

Water Beyond 2000

Upground Reservoir Project

Future Construction Projects

Phase 2 Raw Water Pipeline: This segment of pipeline will be routed along SR 257 between Hoskins Road and the site of a future Del-Co Water Company plant, located off SR 257 south of Donovan Road. This project has an estimated construction cost of \$11.6 million, and includes 22,500 feet of 72-inch raw water pipeline to convey eight million gallons per day (MGD) of the stored supply from any of the three reservoirs to the Del-Co water plant site. The pipeline will be constructed on properties owned by the city of Columbus and Del-Co Water Company, as well as in easements along the roadway corridor of State Route 257. A release facility structure will be constructed on Del-Co Water Company property to provide a point of release for the stored supply back to the Scioto River to meet Columbus water customer demands.

Upground Reservoir at Site R-3: It is currently envisioned that the second reservoir will be constructed on Columbus-owned property located north of Hoskins Road, west of State Route 257 and south of Grigsby Road. This project has an estimated construction cost of \$50.7 million and will involve:

- Excavation, placement and compaction of over four million cubic yards of soil to form the earthen embankments.
- Installation of nearly 1.8 million square yards synthetic liner.
- Enough grass seed to cover just under 440 acres will be used for the outboard embankments and to restore other areas disturbed during the construction.
- Surface and subsurface drainage, and inlet and outlet piping.

When completed, this reservoir will have a surface area of just under 350 acres and hold approximately 4.4 billion gallons of water.

Upground Reservoir at Site R-1: It is currently envisioned to be the last of the three reservoirs to be constructed. This facility will be sited on Columbus owned property located north of Smokey Road, east of Mooney Road and south of Ottawa Creek. This project has an estimated construction cost of \$57 million and will involve:

- Excavation, placement and compaction of over 4 million cubic yards of soil to form the earthen embankments.
- Installation of nearly two million square yards synthetic liner.
- Enough grass seed to cover just under 445 acres.

When completed, this reservoir will have an approximate surface area of 400 acres and hold approximately 4.3 billion gallons of water.

Phase 3 Raw Water Pipeline: When constructed, this segment of pipeline will run in permanent easements and along SR 257 between the Phase 2 Raw Water Pipeline project terminus south of Donovan Road and the desired location for the release facility structure at the O'Shaughnessy Reservoir near Fry Road. This project has an estimated construction cost of \$22.6 million and includes:

- 39,000 lineal feet of 66-inch of raw water pipeline, with a 4,000-foot segment of this pipeline near White Sulphur that must be constructed using deep tunnel installation methods.
- Construction of this segment will require extensive right-of-way acquisition and coordination with ODOT to secure occupancy permits for the entire project length.

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Estimated Timeline for Future Construction Projects

Phase 2 Raw Water Pipeline: This segment of the pipeline will be built concurrent with the construction of the proposed Del-Co Water Company water plant, which is anticipated to begin no sooner than 2012-2015.

Upground Reservoir at Site R-3: Construction of this second reservoir will be necessary when the future water consumption of both Columbus and Del-Co customers begins to approach the available safe yield of the water supply with the initial reservoir in service. Based on the current water demand forecasts, it is anticipated that Reservoir R-3 will need to be constructed and in service in 2025.

Upground Reservoir at Site R-1: It is difficult to predict an exact time frame when a third reservoir would be needed, since construction of the second reservoir is not anticipated for nearly 20 years into the future.

Phase 3 Raw Water Pipeline: Based on public comments and suggestions received during the two open house meetings in 2006, the city of Columbus is currently evaluating whether this final pipeline segment should eventually be built, or if options other than constructing the pipeline are feasible. The city currently has no plans to initiate design activities for this segment of the pipeline. No funding for this project is included in the city's five-year capital improvement program.



City of Columbus
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Please submit your comments on the project at:
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