu ion Mains
275908	215371	Submi ted to Area Manager	Networks Water	WA1B	[redacted]	[redacted]	Planned Interruption	Card drop	06/03/2024 10:00	5	26	0	13/03/2024 19 00	14/03/2024 03 00	13/03/2024 20:04			14/03/2024 01:30	14/03/2024 02:15		187358830	Low Road	[redacted]	[redacted]	[redacted]			[redacted]	48 03	70	5	4	79	(UPRN: 185417406) - [redacted] Browns Bay Road Ba lyprior More Larne Antrim [redacted]	C2592	FALSE		Install New Fit ing (e g SV FH)	PVC	Distribu ion Mains
275908	215371	Submi ted to Area Manager	Networks Water	WA1B	[redacted]	[redacted]	Planned Interruption	Card drop	06/03/2024 10:00	5	26	0	13/03/2024 19 00	14/03/2024 03 00	13/03/2024 20:04			14/03/2024 01:30	14/03/2024 02:15		185416724	Low Road	[redacted]	[redacted]	[redacted]		Larne	[redacted]	48 04	70	5	4	79	(UPRN: 185417406) - [redacted] Browns Bay Road Ba lyprior More Larne Antrim [redacted]	C2592	FALSE		In tall New Fit ing (e g SV FH)	PVC	Distribu ion Mains
275908	215371	Submi ted to Area Manager	Networks Water	WA1B	[redacted]	[redacted]	Planned Interruption	Card drop	06/03/2024 10:00	5	26	0	13/03/2024 19 00	14/03/2024 03 00	13/03/2024 20:04			14/03/2024 01:30	14/03/2024 02:15		187611531	Low Road	[redacted]	[redacted]	[redacted]		Larne	[redacted]	48 06	70	5	4	79	(UPRN: 185417406) - [redacted] Browns Bay Road Ba lyprior More Larne Antrim [redacted]	C2592	FALSE		In tall New Fit ing (e g SV FH)	PVC	Distribu ion Mains
275908	215371	Submi ted to Area Manager	Networks Water	WA1B	[redacted]	[redacted]	Planned Interruption	Card drop	06/03/2024 10:00	5	26	0	13/03/2024 19 00	14/03/2024 03 00	13/03/2024 20:04			14/03/2024 01:30	14/03/2024 02:15		187358854	Low Road	[redacted]	[redacted]	[redacted]			[redacted]	46 62	70	5	4	79	(UPRN: 185417406) - [redacted] Browns Bay Road Ba lyprior More Larne Antrim [redacted]	C2592	FALSE		Install New Fit ing (e g SV FH)	PVC	Distribu ion Mains
275908	215371	Submi ted to Area Manager	Networks Water	WA1B	[redacted]	[redacted]	Planned Interruption	Card drop	06/03/2024 10:00	5	26	0	13/03/2024 19 00	14/03/2024 03 00	13/03/2024 20:04			14/03/2024 01:30	14/03/2024 02:15		185416725	Low Road	[redacted]	[redacted]	[redacted]		Larne	[redacted]	45 76	70	5	4	79	(UPRN: 185417406) - [redacted] Browns Bay Road Ba lyprior More Larne Antrim [redacted]	C2592	FALSE		In tall New Fit ing (e g SV FH)	PVC	Distribu ion Mains
275908	215371	Submi ted to Area Manager	Networks Water	WA1B	[redacted]	[redacted]	Planned Interruption	Card drop	06/03/2024 10:00	5	26	0	13/03/2024 19 00	14/03/2024 03 00	13/03/2024 20:04			14/03/2024 01:30	14/03/2024 02:15		185416726	Low Road	[redacted]	[redacted]	[redacted]		Larne	[redacted]	48 29	70	5	4	79	(UPRN: 185417406) - [redacted] Browns Bay Road Ba lyprior More Larne Antrim [redacted]	C2592	FALSE		In tall New Fit ing (e g SV FH)	PVC	Distribu ion Mains
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Northern Ireland Water

Level of Service Methodology

DG5 Internal Flooding

Contents

1. Introduction
2. DG5 Flooding Incidents – Internal
3. DG5 Properties at Risk of Flooding – Internal

Appendix A – NI WATER DG5 Internal Flooding Register Methodology

1. Introduction

Objective and Aim

NI Water must maintain verifiable records for DG5. The aim of the records is to provide an auditable method for identifying the specific, properties which are affected by flooding, or are at risk of experiencing flooding.

As part of these records companies must maintain a DG5 register which should form a database of all properties which are at risk of experiencing sewer flooding more than once in twenty years. It will enable the identification by address of individual properties which are below the reference level and should also contain information on (for example) complaints and the results of their investigation, problems which are attributable to customers apparatus and properties which experience sewer flooding but are covered by one of the allowable exclusions.

The register must clearly identify those properties below the reference level, distinguish them from those which have flooded but are not below the reference level and provide a verifiable reason for the exclusion (e.g. flooding was a result of a blockage).

The records should include:

- date of incident;
- properties affected identified by address;
- cause of flooding (including source and reason, where known);
- action taken;
- name of persons completing the records; and
- the 'Flooding' category for reporting under DG5.

Reporting Requirements

Two main outputs are required to be produced relating to internal flooding for AIR 22:

- DG5 Annual Flooding Summary – properties internally flooded as a result of overloaded sewers and other causes.
- DG5 Properties on the ‘Flooding’ register – properties at risk of flooding due to overloaded sewers, more frequently than once in twenty years and once or twice in ten years, requiring further investigation, problem status of properties on the register, annual changes to the register.

The information relating to the above is contained in Table 3 of AIR22.

2. DG5 Internal Flooding incidents – Methodology and Procedures

Internal

Data gathering and calculation is as described below.

Calculation Process - Lines 2 to 11,15a & 17

Data gathering and calculation is as described below in the Line- Specific Methodology Statements for Table 3: Lines 2 to 11,15a & 17.

Sources/Primary Process

Lines 2 – 11, 15a & 17 Properties and flooding incidents

A download of internal flooding records was obtained from the Ellipse system for the period April 2021 to March 2022 on a month by month basis.

Investigations were carried out for each reported incident and those properties found not to be flooded after investigation, using information from the Sewer Maintenance Contractor, Flood Incident Report (FIR) Forms, Field Manager reports, modelling provided by Drainage Area Plan consultant and contacting the Customers directly, are removed. The remaining properties were recorded as Flooding Incidents.

Assumption

For the purpose of AIR22, NI Water has assumed that a single incident includes recorded complaints from the same property on the same day or within three days.

'Three days' was chosen on the basis that a noticeable volume of repeat calls tends to be received within three days of an incident occurring. There is then a much longer passing of time before calls are again received from the same locality, suggesting that the original incident has passed and that the calls relate to a different incident.

An incident of internal flooding is assumed to be where a property has been flooded internally. If two adjacent properties are flooded at the same time they are classed as two properties and two incidents.

Where a single property floods internally on two separate occasions then this is recorded as one property and two incidents.

Sources/Secondary Process

1. Wastewater Business Unit (WWBU) carries out further investigations to determine the cause of every internal flooding incident.
2. WWBU assess the information held on customer report, Flood Incident Report (FIR), along with photographic evidence and closure details provided by the contractor.
3. WWBU determine if the cause of the flooding incident was hydraulic incapacity or flooding other cause, i.e. Blocked Sewer, Equipment Failure or Collapsed Sewer. This is done by a number of methods including site visits, concentric circle surveys, Customer Field Manager reports, modelling provided by Drainage Area Plan consultant, customer interviews, field manager interviews and review of existing incident information.
4. If hydraulic incapacity is confirmed a Met Office Weather report is used to determine if the incident is as a result of severe weather (Line 4).
5. These properties were then recorded on a spread sheet under the appropriate categories for lines 2, 3, 4, 4a, 5, 6, 8, 9, 10 and 11 using the information gathered from, the Sewer Maintenance Contractor, Flooding Report Forms, Field Manager reports and contacting the Customers directly. A folder of evidence was created for all confirmed cases and this was brought to the monthly DG5 panel for approval and addition to the appropriate section of the register. At the end of the reporting year this was the data used for AIR returns.
6. The figure for line 7 was obtained by having a report run in the DG5 Oracle Database which holds the information as a DG5 layer in the GIS system.
7. The required information to populate Line 17 is extracted directly from the monthly spread sheet completed by the contractor.

3. Internal Flooding Register

Internal Flooding Process

All internal flooding incidents are subjected to a robust investigation (See Appendix A – NI Water DG5 Internal Flooding Register Methodology). An expert panel (the DG5 Panel) examines the evidence for each incident and governs the addition of properties to, and the

removal of properties from, the register. Those records that do not meet the DG5 Criteria are recorded in the 'excluded' section of the Database. All new incidents of external flooding are being investigated in a similar manner as the Internal flooding incidents.

The register is held as an Oracle database within the Corporate Asset Register – specifically as a GIS layer on CARtomap.

Methodology applied to the completion of Table 3

Lines 12-15: the numbers have been extracted from the DG5 Oracle database

Line 16: the number has been extracted from the DG5 Oracle database

Lines 22-25 and 30-33: A folder is created (within the Asset Management section of the company network) for each addition, removal or transfer of a property. The lines were populated from an analysis of these folders; the analysis was cross-checked against the minutes of the monthly DG5 Panel meetings.

Lines 26 and 34: The 'Enhanced Service Levels' element of the capex cost was obtained from the CAPTRAX system for each relevant project and aggregated. This total cost was then divided by the number of properties removed.

Mitigation

Properties protected from the risk of flooding by mitigation measures, such as non-return valves have been added to the 1 in 20 Register (unless evidence existed to allow addition to the 1 in 10 or 2 in 10 register).

All such properties are currently the subject of four Engineering Procurement appraisal projects – which seek to identify permanent solutions at the locations.

Additions to the Register and Transfers within the Register

A folder of evidence was created for all confirmed DG5 flooding properties and this was brought to the monthly DG5 panel meetings for their approval and addition to the appropriate section of the register.
Similarly transfers between the register categories (**2 in 10, 1 in 10 and 1 in 20)** are brought to the attention of the DG5 Panel at the monthly meetings for approval.

Prioritisation of capital schemes

No formal prioritisation process is applied.

All capital works projects are submitted to the NI Water Capital Investment Panel for approval before implementation.

Properties which have not flooded in the last 10 years

Properties remain on the Register which have not flooded in the past 10 years (excluding severe weather).

Appendix A NI Water DG5 Internal Flooding Register - Methodology



DG5 Internal Flooding Register - Methodology

Final v1.1

08 June 2015

1 Main Contributors	2 Aspect/Section	3 Notes
[redacted]	Draft	
[redacted]	Final	

4 Bid/Project Code: 41514657		5 Document No: 0.6		Controlled Copy No: *(in COLOUR – not black)*	
Revision No	**Date**	**Description/Amendment**	**Checked**	**Reviewed**	**6 Authorised for Issue**
0.8	26 Feb 11	Revise to include improved approach	AM	KM	
1.0	31 Mar 12	Finalised ahead of sign-off by DG5 Panel	AM	KM	MMcI
1.1	08 Jun 15	Minor revisions and new FIR form inserted	SB	DW	MMcI

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10 Introduction

10.1 Background

This document provides guidance on how the successful management of the DG5 Internal Flooding Register, within Northern Ireland (NI) Water, should be carried out. Where possible, this document complies with Ofwat and Northern Ireland Authority for Utility Regulation (NIAUR) Guidance.

10.2 Scope and Objectives

This document is owned by NI Water and describes the end-to-end business process by which a property that has experienced internal flooding is added to, and removed from the DG5 Internal Flooding Register. It will support NI Water in the development and implementation of its DG5 reporting processes and long-term management of the Register.

The purpose of this methodology is to ensure that a fully transparent, auditable process is in place for the management and maintenance of the DG5 Internal Flooding Register for NI Water in order to report to NIAUR.

11 Definitions

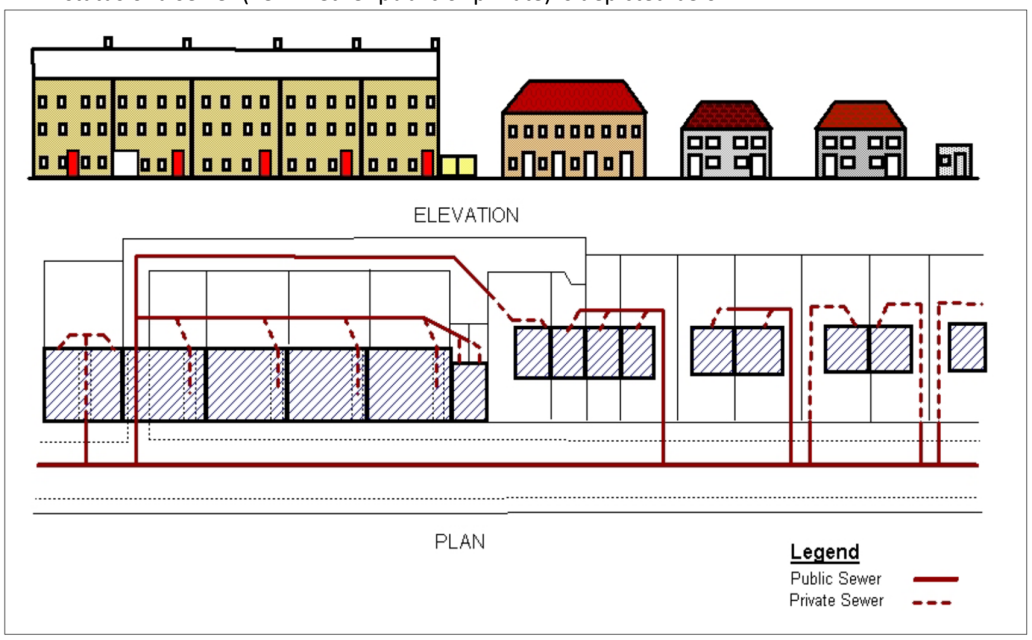
The following definitions are to be applied when recording and reporting properties and incidents held on NI Water's DG5 Internal Flooding Register.

Northern Ireland Water is only responsible for internal flooding caused by failure of the public sewerage system. This excludes private sewers, highway drainage, gullies, land drainage, and watercourses.

11.1 Legal Definitions

11.1.1 Public and Private

Northern Ireland Water is responsible for internal flooding caused by failure of the public sewerage system. The status of a sewer (i.e. whether public or private) is depicted below.



Drains; are defined as a pipe which carries waste water (sinks, baths, toilets etc.,) and trade wastes from one property to a sewer. Northern Ireland Water has responsibility for a drain up until the point of the property boundary. The length of drain within the boundary of the property lies with the property/landowner.

Public sewers; are defined as sewers serving more than a single property or, if serving a single property, sewers outside the property boundary and has been adopted, only then does responsibility lie with Northern Ireland Water.

11.1.2 Adopted and Unadopted Sewers

An adopted sewer is a sewer that is vested by NI Water and maintained at its expense. An unadopted sewer is a sewer that is either privately owned or has not yet been adopted by NI Water.

11.1.3 Third Party Responsibility

A third party incident is one where Northern Ireland Water could take action to recover costs from those responsible. Incidents due to third party attributed to hydraulic overload of the public sewerage system are significant unconsented discharges e.g. industry, leisure, domestic (swimming pool).

Where NI Water has gathered evidence that flooding of a property has occurred due to the actions of a third party, the company will attempt to recover the costs of implementing a temporary or permanent solution.

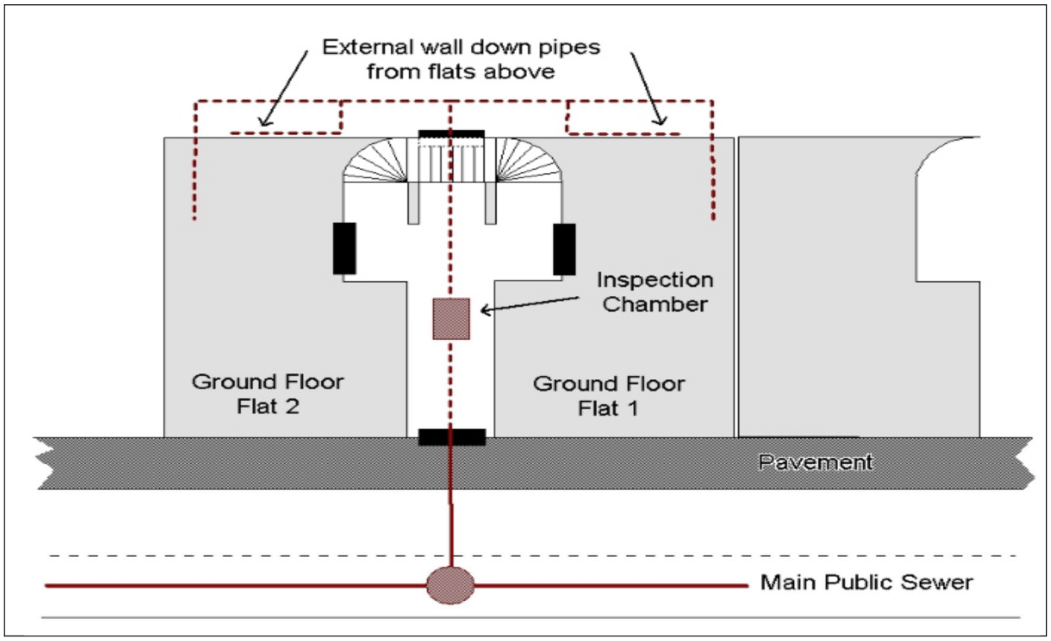
11.1.4 Basement Flooding

Customers do not have a right to connect wastewater discharges from a basement directly into the public sewerage. If a customer wishes to connect, then Northern Ireland Water will carry out investigations to confirm that by connecting the basement discharge to the public system it does not put the property at risk, because of existing conditions within the sewerage system. Written confirmation of the investigations will be given to the customer.

If a customer connects without obtaining the necessary planning permissions, then they do so at their own risk. Northern Ireland Water does not accept any responsibility for any resultant flooding incident. If basement flooding occurs due to hydraulic overload (and the customer has the right to connect) then this property will be identified as impacted by internal flooding and will be added to the appropriate register.

11.1.5 Apartment / High Rise Responsibilities

Incidents, which occur on the private drain, i.e. within the apartment block, are the responsibility of the residents. Should a flooding incident occur on the ground floor then those properties affected can be classed as internal flooding if appropriate. All other properties would be classed as external access flooding.



11.1.6 Sensitive Areas

Sensitive areas include, schools, hospitals, children play areas, nursing homes and properties of vulnerable customers. A property's sensitivity may have an impact on the prioritisation of when the solution to the internal flooding is implemented.

11.1.7 Property Classification

For reporting purposes, the following statements relate to property classification:

- Buildings that are normally occupied and used for residential, commercial, public, business or industrial purposes are included. This also includes garages that form an integral part of the property and are classed as part of the building even if the main purpose is storage.
- Buildings whose prime purpose is storage or installation of domestic appliances are not classed as occupied.
- Detached or 'linked-detached' garages i.e. those attached to a property but separated from it by an external passageway are excluded.

- A cellar forms an integral part of a building that is at least partly below ground level. Where a cellar is in regular use as part of normal living accommodation, it is termed a basement and any flooding should be reported as a normal flooding incident. Where an uninhabited cellar, i.e. one that is not used for habitation, is affected by water entering it directly (as opposed to via another part of the building) this has to be separately enumerated.

In order to ensure that the correct assessments on properties are made the following diagrams and pictures show the definitions for internal flooding against various property types;



- **Property with integral garage**
- Therefore either area flooded will be classed as internal flooding
- Flow entering the solum or living area would be classed as internal flooding and only that property recorded.



Villa – Ground Floor and 1st floor properties
Flooding to the solum of the ground floor flat will mean that only that property will be identified as suffering from internal flooding.
If the 1st floor flat is accessed via a door which enters immediately into the property and is also affected by flood water, then this will also constitute internal flooding and both will be identified as an internal flooding incident



- **Basement Property**
- A cellar that is in regular use as part of normal living accommodation is termed a basement and any flooding should be reported as a normal flooding incident.
-
-



Apartment Block
Internal Flooding would normally be contained to the ground floor flats. Individual properties affected by internal flooding will be identified and recorded. Flooding of the internal access will not be classed as internal property flooding for the remaining tenants. These will be classed as external flooding (access).



- **Semi-detached** properties with **detached** garage.
- Flooding of the garage would not be classed as internal flooding.



- **Detached** or **'linked-detached'** garages i.e. those attached to a property but separated from it by an external passageway.
- Flooding of the garage would not be classed as internal flooding.

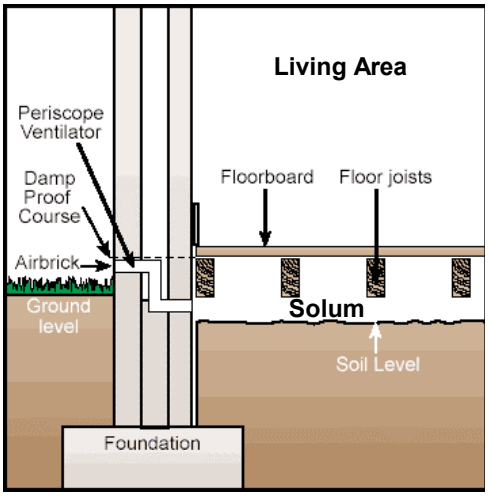
11.1.8 Temporary and Permanent Solution

A temporary solution is defined as one which does not permanently remove the risk of flooding but reduces the risk of internal flooding happening.
A permanent solution is defined as one that permanently addresses the cause of the hydraulic overload. Permanent works would enable a property to be removed from the DG5 Internal Flooding Register.
Examples of temporary and permanent solutions include;

Temporary Solutions	Permanent Solution
Fitting of anti-flood devices e.g. Non-Return Valve (NRV)	Land re-profiling
Air brick protection	Disconnect basement
Raising of Thresholds	Divert private drainage or public sewer
Bolt down inspection chambers	Isolate with private pumping station
Seal / bolt down manholes	Fill in hollow floors and cellars
Stop Logs	Flow attenuation
Issue of sandbags	Outfall protection e.g. flap valve
uPVC doors	Sewer Upsizing
Flood guards	'Right to purchase'

11.2 Internal Flooding Definition

A property can be deemed affected by an internal flooding incident when foul, combined or surface water escapes from the public sewerage system into a property and enters a building or passes below a suspended floor. The diagram below shows a cross section through a suspended floor.



For DG5 reporting purposes, internal flooding refers to buildings which are normally occupied and used for residential, public, commercial, business or industrial purposes. Buildings whose prime purpose is storage or installation of domestic appliances are excluded. Refer to Section 2.1.7 for Property Classification.

11.2.1 Restricted Toilet Use

Restricted Toilet Use (RTU) occurs where there is no internal flooding but where the customer us unable to flush their toilet without a risk of causing internal flooding of the property.

11.3 Flooding Cause Definition

11.3.1 Introduction

Flooding generally occurs through a combination of events and responsibility can lie with a number of different parties. Possible reasons for flooding can include:

- Blocked or overloaded drainage ditches, drains and sewers overflow across roads, gardens and into property.
- Hydraulic incapacity can on occasion cause sewers to backflow into a property.
- Rain can be so heavy that run-off flows overland down hills and slopes.
- Rain soaks into the ground causing groundwater levels to rise and flood.
- Broken or burst water mains (normally leading to basement flooding rather than property flooding above ground level).

Customers do not always distinguish between the various causes of flooding. In order to deal with an incident efficiently, it is imperative that call centre staff ascertain the cause and mechanism of the flooding. This ensures that appropriate action can be taken and the risks to the company minimised.
The cause of flooding will be determined by call centre staff asking the customer a set of pre-set questions from a call centre script.

11.3.2 Flooding due to Hydraulic Incapacity

A sewer can be classed as hydraulically incapable when the flow from a storm is unable to pass through it due to a permanent problem. Permanent problems are due to limitations in the physical characteristics of the network, generally the size of the sewer relative to flow and gradient. Properties affected by internal flooding due to hydraulic incapacity shall be placed within relevant flooding severity category unless there is evidence to prove that the flooding was due to 'Other Causes' or severe weather. Temporary problems are excluded and comprise of: Blockages, Collapses, Equipment Failure.

11.3.3 Other Causes Flooding

'Other Causes' are related to localised deficiencies and transient characteristics of the network. The main causes are:

- blockages
- collapses
- equipment or operational failure

These incidents are reported separately to NIAUR, but stored within the excluded section of DG5 Internal Flooding Register.

11.3.4 Blockages

A sewer blockage can be attributed to a number of factors, including siltation, fat, roots, and debris, as shown below.






For regulatory reporting, silt, fat, roots debris are all classed as a blockage. However, it is important that the actual cause of the blockage is recorded within the incident record. The response to each of these might require a different solution. For example, a persistent fat problem may require trade effluent control or persistent siltation problems may need to be added to the de-siltation programme for that area.

11.3.5 Collapsed Sewer

In the context of the indicator a collapsed sewer, is a sewer that creates a restriction or induces a blockage, e.g. fracture, deformation, intruding junction. A rising main burst is also classified as a collapse. An example of a collapse is shown below.



11.3.6 Equipment Failure

Equipment and operational failures can be attributed to power outages, inadequate maintenance regimes, a change to operating regime other than that designed for, mechanical or electrical failure.
Where a pumping station has failed then distinction must be made between network and terminal stations, as well as the criticality or size band of the station indicated.

Where a pumping station can be seen to be overrun by the incoming flows and can be shown to be operating within its design parameters then this may be an indication of severe weather or inflow from another source e.g. watercourse, tidal, ground water infiltration etc.

If the pumping station can be seen to be beaten by in coming flows in non-severe weather conditions and can be shown to be operating within its design parameters consideration should also be given to the possibility that the capacity of the pumping station has been exceeded, i.e. the sewer network now suffers hydraulic incapacity. Properties flooded internally as a result of such situations shall be classed as DG5 reportable.

Flooding caused by failure of an anti-flood device on a private connection, e.g. NRV, should be ascribed back to the underlying cause, hydraulic incapacity, and recorded as an internal flooding incident.

11.3.7 Third Party Causes

A third party incident is one where Northern Ireland Water could take action to recover costs from those responsible. These can include the discharge of material into the public system causing a blockage, or equipment failure, vandalism, network impacted by a third party e.g. a builder or other statutory utility.

It is important that causes beyond the reasonable control of the company are identified and described especially where a claim might be pursued against a third party. If permanent improvement or temporary operational works for Northern Ireland Water causes internal flooding then this must also be recorded and the reasons given as to why it happened.

The Flood Investment Planning Group is made up of Northern Ireland Water, Rivers Agency, Roads Service and Local Councils could provide a useful forum in which to establish responsibility for disputed third party flooding.

11.3.8 Increase in Demand

Increase in demand is defined by Northern Ireland Water as predicted growth, which exceeds the available headroom within the network on the trigger event.

Verified hydraulic models shall be used to identify properties at risk of flooding as a direct result of development/ growth based on the Local Area Plan. This analysis is generally an output from a Drainage Area Study (DAS). No other analysis on demand is carried out.

11.4 Flooding Class Definition

- 1 in 10; is applied to reported flooding location due to hydraulic incapacity during a rainfall event with a return period between 5 and 10 years.
- 2 in 10; is applied to reported flooding location due to hydraulic incapacity during a rainfall event with a return period of 2 in 10 years i.e. <5 years, or has actually flooded twice within a 10 year period.
- 1 in 20; is applied to reported flooding location due to hydraulic incapacity during a rainfall event with a return period between 10 and 20 years.
- Severe Weather; locations refer to a reported flooding incident with a return period greater than 20 years.
- Flooding Other Causes; is applied to reported flooding locations where the cause of flooding has been found not to be hydraulic incapacity i.e. blockages, collapses, third party or equipment failure causes.
- Removed due to Company Action; is applied to reported flooding locations where NI Water has constructed a permanent solution to remove the risk of flooding
- Removed due to Better Information; is applied to reported flooding locations where information has been obtained which proves that the cause of flooding was not due to incapacity in the sewer system.

Internal Flooding Register – Governance

11.5 General

The NI Water DG5 Internal Flooding Register contains information on internal flooding incidents caused by the hydraulic incapacity of sewers, and properties at risk of experiencing internal flooding. NI Water's Asset Management section (AMS) is the owner of the DG5 Internal Flooding Register.

The information recorded on properties affected by internal flooding or those at risk of experiencing flooding constitutes a legal register for reporting to the NIAUR. The information contained within must be verifiable and available for audit.

NIAUR requires NI Water to produce an annual DG5 Report summarising the required DG5 information. NI Water is also required to maintain a DG5 Internal Flooding Register which holds information on properties at risk of flooding, once in twenty years and once or twice in ten years due to the hydraulic incapacity of sewers. NI Water must also report on each flooding category status of each property on the register and all annual changes to the register.

The DG5 Internal Flooding Register will contain the information required to prepare Table 3, of the Annual Information Returns (AIR). This information can be accessed via the reporting function on the DG5 incident and property database.

The DG5 Internal Flooding Register has been developed from records that date back to 1990 and the increasingly robust investigation of 'live' incidents from 2008 onwards.

11.6 Governance

Maintenance of the DG5 Internal Flooding Register and AIR reporting is the responsibility of AMS and the Network Sewerage Business Unit (NSBU). Clear definition of responsibility for actions, analysis and records within the DG5 Internal Flooding Register has been entrusted to the appropriate sections within NI Water. The stakeholders and their responsibilities have been defined within this methodology.

This end-to-end DG5 business process outlined in this document, and attached in Appendix A, will ensure that responsibilities and performance measures are in place to ensure the quality of information captured and maintained is consistent at all levels through the process.

The DG5 Panel has responsibility for approval of additions to and removals from the register, while also ensuring that the reporting processes and outputs remain robust enough to meet the reporting requirements of NIAUR. Responsibilities for the internal DG5 flooding reporting process will be reviewed on an annual basis and updated accordingly.

12 Internal Flooding Register – Business Process

12.1 Notification of Internal Flooding Incident to Call Centre

All flooding incidents are recorded through a series of different source collection methods in NI Water's asset inventory management system. This happens by customers reporting flooding incidents via our Customer Call Centre. The call handlers will establish if the incident is the responsibility of NI Water and then confirm with the customer that the incident was indeed internal flooding and record it on NI Water's call management system. A Caller Log is created with the incident information then passing to NI Water's Work Control Centre staff who distributes the relevant work order to the appropriate contractor for action. This step takes no longer than one week to complete.

12.2 Initial Investigation by Network Sewerage Business Unit

The NSBU will initiate the first phase of investigations once an internal flooding incident has been reported. Evidence gathered at this initial stage is passed to Asset Performance (AP) for further investigation/verification. The process that NSBU follow is outlined below;

- Reported Internal Flooding Incidents are downloaded from the company's asset inventory management systems and interrogated, with duplicates removed.
- Information held on Customer Reports and Flooding Incident Reports are assessed along with photographic evidence and previous flooding records to ascertain if the reported incident is internal flooding.
- NSBU to carry out further investigations to determine if the cause of flooding incident was hydraulic incapacity or due to other causes, i.e. Blocked Sewer, Equipment Failure or Collapsed Sewer. This is done by a number of methods including site visits, concentric circle surveys, customer interviews and review of existing incident information. If flooding is due to other causes, the property is placed in the excluded section of the DG5 Internal Flooding Register. (Investigation methods are outlined in Section 4.2)
- If hydraulic incapacity is confirmed NSBU use a weather report to determine if the incident is as a result of severe weather. If severe weather is confirmed the property is excluded. The same weather report, along with historic records (if applicable), is used to categorise non-severe weather incidents into one of three storm return categories – 1:20, 1:10 and 2:10. In addition properties that suffer from RTU, due to hydraulic incapacity, are also recorded. (Storm Return Categories and RTU explained in Section 4.2.10 and 4.2.11).
- Once NSBU have completed the above stages a folder of evidence is compiled and forwarded to AP for further investigation/verification.

12.3 Identification of additional properties by Engineering and Procurement

In addition to the weekly flooding incident download by NSBU, Asset Delivery (AD) will forward a monthly report detailing any newly identified DG5 properties to NSBU for investigation. These potential DG5 properties will be identified from on-going Capital Works Programme (CWP) Schemes. This step is completed on a monthly basis.

12.4 Further Investigation by Asset Performance

AP receives all fully investigated and categorised DG5 Properties from NSBU on a monthly basis. AP carryout further detailed investigations to verify the investigations undertaken by NSBU. Detailed investigations can include modelling, DAS, customer questionnaires, Geographical Information System (GIS) assessments and topographical surveys.

AP carryout the following investigative process;

- Assess the history of flooding incidents at each property to confirm the NSBU flooding report. Historic assessments may include investigations of reported external incidents, extreme weather event records and incidents confirmed at adjacent properties.
- Interview the Operational Area Field Manager (FM) to confirm that the property has a history of internal flooding. AP also seeks advice from the relevant FM as to the cause of the internal flooding to aid in further investigations.
- Use GIS to assess the position of the sewer network.
- Carryout site topographical surveys of the sewer network and surrounding area.
- Interview the property owner with pre-set questions in DG5 Internal Flooding Questionnaire.

- Assess existing network model, i.e. DAS, for predicted flooding to verify if property floods under specific flooding scenarios.

Once AP has completed the above stages a report will be compiled summarising the evidence gathered including recommendations. If hydraulic incapacity is confirmed the evidence will be presented to the DG5 Panel to propose adding the property to the DG5 Register.

Note; if the cause is still unknown after the course of investigations and the internal flooding is major and frequent enough to warrant a thorough investigation, then a Project Consideration Form (PCF) will be raised to propose a feasibility study.

12.5 Approval of Additions by DG5 Panel

The DG5 Panel review the evidence brought before them and decide whether to add the property to the DG5 Internal Flooding Register. If the Panel members need more evidence, the property will be returned to AP for further investigation, and then re-submitted to the Panel for consideration. This step is completed once every month.

12.6 Update of Asset Information Records

The DG5 Panel Secretary will digitise all flooding incidents approved by the DG5 Panel onto the DG5 Layer of the company's GIS System, and update the DG5 incident and property database with the associated incident.

12.7 Initiation CWP Project by Asset Performance

The DG5 Panel forward all new additions to the DG5 Internal Flooding Register to AP to initiate the CWP process. Asset Performance cross-check existing CWP Schemes to ensure the property is not included in an on-going project. A PCF will be created to begin the CWP process.

Once the relevant section of the scheme is complete a DG5 Beneficial Use Form is sent from EP to AP, where a check against drainage area studies carried out to establish if the reported flooding has been resolved. If a resolution to the flooding is confirmed AP prepare supporting evidence to present at DG5 Panel for removal from the DG5 Internal Flooding Register

12.8 Approval of Removal by DG5 Panel

If a property is to be removed from the DG5 Internal Flooding Register due to 'Company Action', a Beneficial Use Form must be presented as evidence. If a property is to be removed due to 'Better Information' a folder of evidence must be presented outlining the reasons. This is completed once every month.

This clear and strictly controlled process will govern the movement of each property as it is investigated. Each stage described above can be seen in Appendix A.

13 Internal Flooding Register – Administration, Additions and Format

This section provides guidance on how properties at risk of flooding due to the hydraulic incapacity of sewers are categorised within the DG5 Internal Flooding Register.

13.1 Rules Governing Internal Flooding Register

The following rules govern the DG5 Internal Flooding Register and describe how a property is added and removed from the register. Property additions and transfers must follow the appropriate procedure as described below. (Property removals are discussed in section 7).

13.1.1 Additions to Internal Flooding Register

This procedure must be followed for all new flooding incidents received through the weekly NSBU download (see Section 3.2). These incidents will usually have occurred recently, although it is possible new information may cause a historic event to be reclassified.

- All properties that have been affected by internal flooding, caused by hydraulic incapacity, must be reported in the DG5 Internal Flooding Register. Properties flooded due to Other Causes (Blockage, Collapse or Equipment Failure) will be placed in the 'excluded' section of the same register and reported in Table 3 of the AIR.
- First time flooding where hydraulic Incapacity is confirmed shall be supported by weather reports and any supporting DAS data.
- A property affected by internal flooding as a result of hydraulic incapacity is categorised by the severity of the rainfall event and how often flooding has been recorded.
- All properties affected by flooding due to hydraulic incapacity will be investigated to ensure that each property or area flooded is accounted for within the appropriate category.
- For repeat incidents, supporting meteorological data will be required only if there is significant difference in the number of properties affected within the same location or if an event is deemed to be severe. An increase in frequency will affect the prioritisation and in some instances the register category of some or all properties affected.
- If the event was due to 'Severe Weather' the properties are placed in the 'excluded' section of the DG5 Internal Flooding Register.
- Where a property has flooded as a result of failure of a mitigation device, it should be reported as an equipment failure.
- Only if a basement has a 'right to connect' to the public sewerage system and has flooded can it be identified as being affected by internal flooding and categorised appropriately.
- If the flooding is shown to be outside Northern Ireland Water's responsibility (Third Party), it is excluded from the DG5 Internal Flooding Register and flagged appropriately within the exclusion register.
- Properties added due to better information are placed in the DG5 Internal Flooding Register when flooding has been identified for the first time, usually as a result of network analysis, greater local knowledge or following customer contact.

13.1.2 Sources of Information

Historic information can be used with discretion in order to support or understand the full extent of a flooding incident.

If properties are found to have historically flooded when carrying out a study within a catchment (e.g. DAS) then details should be captured and the appropriate information passed to NSBU. Supporting information would include:

- The use of verified hydraulic models.
- Site and level Information.
- Customer interviews.
- Shared information between other relevant bodies e.g. Local Authorities.

Information can also include the following:

- Flooding at a property being caused by blockages/ equipment failure rather than hydraulic incapacity. Acceptable supporting data would be date stamped CCTV, or static photographic evidence.
- Severe weather classification – data provided by weather reports
- Customer Interviews
- Flooding shown to be caused by a Third Party.

13.1.3 Investigations where Hydraulic Overload is suspected

After a flooding incident has occurred it is recorded and passed to NSBU who will carry out further investigative work to ensure that the cause, mechanism and impact of flooding is identified and analysed as soon after the event as is practicable.

This process will ensure that:

- The most appropriate action is taken.
- Where necessary a cost-effective solution proposed.
- Flooding regulatory registers are maintained with accurate and up to date information.

13.1.4 Incident Investigations

Initial site investigations will be carried out by the Contractor, co-ordinated by Networks Sewerage Section. The number of properties affected by the incident and the extent of the other external areas will be recorded regardless of the cause.

If the cause cannot be attributed to 'other causes' i.e. through CCTV, visual inspections, jetting, customer liaison or third party, then a request for further investigation will be submitted via the work order. This request will be submitted to the Contractor, by Networks Sewerage for action.

13.1.5 Network Review

This is primarily a desktop exercise to review all available information on the site and relevant assets. This will include information on the catchment through existing asset management plans, DAS, hydraulic modelling, feasibility studies, MET office data analysis, and previous cluster data if a repeat incident.

If there are known operational hot spot areas then further work on capacity checks, assessment of hydraulic model predictions and historic information will be needed. A network review will only be carried out in detail where the mechanism of flooding is unclear or where the rainfall data and impact is inconsistent with other evidence.

13.1.6 Sites Investigations

These are carried out as soon as is practicable after the incident happening. This is to ensure that the necessary evidence is gathered as close to the event as is practicable.

Site investigations may also show that there is evidence to prove that unreported flooding has occurred. Investigations are carried out using the concentric circle methodology, where investigations will start at the property affected by internal flooding and work outwards to adjacent properties in all directions. This will ensure that all affected properties are captured and recorded, allowing the full scale of the internal flooding to be realised. This approach will be repeated for every property identified for each incident.

13.1.7 Customer Questionnaires

Customers can provide useful information on the events leading up to, during and after an incident has occurred. Where appropriate a customer questionnaire should be completed.

13.1.8 Weather Reports

Weather reports will only be requested if:

- It is a first time flooding incident.
- There is low confidence in understanding the problem.
- It is a repeat incident and there is a significant disparity between the numbers of properties recorded by recurring incidents.
- Severe weather is suspected

Use of weather reports to categorise properties

- Properties will be categorised as 'excluded due to severe rainfall' if the weather report identifies the storm during which the internal flooding occurred as having a return period of greater than 1 in 20 years.
- Properties will be placed in the 1 in 20 register if the weather report identifies the storm during which the internal flooding occurred as having a return period of 1 in 20 years or less and greater than 1 in 10
- Properties will be placed in the 1 in 10 register if the weather report identifies the storm during which the internal flooding occurred as having a return period of 1 in 10 years or less and greater than 1 in 5

- Properties will be placed in the 2 in 10 register if the weather report identifies the storm during which the internal flooding occurred as having a return period of 1 in 5 years or less.

13.1.9 New Hydraulic Model Builds

If a hydraulic model does not exist and the extent of the problem cannot be determined from site investigations then a model may need to be commissioned.

Note: Prior to any major capital investment a verified hydraulic model should be used for solution development.

13.1.10 Localised Enhancements to Existing Models

Where a hydraulic model exists, then it may be necessary to carry out some localised enhancements. This process may include manhole survey, and / or dis-aggregation of the network prior to any solution development. The validity of the enhancements to the model must be checked in that area against the original verified model.

13.1.11 Conversion Factors

There are a number of situations where conversion factors must be applied when calculating the DG5 value of larger premises and buildings. Normally a single property or house is considered to constitute one DG5 property. This approach assumes the single property is of typical size, with a typical number of appliances discharging into the sewer network.

For larger premises and buildings that are likely to have more appliances a conversion factor needs to be applied for the full DG5 value of the property to be realised and prioritised accordingly. Properties that are classed as large commercial premises should have the conversion factor applied.

The DG5 value will be calculated by adding together all the loading units for all the appliances in the building and dividing this figure by 24 to produce the DG5 equivalent.

Water Fitting (See note 1)	Loading Units
WC Flushing Cistern	2
Wash Basin in a house	1.5
Wash Basin elsewhere	3
Bath (Tap nominal size 20mm)	10
Bath (Tap nominal size lager than 20mm)	22
Shower	3
Sink (Tap nominal size 15mm)	3
Sink (Tap nominal size larger than 15mm)	5
Spray Tap	0.5
Bidet	1.5
Domestic Appliance (subject to a minimum of 6 LU's per house) (See note 2)	3
Communal or commercial appliance	10
Any other water fitting or outlet (including a tap – but excluding a urinal or water softener)	3

Note 1; Reference to any fitting includes reference to any plumbing, outlet, dedicated space or planning or other provision for that fitting

Worked Example – 1 Alanbrook Road, Belfast (Thales Factory)

Water Fitting	No. per property	Loading Unit	Total
WC flushing cistern	46	2	92
Wash basin in a house	0	1.5	0
Wash basin elsewhere	0	3	0

Bath (tap nominal size 20 mm)	0	10	0
Bath (tap nominal size larger than 20 mm)	0	22	0
Shower	4	3	12
Sink (tap nominal size 15 mm)	70	3	210
Sink (tap nominal size larger than 15 mm)	0	5	0
Spray tap	0	0.5	0
Bidet	0	1.5	0
Domestic appliance	0	3	0
Communal or commercial appliance	0	10	84
Any other water fitting or outlet (including a tap – but excluding a urinal or water softener)	10	3	30
			428

DG5 Equivalent;

428 / 24 = 17.83 (rounded up to 18 units)

13.1.12 At Risk Categories

Properties are placed under one of the following three categories in the DG5 Internal Flooding Register:

1 in 10 – Frequency of flooding once in 10 years; Properties are classified here if either:

- The property has flooded once in 10 years from non-severe rainfall events
- The property has flooded from a single event shown to be less than a 10-year return period storm but more than a 5-year return period storm. (weather report required)

2 in 10 – Frequency of flooding twice in 10 years; Properties are classified here if either:

- The property has flooded more than once in 10 years from non-severe rainfall events
- The property has flooded from an event shown to be less than 5-year return period (weather report required)

1 in 20 – Frequency of flooding once in 20 years; Properties are classified here if either:

- This is the default category for all historical flooding properties coming into the register.
- The property has flooded from an event shown to be less than 20 year return period but more than 10 years. (weather report required)

Properties that have previously flooded and are included in the DG5 Internal Flooding Register but which have since not flooded in the last 10 years during a non-severe rainfall event, will be placed into the 1 in 20 category.

13.1.13 Timing Out

Properties can move between the different DG5 Internal Flooding Register categories if they have not had a repeat flooding incident over a certain period of time.

Properties at risk of flooding internally due to hydraulic incapacity will move between the flooding register categories on a 'timing out' basis, as follows:

- If a '2 in 10' property does not suffer repeat flooding, caused by hydraulic overload, within 6 years it will be downgraded to '1 in 10'.
- If a '1 in 10' property does not suffer repeat flooding, caused by hydraulic overload, within 11 years it will be downgraded to a '1 in 20'.
-

13.1.14 Restricted Toilet Use

RTU is an NIAUR AIR reporting requirement. Properties suffering from RTU are placed in one of the three categories discussed in Section 4.1.12, and recorded in the AIR.

13.2 Format of Internal Flooding Register

13.2.1 Record Data held on each Property

The records held on each property on GIS will include at least;

- Date of Incident
- Property Address – Property Number, Street Name, Town and Postcode
- Grid Reference
- Sewer Type
- Asset causing flooding incident
- Library of Documented Evidence for addition
    - Field Manager Report, GIS Map, Incident Report, Ellipse Report, Met Office Report (if applicable) and Confirmation of CCTV
- Library of Documented Evidence for removal
    - DG5 Beneficial Use Form

13.2.2 Property and Incident Unique Identifiers

A DG5 incident number is used within the DG5 Internal Flooding Register and all related registers as a unique identifier to distinguish one incident from another.

Structure of DG5 Property and Incident Numbers

- DG5P – corporate indicator that the record is a DG5 Property
- 0000001 – unique seven figure number for each DG5 Property
- DG5I – corporate indicator that the record is a DG5 Incident
- 0000002 – unique seven figure number for each DG5 Incident

The generated seven figure number is unique for both DG5 Properties and Incidents and no two DG5 Properties or Incidents can have the same seven figure combination.

All historic and new DG5 properties will be assigned a DG5 incident number, using the above format. DG5 Property and Incident numbers will be allocated in order of date added to the register.

14 Internal Flooding Register – Periodic Maintenance

Periodically the register should be assessed to check for the following:

- Properties that have been recorded as flooding but have not had a repeat flooding after 10 years will be demoted to the 1in 20 category within the register but they are not automatically removed from the register.
- Comprehensive audits of the DG5 Internal Flooding Register must be carried-out annually (or when necessary) to ensure the information held within is accurate and reflects what has happened throughout the year.

15 Internal Flooding Register – Solutions

15.1 Permanent Solutions

A permanent solution to flooding risk is dependent on the cause. Where the problem can be isolated, a quicker and cheaper permanent solution could be implemented. However, this is not always the case and a permanent solution can take several years to construct due to the solution development, design, and tendering and construction process.

In some cases the cost involved to rectify a problem will far exceed the benefits. This means that where the solution cost exceeds a certain level per property then other action may need to be considered i.e. 'Right to purchase', 'Mitigation' or 'Do nothing' alternative.

A permanent solution will enable a property to be removed from the register.

Permanent solutions can fall into one of the following categories:

- Sewer upsizing and flow attenuation; these types of solutions require a hydraulic model and extensive data collection and analysis to understand the extent of the problem and therefore identify the appropriate cost effective solution.
- Property isolation; if a single or small number of properties are shown to be affected then where the cost of other more traditional solutions far exceed the benefit then isolation may be seen as the most appropriate long term solution.
- Right to Purchase; it is not NI Water's normal policy to purchase a customer's property. However, where there is extreme and persistent flooding the most cost-effective solution may be to seek to purchase the at risk property.

15.2 Mitigation and Contingency

Mitigation will be considered where the costs of capital schemes are high or where permanent works are not planned in the short term. Where it is appropriate to do so, mitigation measures can offer customers some degree of protection against internal flooding from the public sewerage system i.e. reduce the frequency of incidents.

Mitigation measures can be applied to either persistent internal flooding or where there is severe flooding to sensitive areas. However, mitigation measures will not enable a property to be removed from the register. Where a property has flooded as a result of failure of a mitigation device it should be reported as equipment failure.

Properties with mitigating measures installed to prevent internal flooding will be defaulted into the 1:20 category of the DG5 Internal Flooding Register and will be prioritised accordingly for solution.

15.3 Prioritisation and Cost Benefit Analysis

The company does not at present carry out cost benefit analysis on DG5 projects. However to allow prioritisation of schemes the process set out below is proposed.

- Review of existing CWP to ensure DG5 related programmes of work are captured.
- Assessment of DG5 Register to develop prioritisation methodology relative to frequency and impact.
- Receipt and analysis of feasibility studies to compliment prioritisation matrix including cost details.
- Review to ensure alignment with Regulatory Reporting on AIR and CIM returns.

16 Internal Flooding Register – Removals

A DG5 Property can be removed from the DG5 Internal Flooding Register when one of the solutions described below has been implemented. This will usually be triggered by construction of a CWP Scheme, or new information on the causes of historic events. Removal of a property from the register can only be done through a formal business process and where there is a justifiable reason, supported by sound evidence.

These properties will have supporting documentation to demonstrate that the grounds for removal have been met. This evidence will be presented to the DG5 Panel for formal removal of a property. Solutions to be considered before property removal from the register can be approved include;

- Permanent Solution; where a permanent solution has been constructed and is in beneficial use, the Capital Programme Team will present a DG5 Beneficial Use Form to the DG5 Panel as a record of confirmation of the flooding scheme completion. This will include the properties to be removed and cost of solution apportioned to flood prevention. The Beneficial Use Form will be approved by the DG5 panel members, and the identified properties removed from the DG5 Internal Flooding Register. They will in turn be re-categorised as removed due to 'company action'. The property will remain in this category of the register indefinitely or until such a time as the property floods again.
- Minor Works; where there has been evidence of asset deterioration, e.g. subsidence or through third party interference and a minor asset improvement project has been completed to rectify the flooding issues. Evidence that the flooding has been resolved will come from the appropriate FM and signed off by the DG5 Panel members.
- Better information - Severe weather; the event causing the property to be on the DG5 Internal Flooding Register is confirmed to have > 20 year return period (i.e. severe) and supported by appropriate meteorological or DAS investigation data.
- Better information - Flooding due to Third party; where investment on the sewer network would not prevent a repeat internal flooding incident and NI Water does not have responsibility for the problematic sewer the properties should be removed from the DG5 Internal Flooding Register. The details should be recorded in the AIR commentary. However, if the responsibility for the problematic sewer is shared with NI Water, then the property remains on the Register.
- Better information - Flooding is due to other causes; where it can be confirmed that flooding has occurred due blockage, collapse or equipment failure details will be recorded as 'other causes' within the excluded section of DG5 Internal Flooding Register.

Note: Mitigation will not enable a property to be removed from the register.

Finally, errors can happen;

- Error, identified by Audit or Investigation. Where an error can be clearly shown to have occurred, then the property can be removed.
- Operational improvements are an unlikely explanation for justifying removal of properties from the register. Therefore any supporting data must be robust, for example, CCTV data. In the case of permanent solution then the property would be removed.

17 Annual Information Returns

The DG5 Internal Flooding Register will contain the information required to prepare Table 3, of AIR. The information required for the AIR will be retrieved from DG5 Internal Flooding Register.

- AMS will report on internal flooding incidents due to hydraulic incapacity held in the DG5 Internal Flooding Register.
- NSBU will report on internal flooding incidents due to other causes held in the 'excluded' section of the register
- AMS and NSBU will collaborate closely when compiling the AIR for internal flooding.

Appendix 1 – Asset Performance Customer Questionnaire

Northern Ireland Water
Asset Performance
Asset Management
Westland House
Old Westland Road
BELFAST
BT14 6TE

Tel: 08458 770002
Fax: 028 2566 3131
Email: [redacted]
www.NI Waterater.com

Owner/Occupier

Email
Your Ref
Our Ref
Date

Dear Sir/Madam

SEWER FLOODING AT THE ABOVE ADDRESS

I refer to your complaint of sewer flooding on, and would be very grateful if you could help me with the following pieces of information:

- Was the flooding internal (e.g. in the house or attached garage) or external?
- What was the cause of the flooding?
- Has it been resolved by Northern Ireland Water or others?
- What way was it resolved (if known)?
- If it is still occurring, when did it last happen?

Could you please respond by calling me on my mobile (xxx) or emailing me. Your assistance in this matter will be much appreciated.

Yours faithfully,

[redacted]
Asset Performance

Appendix 2– Asset Performance DG5 Determination Report

	ASSET PERFORMANCE DG5 DETERMINATION REPORT
Name and Address (Add BT Code)	
Incident Date	
Flood Type	
Rainfall Report	
Ellipse Notes	
CEMS Notes	
Customer Comments	
F.M. Comments	
Restricted Toilet Use	
Other Information Sources e.g. Pollution Reports, WWPS alarms, Captrax, Flooding Incident Reports, CCU etc.;	
GIS Assessment	
Existing Sewer Details	
Type of sewer	
Diameter (mm)	
Material Type	
Year Laid	
Sewer Location	
CCTV Carried Out	
Sewer Desilted	
Comments	
Topographical Assessment	
Possible Number of Other Properties Involved	
Flooding Mitigation (NRV's etc. ;)	
Drainage Area Catchment	
D.A.S.is Network Model Available	
DAS is there Predicted Flooding	
Summary	
Determination	
Signed	
Date	

Appendix 3– DG5 Flooding Incident Report

Northern Ireland Water – Flooding Incident Report

Work Order Ref No: ___ Name: _____

Location: _____

Date: _____ Arrival time: _____

1) Internal Flooding: ☐

Main Sewer	☐	Lateral Sewer	☐
Adjacent properties flooded	☐	Attached garages flooded	☐
Basements/Cellar flooded	☐	Restricted Toilet use	☐
Kitchen	☐	Hallway	☐
Living room	☐	Dining room	☐
Shop/integral store	☐	Downstairs bathroom	☐

2) External Flooding: ☒

Main Sewer	☒	Lateral Sewer	☐
Public road/footpath	☐	Public area	☐
Agricultural land	☐	Curtilage	☒
Detached garage flooded	☐	Detached shed or store flooded	☐

3) Comments on cause of reported incident: (Select only one category below)

Blockage	☒	Collapsed sewer	☐
Defective road gulley	☐	Defective private drain	☐
M&E equipment failure	☐	Other:	

4) Clean up operations:

Not Required ☐ Further Action Required ☐ Completed ☒

5) Previous History:

Yes ☐ No ☒ Not Aware ☐

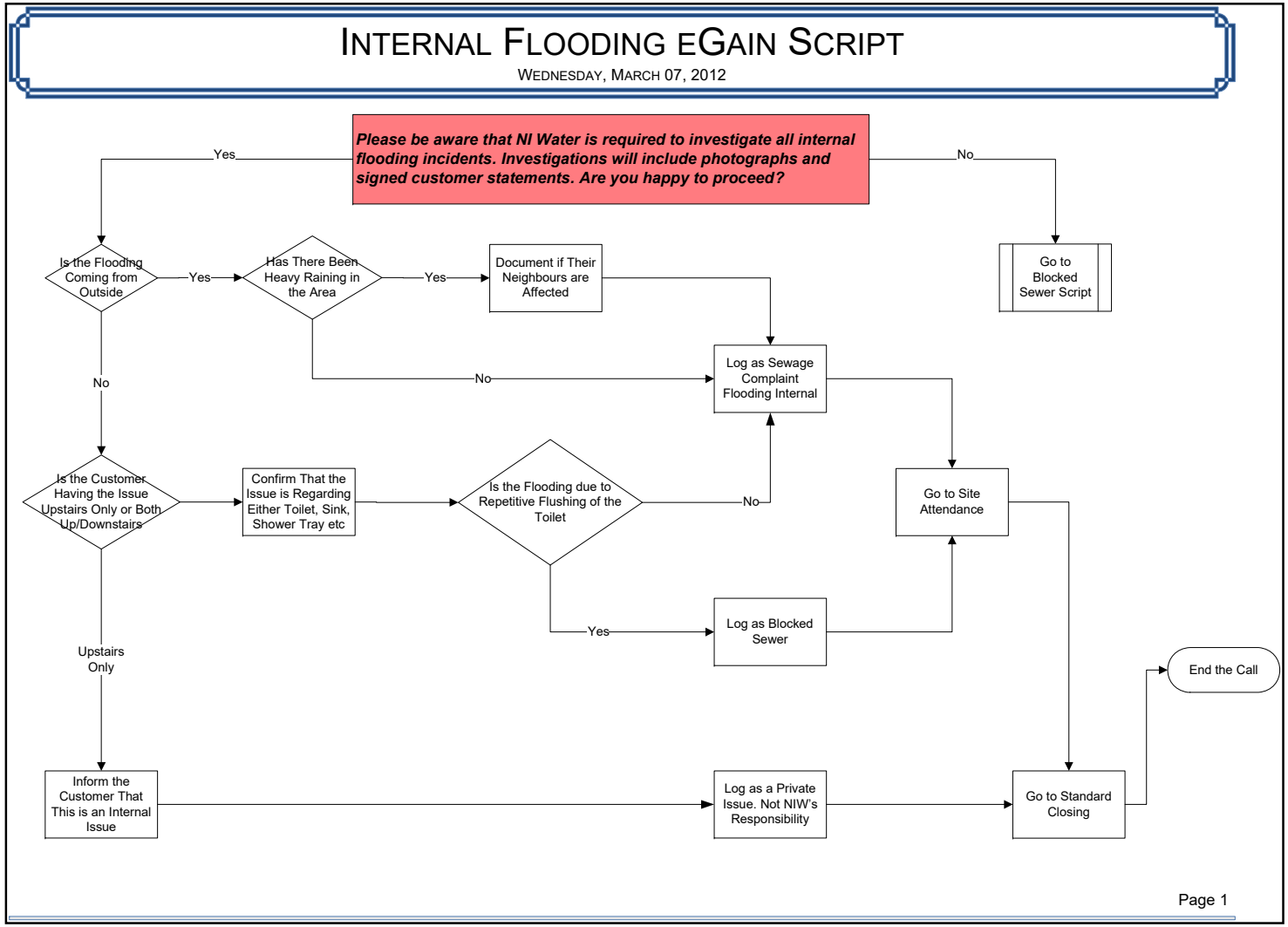
6) Weather Conditions:

Dry ☐ OR Wet ☒: Heavy ☐ Medium ☐ Light ☒

Comments: Especially for Flooded jobs or Follow on jobs

PHOTO FOR FLOODED JOBS:

Appendix 4– Call Centre DG5 Caller Script


INTERNAL FLOODING EGAIN SCRIPT
WEDNESDAY, MARCH 07, 2012
Please be aware that NI Water is required to investigate all internal flooding incidents. Investigations will include photographs and signed customer statements. Are you happy to proceed?
Yes
No
Is the Flooding Coming from Outside
Yes
Has There Been Heavy Raining in the Area
Yes
Document if Their Neighbours are Affected
Go to Blocked Sewer Script
No
No
Log as Sewage Complaint Flooding Internal
Is the Customer Having the Issue Upstairs Only or Both Up/Downstairs
Confirm That the Issue is Regarding Either Toilet, Sink, Shower Tray etc
Is the Flooding due to Repetitive Flushing of the Toilet
No
Go to Site Attendance
Yes
Log as Blocked Sewer
Upstairs Only
End the Call
Inform the Customer That This is an Internal Issue
Log as a Private Issue. Not NIW's Responsibility
Go to Standard Closing
Page 1

Copy of DG5 Register

Project No	Scheme Title	GIS CODE	Address	Post Code	Register	Scope of Work	Feasibility De	PC Year
KR444	Sydenham Upgrade (Interceptor Sewer)					Major Scheme regarding building a tunnel in East Belfast and also side works. Feasibilty on going.		PC21
		DG5P0002528	[redacted]	BT6 0AR	1 in 20			
		DG5P0002529		BT6 0AR	2 in 10			
		DG5P0003700		BT6 0EW	2 in 10			
		DG5P0003663		BT6 9FH	2 in 10			
		DG5P0003664		BT6 9FH	2 in 10			
		DG5P0003665		BT6 9FH	2 in 10			
		DG5P0002867		BT6 0FP	2 in 10			
		DG5P0003784		BT6 0FP	2 in 10			
		DG5P0003781		BT6 0FR	2 in 10			
		DG5P0003782		BT6 0FR	2 in 10			
		DG5P0003701		BT6 0LR	2 in 10			
		DG5P0003702		BT6 0LR	2 in 10			
		DG5P0003559		BT6 0ED	2 in 10			
		DG5P0003014		BT6 0ED	2 in 10			
		DG5P0003699		BT6 0JH	2 in 10			
		DG5P0003789		BT6 0EE	2 in 10			
		DG5P0003666		BT5 5FL	2 in 10			
		DG5P0003667		BT5 5FL	2 in 10			
		DG5P0000045		BT5 6DL	1 in 20			
		DG5P0003668	[redacted]	BT5 6AB	2 in 10			
KR444	Stand Alone Scheme.	DG5P0000131	[redacted]	BT4 2DU	1 in 20			
		DG5P0000191		BT4 2GJ	1 in 20			
KR442	Glenmachan Street, Belfast					Feasibility Study being carried out	29/08/2014	PC21
		DG5P0000529	[redacted]	BT9 7FJ	1 in 20			
		DG5P0000530		BT9 7FJ	1 in 20			
		DG5P0003763		BT10 0JH	2 in 10			
		DG5P0002659		BT9 7GH	2 in 10			
KR500	Glenmachan Greystown Ave/Upper Malone Road, Belfast					Feasibility Study being carried out	30/05/2014	PC15
		DG5P0000004	[redacted]	BT9 6UG	2 in 10			
		DG5P0000634		BT9 6UG	2 in 10			
		DG5P0000635		BT9 6UG	1 in 20			
		DG5P0003762		BT9 6UG	1 in 20			
		DG5P0000640		BT9 6UF	2 in 10			

Sheet2

Northern Ireland Water

Level of Service Methodology

DG6 Response to Billing Contacts

DG6 RESPONSE TO BILLING CONTACTS

Methodology and Procedures

Northern Ireland Water (NIW) has contracted out the provision of Customer Billing and Contacts (CBC) to Echo Managed Services (Echo). Echo is the provider of CBC services to NIW.

DG6 response to billing contacts (Process Summary):

1. Telephone Contact (go to step 4) or Documentation received (in Capital House)
2. Documentation opened by the Echo Payment Processing Team and passed to the NIW Customer Support Team
3. Scan and Index (documentation only which is archived after scanning)
4. Raise and allocate CMS contact type
5. Assess and Investigate
6. Update and compose response

All customer response letters are printed by NIW Contacts Team and dispatched locally. Exceptions to this include correspondence generated through DSTI which are bills (including recalculated bills) and automated recovery letters / correspondence. The process for printing and distribution of bills and other stationery on a daily basis is detailed below:

Items generated in Rapid:
Information received and updated by the agent, (which automatically updates the system), may trigger the system to create an item of stationery. The agent can also take a course of action (which will manually update the system) and may also trigger an item of stationery. This may include receipt of a leakage form from the customer, Data Protection Letter, Transfer of Responsibility etc. All such contacts are recorded as closed as at the date of dispatch.

The BSA team, within Echo, reconciles numbers of bills, letters and forms and sends all relevant items of stationery created the previous day through to DSTI for printing. These are signed-off, printed, enclosed and prepared for pick-up by TNT. Currently only bills, recovery notices and letters are handled this way. For DG6 reporting purposes the date of resolution of the item or date of the substantive response is used as the closure date.

Definitions

A billing contact covers any communication from a customer or their representative (on receipt of written permission from the customer as per data protection) regarding a customer account which requires a response or an action by NIW and does not constitute a written complaint. A customer's representative may be a solicitor, Citizens Advice Bureau, local MLA, or stakeholder representative, e.g. Ulster Farmers Union or CCNI.

Billing contacts can be received by telephone, in writing, by e-mail, by personal visit or written on a piece of company correspondence, for example a bill which is returned to NIW. Offensive or abusive written contacts are not included.

A billing contact not received in writing is a DG6 event. A written communication, however, may be classified as a DG6 or DG7 event. Where the content or tone of written communication indicates an element of dissatisfaction, however mildly worded or unjustified, it should be classified as a written complaint and reported under DG7.

Billing contacts include calls that are made to pay a bill as this will result in an action being taken on the customer's account.

Emai: When an e-mailed or hand delivered contact is received after 16:30 it will be scanned, logged and indexed on the next working day. The date of receipt recorded will match the actual date of receipt.

Emails which can be sent at any time, that are received outside or normal operating hours shall record the receipt date as the date it was delivered to the company. For example, if an email is received on a Saturday this is recorded as day 0. The next working day (Monday) would be counted as day 1. If an email is received on a Sunday, then this is recorded as date of receipt – day 0 and Monday as day 1.

Exclusions

A query relating to billing for domestic customers, including the provision of meters is not a DG6 contact, as domestic customers are not billed by NIW.

For reporting purposes, other exclusions are:

- Written complaints (these are handled as DG7);
- Correspondence from banks re direct debits (clarified with NIAUR as excludable);
- Contacts logged in error;
- Freedom of Information requests;
- Calls relating to septic tanks and septic tank payments (these are non-appointed);
- Calls relating to new connections, not yet completed; and
- Copy correspondence from and to NIW personnel.
- Correspondence relating to payment processing, e.g. BACS notifications, payment giros and remittance advice notes.

Multiple Accounts

NIW received clarification from the Regulator as to how contacts from customers with multiple accounts should be logged, so as not to over or understate the DG6 position.

Therefore, for reporting purposes, a DG6 contact received; by a customer holding multiple accounts with NIW that is requesting an update to their standing account details will be recorded as 1 DG6 event on 1 account and as a non-reportable event on the remaining accounts.

End of year (contacts not dealt with at end of year)

As per NIAUR guidance, if a billing contact is not resolved by the time the year-end report is run, the contact is included in the total number of billing contacts received for the year in which it is received.

The contacts which are open at end of year are included in the reported figures for the number dealt with within 5 working days. This is based on the assumption that a holding response has been issued within 5 working days and that the reported date of closure will, at the point of final resolution, be backdated to the date on which the holding response was issued.

It was later verified that, per the assumption above, each of those contacts still open at yearend were closed in line with the aforementioned methodology with a reported closure date within 5 working days of receipt.

Further, the response time for any open billing contacts received within the reporting year is reported to be within 5 working days based on the assumption that a substantive holding

response has been issued for each by working day 5. On resolution of the billing contact, these billing contacts will be closed back to the date of the holding response. A sample of 70 of the 355 open DG6 contacts were checked to see if they had a holding letter issued on or before working day 5 and 100% of the 70 sampled did.

Auditing

Internal Audits – This process falls within Echo's Quality Management system and is audited several times a year under ISO9001/2000.

Performance and the achievement of Billing enquiries are recorded as per the Contact Handling Expected Service Levels which are measured monthly in accordance with *Contract Schedule 2.2*. Detailed monthly monitoring reports of actual performance are generated by Echo within CorVu and presented in the Monthly Business Review Pack (MBRP) to NIW within 5 working days of the end of each month covering lines 1.1.1 to 1.1.9 in accordance with schedule 8.4.

Validation of DG6 figures provided by Echo are carried out monthly by NIW in accordance with *Contract Schedule 2.2* and recorded in the "NIW Response to the Monthly Business Review Pack" document which is published for comment and review. Any discrepancies on monthly DG6 performance are raised with Echo and escalated.

Echo regularly performs quality reviews against contacts received to ensure contacts are dealt with correctly. Although no documentation is made available to NIW, regular reviews are carried out by Team Managers within Echo, including:

- Weekly call listening;
- Monthly scoring based on call listening and feedback to individual agents;
- Coaching and feedback; and
- Daily monitoring of all billing contacts with team feedback when necessary.

CSD Services MI and Data Team performs a call listening exercise on a monthly basis. Each month a random selection from the total calls received is made. This selection includes both billing and operational calls. Billing calls are assessed for:

- For accuracy;
- To determine if memo contents are clear and precise;
- To ensure the conversation is accurately recorded on Rapid; and
- To ensure correct use of CMS code.

Any findings are reported back to Echo management through the Response to the MBRP.

An end to end process review is carried out by internal audit.

Sources of information

System used

Telephone calls are integrated Avaya, Cirrus and High Volume Call Handling (HVCH) software, depending on the option chosen. Calls can be automatically routed to appropriately skilled agents ensuring a quality response to the customer, at first point of contact Calls are recorded on Verint WFO.

Written correspondence is date stamped at point of receipt by Echo (unless received after 16:30), scanned on a (Kodak i 620 scanner) and indexed. This safeguards security and minimises administration. Once correspondence is scanned it is indexed and batched with an allocated batch number. The scanned image is then available to Rapid Users.

All contacts received should be recorded on Rapid. Reports from CorVu are generated by Echo, validated by NIW, and are used to report on DG6 performance.

Actual data

Actual data is extracted from the billing system RapidXtra using CorVu. CorVu 'DG6 Received QRY (Live)' is used to calculate the total number of DG6 contacts received (table 4, line 1) and to calculate the DG6 closed performance (table 4, lines 2-5). DG6 data analysis is produced monthly and re-run for the entire reporting year, providing the necessary information essential for the Director General's reporting requirements.

Sampling

Actual data is used to report DG6 performance (table 4, lines 1-5). Sampling is only used by NIW for data quality purposes and to provide comfort around the assumption that DG6 contacts open at year end will be closed back to a holding letter issued on or before working day 5.

Reliability

All data is taken from the main billing system to ensure it is reliable and accurate.

Responses

This is defined as a response to a billing contact which may be by telephone, written correspondence or personal visit. Responses will provide the following:

An explanation of NIW's relevant policy or procedure and indicates why, in NIW's opinion, no further action on the customers billing contact is required; or

Informs the customer when action on his/her account will be taken if action cannot be taken immediately due to circumstances beyond NIW's control, for example customer needs to obtain clearance from third party, such as a landlord.

Whichever type of response is dispatched it must substantively answer all points raised by the customer and be recorded and date stamped.

Use of telephone

The telephone is the company's preferred method of responding to a billing enquiry. All DG6 related telephone calls should result in a CMS memo being raised and coded by the agent according to the individual enquiry. An audit trail of the response will be recorded on the billing system (Rapid) as a memo with a CMS type. A full record of the actual conversation and its outcomes is held on Call Media. A CMS is created on Rapid and contains information including:

- CMS type;
- Customer name;
- Customer address;
- Telephone contact;
- Query details; and
- Action required.

Use of letters

Letters are only used when it is not possible to deal with the customer by telephone, when a written reply has been requested by the customer and when it is deemed more appropriate by the agent. Telephone calls not dealt with at first point of contact are dealt with by the

Echo CRC Workflow department. A CMS is created on Rapid and contains information including:

- CMS type;
- Customer name;
- Customer address;
- Telephone contact;
- Query details; and
- Action required.

Holding letters are sometimes used but are customised by the agent. They are held within Rapid and are posted directly to the customer and not through DSTI.

Use of personal visit

If a DG6 telephone contact requires a personal visit, (e.g. a meter query team site visit), the agent will raise a CMS contact. This will be transferred to the Echo CRC Workflow Team who takes ownership for resolution and closure of the contact. The Echo CRC Workflow Team agent will send a holding letter to the customer once the visit request has been raised. It is this date/time of this letter that is used for closure.

Response time

This is the number of working days between receipt of a contact by NIW up to and including the day of despatch of a response. For the purpose of this calculation, the day of receipt; provided it is a working day; is counted as day zero and the next working day as day one.

Emails, which can be sent at any time, that are received outside or normal operating hours shall record the receipt date as the date it was delivered to the company. For example, if an email is received on a Saturday this is recorded as day 0. The next working day (Monday) would be counted as day 1. If an email is received on a Sunday, then this is recorded as date of receipt – day 0 and Monday as day 1.

CCNI

Written billing contacts received via the Consumer Council for Northern Ireland (CCNI) office on a customer’s behalf are included.

Holding reply

This is defined as a response to a billing contact which advises the customer that NIW will need to undertake additional research or other actions before being able to respond to the customer's contact. A holding reply is counted as a substantive response if it informs the customer what further action needs to be taken to respond to the query and includes a date by which investigations or further actions will be complete and by when the customer will receive a further communication from NIW.

A holding reply will close a contact for DG6 reporting purposes but not for NIW until all actions have been taken. NIW provides a reply within 5 working days of the customer contact and a further holding letter is sent, if there is a delay in finding a resolution. The company will include the number of days in which they will contact the customer again. Enquiries and follow up questions will not be counted as a DG6 contact.

Other Issues

Please refer to DG6 Company Commentary.

Northern Ireland Water

Level of Service Methodology

DG7 Response to Written Complaints

DG7 METHODOLOGY 2023/24

Methodology and Procedures

Northern Ireland Water (NIW) has contracted out the provision of Customer Billing and Contacts (CBC) to Echo Managed Services. Echo Managed Services (Echo) are the provider of CBC services to NIW. Written complaints are dealt with in-house by the NIW Intelligent Operations function. Customer Support Agents within the Complaints & Executive Mail Team scan, log & index documentation whilst Customer Service Officers within the team case-manage and respond to the written complaints.

The following high level process steps are followed:

- Whitemail received (in Capital House);
- Whitemail opened by Payment Processing (Echo) who separate payments & non-customer documentation before scanning the remainder and creating a batch on RapidXtra, which is then indexed by Customer Support team in Westland;
- Emails printed and sifted into DG6, DG7 and non-reportable categories by Customer Support;
- documentation date stamped, scanned, logged & indexed by Customer Support;
- CMS contact raised to the NAS Account Services inbox in RapidXtra (Customer Billing & Contact Management System) and case raised in OEBPM (upgraded version of the BPM solution);
- cases allocated to Customer Service Officers;
- Customer Service Officers assess, investigate and case-manage the complaint as appropriate;
- request for information and/or action sent to relevant part of the business; then
- review information provided by business, update accounts, draft & issue response.

Allocation to DG7

Written complaints are recognised from all other correspondence by following the definition of a written complaint as set out in the Reporting Requirements and Definitions Manual. All incoming written correspondence is passed to Customer Support. It is then sifted and categorised as DG6, DG7 or non-reportable according to the Utility Regulator's definitions. Following that, it is date-stamped, scanned, logged and indexed by Customer Support.

The reported response times for all written complaints are derived from the RapidXtra database. All written complaints, with the exception of exclusion categories detailed herein, are included in this total.

Definitions

A DG7 complaint is defined as any written communication from a customer or customers' representative (e.g. Citizens' Advice Bureau, solicitor), alleging action or inaction, or service or lack of a service on the company's part or that of its agent or contractor has fallen below the expectation of the customer – even if written in mild and friendly terms. This includes any expression of annoyance or dissatisfaction by the customer, or disagreement with the company.

Written complaints include letters, e-mails and faxes.

Also included are:

- second or subsequent complaints;
- general complaints;
- complaints that may seem unfair or frivolous;
- complaints received by Consumer Council for Northern Ireland; and

- complaints written on returned Company letters or stationery (e.g. bills).

Should the Company receive a petition, it is classed as a DG7 contact and the Company will respond only to the customer who has sent in the petition. This will be classed as one complaint although the complaint and the response letter will be archived against the account of each customer that has signed the petition where practical.

Exclusions

The following are excluded from DG7:

- cheques and stubs;
- written DG6 billing queries;
- all other Company mail;
- complaints that are sent anonymously;
- complaints that are offensive or abusive;
- complaints referring to non-appointed activities;
- complaints returned alongside customer satisfaction surveys;
- complaints not about the services and functions of the Company (e.g. complaints about executive salaries, advertising campaigns);
- complaints about the activities of other utilities (for example signage around trenches);
- complaints about recreational and amenity activities not defined as duties imposed by the Water and Sewerage Order 2006; and
- Public liability claims (although any related complaint should be included as normal).

End of Year (contacts not dealt with by end of year)

As per UR guidance, if a complaint is not resolved by the time the year-end report is run, the complaint is included in the total number of complaints received for the year in which it is received.

Further, the response time for any open complaints received within the reporting year is reported to be within 10 working days based on the assumption that a substantive holding response has been issued for each by working day 10. On resolution of the complaint, these complaints will be closed back to the date of the holding response.

Auditing

Each complaint also undergoes a series of quality assurance checks. The first is carried out by the Customer Service Officer who has been allocated the case.

They check that the case has been:

- correctly categorised as DG7;
- coded using an appropriate CMS code; and
- logged to the correct account(s).

The Customer Service Officer verifies that the information received from within the business is suitable to use in response to the complaint before the reply is drafted.

Once the response has been drafted, it is subject to a self-assessed Quality Assurance check during which adherence to an agreed Letter Writing Checklist is tested.

The Complaints & Exec Mail Team Manager/Supervisor performs further monthly sampling of contact categorisation to ensure accuracy. These additional monitoring systems check:

- DG7 categorisation;
- CMS description; and

- Advice Code for closed complaints (existence of and; accuracy of).

Sources of Information

Complaints are sorted into the relevant categories, date-stamped, scanned, logged then indexed, therefore ensuring security and minimising administration.

Each complaint received is scanned using the Fujitsu FI 6670 scanner. At the end of each "batch" of correspondence scanned, a batch number is allocated. The images can then be viewed by Customer Support on their PC and indexing can begin. During indexing the following details are input:

- Property and/or Customer reference;
- Date of receipt;
- CMS group;
- CMS description; and
- Document type

The Operator ID is automatically populated based on which member of Customer Support log the correspondence. At the indexing stage the scanned items are categorised, allowing the CMS description to be applied.

Changes in system during the reporting year

There were no major changes to the key systems in 23/24.

Actual Data

Actual data is extracted from the billing system RapidXtra using CorVu. CorVu 'DG7 Received QRY (Live)' is used to calculate the total number of DG7 contacts received and to calculate the DG7 closed performance. DG7 data analysis is produced monthly and re-run for the entire reporting year, providing the necessary information essential for the reporting requirements.

Sampling

Sampling is not used in compiling received data for DG7. Sampling is only used by NIW for data quality purposes.

Reliability

All data is taken from the main billing system to ensure that it is reliable and accurate.

Responses

Upon receipt of a complaint, we ensure that relevant action is undertaken, provide a substantive response and ensure the contact is closed on the Customer Contact Management System (RapidXtra).

NIW replies to all written complaints, regardless of the sensitivity of the issue or subject raised by the customer.

Our responses do one or more of the following:

- provide an explanation of our policy or procedure and indicate why no further action is required;
- inform the customer that action to resolve the complaint has been taken and identifies when this action occurred;
- informs the customer when the action to resolve their complaint will be taken if it cannot be done immediately e.g. capital works programme scheduled for completion in the future;

- answer all issues or questions raised by the customer.

Use of Telephone

Where appropriate, telephone calls are used to respond to written complaints. Telephone calls are also used to update customers as the progress of complaints under investigation. The customer account on RapidXtra is annotated with details of the call in these cases.

Use of Standard Letters

Standard letters are not used to respond to complaints - all responses are personalised and customised.

Use of Personal Visit

When a personal visit is used to respond to a written complaint, a letter confirming the content of the visit is provided to the customer. The date of the visit is used as the date of response.

NI Direct

Complaints received through NI Direct are not reported.

Telephone Complaints

Complaints received via telephone are reported as DG9 telephone complaints, not DG7. Billing telephone complaints are reported as DG6.

Date of Receipt

Written complaints are date-stamped per the date of receipt.

Date of Dispatch

The date of dispatch refers to the date on which a response is sent to the customer. The date of dispatch is recorded as the date closed.

Response Time

This is the number of working days between receipt of a contact by NIW up to and including the day of dispatch of a response. For the purpose of this calculation, the day of receipt (provided it is a working day) is counted as day zero and the next working day as day one.

When an email or fax is received after 16:00 it will be logged using the actual date of receipt, not the date on which it is scanned.

The reported date of receipt for emails/faxes received outside of normal operating hours is the actual date on which the complaint was delivered to the company. For example, if an email is received on a Saturday, this is recorded as day zero. The next working day (normally the Monday) would be counted as day one. If an email is received on a Sunday then this is recorded as date of receipt (day zero) and (normally) Monday as day one.

Substantive Holding Reply

This is defined as a response to a written complaint which advises the customer that NIW needs to undertake additional investigation or other actions before being able to provide a full response. A holding response is considered substantive if it advises the customer what further action needs to be taken in order to fully respond, when this will be done and when they will receive a further communication from NIW.

Items remain open until all actions have been completed but will be closed back to the date of the holding response for reporting purposes when said actions have been completed.

When a date by which investigations or further actions will be complete cannot be given, we will give the date by which we will update the customer.

Holding responses can be issued in writing or provided by telephone.

Repeat Contact

Where a complaint has been responded to and results in a period of correspondence each written contact is treated as, and reported as, a separate complaint.

This is done even if NIW consider the complaint has been dealt with as far as we are able.

Consumer Council for Northern Ireland (CCNI)

Complaints received in writing via CCNI will be logged as complaints and recorded in DG7 figures. All complaints from CCNI are received in writing.

CCNI enquiries and follow-up questions are not recorded as complaints.

Complaints to or about Contractors

Complaints made directly to contractors about work carried out on our behalf are recorded following notification to NIW through agreed process. Such complaints will be recorded even they are handled directly by the contractor.

Complaints about contractors received directly by NIW are reported even if they are referred to the contractor to deal with.

Holding Response & Frequency

Monitoring systems have been in place throughout the reporting period to support recording on the number holding responses issued throughout 23/24.

System-based report data was used to derive the number of holding responses issued between 01/04/23 and 31/03/24.

In cases where the investigations were on going by the expiry date of the initial holding response, a further holding response will have been issued.

Based on the recorded data, we can say that one (or more) holding response was sent in relation to 271 DG7 contacts received in 23/24. Therefore, it can be concluded that one or more holding response was issued in relation to 16.36% of the DG7 contacts received during 23/24.

Other Issues

Please refer to the DG7 Company Commentary.

Northern Ireland Water

Level of Service Methodology

DG8 Bills for Metered Customers

DG8 - BILLS FOR METERED CUSTOMERS

Definitions

Every time a metered account is billed a reading type is updated onto the Rapid billing system (Rapid) to identify the type of reading.

The reading types and estimated indicator are used to distinguish the meter reading status of each metered account, which is subsequently analysed in Rapid to create the 'DG8 Meter Summary Analysis' report.

DG8 Reporting

The Rapid 'DG8 Meter Summary Analysis' report ensures we correctly identify each of the reporting requirements in the sequence shown.

The reading indicators are extracted from Rapid RPU005 meter consumption update screen. The 'DG8 Meter Summary Analysis' report extracts this information and compiles this in line with the requirements.

The report is run annually at the end of the financial year, covering the period 1 April to 31 March and includes all categories requested by the Director General for the June Return reporting.

A bill is only counted as issued if it is sent to the customer within the reporting year. Any bills that are sent after this date will be included in the following reporting year's figures.

Total Metered Accounts

The report confirms the number of active accounts with either water or water and sewerage consumption which are metered.

Company Reading and Billed

If a Company reading has been taken during the within the defined annual cycle period, and a bill created against that reading, it will be included under the 'Meters read by Company' indicator. The exception to this is those meters that are billed outside of Rapid (trade effluent meters).

Company readings are recorded by the Meter Reader (MR) via a PDA. Each day the MR will upload those accounts that have had a reading and or an abnormal reading from the PDA to Temetra, for transfer to Rapid.

No Bills Received During Reporting Year

Bill status is scanned for no bills issued during the reporting year and is reported under the 'Not Billed this year' indicator.

Meters included in this category are identified as having a reading entered but the 'bill sent' flag set to 'No'

Customer Readings

Reading types are scanned for not receiving a bill based on a Company Reading but at least one bill based on a 'Customer Reading' and will be included in the 'Meters read by Customers' indicator.

'Meters Read By Customer' represents the number and percentage of the meters read by the customer within the DG reporting year.

The Company encourages our customers to take readings themselves so that they are aware of their usage. Customer reads can be registered for billing purposes by using the On-line facility available on our website or by calling our billing line.

Customer readings are recorded via a correspondence management system. A team member will then update the account and issue a revised bill. A customer reading type indicator will be displayed on the system. The estimated read will also be visible on the system

Estimated Only

Any meters that have not satisfied any of the preceding indicators will be recorded under the 'Meters Estimated Only' indicator.

'Meters Estimated Only' represents the number and percentage of meters only estimated within the DG reporting year. The following read types are identified as estimates: Estimate Exchange Final, System Estimate, and Manual Estimate.

Unread for Two Years

If no Company reading exists during a two year period, it will be reported under the 'No Company Reading for 2 Years' indicator.

Specifically two years back from the end date of the DG report.

Exclusions

The following are excluded from the indicators:

- Charged on another basis (not metered consumption)
- Test meters
- Trade-effluent meters
- DRD or NIW meters
- Fire supplies
- Properties occupied continuously for less than six months
- Complex accounts – Including combination meters i.e. the 'low-flow' element is excluded.
- Void properties

Reading and Billing Frequency

Frequency of reading:

- Non-household properties are scheduled to be read twice a year. The reading schedule for each read is completed over a six month period, the 1st read cycle is April to September and the 2nd read is October to March.
- Non-household – large volume users are read and billed monthly.
- There are a number of meters that have been assigned a reading frequency of Annual Read within the Rapid system. However, these meters are either DRD Supply or Test Meters which fall under the permitted exclusions and will only be read to assist business requirements, as neither category generates a customer bill.

Frequency of Bill Issue:

- Household properties – the Company do not currently bill domestic properties
- Non-household – the Company aim to read at twice a year and bill twice yearly.
- Large non-household users – the Company aim to read and bill monthly.

Method of Meter Reading

Before the start of each reading period, whether monthly or six monthly, details of metered accounts scheduled for reading were transferred from Rapid to the Temetra system on the last working day prior to the commencement of the reading period.

The accounts are then downloaded on to an electronic data storage unit (PDA) to facilitate the actual reading of the accounts by a MR in the field.

The meter reading information obtained by the MR is then transferred back to Rapid from Temetra, which is subsequently updated upon the meter being read.

The data transfer from Temetra to Rapid is not solely automatic and currently requires manual assistance by the MAM team.

Abnormal Readings

An abnormal reading can be identified by one of two factors:

- A meter reading that gives a usage that does not fall in line with previous usage patterns, identified by the MR, billing system or customer.
- A meter reading that does not correlate with previous readings taken.

The PDA unit automatically calculates the usage between a new reading and the previous reading. The MR checks the usage against the previous readings that are displayed on the PDA. If the usage appears to be abnormal the MR will enter a report onto the PDA and or use a pre-set indicator to explain why (trouble codes).

A daily 'Rejected Readings' report is produced through the Rapid billing system that also identifies any abnormal usage that require further investigation. Each account on the report is checked and if accepted the reading will be utilised and a bill issued. If the rejected read cannot be added, a site visit request is raised to instruct a Meter Query Technician (MQT) to investigate and provide further information.

Previous Misreads

Accounts that are identified as having previously been misread are subject to re-calculation based on the most recent meter reading.

Access Denied / Meter Reading Unobtainable

In such instances that the Company is unable to gain access to the meter, a skip code is entered which identifies that access was denied. If the customer does not provide a reading before the billing run a system estimate is used.

Faulty Meters

Where a faulty meter is identified and a MR or MQT replaces the meter it is recorded on an MRD (Meter Replacement Docket). This is captured electronically on the Temetra reading system and the replacement actioned by MAM, or in a VR response with the replacement actioned by the contact agent managing the response.

Where NIW staff complete replacement projects such as installation of AMR meters on the Ards peninsula, these replacements are completed out of cycle and captured in paper form before being scanned and forwarded to MAM, who complete the replacement on Rapid. NIW are currently reviewing this process and developing an electronic replacement process to remove the need for physical paper MRDs.

If a MR or MQT cannot replace the meter, a MMR (Meter Maintenance Request) is completed which their FM signs off and sends to the Meter Maintenance (MM) team, MM

then forwards the MMR to the Contactor. When the meter has been replaced, the Contractor advises MM of the replacement details. The old and new details will then be returned by MM on a MRD to MAM for updating on the billing system.

Updating, Post Bill Issue

If the Company has any disputed readings, the account will be suspended while further investigations are being made. Once the investigations are finalised, a revised bill will be issued if necessary.

Assumptions

Those accounts excluded from the analysis are categorised using the definitions provided by the reporting requirements, as noted above.

Additional Information

Echo, on behalf of Northern Ireland Water, are responsible for the billing activity.

Some meters are billed on a sundry schedule rather than the normal billing schedule within Rapid. These are Trade Effluent bills. Trade Effluent bills are excluded from DG8.

Northern Ireland Water

Level of Service Methodology

DG9 Telephone Contact

Definitions:

Principle Advertised Customer Contact (PACC) Points

For the purposes of the indicator, Principal means the main contact point(s) which customers are encouraged or directed to phone. Advertised refers to Customer Contact Points which are available in telephone directories, newspaper advertisements, Northern Ireland Water (NIW) website and NIW literature. It does not include temporary contact points which have been established to handle a specific topic.

NIW PACC points include:

- **Billing Enquiries:** 0345 877 0030
- **Debtline:** 0345 8770 050
- **Waterline:** 0345 744 0088
- **Leakline:** 0800 028 2011
- **Text Relay (for customers with hearing difficulties):** Registered users are provided with a prefix for any NIW number they wish to ring.

An MLA/ER Hotline (0345 300 6461) was initiated on 21st August 2007 to provide a direct means of contact for elected representatives and council members telephoning to enquire about specific issues in their constituencies.

In addition, the following dedicated campaign lines are in operation for certain sections of the community to aid NIW's response:

- Developers Line: 0345 877 0003
- Emergency Services: 0345 877 0008
- Telecare Quick Check: 0345 877 0080
- Closed Communities: 0345 877 0007

Telephone Contact

The indicator is intended to monitor incoming telephone traffic which can be regarded as originating from NIW's customer base. All calls received to telephone lines other than principle advertised customer contact points are excluded for reporting purposes (i.e., all other business lines).

Company Agent

NIW has contracted out the provision of Customer Billing and Contacts (CBC) to a 3rd party provider known as Echo Managed Services (Echo). Echo is the provider of CBC services and is based in Capital House, Belfast.

A company agent is defined as an employee of Echo (operating from a principal customer contact point), who operate the contact on behalf of NIW. All calls are answered directly by Customer Service Advisors who are direct employees of Echo.

Office Hours

The indicator covers office hours only. Office hours are defined as the hours which NIW's PACC points are open. These are detailed below:

- **Billing Enquiries & Debtline:** Monday to Friday - 08.00 to 20.00
  Saturday - 08.00 to 18.00
  Sunday - 12.00 to 18.00
- **Waterline:** 24 hours a day, 7 days a week, 365 days a year

- **Leakline:** 24 hours a day, 7 days a week, 365 days a year
- **MLA and dedicated lines:** 24 hours a day, 7 days a week, 365 days a year

Telephone Complaints

Calls received about the following water service issues are expected by NIAUR to be included as a complaint:

- no water;
- lack of pressure;
- leaks;
- taste and odour;
- discolouration; and
- hard water (except for simple enquiries, e.g., dishwasher settings).

In addition, calls received about the following wastewater service issues are also expected to be included as a complaint:

- sewer flooding other than those received through NI Direct; blockages; collapsed sewers / manholes;
- smells from sewage treatment works / pumping stations; and flies from sewage treatment works.

NIW have created a series of CMS logging codes, within the RapidXtra system, to cover these issues. All telephone contacts logged by the agent using one of these codes will be included in the reported volume of telephone complaints. In addition, where a customer expresses dissatisfaction during their call, the agent has the ability to select the complaint flag which will identify the log for inclusion in the reported figures.

NIW excludes from the reported figures, those telephone complaints which are:

- Anonymous;
- About the activities of other utilities;
- Received through NI Direct Incident Line; and
- Received on telephone lines other than principle advertised customer contact points (i.e. all other business lines).

Complaints to/about contractors

Telephone complaints to contractors or other agents about work being undertaken on behalf of NIW are reported only where NIW are informed. Complaints about contractors or other agents are also reported, even if the complaint is referred to the contractor to resolve.

Telephony Structure:

Telephone Providers Network

The supplier during the reporting year transferred from BT to Virgin. From 1st April 2022 to the 31st August 2022all calls were directed through the Cirrus platform before hitting the relevant location for Warm Voice contacts, HVCH or IVR. From the 1st September 2022 to date NIW transferred over to the Avaya platform which is NIW's corporate telephony platform. The data for the first six months was recorded by Cirrus and used for the contacts reporting. Since the changeover to Avaya calls are now recorded on this platform and used for reporting.

High Volume Call Handling (HVCH) System

The HVCH system is aimed at ensuring NIW can handle large volume of calls during periods where calls can increase very quickly e.g. Major Incidents, heavy rainfall incidents, etc. This ensures that all calls are logged and customers given specific information resulting in higher levels of customer satisfaction during service interruptions. The HVCH system will recognise customers using the telephone number we hold on their customer record or it can use Voice Recognition to allow customers to speak their Post Code.

Calls will be delivered to HVCH direct from the Avaya platform menu structure when a caller selects option '4'. Calls delivered to this campaign will be offered to agents first in Avaya CMS which is the replacement to Call Media on the Avaya Platform, however if an agent is not available the call will automatically divert to the HVCH Platform. The divert is controlled by the Virgin intelligent network, calls will divert on busy tone, route failure and no reply.

Since September 2020, 'No Water' calls have been handled on an 'HVCH First' basis, meaning any customer who calls in regarding a No Water issue will be directed to the HVCH service rather that a CRC agent, with the exception of customers on the Customer Care Register (CCR). All other calls options are set to 'Agent First' mode.

As each caller hangs up in the HVCH application, a Call Data Record (CDR) is created which details the caller's activity during the call. A portion of the CDR is passed to NIW in the customer contact file for the creation of work requests through Rapid to Ellipse.

IVR Cirrus

The IVR platform is not set to Agent first which means all calls will hit the Virgin switch first and then be directed to the IVR platform. If completed successfully on the IVR, the call will never hit the Avaya switch and will not be reported in Avaya CMS. The Billing & Debt line and Septic Tank IVR (S.T up to Aug 2023) are linked to the Billing Enquiry and Waterline PACC lines and will be reported using the CIRRUS Voice platform.

IVR is a technology that automates and simplifies interactions with incoming customer calls. In doing this, IVR provides a conversation, which can be either pre-recorded or generated audio that assists, directs, and/or guides customers automatically without the need to talk to an agent. Within these interactions customers are able to communicate by using either the dial pad or speech recognition.

This system was also used to report total calls figure when agents were advised to work from home.

Avaya CMS

During 2022/23 with the transfer over to the Avaya Platform, Call Media was also replaced with Avaya CMS. This was a like for like replacement system. Calls received on all other PACC lines and the majority of calls received on Waterline are delivered to the Avaya CMS system for allocation to an appropriately skilled agent. If there is more than one Customer Service Agent available, the system allocates the call to the one who has been available the longest period of time.

If no skilled agent is available immediately then the call will be queued until a skilled agent becomes available. The Avaya CMS telephony system provides an internal queuing system where callers will hear a ring tone and then a comfort message and music on hold.

The use of Avaya CMSs skill based routing ensures that incoming calls are distributed in a

way that will ensure a quality response to the customer.

Call Recording

All calls received in the call centre via Avaya CMS are recorded via Verint WFO call recording software. This replaces the NICE call recording software. This software records the time of the call and the telephone number that called the centre if available.

Call Handling:

Practices and Procedures

All calls received are managed by either HVCH call routing system or Avaya CMS and routed directly to an appropriately skilled agent based on the first available call handler.

Wherever possible, an agent will deal and action a customer's enquiry at point of contact. Where this is not possible, a message will be raised on the system for further investigation or where appropriate the customer will be transferred.

All enquires are logged on RapidXtra automatically by HVCH or manually via an agent, covering the reason for the contact (contact type) and the advice given or action taken. This is the case whether or not further work is required ensuring all calls are recorded, even if they remain open for further action.

Calls which require further action are logged on RapidXtra and work flowed to teams or individuals as required or passed to Ellipse for issue to mobile work management operational teams. This includes instances where further actions or NIW investigation is required in order to provide a full response to the customer.

Transfers between PACC Points

Agents are multi-skilled, so transfers are not generally made. Transferred calls are reported as one call.

Direct Measurement/Interpolation/Extrapolation

NIW measures statistics for all telephone calls received on PACC points which are delivered directly to the Avaya CMS telephony system and to the HVCH system. Sampling, interpolation or extrapolation is not used in compiling totals.

Messaging:

Use and activation of IVRs (Interactive Voice Response)

During business as usual an introductory message is set up and assigned to each queue, e.g., Billing Enquires Line. The message greets the customer and thanks them for calling the relevant number. It explains that an agent with be with them shortly and to note that calls are recorded to help provide quality assurance and training.

If a customer telephones out of hours, the customer will receive an out of hour's message. In the event of disaster recovery and building evacuation, a recorded message is activated which explains to customers that calls cannot be answered at the moment, please call back later.

As noted above, the Virgin network IVR tool is now being utilised on Waterline to direct

customers calling in relation to Trouble Calls, Septic Tank requests and other operational issues. This allows NIW to transfer Trouble Calls to the HVCH system in situations where calls exceed the volume of agents available in the CRC.

As noted above, the CIRRUS Voice IVR Platform is now being utilised to automate and simplify interactions with particular call types from incoming customer calls. The IVR provides a conversation, which can be either pre-recorded or generated audio that assists, directs, and/or guides customers automatically without the need to talk to an agent.

Use and activation of message manager systems

No message manager systems were used during the reporting year.

Use and activation of answering machines

Answering machines were not used during the reporting year.

Company Systems:

Telephony

Systems comprise of a suite of Avaya products and Avaya CMS. The Avaya switch is tightly integrated with the Avaya CMS which provides Computer Telephony Integration (CTI), ACD and outbound dialler functionality through three main components:

- Avaya S8710 providing core telephony switching
- Avaya CMS software providing ACD, CTI and dialler functionality
- Call Recording through Verint WFO; and
- High Volume Call Answering (HVCH), hosted service provided by Twenty First Century Communications.

Calls that arrive at the Avaya switch are routed by the Avaya CMS to appropriately skilled agents via softphones.

Location

All systems are facilitated by two servers, one located in Westland and one in BT Belfast. There is currently a 240 line capacity dedicated inbound calls from NIW customers, 30 dedicated lines for outbound calls and 30 dedicated lines ring-fenced for priority lines e.g., ER Hotline, Emergency Services, etc.). The scale of the current capacity was implemented in preparation for domestic billing which was deferred in April 2007.

Software

Software comprises of Avaya CMS, the integral reporting suite supplied with Verint WFO call recoding.

Other Issues:

Text Relay Service and Text Phone

NIW has provided for a Text Relay and Textphone service to support customers with hearing difficulties.

Text Relay Service is a third-party service whereby the customer rings a Text Relay operator, who in turn contacts the Customer Relations Centre via the normal customer line (Waterline/Leakline/Billing, etc.) on behalf of the customer. This is recorded as a call

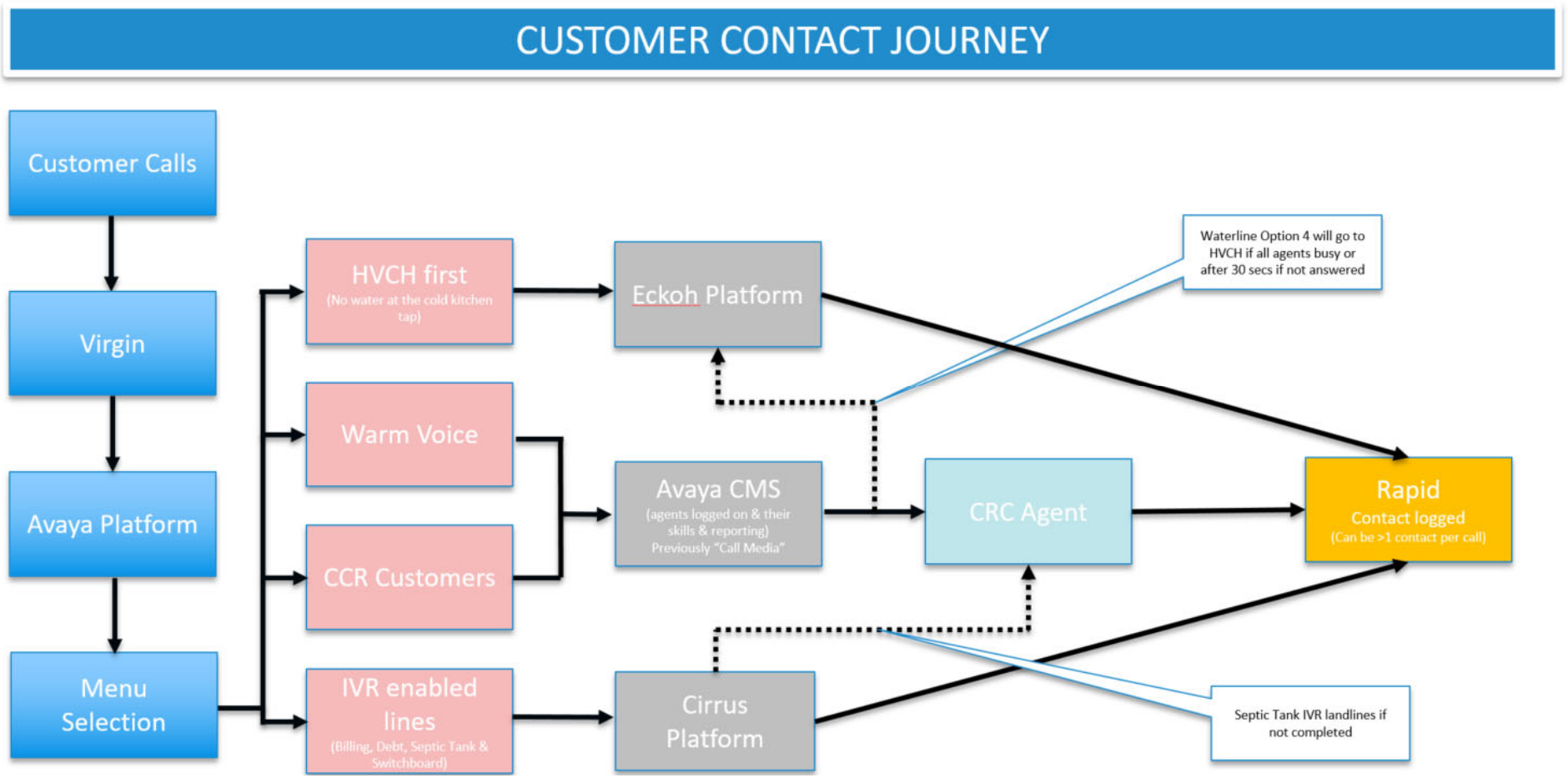
received on the appropriate line.

Rejected Calls

During the reported year calls currently rejected for any of the following reasons are not included in total calls received:

- The time being out of working hours
- The queue is too full and cannot accept any more tasks. Each queue holds 500 calls at any one time.
- The task queued for the ‘Max Queue Time’ and was returned to the connector.

Appendix 1


CUSTOMER CONTACT JOURNEY
Customer Calls
Virgin
Avaya Platform
Menu Selection
HVCH first
(No water at the cold kitchen tap)
Warm Voice
CCR Customers
IVR enabled lines
(Billing, Debt, Septic Tank & Switchboard)
Eckoh Platform
Avaya CMS
(agents logged on & their skills & reporting)
Previously "Call Media"
Cirrus Platform
CRC Agent
Rapid
Contact logged
(Can be >1 contact per call)
Waterline Option 4 will go to HVCH if all agents busy or after 30 secs if not answered
Septic Tank IVR landlines if not completed



Annual Information Return 2024

Section 4

Customer Research Appendix

Annual Information Return 2024

Customer Research Appendix

Customer Satisfaction

One of the fundamental measures concerning the level of service received by customers is their level of customer satisfaction. NI Water measures customer satisfaction through different surveys:

- Voice of the Customer (VoC)
- Omnibus Survey - Question 1 & Question 2.

Listening to our customers' views and building these into our plans is essential for us to ensure that our customers' needs are at the heart of our service delivery.

Intelligent Operations (IO) are continuously working on providing an improved customer experience. Under the auspices of the Customer Engagement Oversight Group (CEOG) and the Customer Measures/Satisfaction (CM/SAT), IO have been actively engaging with NIAUR, CCNI and DfI to develop a range of new quantitative and qualitative customer measures which are most relevant to us and our customers. These have been reflected in the new customer measures as agreed in the PC21 Final Determination.

These measures include the development of targets and methodologies more meaningful and timely customer satisfaction feedback to highlight, as close to real time as possible, those areas and activities which cause dissatisfaction for customers.

For regulatory reporting purposes in 2023/24, scores from the Voice of the Customer and the Omnibus Survey are used/reported in Table 5.

E	CUSTOMER SATISFACTION MEASURES
23	Customer advocacy measure
24	Omnibus survey question 1
25	Omnibus survey question 2

In 2018/19 NI Water introduced Voice of the Customer (VoC) in which surveys are conducted by Watermelon, an independent Customer Experience and Insight specialist.

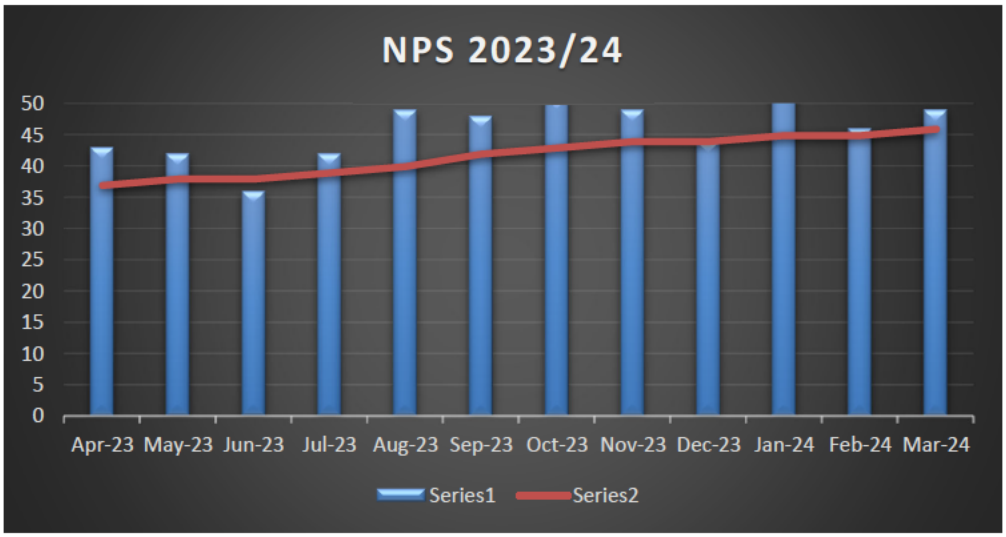
These are near real time surveys conducted daily, with each customer being asked to complete a survey after interacting with NI Water. This provides a much greater sample size over the course of an entire year (approximately 600 surveys per month).

The objective of the surveys is to capture the views of those customers who have had dealings with the company, not only through the main contact centre but other parts of the business. On top of surveying customers who have engaged with our contact centre, an automated report has been set up to look at any operational work completed the day before via Ellipse. Once the Work Order is closed within Ellipse the data is linked to the initial contact(s) logged in Rapid to obtain the details of the customer who had the issue. This data is then passed to Watermelon who then survey that customer.

Customers are asked "*Based on your recent experience with us, how likely are you to recommend NI Water? Please respond 0 for very unlikely up to 10 for very likely*".

The score is calculated using Net Promoter Score methodology based on results from the previous question. The survey is based on resolved contacts only in relation to all areas of the business. NI Water achieved an overall score of 46 for the reporting year 2023/24.

Customer Advocacy Measure Monthly Score 2023/24



Omnibus Survey

The Omnibus survey is different from VoC, in that it also includes customers who have not contacted us during the year – known as the Silent Majority. Our records show that on average 80% of our customers do not contact/need to contact us. Yet it is important to seek and understand their views regarding the level of service they are receiving from NI Water, to determine if there is any correlation between their views and those customers that do contact us.

Ipsos MORI conducted quantitative research on behalf of NI Water, between 29th February to 6th March 2024, with the standard Questions 1 & 2 included in a series of questions being asked of domestic and non-domestic customers.

- 1,700 residential customers adults aged 16+ were engaged via Ipsos MORI's online KnowledgePanel. We received a higher response than last year with 997 responses (985 in 2022/23) received via the KnowledgePanel. As with previous years scores are weighted to be representative of the NI population in terms of age, gender, social class and geographical location.
- 500 business customers were surveyed by means of Computer Assisted Telephone Interviewing (CATI), conducted by telephone from the Ipsos MORI Telephone Research Centre. As with previous years quotas are controlled by location, industry sector and size. For consistency with previous research, non-domestic customers were categorised as services or manufacturing.

A summary of the key findings is as follows:

- Findings from the research suggest strong levels of endorsement of water services in Northern Ireland, with
  - 74% (72% in 2022/23) of domestic customers and 73% (77% in 2022/23) non-domestic customers indicating that they are satisfied with the services they receive from NI Water.
  - Of the domestic customers, significantly more of those aged 25-34 and 35-44 (77%) agree with the statement. "I am happy with the service I receive from NI Water."
  - Of the non-domestic/business customers, just less than three quarters (73%) agree with the statement "I am satisfied with the service I receive from NI Water". Significantly more businesses with >26 employees (80%) strongly agree with this statement.

- Overall, the average level of satisfaction, weighted over both customer bases, is 73.7, as follows:

	Sample Size	Score	Total
Domestic	997	74	73,778
Non-domestic	500	73	36,500
Total	**1497**		**110,278**
Average			**73.7**

- In terms of Advocacy:
  - 62% of domestic customers rated NI Water with a score of 7 or more out of 10 in terms of likelihood to recommend. The average score across the sample was 7.21. Those in urban areas and Protestants were more likely to recommend NI Water.
  - 69% of non-domestic customers rated NI Water with a score of 7 or more out on 10 in terms of likelihood to recommend. The average score across the sample was 7.75, which is slightly higher than domestic advocacy.

Service Incentive Mechanism (SIM)

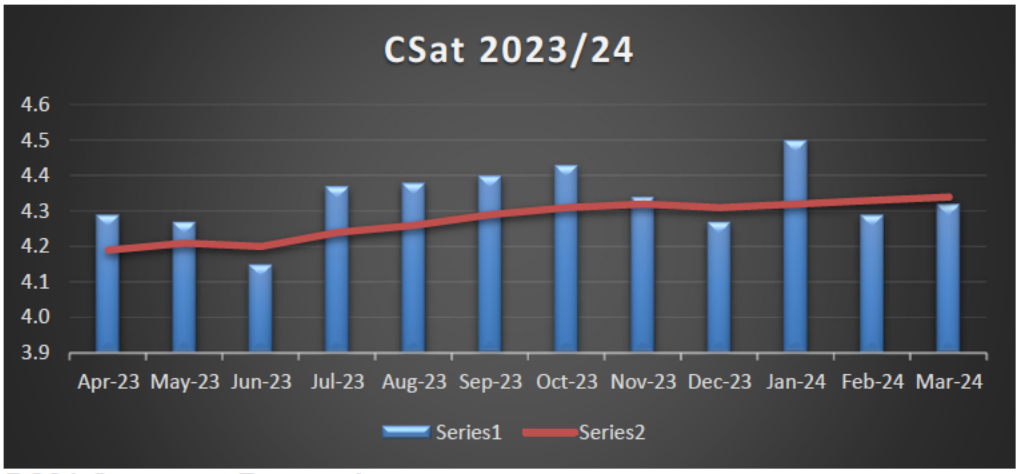
SIM is divided 50% quantitative and 50% qualitative penalties. Since 2019/20 the Voice of the Customer service provided by the third party, Watermelon has been used to facilitate the Qualitative element. All customers which have interacted with NI Water in any capacity are asked to complete a survey which provided a much greater sample size of close to 600 surveys per month. This larger, ongoing sample allowed for a more reliable reflection of NI Water's customer metrics, while also allowing NI Water to monitor ongoing trends.

As part of the survey, customers are asked "*taking everything into account, how satisfied were you with the way NI Water handled this matter? Remember, that 0 is very dissatisfied through to 10 for very satisfied*"

NI Water supplies contact details (telephone number, date of initial contact, CMS code detailing the type of contact) to Watermelon each day via Secure File Transfer Protocol, with Watermelon returning any completed surveys the same way as soon as they are completed. This information is then stored in NI Water's encrypted data warehouse.

The scores given in the aforementioned question are normalised to a 5 point scale and are used to drive the qualitative, overall satisfaction component of the SIM Score.

Customer Satisfaction Monthly Score 2023/24



PC21 Customer Research

In preparation for the PC21 business plan, NI Water appointed Ipsos MORI as it strategic customer research partner to undertake all research surveys over the next 5 years (from January 2019 to March 2024). This covers the PC21 main and interim customer research, Omnibus surveys and further annual support.

Ipsos MORI completed the PC21 Customer Research under the guidance and monitoring of CEOG – Consumer Engagement Oversight Group – incorporating representatives from CCNI, DfI, NI Water and NIAUR.

The final PC21 Customer Research was completed in Winter 2019/20 and findings included in the PC21 Business Plan.