

United Utilities Water

Drainage and Wastewater Management Plan 2023

Glossary

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Glossary

Acronym	Full Name	Definition
AACE	American Association of Cost Engineering	An organisation that assists with the decision making in asset management
AI	Artificial Intelligence	Artificial intelligence is the theory and development of computer systems to perform tasks often undertaken requiring human intelligence
AMP	Asset Management Plan	A tactical plan for organising the infrastructure and other assets to deliver an agreed standard of service
ASP	Activated Sludge Processes	The activated sludge process is a wastewater treatment process which uses aeration and biological floc to treat sewage and waste water.
BAH	Baseline Asset Health	A minimum or starting point used for comparisons in relation to the health of an asset.
BAS	Board Assurance Statement	The Board Assurance Statement is a document which confirms that the Board of directors believe that the proposals submitted are of high quality, meet the requirements and the assurance expectations.
BGS	British Geological Survey	The British Geological Survey is a geological survey and global geoscience organisation which provide geoscientific data, information and knowledge.
BOD	Biochemical Oxygen Demand	The amount of oxygen needed for the microbial metabolism of organic compounds in water.
BoQ	Bill of Quantities	A document used in tendering for construction, itemized list.
BRAVA	Baseline Risk and Vulnerability Assessment	Stage within the process to understand baseline and future performance to understand where is at risk in the future and when intervention might be needed
BW	Bathing Waters	EU Bathing Waters Directive introduced in 1976 are coastal or inland water sites that are popular for bathers.
CaBA	Catchment Based Approach Catchment Plan	The Catchment Based Approach (CaBA) is an inclusive, civil society-led initiative that works in partnership with Government, Local Authorities, Water Companies, businesses and more, to maximise the natural value of the environment
CACI	Consolidated Analysis Centers Inc	American multinational professional services and information technology company.
CAF	Capacity Framework Assessment	This assessment provides an indication of sewer capacity and overflow performance and shows an index of risk.
Capex	Capital Expenditure	The money used to buy, maintain or improve assets.
CaST	Catchment Systems Thinking	The approach to managing catchments in a holistic, integrated manner.

Acronym	Full Name	Definition
CastCo	Catchment Systems Thinking Cooperative	CaSTCo is the Catchment systems thinking cooperative. This is a national project funded through the Ofwat innovation fund that the Rivers Trust are leading and we are the lead water company for. It is delivering trials around the region on how we could combine technology and citizen science to deliver better catchment monitoring and improve data. This was originally called the Catchment Monitoring Cooperative but when it went to Ofwat it was rebranded on the request of some of the other water companies
CBA	Cost Benefit Assessment	A systematic approach to estimating the strengths and weaknesses of alternatives.
CCC	Cumbria County Council	The county council for the non-metropolitan county of Cumbria in the North West of England
CCG	Customer Challenge Group	Established group which is made up of independent representatives from different sectors, backgrounds and areas of expertise. The group aids United Utilities in reflecting on what type of consumer representation is needed.
CCPP	Centrifugally Cast Concrete Pipe	Used to successfully restore severely deteriorated large diameter pipelines
CDD	Cistern Displacement Devices	An object used to take up room with the design in mind to reduce the size of the flush and conserve water.
CEH	Centre for Ecology and Hydrology	Independent research institute to provide data and insights into the environment
CEO	Chief Executive Officer	The person responsible and accountable for a company's business decisions.
CIP	Chemical Investigations Programme	Series of investigations into the occurrence, sources and removal of trace substances from the wastewater works.
CNB	Catchment Nutrient Balancing	The use of alternative methods to reduce nutrients, such as land use changes.
COD	Chemical Oxygen Demand	The amount of water to consume oxygen during the decomposition of organic matter within the water
CORINE	COoRdinate INformation on the Environment	An inventory of European land cover split into 44 different land cover classes.
CY	Calendar Year	The period of 365 days (or 366 days in a leap year) beginning on January 1st and ending on December 31st
DNM	Dynamic Network management	A new innovative approach using real-time data, AI and machine learning to process data to help identify issues such as blockages and the rise of water in sewer networks, quickly, so proactive action can be taken before they impact customers or the environment
DNO	District Network Operator	Responsible for the distribution of electricity from the national transmission grid to your home or business.
DO	Dissolved Oxygen	A measure of how much oxygen is dissolved in the water

Acronym	Full Name	Definition
DS	Downstream	The direction in which a stream or river flows
DWF	Dry Weather Flow	The average daily flow to a wastewater treatment works.
DWMP SG	Drainage and Wastewater Management Plan Steering Group	A focused forum in which project performance and technical content is reviewed in a greater level of detail. This group provides a forum for the Executive sponsor to govern the content of delivery and shape the development of the project as a whole.
DWMP	Drainage and Wastewater Management Plan (2023, 2028)	25 year long term environmental plan addressing future pressures such as increased population growth and climate change.
DWMP23	Drainage and Wastewater Management Plan 2023	25 year long term environmental plan addressing future pressures such as increased population growth and climate change published in 2023.
DWMP28	Drainage and Wastewater Management Plan 2028	25 year long term environmental plan addressing future pressures such as increased population growth and climate change published in 2028
DWPP	Diffuse Water Pollution Plan	Tools to help reduce diffuse pollution at protected sites.
EDM	Event Duration Monitoring	Measures the frequency and duration of spills to the environment from storm overflows.
EPA	Environmental Performance Assessment	A way to quantify, understand and track the environmental related aspects of a system.
ERA	Environmental Regulatory Advisors	Ensure that the projects comply with environmental regulations and targets.
ESCG	Your Voice Environmental and Social Capital Sub-Group	This is a group of independent representatives from different sectors. This sub-group focuses on environmental issues. This is a derivative from the CCG.
ETM	Enhanced Targeted Maintenance	Pro-active and targeted maintenance programmes (include inspection - high consequence sewers etc. cyclic CCTV programme and regular structural assessments of point assets)
FCERM	National Flood and Coastal Erosion Risk Management	A strategy used to develop resilience to flooding and coastal change covering short, medium and long term.
FE	Final Effluent	Wastewater which is exiting or has exited the last treatment process or operation.
FOC	Flooding Other Causes	Flooding typically caused by sewer misuse such as flushing wipes down the toilet and emptying fats, oils and grease down the sink.
FOG	Fats, Oils and Grease	Fats, oils and grease can cause blockages and sewer flooding in homes and gardens. Other causes include wet wipes, cotton wool, nappies and cotton buds.
FRMP	Flood Risk Management Plan	Sets out how organisations, stakeholders and communities will work together to manage flood risk in England.

Acronym	Full Name	Definition
FWMA	Flood and Water Management Act	Requires flood and coastal erosion risk management authorities to aim to contribute towards the achievement of sustainable development.
FY	Financial Year	A 12 month accounting period used for financial and tax reporting purposes.
GDPR	General Data Protection Regulation	Controls how personal information is used by organisations, businesses or the government.
GMCA	Greater Manchester Combined Authority	The Greater Manchester Combined Authority (GMCA) is a strategic partnership consisting of the ten Greater Manchester Local Authorities
GSP	Geospatial Platform	Online interactive tool to communicate the DWMP data with customers and stakeholders
HA	Highways Agency	Highways England operates, maintains and improves England's motorways and major A roads.
HFRR	Hydraulic Flood Risk Resilience	The ability to cope and prepare for the pressures of water exceeding capacity.
HRA	Habitats Regulation Assessment	Assessment determines whether or not the plan could negatively impact any local plans on a recognised protected site beyond reasonable doubt.
ICE	Institution of Civil Engineers	Institution promotes and advances civil engineering around the globe.
JRP	JR Pridham	Data collection equipment provider
LLFA	Lead Local Flood Authority	Lead Local Flood Authorities (unitary authorities or county councils) are responsible for developing, maintaining and applying a strategy for local flood risk management in their areas and for maintaining a register of flood risk assets.
LPA	Local Planning Authority	Local government body that is empowered by law to exercise urban planning functions for a particular area.
MEPAS	Mersey Estuary Pollution Alleviation Scheme	Innovative secondary treatment works needed to continue to robustly protect the Mersey.
MLG	Major Landowner Group	A collection of landowners which own large areas of land managed by Natural England
NBS	Nature-Based Solutions	A range of activities which utilise natural processes to provide water-related ecosystem services and benefits.
NBS PoW	Nature-Based Solutions Programme of Work	Ongoing development of a programme of works to address the barriers to unlocking nature based solutions at scale that were identified in our published document on this. The plan is to develop an innovation fund bid similar to the CaSTCo work but it will also be bigger than this and work with things like the Environment Agency's innovative permitting team.
NE	Natural England	A non-departmental public body with the purpose to help conserve, enhance and manage the natural environment.

Acronym	Full Name	Definition
NEIRF	Natural Environment Investment Readiness Fund	This fund supports the government in its goal of the 25 year environment plan, green finance strategy and 10 point plan for a green industrial revolution.
NEP	National Environment Programme	Also referred to as the 'Water Industry National Environment Programme'. Programme of works defined by the Environment Agency that sets out the actions that companies will need to complete to meet their environment obligations.
NFM	Natural Flood Management	A way to reduce the risk of flooding and coastal erosion, natural processes can be used.
NGO's	Non-Governmental Organisations	An organisation that has been formed independently from the government
NIC	National Infrastructure Commissions	Responsible for providing expert advice to the UK government on infrastructure challenges.
NPV	Net Present Value	The difference between the present value of money inflows and outflows over a period of time.
NRW	Natural Resources Wales	Sponsored by the Welsh Government, Natural Resources Wales took over the management of natural resources Wales.
NWEBS	National Water Environment Benefits Survey	NWEBS provided values for recreation, amenity and non-use benefits from improving the water environment.
ODI	Outcome Delivery Incentives	Financial payments to water companies from customers for performing beyond the level of committed service.
OMS	Operations Management System	Processes and procedures aiding a company to effectively manage business practices.
ONS	Office of National Statistics	UK's largest independent producer of official statistics.
Opex	Operational Expenditure	Money spent on ongoing, day-to-day running of the business.
PC	Problem Characterisation	Key features of a problem
PCC	Per Capita Consumption	The sum of measured household consumption and unmeasured household consumption divided by the total household population.
PCs	Performance Commitments	Specified levels of service provided for a particular outcome
PCS	Principal Construction Supervisor	Person responsible for the management and safety of construction projects.
PE	Population Equivalent	Number expressing ratio of sum of pollution load in wastewater to the individual pollution load in household sewage produced by one person in the same time.
PFD	Process Flow Diagram	Illustrates the arrangement of equipment and accessories required to carry out a specific process.
PFF	Pass Forward Flow	Instantaneous upstream flow that a combined sewer overflow or pumping station can accept.
PIN	Periodic Indicative Notice	Notice to provide prospective contractors with the visibility of a contract that will be awarded at a point in the future.

Acronym	Full Name	Definition
PIONEER	Proactive Identification and Optimisation of Expenditure and Evaluation of Risk	Decision support tool
PLR	Property Level Resilience	Minimise damage should water get inside property.
PO	Planning Objective	Aid in defining responsibility and plan goals.
PoDFather	Proof of Delivery - Software system	A form of software system.
POS	Public Open Spaces	An open section of land to which there is public access.
PR19	Price Review 2019	Business plan for 2019
PR24	Price Review 2024	Business plan for 2024
RAG	Red/Amber/Green (status)	A ranking to allow for identification of priorities.
RBCS	Risk Based Catchment Screening	To ensure effort is focused in the right areas, an approach was needed to understand which of our wastewater catchments are the highest risk of experiencing issues in the future.
RBMP	River Basin Management Plan	Legally binding locally specific environmental objectives set for water regulation.
RCP8.5	Representative Concentration Pathway 8.5 - future emission scenarios	A method used for capturing the assumptions of the impacts of economic, social and future changes to the environment that will influence climate change.
REDUP	Rainfall Event Duration Uplift	A tool that is able to generate future time series rainfall.
RFCC	Regional Flood and Coastal Committee	A committee established by the Environment Agency under the Flood & Water Management Act 2010.
RMA	Risk Management Authority	Organisations with responsibilities under the Flood and Water Management Act (2010)
RNAG	Reasons for Not Achieving Good	Officers from the Environment Agency determine the main reasons as to why a water body is not achieving good or high status under the Water Framework Directive.
SAC	Special Area of Conservation	Land designated under the Directive 92/43/EEC on the Conservation of Natural Habitats and of Wild Fauna and Flora.
SAGIS	Source Apportionment Geographical Information System	ArcGIS based digital information management and visual platform which is used as an integrated system for modelling water quality in rivers and lakes.
SAS	Surplus Activated Sludge	The excess sludge which is removed from the wastewater treatment process to maintain a balance in the ratio of bacteria and energy source.
SCaMP	Sustainable Catchment Management Programme	Aims to apply an integrated approach to catchment management across all of the 56,385 hectares of land owned by United Utilities in the North West.
SDA	Sub-drainage area	Sub-catchments of wastewater treatment drainage areas
SEA	Strategic Environmental Assessment	A systematic process used to assess the environmental impact associated with the drainage and wastewater management plan.

Acronym	Full Name	Definition
SIMCAT	SIMulation of CATchments	A mathematical model which predicts water quality throughout a river catchment.
SIP	Site Improvement Plan	These plans provide high level overviews of the potential issues that are affecting the condition of a site.
SLA	Service Level Agreement	Part of a contract that establishes the exact services that will be provided and the required level or standard for those services.
SME	Subject Matter Experts	A person who is deemed a professional who is able to use their knowledge to help inform.
SMP	Shoreline Management Plan	A strategy that is used for the management of flood and erosion risk for certain stretches of coastline over short, medium and long term periods.
SOAF	Storm Overflow Assessment Framework	This framework demonstrates that any overflow reported to exceed spill frequency thresholds that are set out are to be investigated.
SOEP	Storm Overflow Evidence Project	This is an independent research project that looks at the options, costs and benefits associated with reducing the storm sewage discharges in England.
SPA	Strategic Planning Area	Aggregation of TPU units
SPG	Strategic Planning Group	A key form of engagement with stakeholders across the region. These groups operate at a local, catchment scale.
SPV	Special Purpose Vehicle	A vehicle with the purpose of undertaking specific business related activities.
SS	Suspended Solids	Small solid particles which remain in suspension in water.
SSG	Strategic Steering Group	The SSG is the core strategic decision making forum for U UW. It is composed of the U UW Executive Directors and chaired by the CEO.
SSSI	Sites of Special Scientific Interest	Areas of land and water that are considered best representatives of natural heritage.
SuDS	Sustainable Drainage Systems	An alternative method to directly channel surface water through sewers or nearby watercourses. They aid in managing flood risk and water quality whilst also providing amenity benefits and habitats for plants and animals.
SW	Surface Water	Water that collects on the surface of the ground.
SWMP	Surface Water Management Plan	Various risks to flooding are identified and preferred surface water management strategies are identified to aid in the mitigation of these risks.
tDS	tonnes Dry Solids	A unit of measurement for permit compliance purposes.
TFG	DWMP Options Development Task and Finish Group	The purpose of the DWMP Technical Review Group is to inform processes and challenging information presented in order to make decisions throughout the delivery of the DWMP. The group consists of technical experts that provide valuable scrutiny and knowledge and challenge to inform and shape the progression of the DWMP.

Acronym	Full Name	Definition
TKN	Total Kjeldahl Nitrogen	The sum of ammonia-nitrogen and organically bound nitrogen. Ammonia created from biological waste breakdown via heterotrophic organisms is taken into account through TKN.
Totex	Total Operational Expenditure	Totex is a combination of capital expenditure and operational expenditure. It is a long-term look at the operating life of assets.
TPU	Tactical Planning Unit	The basic TPU is wastewater treatment works drainage area and its catchments.
TRG	Technical Review Group	The DWMP TRG is a technical steering group composed of key subject matter experts from across UUW.
UIA	EU Urban Innovation Action	An initiative developed by the European Union to promote the use of sustainable urban development pilot projects.
UKCP09	United Kingdom Climate Projections 2009	A set of tools and data that provides a view on how the climate may alter in the future produced in 2009.
UKCP18	United Kingdom Climate Projections 2018	A set of tools and data that provides a view on how the climate may alter in the future produced in 2018.
UKWIR	UK Water Industry Research	Responsible for the facilitation and shaping of the water industry's research agenda.
US	Upstream	Against the water flow and towards the original source.
UUW	United Utilities Water	North West water and wastewater service company.
UUWTD	Urban Wastewater Treatment Directive	Directive that pushes for stricter legislation aimed at regulating water quality.
VSP	Very Small Programme	Capital schemes costing less than £50k
WaSC	Water and Sewage Company	Utility provider of safe water and wastewater services.
WEF	Water Environment Federation	A not-for-profit technical and educational organisation representing water quality professionals. This organisation provides water quality education, training and business opportunities.
WFD	Water Framework Directive	Focuses on ensuring good qualitative and quantitative health. It requires the reporting of river basin management plans every six years.
WINEP	Water Industry National Environment Programme	Programme of works defined by the Environment Agency that sets out the actions that companies will need to complete to meet their environment obligations.
WISER	Water Industry Strategic Environmental Requirements	Statutory and non-statutory expectations to be met by water companies.
WLC	Whole Life Cost	Total expense of owning an asset over its entire life from purchase to disposal.
WNTF	What Not to Flush	Also referred to as "Stop the Block", this is a

Acronym	Full Name	Definition
WRMP	Water Resources Management Plan (2019, 2024)	Statutory strategy set out to define how water companies strive to achieve a long-term, best value and sustainable plan. It ensures that water companies have an adequate supply of water to meet demand over the next 25 years (2020-2045) whilst ensuring the supply system is resilient to drought and other hazards published in 2019
WRMP19	Water Resources Management Plan 2019	Statutory strategy set out to define how water companies strive to achieve a long-term, best value and sustainable plan. It ensures that water companies have an adequate supply of water to meet demand over the next 25 years (2020-2045) whilst ensuring the supply system is resilient to drought and other hazards published in 2019.
WRMP24	Water Resources Management Plan 2024	Statutory strategy set out to define how water companies strive to achieve a long-term, best value and sustainable plan. It ensures that water companies have an adequate supply of water to meet demand over the next 25 years (2020-2045) whilst ensuring the supply system is resilient to drought and other hazards published in 2024.
WwTW	Wastewater Treatment Works	A facility in which the process of removing and eliminating contaminants from wastewater occurs to allow for clean discharge into nearby waterbodies.

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Water for the North West