

## DRAINAGE AND WASTEWATER MANAGEMENT PLANS (DWMP)



# LEVEL 2 STRATEGIC PLANNING AREA SUMMARY – WEAR

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## OVERVIEW

The Drainage and Wastewater Management Plan (DWMP) covers seven Strategic Planning Areas (SPA). The seven areas align broadly with the river basin catchments within the region and the main urban areas.

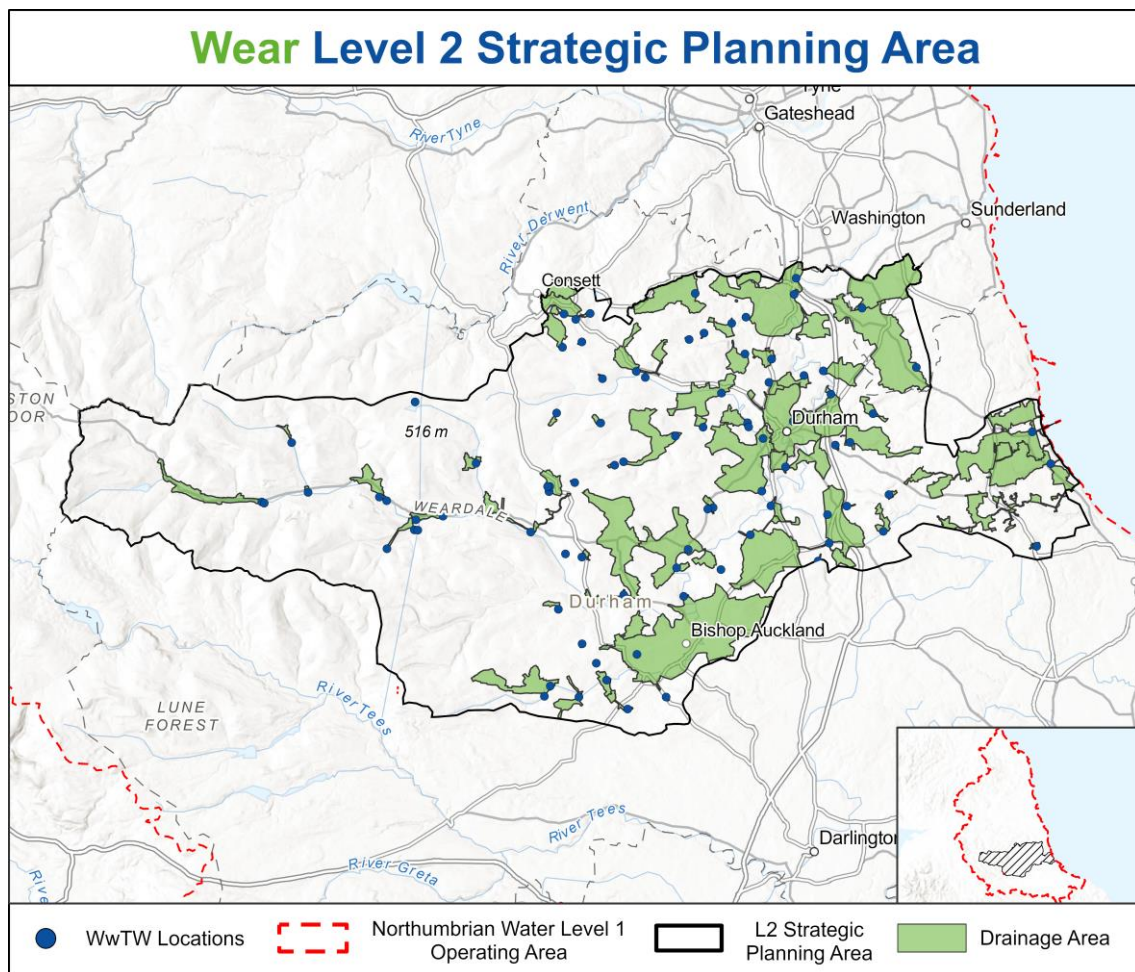
This document provides an overview of the DWMP for the **Wear Level 2 SPA**.

Within the Wear Level 2 SPA, there are:

- 82 Wastewater Treatment Works (WwTW)
- 83 Level 3 Tactical Planning Unit (TPU) areas
- 91 Wastewater Drainage Areas

The total estimated population of the Wear Level 2 SPA is 402,000.

### WEAR LEVEL 2 STRATEGIC PLANNING AREA



## DRAINAGE AREAS WITHIN WEAR L2 SPA

The following table outlines all of the drainage areas within the Wear Level 2 SPA. The table also outlines whether the drainage area triggered during the Risk Based Catchment Screening (RBCS) stage of the DWMP for detailed analysis as part of the Baseline Risk and Vulnerability Assessment (BRAVA) stage.

Drainage Area Reference	Drainage Area Name	WwTW Name	Triggered BRAVA?
06-D01	Hamsterley	Hamsterley WwTW	No
06-D02	Fir Tree	Fir Tree WwTW	No
06-D04	Low Etherley	Low Wadsworth WwTW	Yes
06-D05	Crook	Low Wadsworth WwTW	Yes
06-D06	St Johns Chapel & Westgate	Western Area WwTW	Yes
06-D07	Rookhope	Rookhope WwTW	No
06-D08	Eastgate	Eastgate WwTW	No
06-D09	Stanhope & Crawleyside	Stanhope WwTW	Yes
06-D10	Frosterley	Frosterley WwTW	No
06-D11	Hill End & Bridge End	Bridge End WwTW	No
06-D12	White Kirkley	White Kirkley WwTW	No
06-D13	Wolsingham	Wolsingham WwTW	Yes
06-D14	Thornley	Wolsingham WwTW	Yes
06-D15	Tow Law	Tow Law WwTW	Yes
06-D16	Brotherlee	Brotherlee WwTW	No
06-D17	Railway Terrace	Railway Terrace WwTW	No
06-D18	Low Bishopley	Low Bishopley WwTW	No
06-D19	Wear Valley Junction	Wear Valley Junction WwTW	No
06-D20	Tunstall	Tunstall WwTW	No
07-D01	Sacriston	Sacriston WwTW	Yes
07-D02	Nettlesworth	Plawsworth WwTW	Yes
07-D03	Edmondsley	Edmondsley WwTW	No
07-D04	Chester le Street	Chester Le Street WwTW	Yes
07-D05	The Moorings	The Moorings WwTW	No
07-D06	Waldrige Drift	Waldrige Drift WwTW	No
07-D07	Great Lumley	Chester Le Street WwTW	Yes
07-D08	Leadgate North	Consett WwTW	Yes
07-D09	Leadgate South	Crookhall WwTW	Yes
07-D10	Delves	Knitsley WwTW	Yes
07-D11	Iveston West	Iveston West WwTW	No
07-D12	Iveston East	Iveston East WwTW	No
07-D13	Crookhall	Crookhall WwTW	Yes
07-D14	South Stanley & Craghead	Hustledown WwTW	Yes

Drainage Area Reference	Drainage Area Name	WwTW Name	Triggered BRAVA?
07-D15	Lanchester & Burnhope	Lanchester WwTW	Yes
07-D16	Langley Park & Witton Gilbert	Witton Gilbert WwTW	Yes
07-D17	Satley	Satley WwTW	No
07-D18	Holmside	Holmside WwTW	No
07-D19	Peartree Cottages	Pear Tree WwTW	No
07-D20	East Hedleyhope	East Hedleyhope WwTW	No
07-D21	Hedleyhope Colliery	Hedleyhope Colliery WwTW	No
07-D22	Hollinside Hall	Hollinside WwTW	No
07-D23	Hurbuck Cottages	Hurbuck Cottages WwTW	No
07-D24	Cornsay	Cornsay WwTW	No
07-D25	Esh Winning	Esh Winning WwTW	Yes
07-D26	Bearpark	Aldin Grange North WwTW	Yes
07-D27	Ushaw Moor & Brandon	Brownney WwTW	Yes
07-D28	Lower Brancepeth	Stockley Grove WwTW	No
07-D29	Brancepeth	Brancepeth WwTW	No
07-D30	Sunderland Bridge	Sunderland Bridge WwTW	Yes
07-D31	Bowburn	Bowburn WwTW	Yes
07-D32	Cassop	Cassop WwTW	No
07-D33	Kelloe	Kelloe WwTW	Yes
07-D34	West Rainton	Leamside WwTW	Yes
07-D35	Carrville & Belmont & Shincliffe	Belmont WwTW	Yes
07-D36	Pittington	Pittington WwTW	No
07-D37	Sherburn	Sherburn WwTW	Yes
07-D38	Sherburn Hospital	Sherburn House WwTW	No
07-D39	Pity Me	Pity Me WwTW	No
07-D40	Newton Grange	Brasside WwTW	No
07-D41	Durham City & Newton Hall	Barkers Haugh WwTW	Yes
07-D42	Elvet Hill	University WwTW	Yes
07-D43	Tursdale Aged Miners Homes	Tursdale WwTW	No
07-D44	Spennymoor	Tudhoe Mill WwTW	Yes
07-D45	Cornforth	Tudhoe Mill WwTW	Yes
07-D46	East Howle	East Howle WwTW	No
07-D47	Byers Green	Willington WwTW	Yes
07-D48	Old Park Terrace	Old Park Terrace WwTW	No
07-D49	Metal Bridge	Metal Bridge WwTW	No
07-D51	Cockfield & Esperley	Cockfield WwTW	No
07-D52	Butterknowle	Butterknowle WwTW	Yes
07-D53	High Lands	Cockfield WwTW	No
07-D54	North Evenwood & Ramshaw	Ramshaw WwTW	Yes
07-D55	South Evenwood	New Moors WwTW	No

Drainage Area Reference	Drainage Area Name	WwTW Name	Triggered BRAVA?
07-D56	Bildershaw	Bildershaw WwTW	No
07-D57	Bishop Auckland	Bishop Auckland WwTW	Yes
07-D58	Newfield	Newfield WwTW	No
07-D59	Willington & Hunwick	Willington WwTW	Yes
07-D60	Herrington	Sedgelecth WwTW	Yes
07-D61	Houghton/Hetton	Sedgelecth WwTW	Yes
07-D62	Cockfield Station	Station House Cockfield WwTW	No
07-D63	Deerness View	Ushaw Moor WwTW	No
07-D64	Bearpark Hall	Aldin Grange South WwTW	No
07-D65	Heugh Hall	Heugh Hall WwTW	No
07-D66	Malton	Malton WwTW	No
07-D67	Hedley Hill Colliery	Hedley Hill WwTW	No
07-D68	Greenfields	Greenfields WwTW	No
07-D69	Windmill	Windmill WwTW	No
07-D70	Bowes Hill	Bowes Hill WwTW	No
08-D01	Seaham	Seaham WwTW	Yes
08-D02	Murton	Seaham WwTW	Yes
08-D03	Easington	Horden WwTW	Yes
08-D04	Hawthorn	Hawthorn WwTW	Yes
08-D05	Peterlee	Horden WwTW	Yes
08-D06	Seaburn & Roker	Hendon WwTW	Yes
08-D07	Hylton Castle	Hendon WwTW	Yes
08-D08	Wearmouth	Hendon WwTW	Yes
08-D09	Barnes Burn	Hendon WwTW	Yes
08-D10	Hendon Burn	Hendon WwTW	Yes
08-D11	Pallion	Hendon WwTW	Yes
08-D12	Ryhope & Silksworth	Hendon WwTW	Yes
08-D13	Nissan	Washington WwTW	Yes
08-D14	Washington North	Washington WwTW	Yes
08-D15	Washington Central	Washington WwTW	Yes
08-D16	Fatfield	Washington WwTW	Yes
08-D17	Burdon Village	Burdon Village WwTW	No
08-D18	Sheepfolds	Sheepfolds WwTW	No
11-D07	Sheraton	Sheraton WwTW	No

## KEY STAKEHOLDERS

It is widely recognised and acknowledged that drainage systems are complex and have numerous interactions, both known and unknown. It was therefore important that the DWMP was not created solely by Northumbrian Water. While NWL have been tasked with the delivery of the DWMP, it was critical that the public and relevant stakeholders actively participated and offered support in its creation. We have worked with a range of relevant stakeholders in the production of the DWMP, including the Environment Agency (EA), Lead Local Flood Authorities, Local Planning Authorities, housing developers and environmental partners.

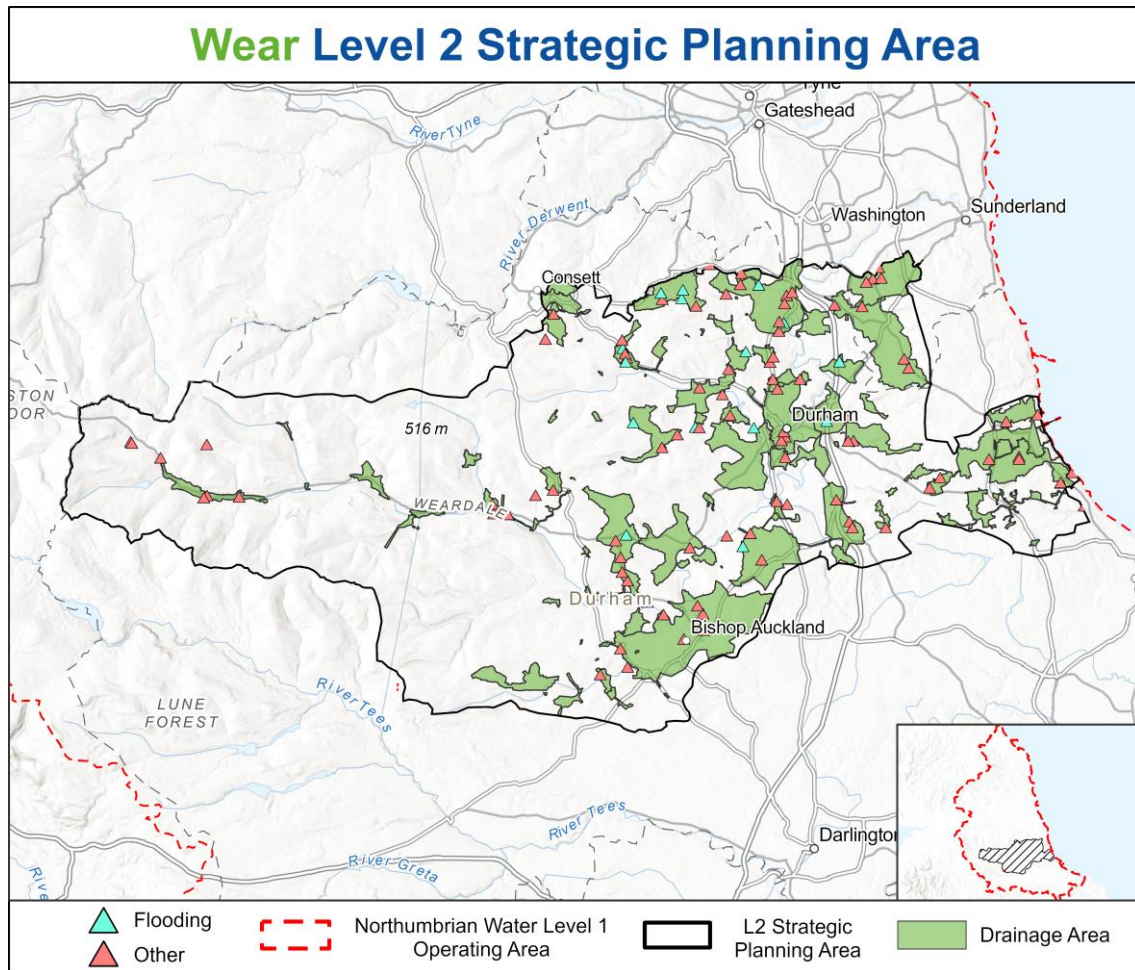
Through different partnerships and strategies, we play an active role within the region, working collaboratively with stakeholders on several projects. The DWMP builds on the strong foundation of the Northumbria Integrated Drainage Partnership (NIDP), which consists of 14 Lead Local Flood Authorities, the EA and Northumbrian Water. One of the aims of the NIDP is to identify opportunities to deliver surface water management schemes within catchments to reduce the risk and impact of flooding. Catchments are taken from the investigation stages where opportunity areas are identified, through to the outline business case stage to determine funding sources, and ultimately through to scheme delivery. The award-winning partnership approach, which is based around collaboration to identify priority investment areas where benefits can be delivered for multiple stakeholders, provides an excellent platform for the DWMP.

To ensure that existing and future opportunities for working collaboratively with stakeholders were included in the production of the DWMP, engagement sessions were held in March 2023. During these sessions, all the geographical areas covered by the DWMP were reviewed to identify, record and map ongoing and future opportunities.

Key Stakeholders
Environment Agency Local Authorities National Farmers Union Rivers Trusts Natural England Developers National Parks



## Collaborative Working Opportunities



## Significant Collaborative Working Opportunities

Drainage Area Reference	Organisation	Opportunity Type
06-D05	Environment Agency	Flood and Coastal Risk Management Programme August 2021
07-D04	Northumbria Integrated Drainage Partnership (NIDP)	Northumbria Integrated Drainage Partnership study planned for 2026.
07-D14	Environment Agency	Environment Programme Pipeline Projects 2023-2028, Northumbria Integrated Drainage Partnership
07-D15	Environment Agency	Environment Programme Pipeline Projects 2023-2028.
07-D34	Environment Agency	Environment Programme Pipeline Projects 2023-2028.
07-D35	Environment Agency	Environment Programme Pipeline Projects 2023-2028.
07-D41	Environment Agency	Environment Programme Pipeline Projects 2023-2028.
07-D41	Northumbria Integrated Drainage Partnership (NIDP)	Various NIDP schemes with Durham City and Newton Hall covering various areas depending on funding.
07-D44	Northumbria Integrated Drainage Partnership (NIDP)	Northumbria Integrated Drainage Partnership study starting in 2023.



Drainage Area Reference	Organisation	Opportunity Type
07-D57	Environment Agency	Environment Programme Pipeline Projects 2023-2028
07-D59	Environment Agency	Environment Programme Pipeline Projects 2023-2028
07-D60	Environment Agency	Environment Programme Pipeline Projects 2023-2028, Flood and Coastal Risk Management Programme August 2021, Northumbria Integrated Drainage Partnership Study phase
07-D60	Sunderland City Council	Potential to work with the council on various projects.

## CATCHMENT NEEDS

Through the Baseline Risk and Vulnerability Assessment (BRAVA) and Problem Characterisation stages of the DWMP, the requirements for investment within catchments were identified.

The following summaries provide the detail of the 'Catchment Needs' that have been identified within the Wear Level 2 SPA.

### Storm Overflow Discharge Reduction Plan

The following table summarises the number of storm overflows within the Wear Level 2 SPA and how many have been included in the DWMP for improvement in line with the Storm Overflow Discharge Reduction Plan (SODRP).

Storm Overflow Categorisation	Count	Storm Overflows Requiring Improvement
Inland – High Priority	157	114
Inland – Not High Priority	228	138
Bathing Water	0	0
Coastal / Estuarine (not linked to Bathing Water)	4	2
<b>Total</b>	<b>389</b>	<b>254</b>

### Storm Overflow Screening

Under the SODRP, all storm overflows are required to include 6mm screening provision on any discharges that are made.

The following table summarises the number of storm overflows within the Wear Level 2 SPA that have been included in the DWMP for the provision of 6mm screening.

Storm Overflow Categorisation	Count	Storm Overflows Requiring Screening
Inland – High Priority	157	70
Inland – Not High Priority	228	119
Bathing Water	0	0
Coastal / Estuarine (not linked to Bathing Water)	4	0
<b>Total</b>	<b>389</b>	<b>189</b>

The full list of storm overflows within the Northumberland Level 2 SPA is included in the following table.

Storm Overflow Site Name	Drainage Area Code	Drainage Area Name	Storm Overflow Spill Frequency Reduction Scheme - Delivery Period
HAMSTERLEY STW	06-D01	Hamsterley	2045 - 2050
HAMSTERLEY CSO	06-D01	Hamsterley	No Improvement Required
FIR TREE STW	06-D02	Fir Tree	2045 - 2050
LOW WADSWORTH STW	06-D04	Low Etherley	2030 - 2035
LOW WADSWORTH PS	06-D04	Low Etherley	2030 - 2035
PARK ROAD CSO WV41	06-D04	Low Etherley	No Improvement Required
PEASES WEST CSO	06-D05	Crook	2025 - 2030
WEST ROAD CSO	06-D05	Crook	2025 - 2030
ULSWATER CRESCENT CSO	06-D05	Crook	2025 - 2030
BLADESIDE CSO	06-D05	Crook	2025 - 2030
THE HOLLOWS CSO WV50	06-D05	Crook	2025 - 2030
THE HOLLOWS CSO WV49	06-D05	Crook	2025 - 2030
WITTON-LE-WEAR PS LOW LANE	06-D05	Crook	2025 - 2030
VALLEY TERRACE CSO	06-D05	Crook	2030 - 2035
WOODFIELD HILL CROOK CSO	06-D05	Crook	2040 - 2045
MILL FARM COMBINED SEWER OVERFLOW	06-D05	Crook	2040 - 2045
INSTITUTE TERRACE CSO	06-D05	Crook	No Improvement Required
GRANGE BANK CSO	06-D05	Crook	No Improvement Required
HUNTSHIELD FORD CSO	06-D06	St Johns Chapel & Westgate	2035 - 2040
WESTERN AREA STW	06-D06	St Johns Chapel & Westgate	2035 - 2040
VEDRA CLOSE SSO	06-D06	St Johns Chapel & Westgate	2035 - 2040
WESTGATE CARAVAN SITE CSO	06-D06	St Johns Chapel & Westgate	2035 - 2040
WESTGATE CSO	06-D06	St Johns Chapel & Westgate	2035 - 2040
STOTSFIELD BURN CSO	06-D07	Rookhope	2045 - 2050
ROOKHOPE STW	06-D07	Rookhope	2045 - 2050



Storm Overflow Site Name	Drainage Area Code	Drainage Area Name	Storm Overflow Spill Frequency Reduction Scheme - Delivery Period
RIVERSIDE (BUTTS CRESCENT) CSO	06-D09	Stanhope & Crawleyside	2030 - 2035
STANHOPE SWIMMING POOL CSO	06-D09	Stanhope & Crawleyside	2030 - 2035
ROSE TERRACE CSO	06-D09	Stanhope & Crawleyside	2035 - 2040
BONDISLE WAY CSO	06-D09	Stanhope & Crawleyside	2035 - 2040
STANHOPE STW	06-D09	Stanhope & Crawleyside	2035 - 2040
FROSTERLEY SEWAGE TREATMENT WORKS	06-D10	Frosterley	2045 - 2050
MILL COTTAGES CSO	06-D10	Frosterley	No Improvement Required
ANGATE STREET CSO	06-D13	Wolsingham	2045 - 2050
EAST END CSO	06-D13	Wolsingham	2045 - 2050
SCOTCH ISLE FARM CSO	06-D13	Wolsingham	2045 - 2050
WOLSINGHAM STW	06-D14	Thornley	2045 - 2050
TOW LAW STW Storm Tank	06-D15	Tow Law	2040 - 2045
CHURCH LANE CSO	06-D15	Tow Law	2040 - 2045
TOW LAW STW CSO INLET	06-D15	Tow Law	2040 - 2045
SACRISTON SEWAGE TREATMENT WORKS	07-D01	Sacriston	2045 - 2050
CHARLAW TERRACE CSO	07-D01	Sacriston	No Improvement Required
CROSS LANE CSO CH8	07-D01	Sacriston	No Improvement Required
PLAWSWORTH GATE CSO	07-D02	Nettlesworth	2025 - 2030
PLAWSWORTH CSO MH1	07-D02	Nettlesworth	2025 - 2030
PLAWSWORTH SEWAGE TREATMENT WORKS	07-D02	Nettlesworth	2035 - 2040
KIMBLESWORTH CSO	07-D02	Nettlesworth	No Improvement Required
BEECHVILLE CSO	07-D03	Edmondsley	2040 - 2045
EDMONDSLEY STW	07-D03	Edmondsley	2040 - 2045
CONGBURN BANK CSO	07-D03	Edmondsley	No Improvement Required
PELAW BANK CSO CH57	07-D04	Chester le Street	2025 - 2030

Storm Overflow Site Name	Drainage Area Code	Drainage Area Name	Storm Overflow Spill Frequency Reduction Scheme - Delivery Period
ASH MEADOWS CSO CHESTER LE STREET	07-D04	Chester le Street	2025 - 2030
BEVERLEY GARDENS CSO	07-D04	Chester le Street	2025 - 2030
PARK ROAD CSO	07-D04	Chester le Street	2025 - 2030
PELTON FELL ROAD 3 CSO CH14	07-D04	Chester le Street	2025 - 2030
PELTON FELL ROAD CSO	07-D04	Chester le Street	2025 - 2030
CONE LANE (CHESTER NO 4) CSO	07-D04	Chester le Street	2025 - 2030
HOPGARTH GARDENS CSO	07-D04	Chester le Street	2025 - 2030
CHESTER LE STREET STW STORM TANK	07-D04	Chester le Street	2025 - 2030
SHIELDS ROAD CSO	07-D04	Chester le Street	2025 - 2030
LINDOM AVENUE CSO	07-D04	Chester le Street	2030 - 2035
PARK ROAD NORTH CSO	07-D04	Chester le Street	2030 - 2035
HOLMHILL FIELD CSO CH043	07-D04	Chester le Street	2035 - 2040
GRANGE VILLA CSO	07-D04	Chester le Street	2035 - 2040
WALDRIDGE ROAD CSO CH 13	07-D04	Chester le Street	No Improvement Required
FRONT STREET CSO CH68	07-D04	Chester le Street	No Improvement Required
CHESTER LE STREET STW CSO Inlet	07-D04	Chester le Street	No Improvement Required
WARKWORTH DRIVE CSO	07-D04	Chester le Street	No Improvement Required
ROPERY LANE/EARDULPH AVE CSO	07-D04	Chester le Street	No Improvement Required
CHERRY BANKS CSO	07-D04	Chester le Street	No Improvement Required
TUART STREET CSO (NO1)	07-D04	Chester le Street	No Improvement Required
LUMLEY SEWAGE PUMPING STATION	07-D07	Great Lumley	2040 - 2045
SCORERS LANE CSO	07-D07	Great Lumley	2040 - 2045
FORMER CASTLE DENE SDW SSO	07-D07	Great Lumley	No Improvement Required
BACK LANE COMBINED SEWER OVERFLOW	07-D07	Great Lumley	No Improvement Required
PONT B CSO	07-D08	Leadgate North	2045 - 2050

Storm Overflow Site Name	Drainage Area Code	Drainage Area Name	Storm Overflow Spill Frequency Reduction Scheme - Delivery Period
ST IVES ROAD CSO	07-D08	Leadgate North	No Improvement Required
PONT LANE A CSO	07-D08	Leadgate North	No Improvement Required
PONT BUNGALOWS	07-D08	Leadgate North	No Improvement Required
CROOKHALL STW CSO INLET	07-D09	Leadgate South	2045 - 2050
CROOKHALL STW Storm Tank	07-D09	Leadgate South	No Improvement Required
BUTSFIELD LANE CSO DER092	07-D10	Delves	2030 - 2035
FELLSIDE CSO (DER 174)	07-D10	Delves	2040 - 2045
EAST OF KNITSLEY GRANGE FARM CSO	07-D10	Delves	2040 - 2045
KNITSLEY SEWAGE TREATMENT WORKS	07-D10	Delves	2040 - 2045
IVESTON LANE CSO	07-D12	Iveston East	No Improvement Required
SIXTH ST SSO	07-D13	Crookhall	2045 - 2050
5 SOUTH STREET CSO, CROOKHALL	07-D13	Crookhall	No Improvement Required
SOUTH STREET STORM SEWAGE OVERFLOW SECOND STREET	07-D13	Crookhall	No Improvement Required
THE MIDDLES CSO	07-D14	South Stanley & Craghead	2025 - 2030
HUSTLEDOWN ROAD CSO	07-D14	South Stanley & Craghead	2025 - 2030
CSO ADJACENT 40 HOLLYHILL GARDENS	07-D14	South Stanley & Craghead	2025 - 2030
HOLYHILL GARDENS EAST CSO	07-D14	South Stanley & Craghead	2025 - 2030
NIGHTINGALE PLACE CSO	07-D14	South Stanley & Craghead	2025 - 2030
50 WOODSIDE GARDENS CSO	07-D14	South Stanley & Craghead	2025 - 2030
KIMBERLEY GARDENS CSO (DER 82)	07-D14	South Stanley & Craghead	2025 - 2030
HUSTLEDOWN STW	07-D14	South Stanley & Craghead	2025 - 2030
FRONT STREET CSO	07-D14	South Stanley & Craghead	2025 - 2030
SOUTH MOOR MEMORIAL PARK SSO	07-D14	South Stanley & Craghead	2030 - 2035
DURHAM ROAD CSO	07-D14	South Stanley & Craghead	2045 - 2050
WILLIAM STREET CSO	07-D14	South Stanley & Craghead	2045 - 2050



Storm Overflow Site Name	Drainage Area Code	Drainage Area Name	Storm Overflow Spill Frequency Reduction Scheme - Delivery Period
SOUTH MOOR CSO CHARLES STREET DER066 - NWL name	07-D14	South Stanley & Craghead	No Improvement Required
EAST VIEW CSO	07-D14	South Stanley & Craghead	No Improvement Required
OLIVER STREET CSO	07-D14	South Stanley & Craghead	No Improvement Required
SOUTH MOOR ROAD FOOTBALL CLUB CSO	07-D14	South Stanley & Craghead	No Improvement Required
BURNHOPE P.S. CSO & CER	07-D15	Lanchester & Burnhope	2025 - 2030
CSO MANOR COURT	07-D15	Lanchester & Burnhope	2025 - 2030
LYNWOOD HOUSE CSO DER44	07-D15	Lanchester & Burnhope	2025 - 2030
RAILWAY SREET CSO	07-D15	Lanchester & Burnhope	2030 - 2035
LANCHESTER STW	07-D15	Lanchester & Burnhope	2045 - 2050
MOUNT PLEASANT CSO (DER41)	07-D15	Lanchester & Burnhope	2045 - 2050
CRICKET GROUND HOLMSIDE LANE CSO	07-D15	Lanchester & Burnhope	No Improvement Required
FRONT STREET CSO	07-D16	Langley Park & Witton Gilbert	2030 - 2035
WITTON GILBERT STW	07-D16	Langley Park & Witton Gilbert	2030 - 2035
LANGLEY PARK SEWAGE PS FINNINGS AVENUE	07-D16	Langley Park & Witton Gilbert	2040 - 2045
OPPOSITE 16 FRONT STREET CSO	07-D16	Langley Park & Witton Gilbert	2040 - 2045
DENESIDE CSO	07-D16	Langley Park & Witton Gilbert	2040 - 2045
BACK ELM STREET CSO	07-D16	Langley Park & Witton Gilbert	No Improvement Required
FRONT STREET CSO	07-D16	Langley Park & Witton Gilbert	No Improvement Required
WITTON GILBERT STW	07-D16	Langley Park & Witton Gilbert	No Improvement Required
SATLEY STW	07-D17	Satley	2045 - 2050
MILLHOUSE FARM CSO	07-D17	Satley	No Improvement Required
HOLLINSIDE SEWAGE DISPOSAL WORKS	07-D22	Hollinside Hall	No Improvement Required
SOUTH FARM CSO	07-D24	Cornsay	No Improvement Required
ESH WINNING CSO POINT A2 STAGS HEAD Hamilton Row	07-D25	Esh Winning	2035 - 2040
ESH WINNING CSO POINT A2 STAGS HEAD	07-D25	Esh Winning	2035 - 2040

Storm Overflow Site Name	Drainage Area Code	Drainage Area Name	Storm Overflow Spill Frequency Reduction Scheme - Delivery Period
TOOL HIRE CSO	07-D25	Esh Winning	2035 - 2040
QUEBEC PUMPING STATION	07-D25	Esh Winning	2035 - 2040
ESH WINNING CSO POINT A2	07-D25	Esh Winning	2035 - 2040
HIGH WATERHOUSE FARM (100M WEST OF)	07-D25	Esh Winning	2035 - 2040
ESH WINNING SPS	07-D25	Esh Winning	2035 - 2040
FAIR VIEW STORM SEWAGE OVERFLOW	07-D25	Esh Winning	2035 - 2040
REAR AGED MINERS HOMES CSO	07-D25	Esh Winning	No Improvement Required
ESH WINNING SEWAGE TREATMENT WORKS	07-D25	Esh Winning	No Improvement Required
CORNSAY COLLIERY STORM SEWAGE OVERF	07-D25	Esh Winning	No Improvement Required
ALDIN GRANGE CSO	07-D26	Bearpark	2040 - 2045
BEAR PARK (ALDIN GRANGE) STW	07-D26	Bearpark	2040 - 2045
SOUTH OF ROOKWOOD CSO NTY 003	07-D26	Bearpark	No Improvement Required
FRONT STREET CSO	07-D27	Ushaw Moor & Brandon	2030 - 2035
TOLL HOUSE ROAD CSO	07-D27	Ushaw Moor & Brandon	2030 - 2035
BROWNEY LANE CSO	07-D27	Ushaw Moor & Brandon	2030 - 2035
SCOUT HOUSE FARM 1 CSO	07-D27	Ushaw Moor & Brandon	2040 - 2045
BROOM PARK OLD WORKS CSO	07-D27	Ushaw Moor & Brandon	2040 - 2045
SCOUT HOUSE FARM 2 CSO	07-D27	Ushaw Moor & Brandon	2040 - 2045
BLEACH GREEN FARM CSO	07-D27	Ushaw Moor & Brandon	2040 - 2045
GROVE TERRACE CSO DU005	07-D27	Ushaw Moor & Brandon	2040 - 2045
STONEBRIDGE SEWAGE PUMPING STATION	07-D27	Ushaw Moor & Brandon	2040 - 2045
DURHAM SKILL CENTRE CSO DU008	07-D27	Ushaw Moor & Brandon	2040 - 2045
BROWNEY STW	07-D27	Ushaw Moor & Brandon	2040 - 2045
WATERHOUSE CSO	07-D27	Ushaw Moor & Brandon	No Improvement Required
BRANDON VILLAGE SSO STOBBS HOUSE	07-D27	Ushaw Moor & Brandon	No Improvement Required

Storm Overflow Site Name	Drainage Area Code	Drainage Area Name	Storm Overflow Spill Frequency Reduction Scheme - Delivery Period
SNOWDONS FARM CSO	07-D27	Ushaw Moor & Brandon	No Improvement Required
GOATSBECK TERRACE CSO	07-D27	Ushaw Moor & Brandon	No Improvement Required
BRANCEPETH STW	07-D29	Brancepeth	2045 - 2050
BRANCEPETH CSO	07-D29	Brancepeth	No Improvement Required
RECTORY COTTAGE CSO	07-D29	Brancepeth	No Improvement Required
SUNDERLAND BRIDGE STW	07-D30	Sunderland Bridge	2030 - 2035
SUNDERLAND BRIDGE CSO	07-D30	Sunderland Bridge	2030 - 2035
CROSS STREET CSO	07-D30	Sunderland Bridge	No Improvement Required
WEST STREET CSO	07-D30	Sunderland Bridge	No Improvement Required
CORNFORTH PUMPING STATION	07-D31	Bowburn	2040 - 2045
Tursdale PS - NWL name	07-D31	Bowburn	2040 - 2045
EDNA STREET CSO	07-D31	Bowburn	2040 - 2045
BOWBURN BRIDGE PS	07-D31	Bowburn	2040 - 2045
BLACK HORSE CSO	07-D31	Bowburn	2040 - 2045
PARADISE FARM (WILLOW FARM) CSO	07-D31	Bowburn	2040 - 2045
BOWBURN STW (2002) CSO INLET	07-D31	Bowburn	2040 - 2045
PARK HILL CSO	07-D31	Bowburn	2040 - 2045
COXHOE CSO CORNFORTH LANE	07-D31	Bowburn	No Improvement Required
BOWBURN STW (2002) Storm Tank	07-D31	Bowburn	No Improvement Required
CASSOP STW	07-D32	Cassop	2040 - 2045
KELLOE SSO MANHOLE NO. 18 PLAYING FIELD	07-D33	Kelloe	2045 - 2050
KELLOE STW	07-D33	Kelloe	2045 - 2050
RAILWAY LINE CSO	07-D33	Kelloe	2045 - 2050
DAVEY LAMP PH CSO BURNETT CRESCENT	07-D33	Kelloe	2045 - 2050
WORKINGMEN'S CLUB CSO	07-D33	Kelloe	No Improvement Required



Storm Overflow Site Name	Drainage Area Code	Drainage Area Name	Storm Overflow Spill Frequency Reduction Scheme - Delivery Period
WEST RANTON CSO DU085 STW MH21	07-D34	West Rainton	2025 - 2030
WEST RANTON CSO DU085 STW MH21	07-D34	West Rainton	2025 - 2030
WEST RANTON STW LEAMSIDE	07-D34	West Rainton	2025 - 2030
PITHOUSE LANE CSO (WEST RANTON 5)	07-D34	West Rainton	2025 - 2030
FINCHALE VIEW	07-D34	West Rainton	2025 - 2030
LEAMSIDE CSO	07-D34	West Rainton	2035 - 2040
WEST RANTON CSO DU085 STW MH21	07-D34	West Rainton	No Improvement Required
BELMONT STW	07-D35	Carrville & Belmont & Shincliffe	2025 - 2030
SHINCLIFFE (A177) CSO	07-D35	Carrville & Belmont & Shincliffe	2025 - 2030
RENNYS LANE PUMPING STATION	07-D35	Carrville & Belmont & Shincliffe	2045 - 2050
SHINCLIFFE SSO MANHOLE NO. 2	07-D35	Carrville & Belmont & Shincliffe	No Improvement Required
JUBILEE PLACE CSO	07-D35	Carrville & Belmont & Shincliffe	No Improvement Required
SHINCLIFFE NO 2 PS	07-D35	Carrville & Belmont & Shincliffe	No Improvement Required
DRAGON LANE CSO	07-D35	Carrville & Belmont & Shincliffe	No Improvement Required
DEVONSHIRE ROAD WEST CSO	07-D35	Carrville & Belmont & Shincliffe	No Improvement Required
DEVONSHIRE ROAD EAST CSO	07-D35	Carrville & Belmont & Shincliffe	No Improvement Required
FALLSWAY CSO (DU57)	07-D35	Carrville & Belmont & Shincliffe	No Improvement Required
HIGH ST CSO	07-D35	Carrville & Belmont & Shincliffe	No Improvement Required
LOW PITTINGTON PUMPING STATION	07-D36	Pittington	2040 - 2045
PITTINGTON STW	07-D36	Pittington	2040 - 2045
HIGH PITTINGTON CSOS, MHS 27,28&29 COALFORD LANE Church Vale 2	07-D36	Pittington	No Improvement Required
HIGH PITTINGTON STW CSO CHURCH VALE 1	07-D36	Pittington	No Improvement Required
HIGH PITTINGTON CSOS, MHS 27,28&29 COALFORD LANE	07-D36	Pittington	No Improvement Required
CHAPEL COURT DU068	07-D37	Sherburn	2030 - 2035
LUDWORTH SSO MOOR CRESCENT	07-D37	Sherburn	2030 - 2035

Storm Overflow Site Name	Drainage Area Code	Drainage Area Name	Storm Overflow Spill Frequency Reduction Scheme - Delivery Period
MILL LANE CSO	07-D37	Sherburn	2030 - 2035
SHERBURN SSO MANHOLE NO. 34	07-D37	Sherburn	2045 - 2050
SHERBURN SEWAGE TREATMENT WORKS	07-D37	Sherburn	2045 - 2050
CHURCH VILLAS CSO	07-D37	Sherburn	2045 - 2050
STATION BANK (DU21)	07-D37	Sherburn	2045 - 2050
SHERBURN SSO MANHOLE NO. 33 Mill Lane	07-D37	Sherburn	2045 - 2050
LOCAL AVENUE	07-D37	Sherburn	No Improvement Required
SHERBURN SSO MANHOLE NO 32	07-D37	Sherburn	No Improvement Required
PITY ME SEWAGE TREATMENT WORKS	07-D39	Pity Me	2030 - 2035
PITY ME ROUNDABOUT CSO	07-D39	Pity Me	2030 - 2035
ROWAN DRIVE CSO (DU 52)	07-D40	Newton Grange	No Improvement Required
LAUREL AVENUE CSO	07-D41	Durham City & Newton Hall	2025 - 2030
PELAW WOOD SEWER, NO 1 BATHS BRIDGE	07-D41	Durham City & Newton Hall	2025 - 2030
SANDS SYPHON SSO	07-D41	Durham City & Newton Hall	2025 - 2030
BARKERS HAUGH CSO NO. 10 Orchard Drive	07-D41	Durham City & Newton Hall	2025 - 2030
ELVET SYPHON CSO	07-D41	Durham City & Newton Hall	2025 - 2030
MILLBURNGATE CSO	07-D41	Durham City & Newton Hall	2025 - 2030
FRANKLAND LANE CSO	07-D41	Durham City & Newton Hall	2025 - 2030
HIGH CARR ROAD CSO	07-D41	Durham City & Newton Hall	2025 - 2030
BARKERS HAUGH STW	07-D41	Durham City & Newton Hall	2025 - 2030
BARKERS HAUGH NO 8 CSO Freemans Place	07-D41	Durham City & Newton Hall	2030 - 2035
CANTEBURY ROAD CSO	07-D41	Durham City & Newton Hall	2030 - 2035
WALKERGATE DURHAM CSO	07-D41	Durham City & Newton Hall	2030 - 2035
WADDINGTON STREET CSO	07-D41	Durham City & Newton Hall	2035 - 2040
AINSLEY STREET CSO	07-D41	Durham City & Newton Hall	2035 - 2040

Storm Overflow Site Name	Drainage Area Code	Drainage Area Name	Storm Overflow Spill Frequency Reduction Scheme - Delivery Period
CATHEDRAL BANKS CSO	07-D41	Durham City & Newton Hall	No Improvement Required
ATHERTON STREET CSO	07-D41	Durham City & Newton Hall	No Improvement Required
CHURCH STREET DU026	07-D41	Durham City & Newton Hall	No Improvement Required
BARCLAYS A CSO ELVET	07-D41	Durham City & Newton Hall	No Improvement Required
CATHEDRAL BANKS CSO Barkers Haugh CSO3 Court Lane West	07-D41	Durham City & Newton Hall	No Improvement Required
BARKERS HAUGH NO 5 CSO Prebends Bridge	07-D41	Durham City & Newton Hall	No Improvement Required
PELAW WOOD ST. GILES CLOSE CSO	07-D41	Durham City & Newton Hall	No Improvement Required
STOCKTON RD & QUARRY HEADS LN CSOS	07-D41	Durham City & Newton Hall	No Improvement Required
SALISBURY PS	07-D41	Durham City & Newton Hall	No Improvement Required
DURHAM UNIVERSITY STW Storm Tank	07-D42	Elvet Hill	2030 - 2035
DURHAM UNIVERSITY STW CSO INLET	07-D42	Elvet Hill	2030 - 2035
MAYFIELD CSO	07-D44	Spennymoor	2025 - 2030
BURTON BECK CSO	07-D44	Spennymoor	2025 - 2030
COW PLANTATION CSO	07-D44	Spennymoor	2025 - 2030
TUDHOE MILL SEWAGE TREATMENT WORKS CSO INLET	07-D44	Spennymoor	2025 - 2030
TUDHOE MILL SEWAGE TREATMENT WORKS CSO INLET	07-D44	Spennymoor	2025 - 2030
NICKY NACK PUMPING STATION	07-D44	Spennymoor	2045 - 2050
20 PEARSON STREET CSO SE 009	07-D44	Spennymoor	No Improvement Required
ATTWOOD TERRACE CSO SE008	07-D44	Spennymoor	No Improvement Required
YORK HILL CSO	07-D44	Spennymoor	No Improvement Required
WEST CORNFORTH SPS	07-D45	Cornforth	2035 - 2040
MAUGHAN CLOSE CSO SE39	07-D45	Cornforth	No Improvement Required
EAST HOWLE STW	07-D46	East Howle	No Improvement Required
WEAR VIEW B CSO	07-D47	Byers Green	2040 - 2045
BYERS GREEN PUMPING STATION	07-D47	Byers Green	2040 - 2045

Storm Overflow Site Name	Drainage Area Code	Drainage Area Name	Storm Overflow Spill Frequency Reduction Scheme - Delivery Period
WEAR VIEW A CSO SE001	07-D47	Byers Green	2040 - 2045
HALL FARM CSO (SE037)	07-D47	Byers Green	No Improvement Required
METAL BRIDGE SPS AND CSO	07-D49	Metal Bridge	No Improvement Required
BLACKBURN BRIDGE CSO (TE 015)	07-D51	Cockfield & Esperley	2035 - 2040
COCKFIELD STW	07-D51	Cockfield & Esperley	2035 - 2040
FALLOWS CSO	07-D51	Cockfield & Esperley	No Improvement Required
COCKFIELD FELL NO2 CSO	07-D51	Cockfield & Esperley	No Improvement Required
SOUTH OF COCKFIELD STW CSO TE63	07-D51	Cockfield & Esperley	No Improvement Required
MOSTYN TERRACE CSO	07-D51	Cockfield & Esperley	No Improvement Required
LYNESACK AND SOFTLEY CSO (TE 011)	07-D52	Butterknowle	2035 - 2040
THE SLACK	07-D52	Butterknowle	2035 - 2040
BUTTERKNOWLE CSO 2	07-D52	Butterknowle	2035 - 2040
BUTTERKNOWLE SEWAGE TREATMENT WORKS	07-D52	Butterknowle	2035 - 2040
QUARRY LANE SSO	07-D52	Butterknowle	2035 - 2040
THE SLACK CSO (TE 010)	07-D52	Butterknowle	No Improvement Required
COCKFIELD P.S. & LANDS FARM CSO	07-D53	High Lands	No Improvement Required
RAMSHAW PS	07-D54	North Evenwood & Ramshaw	2040 - 2045
RAMSHAW SEWAGE TREATMENT WORKS	07-D54	North Evenwood & Ramshaw	2040 - 2045
RAMSHAW SEWAGE TREATMENT WORKS Storm Tank	07-D54	North Evenwood & Ramshaw	2040 - 2045
EVENWOOD LANE CSO	07-D55	South Evenwood	2045 - 2050
NEW MOORS SEWAGE TREATMENT WORKS	07-D55	South Evenwood	2045 - 2050
CATTLE MARKET B SSO	07-D57	Bishop Auckland	2025 - 2030
RIVERSIDE CSO	07-D57	Bishop Auckland	2025 - 2030
ETHERLEY LANE CSO	07-D57	Bishop Auckland	2025 - 2030
ESCOMB SPS	07-D57	Bishop Auckland	2025 - 2030



Storm Overflow Site Name	Drainage Area Code	Drainage Area Name	Storm Overflow Spill Frequency Reduction Scheme - Delivery Period
DELLWOOD PUMPED STORAGE TANK CSO	07-D57	Bishop Auckland	2025 - 2030
WEAR CHARE CSO	07-D57	Bishop Auckland	2025 - 2030
VINOVIUM STW	07-D57	Bishop Auckland	2030 - 2035
OAKLEY GREEN CSO	07-D57	Bishop Auckland	2045 - 2050
FIELDON BRIDGE CSO	07-D57	Bishop Auckland	2045 - 2050
VINOVIUM CSO A27	07-D57	Bishop Auckland	2045 - 2050
CAROLINE STREET CSO	07-D57	Bishop Auckland	2045 - 2050
DENE HALL DRIVE CSO	07-D57	Bishop Auckland	2045 - 2050
VINOVIUM SSOS A17, A18, A19 & A21	07-D57	Bishop Auckland	2045 - 2050
CUMBERLAND STREET SSO	07-D57	Bishop Auckland	2045 - 2050
VINOVIUM SSO NO A23 ATHERTON TERRACE	07-D57	Bishop Auckland	2045 - 2050
ETHERLEY LANE (NO.100) CSO	07-D57	Bishop Auckland	2045 - 2050
CHAPEL STREET CSO BARRINGTON STREET	07-D57	Bishop Auckland	2045 - 2050
VINOVIUM SSO NO A13	07-D57	Bishop Auckland	2045 - 2050
LEASINGTHORPE FARM CSO	07-D57	Bishop Auckland	2045 - 2050
PARK HEAD STORAGE TANK CSO	07-D57	Bishop Auckland	2045 - 2050
TOFT HILL EJECTOR CSO	07-D57	Bishop Auckland	2045 - 2050
TOAD POOL CSO TE351	07-D57	Bishop Auckland	2045 - 2050
WADES FARM CSO WV 010	07-D57	Bishop Auckland	2045 - 2050
LEASINGTHORNE SPS CSO	07-D57	Bishop Auckland	2045 - 2050
SOUTH ROAD LOWER CSO	07-D57	Bishop Auckland	No Improvement Required
SOUTH ROAD UPPER CSO	07-D57	Bishop Auckland	No Improvement Required
COPELAND ESTATE OFF SITE SEWER	07-D57	Bishop Auckland	No Improvement Required
CLOSE HOUSE STORM SEWAGE OVERFLOW	07-D57	Bishop Auckland	No Improvement Required
VINOVIUM CSO NO A22	07-D57	Bishop Auckland	No Improvement Required

Storm Overflow Site Name	Drainage Area Code	Drainage Area Name	Storm Overflow Spill Frequency Reduction Scheme - Delivery Period
SOUTH CHURCH CSO	07-D57	Bishop Auckland	No Improvement Required
ETHERLEY LANE (NO.87) CSO	07-D57	Bishop Auckland	No Improvement Required
CHAPEL STREET CSO	07-D57	Bishop Auckland	No Improvement Required
GOMER TCE SSO	07-D57	Bishop Auckland	No Improvement Required
VINOVIUM CSO NO A9	07-D57	Bishop Auckland	No Improvement Required
GIB CHARE HOUSING DEVELOPMENT VINOVIUM NOA14	07-D57	Bishop Auckland	No Improvement Required
RUTLAND STREET/LEEOLME ROAD CSO	07-D57	Bishop Auckland	No Improvement Required
BINCHESTER PLANTATION CSO	07-D57	Bishop Auckland	No Improvement Required
BELL BURN WOOD CSO WV042	07-D57	Bishop Auckland	No Improvement Required
VINOVIUM SSO NO A32 RIVER WALK WV 12	07-D57	Bishop Auckland	No Improvement Required
WOODHOUSE LANE LIBRARY CSO	07-D57	Bishop Auckland	No Improvement Required
NEWFIELD STW	07-D58	Newfield	2035 - 2040
NEWFIELD FARM CSO (NEW FIELD CSO 1)	07-D58	Newfield	No Improvement Required
CSO WV80 DISUSED STW HUNWICK	07-D59	Willington & Hunwick	2025 - 2030
SUNNYBROW SEWAGE PUMPING STATION	07-D59	Willington & Hunwick	2025 - 2030
BURNISTON DRIVE PS	07-D59	Willington & Hunwick	No Improvement Required
LOW WILLINGTON PARK CSO	07-D59	Willington & Hunwick	2025 - 2030
RUSSEL PLACE CSO	07-D59	Willington & Hunwick	2035 - 2040
WILLINGTON SYSTEM CSO	07-D59	Willington & Hunwick	2035 - 2040
CSO WV79 ROUGH LEA LANE	07-D59	Willington & Hunwick	2035 - 2040
GARDNER AVENUE CSO	07-D59	Willington & Hunwick	2035 - 2040
OAKENSHAW CSO	07-D59	Willington & Hunwick	No Improvement Required
WILLINGTON STW	07-D59	Willington & Hunwick	No Improvement Required
HUNWICK LANE CSO	07-D59	Willington & Hunwick	No Improvement Required
CHAPEL STREET CSO	07-D59	Willington & Hunwick	No Improvement Required

Storm Overflow Site Name	Drainage Area Code	Drainage Area Name	Storm Overflow Spill Frequency Reduction Scheme - Delivery Period
66 ROSS LEA CSO	07-D60	Herrington	2025 - 2030
WESTBOURNE DRIVE CSO	07-D60	Herrington	2025 - 2030
SHINEY ROW FOOTBRIDGE CSO	07-D60	Herrington	2025 - 2030
HOUGHTON LE SPRING CSO	07-D60	Herrington	2030 - 2035
WEST PARK ESTATE CSO	07-D60	Herrington	No Improvement Required
BOURN LEA CSO CH087	07-D60	Herrington	No Improvement Required
GOLF COURSE ROAD CSO	07-D60	Herrington	No Improvement Required
WARDEN GROVE SSO	07-D61	Houghton/Hetton	2030 - 2035
HETTON ROAD CSO SU33	07-D61	Houghton/Hetton	2030 - 2035
STANHOPE CLOSE CSO SU 26	07-D61	Houghton/Hetton	2045 - 2050
A690 SLIP ROAD CSO, SU27	07-D61	Houghton/Hetton	2045 - 2050
SEDGELETCHE STW Storm Tank	07-D61	Houghton/Hetton	2045 - 2050
HETTON PARK BOWLING GREEN CSO	07-D61	Houghton/Hetton	2045 - 2050
HETTON-LE-HOLE SSO NO. 3	07-D61	Houghton/Hetton	2045 - 2050
GILLAS LANE WEST CSO (SU30)	07-D61	Houghton/Hetton	2045 - 2050
CHURCH STREET NO26 CSO	07-D61	Houghton/Hetton	2045 - 2050
BRINKBURN CRESCENT CSO (SU28)	07-D61	Houghton/Hetton	2045 - 2050
SEAHAM ROAD CSO SU35	07-D61	Houghton/Hetton	2045 - 2050
OTTERBURN CRESCENT CSO	07-D61	Houghton/Hetton	2045 - 2050
FLOATERS MILL PS CSO	07-D61	Houghton/Hetton	2045 - 2050
AVENUE VIVIAN CSO SU013	07-D61	Houghton/Hetton	2045 - 2050
OSMAN TERRACE CSO	07-D61	Houghton/Hetton	2045 - 2050
SEDGELETCHE BRIDGE CSO	07-D61	Houghton/Hetton	2045 - 2050
SEDGELETCHE STW CSO INLET	07-D61	Houghton/Hetton	2045 - 2050
BOURNMOOR SPS	07-D61	Houghton/Hetton	No Improvement Required

Storm Overflow Site Name	Drainage Area Code	Drainage Area Name	Storm Overflow Spill Frequency Reduction Scheme - Delivery Period
GILLAS LANE EAST CSO (SU32)	07-D61	Houghton/Hetton	No Improvement Required
ROSE CRESCENT CSO	07-D61	Houghton/Hetton	No Improvement Required
ELEMORE VALE SPS	07-D61	Houghton/Hetton	No Improvement Required
HETTON-LE-HOLE SSO NO. 1	07-D61	Houghton/Hetton	No Improvement Required
BRINKBURN SSO	07-D61	Houghton/Hetton	No Improvement Required
REAR ST MICHAELS CSO	07-D61	Houghton/Hetton	No Improvement Required
DAIRY LANE CSO SU024	07-D61	Houghton/Hetton	No Improvement Required
BURNSIDE AVENUE CSO	07-D61	Houghton/Hetton	No Improvement Required
JOYCE TERRACE AND DEERNESS VIEW STW	07-D63	Deerness View	No Improvement Required
Heugh Hall Row STW NWL name	07-D65	Heugh Hall	No Improvement Required
CEMETERY RD SSO	08-D03	Easington	2040 - 2045
THROSTLES NEST STORAGE TANK	08-D03	Easington	2040 - 2045
Allotment Gardens, Shotton Colliery - NWL name	08-D03	Easington	2040 - 2045
HORDEN DENE SSO NO 1 OAK ROAD	08-D03	Easington	2040 - 2045
SUNDERLAND ROAD CSO	08-D03	Easington	2040 - 2045
BELFORD STREET CSO	08-D03	Easington	2040 - 2045
BLACKHILLS FARM CSO	08-D03	Easington	2040 - 2045
PATTON STREET STORAGE TANK	08-D03	Easington	2040 - 2045
THROSTLES NEST PUMPING STATION	08-D03	Easington	2040 - 2045
PARADISE FARM CSO	08-D03	Easington	2040 - 2045
EASINGTON OUTFALL HORDEN DENE SPS	08-D03	Easington	2040 - 2045
STATION ROAD CSO	08-D03	Easington	2040 - 2045
REAR OF THIRD STREET CSO	08-D03	Easington	2040 - 2045
HORDEN STW	08-D03	Easington	2040 - 2045
WARREN HOUSE SEA OUTFALL HIGH RELIEF	08-D03	Easington	No Improvement Required

Storm Overflow Site Name	Drainage Area Code	Drainage Area Name	Storm Overflow Spill Frequency Reduction Scheme - Delivery Period
COOPERS CLOSE CSO	08-D03	Easington	No Improvement Required
HORDEN BURN CSO NO.3	08-D03	Easington	No Improvement Required
COTSFORD JUNIOR SCHOOL CSO	08-D03	Easington	No Improvement Required
SOUTH EAST VIEW CSO	08-D03	Easington	No Improvement Required
TILERY FARM STRAGE TANK CSO	08-D05	Peterlee	2025 - 2030
BLUEHOUSE GILL CSO	08-D05	Peterlee	2025 - 2030
WEST WOODBURN CSO	08-D05	Peterlee	2035 - 2040
WELLFIELD PS	08-D05	Peterlee	2035 - 2040
DENE HOLME OUTFALL TIDAL TANK	08-D05	Peterlee	No Improvement Required
DENE HOLME SEWAGE PUMPING STATION TIDAL TANK	08-D05	Peterlee	No Improvement Required
WINGATE CSO NO 1	08-D05	Peterlee	No Improvement Required
WOODLAND VIEW CSO	08-D05	Peterlee	No Improvement Required
EAST TERRACE CSO	08-D05	Peterlee	No Improvement Required
SHERATON CSO 50M SW OF STW	11-D07	Sheraton	No Improvement Required



## Wastewater Treatment Works Compliance

Analyses have been completed to determine the interventions that are likely to be required to ensure all wastewater treatment works (WwTW) are operating in compliance with the permits for dry weather flow (DWF) treatment and treated effluent discharge quality.

The following table summarises the number of WwTWs within the Wear Level 2 SPA that have been included in the DWMP for DWF permit compliance and treated effluent discharge quality permit compliance (phosphorous (P), biological oxygen demand (BOD) and ammonia (Amm) indicators).

WwTW Name	Intervention(s) Required
Aldin Grange Nth (Bearpark) WwTW	Aldin Grange Nth (Bearpark) WwTW has been identified as requiring a dry weather flow compliance upgrade between 2025 and 2030.
Belmont WwTW	Belmont WwTW has been identified as requiring an investigation for discharge quality compliance has been identified for Ammonia between 2025 and 2030.
Bishop Auckland (Vinovium) WwTW	Bishop Auckland (Vinovium) WwTW has been identified as requiring an investigation for discharge quality compliance has been identified for Phosphorous and Ammonia between 2025 and 2030.
Bowburn WwTW	Bowburn WwTW is being investigated/upgraded currently for dry weather flow compliance.
Brancepeth WwTW	Brancepeth WwTW has been identified as requiring an investigation for discharge quality compliance has been identified for Phosphorous between 2025 and 2030.
Brasside WwTW	Brasside WwTW has been identified as requiring an investigation for discharge quality compliance has been identified for Phosphorous between 2025 and 2030 and Ammonia between 2040 and 2045.
Brownley WwTW	Brownley WwTW has been identified as requiring a dry weather flow compliance upgrade between 2025 and 2030.
Butterknowle WwTW	Butterknowle WwTW has been identified as requiring an investigation for discharge quality compliance has been identified for Biological Oxygen Demand and Ammonia between 2025 and 2030.
Cassop WwTW	Cassop WwTW has been identified as requiring an investigation for discharge quality compliance has been identified for Biological Oxygen Demand between 2040 and 2045.
Chester Le Street WwTW	Chester Le Street WwTW has been identified as requiring an investigation for discharge quality compliance has been identified for Ammonia between 2030 and 2035.
Cockfield WwTW	Cockfield WwTW has been identified as requiring an investigation for discharge quality compliance has been identified for Biological Oxygen Demand and Ammonia between 2025 and 2030.
Crookhall WwTW	Crookhall WwTW has been identified as requiring an investigation for discharge quality compliance has been identified for Ammonia between 2025 and 2030.
Esh Winning WwTW	Esh Winning WwTW has been identified as requiring an investigation for discharge quality compliance has been identified for Biological Oxygen Demand and Ammonia between 2030 and 2035.
Fir Tree WwTW	Fir Tree WwTW has been identified as requiring an investigation for discharge quality compliance has been identified for Ammonia between 2030 and 2035.
Hamsterley WwTW	Hamsterley WwTW has been identified as requiring an investigation for discharge quality compliance has been identified for Phosphorous between 2025 and 2030.
Hustledown WwTW	Hustledown WwTW has been identified as requiring an investigation for discharge quality compliance has been identified for Phosphorous, Biological Oxygen Demand and Ammonia between 2025 and 2030.

WwTW Name	Intervention(s) Required
Knitsley WwTW	Knitsley WwTW has been identified as requiring an investigation for discharge quality compliance has been identified for Biological Oxygen Demand between 2025 and 2030.
Low Wadsworth WwTW	Low Wadsworth WwTW has been identified as requiring an investigation for discharge quality compliance has been identified for Phosphorous and Ammonia between 2025 and 2030.
Pity Me WwTW	Pity Me WwTW has been identified as requiring a dry weather flow compliance upgrade between 2025 and 2030.
Ramshaw WwTW	Ramshaw WwTW has been identified as requiring an investigation for discharge quality compliance has been identified for Biological Oxygen Demand and Ammonia between 2025 and 2030.
Tow Law WwTW	Tow Law WwTW has been identified as requiring an investigation for discharge quality compliance has been identified for Phosphorous between 2025 and 2030.
Tudhoe Mill WwTW	Tudhoe Mill WwTW has been identified as requiring an investigation for discharge quality compliance has been identified for Ammonia between 2030 and 2040.
University WwTW	University WwTW has been identified as requiring an investigation for discharge quality compliance has been identified for Phosphorous between 2025 and 2030.
Willington WwTW	Willington WwTW has been identified as requiring a dry weather flow compliance upgrade between 2055 and 2060. An investigation for discharge quality compliance has been identified for Phosphorous between 2025 and 2030 and Ammonia between 2030 and 2035.

### Long-Term Delivery Strategy for Flooding

The National Infrastructure Commission's report 'Reducing the risk of surface water flooding'<sup>1</sup> highlighted the importance of a national approach to tackle flooding, and the costs and challenges of eliminating sewer flooding. Given this, and the greater insight we have gained from developing the DWMP, the ambition for flooding and pollution risk has been adjusted to what is considered a stretching but achievable level that would be economically beneficial to deliver.

Our Long-Term Delivery Strategy identifies a target of reducing sewer flooding by 60% from our 2025 position. To achieve this, we will plan to reduce hydraulic flood risk regionally in the period between 2030 and 2050 by a total of:

- 17,999 internal flood risk properties
- 216,074 external flood risk properties

This approach deals with the impact of climate change, growth and urban creep.

The following table summarises the level of risk within the Wear L2 SPA against the flooding and pollution planning objectives.

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<sup>1</sup> <https://nic.org.uk/studies-reports/reducing-the-risks-of-surface-water-flooding/surface-water-flooding-final-report/>

Planning Objective	Measure	Count				
		2020	2025	2030	2045	2060
PO1 – Internal Flood Risk	Count of properties at risk of flooding internally during a 1 in 20 year return period rainfall event	2,673	2,691	2,756	4,065	4,380
PO2 – External Flood Risk	Count of properties at risk of flooding externally during a 1 in 20 year return period rainfall event	38,699	38,890	39,007	48,909	51,278
PO3 – 1 in 50 Year Population at Risk	Population at risk of flooding during a 1 in 50 year return period rainfall event	58,575	59,081	59,747	76,302	80,046
PO6 – Pollution	Count of manholes near watercourses at risk of flooding during a 1 in 5 year return period rainfall event	458	463	469	593	614

## PLANNING OBJECTIVE ASSESSMENT

### Planning Objective Risk Scoring

The DWMP planning objectives have been assessed in line with the common scoring approach followed by all water companies.

Risk scores have been calculated at drainage area level, following the approach outlined below. Further detail on how the scores have been calculated for each of the planning objectives is within the Problem Characterisation methodology.

Risk Score	Description
0	<b>Low Risk</b> – Levels of planning objective risk within the drainage area are in the bottom quartile and/or there are no assets identified as higher priority requiring interventions throughout the planning periods.
1	<b>Medium Risk</b> – Levels of planning objective risk within the drainage area are in the middle two quartiles and/or there are assets identified as lower priority requiring interventions throughout the planning periods.
2	<b>High Risk</b> – Levels of planning objective risk within the drainage area are in the top quartile and/or there are assets identified as higher priority requiring interventions throughout the planning periods.

Drainage Area		PO1 – Internal Flood Risk			PO2 – External Flood Risk			PO3 – 1 in 50 Year Population at Risk			PO4 – Bathing Water			PO5 – River Water			PO6 - Pollution			PO8 – WwTW DWF Compliance		
		2020	2045	2060	2020	2045	2060	2020	2045	2060	2020	2045	2060	2020	2045	2060	2020	2045	2060	2020	2045	2060
06-D01	Hamsterley	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06-D02	Fir Tree	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06-D04	Low Etherley	1	1	1	1	1	1	1	2	2	0	0	0	2	2	2	1	1	1	0	0	0
06-D05	Crook	2	2	2	1	2	2	1	1	1	0	0	0	2	2	2	1	1	1	0	0	0
06-D06	St Johns Chapel & Westgate	1	1	1	1	1	1	1	1	1	0	0	0	1	1	1	2	2	2	0	0	0
06-D07	Rookhope	2	2	2	2	2	2	2	2	2	0	0	0	1	1	1	2	2	2	0	0	0
06-D08	Eastgate	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06-D09	Stanhope & Crawleyside	2	2	2	2	2	2	2	2	2	0	0	0	2	2	2	1	1	1	0	0	0
06-D10	Frosterley	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06-D11	Hill End & Bridge End	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06-D12	White Kirkley	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06-D13	Wolsingham	2	2	2	1	2	2	2	2	2	0	0	0	1	1	1	1	2	2	0	0	0
06-D14	Thornley	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0	2	2	2	0	0	0
06-D15	Tow Law	1	2	2	2	2	2	2	2	2	0	0	0	2	2	2	0	0	0	0	0	0
06-D16	Brotherlee	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06-D17	Railway Terrace	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06-D18	Low Bishopley	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06-D19	Wear Valley Junction	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06-D20	Tunstall	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07-D01	Sacriston	1	2	2	1	2	2	1	2	2	0	0	0	0	0	0	0	0	0	0	0	0
07-D02	Nettlesworth	1	1	1	1	1	1	1	1	1	0	0	0	2	2	2	1	1	1	0	0	0
07-D03	Edmondsley	0	0	1	1	1	1	1	1	1	0	0	0	2	2	2	1	1	1	0	0	0
07-D04	Chester le Street	1	1	1	1	1	1	1	1	1	0	0	0	2	2	2	1	1	1	0	0	0

Drainage Area		PO1 – Internal Flood Risk			PO2 – External Flood Risk			PO3 – 1 in 50 Year Population at Risk			PO4 – Bathing Water			PO5 – River Water			PO6 - Pollution			PO8 – WwTW DWF Compliance		
		2020	2045	2060	2020	2045	2060	2020	2045	2060	2020	2045	2060	2020	2045	2060	2020	2045	2060	2020	2045	2060
07-D05	The Moorings	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07-D06	Waldrige Drift	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07-D07	Great Lumley	1	2	2	1	1	1	1	2	2	0	0	0	2	2	2	0	0	0	0	0	0
07-D08	Leadgate North	2	2	2	1	2	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
07-D09	Leadgate South	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
07-D10	Delves	1	2	2	2	2	2	1	1	1	0	0	0	2	2	2	0	0	0	0	0	0
07-D11	Iveston West	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07-D12	Iveston East	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07-D13	Crookhall	1	1	1	1	2	2	1	2	2	0	0	0	0	0	0	0	0	0	0	0	0
07-D14	South Stanley & Craghead	1	1	2	1	1	1	1	1	1	0	0	0	2	2	2	1	1	1	0	0	0
07-D15	Lanchester & Bumhope	1	1	1	1	1	1	1	1	1	0	0	0	2	2	2	1	1	1	0	0	0
07-D16	Langley Park & Witton Gilbert	2	2	2	1	2	2	1	1	1	0	0	0	2	2	2	0	0	0	0	0	0
07-D17	Satley	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07-D18	Holmside	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07-D19	Peartree Cottages	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07-D20	East Hedleyhope	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07-D21	Hedleyhope Colliery	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07-D22	Hollinside Hall	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07-D23	Hurbuck Cottages	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07-D24	Cornsay	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07-D25	Esh Winning	1	2	2	1	2	2	1	2	2	0	0	0	1	1	1	1	2	2	0	0	0
07-D26	Bearpark	1	2	2	1	2	2	1	2	2	0	0	0	1	1	1	0	0	0	0	2	2
07-D27	Ushaw Moor & Brandon	1	1	1	0	1	1	0	1	1	0	0	0	2	2	2	0	1	1	0	2	2
07-D28	Lower Brancepeth	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0



Drainage Area		PO1 – Internal Flood Risk			PO2 – External Flood Risk			PO3 – 1 in 50 Year Population at Risk			PO4 – Bathing Water			PO5 – River Water			PO6 - Pollution			PO8 – WwTW DWF Compliance		
		2020	2045	2060	2020	2045	2060	2020	2045	2060	2020	2045	2060	2020	2045	2060	2020	2045	2060	2020	2045	2060
07-D29	Brancepeth	0	0	0	2	2	2	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0
07-D30	Sunderland Bridge	0	1	1	0	0	0	1	2	2	0	0	0	2	2	2	0	0	0	0	0	0
07-D31	Bowburn	0	1	1	0	0	1	0	1	1	0	0	0	1	1	1	0	0	0	0	2	2
07-D32	Cassop	0	0	0	0	0	0	0	0	0	0	0	0	2	2	2	0	0	0	0	0	0
07-D33	Kelloe	1	1	1	1	1	2	1	1	2	0	0	0	1	1	1	1	1	1	0	0	0
07-D34	West Rainton	0	0	0	0	0	0	0	0	0	0	0	0	2	2	2	0	1	1	0	0	0
07-D35	Carrville & Belmont & Shincliffe	0	1	1	1	1	1	1	1	1	0	0	0	2	2	2	0	0	0	0	0	0
07-D36	Pittington	0	0	0	0	0	1	1	1	1	0	0	0	1	1	1	1	1	1	0	0	0
07-D37	Sherburn	1	1	1	1	1	1	1	1	1	0	0	0	2	2	2	1	1	1	0	0	0
07-D38	Sherburn Hospital	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07-D39	Pity Me	1	1	2	1	1	1	1	2	2	0	0	0	2	2	2	0	0	0	0	2	2
07-D40	Newton Grange	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07-D41	Durham City & Newton Hall	1	1	1	1	1	1	1	1	1	0	0	0	2	2	2	0	0	0	0	0	0
07-D42	Elvet Hill	0	0	0	0	0	0	0	0	0	0	0	0	2	2	2	0	0	0	0	0	0
07-D43	Tursdale Aged Miners Homes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07-D44	Spennymoor	0	1	1	1	1	1	0	1	1	0	0	0	2	2	2	0	1	1	0	0	0
07-D45	Cornforth	0	0	1	1	2	2	1	2	2	0	0	0	0	0	0	0	0	0	0	0	0
07-D46	East Howle	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07-D47	Byers Green	1	2	2	2	2	2	2	2	2	0	0	0	2	2	2	0	0	0	0	0	2
07-D48	Old Park Terrace	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07-D49	Metal Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07-D51	Cockfield & Esperley	2	2	2	1	1	1	1	1	1	0	0	0	1	1	1	0	0	0	0	0	0
07-D52	Butterknowle	1	1	1	2	2	2	2	2	2	0	0	0	1	1	1	1	2	2	0	0	0
07-D53	High Lands	1	1	1	2	2	2	2	2	2	0	0	0	0	0	0	2	2	2	0	0	0

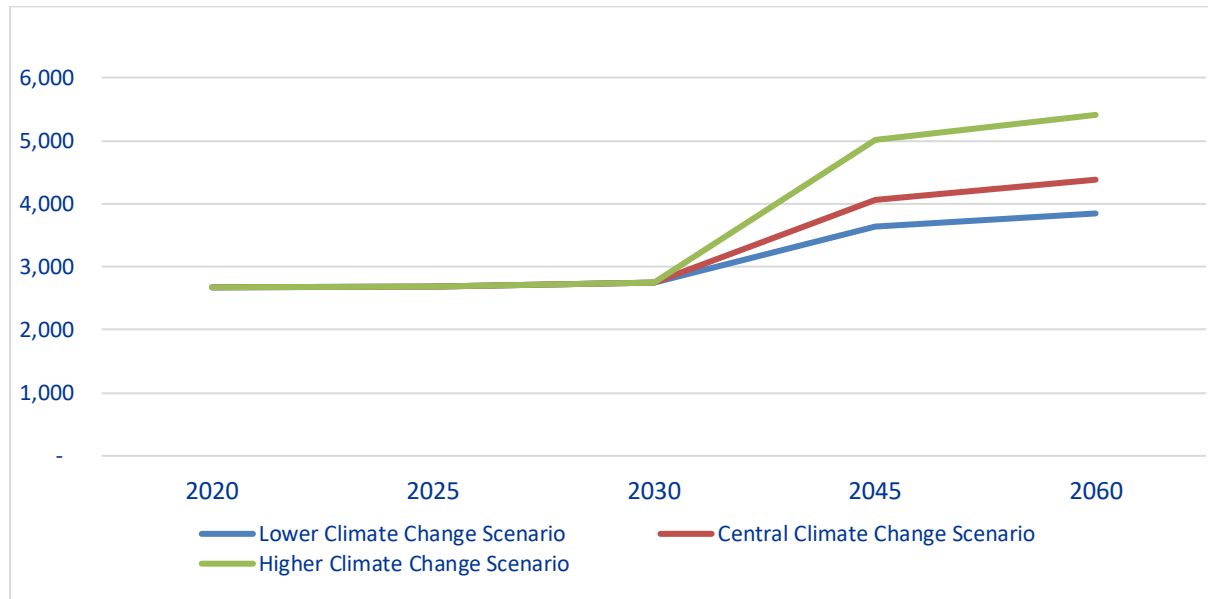
Drainage Area		PO1 – Internal Flood Risk			PO2 – External Flood Risk			PO3 – 1 in 50 Year Population at Risk			PO4 – Bathing Water			PO5 – River Water			PO6 - Pollution			PO8 – WwTW DWF Compliance		
		2020	2045	2060	2020	2045	2060	2020	2045	2060	2020	2045	2060	2020	2045	2060	2020	2045	2060	2020	2045	2060
07-D54	North Evenwood & Ramshaw	1	2	2	2	2	2	2	2	2	0	0	0	1	1	1	1	2	2	0	0	0
07-D55	South Evenwood	2	2	2	1	2	2	2	2	2	0	0	0	1	1	1	1	1	1	0	0	0
07-D56	Bildershaw	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07-D57	Bishop Auckland	1	2	2	1	1	1	1	1	1	0	0	0	2	2	2	1	1	1	0	0	0
07-D58	Newfield	0	0	0	0	0	0	0	0	0	0	0	0	2	2	2	0	0	0	0	0	0
07-D59	Willington & Hunwick	1	1	1	1	2	2	1	2	2	0	0	0	2	2	2	1	1	1	0	0	2
07-D60	Herrington	1	1	1	1	1	1	1	1	1	0	0	0	2	2	2	0	0	0	0	0	0
07-D61	Houghton/Hetton	1	1	1	1	1	1	1	1	1	0	0	0	2	2	2	1	1	1	0	0	0
07-D62	Cockfield Station	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07-D63	Deerness View	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07-D64	Bearpark Hall	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07-D65	Heugh Hall	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07-D66	Malton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07-D67	Hedley Hill Colliery	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07-D68	Greenfields	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07-D69	Windmill	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07-D70	Bowes Hill	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08-D03	Easington	1	1	1	1	1	1	1	1	1	0	0	0	2	2	2	0	1	1	0	0	0
08-D05	Peterlee	0	1	1	0	1	1	0	1	1	0	0	0	2	2	2	1	1	1	0	0	0
11-D07	Sheraton	2	2	2	2	2	2	2	2	2	0	0	0	0	0	0	2	2	2	0	0	0

## Climate Change Sensitivity

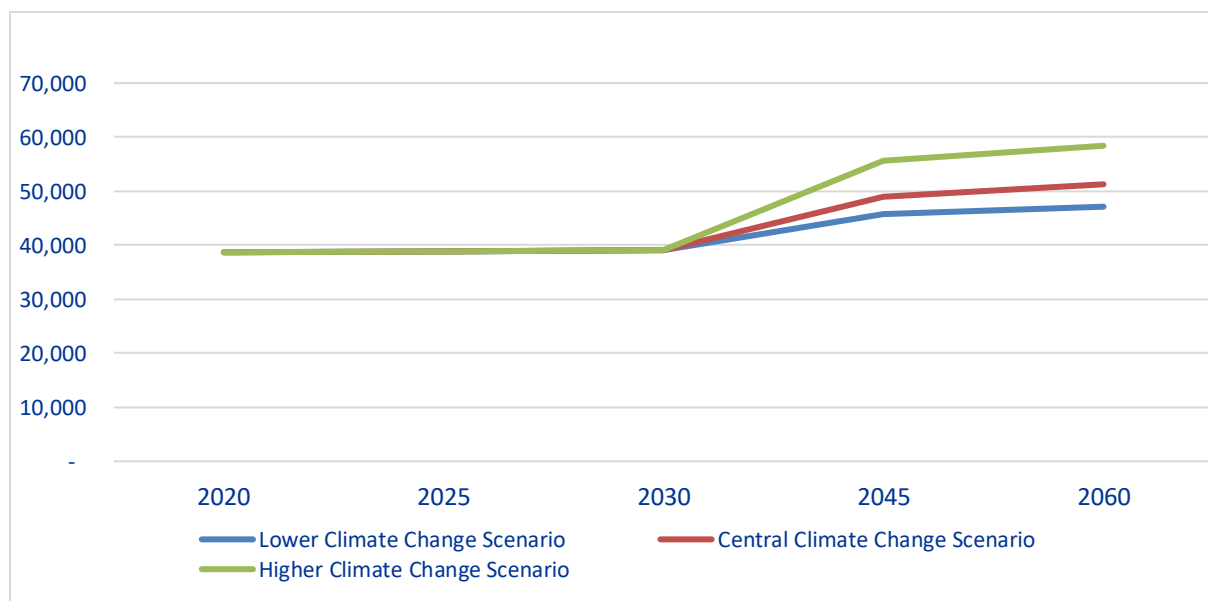
As outlined in the BRAVA methodology, two additional climate scenarios were analysed to evaluate the impact on the planning objectives of Lower Emissions and Higher Emissions climate scenarios.

The following graphics outline the impact on the planning objective risk numbers for the flooding and pollution planning objectives within the Wear Level 2 SPA in the different climate scenarios that have been modelled.

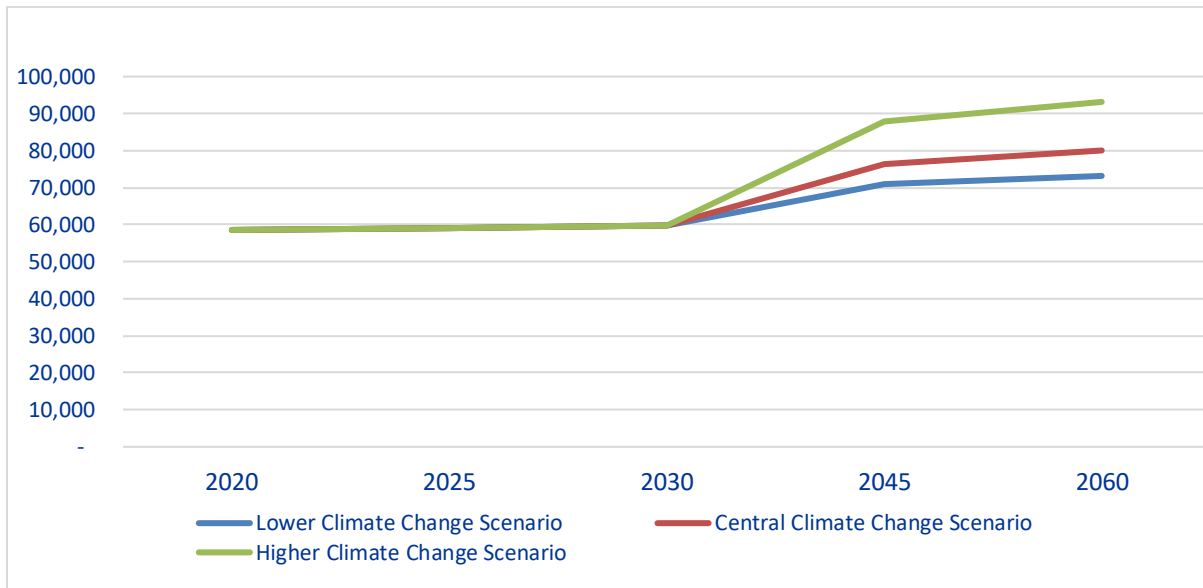
### PO1 – Internal Flood Risk – Wear L2 SPA



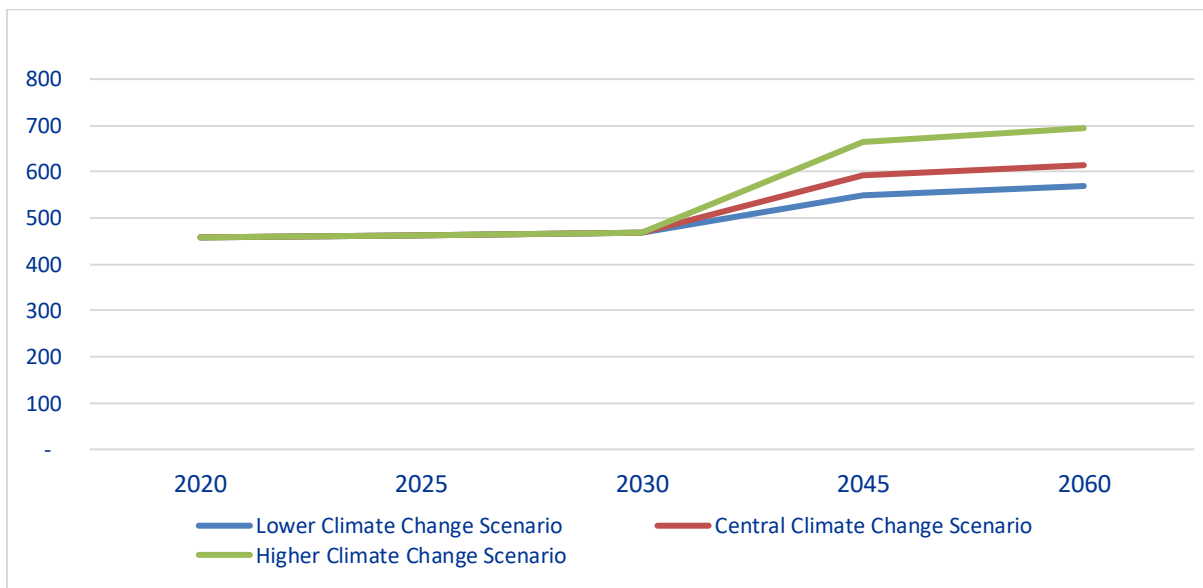
### PO2 – External Flood Risk – Wear L2 SPA



### PO3 – 1 in 50 Year Population at Risk – Wear L2 SPA



### PO6 – Pollution – Wear L2 SPA



Our business plan is based on adaptive planning principles. We begin to use this more and more to think about an uncertain future. This long-term strategy is being developed alongside the long-term planning frameworks – in particular, the well-established Water Resources Management Plan process and the new Drainage and Wastewater Management Plan process.

## OPTION DEVELOPMENT

### Our Plan for the Wear L2 SPA

#### What Are We Doing?

The DWMP has been prepared taking the Best Value options within catchments and also including sustainable options that were not identified as Best Value but did reduce the volume of below-ground storage required within a catchment.

A summary of the interventions that have been included within the DWMP within the Wear L2 SPA are included within the following tables.

#### Storm Overflow Discharge Reduction Plan

Intervention Type	2025 to 2030	2030 to 2035	2035 to 2040	2040 to 2045	2045 to 2050
Storm Overflows addressed by Spill Frequency Reduction Schemes	67	31	38	58	63
Storm Overflows requiring Screening Provision Schemes	18	16	39	45	71

#### Wastewater Treatment Works Compliance

Intervention Type	2025 to 2030	2030 to 2035	2035 to 2040	2040 to 2045	2045 to 2050	2050 to 2055	2055 to 2060
WwTW DWF Compliance – Investigations / Schemes	3	-	-	-	-	-	1
WwTW Quality Compliance – Investigations	3 - (P) 5 (BOD) 8 (Amm)	- (P) 1 (BOD) 4 (Amm)	- (P) - (BOD) 1 (Amm)	- (P) 1 (BOD) 1 (Amm)	- (P) - (BOD) - (Amm)	- (P) - (BOD) - (Amm)	1 (P) - (BOD) - (Amm)
WwTW Quality Compliance – Schemes	9 (P) 4 (BOD) 4 (Amm)	- (P) 1 (BOD) 4 (Amm)	- (P) 1 (BOD) 4 (Amm)	- (P) - (BOD) 1 (Amm)	- (P) 1 (BOD) 1 (Amm)	- (P) - (BOD) - (Amm)	- (P) - (BOD) - (Amm)

#### Long-Term Delivery Strategy – Flooding and Pollution

The Government's 25 Year Environment Plan (25YEP) requires us to invest to:

- Reduce nitrogen and phosphorus pollution, through catchment and nature-based solutions where possible.
- Improve drainage and environmental water quality, and reduce surface water flooding risk, through our Drainage and Wastewater Management Plan (DWMP).



Our long term delivery strategy sets out our ambition to continue to reduce sewer flooding over the next 25 years. Our plan sets out how we will match the 25YEP by reducing internal and external sewer flooding by 60% by 2050.

### How Much Does Our Plan Cost?

The following table summarises the costs that are included within the DWMP for the delivery of the identified interventions. The costs shown in the table are £million.

Intervention Type	2025 to 2030	2030 to 2035	2035 to 2040	2040 to 2045	2045 to 2050	2050 to 2055	2055 to 2060
Storm Overflow Spill Frequency Reduction Schemes	198.69	80.45	107.40	105.69	71.52	-	-
Screening Provision Schemes	8.15	9.63	11.33	11.52	16.91	-	-

### Long-Term Delivery Strategy for Flooding

It is anticipated that we will achieve our flood risk reduction targets in a number of ways. For example,

- Working in partnership with others in the Northumbria Integrated Drainage Partnership
- Working with customers and communities for the widescale disconnection of roof drainage from the combined sewer network
- Implementing source control via sustainable drainage measures (SuDS) including wetland creation
- Implementing SMART networks throughout the region
- Disconnecting highway runoff from the combined sewer network
- Working with others to implement permeable pathing and roadways schemes.

We have estimated that the cost of achieving our ambitious targets will be £1 billion between 2030 and 2050. We will seek customer support for investment to achieve these targets.

The following table summarises the level of risk within the Wear L2 SPA for the flooding planning objectives following the implementation of the Long-Term Delivery Strategy for flooding.

Planning Objective	Measure	Count				
		2020	2025	2030	2045	2060
PO1 – Internal Flood Risk	Count of properties at risk of flooding internally during a 1 in 20 year return period rainfall event	2,673	2,691	2,756	1,641	1,141
PO2 – External Flood Risk	Count of properties at risk of flooding externally during a 1 in 20 year return period rainfall event	38,699	38,890	39,007	17,255	12,147

### Planning Objective Risk Scoring

The planning objective risk scores have been evaluated with the proposed DWMP interventions delivered.

Drainage Area		PO1 – Internal Flood Risk			PO2 – External Flood Risk			PO3 – 1 in 50 Year Population at Risk			PO4 – Bathing Water			PO5 – River Water			PO6 - Pollution			PO8 – WwTW DWF Compliance		
		2020	2045	2060	2020	2045	2060	2020	2045	2060	2020	2045	2060	2020	2045	2060	2020	2045	2060	2020	2045	2060
06-D01	Hamsterley	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06-D02	Fir Tree	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06-D05	Crook	2	0	0	1	0	0	1	0	0	0	0	0	2	0	0	1	1	1	0	0	0
06-D08	Eastgate	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06-D10	Frosterley	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06-D11	Hill End & Bridge End	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06-D12	White Kirkley	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06-D16	Brotherlee	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06-D17	Railway Terrace	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06-D18	Low Bishopley	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06-D19	Wear Valley Junction	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06-D20	Tunstall	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07-D05	The Moorings	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07-D06	Waldridge Drift	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07-D08	Leadgate North	2	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07-D11	Iveston West	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07-D12	Iveston East	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07-D14	South Stanley & Craghead	1	0	0	1	0	0	1	0	0	0	0	0	2	1	0	1	1	1	0	0	0
07-D16	Langley Park & Witton Gilbert	2	0	0	1	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0
07-D17	Satley	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Drainage Area		PO1 – Internal Flood Risk			PO2 – External Flood Risk			PO3 – 1 in 50 Year Population at Risk			PO4 – Bathing Water			PO5 – River Water			PO6 - Pollution			PO8 – WwTW DWF Compliance		
		2020	2045	2060	2020	2045	2060	2020	2045	2060	2020	2045	2060	2020	2045	2060	2020	2045	2060	2020	2045	2060
07-D18	Holmside	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07-D19	Peartree Cottages	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07-D20	East Hedleyhope	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07-D21	Hedleyhope Colliery	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07-D22	Hollinside Hall	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07-D23	Hurbuck Cottages	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07-D24	Cornsay	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07-D27	Ushaw Moor & Brandon	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	1	1	0	0	0
07-D28	Lower Brancepeth	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07-D31	Bowburn	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
07-D32	Cassop	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0
07-D34	West Rainton	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	1	1	0	0	0
07-D38	Sherburn Hospital	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07-D40	Newton Grange	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07-D42	Elvet Hill	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0
07-D43	Tursdale Aged Miners Homes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07-D44	Spennymoor	0	0	0	1	0	0	0	0	0	0	0	0	2	0	0	0	1	1	0	0	0
07-D46	East Howle	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07-D48	Old Park Terrace	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07-D49	Metal Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07-D51	Cockfield & Esperley	2	0	0	1	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0

Drainage Area		PO1 – Internal Flood Risk			PO2 – External Flood Risk			PO3 – 1 in 50 Year Population at Risk			PO4 – Bathing Water			PO5 – River Water			PO6 - Pollution			PO8 – WwTW DWF Compliance		
		2020	2045	2060	2020	2045	2060	2020	2045	2060	2020	2045	2060	2020	2045	2060	2020	2045	2060	2020	2045	2060
07-D56	Bildershaw	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07-D58	Newfield	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0
07-D62	Cockfield Station	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07-D63	Deerness View	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07-D64	Bearpark Hall	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07-D65	Heugh Hall	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07-D66	Malton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07-D67	Hedley Hill Colliery	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07-D68	Greenfields	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07-D69	Windmill	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07-D70	Bowes Hill	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06-D07	Rookhope	2	0	0	2	0	0	2	0	1	0	0	0	1	1	0	2	2	2	0	0	0
06-D04	Low Etherley	1	0	0	1	0	0	1	1	1	0	0	0	2	0	0	1	1	1	0	0	0
06-D06	St Johns Chapel & Westgate	1	0	0	1	0	0	1	1	1	0	0	0	1	0	0	2	2	2	0	0	0
06-D09	Stanhope & Crawleyside	2	0	0	2	0	0	2	1	1	0	0	0	2	0	0	1	1	1	0	0	0
07-D01	Sacriston	1	0	0	1	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
07-D02	Nettlesworth	1	0	0	1	0	0	1	1	1	0	0	0	2	0	0	1	1	1	0	0	0
07-D04	Chester le Street	1	0	0	1	0	0	1	1	1	0	0	0	2	0	0	1	1	1	0	0	0
07-D07	Great Lumley	1	0	0	1	0	0	1	1	1	0	0	0	2	0	0	0	0	0	0	0	0
07-D09	Leadgate South	1	0	0	1	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
07-D10	Delves	1	0	0	2	0	0	1	1	1	0	0	0	2	0	0	0	0	0	0	0	0
07-D15	Lanchester & Bumhope	1	0	0	1	0	0	1	1	1	0	0	0	2	1	0	1	1	1	0	0	0

Drainage Area		PO1 – Internal Flood Risk			PO2 – External Flood Risk			PO3 – 1 in 50 Year Population at Risk			PO4 – Bathing Water			PO5 – River Water			PO6 - Pollution			PO8 – WwTW DWF Compliance		
		2020	2045	2060	2020	2045	2060	2020	2045	2060	2020	2045	2060	2020	2045	2060	2020	2045	2060	2020	2045	2060
07-D25	Esh Winning	1	0	0	1	0	0	1	1	1	0	0	0	1	0	0	1	2	2	0	0	0
07-D30	Sunderland Bridge	0	0	0	0	0	0	1	1	1	0	0	0	2	0	0	0	0	0	0	0	0
07-D35	Carrville & Belmont & Shincliffe	0	0	0	1	0	0	1	1	1	0	0	0	2	0	0	0	0	0	0	0	0
07-D37	Sherburn	1	0	0	1	0	0	1	1	1	0	0	0	2	1	0	1	1	1	0	0	0
07-D41	Durham City & Newton Hall	1	0	0	1	0	0	1	1	1	0	0	0	2	0	0	0	0	0	0	0	0
07-D54	North Evenwood & Ramshaw	1	0	0	2	0	0	2	1	1	0	0	0	1	0	0	1	2	2	0	0	0
07-D55	South Evenwood	2	0	0	1	0	0	2	1	1	0	0	0	1	1	0	1	1	1	0	0	0
07-D57	Bishop Auckland	1	0	0	1	0	0	1	1	1	0	0	0	2	1	0	1	1	1	0	0	0
07-D59	Willington & Hunwick	1	0	0	1	0	0	1	1	1	0	0	0	2	0	0	1	1	1	0	0	0
07-D60	Herrington	1	0	0	1	0	0	1	1	1	0	0	0	2	0	0	0	0	0	0	0	0
07-D61	Houghton/Hetton	1	0	0	1	0	0	1	1	1	0	0	0	2	1	0	1	1	1	0	0	0
08-D03	Easington	1	0	0	1	0	0	1	1	1	0	0	0	2	0	0	0	1	1	0	0	0
08-D05	Peterlee	0	0	0	0	0	0	0	1	1	0	0	0	2	0	0	1	1	1	0	0	0
06-D13	Wolsingham	2	0	1	1	0	0	2	1	1	0	0	0	1	1	0	1	2	2	0	0	0
07-D26	Bearpark	1	0	1	1	0	0	1	1	1	0	0	0	1	0	0	0	0	0	0	0	0
07-D39	Pity Me	1	0	1	1	0	0	1	1	1	0	0	0	2	0	0	0	0	0	0	0	0
07-D47	Byers Green	1	0	1	2	0	0	2	1	1	0	0	0	2	0	0	0	0	0	0	0	0
07-D36	Pittington	0	0	0	0	0	1	1	1	1	0	0	0	1	0	0	1	1	1	0	0	0
06-D14	Thornley	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0	2	2	2	0	0	0
07-D13	Crookhall	1	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
07-D33	Kelloe	1	0	0	1	1	1	1	1	1	0	0	0	1	1	0	1	1	1	0	0	0



Drainage Area		PO1 – Internal Flood Risk			PO2 – External Flood Risk			PO3 – 1 in 50 Year Population at Risk			PO4 – Bathing Water			PO5 – River Water			PO6 - Pollution			PO8 – WwTW DWF Compliance		
		2020	2045	2060	2020	2045	2060	2020	2045	2060	2020	2045	2060	2020	2045	2060	2020	2045	2060	2020	2045	2060
07-D52	Butterknowle	1	0	0	2	1	1	2	1	1	0	0	0	1	0	0	1	2	2	0	0	0
07-D03	Edmondsley	0	0	1	1	1	1	1	1	1	0	0	0	2	0	0	1	1	1	0	0	0
11-D07	Sheraton	2	0	0	2	1	2	2	1	1	0	0	0	0	0	0	2	2	2	0	0	0
07-D29	Brancepeth	0	0	0	2	2	2	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0
06-D15	Tow Law	1	0	1	2	0	1	2	1	2	0	0	0	2	0	0	0	0	0	0	0	0
07-D53	High Lands	1	0	0	2	2	2	2	2	2	0	0	0	0	0	0	2	2	2	0	0	0
07-D45	Cornforth	0	0	1	1	2	2	1	2	2	0	0	0	0	0	0	0	0	0	0	0	0

## CONCLUDING COMMENTS

Our DWMP forms part of our long-term delivery strategy. As we go about this, we will need to review our progress and adapt our future plans to take into account changing circumstances. These include how customer views about priorities and affordability evolve; new technologies that emerge; how supply chain capacity develops; changes in weather patterns; and customer behaviour changes.

Setting a long-term delivery strategy allows us to seek early certainty on the investment we do not expect to change, while acknowledging these factors could mean choosing different pathways in future. We will consider those choices as and when we update our DWMP and at subsequent price reviews, which take place every five years. At each point we update our DWMP, we will look further into the future to maintain a 40-year outlook on these issues.

Our PR24 business plan, covering 2025-30, will include projects to drive better, more efficient, and nature-based solutions to tackling drainage and storm overflows in the future.

## CONTACTING US

To view our DWMP, please go to our website at: [www.nwl.co.uk/dwmp](http://www.nwl.co.uk/dwmp).

To contact us:

Go to the Contact Us page at: [Contact us \(nwl.co.uk\)](http://www.nwl.co.uk/contact-us)

Or you can call our Head Office switchboard on 0345 604 7468.

Our phone lines are open from 8:00am to 5:00pm, Monday to Friday.

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