

# WELCOME

## DELCORA WASTEWATER TUNNEL PROJECT PUBLIC MEETING – March 21, 2022



THE CITY OF  
CHESTER

## Public Meeting

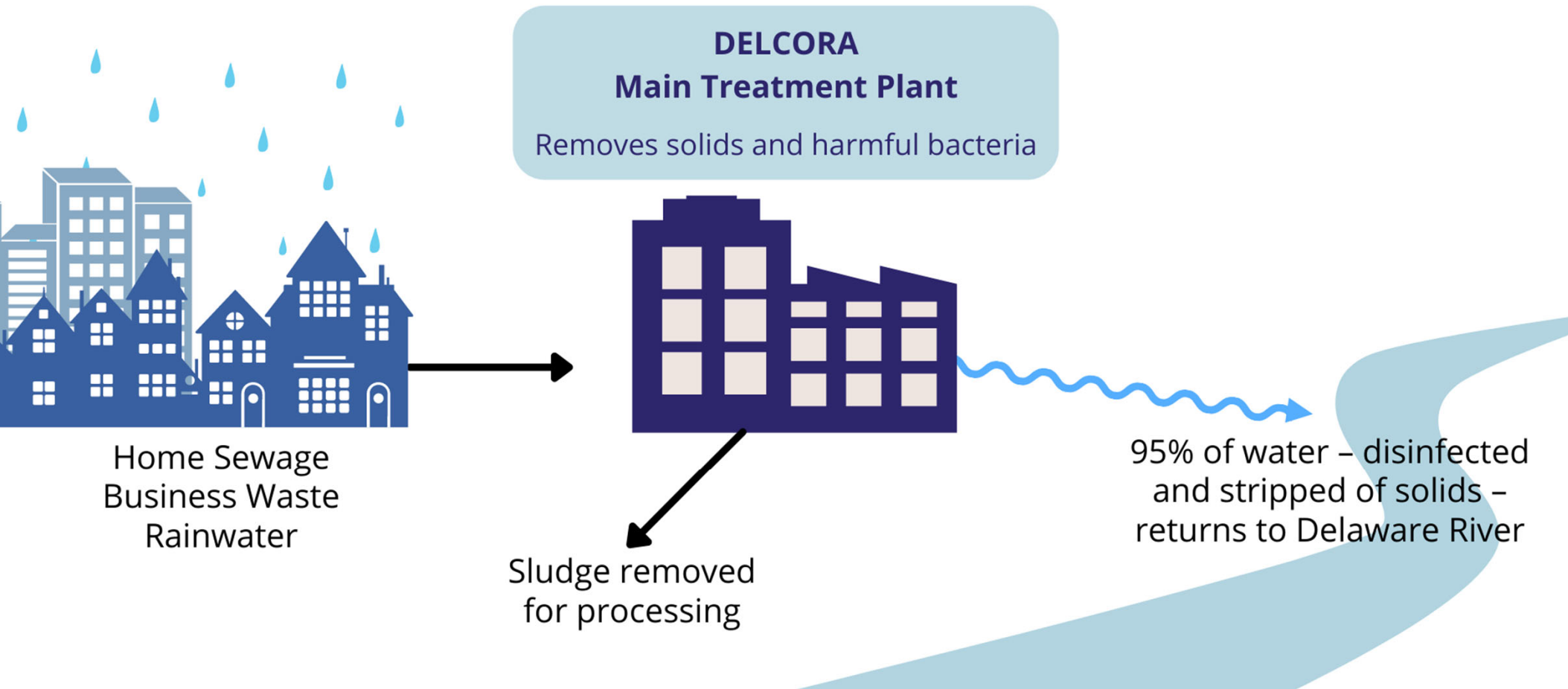
All residents of Chester are invited to a special public meeting hosted by the City of Chester to learn more about the planned expansion of the DELCORA wastewater system.

# Meeting Purpose

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- Present information about **DELCORA**
- Provide details of a planned expansion project of the **DELCORA** Wastewater System
- Listen to comments and questions regarding the project

# What Does DELCORA Do?





AERIAL IMAGE OF  
THE DELCORA  
WASTEWATER PLANT

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# What does DELCORA do?

- On a daily basis, the plant treats the equivalent volume of 1,400 typical-sized residential pools
- Compared to what comes into the treatment plant, what comes out of the plant at least 95% cleaner and completely disinfected





## DELCORA Plant – Looking upriver



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DELCORA Wastewater Plant Stack  
photographed in operation March 2022



## Additional Discharge Locations - "Combined Sewer Overflows"

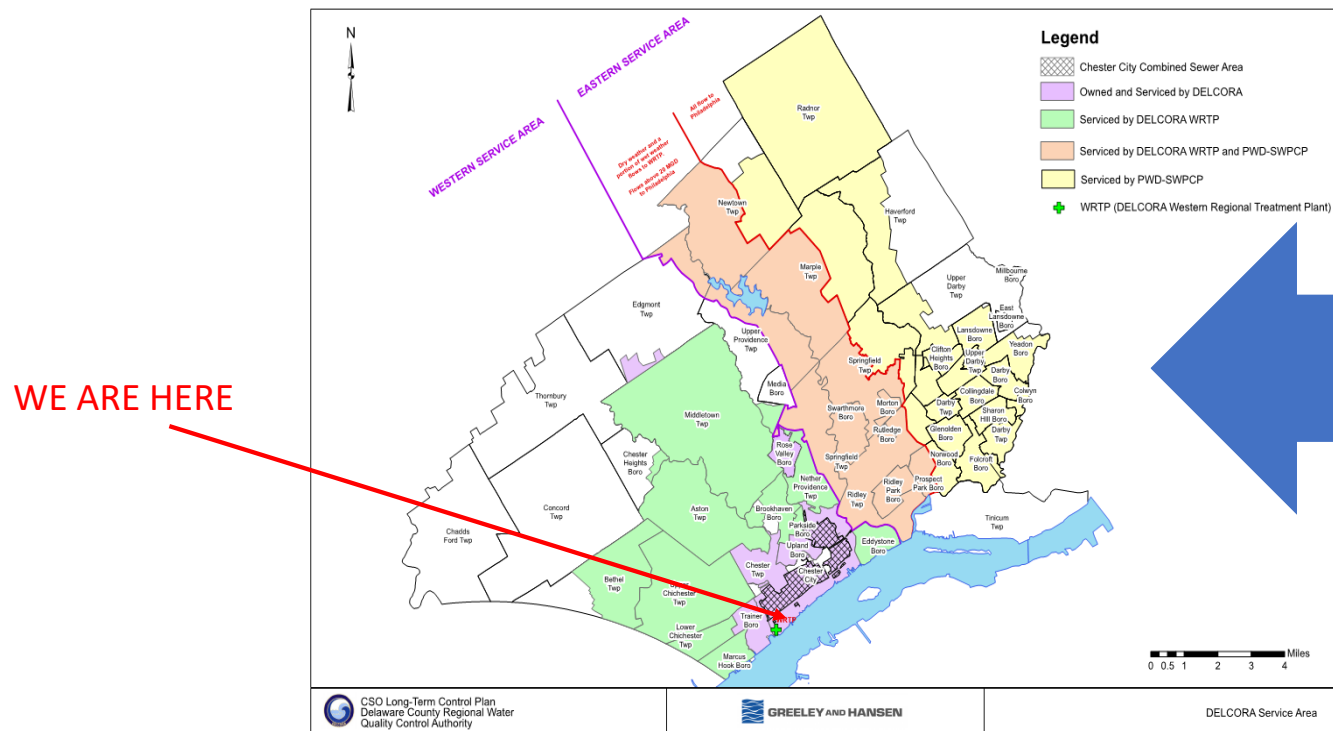


Photo Source: WHY



## LOOKING TO THE FUTURE - PLANNING

# DELCORA's Rising Costs for Treatment



# EPA Says: Control Costs and Address Chester's Sewers at the same time

# Planning

Invest in  
Tunnel  
today

Cleaner  
Chester  
Waterways &  
Riverfronts

Tunnel saves  
**\$410M over  
next 20 years**

Save several  
hundred million  
more \$



DELAWARE COUNTY REGIONAL WATER  
QUALITY CONTROL AUTHORITY

**EASTERN SERVICE AREA ACT 537  
PLAN UPDATE**

Prepared by:

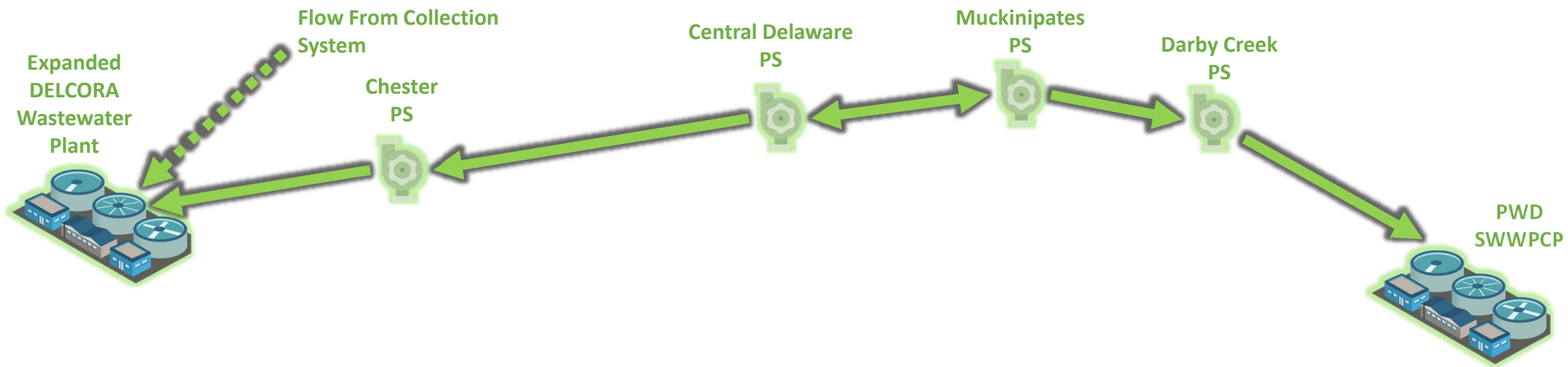
**Gannett Fleming**

Valley Forge, Pennsylvania

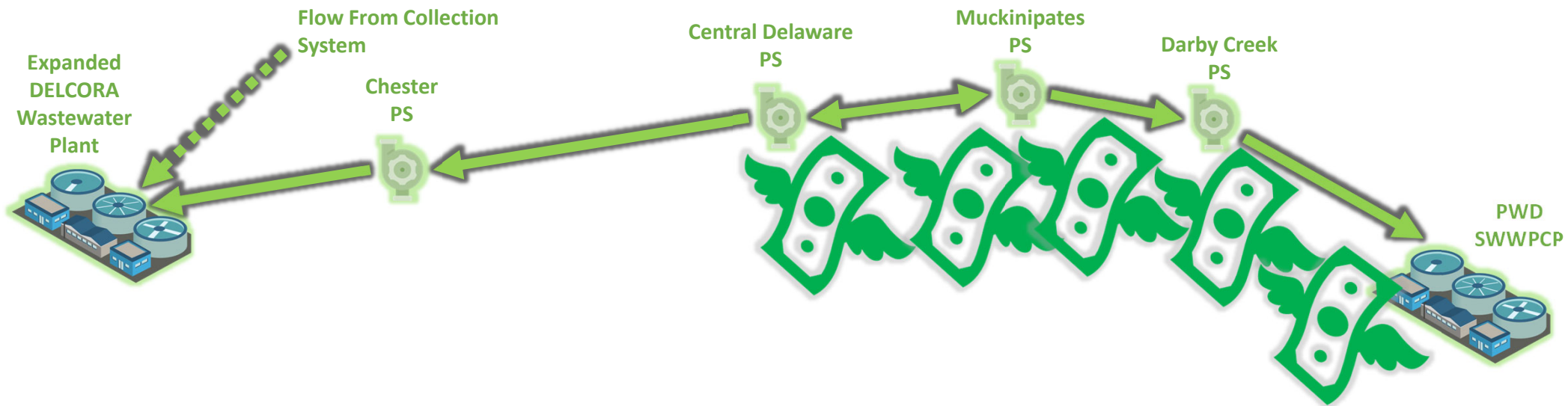
September 1, 2021

Link to download  
document  
from **DELCOA** website  
under "Tunnel" Tab

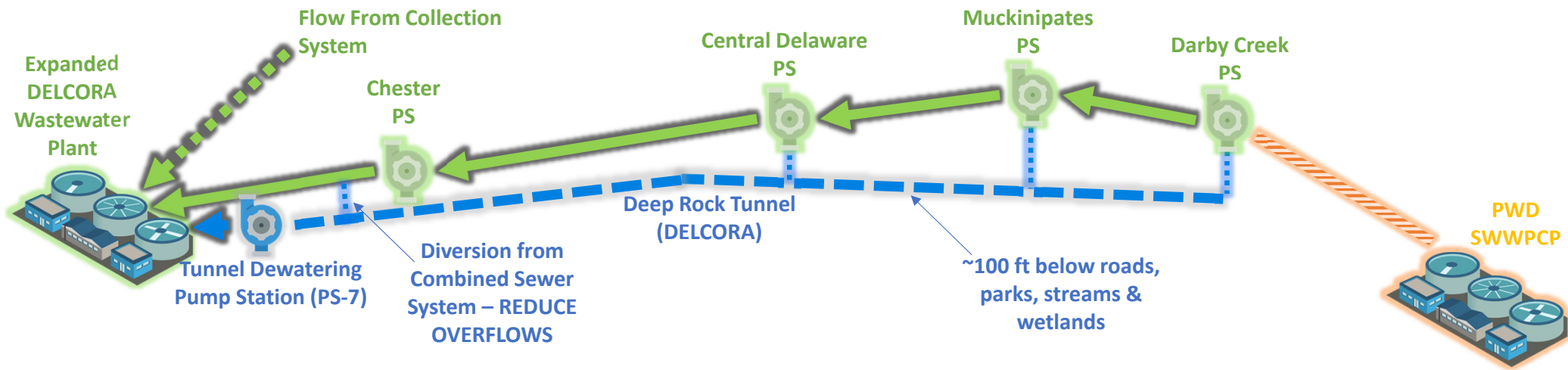
# Existing System



# Existing System



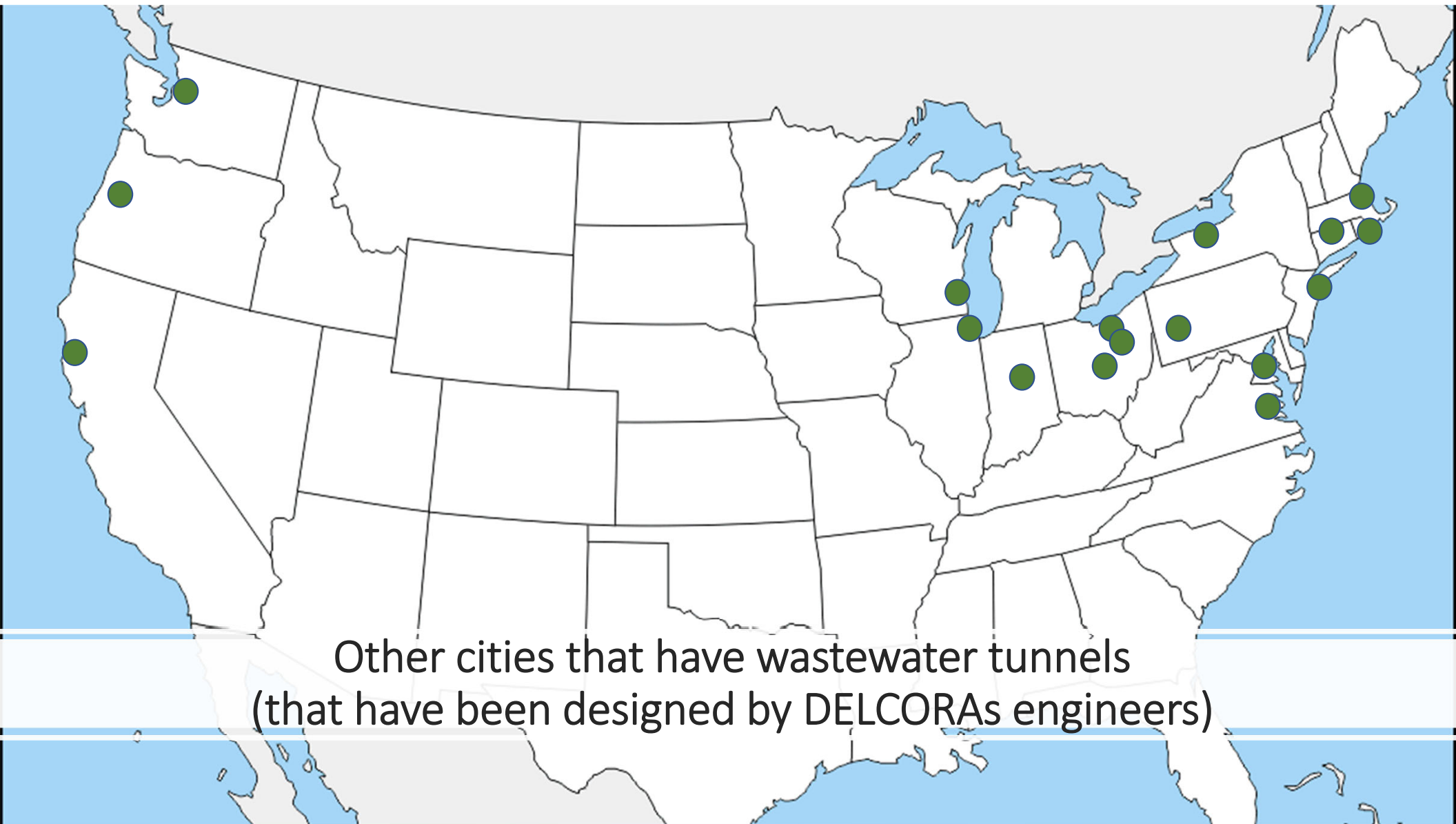
## Proposed System DELCORA Wastewater Tunnel



- Overflows reduced by over 95%
- Saving \$410M by leaving Philly system and Building a tunnel

# Proposed Tunnel Alignment





# Purpose of the Project

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In 2019, **DELCORA** estimated that capital costs to address the needs of the sewer system would be \$1.2 billion by 2042.

Over half of that estimate (\$600 million) was earmarked for the City of Philadelphia's Long Term Control Plan (LTCP) costs being mandated by the EPA.

- This amount was a steep increase from the \$178 million for the Philadelphia Water Department (PWD) LTCP costs estimated in April of 2013.

**DELCORA** determined in 2019 that to avoid the cost of the EPA unfunded mandate of the PWD LTCP that is in the best interests of the rate payers to initiate an investigation into the best alternative for future wastewater service in the service area.

# OUTCOME OF ALTERNATIVES EVALUATION

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**Considered 4 alternatives**

**Determined staying in Philly is VERY expensive**

**By moving forward with selected alternative:**

- Avoid paying PWD over \$600 million by leaving the PWD system by April 2028
- Instead, invest in the DELCORA system and save additional money over the long-term
- A smaller investment in the DELCORA system saves money and allows control of infrastructure and economic destiny
- Addresses the needs of the Service Area and the DELCORA LTCP issues.
  - Overflows reduced from ~250 to ~12 million gal/yr

# ACT 537 Planning Timeline

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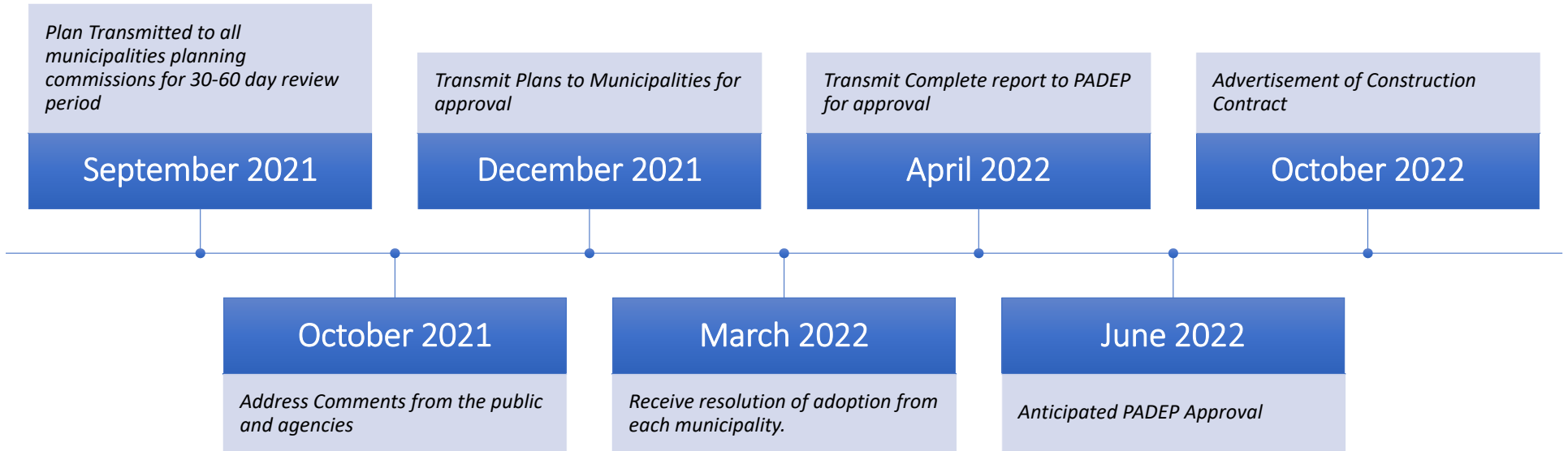


Photo Source: WHYY

## ANTICIPATED BENEFITS & IMPACT OF DELCORA TUNNEL PROGRAM

UNIFORM OUTLET  
HEADQUARTERS

# COST IMPACT

## ALTERNATIVES ANALYSIS COST COMPA RISON TABLE\*

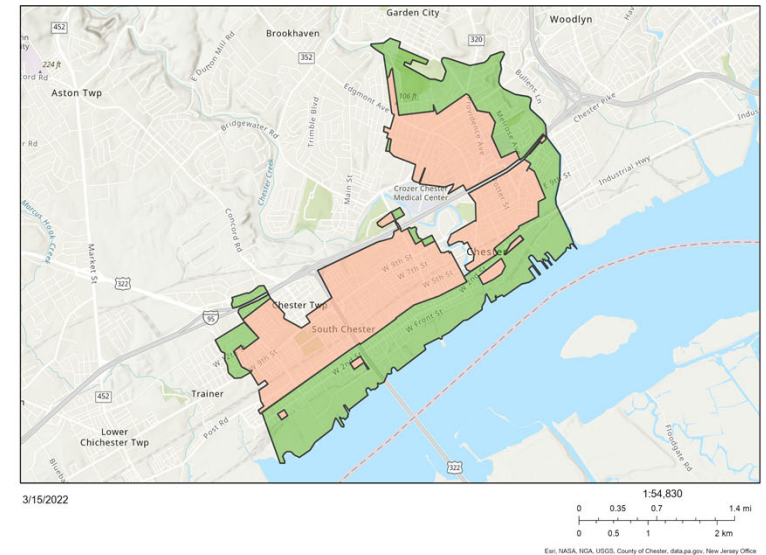
	Tunnel	New Pipelines & WRTF Expansion	New WWTP	Stay in Philly
Cost Item	Construction of the Deep Tunnel CSO capture facility and Upgrades to the Pumping and Treatment Facilities	Construction of new conveyance facilities to divert flow to an expanded WRTF.	Construction of a new WWTP and the associated Conveyance Facilities.	No Action/continued discharge to the City of Philadelphia
Tunnel All Segments Plus Shafts	\$ 295,500,000			
Tunnel Pump Station	\$ 47,600,000			
Equalization		\$ 45,100,000		\$ 45,100,000
New Parallell Pipeline		\$ 284,050,000		
WRTF Upgrades	\$ 53,300,000	\$ 66,800,000		
Wet Weather Treatment		\$ 58,000,000		
Pump station upgrades	\$ 17,500,000	\$ 39,100,000	\$ 39,100,000	\$ 17,500,000
Existing Pipeline Rehabilitation				\$ 160,000,000
Eastern Wastewater Treatment Plant			\$ 337,400,000	
Acquisition of Property for ERTF			\$ 10,000,000	
Conveyance to ERTF			\$ 153,850,000	
PWD Costs (anticipated)				\$ 605,000,000
<b>Subtotal</b>	<b>\$ 413,900,000</b>	<b>\$ 493,050,000</b>	<b>\$ 540,350,000</b>	<b>\$ 827,600,000</b>
Design Engineering & Field Work	\$ 49,700,000	\$ 59,200,000	\$ 64,900,000	\$ 45,900,000
Program Management & Admin	\$ 8,600,000	\$ 8,600,000	\$ 8,600,000	\$ 8,600,000
<b>Total</b>	<b>\$ 472,200,000</b>	<b>\$ 560,850,000</b>	<b>\$ 613,850,000</b>	<b>\$ 882,100,000</b>

WASTEWATER TUNNEL PROJECT

SAVE \$410M



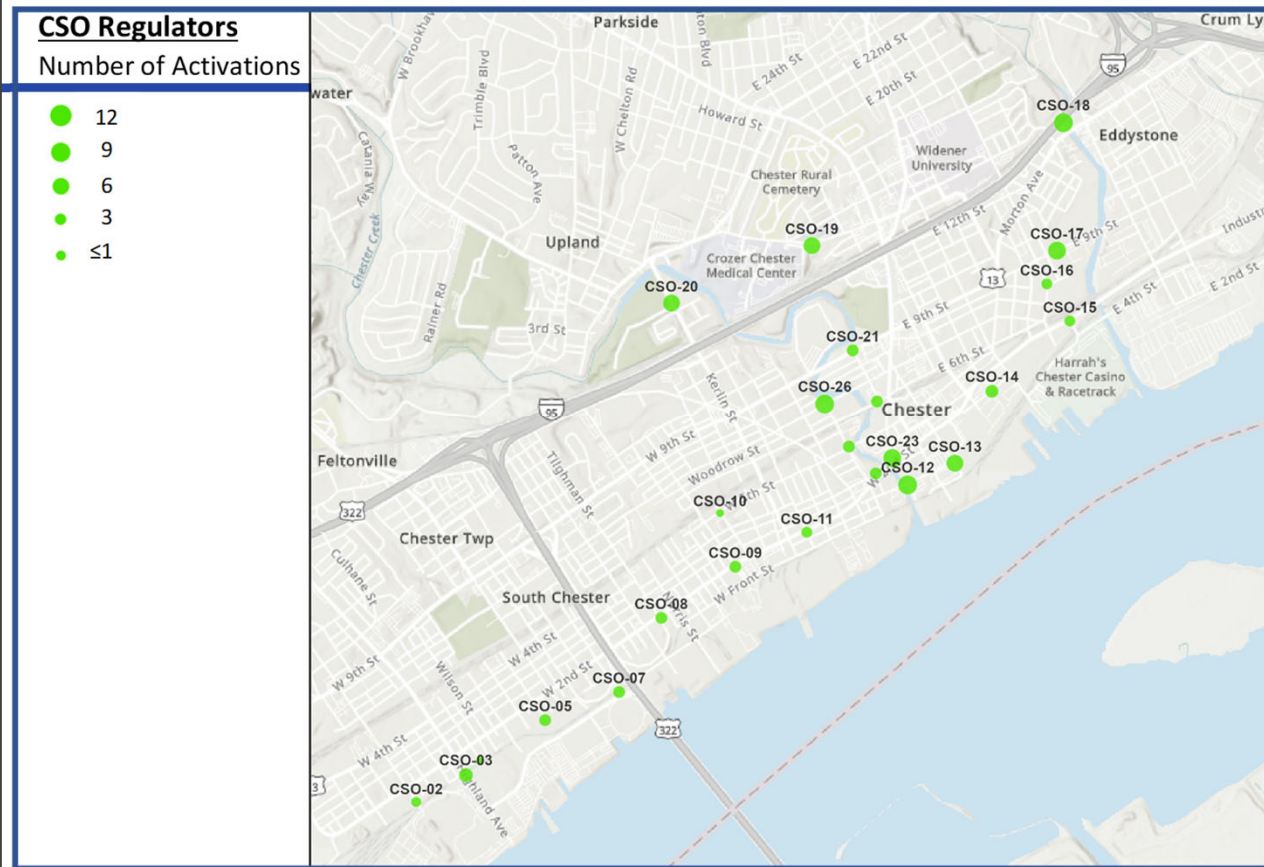
# Benefits Sewer System and Waterways in Chester City



# 95%

Reduction of  
Overflows into  
Chester and  
Ridley Creek and  
the Delaware  
River as a Result  
of the Tunnel

**DELCORA CSO LTCPU: Average Typical Year CSO Activations – After LTCP**



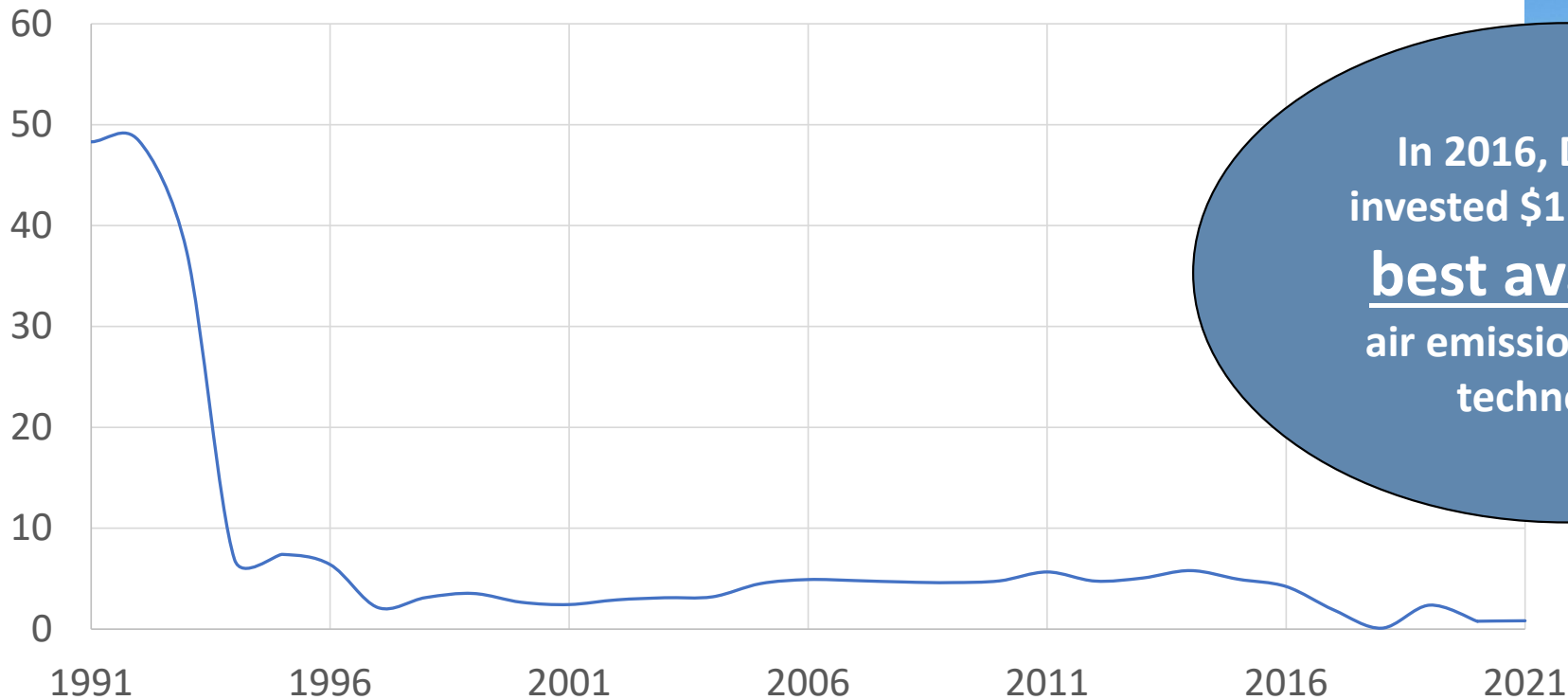
# ODOR CONTROL

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## DELCORA has a history of Improving Emissions, including those affecting Public Health

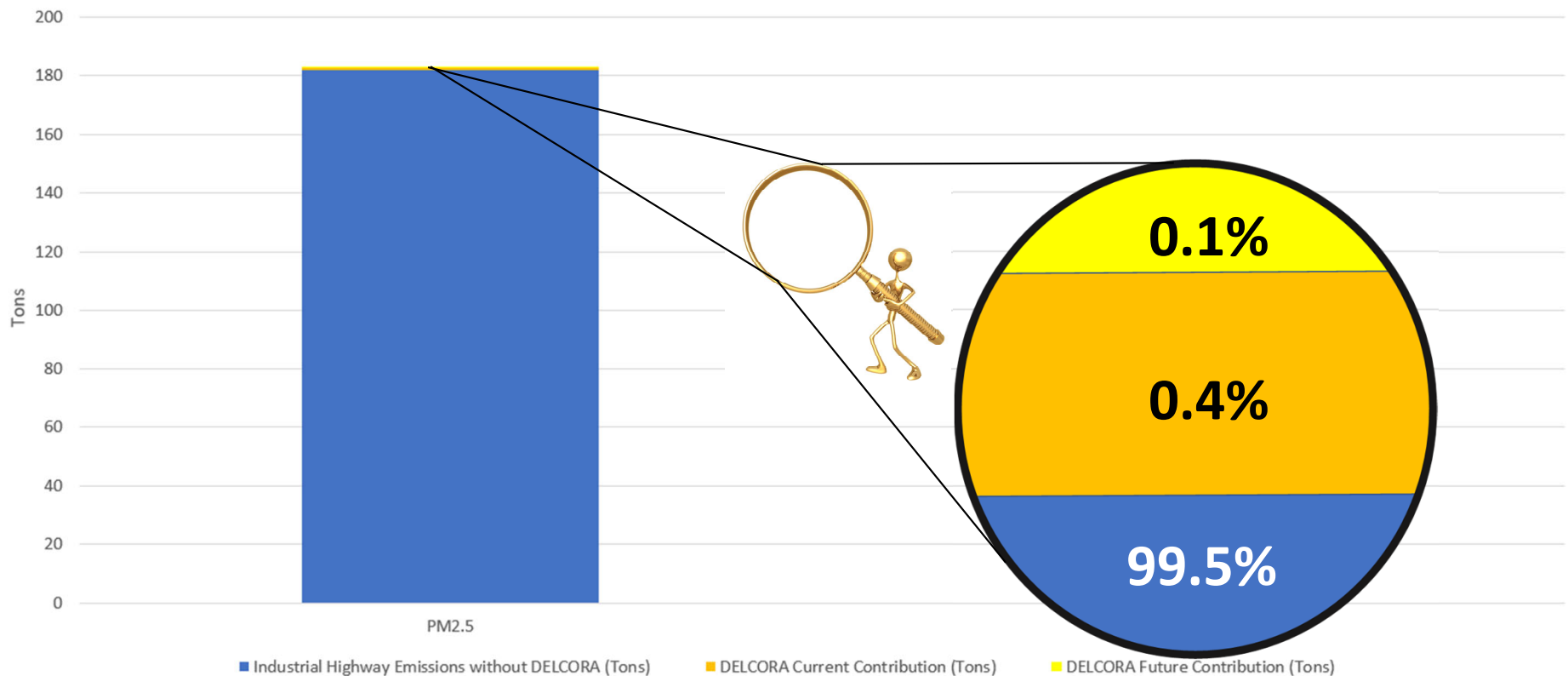
Particulate Matter in tons (1991-2021)



In 2016, DELCORA  
invested \$11.4M in the  
**best available**  
air emissions control  
technology.



# DELCORA's CONTRIBUTION TO TOTAL AIR EMISSIONS along the Industrial Highway (Marcus Hook to PHL Airport)



SOURCE: [http://cedatareporting.pa.gov/reports/powerbi/Public/DEP/AQ/PBI/Air\\_Emissions\\_Report](http://cedatareporting.pa.gov/reports/powerbi/Public/DEP/AQ/PBI/Air_Emissions_Report)

DELCORA



SUMMARY OF ANTICIPATED  
ENVIRONMENTAL BENEFITS & IMPACTS



# WHY SAY YES to the PLAN

Reduce financial impact to Chester Residents

Clean Chester Creeks, Rivers, and Riverfronts

Save money – \$410M

Overflows reduced by over 95%



IMPORTANT CLOSING INFORMATION:  
COMMUNITY ASSISTANCE  
HOW TO CONTACT DELCORA



# FINANCIAL TROUBLES?

We are here to help.

## CUSTOMER ASSISTANCE PROGRAM

**We have a number of programs available to help customers who are having trouble paying their bill. Please call our Customer Service Department to learn more.**



Contact DELCORA's Customer Service Department at 610-876-5526.

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DELCORA





# STAY CONNECTED

We want to hear from you!

- 💧 **Join our new, private Facebook group for residents of Chester**
  - <https://www.facebook.com/groups/delcorachester>
- 💧 **Visit our website and ask a question there**
  - <https://www.delcora.org/contact/contact-us/>
- 💧 **Learn about the Tunnel Project**
  - <https://www.delcora.org/tunnel-project/>
- 💧 **Call Customer Service** at 610-876-5526

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DELCORA



# THANK YOU

*Active engagement and meaningful involvement*