

PRELIMINARY CIP LIST

Project	Project Descriptions	Construction Cost Estimate
Water Treatment		
Wylie WTP I and II Outfall Improvements	Improve surface water management and offsite control of water from the Wylie Water Treatment Plant.	< \$2M
Chemical System for Wylie Water Treatment Plants I, II, and III Enhanced Biologically Active Filters	Post Biologically Active Filtration chemical system optimization improvements	\$2M - \$5M
Wylie WTP II Sedimentation Basins 1, 5, 6 & 8	Raw water structure, flocculation basins, and raw water meter vault rehab.	\$16M - \$25M
Wylie WTP II Backwash Reclamation Upgrade	Improvements to the filter backwash reclamation system including meter ann recycle return pump replacement	< \$2M
Wylie WTP II Filter Media Improvements	Upgrade existing filter media at Wylie WTP II.	\$6M - \$15M
Wylie WTP III Liquid Treatment Improvements, Phase I	Sedimentation Basin Nos. 2 and 8 - Repair mortar erosion on walls, replace basin weirs, recoat collector mechanism. Replace drive mechanism, motors, valves, actuators, and ventilation. Raw Water Structure - Repair leaking pipe penetration, replace thimbles, and replace gates.	\$6M - \$15M
Wylie WTP III Rapid Mix, Flocculation and Sedimentation Basins	Structural, mechanical, electrical and instrumentation improvements recommended by the condition assessment study	\$26M - \$50M
Wylie WTP III Filters	Replace air pipelines, miscellaneous piping, update lighting, and replace instrumentation and control. Replace components of filter influent, effluent, and sludge pneumatic system.	\$16M - \$25M
Wylie WTP III Filter Media Improvements	Upgrade existing filter media at Wylie WTP III.	\$6M - \$15M
Wylie WTP IV Filter Media Improvements	Upgrade existing filter media at Wylie WTP IV.	\$6M - \$15M
Wylie WTP IV Backwash Pumping and Reclamation Upgrade	Improvements to Filter Backwash Reclamation System, improvements to the Pneumatic System, and Sludge Handling improvements.	\$6M - \$15M
Wylie WTP IV Liquid Treatment Improvements	Seal cracks, replace baffles, overhaul mechanical mechanisms, miscellaneous electrical and instrumentation at Flocculation Basins 1-4. Seal cracks, replace platform, replace rapid mix assembly, miscellaneous electrical and replace ferric meters at Rapid Mix 1-4.	\$6M - \$15M
Wylie WTP Process Residual Improvements, Phase II	Thickening improvements at Wylie WTP including new gravity thickeners, piping to redirect lagoon decant to thickeners, and new thickener pumps and piping to lagoon.	\$26M - \$50M
Wylie WTP Residuals Monofill	New monofill facility for residuals disposal and a new pumping and pipeline system to send the residuals from Wylie WTP to the monofill site.	\$26M - \$50M
Wylie WTP Additional Clearwells 2024	New clearwell to provide additional storage capacity at the Wylie Water Treatment Plant	\$16M - \$25M
Tawakoni WTP Improvements	Improvements for addressing aging infrastructure	\$6M - \$15M
Wetlands Phosphorous Removal	New chemical system to remove phosphorous at East Fork Wetlands	< \$2M
Water Pump Stations		
Bonham WTP Intake Improvements	Maintenance dredging at the existing intake and disposal method/location.	\$2M - \$5M
Wylie WTP Raw Water Pump Station No. 1 Improvements	Seal cracks, repair exterior damage, repair foundation. Install additional ventilation. Replace piping, pumps, valves. Install new sump pump. Replace flow meter, PLC, level floats and miscellaneous equipment.	\$6M - \$15M
Bois D'Arc Lake Leonard WTP HSPS Expansion 90 MGD to 180 MGD	Expansion of the high service pump station to 180 MGD by adding two pumps to the existing building and constructing a new building with three pumps	> \$50M
Casa View Pump Station Mechanical Improvements	Replacement of existing pumps.	\$2M - \$5M
McKinney No. 1 Pump Station Site Improvements	Condition-driven improvements at the McKinney No. 1 Pump Station.	< \$2M
Wylie WTP East System High Service Pump Station Improvements	Wylie WTP I Distribution Meter Vaults Improvements, Rockwall High Service Pump Station Improvements, and Clearwell No. 3 Improvements	\$6M - \$15M
Wylie WTP Raw Water Pump Station No. 3 Improvements	Repair roof vents, rehab pumps, replace distribution gear. Miscellaneous mechanical, electrical, and instrumentation.	\$6M - \$15M
High Service Pump Stations (HSPS) 2-2 & 2-3 Improvements	Miscellaneous structural improvements. Replace HVAC, valves, and motors. Install pressure transmitter.	\$2M - \$5M
Lake Chapman Booster Pump Station	Construct a new Booster Pump Station on Cooper pipeline.	\$16M - \$25M
Water Pipelines		
Texoma Pipeline Improvements Phase III	Cathodic protection improvements.	< \$2M
Cooper Pipeline Extension	Extend and connect Lake Chapman/Cooper raw water pipeline with Lake Texoma raw water pipeline.	\$6M - \$15M
36" Wylie to Rockwall Pipeline	New waterline to supply the eastern portion of NTMWD's East transmission system.	\$6M - \$15M
Waterline Relocations for TxDOT Road Improvements	Placeholder for waterline relocations due to future road widening projects on Farm-to-Market Roads and State Highways.	< \$2M

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Relocation of 20" Wylie/McKinney Pipeline	Relocate portions of this waterline due to road widening.	< \$2M
12" Waterline Parallel to Wylie to McKinney 20" Waterline	Construction of a new 12-inch waterline to parallel the 20-inch Wylie to McKinney Pipeline.	< \$2M
Improvements on Cooper Pipeline	Improvements to the 72" raw waterline to increase pressure rating due to the addition of a new booster pump station	\$6M - \$15M
30" Pipeline from Leonard WTP 84" Pipeline to Farmersville	Construction of a new 30-inch pipeline from 84" Leonard WTP/McKinney pipeline to the City of Farmersville area.	\$26M - \$50M
Wastewater Treatment		
Wilson Creek RWWTP Improvements, Phase I	Placeholder for near term recommended improvements from the Master Plan.	\$16M - \$25M
Squabble Creek WWTP Decommission	Decommission of the Squabble Creek WWTP in Rockwall. The timeline is dependent upon the completion of the Buffalo Creek Interceptor Parallel, Phase I, which is currently in construction.	< \$2M
Wilson Creek RWWTP Improvements, Phase II	Placeholder for near term recommended improvements from the Master Plan.	\$16M - \$25M
Floyd Branch Regional WWTP Filter, Grit Removal, and Advanced Treatment Improvements	Scope of work is awaiting recommendations from the Master Plan. The Master Plan is currently in progress.	\$6M - \$15M
South Mesquite Regional WWTP Solids System Improvements, Phase I	Originally scope for Digesters which were deferred due to low landfilling cost. Project may be repurposed for Master Plan recommendations.	\$6M - \$15M
Stewart Creek West WWTP Expansion to 15 MGD	Expand Plant annual average daily flow (AADF) from 10MGD to 15 MGD and Peak 2-Hr treatment from 35MGD to 52.5MGD.	\$26M - \$50M
Wilson Creek RWWTP Systems Improvements, Phase I	Originally slated for Digesters which were deferred due to low landfilling cost. Maybe re-purposed for Master Plan recommendations.	\$16M - \$25M
Rowlett Creek RWWTP Peak Flow Management Improvements, Phase III	Expand Peak Flow treatment from 95MGD to 120MGD with membrane bioreactor (MBR) technology.	\$26M - \$50M
Wilson Creek RWWTP Solids System Expansion	Originally slated for third centrifuge. May be re-purposed based on Master Plan recommendations.	\$2M - \$5M
South Mesquite Regional WWTP Solids System Improvements, Phase II	Originally scope for Digesters which were deferred due to low landfilling cost. Project may be repurposed for Master Plan recommendations.	\$6M - \$15M
Wastewater Lift Stations		
Wilson Creek Lift Station Expansion	Increase lift station capacity from 63 MGD to 87 MGD. The current construction project in progress adds pumps that can be turned down to a firm capacity of 63 MGD.	\$2M - \$5M
Beck Branch Lift Station (LS), Prairie Creek LS & Renner Road LS Improvements	Replace three pumps at the Beck Branch Lift Station with electrical improvements. Install an additional pump at the Prairie Creek Lift Station. Upgrade the HVAC at the Renner Road Lift Station. All three locations require upgrades to SCADA, Security, Odor Control and electrical.	\$2M - \$5M
Lower Rowlett Creek Lift Station Improvements	Pre-Design will confirm scope of replacing pump and motors, valves, instrumentation, odor control, air release valves (ARV's), de-raggers, motor control center (MCC), pipe coating, bypass and hydrogen sulfide (H2S) gas sensors.	\$2M - \$5M
Princeton Lift Station Expansion to 25 MGD	Lift Station firm capacity expansion from 12 MGD to 25 MGD.	\$6M - \$15M
Upper East Fork Interceptor System (UEFIS) Bypass Connection and Valve Improvements, Phase III	Placeholder to provide bypass connections to simplify bypass pumping that is needed during maintenance activities or construction at lift stations.	\$2M - \$5M
Lower East Fork Interceptor System Lift Station Improvements	Lift Station Expansion from 15 MGD to 37 MGD. Includes electrical and structural improvements.	< \$2M
Richardson Spring Creek Lift Station Expansion to 13 MGD	Expand firm capacity from 11 MGD to 13 MGD.	\$2M - \$5M
UEFIS Lift Station Improvements 2024	Placeholder for future lift station condition assessment recommendations or Nominations.	\$2M - \$5M
Upper Rowlett Creek Lift Station Expansion to 60 MGD	Expand firm capacity from 56 MGD to 60 MGD.	\$2M - \$5M
Plano Spring Creek Lift Station No. 2 Pump Addition	Pump addition or replacement from 60 MGD to recommended capacity to be determined from the Regional Capacity Assessment project.	\$2M - \$5M
Lower White Rock Creek Lift Station Wet Well Improvements	Increase wet well active volume for variable frequency drive (VFD) requirements to prevent over cycling and emergency storage capacity.	\$2M - \$5M
Wastewater Pipelines		
Princeton Force Main Replacement	Replace approx. 18,600 linear feet of existing 14-inch forcemain from the Princeton Lift Station to the North McKinney interceptor junction box at FM 546 with a new forcemain of larger diameter on an alternate alignment to avoid future widening of County Road 400.	\$6M - \$15M
UEFIS Forest Grove Siphon	Remove siphon on the 54-inch Rowlett Cottonwood Transfer Sewer, upstream of the Wilson Creek RWWTP.	\$2M - \$5M
UEFIS Rehabilitation and Improvements 2023	Placeholder for recommendations from the Pipeline and Condition Assessments.	\$6M - \$15M

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UEFIS Rehabilitation and Improvements 2024	Placeholder for recommendations from the Pipeline and Condition Assessments.	\$6M - \$15M
Rowlett Creek Gravity Interceptor Improvements	Rehab 10,699 linear feet of PVC pipe. Need to validate project from UEFIS condition assessment project.	< \$2M
Beck Branch Gravity Sewer Improvements	Rehab 13,300 linear feet of 27/39-inch sewer upstream of the Beck Branch Lift Station. Re-validate project after UEFIS condition assessment project.	< \$2M
Sabine Creek Parallel Interceptor Sewer	Parallel gravity sewer.	\$2M - \$5M
Electrical		
Lower Bois D'Arc Creek Reservoir - 25 Kilovolt South Loop and Transformers	Add additional electrical capacity at the Leonard WTP to accommodate expansions passed Phase II. Additional transformer capacity is required for future expansions.	\$6M - \$15M
Wilson Creek RWWTP Electrical Improvements, Phase III	Install two 3250 kilovolt-amperes (kVA) generators and replace 8 load control stations (LCSs).	\$6M - \$15M
Instrumentation and Controls		
UEFIS SCADA Improvements 2022	Recommendation from the Master Plan. Awaiting nominations.	< \$2M
Security Improvements Phase III	Improvements to site security at the Wylie Water Treatment Plant complex.	< \$2M
Apollo and Shiloh Pump Stations Physical Security Improvements	Upgrades at these two pump stations for site security.	< \$2M
General Civil and Survey		
Bois D'Arc Lake - US 69/NTMWD Way Improvements Railroad Realignment	Improve grading at the intersection of NTMWD Way and US Highway 69 in order to make this entrance usable for trucks. Improvements require realigning the railroad on an alignment further south than its current alignment.	< \$2M
Bois D'Arc Lake - State Highway 78/NTMWD Way Improvements Approach	Reconstruct the intersection of Texas State Highway (SH) 78 to improve line of sight for vehicles entering/exiting plant site and traffic on SH 78.	< \$2M
Cooper Pipeline Embankment Improvements near FM 3218 in Commerce, Phase II	Stabilization for erosion control and cover of the Cooper Raw Water Pipeline.	< \$2M
Solid Waste		
Parkway Transfer Station Conversion to Top Load	Convert transfer station from side loading trucks to top loading trucks	\$2M - \$5M
North Transfer Station	Construct a new transfer station in the northern portion of the NTMWD service area.	\$16M - \$25M
Architecture		
Wylie Service Center	Remodel of existing service center at the Wylie Water Treatment Plant complex.	\$2M - \$5M
South System Maintenance Facility Expansion	Addition of additional bays and site improvements at the NTMWD facility in Forney.	< \$2M