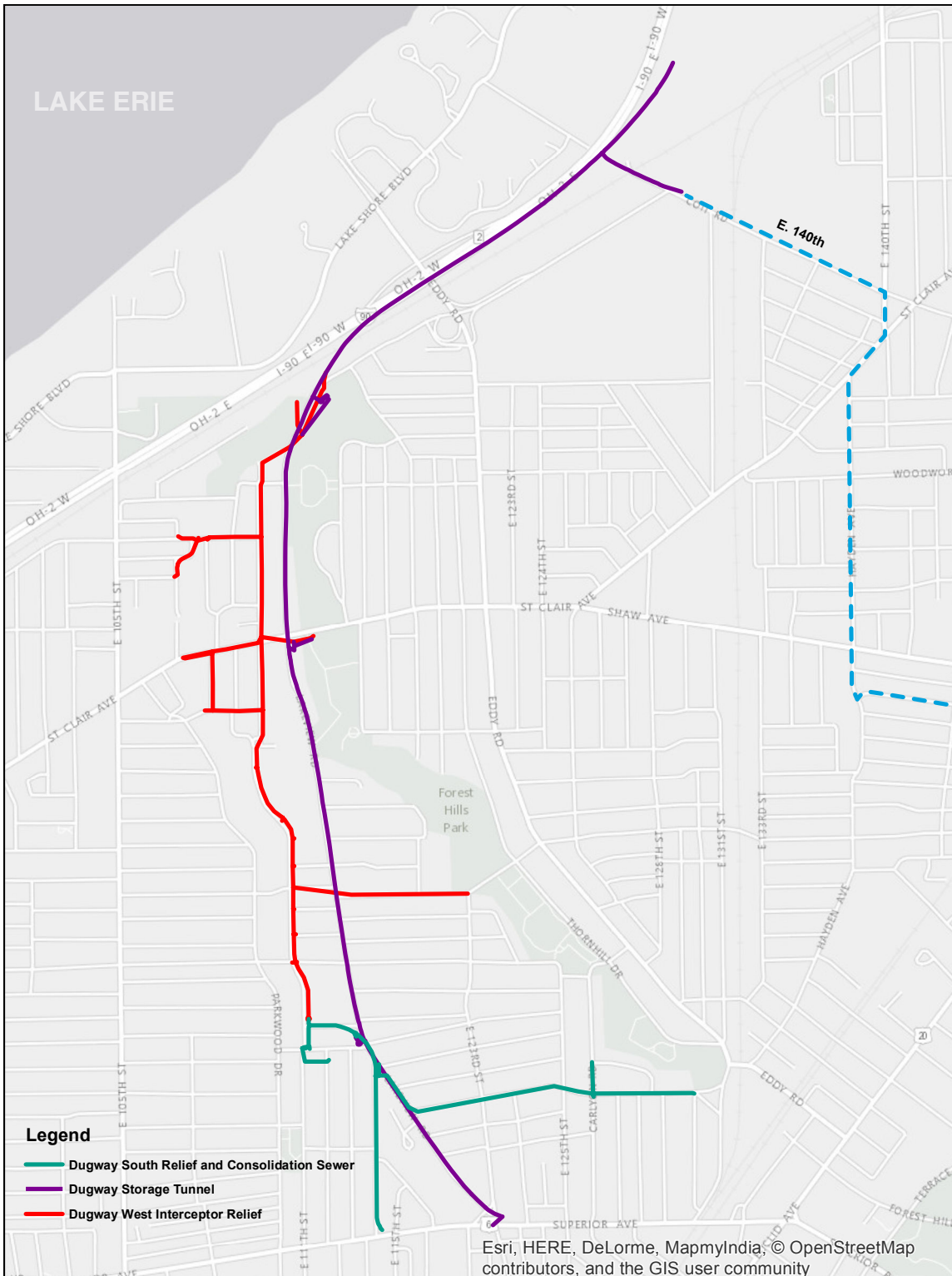


NORTHEAST OHIO REGIONAL SEWER DISTRICT DUGWAY PROJECTS

Project Clean Lake work in the **Glenville neighborhood**



ABOUT THE PROJECTS **DUGWAY AND PROJECT CLEAN LAKE**

The Dugway series of sewer projects is extensive and critical to the future of clean water in the region. It is a network of sewers and tunnels being constructed to reduce combined sewer overflows (or CSOs), ensuring a cleaner environment for the Glenville neighborhood and beyond.

When finished, Dugway will work in conjunction with the Euclid Creek Tunnel to reduce CSOs and decrease flooding.

Project Clean Lake is our \$3 billion 25-year plan to reduce CSO volumes affecting Lake Erie. It involves tunnel construction, green infrastructure and treatment plant improvements that will reduce CSOs by 4 billion gallons every year.



- Dugway Sewer
- Dugway Storage Tunnel
- Dugway South

SCHEDULE

All three sewers will be completed by mid-2019: Dugway West will be complete in 2017, Dugway South in 2018, and the Dugway Storage Tunnel in 2019.

COST

The combined estimated cost of construction is \$245 million.

LENGTH

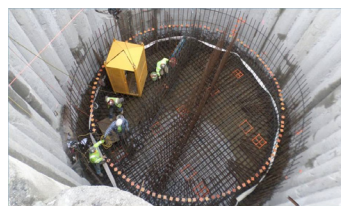
32,000 feet of sewer.

SIZES

In general, the finished sewers will range from three feet to 24 feet in diameter.

BENEFITS

- Reduce combined sewer overflows
- Decrease flooding



BY THE NUMBERS

The Euclid Creek and Dugway Storage Tunnel system will have huge CSO control benefits upon completion.

ALL EUCLID CREEK TUNNEL &
DUGWAY SEWER PROJECTS 2020

950
MILLION GALLONS
PER YEAR

WHAT IS CSO?

COMBINED SEWER OVERFLOW



Cleveland's earliest sewers are **combined sewers**. Built around the turn of the 19th century, these sewers carry sewage and stormwater in a single pipe.

During heavy rains, when there is a dramatic increase of water flowing through the sewers, some of the combined wastewater and stormwater is allowed to overflow into area waterways (as seen in the image above) to prevent urban flooding. This **combined sewer overflow**, or "CSO," harms our environment.

Learn more and see videos at neorsd.org/cso

During construction, NEORS D will maintain a full-time presence at a field office near the construction site. For more information, contact Customer Service at (216) 881-8247.

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