Appendix: PFAS Investigations Enhancement Case



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1. Enhancement Case: PFAS chemicals

1.1 Overview

Poly and Perfluorinated Alkyl Substances (PFAS) are a very wide group of chemical compounds which are known to be very stable in the environment. The presence of PFAS is emerging as a potential health risk worldwide. To date, evidence indicates low risk in Yorkshire. However, this enhancement case (EC) is designed to improve the understanding of PFAS through monitoring and support collaborative working with relevant partners and stakeholders that could be impacted by PFAS, such as landowners, the farming community, regulators, and other agencies like the fire and rescue services.

This EC is requesting expenditure to enhance our sampling regime, and to engage with the key third parties that have knowledge of and influence within our catchments, as well as to hire additional resources to address the additional workload.

1.2 Driver: Addressing raw water quality deterioration

The driver for this EC is addressing raw water quality deterioration that responds to a DWI supported intervention to identify, resolve, or investigate potential for public health risk.

In response to the change in guidance and the driver outlined above, we have submitted an undertaking addressing risks of PFAS in water¹. The undertaking will be done in partnership with DWI, which supported us in our planned investigation activity.

1.4.1 Requested Investment

Table 1.1: AMP8 Expenditure

	BP submi ssion (£m)	Ofwat DD (£m)	DDR (£m)	Variance (£m)	Table Line Ref.
Enhancement Expenditure Capex	-	-	0.420		CW3.97
Enhancement Expenditure Opex	-	-	2.480		CW3.98
Base Expenditure Capex	-	-	-		
DPC value	-	-	-	-	
Total	-	-	2.900		

¹ <u>https://www.dwi.gov.uk/water-companies/improvement-programmes/yorkshire-water-improvement-programmes/yks-2023-00009/</u>

YKY-PR24-DDR-39- PFAS Investigations Enhancement Case

1.2.1 Associated Reporting lines in Data Table:

Table 1.2: Reporting Lines

Line Number	Line Description
CW3.97	Addressing raw water quality deterioration (grey solutions); enhancement capex
CW3.98	Addressing raw water quality deterioration (grey solutions); enhancement opex
CW3.99	Addressing raw water quality deterioration (grey solutions); ; enhancement totex

1.3 High level driver description

We propose enhancement expenditure to address raw water quality deterioration. Knowledge of PFAS is developing, and additional evidence of potentially raised levels of PFAS is being found. Our approach at this stage is to:

- Improve our own understanding,
- Engage with stakeholders to promote best practice,
- Carry out minor intervention where these can be effective, but also to,
- Develop investment programmes for future price control periods where that is unavoidable.

The proposed interventions and associated expenditure set out below meets the approach and outcomes/guidelines set out by DWI.

1.4 Need for investment

PFAS compounds have been utilised in widespread industrial and household settings, such as non-stick coating on kitchenware, personal care products, fire-fighting foams and industrial plating techniques.

1.4.1 Historical PFAS levels within our licence area

Analytical techniques for testing of PFAS in raw and drinking water have only relatively recently been developed and robust sample monitoring programmes were implemented in 2022 to supplement existing qualitative catchment understanding. At Yorkshire Water we have monitored PFAS levels since it was technically possible.

PFAS levels within Yorkshire Waters licence area remained within Tier 1 limits throughout March² until Autumn 2023 where we detected tour first PFAS above Tier 1 in supply to customers. This was subsequently notified as a Water Quality Event, with a minor catchment intervention required to divert high levels of PFAS from the surrounding area entering an en-route raw water storage reservoir.

1.4.2 New guidance from DWI

Drinking Water Inspectorate (DWI) provided its latest guidance on approach to PFAS in July 2022³. While in preparation for PR24, DWI also set out their expectations of water companies

² Some individual raw water sources had been found to have PFAS at Tier 2, all of the Company's treated water supplies complied with the Tier 1 level.

³ <u>https://dwi-content.s3.eu-west-2.amazonaws.com/wp-content/uploads/2023/07/10150805/IL_03-2022_PFAS_Guidance.pdf</u>

with regard to support of enhancement funding of PFAS schemes⁴ shortly before the closing date for DWI "Appendix B" submissions to request support.

The July 2022 guidance defined risk to customers with a tier system which applied to "treated" water. The PR24 guidance indicated the need for enhanced levels of investigation and intervention only where PFAS chemicals entered Tier 3 (the highest) of the 3-tier assessment process. Further evidence of DWI expectation for monitoring PFAS is provided in Annex 2.

Following closure of the DWI 'Appendix B' process in November 2023, we received a request to complete an undertaking for PFAS. As part of the development of the undertaking, the DWI also wrote to companies in December 2023 to modify its expectation that theyshould take action to address PFAS in Tier 2, and also where treated water is in Tier 1 but some raw water samples are in higher tiers. We have completed an undertaking document and received support from DWI for the actions required to meet these new requirements.

Therefore, to continue to meet the expectations set out by DWI we request expenditure allowance for this EC, to conduct further monitoring into PFAS in cooperation with DWI.

1.4.3 The need for the proposed investment

We have been monitoring and reviewing the levels of PFAS in water since this became analytically possible (post 2022). We chose not to seek support for enhanced investment at the earliest opportunity (March 2023 DWI Appendix B process) as the evidence did not support it at that stage. However, in the context of updated analytical data, in November 2023 which showed levels above Tier 1 PFAS levels on one occasion, and a change in DWI guidance we have now identified that new investment is required to investigate this emerging risk.

Therefore, in order to have better visibility of our network and thus the possibility to intervene we are requesting expenditure allowance as part of this EC for the monitoring of PFAS levels within our licence area.

1.4.4 The Scale and timing of the investment

The scale and timing of the investment is fully justified for two reasons:

- Scale: We are initially opting to proportionately build out our existing monitoring capabilities and engage in targeted sampling, rather than undertaking widespread monitoring or costly investment in PFAS water treatment. This is further explored in the preferred option section.
- 2) Timing of Investment: Our intervention is timely because we have chosen to act based on evidence of exceedance in November 2023 (evidence-based approach) and in line with recent DWI guidance. It is imperative that we improve our visibility of the network regarding PFAS, evidence has shown that areas that previously were below exceedance levels (e.g. Leeds in March 2023), may quickly rise above exceedance levels (e.g. November 2023) requiring intervention.

Our proposal provides a proportional approach to confirm the nature of the risk and provide sufficient evidence for future investment should this become necessary.

⁴ https://dwi-content.s3.eu-west-2.amazonaws.com/wp-

content/uploads/2023/03/22115354/Information-Letter-02_2023-1.pdf YKY-PR24-DDR-39- PFAS Investigations Enhancement Case

1.4.5 Interactions with base or previous funding

The funding requested in this EC is for new obligations rather than for previous price reviews. Even though the use of PFAS chemicals in various industrial and domestic applications has been extensive for many years, spanning past price review periods, the potential health risks associated with drinking water have only recently come under discussion. This meant that guidance set out by DWI was limited to monitoring just treated water and that monitoring capabilities within Yorkshire Water was limited thus providing limited data on this potential issue. However, as mentioned above, the recent exceedance in November 2023, DWIs recent engagement since November 2023 and the updated guidance on PFAS monitoring and exceedance levels have brought to light the requirement of monitoring going forward.

1.4.6 Long-term delivery strategy alignment

This enhancement is aligned to our long-term delivery strategy (LTDS) evidenced by its inclusion within the following strategies:

- Long Term Statement on Drinking Water Quality.
- PFAS Strategy.
- Alternative pathway in the Long-term delivery strategy.

1.4.7 Customer support

Due to the timescale of the identification and realisation of risk related to PFAS, there was no opportunity to confirm customer support of specific PFAS solutions at this stage. As mentioned, above PFAS chemicals have been discussed in UK national media, and this has led to localised concern reported by customers. Therefore, we do not anticipate any stark resistance from our customers. However, going forward we will engage with customers to seek their support and educate them of the risks. This will be partly done through the proposed staffing of a new role titled Stakeholder Engagement Lead, which will focus on engaging with our customers in the future.

However, while widespread knowledge of PFAS amongst customers is in its infancy, we do know from recent customer research on the subject that pro-active measures to tackle PFAS and ensure safe, good quality drinking water is a key priority for our customers once they learn more about it, with investments in this area well supported. This is evidenced in our research testing support for the different pathways and associated trigger points of our long-term delivery strategy (LTDS), where we engaged with 1,167 customers. Two of our alternative LTDS pathways have a focus on PFAS:

- Pathway 5: Forever Chemicals Sewage Sludge.
- Pathway 6: Forever Chemicals Effluent.

Both these include additional levels of investment to support us to treat or remove PFAS from sludge and effluent if legislation changes in future or if societal attitudes change towards PFAS, with increasing negative sentiment.

80% of customers support us in switching to Pathway 5 if the trigger point is met, and 79% support us switching to Pathway 6.

Customers are supportive of Pathway 5 and us tackling PFAS in sludge because they anticipate an increase in these chemicals as the population grows and would like us to pre-empt and tackle this before the risk becomes greater. They also say it would be beneficial for human and animal health and the wider environment to switch to this pathway.

Customers support Pathway 6 for similar reasons, they also say that they do not want these chemicals in their water and want action to be taken to protect future generations. Some customers say they would prefer this to be implemented as soon as possible to avoid delay. YKY-PR24-DDR-39- PFAS Investigations Enhancement Case "Forever chemicals pose risks to our environment, and we are not sure of the long-term impacts of their release so reducing them makes sense." – Female, 35-44, West Yorkshire

The majority of customers accept increased investments, and the subsequent bill increases, to support these pathways. 59% of customer accept the bill impact for Pathway 5 and 65% accept the bill impact for Pathway 6, indicating good levels of support for increased investment in actions to tackle PFAS.

More generally, ensuring we continue to provide safe drinking water is a top priority for our customers. In our Valuing Water research (2022, speaking to 391 customers), 'Providing a continuous supply of water that is safe to drink' was ranked the top priority out of all other services by 83% of customers and from our conversations with customers on PFAS perceptions of drinking water being safe and the removal of PFAS is very much linked.

1.4.8 Factors outside management control

Yorkshire Water does not generate PFAS chemicals as part of its water or waste processes, although there is the potential for breakdown products to occur. The presence of PFAS in treated water is fundamentally due to the presence in raw water. The presence of PFAS in raw water is due to a number of factors related to their widespread use over many years causing release into the environment and the very stability of the compounds. Therefore, the need of investment is not driven by factors in Yorkshire Water's control, but rather from particles that originate from our customers.

1.5 Best option for customers

The preferred option is Option 2, which is to enhance our sampling regime and hire additional resources to address the additional workload.

This option is the preferred option due to the ability to address the issue in a timely manner, as new treatment facilities will take years to build, and the aspect of proportionality, prior to committing large amount of capital into new treatment processes.

This approach will help us investments backed by evidence which will benefit our customers in the long-term.

1.5.1 Options considered

The intervention is backed by an evidence-based approach and in response to true detections of exceedance of Tier 1 levels in November 2023 and risk to customers.

Therefore, to begin to address these risks we have identified several monitoring and investment related options.

List of options:

Option 1: Investment into new PFAS water treatment processes

This option explored investing into widespread new water treatment processes to remove any PFAS contamination from our water supply. This intervention would require a wide range of treatment options, due to the wide range of chemical combinations found within PFAS. The expectation was that treatment would have included the construction of additional granulated activated carbon contactors with extended empty bed contact time.

An initial outline investigation estimated that the cost of construction could amount to approximately £135m of capex for four treatment sites, with a further £8.8m in opex costs across AMP8.

However, in the absence of robust evidence of PFAS risks to customers, Option 1 was discounted.

Option 2: Enhancement of existing sampling, investigation, and engagement regimes

This option explores enhancing our sampling regime through increasing the amount of sampling resources, analytical samples and catchment investigations to ensure high quality evidence that allows Yorkshire Water to develop and implement solutions. Additionally, we will also increase our capabilities in catchment management engagement by hiring a Catchment Specialist and an Engagement Lead.

Our experience in 2023 and 2024 at one site is that risk can be addressed by relatively simple catchment interventions, and we would propose to continue that activity with the resources and analysis proposed rather than put forward costly capital and carbon heavy treatment solutions.

This option has been short-listed as the preferred option due to its proportionate approach in gathering additional data prior to suggesting widespread and costly investments.

1.5.1.1 Solution development and costing

A key element in improving understanding for future assessment is robust knowledge of risk. Key to our case is enhancing our sampling regime through sampling resources, analytical samples, and catchment investigations to ensure high quality evidence that allows Yorkshire Water to develop and implement solutions.

In the context of limited customers awareness, as well the potential for significant impact on the environment through naïve actions by third parties, we also propose to implement an enhanced to catchment management engagement with new a Catchment Specialist and an Engagement Lead. Together these roles will facilitate both improved understanding for risk for Yorkshire Water, and encourage best practice amongst partners and stakeholders working in partnership in our common environment.

Although monitoring is the preferred option as part of AMP8, we also acknowledge that treatment may eventually be required and will address those risks in AMP9 and beyond. This is set out as an alternative pathway in our LTDS, with the possibility that treatment investment could be required at a number of sites in AMP9.

Below is a breakdown of the costs associated with Option 2, providing a split of the per annum costs and a total across the AMP9 period.

	Costs in £k	
Activity		
	Ра	AMP8
3 x FTE for Engagement	£199	£997
Stakeholder Engagement	£26	£131
Minor Catchment Improvements	£21	£105
Routine and Investigational Sample programme	£250	£1,247
Treatment Solution development and Investigations	£84	£420
	Total	£2,900

Table 1.3 Breakdown of costs associated with Option 2

1.5.1.2 Preferred options

The preferred option is Option 2, which is to enhance our sampling regime and to hire 3 additional FTE to support in the engagement activities to better support the sampling but also the ongoing engagement with our customers to both notify them of the risks but also understand where potential exceedances are already occurring or will occur in the future.

1.5.2 Cost-benefit appraisal, carbon & impact quantification

The preferred option (outlined in section 1.7.1) is to complete investigations, carry out stakeholder engagement and develop notional solutions. There is no direct service improvement to customers expected from the investigation, as a result there is no benefit for cost-benefit appraisal at this stage.

An aspect of the scheme is to develop treatment notional solutions, as part of this process a robust cost-benefit appraisal will be completed using our 'Six Capitals' methodology in our Decision-Making Framework. This will consider the impact to customers health, the carbon associated with interventions and the whole life cost. This will ensure an efficient cost to customers is promoted (if investment is required) in AMP9.

1.5.3 Cost and benefit uncertainties

The risk of PFAS to human health is currently being studied, but as of today there is no definitive direct evidence of adverse health impact to humans. However, the risk is that whilst we maximise our investigation activities it could impact on the ability to deliver a robust treatment solution, as outlined in Option 2, in AMP8. Additionally, since this is an evolving space health guidance on regulatory arrangements could be amended and require further actions during this AMP.

1.5.4 Third-party funding

There is no planned third-party funding for this case.

1.5.5 Direct Procurement for Customers (DPC)

The proposed scheme does not meet the materiality threshold for DPC.

1.6 Cost efficiency

1.6.1 Option costs & efficient cost estimates

The costs proposed for our preferred option are robust, based on existing framework contracts and industry salary benchmarks. Below is a table that provides some further information on the robustness of our cost estimation.

Line Item	AMP (£k)	Cost Robustness
FTE (3x) for Engagement	997	YW Salary Benchmarks
Stakeholder Engagement	131	Representative Costs

Table 1.4 Information of cost estimation robustness

Minor Catchment Improvements	105	Representative Costs
Routine and Investigational Development	1,247	Contractual Arrangements
Treatment Solution Development and Investigations	420	Contractual Arrangements

Our plan's costs are determined using current known costs for existing roles and vehicles. The laboratory analysis is based on existing agreed contractual arrangements at the current rate of sample collection, approximately 90 samples per month. We have reported representative costs for attendance at agricultural shows, as well as representative costs for envisaged catchment interventions. These are based on costings we have undertaken for comparator projects in the past. The development of treatment solutions is based on the proposed cost of outline treatment solutions as part of background planning in PR24.

Based on our costing work, we have a strong confidence in the robustness of the costs outlined above.

1.6.2 Need for enhancement model adjustment

1.6.2.1Additional costs

We agree with Ofwat's approach to conduct shallow or deep-dives on a case-by-case basis for PFAS investments because companies have selected various investigations and improvements that are not directly comparable for a modelled approach. We note that the value of this proposed expenditure is likely to mean a shallow dive approach is appropriate.

1.6.2.2Insufficient allowances

Not applicable, as above shallow/deep dive approach used is appropriate.

1.6.2.3 Econometric or engineering evidence

Not applicable, as above shallow/deep dive approach used is appropriate.

1.7 External assurance

We have followed our assurance plan, in line with the process described within our assurance appendix, published alongside our Business Plan in October 2023: YKY61_PR24 Assurance (<u>yky61_pr24-assurance-1.pdf</u> (<u>yorkshirewater.com</u>)). Due to the tight time constraints for the Draft Determination Representation, our assurance has focussed on Level 1 and Level 2 assurance, with specific oversight provided at Level 2.

1.8 Customer protection

PFAS investigations will be delivered as outlined in the DWI undertaking (ref: YKS-2023-00009) providing customer protection that the proposed work will be completed.

PCD mechanism not required as cost threshold not met.

1.6.3 Third-party funding or delivery arrangements

This scheme does not require third-party funding.

Annex 1 - DWI Appendix B application for support of PFAS activity

Section 1

Background information					
Water Company	Yorkshire Water				
Date of submission	28 th June 2024				
Name of Supply System	Regional				
Regulation 28 report(s)	Scheme is a regional monitoring initiative. Relevant				
reference number(s) (Únique	Reg28 reports for all water treatment works noted below.				
report that applies):	VKS Diak T1600250 04 24 cov				
report that applies).	VKS Diak T1600750 04 24 cov				
	VKS Diak T1600900 04 24 cov				
	VKS Dick T1601050 04 24 cov				
	VKS Pick T1601050 04 24 csv				
	VKS Dick T1601400 04 24 csv				
	$VKS_Rigk_T1601802_01_21 csv$				
	YKS-Risk-T1692030-04-24 csv				
	YKS-Risk-T2690051-04-24 csv				
	YKS-Risk-T2690260-04-24.csv				
	YKS-Risk-T2690800-04-24 csv				
	YKS-Risk-T2691630-04-24 csv				
	YKS-Risk-T2691750-04-24 csv				
	YKS-Risk-T2692150-04-24.csv				
	YKS-Risk-T2692680-04-24.csv				
	YKS-Risk-T2692750-04-24.csv				
	YKS-Risk-T2692940-04-24.csv				
	YKS-Risk-T2693100-04-24.csv				
	YKS-Risk-T2693150-04-24.csv				
	YKS-Risk-T2693650-04-24.csv				
	YKS-Risk-T2694270-04-24.csv				
	YKS-Risk-T2694400-04-24.csv				
	YKS-Risk-T2694650-04-24.csv				
	YKS-Risk-T2695000-04-24.csv				
	YKS-Risk-T2695050-04-24.csv				
	YKS-Risk-T2695260-04-24.csv				
	YKS-Risk-T2697100-04-24.csv				
	YKS-Risk-T2697440-04-24.csv				
	YKS-Risk-T2698150-04-24.csv				
	YKS-Risk-12698270-04-24.csv				
	YKS-Risk-13690600-04-24.csv				
	YKS-RISK-13691450-04-24.CSV				
	YKS-RISK-13092700-04-24.CSV				
	1 NO-RISK-1 20929 10-04-24.CSV				
	TKS-RISK-13093040-04-24.CSV				
	1 NO-NISK-1 2092240-04-24.05V				
	VKS Pick T360/100 0/ 2/ cov				
	VKS_Rick_T/600220_0/_2/ cov				
	YKS_Risk_T4690650-04-24.05V				
	YKS-Risk-T4691410-04-24 csv				
	YKS-Risk-T4692156-04-24 csv				
	YKS-Risk-T4692305-04-24.csv				

Background information	
	YKS-Risk-T4692722-04-24.csv
	YKS-Risk-T4693660-04-24.csv
	YKS-Risk-T4694455-04-24.csv
	YKS-Risk-T4695450-04-24.csv
	YKS-Risk-T4696770-04-24.csv
	YKS-Risk-T9692000-04-24.csv
Name of Water Treatment	Regional
Works/ Distribution System/	
Service Reservoir/ Other asset	
Water Quality	Per and polyfluoroalkyl substances (PFAS) - H067
hazard(s)/driver(s) identified:	
Reference to outcome in	Initiative developed following publication of Long-Term
company's long-term strategy:	Strategy document (January 2023).

Section 2

1 Provide supply arrangements and treatment works details: Project will include monitoring and engagement on a regional basis, and hence applies to supply of water to all customers. 2 A description and diagram of the supply system related to the treatment works Project will include monitoring and engagement on a regional basis, and hence applies to supply of water to all customers. 3 Design capacity of the water treatment works (MI/d) Regional Output 1319 MI/d provide in YKSDETAILS updated as of Jan 2024 4 Volume supplied: 0 Daily average (MI/d)				
Project will include monitoring and engagement on a regional basis, and hence applies to supply of water to all customers. 2 A description and diagram of the supply system related to the treatment works Project will include monitoring and engagement on a regional basis, and hence applies to supply of water to all customers. 3 Design capacity of the water treatment works (MI/d) Regional Output 1319 MI/d provide in YKSDETAILS updated as of Jan 2024 4 Volume supplied: • Daily average (MI/d)				
2 A description and diagram of the supply system related to the treatment works Project will include monitoring and engagement on a regional basis, and hence applies to supply of water to all customers. 3 Design capacity of the water treatment works (MI/d) Regional Output 1319 MI/d provide in YKSDETAILS updated as of Jan 2024 4 Volume supplied: • Daily average (MI/d)				
Project will include monitoring and engagement on a regional basis, and hence applies to supply of water to all customers. 3 Design capacity of the water treatment works (MI/d) Regional Output 1319 MI/d provide in YKSDETAILS updated as of Jan 2024 4 Volume supplied: • Daily average (MI/d)				
3 Design capacity of the water treatment works (MI/d) Regional Output 1319 MI/d provide in YKSDETAILS updated as of Jan 2024 4 Volume supplied: • Daily average (MI/d)				
Regional Output 1319 MI/d provide in YKSDE IAILS updated as of Jan 2024 4 Volume supplied: • Daily average (MI/d)				
 volume supplied: Daily average (MI/d) 				
 ○ Daily average (MI/d) 				
 Daily maximum (MI/d) 				
[Please include a commentary if there are any constraints on deployable output due to limitations associated with any part of the treatment process. E.g. constraints in relation to blend water or seasonal constraints]				
Regional Output 1319 MI/d as provided in YKSDETAILS updated of Jan 2024				
Maximum Output of 1478 MI/d in 2023 (c.f. 1573 MI/d in 2022)				
5 Sources of raw water (continuous/ seasonal/ standby)				
[Include names of each individual source, nature of the source (e.g., surface direct				
appropriate include detail of any existing raw water optimisation / control measure(s) that are				
in place (e.g. artificial mixing: selective withdrawal depths for abstraction: raw water				
monitoring; water column profiling; etc.)]				
Raw water for Yorkshire Water's assets comes from a combination of sources.				
Approximately 55% from raw water reservoirs, 25% from rivers, and 15% from ground water.				
These water sources have a wide array of individual challenges and solutions.				
6 I reatment processes currently employed (including pre-treatment of raw waters) [In this				
treatment. Please also indicate if bankside storage of raw water is utilised, and overage				
retention time in the reservoir!				
There is currently no dedicated treatment in place at any WTW. Although there will be variable				
elements of removal for various PFAS compounds in treatment.				
Yorkshire Water is currently participating in a DWI led investigation into treatment operations by				
Cranfield University. Output of early stages of this project indicated that some PFAS compounds,				
such as PFHxS, will require dedicated treatment processes.				
7 Service reservoirs/ beaster nume datails				
8 Water supply zones supplied and the population of each water supply zone				
[If the supply is blended with waters from other treatment works in the zone, please indicate				
the relative proportions (as %)]				
Project will include monitoring and engagement on a regional basis, and hence applies to supply of				
Water to all customers.				
The data below was included in TRODE TAILS life of January 2024				
Site				
Reference Site Name Start Date End Date Population				
Z1800124 Castleford 2024 01-Jan-24 31-Dec-24 60,701				
Z1801219 Leeds LL Robin Hood 2019 01-Jan-24 31-Dec-24 66,576				

Details of water treatment works and associated supply system

21801319 Leeds Grid 2019 01-Jan-24 31-Dec-24 76,292 21801424 Leeds HL Cross Gates and Scholes 2019 01-Jan-24 31-Dec-24 76,906 21801519 Leeds HL Harehills 2024 01-Jan-24 31-Dec-24 35,826 21801524 Leeds HL Harehills 2024 01-Jan-24 31-Dec-24 35,826 21801719 Leeds HL Harewoord and Shadwell 2024 01-Jan-24 31-Dec-24 65,893 21801824 Leeds HL Hawksworth and Gledhow 2019 01-Jan-24 31-Dec-24 76,898 21801819 Leeds LL Bramhope and Alwoodley 2019 01-Jan-24 31-Dec-24 76,908 21802219 Leeds LL Burley and Tinshill 2019 01-Jan-24 31-Dec-24 46,824 21802619 Goole 2019 01-Jan-24 31-Dec-24 76,908 21805217 Morley Ossett 2017 01-Jan-24 31-Dec-24 74,349 2180524 Morley Penfield 2024 01-Jan-24 31-Dec-24 26,253 21807024 Pontefract and Featherstone 2024 01-Jan-24 31-Dec-24 26,253 21807024 Pontefract and Featherstone 2024 01-Jan-24 31-Dec-24 36,	Details of We		Joyotom		
21801519 Leeds HL Bramley 2024 01-Jan-24 31-Dec-24 75,906 21801519 Leeds HL Cross Gates and Scholes 2019 01-Jan-24 31-Dec-24 75,906 21801624 Leeds HL Harewood and Shadwell 2024 01-Jan-24 31-Dec-24 63,973 21801719 Leeds HL Hawksworth and Gledhow 2019 01-Jan-24 31-Dec-24 63,973 21801819 Leeds HL Heakingley 2019 01-Jan-24 31-Dec-24 26,711 2180219 Leeds LL Gramhope and Alwoodley 2019 01-Jan-24 31-Dec-24 46,824 2180219 Leeds LL Bramhope and Alwoodley 2019 01-Jan-24 31-Dec-24 46,824 21802219 Leeds LL Burley and Holbeck 2019 01-Jan-24 31-Dec-24 46,824 21802624 Knottingley and Ackworth 2024 01-Jan-24 31-Dec-24 47,349 21805617 Morley Ossett 2017 01-Jan-24 31-Dec-24 50,780 2180524 Morley Penfield 2024 01-Jan-24 31-Dec-24 56,553 21807619 Salby 2019 01-Jan-24 31-Dec-24 56,553 21807619 Salby 2019 01-Jan-24 31-Dec-24 56,539	Z1801319	Leeds Grid 2019	01-Jan-24	31-Dec-24	76,292
21801519 Leeds HL Cross Gates and Scholes 2019 01-Jan-24 31-Dec-24 40,349 21801524 Leeds HL Harehills 2024 01-Jan-24 31-Dec-24 63,873 21801719 Leeds HL Harehills 2024 01-Jan-24 31-Dec-24 63,973 21801814 Leeds HL Headingley 2019 01-Jan-24 31-Dec-24 57,898 21801824 Leeds HL Wortley and Armley 2024 01-Jan-24 31-Dec-24 26,711 21802019 Leeds LL Gross Green 2019 01-Jan-24 31-Dec-24 46,824 21802619 Leeds LL Burley and Holbeck 2019 01-Jan-24 31-Dec-24 46,824 21802619 Goole 2019 01-Jan-24 31-Dec-24 46,824 21802619 Goole 2019 01-Jan-24 31-Dec-24 46,824 21805617 Morley Dessett 2017 01-Jan-24 31-Dec-24 26,253 21805624 Morley Penfield 2024 01-Jan-24 31-Dec-24 26,253 21807024 Pontefract and Featherstone 2024 01-Jan-24 31-Dec-24 55,553 21807819 Tadcaster and Wetherby 2019 01-Jan-24 31-Dec-24 36,557 <t< td=""><td>Z1801424</td><td>Leeds HL Bramley 2024</td><td>01-Jan-24</td><td>31-Dec-24</td><td>50,279</td></t<>	Z1801424	Leeds HL Bramley 2024	01-Jan-24	31-Dec-24	50,279
21801524 Leeds HL Harehuis 2024 01-Jan-24 31-Dec-24 35,826 21801624 Leeds HL Harewood and Shadwell 2024 01-Jan-24 31-Dec-24 35,826 21801819 Leeds HL Hawksworth and Glechow 2019 01-Jan-24 31-Dec-24 25,789 21801824 Leeds HL Bramhope and Alwoodley 2019 01-Jan-24 31-Dec-24 26,771 21802219 Leeds LL Bramhope and Alwoodley 2019 01-Jan-24 31-Dec-24 46,824 21802219 Leeds LL Burley and Holbeck 2019 01-Jan-24 31-Dec-24 46,824 21802624 Knottingley and Ackworth 2024 01-Jan-24 31-Dec-24 46,824 21805617 Moriey Penfield 2024 01-Jan-24 31-Dec-24 26,253 21805224 Moriey Penfield 2024 01-Jan-24 31-Dec-24 26,253 21807619 Selby 2019 01-Jan-24 31-Dec-24 26,253 21807624 Wakefield City North 2024 01-Jan-24 31-Dec-24 59,563 21807619 Selby 2019 01-Jan-24 31-Dec-24 59,563 21807619 Selby 2019 01-Jan-24 31-Dec-24 59,563	Z1801519	Leeds HL Cross Gates and Scholes 2019	01-Jan-24	31-Dec-24	75,906
21801764 Leeds HL Harewood and Shadwell 2024 01-Jan-24 31-Dec-24 63,973 21801719 Leeds HL Heakwsworth and Gledhow 2019 01-Jan-24 31-Dec-24 25,898 21801819 Leeds HL Wortley and Armley 2024 01-Jan-24 31-Dec-24 22,657 21802019 Leeds LL Bramhope and Alwoodley 2019 01-Jan-24 31-Dec-24 22,657 21802019 Leeds LL Gross Green 2019 01-Jan-24 31-Dec-24 46,824 21802619 Goole 2019 01-Jan-24 31-Dec-24 46,824 21802619 Goole 2019 01-Jan-24 31-Dec-24 46,824 21802614 Knottingley and Ackworth 2024 01-Jan-24 31-Dec-24 26,253 21805824 Morley Penfield 2024 01-Jan-24 31-Dec-24 26,253 21805024 Outwood 2024 01-Jan-24 31-Dec-24 26,253 21807024 Pontefract and Featherstone 2024 01-Jan-24 31-Dec-24 36,657 21807024 Vakefield City South 2024 01-Jan-24 31-Dec-24 36,657 21808024 Wakefield City South 2024 01-Jan-24 31-Dec-24 43,088	Z1801524	Leeds HL Harehills 2024	01-Jan-24	31-Dec-24	40,349
21801719 Leeds HL Hawksworth and Gledhow 2019 01-Jan-24 31-Dec-24 63.973 21801819 Leeds HL Headingley 2019 01-Jan-24 31-Dec-24 26.711 218018191 Leeds LL Bramhope and Alwoodley 2019 01-Jan-24 31-Dec-24 22.657 2180219 Leeds LL Cross Green 2019 01-Jan-24 31-Dec-24 46.824 21802619 Goole 2019 01-Jan-24 31-Dec-24 46.824 21802624 Knottingley and Ackworth 2024 01-Jan-24 31-Dec-24 44.548 21805824 Morley Penfield 2024 01-Jan-24 31-Dec-24 24.552 21806024 Outwood 2024 01-Jan-24 31-Dec-24 26.253 21807519 Selby 2019 01-Jan-24 31-Dec-24 59.573 21807819 Tadester and Wetherby 2019 01-Jan-24 31-Dec-24 59.9573 21807819 Selby 2019 01-Jan-24 31-Dec-24 59.953 21807819 Tadester and Wetherby 2019 01-Jan-24 31-Dec-24 59.953 21807819 Tadester and Wetherby 2024 01-Jan-24 31-Dec-24 59.953 21808024 <	Z1801624	Leeds HL Harewood and Shadwell 2024	01-Jan-24	31-Dec-24	35,826
21801819 Leeds HL Headingley 2019 01-Jan-24 31-Dec-24 57,898 21801824 Leeds LL Bramhope and Alwoodley 2019 01-Jan-24 31-Dec-24 22,657 218012019 Leeds LL Cross Green 2019 01-Jan-24 31-Dec-24 24,960 2180219 Leeds LL Burley and Holbeck 2019 01-Jan-24 31-Dec-24 44,960 21802219 Leeds LL Burley and Holbeck 2019 01-Jan-24 31-Dec-24 44,548 21802624 Knottingley and Ackworth 2024 01-Jan-24 31-Dec-24 74,349 21805517 Morley Ossett 2017 01-Jan-24 31-Dec-24 26,253 21805624 Morley Penfield 2024 01-Jan-24 31-Dec-24 59,797 21805717 Morley Ossett 2019 01-Jan-24 31-Dec-24 59,553 21807024 Pontefract and Featherstone 2024 01-Jan-24 31-Dec-24 59,553 21807819 Tadcaster and Wetherby 2019 01-Jan-24 31-Dec-24 59,536 21807924 Wakefield City SAM 2024 01-Jan-24 31-Dec-24 44,308 22800624 Wakefield City SAM 2024 01-Jan-24 31-Dec-24 45,5936	Z1801719	Leeds HL Hawksworth and Gledhow 2019	01-Jan-24	31-Dec-24	63,973
21801824 Leeds LL Worltey and Armley 2024 01-Jan-24 31-Dec-24 22,657 21802019 Leeds LL Cross Green 2019 01-Jan-24 31-Dec-24 22,657 21802019 Leeds LL Horsforth and Tinshill 2019 01-Jan-24 31-Dec-24 34,960 21802219 Leeds LL Burley and Holbeck 2019 01-Jan-24 31-Dec-24 46,824 21802624 Knottingley and Ackworth 2024 01-Jan-24 31-Dec-24 47,349 21805824 Morley Penfield 2024 01-Jan-24 31-Dec-24 26,253 21807024 Pontefract and Featherstone 2024 01-Jan-24 31-Dec-24 59,797 21807519 Selby 2019 01-Jan-24 31-Dec-24 59,553 21807024 Wakefield City North 2024 01-Jan-24 31-Dec-24 59,553 21807024 Wakefield City SAM 2024 01-Jan-24 31-Dec-24 59,936 21808024 Wakefield City SAM 2024 01-Jan-24 31-Dec-24 55,936 22800819 Catterick and Richmond 2019 01-Jan-24 31-Dec-24 55,936 22800819 Catterick and Richmond 2019 01-Jan-24 31-Dec-24 46,657	Z1801819	Leeds HL Headingley 2019	01-Jan-24	31-Dec-24	57,898
21802019 Leeds LL Bramhope and Alwoodley 2019 01-Jan-24 31-Dec-24 22,657 21802019 Leeds LL Cross Green 2019 01-Jan-24 31-Dec-24 46,824 21802219 Leeds LL Burley and Holbeck 2019 01-Jan-24 31-Dec-24 46,824 21802624 Knottingley and Ackworth 2024 01-Jan-24 31-Dec-24 46,824 21805517 Morley Ossett 2017 01-Jan-24 31-Dec-24 74,349 21805624 Morley Penfield 2024 01-Jan-24 31-Dec-24 26,253 21805024 Outwood 2024 01-Jan-24 31-Dec-24 59,797 21805024 Wakefield City North 2024 01-Jan-24 31-Dec-24 58,553 21807024 Pontefract and Featherstone 2024 01-Jan-24 31-Dec-24 58,553 21808024 Wakefield City North 2024 01-Jan-24 31-Dec-24 58,953 21808024 Wakefield City South 2024 01-Jan-24 31-Dec-24 44,308 22800624 Beverley 2024 01-Jan-24 31-Dec-24 32,966 22800719 Boroughbridge 2019 01-Jan-24 31-Dec-24 32,867 22	Z1801824	Leeds HL Wortley and Armley 2024	01-Jan-24	31-Dec-24	26,711
Z1802019 Leeds LL Cross Green 2019 01-Jan-24 31-Dec-24 76,908 Z180219 Leeds LL Burley and Holbeck 2019 01-Jan-24 31-Dec-24 46,824 Z1802219 Leeds LL Burley and Holbeck 2019 01-Jan-24 31-Dec-24 46,824 Z1802624 Knottingley and Ackworth 2024 01-Jan-24 31-Dec-24 74,349 Z1805824 Morley Ossett 2017 01-Jan-24 31-Dec-24 26,253 Z1806024 Outwood 2024 01-Jan-24 31-Dec-24 26,253 Z1807024 Pontefract and Featherstone 2024 01-Jan-24 31-Dec-24 59,553 Z180719 Tadcaster and Wetherby 2019 01-Jan-24 31-Dec-24 59,553 Z180719 Tadcaster and Wetherby 2019 01-Jan-24 31-Dec-24 57,956 Z1808024 Wakefield City North 2024 01-Jan-24 31-Dec-24 57,936 Z1808024 Wakefield City SAM 2024 01-Jan-24 31-Dec-24 37,966 Z1808024 Wakefield City SAM 2024 01-Jan-24 31-Dec-24 32,966 Z2800624 Beverley 2024 01-Jan-24 31-Dec-24 32,966 <	Z1801919	Leeds LL Bramhope and Alwoodley 2019	01-Jan-24	31-Dec-24	22,657
Z1802119 Leeds LL Horsforth and Tinshill 2019 01-Jan-24 31-Dec-24 34,960 Z1802219 Leeds LL Burley and Holbeck 2019 01-Jan-24 31-Dec-24 46,824 Z1802624 Knotlingley and Ackworth 2024 01-Jan-24 31-Dec-24 50,780 Z1805517 Morley Penfield 2024 01-Jan-24 31-Dec-24 74,349 Z1805024 Outwood 2024 01-Jan-24 31-Dec-24 59,797 Z18077024 Pontefract and Featherstone 2024 01-Jan-24 31-Dec-24 59,553 Z18077024 Pontefract and Featherstone 2024 01-Jan-24 31-Dec-24 59,797 Z18077024 Pontefract and Featherstone 2024 01-Jan-24 31-Dec-24 59,793 Z1807819 Tadcaster and Wetherby 2019 01-Jan-24 31-Dec-24 57,191 Z1808024 Wakefield City North 2024 01-Jan-24 31-Dec-24 55,936 Z2800619 Catterick and Richmond 2019 01-Jan-24 31-Dec-24 32,966 Z2800719 Boroughbridge 2019 01-Jan-24 31-Dec-24 30,424 Z28017	Z1802019	Leeds LL Cross Green 2019	01-Jan-24	31-Dec-24	76,908
Z1802219 Leeds LL Burley and Holbeck 2019 01-Jan-24 31-Dec-24 46,824 Z1802619 Goole 2019 01-Jan-24 31-Dec-24 44,548 Z1802624 Knottingley and Ackworth 2024 01-Jan-24 31-Dec-24 74,349 Z1805824 Morley Denfield 2024 01-Jan-24 31-Dec-24 26,253 Z1807024 Pontefract and Featherstone 2024 01-Jan-24 31-Dec-24 59,553 Z1807024 Pontefract and Featherstone 2024 01-Jan-24 31-Dec-24 59,553 Z1807819 Tadcaster and Wetherby 2019 01-Jan-24 31-Dec-24 59,553 Z1808024 Wakefield City North 2024 01-Jan-24 31-Dec-24 57,191 Z1808024 Wakefield City SAU 2024 01-Jan-24 31-Dec-24 53,366 Z2800719 Boroughbridge 2019 01-Jan-24 31-Dec-24 53,936 Z2800719 Boroughbridge 2019 01-Jan-24 31-Dec-24 32,966 Z2800719 Boroughbridge 2019 01-Jan-24 31-Dec-24 34,817 Z2801719 Boroughbridge 2019 <td>Z1802119</td> <td>Leeds LL Horsforth and Tinshill 2019</td> <td>01-Jan-24</td> <td>31-Dec-24</td> <td>34,960</td>	Z1802119	Leeds LL Horsforth and Tinshill 2019	01-Jan-24	31-Dec-24	34,960
Z1802619 Goole 2019 01-Jan-24 31-Dec-24 44,548 Z1802624 Knottingley and Ackworth 2024 01-Jan-24 31-Dec-24 74,349 Z1805517 Morley Penfield 2024 01-Jan-24 31-Dec-24 21,552 Z1806024 Outwood 2024 01-Jan-24 31-Dec-24 26,253 Z1807519 Selby 2019 01-Jan-24 31-Dec-24 59,753 Z1807819 Tadcaster and Wetherby 2019 01-Jan-24 31-Dec-24 57,191 Z1808024 Wakefield City North 2024 01-Jan-24 31-Dec-24 57,191 Z1808024 Wakefield City SAM 2024 01-Jan-24 31-Dec-24 57,086 Z2800624 Beverley 2024 01-Jan-24 31-Dec-24 55,936 Z2800719 Boroughbridge 2019 01-Jan-24 31-Dec-24 24,871 Z2800819 Catterick and Richmond 2019 01-Jan-24 31-Dec-24 24,871 Z2801719 Baidlington 2019 01-Jan-24 31-Dec-24 24,871 Z2801719 Harogate North 2019 01-Jan-24 31-Dec-24 </td <td>Z1802219</td> <td>Leeds LL Burley and Holbeck 2019</td> <td>01-Jan-24</td> <td>31-Dec-24</td> <td>46,824</td>	Z1802219	Leeds LL Burley and Holbeck 2019	01-Jan-24	31-Dec-24	46,824
Z1802624 Knottingley and Ackworth 2024 01-Jan-24 31-Dec-24 50,780 Z1805517 Morley Ossett 2017 01-Jan-24 31-Dec-24 21,552 Z1805624 Morley Penfield 2024 01-Jan-24 31-Dec-24 26,253 Z1807024 Pontefract and Featherstone 2024 01-Jan-24 31-Dec-24 59,797 Z1807519 Selby 2019 01-Jan-24 31-Dec-24 59,553 Z1807819 Tadcaster and Wetherby 2019 01-Jan-24 31-Dec-24 57,191 Z1808024 Wakefield City North 2024 01-Jan-24 31-Dec-24 55,936 Z1800624 Wakefield City South 2024 01-Jan-24 31-Dec-24 55,936 Z2800719 Boroughbridge 2019 01-Jan-24 31-Dec-24 32,966 Z2800824 Cottingham 2024 01-Jan-24 31-Dec-24 34,811 Z2800129 Bridlington 2019 01-Jan-24 31-Dec-24 34,811 Z2800129 Bridlington 2019 01-Jan-24 31-Dec-24 34,811 Z2801719 Easingwold 2019 01-Jan-24	Z1802619	Goole 2019	01-Jan-24	31-Dec-24	44,548
Z1805517 Morley Ossett 2017 01-Jan-24 31-Dec-24 74,349 Z1805624 Morley Penfield 2024 01-Jan-24 31-Dec-24 21,552 Z1806024 Outwood 2024 01-Jan-24 31-Dec-24 26,253 Z1807024 Pontefract and Featherstone 2024 01-Jan-24 31-Dec-24 59,553 Z1807519 Selby 2019 01-Jan-24 31-Dec-24 58,553 Z1807819 Tadcaster and Wetherby 2019 01-Jan-24 31-Dec-24 57,191 Z1808524 Wakefield City SAM 2024 01-Jan-24 31-Dec-24 57,191 Z1808524 Wakefield City SAM 2024 01-Jan-24 31-Dec-24 55,936 Z2800624 Beverley 2024 01-Jan-24 31-Dec-24 55,936 Z2800719 Boroughbridge 2019 01-Jan-24 31-Dec-24 32,966 Z2800719 Cattingham 2024 01-Jan-24 31-Dec-24 34,871 Z280129 Bridlington 2019 01-Jan-24 31-Dec-24 34,424 Z2801719 Easingwold 2019 01-Jan-24 31-Dec-24	Z1802624	Knottingley and Ackworth 2024	01-Jan-24	31-Dec-24	50,780
Z1805824 Morley Penfield 2024 01-Jan-24 31-Dec-24 21,552 Z1807024 Pontefract and Featherstone 2024 01-Jan-24 31-Dec-24 59,797 Z18077024 Pontefract and Featherstone 2024 01-Jan-24 31-Dec-24 59,797 Z18077024 Pontefract and Featherstone 2024 01-Jan-24 31-Dec-24 59,753 Z1807719 Selby 2019 01-Jan-24 31-Dec-24 59,753 Z1808024 Wakefield City North 2024 01-Jan-24 31-Dec-24 37,086 Z1808024 Wakefield City South 2024 01-Jan-24 31-Dec-24 44,308 Z2800624 Beverley 2024 01-Jan-24 31-Dec-24 44,308 Z2800719 Boroughbridge 2019 01-Jan-24 31-Dec-24 42,871 Z2800819 Catterick and Richmond 2019 01-Jan-24 31-Dec-24 42,871 Z2801919 Bridlington 2019 01-Jan-24 31-Dec-24 42,871 Z2801719 Easingwold 2019 01-Jan-24 31-Dec-24 42,709 Z280219 Harrogate North 2019 01-Jan-24 31-Dec-24 42,709 Z2802819 Ha	Z1805517	Morley Ossett 2017	01-Jan-24	31-Dec-24	74,349
Z1806024 Outwood 2024 01-Jan-24 31-Dec-24 26,253 Z1807024 Pontefract and Featherstone 2024 01-Jan-24 31-Dec-24 59,797 Z1807519 Selby 2019 01-Jan-24 31-Dec-24 59,797 Z1807519 Selby 2019 01-Jan-24 31-Dec-24 58,553 Z1808024 Wakefield City North 2024 01-Jan-24 31-Dec-24 57,191 Z1808024 Wakefield City South 2024 01-Jan-24 31-Dec-24 44,308 Z2800624 Beverley 2024 01-Jan-24 31-Dec-24 55,936 Z2800719 Boroughbridge 2019 01-Jan-24 31-Dec-24 24,871 Z2800824 Catterick and Richmond 2019 01-Jan-24 31-Dec-24 24,871 Z2801719 Boridlington 2019 01-Jan-24 31-Dec-24 24,871 Z2801719 Easingwold 2019 01-Jan-24 31-Dec-24 24,871 Z2801719 Easingwold 2019 01-Jan-24 31-Dec-24 24,871 Z2802719 Harrogate North 2019 01-Jan-24 31-Dec-24 24,442 Z2803019 Holderness 2019 01-Jan-24	Z1805824	Morley Penfield 2024	01-Jan-24	31-Dec-24	21,552
Z1807024 Pontefract and Featherstone 2024 01-Jan-24 31-Dec-24 59,797 Z1807519 Selby 2019 01-Jan-24 31-Dec-24 59,553 Z1807819 Tadcaster and Wetherby 2019 01-Jan-24 31-Dec-24 57,191 Z180824 Wakefield City North 2024 01-Jan-24 31-Dec-24 57,191 Z180824 Wakefield City SAM 2024 01-Jan-24 31-Dec-24 55,936 Z2800524 Beverley 2024 01-Jan-24 31-Dec-24 55,936 Z2800719 Boroughbridge 2019 01-Jan-24 31-Dec-24 55,936 Z2800819 Catterick and Richmond 2019 01-Jan-24 31-Dec-24 24,871 Z2801519 Driffield 2019 01-Jan-24 31-Dec-24 24,871 Z2801719 Easingwold 2019 01-Jan-24 31-Dec-24 30,424 Z2801719 Easingwold 2019 01-Jan-24 31-Dec-24 44,777 Z2802719 Harrogate North 2019 01-Jan-24 31-Dec-24 44,620 Z2803019 Holderness 2019 01-Jan-24 31-Dec-2	Z1806024	Outwood 2024	01-Jan-24	31-Dec-24	26,253
Z1807519 Selby 2019 01-Jan-24 31-Dec-24 59,553 Z1807819 Tadcaster and Wetherby 2019 01-Jan-24 31-Dec-24 38,657 Z1808024 Wakefield City North 2024 01-Jan-24 31-Dec-24 57,191 Z1808024 Wakefield City SAM 2024 01-Jan-24 31-Dec-24 57,191 Z1809024 Wakefield City South 2024 01-Jan-24 31-Dec-24 43,088 Z2800619 Beverley 2024 01-Jan-24 31-Dec-24 55,936 Z2800719 Boroughbridge 2019 01-Jan-24 31-Dec-24 25,936 Z280019 Catterick and Richmond 2019 01-Jan-24 31-Dec-24 26,6539 Z2801519 Driffield 2019 01-Jan-24 31-Dec-24 26,6539 Z2801519 Driffield 2019 01-Jan-24 31-Dec-24 42,709 Z2802719 Harrogate North 2019 01-Jan-24 31-Dec-24 44,620 Z280303 Esk Valley 2004 01-Jan-24 31-Dec-24 44,620 Z280303 Esk Valley 2004 01-Jan-24 31-Dec-24 44,620 Z280303 Esk Valley 2004 01-Jan-24 <td>Z1807024</td> <td>Pontefract and Featherstone 2024</td> <td>01-Jan-24</td> <td>31-Dec-24</td> <td>59,797</td>	Z1807024	Pontefract and Featherstone 2024	01-Jan-24	31-Dec-24	59,797
Z1807819Tadcaster and Wetherby 201901-Jan-2431-Dec-2438,657Z1808024Wakefield City North 202401-Jan-2431-Dec-2457,191Z1808524Wakefield City South 202401-Jan-2431-Dec-2437,086Z1809024Wakefield City South 202401-Jan-2431-Dec-2444,308Z2800624Beverley 202401-Jan-2431-Dec-2455,936Z2800719Boroughbridge 201901-Jan-2431-Dec-2432,966Z2800819Catterick and Richmond 201901-Jan-2431-Dec-2424,871Z2801519Driffield 201901-Jan-2431-Dec-2436,539Z2801719Easingwold 201901-Jan-2431-Dec-2430,424Z2801719Easingwold 201901-Jan-2431-Dec-2423,615Z2801724Gipsyville 202401-Jan-2431-Dec-2442,709Z2802819Harrogate North 201901-Jan-2431-Dec-2444,620Z2803019Holdeness 201901-Jan-2431-Dec-2434,431Z2803019Holdeness 201901-Jan-2431-Dec-2424,620Z2804519Knaresborough 201901-Jan-2431-Dec-2426,665Z2804524Hull Bransholme 202401-Jan-2431-Dec-2426,665Z2804524Hull Bearsholme 202401-Jan-2431-Dec-2426,665Z2804524Hull Bearsholme 202401-Jan-2431-Dec-2426,665Z280469Hull Central West 202401-Jan-2431-Dec-2436,56Z2804524Hull Bransholm	Z1807519	Selby 2019	01-Jan-24	31-Dec-24	59,553
Z1808024 Wakefield City North 2024 01-Jan-24 31-Dec-24 57,191 Z1808524 Wakefield City SAM 2024 01-Jan-24 31-Dec-24 37,086 Z1809024 Wakefield City South 2024 01-Jan-24 31-Dec-24 44,308 Z2800624 Beverley 2024 01-Jan-24 31-Dec-24 55,936 Z2800719 Boroughbridge 2019 01-Jan-24 31-Dec-24 22,966 Z2800924 Cottingham 2024 01-Jan-24 31-Dec-24 24,871 Z2801719 Bridlington 2019 01-Jan-24 31-Dec-24 26,6539 Z2801719 Easingwold 2019 01-Jan-24 31-Dec-24 23,615 Z2801719 Easingwold 2019 01-Jan-24 31-Dec-24 42,709 Z2802719 Harrogate North 2019 01-Jan-24 31-Dec-24 44,620 Z280303 Esk Valley 2004 01-Jan-24 31-Dec-24 44,620 Z2804319 Hordeness 2019 01-Jan-24 31-Dec-24 44,620 Z2804319 Knaresborough 2019 01-Jan-24 31-Dec-24 29,512 Z2804519 Horesa 2019 01-Jan-24 31-D	Z1807819	Tadcaster and Wetherby 2019	01-Jan-24	31-Dec-24	38,657
Z1808524Wakefield City SAM 202401-Jan-2431-Dec-2437,086Z1809024Wakefield City South 202401-Jan-2431-Dec-2444,308Z2800624Beverley 202401-Jan-2431-Dec-2445,5936Z2800719Boroughbridge 201901-Jan-2431-Dec-2432,966Z2800924Catterick and Richmond 201901-Jan-2431-Dec-2424,871Z2801219Bridlington 201901-Jan-2431-Dec-2424,871Z2801719Easingwold 201901-Jan-2431-Dec-2430,424Z2801719Easingwold 201901-Jan-2431-Dec-2423,615Z2801719Easingwold 201901-Jan-2431-Dec-2444,620Z2802719Harrogate North 201901-Jan-2431-Dec-2444,620Z2803003Esk Valley 200401-Jan-2431-Dec-2444,620Z2803019Holderness 201901-Jan-2431-Dec-2444,620Z2804319Knaresborough 201901-Jan-2431-Dec-2429,512Z2804419Howden 201901-Jan-2431-Dec-2420,373Z2804524Hull Bransholme 202401-Jan-2431-Dec-2420,373Z2804524Hull Central West 202401-Jan-2431-Dec-2426,665Z2804669Hull Central West 202401-Jan-2431-Dec-2426,665Z2804669Hull Central West 202401-Jan-2431-Dec-2438,156Z2804524Hull Bast 201901-Jan-2431-Dec-2427,551Z2804519Matter Weighton 201901-	Z1808024	Wakefield City North 2024	01-Jan-24	31-Dec-24	57,191
Z1809024 Wakefield City South 2024 01-Jan-24 31-Dec-24 44,308 Z2800624 Beverley 2024 01-Jan-24 31-Dec-24 55,936 Z2800719 Boroughbridge 2019 01-Jan-24 31-Dec-24 32,966 Z2800819 Catterick and Richmond 2019 01-Jan-24 31-Dec-24 32,966 Z2800924 Cottingham 2024 01-Jan-24 31-Dec-24 32,966 Z2801519 Driffield 2019 01-Jan-24 31-Dec-24 30,424 Z2801719 Easingwold 2019 01-Jan-24 31-Dec-24 30,424 Z2801724 Gipsyville 2024 01-Jan-24 31-Dec-24 42,709 Z2802819 Harrogate North 2019 01-Jan-24 31-Dec-24 44,620 Z2803018 Haltongate South 2019 01-Jan-24 31-Dec-24 44,620 Z2803019 Holderness 2019 01-Jan-24 31-Dec-24 44,620 Z2804319 Knaresborough 2019 01-Jan-24 31-Dec-24 44,620 Z2804419 Holderness 2019 01-Jan-24 31-Dec-24 46,620 Z28044524 Hull Bransholme 2024 01-Jan-24	Z1808524	Wakefield City SAM 2024	01-Jan-24	31-Dec-24	37,086
Z2800624 Beverley 2024 01-Jan-24 31-Dec-24 55,936 Z2800719 Boroughbridge 2019 01-Jan-24 31-Dec-24 15,819 Z2800819 Catterick and Richmond 2019 01-Jan-24 31-Dec-24 32,966 Z280024 Cottingham 2024 01-Jan-24 31-Dec-24 24,871 Z2801219 Bridlington 2019 01-Jan-24 31-Dec-24 26,539 Z2801719 Easingwold 2019 01-Jan-24 31-Dec-24 30,424 Z2801724 Gipsyville 2024 01-Jan-24 31-Dec-24 41,777 Z2802819 Harrogate North 2019 01-Jan-24 31-Dec-24 42,709 Z2803003 Esk Valley 2004 01-Jan-24 31-Dec-24 44,620 Z2803019 Holderness 2019 01-Jan-24 31-Dec-24 44,620 Z2804319 Knaresborough 2019 01-Jan-24 31-Dec-24 44,620 Z2804419 Howden 2019 01-Jan-24 31-Dec-24 41,825 Z2804519 Horrsea 2019 01-Jan-24 31-Dec-24 16,745	Z1809024	Wakefield City South 2024	01-Jan-24	31-Dec-24	44,308
Z2800719Boroughbridge 201901-Jan-2431-Dec-2415,819Z2800819Catterick and Richmond 201901-Jan-2431-Dec-2432,966Z2801219Bridlington 201901-Jan-2431-Dec-2424,871Z2801519Driffield 201901-Jan-2431-Dec-2424,871Z2801719Easingwold 201901-Jan-2431-Dec-2430,424Z2801719Easingwold 201901-Jan-2431-Dec-2423,615Z2802719Harrogate North 201901-Jan-2431-Dec-2442,709Z2802819Harrogate South 201901-Jan-2431-Dec-2444,620Z2803013Esk Valley 200401-Jan-2431-Dec-2444,620Z2804319Knaresborough 201901-Jan-2431-Dec-2444,825Z2804319Knaresborough 201901-Jan-2431-Dec-2444,620Z2804419Howden 201901-Jan-2431-Dec-2429,512Z2804524Hull Bransholme 202401-Jan-2431-Dec-2420,373Z2804524Hull Bransholme 202401-Jan-2431-Dec-2426,665Z2804629Hull Central West 202401-Jan-2431-Dec-2426,665Z2804819Malton 201901-Jan-2431-Dec-2438,156Z2804824Kirk Ella & Hessle 202401-Jan-2431-Dec-2447,065Z2804824Malton 201901-Jan-2431-Dec-2447,2551Z2804819Malton 201901-Jan-2431-Dec-2447,255Z2804824Malton 201901-Jan-2431-Dec-24<	Z2800624	Beverley 2024	01-Jan-24	31-Dec-24	55,936
Z2800819Catterick and Richmond 201901-Jan-2431-Dec-2432,966Z2800924Cottingham 202401-Jan-2431-Dec-2424,871Z2801219Bridlington 201901-Jan-2431-Dec-2426,539Z2801519Driffield 201901-Jan-2431-Dec-2430,424Z2801719Easingwold 201901-Jan-2431-Dec-2423,615Z2801724Gipsyville 202401-Jan-2431-Dec-2442,709Z2802819Harrogate North 201901-Jan-2431-Dec-2442,709Z280303Esk Valley 200401-Jan-2431-Dec-2444,620Z280309Holderness 201901-Jan-2431-Dec-2444,620Z2804319Knaresborough 201901-Jan-2431-Dec-2444,825Z2804519Hornsea 201901-Jan-2431-Dec-2429,512Z2804524Hull Bransholme 202401-Jan-2431-Dec-2420,373Z2804524Hull East 201901-Jan-2431-Dec-2426,665Z2804669Hull East 201901-Jan-2431-Dec-2426,665Z2804629Hull East 201901-Jan-2431-Dec-2438,156Z2804819Malton 201901-Jan-2431-Dec-2438,156Z2804824Kirk Ella & Hessle 202401-Jan-2431-Dec-2447,065Z2804819Malton 201901-Jan-2431-Dec-2447,251Z2805519Northallerton and Thirsk 201901-Jan-2431-Dec-2447,255Z2806719Pateley Bridge and Ripon 201901-Jan-2431-Dec-	Z2800719	Boroughbridge 2019	01-Jan-24	31-Dec-24	15,819
Z2800924Cottingham 202401-Jan-2431-Dec-2424,871Z2801219Bridlington 201901-Jan-2431-Dec-2456,539Z2801519Driffield 201901-Jan-2431-Dec-2430,424Z2801719Easingwold 201901-Jan-2431-Dec-2423,615Z2801724Gipsyville 202401-Jan-2431-Dec-2442,709Z2802719Harrogate North 201901-Jan-2431-Dec-2442,709Z2802819Harrogate South 201901-Jan-2431-Dec-2444,620Z2803003Esk Valley 200401-Jan-2431-Dec-2444,620Z2804319Holderness 201901-Jan-2431-Dec-2444,620Z2804319Knaresborough 201901-Jan-2431-Dec-2429,512Z2804419Howden 201901-Jan-2431-Dec-2420,373Z2804524Hull Bransholme 202401-Jan-2431-Dec-2466,920Z2804624Hull Central West 202401-Jan-2431-Dec-2466,920Z2804624Hull Central West 202401-Jan-2431-Dec-2472,551Z2804724Inglemire 202401-Jan-2431-Dec-2472,551Z2804819Malton 201901-Jan-2431-Dec-2457,231Z2805519Northallerton and Thirsk 201901-Jan-2431-Dec-2457,231Z2805624North Ferriby and Swanland 202401-Jan-2431-Dec-2437,827Z2806719Pateley Bridge and Ripon 201901-Jan-2431-Dec-2437,827Z2806719Pateley Bridge and Ripon 20	Z2800819	Catterick and Richmond 2019	01-Jan-24	31-Dec-24	32,966
Z2801219Bridlington 201901-Jan-2431-Dec-2456,539Z2801519Driffield 201901-Jan-2431-Dec-2430,424Z2801719Easingwold 201901-Jan-2431-Dec-2423,615Z2801724Gipsyville 202401-Jan-2431-Dec-2441,777Z2802719Harrogate North 201901-Jan-2431-Dec-2442,709Z280303Esk Valley 200401-Jan-2431-Dec-2444,620Z2803019Holderness 201901-Jan-2431-Dec-2444,825Z2804319Knaresborough 201901-Jan-2431-Dec-2429,512Z2804519Hornsea 201901-Jan-2431-Dec-2420,373Z2804524Hull Bansholme 202401-Jan-2431-Dec-2426,665Z2804624Hull Central West 202401-Jan-2431-Dec-2426,665Z2804624Hull Central West 202401-Jan-2431-Dec-2426,665Z2804624Hull Central West 202401-Jan-2431-Dec-2426,665Z2804819Malton 201901-Jan-2431-Dec-2438,156Z2804824Kirk Ella & Hessle 202401-Jan-2431-Dec-2438,156Z2805519Northallerton and Thirsk 201901-Jan-2431-Dec-2447,065Z2806019Pateley Bridge and Ripon 201901-Jan-2431-Dec-2437,827Z2806719Pickering 201901-Jan-2431-Dec-2437,827Z2806719Pickering 201901-Jan-2431-Dec-2435,524Z2807219Scarborough 201901-Jan-24<	Z2800924	Cottingham 2024	01-Jan-24	31-Dec-24	24,871
Z2801519Driffield 201901-Jan-2431-Dec-2430,424Z2801719Easingwold 201901-Jan-2431-Dec-2423,615Z2801724Gipsyville 202401-Jan-2431-Dec-2441,777Z2802719Harrogate North 201901-Jan-2431-Dec-2442,709Z2802819Harrogate South 201901-Jan-2431-Dec-2444,620Z2803003Esk Valley 200401-Jan-2431-Dec-2444,620Z2804319Knaresborough 201901-Jan-2431-Dec-2441,825Z2804419Howden 201901-Jan-2431-Dec-2429,512Z2804524Hull Bransholme 202401-Jan-2431-Dec-2420,373Z2804624Hull Bransholme 202401-Jan-2431-Dec-2426,665Z2804624Hull East 201901-Jan-2431-Dec-2426,665Z2804624Hull East 201901-Jan-2431-Dec-2426,665Z2804629Hull East 201901-Jan-2431-Dec-2426,665Z2804819Malton 201901-Jan-2431-Dec-2438,156Z2804819Malton 201901-Jan-2431-Dec-2438,156Z2805519Northallerton and Thirsk 201901-Jan-2431-Dec-2437,827Z2806719Pateley Bridge and Ripon 201901-Jan-2431-Dec-2437,827Z2806719Pateley Bridge and Ripon 201901-Jan-2431-Dec-2437,827Z2806719Pickering 201901-Jan-2431-Dec-2435,524Z2807219Scarborough 201901-Jan-2431-	Z2801219	Bridlington 2019	01-Jan-24	31-Dec-24	56,539
Z2801719Easingwold 201901-Jan-2431-Dec-2423,615Z2801724Gipsyville 202401-Jan-2431-Dec-2441,777Z2802719Harrogate North 201901-Jan-2431-Dec-2442,709Z2802819Harrogate South 201901-Jan-2431-Dec-2444,620Z2803003Esk Valley 200401-Jan-2431-Dec-2444,620Z2803019Holderness 201901-Jan-2431-Dec-2444,620Z2804319Knaresborough 201901-Jan-2431-Dec-2441,825Z2804419Howden 201901-Jan-2431-Dec-2429,512Z2804524Hull Bransholme 201901-Jan-2431-Dec-2420,373Z2804524Hull Central West 202401-Jan-2431-Dec-2426,665Z2804624Hull Central West 202401-Jan-2431-Dec-2472,551Z2804629Hull East 201901-Jan-2431-Dec-2438,156Z2804819Malton 201901-Jan-2431-Dec-2438,156Z2804824Kirk Ella & Hessle 202401-Jan-2431-Dec-2460,265Z2804819Malton 201901-Jan-2431-Dec-2457,231Z2805519Northallerton and Thirsk 201901-Jan-2431-Dec-2447,065Z2806019Pateley Bridge and Ripon 201901-Jan-2431-Dec-2437,827Z2806719Pickering 201901-Jan-2431-Dec-2446,392Z2807219Scarborough 201901-Jan-2431-Dec-2476,5524Z2808024Sutton Ings 202401-Jan-24 <td>Z2801519</td> <td>Driffield 2019</td> <td>01-Jan-24</td> <td>31-Dec-24</td> <td>30,424</td>	Z2801519	Driffield 2019	01-Jan-24	31-Dec-24	30,424
Z2801724Gipsyville 202401-Jan-2431-Dec-2441,777Z2802719Harrogate North 201901-Jan-2431-Dec-2442,709Z2802819Harrogate South 201901-Jan-2431-Dec-2444,620Z2803003Esk Valley 200401-Jan-2431-Dec-2434,431Z2803019Holderness 201901-Jan-2431-Dec-2444,620Z2804319Knaresborough 201901-Jan-2431-Dec-2441,825Z2804419Howden 201901-Jan-2431-Dec-2429,512Z2804524Hull Bransholme 201901-Jan-2431-Dec-2420,373Z2804524Hull Central West 202401-Jan-2431-Dec-2426,665Z2804624Hull Central West 202401-Jan-2431-Dec-2472,551Z2804624Hull Central West 202401-Jan-2431-Dec-2472,551Z2804629Hull East 201901-Jan-2431-Dec-2472,551Z2804819Malton 201901-Jan-2431-Dec-2460,265Z2804824Kirk Ella & Hessle 202401-Jan-2431-Dec-2460,265Z2804824Kirk Ella & Hessle 202401-Jan-2431-Dec-2460,265Z2805519Northallerton and Thirsk 201901-Jan-2431-Dec-2447,065Z2806019Pateley Bridge and Ripon 201901-Jan-2431-Dec-2437,827Z2806719Pickering 201901-Jan-2431-Dec-2435,524Z2807219Scarborough 201901-Jan-2431-Dec-2471,883Z2808024Sutton Ings 2024 <td>Z2801719</td> <td>Easingwold 2019</td> <td>01-Jan-24</td> <td>31-Dec-24</td> <td>23,615</td>	Z2801719	Easingwold 2019	01-Jan-24	31-Dec-24	23,615
Z2802719Harrogate North 201901-Jan-2431-Dec-2442,709Z2802819Harrogate South 201901-Jan-2431-Dec-2444,620Z2803003Esk Valley 200401-Jan-2431-Dec-2434,431Z2803019Holderness 201901-Jan-2431-Dec-2441,825Z2804319Knaresborough 201901-Jan-2431-Dec-2429,512Z2804419Howden 201901-Jan-2431-Dec-2420,373Z2804519Hornsea 201901-Jan-2431-Dec-2420,373Z2804524Hull Bransholme 202401-Jan-2431-Dec-2426,665Z2804624Hull Central West 202401-Jan-2431-Dec-2426,665Z2804629Hull East 201901-Jan-2431-Dec-2472,551Z2804819Malton 201901-Jan-2431-Dec-2438,156Z2804824Kirk Ella & Hessle 202401-Jan-2431-Dec-2460,265Z2804919Market Weighton 201901-Jan-2431-Dec-2460,265Z280519North Ferriby and Swanland 202401-Jan-2431-Dec-2477,885Z2806719Pateley Bridge and Ripon 201901-Jan-2431-Dec-2437,827Z2806719Pickering 201901-Jan-2431-Dec-2435,524Z2807219Scarborough 201901-Jan-2431-Dec-2471,883Z2808024Sutton Ings 202401-Jan-2431-Dec-2471,883	Z2801724	Gipsyville 2024	01-Jan-24	31-Dec-24	41,777
Z2802819Harrogate South 201901-Jan-2431-Dec-2444,620Z2803003Esk Valley 200401-Jan-2431-Dec-2434,431Z2803019Holderness 201901-Jan-2431-Dec-2441,825Z2804319Knaresborough 201901-Jan-2431-Dec-2429,512Z2804419Howden 201901-Jan-2431-Dec-2420,373Z2804519Hornsea 201901-Jan-2431-Dec-2420,373Z2804524Hull Bransholme 202401-Jan-2431-Dec-2466,920Z2804624Hull Central West 202401-Jan-2431-Dec-2426,665Z2804669Hull East 201901-Jan-2431-Dec-2472,551Z2804724Inglemire 202401-Jan-2431-Dec-2438,156Z2804819Malton 201901-Jan-2431-Dec-2438,156Z2804824Kirk Ella & Hessle 202401-Jan-2431-Dec-2447,065Z2804919Market Weighton 201901-Jan-2431-Dec-2447,065Z2805519Northallerton and Thirsk 201901-Jan-2431-Dec-2427,585Z2806719Pateley Bridge and Ripon 201901-Jan-2431-Dec-2437,827Z2806719Pickering 201901-Jan-2431-Dec-2446,392Z2807119Filey 201901-Jan-2431-Dec-2471,883Z2808024Sutton Ings 202401-Jan-2431-Dec-2471,883	Z2802719	Harrogate North 2019	01-Jan-24	31-Dec-24	42,709
Z2803003Esk Valley 200401-Jan-2431-Dec-2434,431Z2803019Holderness 201901-Jan-2431-Dec-2441,825Z2804319Knaresborough 201901-Jan-2431-Dec-2429,512Z2804419Howden 201901-Jan-2431-Dec-2420,373Z2804519Hornsea 201901-Jan-2431-Dec-2420,373Z2804524Hull Bransholme 202401-Jan-2431-Dec-2466,920Z2804624Hull Central West 202401-Jan-2431-Dec-2426,665Z2804669Hull East 201901-Jan-2431-Dec-2472,551Z2804724Inglemire 202401-Jan-2431-Dec-2417,209Z2804819Malton 201901-Jan-2431-Dec-2438,156Z2804824Kirk Ella & Hessle 202401-Jan-2431-Dec-2457,231Z2805519Northallerton and Thirsk 201901-Jan-2431-Dec-2447,065Z2806019Pateley Bridge and Ripon 201901-Jan-2431-Dec-2437,827Z2806719Pickering 201901-Jan-2431-Dec-2435,524Z2807219Scarborough 201901-Jan-2431-Dec-2471,883Z2808024Sutton Ings 202401-Jan-2431-Dec-2471,883	Z2802819	Harrogate South 2019	01-Jan-24	31-Dec-24	44,620
Z2803019Holderness 201901-Jan-2431-Dec-2441,825Z2804319Knaresborough 201901-Jan-2431-Dec-2429,512Z2804419Howden 201901-Jan-2431-Dec-2416,745Z2804519Hornsea 201901-Jan-2431-Dec-2420,373Z2804524Hull Bransholme 202401-Jan-2431-Dec-2466,920Z2804624Hull Central West 202401-Jan-2431-Dec-2426,665Z2804669Hull East 201901-Jan-2431-Dec-2472,551Z2804724Inglemire 202401-Jan-2431-Dec-2417,209Z2804819Malton 201901-Jan-2431-Dec-2438,156Z2804824Kirk Ella & Hessle 202401-Jan-2431-Dec-2460,265Z2804919Market Weighton 201901-Jan-2431-Dec-2457,231Z2805519Northallerton and Thirsk 201901-Jan-2431-Dec-2427,585Z2806019Pateley Bridge and Ripon 201901-Jan-2431-Dec-2437,827Z2806719Pickering 201901-Jan-2431-Dec-2437,827Z280719Filey 201901-Jan-2431-Dec-2435,524Z2807219Scarborough 201901-Jan-2431-Dec-2435,524Z2808024Sutton Ings 202401-Jan-2431-Dec-2471,883Z2808024Sutton Ings 202401-Jan-2431-Dec-2471,883	Z2803003	Esk Valley 2004	01-Jan-24	31-Dec-24	34,431
Z2804319Knaresborough 201901-Jan-2431-Dec-2429,512Z2804419Howden 201901-Jan-2431-Dec-2416,745Z2804519Hornsea 201901-Jan-2431-Dec-2420,373Z2804524Hull Bransholme 202401-Jan-2431-Dec-2466,920Z2804624Hull Central West 202401-Jan-2431-Dec-2426,665Z2804669Hull East 201901-Jan-2431-Dec-2472,551Z2804724Inglemire 202401-Jan-2431-Dec-2472,551Z2804819Malton 201901-Jan-2431-Dec-2438,156Z2804824Kirk Ella & Hessle 202401-Jan-2431-Dec-2460,265Z2804919Market Weighton 201901-Jan-2431-Dec-2457,231Z2805519Northallerton and Thirsk 201901-Jan-2431-Dec-2447,065Z2806019Pateley Bridge and Ripon 201901-Jan-2431-Dec-2437,827Z2806719Pickering 201901-Jan-2431-Dec-2435,524Z2807219Scarborough 201901-Jan-2431-Dec-2435,524Z2808024Sutton Ings 202401-Jan-2431-Dec-2471,883	Z2803019	Holderness 2019	01-Jan-24	31-Dec-24	41,825
Z2804419Howden 201901-Jan-2431-Dec-2416,745Z2804519Hornsea 201901-Jan-2431-Dec-2420,373Z2804524Hull Bransholme 202401-Jan-2431-Dec-2466,920Z2804624Hull Central West 202401-Jan-2431-Dec-2426,665Z2804669Hull East 201901-Jan-2431-Dec-2472,551Z2804724Inglemire 202401-Jan-2431-Dec-2472,551Z2804819Malton 201901-Jan-2431-Dec-2438,156Z2804824Kirk Ella & Hessle 202401-Jan-2431-Dec-2460,265Z2804919Market Weighton 201901-Jan-2431-Dec-2457,231Z2805519Northallerton and Thirsk 201901-Jan-2431-Dec-2447,065Z2806019Pateley Bridge and Ripon 201901-Jan-2431-Dec-2437,827Z2806719Pickering 201901-Jan-2431-Dec-2437,827Z280719Filey 201901-Jan-2431-Dec-2435,524Z2807219Scarborough 201901-Jan-2431-Dec-2471,883Z2808024Sutton Ings 202401-Jan-2431-Dec-2416,392	Z2804319	Knaresborough 2019	01-Jan-24	31-Dec-24	29,512
Z2804519Hornsea 201901-Jan-2431-Dec-2420,373Z2804524Hull Bransholme 202401-Jan-2431-Dec-2466,920Z2804624Hull Central West 202401-Jan-2431-Dec-2426,665Z2804669Hull East 201901-Jan-2431-Dec-2472,551Z2804724Inglemire 202401-Jan-2431-Dec-2417,209Z2804819Malton 201901-Jan-2431-Dec-2438,156Z2804824Kirk Ella & Hessle 202401-Jan-2431-Dec-2460,265Z2804919Market Weighton 201901-Jan-2431-Dec-2457,231Z2805519Northallerton and Thirsk 201901-Jan-2431-Dec-2427,585Z2806019Pateley Bridge and Ripon 201901-Jan-2431-Dec-2437,827Z2806719Pickering 201901-Jan-2431-Dec-2416,392Z2807119Filey 201901-Jan-2431-Dec-2471,883Z2808024Sutton Ings 202401-Jan-2431-Dec-2471,883	Z2804419	Howden 2019	01-Jan-24	31-Dec-24	16,745
Z2804524Hull Bransholme 202401-Jan-2431-Dec-2466,920Z2804624Hull Central West 202401-Jan-2431-Dec-2426,665Z2804669Hull East 201901-Jan-2431-Dec-2472,551Z2804724Inglemire 202401-Jan-2431-Dec-2417,209Z2804819Malton 201901-Jan-2431-Dec-2438,156Z2804824Kirk Ella & Hessle 202401-Jan-2431-Dec-2460,265Z2804919Market Weighton 201901-Jan-2431-Dec-2457,231Z2805519Northallerton and Thirsk 201901-Jan-2431-Dec-2447,065Z2806019Pateley Bridge and Ripon 201901-Jan-2431-Dec-2437,827Z2806719Pickering 201901-Jan-2431-Dec-2436,922Z2807119Filey 201901-Jan-2431-Dec-2435,524Z2807219Scarborough 201901-Jan-2431-Dec-2471,883Z2808024Sutton Ings 202401-Jan-2431-Dec-2471,878	Z2804519	Hornsea 2019	01-Jan-24	31-Dec-24	20,373
Z2804624Hull Central West 202401-Jan-2431-Dec-2426,665Z2804669Hull East 201901-Jan-2431-Dec-2472,551Z2804724Inglemire 202401-Jan-2431-Dec-2417,209Z2804819Malton 201901-Jan-2431-Dec-2438,156Z2804824Kirk Ella & Hessle 202401-Jan-2431-Dec-2460,265Z2804919Market Weighton 201901-Jan-2431-Dec-2457,231Z2805519Northallerton and Thirsk 201901-Jan-2431-Dec-2447,065Z2806019Pateley Bridge and Ripon 201901-Jan-2431-Dec-2437,827Z2806719Pickering 201901-Jan-2431-Dec-2435,524Z2807119Filey 201901-Jan-2431-Dec-2435,524Z2807219Scarborough 201901-Jan-2431-Dec-2471,883Z2808024Sutton Ings 202401-Jan-2431-Dec-2414,578	Z2804524	Hull Bransholme 2024	01-Jan-24	31-Dec-24	66,920
Z2804669Hull East 201901-Jan-2431-Dec-2472,551Z2804724Inglemire 202401-Jan-2431-Dec-2417,209Z2804819Malton 201901-Jan-2431-Dec-2438,156Z2804824Kirk Ella & Hessle 202401-Jan-2431-Dec-2460,265Z2804919Market Weighton 201901-Jan-2431-Dec-2457,231Z2805519Northallerton and Thirsk 201901-Jan-2431-Dec-2447,065Z2805624North Ferriby and Swanland 202401-Jan-2431-Dec-2427,585Z2806019Pateley Bridge and Ripon 201901-Jan-2431-Dec-2437,827Z2807119Filey 201901-Jan-2431-Dec-2435,524Z2807219Scarborough 201901-Jan-2431-Dec-2471,883Z2808024Sutton Ings 202401-Jan-2431-Dec-2414,578	Z2804624	Hull Central West 2024	01-Jan-24	31-Dec-24	26,665
Z2804724Inglemire 202401-Jan-2431-Dec-2417,209Z2804819Malton 201901-Jan-2431-Dec-2438,156Z2804824Kirk Ella & Hessle 202401-Jan-2431-Dec-2460,265Z2804919Market Weighton 201901-Jan-2431-Dec-2457,231Z2805519Northallerton and Thirsk 201901-Jan-2431-Dec-2447,065Z2805624North Ferriby and Swanland 202401-Jan-2431-Dec-2427,585Z2806019Pateley Bridge and Ripon 201901-Jan-2431-Dec-2437,827Z280719Pickering 201901-Jan-2431-Dec-2435,524Z2807219Scarborough 201901-Jan-2431-Dec-2435,524Z2808024Sutton Ings 202401-Jan-2431-Dec-2414,578	Z2804669	Hull East 2019	01-Jan-24	31-Dec-24	72,551
Z2804819Malton 201901-Jan-2431-Dec-2438,156Z2804824Kirk Ella & Hessle 202401-Jan-2431-Dec-2460,265Z2804919Market Weighton 201901-Jan-2431-Dec-2457,231Z2805519Northallerton and Thirsk 201901-Jan-2431-Dec-2447,065Z2805624North Ferriby and Swanland 202401-Jan-2431-Dec-2427,585Z2806019Pateley Bridge and Ripon 201901-Jan-2431-Dec-2437,827Z2806719Pickering 201901-Jan-2431-Dec-2416,392Z2807119Filey 201901-Jan-2431-Dec-2435,524Z2807219Scarborough 201901-Jan-2431-Dec-2471,883Z2808024Sutton Ings 202401-Jan-2431-Dec-2414,578	Z2804724	Inglemire 2024	01-Jan-24	31-Dec-24	17,209
Z2804824Kirk Ella & Hessle 202401-Jan-2431-Dec-2460,265Z2804919Market Weighton 201901-Jan-2431-Dec-2457,231Z2805519Northallerton and Thirsk 201901-Jan-2431-Dec-2447,065Z2805624North Ferriby and Swanland 202401-Jan-2431-Dec-2427,585Z2806019Pateley Bridge and Ripon 201901-Jan-2431-Dec-2437,827Z2806719Pickering 201901-Jan-2431-Dec-2416,392Z2807119Filey 201901-Jan-2431-Dec-2435,524Z2807219Scarborough 201901-Jan-2431-Dec-2471,883Z2808024Sutton Ings 202401-Jan-2431-Dec-2414,578	Z2804819	Malton 2019	01-Jan-24	31-Dec-24	38,156
Z2804919Market Weighton 201901-Jan-2431-Dec-2457,231Z2805519Northallerton and Thirsk 201901-Jan-2431-Dec-2447,065Z2805624North Ferriby and Swanland 202401-Jan-2431-Dec-2427,585Z2806019Pateley Bridge and Ripon 201901-Jan-2431-Dec-2437,827Z2806719Pickering 201901-Jan-2431-Dec-2416,392Z2807119Filey 201901-Jan-2431-Dec-2435,524Z2807219Scarborough 201901-Jan-2431-Dec-2471,883Z2808024Sutton Ings 202401-Jan-2431-Dec-2414,578	Z2804824	Kirk Ella & Hessle 2024	01-Jan-24	31-Dec-24	60,265
Z2805519Northallerton and Thirsk 201901-Jan-2431-Dec-2447,065Z2805624North Ferriby and Swanland 202401-Jan-2431-Dec-2427,585Z2806019Pateley Bridge and Ripon 201901-Jan-2431-Dec-2437,827Z2806719Pickering 201901-Jan-2431-Dec-2416,392Z2807119Filey 201901-Jan-2431-Dec-2435,524Z2807219Scarborough 201901-Jan-2431-Dec-2471,883Z2808024Sutton Ings 202401-Jan-2431-Dec-2414,578	Z2804919	Market Weighton 2019	01-Jan-24	31-Dec-24	57,231
Z2805624North Ferriby and Swanland 202401-Jan-2431-Dec-2427,585Z2806019Pateley Bridge and Ripon 201901-Jan-2431-Dec-2437,827Z2806719Pickering 201901-Jan-2431-Dec-2416,392Z2807119Filey 201901-Jan-2431-Dec-2435,524Z2807219Scarborough 201901-Jan-2431-Dec-2471,883Z2808024Sutton Ings 202401-Jan-2431-Dec-2414,578	Z2805519	Northallerton and Thirsk 2019	01-Jan-24	31-Dec-24	47,065
Z2806019Pateley Bridge and Ripon 201901-Jan-2431-Dec-2437,827Z2806719Pickering 201901-Jan-2431-Dec-2416,392Z2807119Filey 201901-Jan-2431-Dec-2435,524Z2807219Scarborough 201901-Jan-2431-Dec-2471,883Z2808024Sutton Ings 202401-Jan-2431-Dec-2414,578	Z2805624	North Ferriby and Swanland 2024	01-Jan-24	31-Dec-24	27,585
Z2806719Pickering 201901-Jan-2431-Dec-2416,392Z2807119Filey 201901-Jan-2431-Dec-2435,524Z2807219Scarborough 201901-Jan-2431-Dec-2471,883Z2808024Sutton Ings 202401-Jan-2431-Dec-2414,578	Z2806019	Pateley Bridge and Ripon 2019	01-Jan-24	31-Dec-24	37.827
Z2807119Filey 201901-Jan-2431-Dec-2435,524Z2807219Scarborough 201901-Jan-2431-Dec-2471,883Z2808024Sutton Ings 202401-Jan-2431-Dec-2414.578	Z2806719	Pickering 2019	01-Jan-24	31-Dec-24	16,392
Z2807219Scarborough 201901-Jan-2431-Dec-2471,883Z2808024Sutton Ings 202401-Jan-2431-Dec-2414.578	Z2807119	Filey 2019	01-Jan-24	31-Dec-24	35,524
Z2808024 Sutton Ings 2024 01-Jan-24 31-Dec-24 14.578	Z2807219	Scarborough 2019	01-Jan-24	31-Dec-24	71,883
	Z2808024	Sutton Ings 2024	01-Jan-24	31-Dec-24	14,578

Details of water treatment works and associated supply system					
Z2809024	Wymersley 2024	01-Jan-24	31-Dec-24	30,082	
Z3800124	Aughton and Woodhouse 2024	01-Jan-24	31-Dec-24	58,141	
Z3800219	Barnsley - Langsett 2019	01-Jan-24	31-Dec-24	54,785	
Z3800319	Barnsley - Pennine 2019	01-Jan-24	31-Dec-24	63,551	
Z3800519	Barnsley Grid - Woolley 2019	01-Jan-24	31-Dec-24	24,338	
Z3800524	Neepsend 2024	01-Jan-24	31-Dec-24	27,202	
Z3801319	Rawmarsh and Wickerslev 2019	01-Jan-24	31-Dec-24	77.784	
Z3801324	Doncaster 2024	01-Jan-24	31-Dec-24	49,536	
Z3801419	Doncaster - Wadworth 2019	01-Jan-24	31-Dec-24	63,932	
Z3801519	Doncaster - Armthorpe 2019	01-Jan-24	31-Dec-24	67.144	
Z3801719	Ewden 2019	01-Jan-24	31-Dec-24	20.053	
Z3801724	Fricklev 2024	01-Jan-24	31-Dec-24	43,793	
Z3801824	Fulwood 2024	01-Jan-24	31-Dec-24	41.964	
Z3801919	Carcroft 2019	01-Jan-24	31-Dec-24	71.630	
Z3801924	Green Hill and Oaks Tower 2024	01-Jan-24	31-Dec-24	52,966	
Z3802024	Grenoside and Oughtibridge 2024	01-Jan-24	31-Dec-24	54,806	
Z3802124	Hemsworth 2024	01-Jan-24	31-Dec-24	22,730	
73802224	Sharrow 2024	01-Jan-24	31-Dec-24	36 247	
Z3804219	Kimberworth 2019	01-Jan-24	31-Dec-24	39.017	
Z3804224	Kiveton 2024	01-Jan-24	31-Dec-24	37,768	
73804524	l oxlev 2024	01-Jan-24	31-Dec-24	30 412	
Z3804624	Manor and East Bank 2024	01-Jan-24	31-Dec-24	54.682	
Z3804724	Monk Bretton 2024	01-Jan-24	31-Dec-24	44.062	
73804824	Sheffield City and Hillsborough 2024	01-Jan-24	31-Dec-24	41 893	
73805519	Moonshine 2019	01-Jan-24	31-Dec-24	25,080	
73805624	Ringinglow 2024	01-Jan-24	31-Dec-24	47 152	
Z3805724	Rossington and Haxey 2024	01-Jan-24	31-Dec-24	33,430	
Z3807519	Rotherham and Tinsley 2019	01-Jan-24	31-Dec-24	63,288	
Z3807624	Shafton / Cudworth 2024	01-Jan-24	31-Dec-24	18.341	
Z3807819	Thorne and Hatfield 2019	01-Jan-24	31-Dec-24	56.507	
Z3808003	Wath 2004	01-Jan-24	31-Dec-24	63.212	
Z3808124	Wincobank 2024	01-Jan-24	31-Dec-24	39,199	
Z3808224	Wombwell 2024	01-Jan-24	31-Dec-24	52.340	
Z4800124	Baildon and Bingley 2024	01-Jan-24	31-Dec-24	54.622	
Z4800224	Batley 2024	01-Jan-24	31-Dec-24	53,026	
Z4800324	Birkenshaw 2024	01-Jan-24	31-Dec-24	39.715	
Z4800619	Bradford City North 2019	01-Jan-24	31-Dec-24	58,276	
Z4800719	Bradford City South 2019	01-Jan-24	31-Dec-24	53,253	
Z4800724	Brighouse/Elland 2024	01-Jan-24	31-Dec-24	32,878	
Z4800824	Buttershaw/Queensbury 2024	01-Jan-24	31-Dec-24	47.111	
Z4800924	Cleckheaton 2024	01-Jan-24	31-Dec-24	20,570	
Z4801424	Colne Valley 2024	01-Jan-24	31-Dec-24	46,734	
Z4801917	Dewsbury 2017	01-Jan-24	31-Dec-24	61,816	
Z4801924	Fixby 2024	01-Jan-24	31-Dec-24	32,993	
Z4802024	Gledhill 2024	01-Jan-24	31-Dec-24	40,418	
Z4802103	Graincliffe 2004	01-Jan-24	31-Dec-24	68,778	
Z4802124	Halifax 2024	01-Jan-24	31-Dec-24	50,011	
Z4802224	Harden/Heaton 2024	01-Jan-24	31-Dec-24	72,542	
Z4802324	Hebden Bridge 2024	01-Jan-24	31-Dec-24	29,891	
Z4802424	Hipperholme 2024	01-Jan-24	31-Dec-24	10,281	
Z4802919	Holmfirth and Emley 2019	01-Jan-24	31-Dec-24	51,900	
Z4803019	Holme Valley 2019	01-Jan-24	31-Dec-24	36,559	

Details of water treatment works and associated supply system

Z4803024	Horton 2024	01-Jan-24	31-Dec-24	20,180
Z4803119	Huddersfield 2019	01-Jan-24	31-Dec-24	73,092
Z4803124	Idle 2024	01-Jan-24	31-Dec-24	44,671
Z4803224	Keighley 2024	01-Jan-24	31-Dec-24	38,792
Z4803324	Keighley West & Aire Valley 2024	01-Jan-24	31-Dec-24	27,282
Z4803424	Low Moor Wyke 2024	01-Jan-24	31-Dec-24	27,549
Z4803524	Oxenhope-Denholme 2024	01-Jan-24	31-Dec-24	42,813
Z4803624	Pudsey 2024	01-Jan-24	31-Dec-24	43,932
Z4803724	Ripponden 2024	01-Jan-24	31-Dec-24	19,800
Z4803824	Roils Head East 2024	01-Jan-24	31-Dec-24	39,696
Z4803924	Roils Head West 2024	01-Jan-24	31-Dec-24	23,494
Z4805015	Skipton/Craven 2015	01-Jan-24	31-Dec-24	69,104
Z4805024	Worth Valley 2024	01-Jan-24	31-Dec-24	9,593
Z4805124	Yeadon 2024	01-Jan-24	31-Dec-24	34,655
Z9802024	York East 2024	01-Jan-24	31-Dec-24	52,152
Z9804024	York North 2024	01-Jan-24	31-Dec-24	52,751
Z9806024	York South 2024	01-Jan-24	31-Dec-24	46,530
Z9807024	York West 2024	01-Jan-24	31-Dec-24	61,469

Section 3

Hazard identification and Risk Characterisation									
1	Provide de hazard. F	Provide details of the methodology used to identify the hazard. For example:							
	• Hi	Historical data,							
				• Ev	vents/ ir uations	ncident s,	s including nea	ar miss	
				• O	perator	knowle	edge,		
				• M	odelling	g and v	alidation of mo	odelling	
				• Si	te visits	s/ techr	nical audits		
The hazard programme collected in Table 3.1 .	d has been ident e, supported by f n this period, whi 1 PFAS Analytic	ified thro urther a ch equa al samp	ough c d-hoc tes to ples	atchment investigation.	estigatio In exce determi	on and ess of nations	the routine mo 1,800 samples s of PFAS com	onitoring have been pounds.	
Year	Count of Sa	mples	Cour	nt of dets anal	ysed				
2022	567			24160					
2023	859			40410					
2024 to en	d 433			20558	20558				
of May				20000					
Until the er	nd of May 2024 t	here ha	ve bee	en 232 detect	ions in ⁻	Tier 2 (or Tier 3. The c	verwhelming	
majority of	exceedances ha	ave beer	i in re	lation to Eccu	p ⊨n-ro	oute Ste	orage Reservo	ir (ESR) and the	
Detections	of PEHvS at He	ater Trea		reported to t	/V). Do Inen	ectorat	e in Event 202	3/0/57	
Table 3.1.2	2 Number of Tie	r2 and	Tier 3		letectio	ons		.57 5457.	
	Eccup ESR and Surrrounding area	Headingle	у wтw	Baitings Reservoir Raw and Fixby WTW inlet	Ardsley R Raw Kirkhamg	Reservoir and gate Inlet	Springhead BH Supplying Keldgate WTW inlet	Green Withens subcatchment samples supplying Albert WTW Inlet	
PFBA_P	12							iniet	
PFBS_P	7								
PFHpA_P	12								
	9								
PFHxS P	7	84							
PFOA_P	16			16	22	2	4	2	
PFOS_P	10								
PFPA	11								
Fixby WTV	PFPes_P 7 Fixby WTW and Kirkhamgate WTW have some common elements of raw water supply.								
2 Summary of historical data on the values and concentrations of the organism, substance(s) or parameter(s) associated with the hazard in the raw water source and the water entering supply from the relevant treatment works from compliance, investigative, or operational sampling									
Headingley water treatment works is supplied by Eccup ESR. Data has shown PFHxS, but no other PFAS, has entered Tier 2 in water supplied to customers.									



Kirkhamgate WTW

PFOA found to be at Tier 2 level in raw water supply from Ardsley raw water reservoir. Mixing of treated water on site with separate 'Yorkshire Grid' supply prior to distribution to customer. No evidence of Tier 2 in supply to customers



Figure 3.2.4 PFOA Detections at Keldgate WTW

Albert WTW

PFOA found in sub-catchment samples taken as investigation of wider issues at Fixby / Kirkhamgate found to be at Tier 2 level. Upstream asset from Albert WTW found to be sustainably at Tier 1 level. No evidence of Tier 2 in supply to customers.



Figure 3.2.5 PFOA Detections at Albert WTW

Wider Regional Assessment

Of the remaining water treatment works, no sites have recorded Tier 3 level detections in any sample.

Three water treatment works have recorded a single Tier 2 level detection in some element of supplying raw water. All previous, reactive, and subsequent detections have been at Tier 1 or LOQ. Two years of data is available for each of these sites.

Table 3.2.1 WTW with Single Raw water detection at Tier 2 level.

SiteName	Determinations at LOQ	Determinations at Tier 1 Level	Determinations at Tier 2	1st Sample	Latest Sample
Acomb No:2 WTW	1240	130	1	27/04/2022	24/06/2024
Huby WTW	1045	104	1	06/05/2022	06/06/2024
Loftsome Bridge WTW	1516	187	1	06/05/2022	06/06/2024

27 water treatment works sites have at least one Tier 1 level detection greater than the limit of quantification and have two years of monitoring data. Once a basic mitigation plan is recorded these sites would meet criteria for exclusion from the proposed PFAS undertaking.

Table 3.2.2 Tier 1 WTW with over 2 years of monitoring data.

Hazard Identification and Risk Characterisation							
SiteName	Determinations	Determinations	Determinations	1st Sample	Latest Sample		
	at LOQ	at Tier 1 Level	at Tier 2	•	•		
Austerfield WTW	1737	27	0	03/02/2022	12/06/2024		
Blackmoorfoot WTW	373	37	0	26/04/2022	21/06/2024		
Catterick No.3 WTW	1189	38	0	10/05/2022	07/06/2024		
Chellow Heights WTW	2354	117	0	27/04/2022	17/06/2024		
Cowick No:2 WTW Outlet	1016	1	0	03/05/2022	08/05/2024		
Eccup WTW	2356	214	0	10/05/2022	13/06/2024		
Elvington WTW CT Outlet	1747	57	0	27/04/2022	23/05/2024		
Embsay WTW	466	14	0	28/01/2022	19/06/2024		
Etton Wold WTW	237	4	0	02/02/2022	18/06/2024		
Ewden WTW	387	15	0	06/05/2022	17/06/2024		
Graincliffe No.2 WTW	1936	71	0	03/05/2022	14/06/2024		
Great Heck No:2 WTW	666	51	0	03/05/2022	07/05/2024		
HAISTHORPE NO.2 WTW OUTLET	1733	11	0	28/04/2022	04/06/2024		
Harlow Hill WTW	395	10	0	16/05/2022	21/06/2024		
Highfield Lane WTW	2068	12	0	03/02/2022	12/06/2024		
Hutton Cranswick WTW	1628	6	0	29/01/2022	05/06/2024		
Ingbirchworth No.2 WTW	2225	126	0	18/05/2022	18/06/2024		
Irton WTW	1114	17	0	12/05/2022	12/06/2024		
Langsett No.2 WTW	1240	130	0	05/05/2022	18/06/2024		
Longwood No.2 WTW	446	28	0	28/01/2022	20/06/2024		
Malton Norton WTW	377	4	0	28/01/2022	14/06/2024		
Mill Lane No.2 WTW	1933	244	0	03/05/2022	12/06/2024		
Nutwell WTW	8138	329	0	02/02/2022	18/06/2024		
Oldfield WTW	430	24	0	29/01/2022	21/06/2024		
Sladen Valley No.2 WTW	1090	44	0	29/01/2022	12/06/2024		
Thornton Steward WTW	1735	39	0	05/05/2022	06/06/2024		
Tophill Low No.2 WTW	1133	17	0	01/02/2022	20/06/2024		

Hazard identification	n and Risk	Characterisation
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12 water treatment works sites have at least one Tier 1 level detection greater than the limit of quantification but have not yet achieved two years of monitoring data. In many cases the absence of the two-year monitoring criteria is due to phasing. Partially, this is an impact that as these sites are considered lower risk there is less frequent monitoring.

SiteNamo	Determinations	Determinations	Determinations	1 et Complo	Latort Sample	
Sitemaine	at LOQ	at Tier 1 Level	at Tier 2	ist sample	catest sample	
Ainderby WTW	1155	8	0	03/05/2022	29/04/2024	
Aysgarth WTW	447	4	0	05/05/2022	23/04/2024	
Cayton Carr Lane WTW	571	3	0	28/01/2022	05/12/2023	
Dalton WTW	470	1	0	24/06/2022	19/04/2024	
East Ness WTW	2064	12	0	24/05/2022	20/05/2024	
High Shaw WTW	396	4	0	27/04/2022	24/04/2024	
Holmbridge WTW	366	17	0	24/05/2022	09/05/2024	
Keld Head WTW	912	10	0	11/05/2022	07/05/2024	
Loxley WTW	424	21	0	10/05/2022	01/04/2024	
Richmond WTW	261	3	0	10/05/2022	15/02/2024	
Rivelin No.2 WTW	907	33	0	07/06/2022	03/04/2024	
Ruswarp WTW	1303	12	0	25/05/2022	21/05/2024	

Table 3.2.3 Tier 1 WTW with less than 2 years of monitoring data.

No sites have recorded limit of quantification only samples.

3	Details of any existing contraventions of regulatory requirements and whether they are likely to recur (at WTW, SR and/or at consumers taps)

There is no regulatory standard in place for PFAS.

However, DWI information letter 2022 / 03 provides guidance on risk levels, including a tier system. Tier 3 is defined any detection > 0.100 ug/l and is considered unwholesome.

There have been no detections, or risk of detection, in Tier 3 in supply to customers in Yorkshire.

An Event (2023 / 9457) was notified following Tier 3 level of detections in local stream samples close to Eccup ESR – which itself supplies Headingley WTW. However, there was no true risk of Tier 3 PFAS entering supply to customers, which was demonstrated in the investigation.

4	If evidence of likely to contravene any regulatory
	requirement, details of when this is likely to occur (at
	WTW, SR and/or at consumers taps) including trend
	analysis & prediction modelling

Although the issues discussed at Eccup ESR / Headingley WTW did not represent a true risk of exceedance of Tier 3 levels in supply to customers, it did provide an example of the unexpected nature of the risk due to the current lack of data. The Leeds Low Level Supply System which includes Headingley WTW had been sustainably in Tier 1, before the unexpected detections in Tier 2 in 2023. It is possible similar challenges could occur in other systems in future. The purpose of this initiative is to provide improved knowledge and understanding of the risk for customers in Yorkshire.

5	Details of any other data relevant to the hazard identified

No applicable.

The purpose of the initiative is to develop the data and other information sources in order to quantify the risk to customers.

6	If appropriate, summary of data/ information on
	consumer complaints

Not applicable.

7				Details of any events that have occurred in the
				catchment, at the treatment works and in supply that
				are associated with hazard identified

The initiative is regional rather than catchment specific. Increasingly investigation is finding that there is a risk from a wider variety of current and historic practices.

A key element of the output with be a greater degree of information from stakeholders in catchments so that the true risk to consumers can be quantified.

8	Details of any existing control measure(s) that might
0	
	Influence the values and concentrations of the
	organism, substance(s) or parameter(s) associated
	with the hazard in the catchment, in treatment and in
	supply
Yorkshire Water has been undertaking catc	hment risk assessment for many years, and many of the
routine activities are in place to ensure wate	er subsequently for use in supply to customers is not
contaminated beyond the ability for treatme	ent. The historic selection of raw water sources has
reduced potential for contamination.	

Yorkshire Water's water supply systems are flexible. Many sites, include all of the sites identified as potential risk at this stage, have either raw water or treated water blending options. Unfortunately, as the quantity of data grows, the ability of removal in existing 'standard' treatment process appears limited. Increasingly, the data suggests that where there is a PFAS challenge then dedicated PFAS removal treatment will be required.

9 Details of monitoring of the existing control measure(s) (including validation monitoring)

Catchment activity is monitored by regular catchment investigations, and supported by a sampling programme which confirms the quality of raw water supplying the treatment works. A variable risk based monitoring and escalation protocol has been developed as part Yorkshire Water's PFAS Strategy as shown by the two extracts below :

Table 3.9.1 Reproduction of Raw Water sampling Plan from PFAS Strategy

Table I Basal Raw Water Monitoring Programme

	Current Sampling Strategy	Long-term Sampling Strategy
High risk Raw water Sources	Monthly	Monthly
Medium risk raw water sources	Monthly	Quarterly
Low Risk raw water sources	Quarterly	Quarterly

Table 3.9.2 Reproduction of Treated Water sampling Plan from PFAS Strategy

Table 2 Treated Water Monitoring Approach				
	Sampling Schedule			
WTW Outlet - source with 0 x Tier 2 detection	Catchment risk dependent			
WTW Outlet – source with 1 x Tier 2 detection	Quarterly (for 12 months)			
WTW Outlet – Source with >1 x Tier2 detection	Monthly (for 12 months)			
WTW Outlet - Source with Tier 3 detection	Monthly			

For clarity, the sampling frequencies are for review in 2024, and ad-hoc or reactive sampling surveys are taken in addition to scheduled analysis.

Samples collected in both raw and treated water operational sampling programmes are flagged with warning limits where these exceed expected values.

Hazard Identification and Risk Character	risation					
Pages < D File < → Export < Le Share 10 Chat in Teams Q Get insights 10 Subscribe to report Q Su	iet alert ···· · · · · · · · · · · · · · · · ·					
7Day Treated Warnings All Raw Water Warnings from 2012 Multip	e Component name Collected from Month Year ele sele Multiple selections All All Multiple					
ALL Raw Warnings						
All Treated Warnings No. Warnings per Month Collected from	O O = Gographical Spread of Raw Water Warnings KIRKHAMGATE R Component name OFPA P OFFIA.P OFFIA.P					
10	Bickpool Preston Bradford @Leeds Hull wet					
5	Blackburn Huddersfield • Internet Bolton					
	uu Liverpool Manchester uu Puterpool					
0 January February March April May	June Chester Sheffield North Main					
Month Collected from Component name Result Value Units Sampled date	Component Name					
KIRKHAMAGATE RAW PFOA_P 0.0.11 ug/l 08/01/2024 75:0 ARTHINGTON RIVER WHARFE PFBA_P 0.0.18 ug/l 23/01/2024 8:10 ARTHINGTON RIVER WHARFE PFDA_P 0.017 un/l 23/01/2024 8:10	4 PHIS,P POCP					
FIXBY (NEW) RAW PF0A, P 0.012 ug/l 23/01/2024 8:30 HEADINGLEY 2 WORKS INLET PFHx5_P 0.015 ug/l 25/01/2024 150 URADINGLEY 3 WORKS INLET PFHx5_P 0.015 ug/l 25/01/2024 150						
HEADINGERY 2006 NEET F1162 0001 0001 0001 000202021 100 HEADINGERY 2006 NIET F1165 P 0.014 ug/ 05/02/02021 110 KIRKHAMGATE RAW PF0A,P 0.011 ug/ 12/02/2024 835	5 5					
HEADINGLEY 2 WORKS INLET PH-HS_P 0.013 ug/1 13/02/2024 90: HEADINGLEY 2 WORKS INLET PH-HS_P 0.013 ug/1 21/02/2024 10:3 HEADINGLEY 2 WORKS INLET PH-HS_P 0.013 ug/1 29/02/2024 9:10						
HEADINGLEY 2 WORKS INLET PFH/5_P 0.013 ug/1 08/03/2024 9:55 HEADINGLEY 2 WORKS INLET PFH/5 P 0.012 un/1 11/03/2024 12:1						
Figure 3.9.1 Example of Raw Water Warr	nings Dashboard					
10	Details of any changes in practices or policy which					
	might have influenced the values and concentrations of					
	the organism, substance(s) or parameter(s) associated					
	with the hazard in water supplied to consumers, i.e., in					
	treatment or supply arrangements and the dates of					
	those changes					
Not applicable						
11	Details of any licensed abstraction issues which might					
	Influence the values and concentrations of the					
	with the hazard in raw water					
Not applicable						
12	Reasons for the presence of the hazard, if known,					
	otherwise details of what is being done to identify the					
Current understanding dass not identify sig	source of the hazard					
Yorkshire.	nincant risk in the majority of supply systems in					
The exact single point source of contamina	tion close to Eccup ESR has not been determined.					
Indeed, PFAS was shown to be entering a	bypass conduit at more than one location. Site surveys					
were carried out, with associated sampling. Yorkshire Water identified potential sources of						
Site surveys have also been carried out in a	association with detections of PEOA at Fixby WTW and					
Kirkhamgate WTW. In certain modes of ope	eration both sites can have common upstream reservoir					
sources. PFOA at equivalent Tier 2 levels h	nave been found in two separate reservoirs sources					
(Arsdley ESR and Baitings ESR). The catcl	hment from these areas can be influenced by agricultural					
and there may be historic land fill. However	r, Yorkshire water is also currently following up potential					
The detections at Keldgate are more recent	t and are currently subject to investigation					
13	Outline Rick characterisation. For example, details and					
	score arising from consequence v. likelihood matrix					
	where score sits in the risk profile for the supply					
	system.					

Yorkshire Water's DWSP Risk matrix incorporates a 5 x 5 scale severity and probability matrix. Our system adopts the DWI severity scores and combines this with an estimate probability (in bands of 20%) of failure within the next 12 months.

Table 3.13.1 DWSP Risk Matrix

		Severity				
		1 - VL	2 - L	3- M	4 – H	5 – VH
ty	5 – VH	9	14	18	22	25
bili	4 – H	7	12	17	21	24
opa	3 – M	5	10	15	19	23
1 Å	2 – L	3	6	11	16	20
	1 - VL	1	2	4	8	13

Full details of risk assessments are shown in the relevant Reg28 Reports, but in summary only supply from Headingley WTW has been found to contain PFAS at above Tier 1. All other sites are either low risk or have inherent mixing which provides protection for customers.

Table 3.13.2 DWSP Production PFAS risk lines

Haza	rd identification and Risk	Characi	terisat	lion								
AssetR	AssetName	✓ Stage ,T	Hazard 🗐 I	PreLike 💌 P	reCon 🔻	Risk	▼ Po	ostLik 👻	PostCo 👻	Residu - DWICa -	AdditionalC -	Hazard
T4690220	Albert WTW	Treatmen	H067	5	4		22	1	4	8 A		50239
T3692910	Ingbirchworth No.2 WTW	Treatmen	H067	1	4		8	1	4	8 A		52132
T4690650	Blackmoorfoot WTW	Treatmen	H067	1	4		8	1	4	8 A		52853
T2694270	Haisthorpe No.2 WTW Outlet	Treatmen	H067	1	4		8	1	4	8 A		54026
T2694650	Hutton Cranswick WTW	Treatmen	H067	1	4		8	1	4	8 A		54088
T1692030	Kirkhamgate WTW	Treatmen	H067	5	4		22	2	4	16 A		55475
T2691630	Catterick No.3 WTW	Treatmen	H067	2	4		16	2	4	16 A		56285
T2692150	Dalton WTW	Treatmen	H067	1	4		8	1	4	8 A		56349
T2697440	Richmond WTW	Treatmen	H067	1	4		8	1	4	8 A		56412
T4691410	Chellow Heights WTW Cwt 1 North	Treatmen	H067	1	4		8	1	4	8 A		57527
T3690600	Austerfield WTW	Treatmen	H067	1	4		8	1	4	8 A		58718
T3692700	Highfield Lane WTW	Treatmen	H067	1	4		8	1	4	8 A		58781
T2692750	East Ness WTW	Treatmen	H067	1	4		8	1	4	8 A		59974
T2697100	Malton Norton WTW	Treatmen	H067	1	4		8	1	4	8 A		60037
T2693150	Etton Wold WTW	Treatmen	H067	1	4		8	1	4	8 A		63722
T3691450	Ewden WTW	Treatmen	H067	1	4		8	1	4	8 A		64658
T4692305	Fixby No.2 WTW Cwt 1	Treatmen	H067	5	4		22	1	4	8 A		64904
T4692722	Graincliffe No.2 WTW Out 2	Treatmen	H067	1	4		8	1	4	8 A		65745
T2690800	Loftsome Bridge WTW	Treatmen	H067	2	4		16	1	4	8 A		67186
T2692940	Elvington WTW Ct Outlet	Treatmen	H067	1	4		8	1	4	8 A		67231
T2694400	Harlow Hill WTW	Treatmen	H067	1	4		8	1	4	8 A		67682
T4693660	Holmbridge WTW	Treatmen	H067	1	4		8	1	4	8 A		69603
T2695260	Keldgate No.3 WTW	Treatmen	H067	1	4		8	1	4	8 A		70724
T4695450	Oldfield WTW	Treatmen	H067	1	4		8	1	4	8 A		71257
T4696770	Sladen Valley No.2 WTW	Treatmen	H067	1	4		8	1	4	8 A		71319
T2695050	Keld Head WTW	Treatmen	H067	1	4		8	1	4	8 A		72329
T2692680	Huby WTW	Treatmen	H067	1	4		8	1	4	8 A		72977
T3693040	Langsett No.2 WTW	Treatmen	H067	2	4		16	1	4	8 A		73606
T1691050	Eccup WTW	Treatmen	H067	1	4		8	1	4	8 A		74603
T1691050	Eccup WTW	Treatmen	H067	1	4		8	1	4	8 A		74665
T1691802	Headingley No.2 WTW Outlet 2	Treatmen	H067	5	4		22	5	4	22 B	Repairs are du	75631
T2698270	Tophill Low No.2 WTW	Treatmen	H067	1	4		8	1	4	8 A		76664
T4694455	Longwood No.2 WTW	Treatmen	H067	1	4		8	1	4	8 A		76858
T3693540	Loxley WTW	Treatmen	H067	1	4		8	1	4	8 A		77133
T2690260	Ainderby WTW	Treatmen	H067	1	4		8	1	4	8 A		78138
T3693710	Nutwell WTW	Treatmen	H067	2	4		16	1	4	8 A		79522
T3694100	Rivelin No.2 WTW	Treatmen	H067	1	4		8	1	4	8 A		80599
T2691750	Cavton Carr Lane WTW	Treatmen	H067	1	4		8	1	4	8 A		82164
T2695000	Irton WTW	Treatmen	H067	1	4		8	1	4	8 A		82226
T1690350	Brayton North Treated	Treatmen	H067	1	4		8	1	4	8 A		83540
T1690750	Mill Lane No.2 WTW	Treatmen	H067	1	4		8	1	4	8 A		83602
T1690800	Cowick No:2 WTW Outlet	Treatmen	H067	1	4		8	1	4	8 A		83664
T1691400	Great Heck no:2 WTW	Treatmen	H067	1	4		8	1	4	8 A		83728
T2690051	Avsgarth WTW Outlet A	Treatmen	H067	1	4		8	1	4	8 A		85486
T2693650	High Shaw WTW	Treatmen	H067	1	4		8	1	4	8 A		85549
T2698150	Thornton Steward WTW	Treatmen	H067	1	4		8	1	4	8 A		85610
T2693100	Ruswarp WTW	Treatmen	H067	1	4		8	1	4	8 A		88237
T9692000	Acomb No:2 WTW	Treatmen	H067	2	4		16	1	4	8 A		89085
T4692156	Embsay WTW Outlet No:3	Treatmen	H067	1	4		8	1	4	8 A		107623
				-	-		-	-	-			207020

Section 4

Control Measures Required control measures	– Detai	ils of short, medium and long term	
1 Details of short-term actions currently in place to mitigate against risk & their effect			
Inherent systems of raw or tre impact to customers for most Interventions were made to in Eccup ESR, in order to ensur PFAS compounds was diverte Headingley WTW.	eated wa of the si nplemer e the loo ed down	ater mixing are in place to prevent ites with currently understood risk. It repairs to the bypass conduit at cal area streams contaminated by stream and away from the supply to	
2	Details of mid to long term control measures identified for any residual risk:		
	0	Options the company has considered which should, where appropriate, include catchment management controls, or communications controls in association with other stakeholders	
	0	Timescale for delivery of each option	
	0	Capital costs and net additional operating costs of each option considered	
	0	Summary of costs and benefits of each option	
	0	Reasons for choosing the preferred option	
	0	Specific supporting evidence that the preferred option will address risk of hazard within the required timescale	
Catchment management Catchment management is th	e first lir	ne of defence for controlling water	

Catchment management is the first line of defence for controlling water quality at source. It is not likely we can address the potential risks posed by PFAS on our own.

Engagement with landowners and tenants is a key step in preventing contamination of the environment. This will be delivered by attendance at local agricultural shows and publicising good agricultural practice. We will continue our on-going partnership with Catchment Sensitive Farming to raise awareness to water quality and offer advice to the farming community. However, we will also have to investigate historic environmental contamination. This will require us to also engage with national stakeholders such as Natural England and Catchment Sensitive Farming which identified hazards which were brought to the attention of the Environment Agency to investigate.

Our experience through our catchment approach is that the most effective mechanisms is from direct 'boots on the ground' interactions with stakeholders by trained and competent colleagues.

Raw water source selection

Control Measures Required – Details of short, medium and long term control measures

Current evidence in the sources supplying Fixby WTW, Keldgate WTW, and Kirkhamgate WTW demonstrates that mixing of supplies is an effect tool for achieving Tier 1 level performance for customers. As knowledge of risk increases through the sampling monitoring programme it may be possible to develop further abstraction and mixing strategies, potentially on a seasonal basis, to ensure efficient but safe usage of raw water sources.

Minor catchment intervention solutions

There has been only one example of a supply to customers entering Tier 2, at Headingley WTW supplied from Eccup ESR. Investigation indicated that the cause of the raised levels was due to overtopping of the reservoir bypass conduit. This was addressed by de-sludging and some minor repairs.

It is envisaged that further minor catchment interventions could be delivered regionally on a risk basis.

Treatment solutions

The current evidence does not identify significant urgent need for treatment solutions at this stage. However, it is acknowledged that new information could arise that demonstrates risks, and it is also possible that updated health protection guidance could impact on the urgency of delivery of solutions.

Developing knowledge of risk through surveillance will be supported by investigation and design of treatment solutions to address risks in the future if they occur.

Review of proposed initiative

The proposed initiative activity comprises an additional Sampling Officer to complete collected of routine and investigation samples and a WQ Scientist to interpret and oversee data.

Importantly, it is clear that Yorkshire Water cannot resolve PFAS issues on its own, and so there is also an additional role to expand the engagement with farmers, landowners, local authorities, and other stakeholders. In addition, the proposal includes arrangement to support attendance at agricultural shows and other events.

Initially it was identified that up to 5 full time positions would be required. However, this assessment has been revised based upon the data indicating the vast majority of sites will enter a sustainable Tier 1 level of performance and so will subject to removal from the list of name sites under a proposed undertaking.

Experience in 2024 has demonstrated that some minor interventions in catchments can be very effective in resolving PFAS issues.

A key element of the investigation is provision of evidence of risk through the sampling programme. The programme is current collected

approximately 90 samples per month. In the context of the likely removal of sites from the Annex of a proposed undertaking it is not proposed to further expand the monitoring programme.

Should investigations identify risks to consumers, and minor catchment solutions cannot be enacted, then it will be necessary to confirm the necessary arrangements for treatment interventions which can be implemented in future AMPs.

Table 4.2.1 Solution costing

Activity

Costs in £k

Control Measures Required – Details of short, medium and long term control measures

	Pa	AMP8
3 x FTE for Engagement	£199	£997
Stakeholder Engagement	£26	£131
Minor Catchment Improvements	£21	£105
Routine and Investigational Sample programme	£250	£1,247
Treatment Solution development and Investigations	£84	£420
	Total	£2,900

Please note – costs differ from those submitted as costs inflated to align with CPIH 2022-23 average as in all business plan tables

3	Full details of how Yorkshire Water intends
	to assess and measure the benefits
	delivered (the outcome), including details of
	proposed sampling programme, number of
	samples to be taken over the specified
	period and parameters to be monitored.
The key benefit from the outp	ut of the initiative will be improved
understanding of the risk to co	onsumers.
This will be demonstrated in r	esults of sampling programme, in line with
Yorkshire Water's PFAS strate	egy.
Where supply systems enter	Tiers 2 or 3, interventions in the catchment or
in mixing will demonstrate retu	urn to Tier 1 level performance.
Where supply systems canno	t be immediately returned to Tier 1 level
performance the developmen	t of outline plans to achieve Tier 1
performance in AMP9 will be	a key deliverable.

Annex 2 - DWI Support of PFAS Activity (Decision Letter YKS10)



Drinking Water Inspectorate Ground Floor, SW Seacole Building 2 Marsham Street London SW1P 4DF

Enquiries: 0330 041 6501

E-mail: <u>DWI.Enforcement@defra.gov.uk</u> DWI Website: <u>www.dwi.gov.uk</u>

DWI reference: YKS10

8 July 2024

Mr Director of Water Service Delivery Yorkshire Water Services Ltd Western House Western Way Halifax Road Bradford BD6 2LZ

Dear

Periodic Review 2024: Yorkshire Water Services Ltd

DWI Scheme reference: YKS10 - Company Strategy - PFAS

Final Decision Letter – Support Proposed Scheme

The Inspectorate has completed its detailed assessment of the scheme proposed by Yorkshire Water Services Ltd to deliver the requirements of the existing section 19 undertaking (ref: YKS-2023-00009), including investigations, catchment interventions and planning for future mitigations to mitigate the risk from PFAS, for drinking water quality reasons in all supply systems operated by the company (and associated assets as applicable).

This was a late submission, received by the Inspectorate on 4 July 2024. A summary of the outcome of our assessment of this scheme is attached. A letter of support has already been provided to the company (ref: YKS9, sent on 24 November 2023). This letter replaces the previous one.

The detailed assessment considered the outcome of multiple risk assessment reports, that were submitted to the Inspectorate as required by regulation 28(1) of the Water Supply (Water Quality) Regulations 2016 (as amended) for

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all of the supply systems operated by the company (and associated assets as applicable).

Based on the information submitted by the company, the Inspectorate supports the need for this scheme, for water quality reasons, and the supported scheme shall be included by the company in its AMP8 plans, subject to the caveats listed in the attachment.

Undertaking YKS-2023-00009 has already been accepted by the Inspectorate and therefore a new legal instrument is not required.

I am copying this letter to

- Paul Martin and Simon Harrow, Ofwat;
- Richard Thompson and Anne Dacey, Environment Agency;
- Karen Gibbs, CCWater.

Yours sincerely



Deputy Chief Inspector, on behalf of the Secretary of State for Environment, Food and Rural Affairs

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Periodic Review 2024: Late Submission Scheme

Summary of DWI Assessment – Supported

Water Company Name: Yorkshire Water Services Ltd

DWI Scheme Reference: YKS10

Scheme Name: Company Strategy for PFAS

Proposal:

Deliver the requirements of the existing section 19 undertaking (ref: YKS-2023-00009), including investigations, catchment interventions and planning for future mitigations.

Supporting Evidence:

Risks described in the formal PR24 submission and accompanying regulation 28(1) risk assessments, provided to the Drinking Water Inspectorate.

Conclusion:

The Drinking Water Inspectorate supports the delivery of this scheme in order to secure or maintain drinking water quality.

Caveats: None

Timescale: End of AMP8 (31 March 2030)

Estimated Cost: £2.763m

Legal Instrument Required: Existing section 19 Undertaking (YKS-2023-00009)

Comment:

The Inspectorate has no role in determining proportional allocation of expenditure. Where technical support from the Inspectorate is given, this should not be taken by the company to imply that the scheme will be partially or wholly funded as a Quality item. We note that it is late in the Price Review process, with Ofwat due to publish its draft determinations on 11 July 2024. This letter does not seek to undermine that process, nor should it be used as such. We encourage the company to engage with Ofwat on this matter at the earliest opportunity.

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