



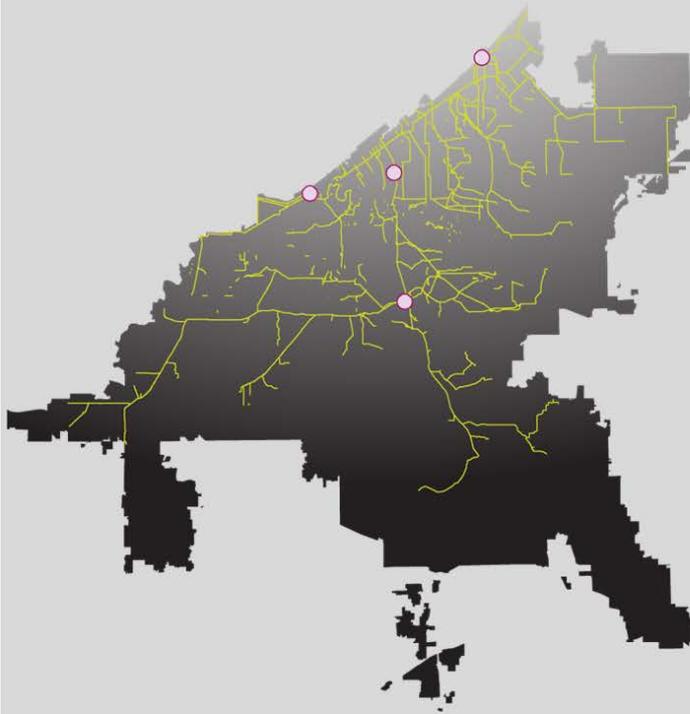
Orientation/Northeast Ohio Regional Sewer District
September 18, 2021



Cleveland STEP kicked off the 2021-2022 season with a brief orientation for students and parents, followed by an insightful presentation on adhesion and cohesion led by the Northeast Ohio Regional Sewer District.

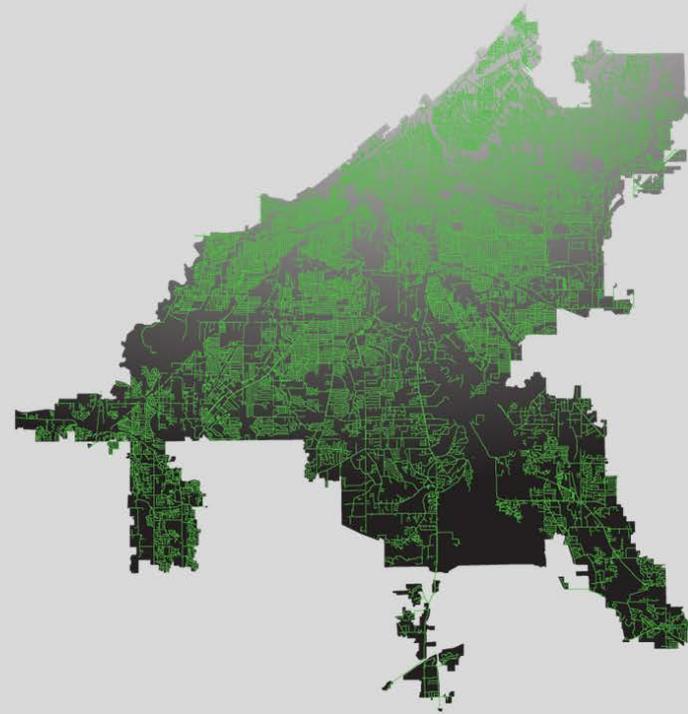
NEORS

62 Communities



326 miles

District-owned sewers and interceptors



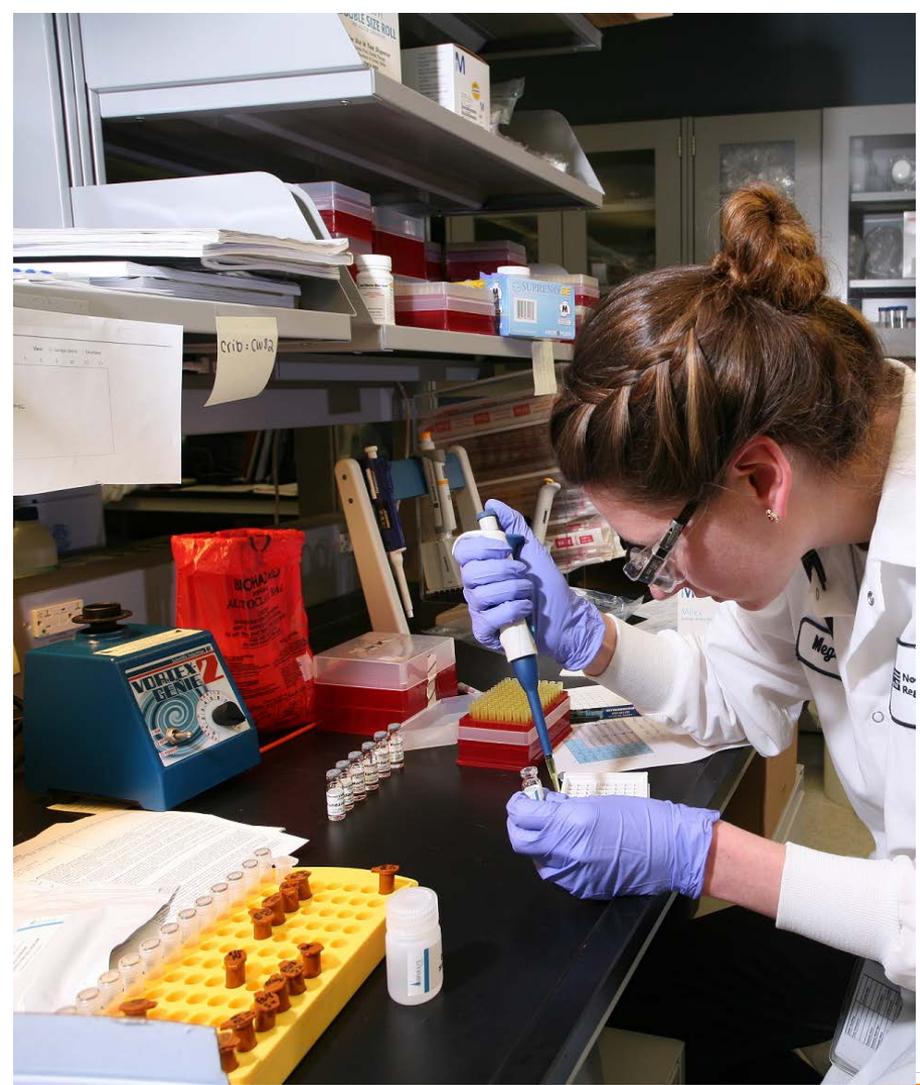
3,551 miles

Locally-owned sanitary sewers

Cleveland STEP students learned that the Northeast Ohio Regional Sewer District (NEORS) is governed by a seven-member Board of Trustees, providing sanitary and regional stormwater services.

Environmental & Maintenance Service Center Laboratory

NEORSD analyzes water, wastewater, industrial waste and surface water each year in one of the state's largest laboratories.



NEORSD also conducts tests on biosolids, as well as lake, stream and river sampling in their environmental lab. Enforcing the United States Environmental Protection Agency's pretreatment program regulations for industrial users is another component of their responsibilities.

Wastewater Treatment Plants



Easterly:

- Oldest of the treatment plants. Built in 1908 with significant improvements
- Serves 333,000 residents



Southerly:

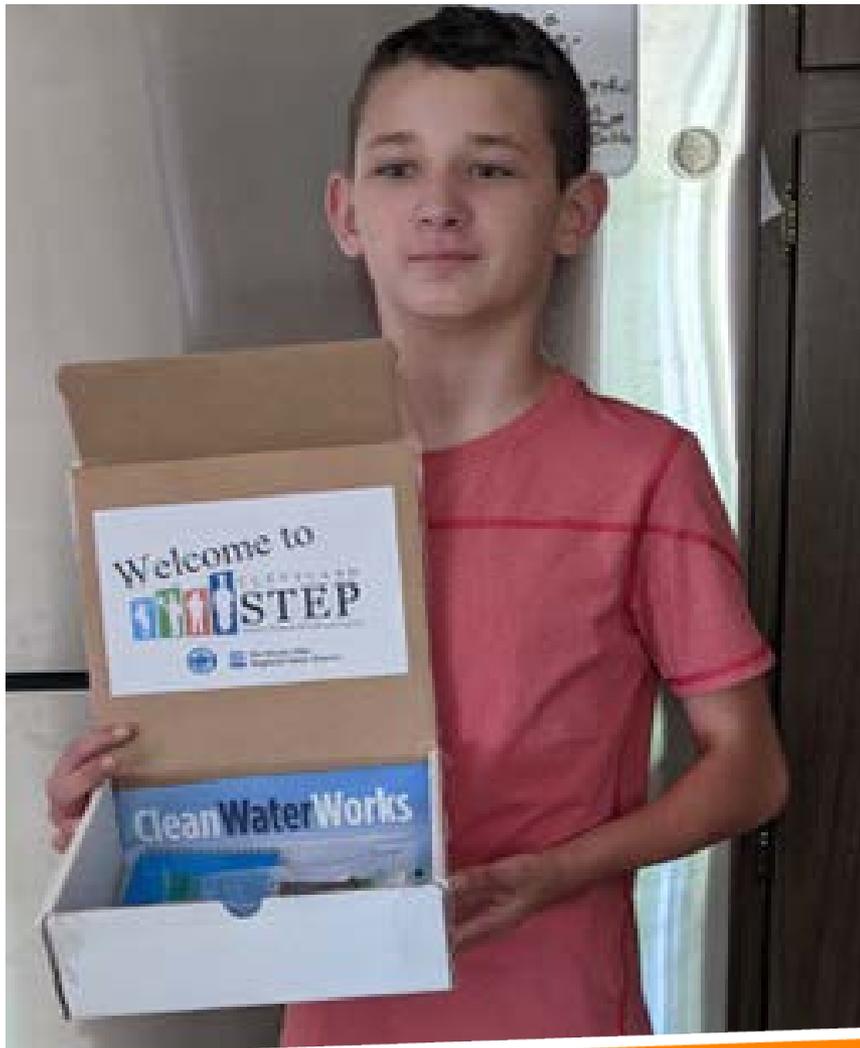
- The largest of the treatment plants; built on 288 acres
- One of the largest treatment plants in the country
- Serves 530,000 residents



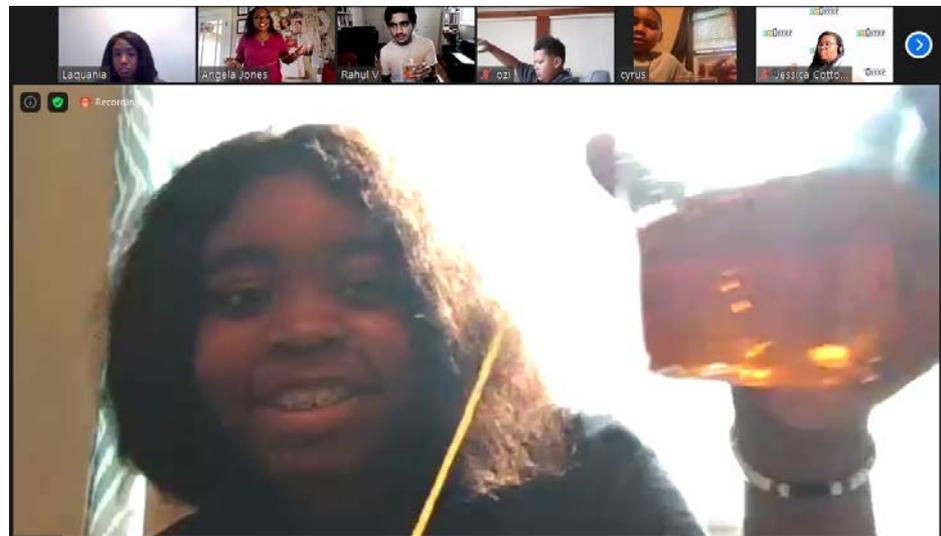
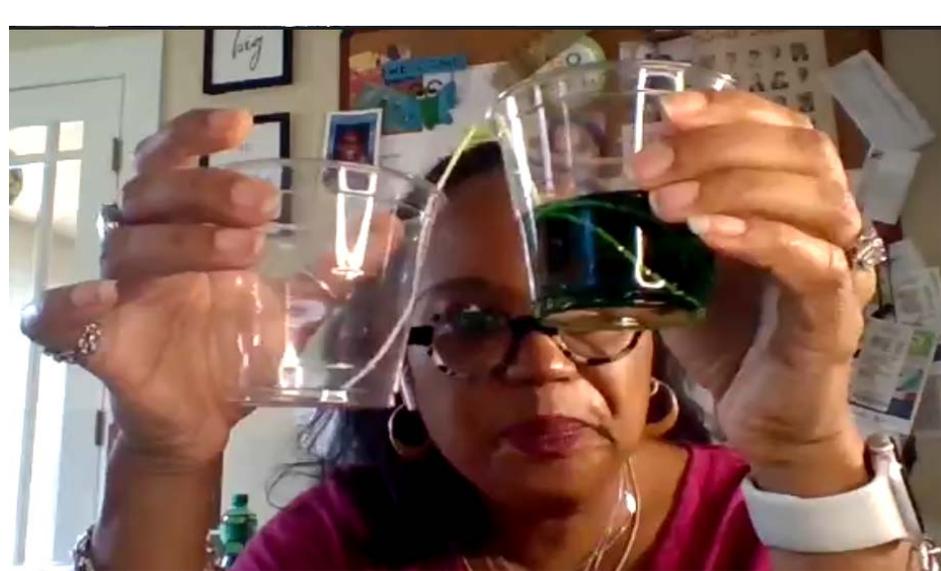
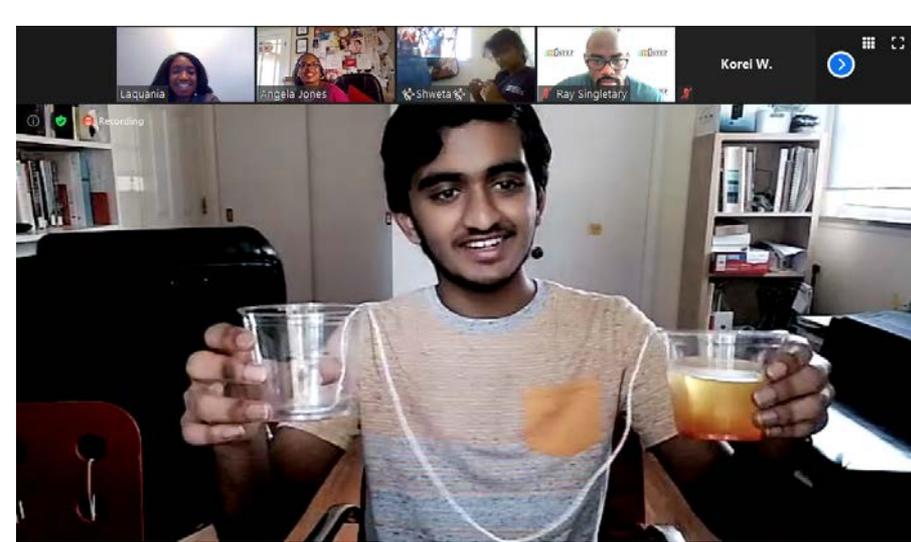
Westerly:

- Built in 1922
- Serves 107,000 residents

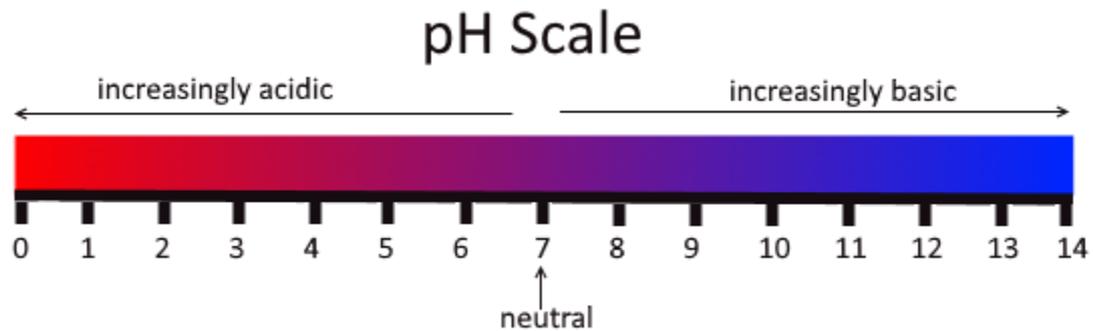
Cleveland STEP students were made aware of the flow capacity and average flow of each wastewater treatment plant, along with the impact of services provided by NEORSD.



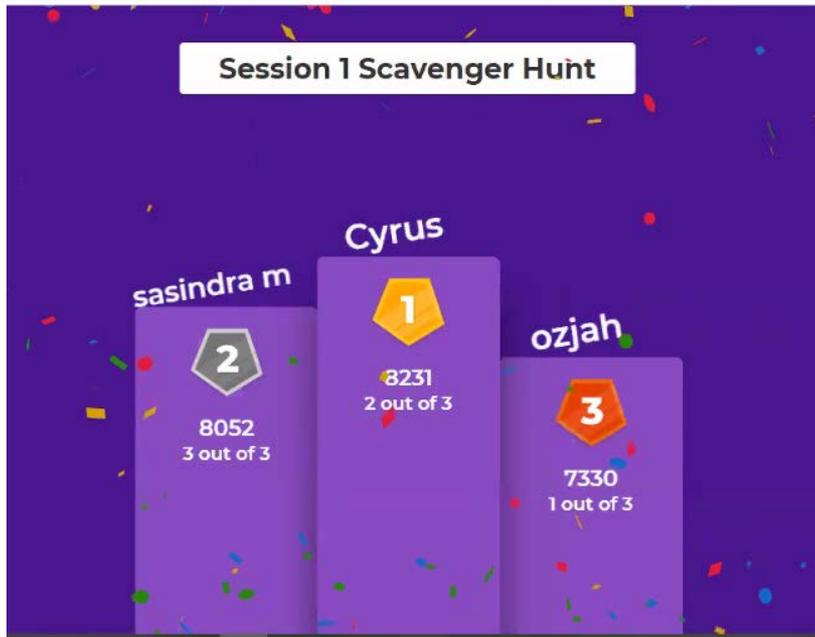
Students were given various items to conduct their very own at-home experiments. Deemed “Junior Scientists” for the day, scholars learned how to have fun with pH.



Water can actually walk? Absolutely! Angela Jones, of NEORSD, taught Cleveland STEP students how to make water travel.



Cleveland STEP students were quizzed about what pH levels are, as well as what they're used for. They learned that pH levels are used to measure the potential for hydrogen.



Cleveland STEP @ NEORS

Oxygen	Wally	Stream	Beaches	Chemistry
PH	Environment	Combined Sewer	Adhesion	Acidic
NEORS	Storm Water	CLE STEP FREE	Health	River
Lake Erie	Wastewater	Lab	Urban Water Cycle	Clean
Rain	Hydrogen	Fish & Bugs	Cohesion	Neutral

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No session would be complete without a little friendly competition. Cleveland STEP students competed for prizes to test their retention of what was discussed during the presentation.



Cleveland STEP would like to thank Angela Jones, Senior Governmental Affairs Specialist, and employees from the Northeast Ohio Regional Sewer District for an enlightening, scholastic beginning to our 2021-2022 season.

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**Northeast Ohio
Regional Sewer District**