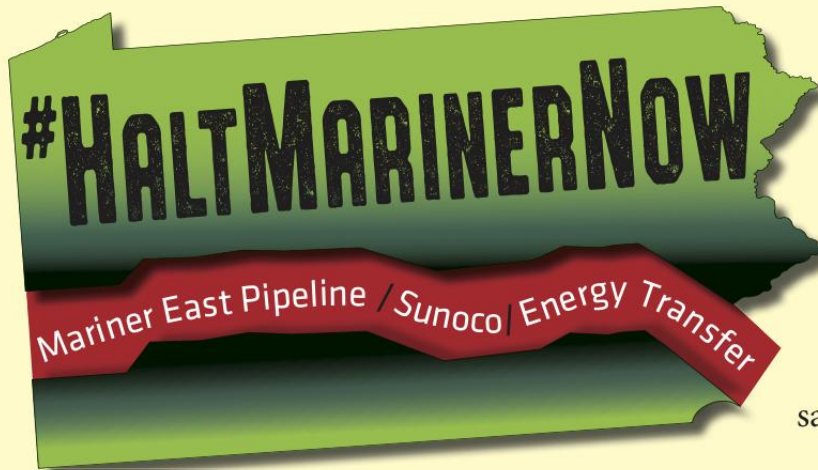


# Are you in the Blast Zone?



A statewide movement  
calling on  
Governor Wolf to

**HALT OPERATION  
AND  
CONSTRUCTION**

of all Mariner Pipelines until  
safety risks are properly mitigated.

## ***Webinar: Are You in the Blast Zone?***

*(What You Need to Know about Mariner East Safety Risks)*

September 25, 2019 • 7-8 pm

Free of charge. Watch and participate online.

*Can't make that date? Recording will be available to watch online after September 25.*

# Welcome to the webinar!



**Ryan Clover**

*Halt the Harm Network  
Operations Team*



**Gillian Graber**

*Executive Director  
Protect PT*

# Background

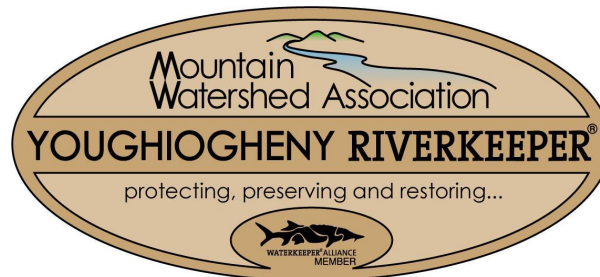
A coalition of groups including Protect PT, Del-Chesco United for Pipeline Safety, Middletown Coalition for Community Safety, Clean Air Council, and Mountain Watershed Association are hosting a webinar for leaders to discuss the #HaltMarinerNow campaign. The campaign aims to engage and educate the public in a campaign to increase pressure and demand that Governor Tom Wolf and the Public Utility Commission (PUC) halt the Mariner East pipeline project.

The operation of Sunoco's Mariner East 1 and construction of Mariner East 2 and 2X pipelines have been plaguing residents across Pennsylvania for years. The construction of these pipelines has resulted in the destruction of private and public property and the environment, while the operation of Mariner East 1 and the "workaround" pipeline are already putting public safety at risk. Despite notices of violation, fines, and injunctions, Sunoco Logistics continues to negatively impact the lives of Pennsylvanians, their safety, property rights, and the environment.

Yet this pipeline has even more far-reaching impacts. The Mariner East pipelines connect fracking operations in Western Pennsylvania with refineries in Eastern Pennsylvania in a "frack to plastic" scheme. Stopping the Mariner East pipelines is about fighting back against the oil and gas industry that is threatening the safety and wellbeing of Pennsylvanians and the planet.



# Who is involved:



#HaltMarinerNow is an coalition effort by the groups Protect PT, Del-Chesco United for Pipeline Safety, Middletown Coalition for Community Safety, Mountain Watershed Association, and Clean Air Council. The project is supported by the Direct Support Fund, which is made possible by the Heinz Endowments and the 11th Hour Project and is a project of the Mountain Watershed Association.







# Presenters & Host:



**George Alexander**

Leadership Team for  
Del-Chesco United for  
Pipeline Safety  
Blog: Dragonpipe Diary  
([www.dragonpipedairy.com](http://www.dragonpipedairy.com))



**Ginny Kerslake**

Founder of West Whiteland Residents for  
Pipeline Safety, Founder and Leadership  
Team of Del-Chesco United for Pipeline  
Safety, Mother, earth scientist, artisan  
entrepreneur, and community leader



**Gillian Graber**  
Executive Director  
Protect PT

**Protect PT**

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OF COMMUNITY SAFETY

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# Are you in the blast zone? What we'll cover...

- Nuts and bolts of Mariner East
- Safety Concerns: why this is Pennsylvania's most dangerous pipeline
- Risk Assessments & what they show
- Cases before the PUC: do we have the pipeline regulations we need?
- What you can do to protect your family and community





## Ginny Kerslake

Founder of West Whiteland Residents for Pipeline Safety, Founder and Leadership Team of Del-Chesco United for Pipeline Safety, Mother, earth scientist, artisan entrepreneur, and community leader

## Presenting on:

- Nuts and Bolts
- How is Mariner Regulated
- Eminent Domain
- Public Utility Formal Complaints



# What is Mariner East?

## A Sunoco/Energy Transfer Project

- ME1 is repurposed 1930s 8" pipeline operating since Q42014
- ME2 and ME2X are 20" and 16" pipelines being constructed
- ME2 "workaround" or "Frankenpipe" is a temporarily cobbled together ME2, ME2X and a 1930s 12" pipeline operating since December 2018

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# Mariner East Route



Mariner East Pipeline Project  Sunoco Logistics

- Proposed ME2 Pipeline
- ME1 Pipeline (Under Construction)
- Existing Third Party Pipeline
- ME1 Pipeline
- SXL Terminal Facilities
- Third Party Facility
- Pennsylvania Propane Delivery
- Marcellus Shale Formation



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# What is Mariner East Transporting?

Highly Volatile Liquids (HVLs), specifically  
Natural Gas Liquids (NGLs):

- Ethane, butane, and propane from fracking
- Liquified under high pressure

Over 700,000 barrels per day



Frack Pad in Western PA



# What is it for?

- Export
- Oversupply in the US
- Used to make plastics overseas
- Not for jobs
  - Most jobs out of state and temporary
  - Only 150-250 permanent jobs

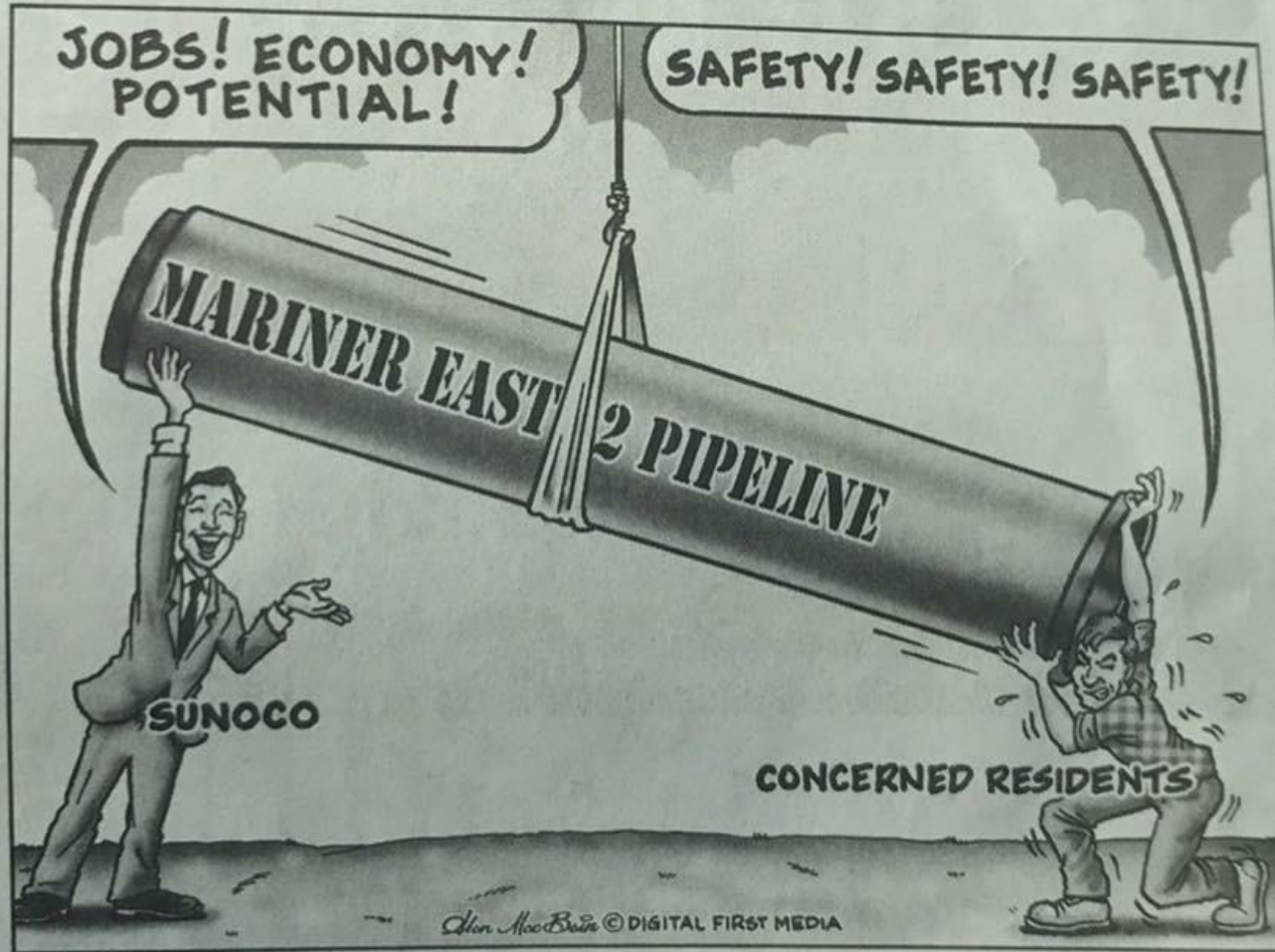


**#HALTMARINERNOW**

Mariner East Pipeline / Sunoco Energy Transfer

## Cartoonist's take

dailylocal.com



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# How is it Regulated?

- It's not.
- No government body has clear authority:

## **PA Department of Environmental Protection (DEP)**

-environmental impacts of construction

## **PA Public Utility Commission (PUC)**

-regulatory oversight once operational  
(ME1, workaround) to enforce PHMSA  
guidelines but none specific to NGLs

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# Who Approved the Siting?

- No one
- Pennsylvania is the only state in the US that has no siting authority for pipeline routing
- No formal approval of the route, only the DEP permits
- PUC has granted Sunoco public utility status
- Sunoco can route Mariner as it pleases





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# Public Utility/Eminent Domain



- Allows corporation to seize property
- Public Utility status reserved for public good/necessities
- ME is an abuse of eminent domain

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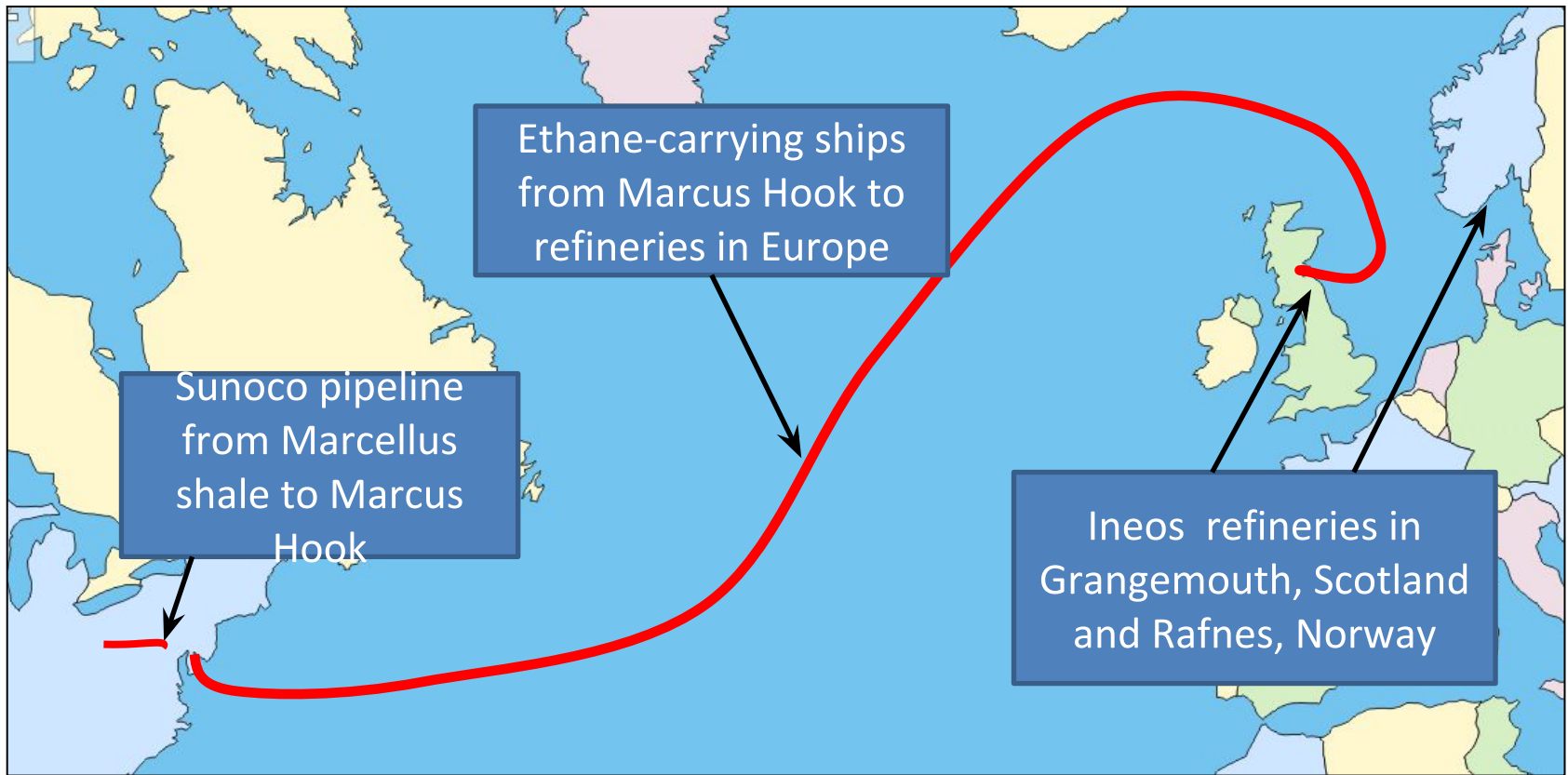
## Presenting on:

- Why is this pipeline is being built?
- What makes it particularly dangerous?
- What are the risks associated with it?



# The Grand Plan:

## Marcellus wells to European plastic



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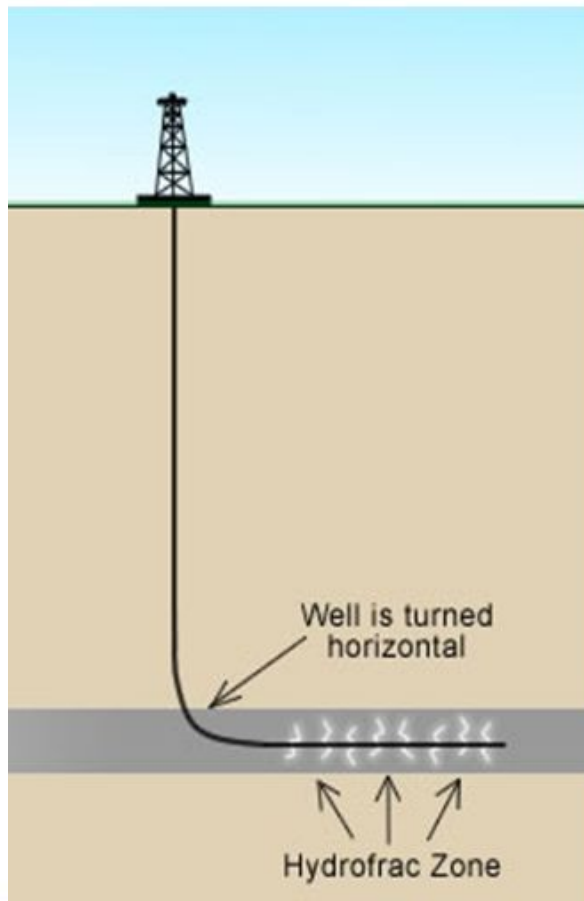
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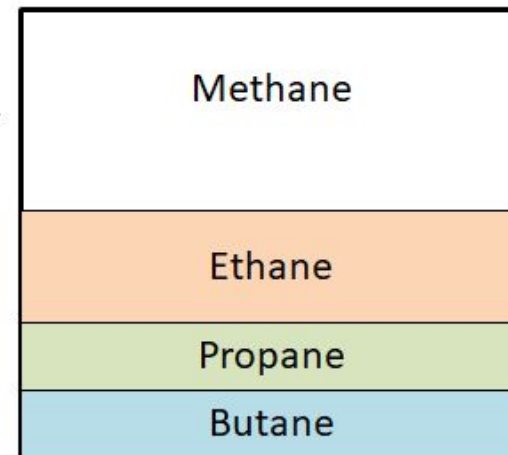
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# How Fracking & NGLs are Connected



Separation



-120 degrees F

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# NGLs are NOT like ordinary natural gas



- Natural gas (methane) is lighter than air. It rises and disperses, like hot steam. An odorant is added.
- NGLs are heavier than air. They stay low and spread, like fog. There is no odorant, and the risk of explosion is far greater.



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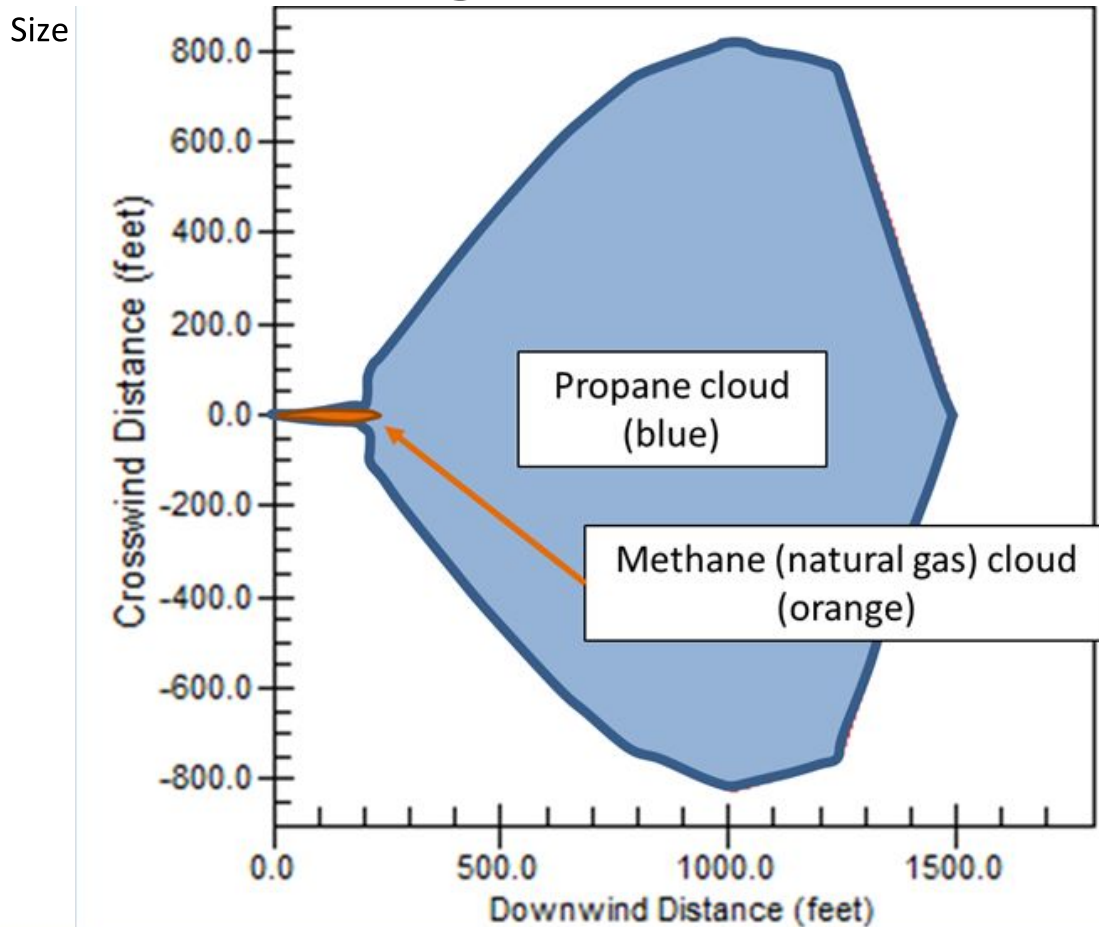
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# Far more dangerous than natural gas



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# No credible plan for warning or evacuation

- Sunoco has no reliable means to detect a leak.
- If a leak is discovered, first responders will establish a perimeter, which they are trained NOT to enter.
- Assuming they get a warning in time, those within the blast zone must self-evacuate on foot (if able) while avoiding ignition sources.

# Isn't it risky? You bet it's risky.

Brenham, TX: 3 killed, 21 injured  
in a sparsely-settled rural area.  
This was ethane.

San Bruno, CA: 8 killed, dozens  
injured in a suburban area. This  
was natural gas.



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# Isn't it risky? You bet it's risky.

Salem Township, the morning of April 29, 2016 a 30-inch natural gas pipeline exploded sending a huge fireball hundreds of feet into the sky and severely injuring a nearby resident.

Photos courtesy of The Trib & Action 4 News



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# Two “Risk Assessments”



- State Senator Dinniman launched Citizens' Risk Assessment effort (January 2018)
  - Funded online through GoFundMe and funds from some municipalities (about \$60,000 raised)
  - The study showed risk of fatality extending more than 2000 feet from the pipeline
- Delaware County Council commissioned a somewhat different one.
  - Showed a much greater range of potential fatality (up to 1.3 miles from the pipeline)

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# Three ways of looking at risk

- **Individual risk:** would I risk buying a house here? Assesses only one person's risk.
- **Societal risk:** can our community tolerate this risk, especially to our most vulnerable? Assesses risk to places where people are gathered.
- **Worst-case risk:** what would we do in case of a catastrophe? Assesses planning of pipeline and planning of emergency response.
- Only individual risk has been assessed so far.

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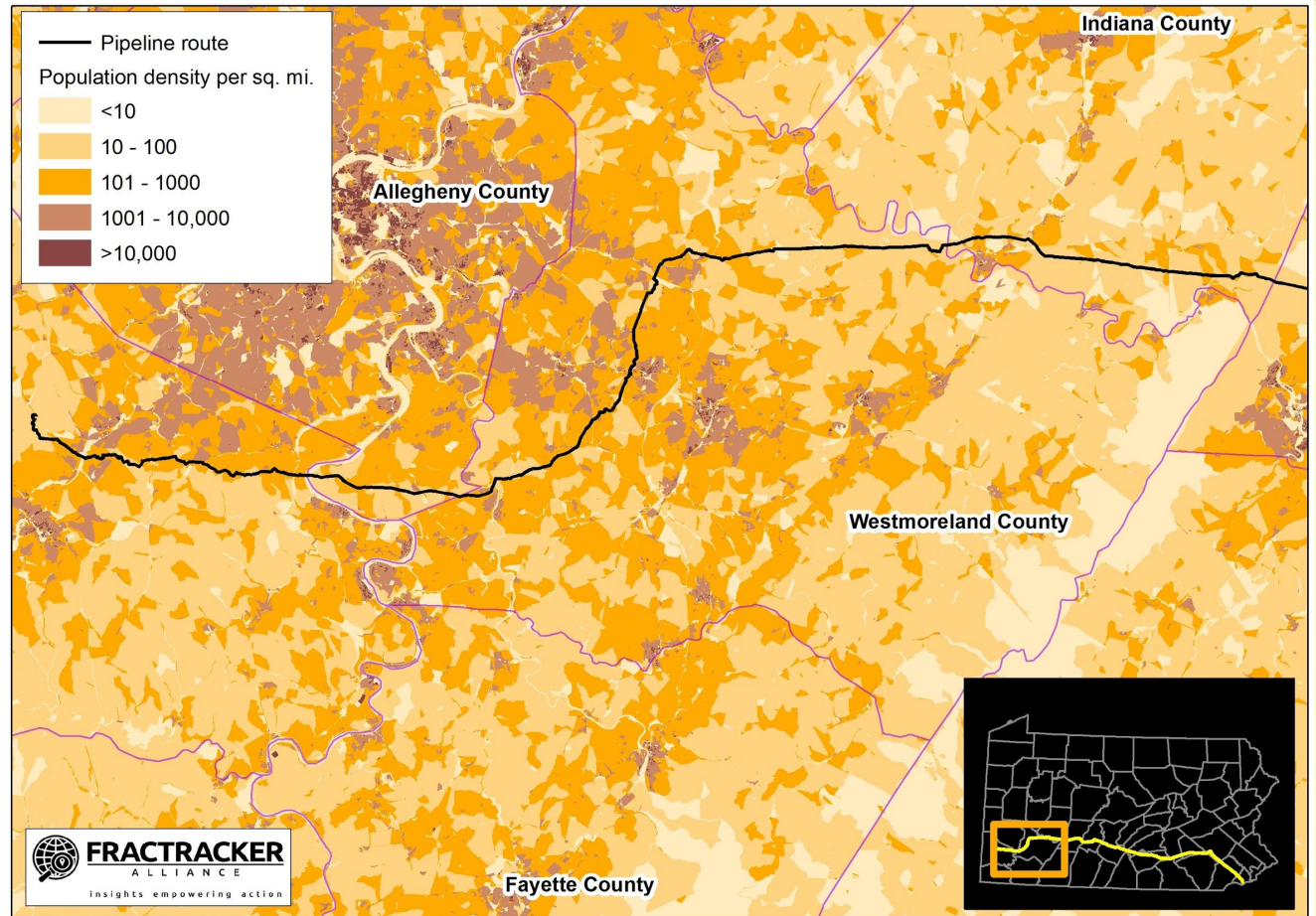
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# Could the route be worse?



All across the state, the route threatens both rural and populated areas.



Population Density along Mariner East 2 Pipeline, Based on Census Block 1 of 4, West to East



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# Much of Mechanicsburg is in the blast zone, including most of the schools





# Case study: Kaohsiung, Taiwan

## July 31, 2014



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# Cases Before the PUC

- “Safety Seven” and others C-2018-3006116
- PUC BIE C-2018-3006534
- Wilmer Baker C-2018-3005025

Use docket # to search at:

[http://www.puc.pa.gov/about\\_puc/search\\_results.aspx](http://www.puc.pa.gov/about_puc/search_results.aspx)

Donate to Safety Seven at:

<https://www.gofundme.com/f/support-the-Safety-7-Halt-Mariner-East>

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# What Can You Do?

- Stay informed and help educate others  
[haltmarinernow.org](http://haltmarinernow.org) & [www.dragonpipediary.com](http://www.dragonpipediary.com)
- Join our ThunderClap tomorrow ([bit.ly/HMNsocal](http://bit.ly/HMNsocal)) and continue conversation on social media groups and public pages.

Email pictures & video to  
[info@haltmarinernow.org](mailto:info@haltmarinernow.org)



# What Can You Do?



Get Connected:

[haltmarinernow.org](http://haltmarinernow.org)

Join a group working  
to protect your  
community or form  
one in your community  
if one does not exist

## Find help near you

Mariner East Groups and Contacts by County A-Z	
Local Groups A - Z	Groups by County
Group Name	Location
Berks Gas Truth	Berks
Clean Air Council	State Resource
Concerned Citizens of Lebanon County	Lebanon
Delaware Riverkeeper	State Resource
DelChesco United	Delaware & Chester
Dragon Pipe Diary	State Resource
East Goshen Safety and Environmental Advocate	Chester
Food and Water Watch	National Org
Goshen United for Public Safety	Chester
Halt The Harm Network	State Resource
Just The Facts Please	State Resource
Lancaster Against Pipelines	Lancaster
Lebanon Pipeline Awareness	Lebanon
Lives on the Line	State Resource
Mariner East: The Series	State Resource
Middletown Coalition for Community Safety	Delaware
Mountain Watershed Association	Westmoreland
Physicians for Social Responsibility Philadelphia	State Resource
Protect Penn Delco	Delaware
Protect PT (Penn-Trafford)	Westmoreland
Resist Mariner East	State Resource
Resist Sunoco PA	State Resource
Sierra Club	National Org
Stop the Mariner East Pipeline	State Resource

## Having a Problem? We Can help!

- 1 Learn how to document a complaint by downloading our resource [How to Document & Report Complaints with Mariner East](#)
- 2 We can help you track any complaint about Mariner East, including impacts on your health and well being. [Click here to get started](#)
- 3 Contact a group near you and share this information with your neighbors and [get a yard sign](#) for your property.

Learn More about [Protecting Your Water and Property from Pipeline Development](#) by download Mountain Watershed Association's resource

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# What Can You Do?



See Something,  
Say Something:

- Stay alert and contact officials if anything is amiss
- Report your complaint on [HaltMarinerNow.org](http://HaltMarinerNow.org)

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## How to Document & Report Problems with Mariner East Pipelines

Residents are the eyes and ears of the community. What you see, hear, smell and feel could be very important signs of a problem. If you see something that might indicate an emergency near the pipeline route - such as a drilling fluid spill, a sinkhole, or heavy erosion that could lead to a landslide - it is important to report those issues to the following:

**Call 911 in case of emergencies. Any suspected leak of a pipeline is an emergency.**

**Notify the Gas Operator. Call the number for the operator if you have it.**

**National Response Center:** 800-424-8802

Be sure to provide your name, address, phone number, date and time of your call and details of what you observed. Make sure to indicate that you would like them to start a formal report and ask for a case number.

<https://www.epa.gov/emergency-response/forms/contact-us-about-emergency-response>

**Pennsylvania Emergency Management Agency (PEMA):** 800-424-7362

**PA DEP Complaint Hotline,** 1-800-541-2050

or file an online complaint by visiting the DEP website:

<https://www.dep.pa.gov/About/Regional/Pages/default.aspx>

Again, provide your name, address, phone number, date and time of your call, and details of what you observed. Ask that an inspector be dispatched to the scene and a copy of the inspection report be provided to you. Make sure to indicate that you would like this to be a **formal complaint** and be sure to follow up with the DEP inspector.

**Find Your County Conservation District:** [https://pacd.org/?page\\_id=59](https://pacd.org/?page_id=59)

You can also log complaints you have made on Halt Mariner Now's website and we will help ensure your complaint is properly handled. <http://bit.ly/mariner-east-complaint>

[www.HaltMarinerNow.org](http://www.HaltMarinerNow.org)

[info@haltmarinernow.org](mailto:info@haltmarinernow.org)

724-392-7023

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# Our Website Tools



#HALTMARINERNOW

Mariner East Pipeline / Sunoco Energy Transfer

A statewide movement calling on Governor Wolf to halt operation and construction of all Mariner Pipelines until safety risks are properly mitigated

HOME

PARTNERING ORGANIZATIONS

RISK ASSESSMENT

GET CONNECTED



Are you at risk from the Mariner East Pipeline Project?

[Register for the webinar](#)

[At Risk Schools and Populations](#)

[DelChesco Risk Assessment](#)

## How to Get Involved

Sign up for our e-newsletter to get updates and stay connected

First Name

Last Name

## What can you do RIGHT now?

Do you want to help us get the word out about the statewide webinar? [Share the link below](#) after you register.

Are you in the blast zone?

Join us September 25th to learn more about the risks associated with the Mariner

 Let's Chat!

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# Get Involved:

- Sign up for the social media ThunderClap Event Tomorrow from 3-5 p.m.  
[bit.ly/HMNsocal](https://bit.ly/HMNsocal)
  - After you sign up, you will be emailed a list of sample posts
- **Stay Connected:** Sign up for email alerts at [haltmarinernow.org](https://haltmarinernow.org)





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#HALTMARINERNOW

Mariner East Pipeline / Sunoco Energy Transfer



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Mariner East Pipeline / Sunoco Energy Transfer



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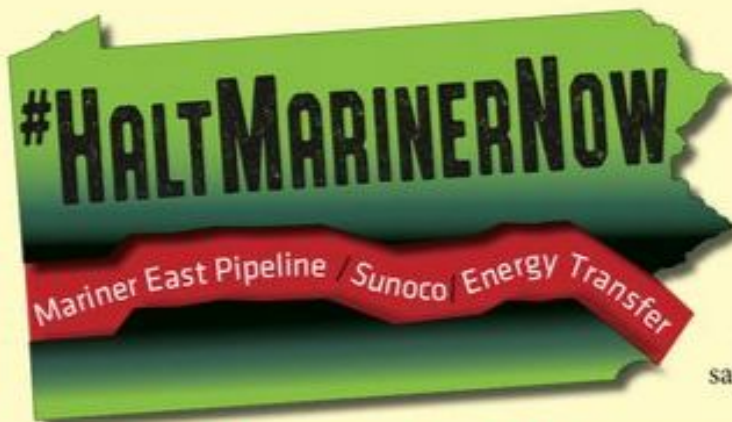


# The Next Webinar

Register: [bit.ly/marinerwebinar3](http://bit.ly/marinerwebinar3)



YOU ARE INVITED  
TO JOIN IN LEARNING ABOUT



A statewide movement  
calling on  
Governor Wolf to  
**HALT OPERATION  
AND  
CONSTRUCTION**  
of all Mariner Pipelines until  
safety risks are properly mitigated.

## *Webinar: Drilling and Spilling*

How Mariner East impacts wetlands,  
waterways and drinking water

October 30, 2019 7-8 pm

**Protect PT**

**MCCS** MIDDLETOWN COALITION  
OF COMMUNITY SAFETY

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# Contacts & Q&A

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AIR  
COUNCIL**



# Thank you!!!

- Remember: Sign up for the ThunderClap
- There will be a recording available on <https://halttheharm.net/>
- Have suggestions for future trainings? [ryan@halttheharm.net](mailto:ryan@halttheharm.net)
- Become A Leader