

ATTACHMENT B.8 IMPROVEMENT PROGRAMME

Specified Improvement Programme Summary - Dublin City Council Functional Area:

A summary of the status of any improvements identified by under Condition 5.2 is included below.

Specified Improvement Programmes (under Schedule A and C of WWDL)	Licence Schedule	Licence Completion Date	Date Expired? (N/NA/Y)	Status of Works	Timeframe for Completing the Work	Comments
Upgrade waste water treatment plant and ancillary works in accordance with Condition 5.5	C.1	22 nd December 2015	Yes	Part-commenced	<p>The project comprises four key elements and underpinning these is a substantial programme of ancillary works:</p> <ul style="list-style-type: none"> • Provision of additional secondary treatment facility capacity with nutrient reduction (400,000 p.e.). • Upgrade of the 24 existing secondary treatment tanks to provide additional capacity and nutrient reduction, which is essential to protect the nutrient-sensitive Dublin Bay area. • Provision of a new phosphorous recovery process; and 	<p>The overall Upgrade Project works are expected to take until the end of 2025 to complete. The timeline for the production of effluent in line with the parameters set out in the UWWTD is now expected in Q4 2023, subject to the ongoing effects of Covid-19, supply chain challenges (Ukraine) as well as growth of loading in the catchment.</p> <p>It is important to note that this programmed 2023 date is the anticipated date that the plant can start producing an effluent in line with the parameters set out in the UWWTD and the actual confirmed UWWTD compliance determination will be up to 12 months from that date (on attaining 12 months compliance with the UWWTD ELVs).</p>

Specified Improvement Programmes (under Schedule A and C of WWDL)	Licence Schedule	Licence Completion Date	Date Expired? (N/NA/Y)	Status of Works	Timeframe for Completing the Work	Comments
					<ul style="list-style-type: none"> Expansion of the plant's sludge treatment facilities. <p>The 400,000 p.e. Capacity Upgrade Design Build (DB) contract is completed and in operation.</p> <p>An Bord Pleanála granted planning permission for the further upgrade of the plant was granted on 24th April 2019, consenting for the works required to facilitate the use of the AGS technology in the existing treatment tanks and to omit construction of the Long Sea Outfall Tunnel.</p> <p>Works on the first of four contracts to retrofit the existing secondary treatment tanks with Aerobic Granular Sludge (AGS) technology and completed on schedule in December 2021. The second contract and third contracts are well under way and construction is progressing to plan. These contracts</p>	

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					<p>facilitate achieving capacity of 2.1 million p.e.</p> <p>The fourth contract is scheduled to commence in Q1 2024. All 4 contracts will bring the plant capacity to 2.4 million p.e (Peak Daily Design 4,350,000 p.e) in 2025.</p> <p>The phosphorus recovery facility works contract commenced in Q1 2021, with works progressing to plan and commissioning now underway.</p> <p>Upgrades to sludge treatment facilities have been progressing incrementally since 2020 and will continue into 2024.</p> <p>An interim stage in the project is to bring the plant into capability to produce a complaint effluent, based on a load of 2.1 million p.e, scheduled for the end of 2023.</p>	

Specified Improvement Programmes (under Schedule A and C of WWDL)	Licence Schedule	Licence Completion Date	Date Expired? (N/NA/Y)	Status of Works	Timeframe for Completing the Work	Comments
Upgrade storm water storage tank at WWTP as necessary	C.1	22 nd December 2015	Yes		There are no current plans to upgrade the storm water storage tanks at the Works. This will be reassessed on completion of the drainage areas plans where network is currently being considered under the model solution.	The four drainage area plans under investigation are for the MLPS, Sutton, Dodder Valley and West pier catchments.
City Centre Sewerage Scheme (CCSS)	C.3	None specified	Not applicable	In progress	Stage 4 completed, with progression on prioritised projects to specimen design. Programme to be determined.	Elements of upgrades are occurring. Note projects such as Eden Quay siphon upgrade progressed in 2022. Critical Assets surveys progressed to survey in 2022.
North Docklands Sewerage Scheme	C.3	None specified	Not applicable	Completed	Completed	

Specified Improvement Programme Summary – Fingal County Council Functional Area:

Specified Improvement Programmes (under Schedule A and C of WWDL)	Licence Schedule	Licence Completion Date	Date Expired? (N/NA/Y)	Status of Works	Timeframe for Completing the Work	Comments
(D0034-SIP:01) Discharge S4 Fingal to the Irish Sea to be discontinued	A.3	31/12/2011	Yes	Proceeding to detailed design.	2024	Planning consents progressed and were submitted in 2022. Planning received Jan 2023. Target completion dates are subject to change pending successful completion of the relevant statutory processes.

IMPROVEMENT PROGRAMME SUMMARY

Improvement Programme Summary - Dublin City Council Functional Area:

Improvement Identifier	Improvement Description	Improvement Source	Expected Completion Date	Comments
WWTP Upgrade	WWTP Upgrade	WWTP (Condition 5.2)	<p>End 2023 – scheduled completion of interim works to enable the production of a compliant effluent for 2.1 million p.e.</p> <p>End 2025 – scheduled completion of final works to upgrade WWTP to a capacity of 2.4 million p.e.</p> <p>As outlined above, it is important to note that this programmed 2023 date is the anticipated date that the plant can start producing an effluent in line with the parameters set out in the UWWTD</p>	

Improvement Identifier	Improvement Description	Improvement Source	Expected Completion Date	Comments
			and the actual confirmed UWWTD compliance determination will be up to 12 months from that date (on attaching 12 months compliance with the UWWTD ELVs).	
<p>Main Lift Pumping Station Catchment DAP -Rathmines & Pembroke -Crumlin/Drimnagh/Bluebell</p>	<p>Survey & Assessment of Wastewater Network</p>		<p>2025</p>	<p>Flow surveys complete and Model Build in progress – Ongoing. Advanced assessment and model build carried out in Crumlin for flood investigation. Currently at optioneering stage.</p>
<p>Sutton Pumping Station Catchment DAP -North Fringe -North Dublin Drainage Scheme (NDDS)</p>	<p>Survey & Assessment of Wastewater Network</p>		<p>2026</p>	<p>Surveys currently ongoing. Project delays due to Covid-19 restrictions. In 2022 Project splitting and Advancement of key areas for growth on the North Fringe sewer earmarked. Assessment of flows from Dublin airport completed as part of advanced works. Future growth assessments for the NFS catchment are being delivered with</p>

Improvement Identifier	Improvement Description	Improvement Source	Expected Completion Date	Comments
				the aim to claw back time in the critical growth areas.
Main Lift Pumping Station Upgrade Works	Upgrade to MLPS (Civil & M&E Works including pumps and panel replacements)		2023	Civil & M&E Works including pumps and panel replacement complete. Additional Works have been identified to replace the two existing Inverted Syphons due for completion Q4 2022. One no. siphon works under way in 2022. One no. siphon pushed to 2023 as an additional panel took priority in works programme that was not included for in original scope.
Wastewater Pumping Station Capital Maintenance Works Programme	Capital Maintenance Works to Multiple Wastewater Pumping Stations		Completed	

Improvement Programme Summary - South Dublin County Council Functional Area:

Improvement Identifier	Improvement Description	Improvement Source	Expected Completion Date	Comments
Main Lift Pumping Station Catchment DAP -Newcastle/Rathcoole/Saggart -Lucan/Clondalkin	Survey & Assessment of Wastewater Network		2025	Flow surveys complete and Model Build commenced. Still on track.
Dodder Valley Sewers DAP	Survey & Assessment of Wastewater Network		2023	Asset Surveys complete. Stage 3 assessment due for completion in 2023. Still on track.
Newcastle Local Network Reinforcement Project	Provision of additional capacity and storage to control overflows and reduce flooding risk.	Wastewater catchment plan completed 2022	Separate alternative Project being progressed to service Newcastle area. Alternative servicing implemented with developer. Upgrade of Newcastle WWPS for equipment replacement and optimisation to be completed in Q3 2023 / Q1 2024 as a result of the catchment assessment.	Wastewater catchment plan completed 2022
Ballycullen/Oldcourt Network Reinforcement Project	Provision of additional capacity to control reduce flooding risk.	Network Upgrade	Completed	Works for the new 450mm sewer were completed as of September 2022.

Improvement Programme Summary - Fingal County Council Functional Area:

Improvement Identifier	Improvement Description	Improvement Source	Expected Completion Date	Comments
Sutton Pumping Station Catchment DAP -North Fringe	Survey & Assessment of Wastewater Network		2026	Surveys currently ongoing. Project delays due to Covid-19 restrictions. Overall DAP still on track. As per above note key areas are being advanced in 2023 to interim model build and catchment growth assessment to the development of projects in critical growth areas.
Blanchardstown Sewerage Scheme Phase 2 Contract 2: Duplication of 9C Sewer & Storage	Provision of additional capacity and storage to control overflows and reduce flooding risk.	Wastewater Pumping Station, Storage and Network Upgrade	Q3 2023	Construction completed. Currently under commissioning phase.
Liffey Siphons Refurbishment	Provision of additional capacity to reduce risk of flooding	Network Upgrade	Completed	
Portmarnock Local Network Reinforcement Project	Provision of additional capacity and storage to control overflows and reduce flooding risk.	Wastewater Pumping Station, Storage and Network Upgrade	2025	Delay encountered due to An Bord Pleanála (ABP) planning refusal. Subsequent Planning delays - still awaiting appeal decision.
Kinsealy Local Network Reinforcement Project	Provision of additional capacity and storage to control overflows and reduce flooding risk.	Wastewater Pumping Station, Storage and Network Upgrade	Completed	

Improvement Programme Summary - Dún Laoghaire Rathdown County Council Functional Area:

Improvement Identifier	Improvement Description	Improvement Source	Expected Completion Date	Comments
Dun Laoghaire Sewerage Scheme Phase 1	Contract 2e - Moreen Environs Foul Sewer Upgrade, Phase 4 - Removal of deficiencies in capacity	Network Upgrade	Specimen design under way	Moreen (Sewer Upgrade at Drummartin Link Road Junction): Q3 2025.
Dun Laoghaire Sewerage Scheme Phase 1	Contract 2 - Network Upgrade Sandyford/ Stillorgan Improvement-Tunnel - Removal of deficiencies in capacity	Storage and Network Upgrade	Specimen design under way.	Sandyford/Stillorgan WW Upgrade (Stillorgan reservoir site storage & associated WW Upgrades in the general Sandyford Business Park area): Q3 2027. Sandyford WW Upgrades (Storage South of M50 and associated upstream WW Upgrades): Q2 2026.
Goatstown Local Network Reinforcement Project	Provision of additional capacity to reduce risk of flooding	Network Upgrade	Completed	
Churchtown/Landscape Rd Network Reinforcement Project	Provision of additional capacity to reduce risk of flooding	Network Upgrade	2024	Contractor has been appointed and site investigations underway. Works at this location are expected to be completed by Q1 2024.
West Pier Pumping Station Catchment DAP - West Pier East - West Pier West	Survey & Assessment of Wastewater Network	Not Applicable	2023	Asset Surveys complete. Stage 3 assessment due for completion 2023 – On track.

Improvement Programme Summary – Meath County Council Functional Area:

Improvement Identifier	Improvement Description	Improvement Source	Expected Completion Date	Comments
Seal the leaking cable ducts and other points that flood the wet well sumps	Seal the leaking cable ducts and other points that flood the wet well sumps; a) at Ashbourne PS b) at Kilbride PS	Not Applicable	Completed	Completed
A new radio signal system in Ashbourne, Kilbride & Ratoath pump stations.	Installation of a new radio signal system in the Ashbourne, Ratoath and Kilbride pumping stations which when complete will provide a robust alarm system for the pumping stations and help prevent unauthorised discharges from Kilbride PS.	Not Applicable	Completed	Completed

STORM WATER OVERFLOW COMPLIANCE

Uisce Éireann (UÉ) have an agreed programme with the Agency of identifying SWO’s nationally and reporting on their performance. These are identified through the Drainage Area Plan (DAP) Programme and through the Storm Water Overflow Assessment Programme. Where non-performance is noted through these assessments UÉ will prioritise these SWOs in accordance with their significance, their impact on receiving waters and the sensitivity of the discharge location. The SWOs in the Ringsend catchment are currently being assessed through the DAP Programme. These assessments are under various stages. Where completed assessments demonstrate SWOs are not meeting with Procedures and Criteria in Relation to Storm Water Overflows, 1995, UÉ are developing options required in order to meet compliance standards for current and expected future flows. Within the Greater Dublin Area Agglomeration these options are site specific and will involve elements of additional network capacity where feasible and will result in specific projects located at SWOs. Given the urban nature of the catchment the likely solutions for the core network area will focus mainly on developing longer term storm water management solutions involving removal at source. This can occur naturally as brownfield developments re-engineer their drainage systems to be separate, with foul only discharges to combined sewers being the preference. Methods such as Sustainable Urban Drainage Systems (SuDS) on public and private property, storm water network separation and disconnection of storm network water road gullies from the combined system, inflow and infiltration removal are the likely required works to yield improvements and meet criteria over time. UÉ are actively engaging with Developers, the various Local Authority departments and public transportation agencies to develop drainage plans and projects with the removal of storm water being the key focus.