

## Odor Control Systems at Two TARP Shafts and Decommissioning the Thornton Transitional Reservoir, CSA

<b>Project Number</b>	15-266-4H
<b>Service Area</b>	Calumet
<b>Location</b>	Thornton, IL
<b>Engineering Consultant</b>	Black & Veatch Corporation, Inc.
<b>Engineering Contractor</b>	To be determined
<b>Estimated Construction Cost</b>	\$5,000,000.00
<b>Contract Award Date</b>	April-19
<b>Substantial Completion Date</b>	July-20



**Project Description** Work associated with decommissioning of the Thornton Transitional Reservoir includes excavation of existing rock plug in Thorn Creek Connection Tunnel, installation of east and west tunnel plugs in Thorn Creek Diversion Tunnel, placement of mass concrete fill between east tunnel plug and connection tunnel, installation of lining and contact grouting in portions of the connection tunnel and diversion tunnel, removal of concrete beams, rock support, and rock in the vicinity of the existing Thornton Transitional Reservoir Portal, removal of sediment in the Thornton Transitional Reservoir, installation of flow meter, bubbler, tubes, and all appurtenances related to flow meter installation in the lower connection tunnel, demolition of the existing 25-ton crane and crane rail within the valve shaft chamber, construction shaft concrete repairs (adjacent to the valve shaft chamber), removal of cone valves, knife gates, adjacent spool pieces, pipe supports, hydraulic power unit, hydraulic lines, and all appurtenant mechanical and electrical work inside the valve chamber, installation of a new dewatering pump, air release valves, gate valves, check valves, meters, piping, fittings and all appurtenant mechanical and electrical work inside the valve chamber, and any appurtenant live tunnel connection work associated with items listed above.

**Project Justification** The District entered into an agreement with Hansen Material Service to extend the lease for use of the Thornton Transitional Reservoir, and the west lobe of the Thornton Quarry, for another five years. This allows the District to utilize the Thornton Transitional Reservoir for holding overbank floodwaters from Thorn Creek while reviewing the capacity of the Thornton Composite Reservoir during its initial years of operation. With this agreement extension through December 2020, several items related to the decommissioning of the Thornton Transitional Reservoir were removed from Project 04-203-4F, Thornton Composite Reservoir Final Preparation. The purpose of this project (15-266-4H) is to complete the items that were removed and credited from Project 04-203-4F in preparation for the decommissioning of the Thornton Transitional Reservoir in late 2020.

**Project Status** Design