



State Revolving Fund Loan Program
an Indiana Finance Authority Environmental Program

100 North Senate Avenue, Room 1275
Indianapolis, Indiana 46204
www.srf.in.gov

MEMORANDUM

TO: Official Loan File

FROM: Amanda Rickard

DATE: November 7, 2019

RE: Green Project Reserve (GPR) Business Case
CWA Authority, Inc. DigIndy Tunnel Program
SRF Project WW 16 27 49 03

CWA Authority (CWA or Citizens) is implementing the DigIndy project as part of a Long Term Control Plan (LTCP) to address combined sewer overflows (CSOs) in the City of Indianapolis. The DigIndy Tunnel Program consists of approximately 28 miles of 18-foot diameter deep rock tunnel built 250 feet beneath the city that will convey, capture, and store CSOs during rainfall events. After a storm event, the tunnel will be dewatered using a deep tunnel pump station constructed at the Southport Advanced WWTP.

The White River Deep Rock Tunnel includes the construction of approximately 6 miles of 18-foot finished diameter tunnel located 200 to 250 feet underground; approximately 8 each of: drop shafts, vent shafts, deaeration chambers, adits, approach channels, screen and gate structures, and diversion structures; and approximately 5,000 feet of 42-inch to 108-inch diameter consolidation sewers, manholes and appurtenances.

The Lower Pogues Run Deep Rock Tunnel includes the construction of approximately 2 miles of 18-foot finished diameter tunnel located 200 to 250 feet underground; approximately 2 each of: drop shafts, vent shafts, deaeration chambers, adits, approach channels, screen and gate structures, and diversion structures; and approximately 1,500 feet of 72-inch to 144-inch diameter consolidation sewers, manholes and appurtenances.

The Pleasant Run Deep Rock Tunnel includes the construction of approximately 7 miles of 18-foot finished diameter tunnel located 200 to 250 feet underground; approximately 10 each of: drop shafts, vent shafts, deaeration chambers, adits, approach channels, screen and gate structures, and diversion structures; one intermediate working shaft; one tunnel retrieval shaft; and approximately 20,000 feet of 24-inch to 72-inch diameter consolidation sewers, manholes and appurtenances.

The Fall Creek Deep Rock Tunnel includes the construction of approximately 4 miles of 18-foot finished diameter tunnel located 200 to 250 feet underground; approximately 11 each of: drop

shafts, vent shafts, deaeration chambers, adits, approach channels, screen and gate structures, and diversion structures; one tunnel retrieval shaft; and approximately 5,000 feet of 24-inch to 108-inch diameter consolidation sewers, manholes and appurtenances.

The Upper Pogues Run CSO Abatement project includes the construction of the Brookside Park Storage Tank, which includes a new 2 million gallon deep shaft-style slurry wall and shotcrete storage tank, equipment building, diversion structure, and appurtenances. The project also includes associated consolidation sewers, dewatering pump stations and force main piping in the Brookside Park project area.

The City of Indianapolis' Consent Decree mandates that the proposed system be sized to capture a minimum of 97% capture for the Fall Creek watershed and a minimum of 95% capture for all other watersheds during a typical year. Due to value engineering/optimization of the tunnel alignment, drop shafts and consolidation sewers, storage capacity has increased resulting in 99% full system capture and a maximum of 2.6 overflow events per year per watershed on average.

Therefore, the DigIndy Tunnel Program qualifies as Climate and Extreme Weather Resiliency green project based on its design to perform beyond the minimum design standards in anticipation of climate change.

The total GPR cost is approximately \$174,690,000 which includes construction costs only. CWA Authority Inc. closed an SRF loan in the amount of \$180,654,974 on October 15, 2019. GPR non-construction planning and design costs were paid for previously, and are not included in the loan.