

MEETING NOTES

PASADENA CITIZENS' ADVISORY COUNCIL

www.pasadenacac.org

Tuesday, April 26, 2022

Revive Church- The Center

The 290th meeting of the Pasadena Citizens' Advisory Council (PCAC) was held on Tuesday, April 26, 2022, at the Revive Church, 1062 Fairmont Parkway. The meeting notes from March 24, 2022, were approved without change. Facilitator Diane Sheridan reviewed the ground rules and agenda, which were accepted as proposed.

ATTENDEES *italicized*

PCAC Members

Andrew Aleman, City of Pasadena OEM
Jed Aplaca, City of Pasadena Parks and Rec.
Ruth Askine
Diane Barnes, CTHS
Raul Camarillo, Harris Co. Pct. 2
Emilio Carmona
Azell Carter, City of Pasadena OEM
Monica De La Portilla
Tammy De Los Santos, City of Pasadena Parks and Rec.
Albert Gonzales
Rick Guerrero, City of Pasadena Neighborhood Network
Mike Jackson
Chad Carson, Economic Alliance
Houston Port Region
Luz Locke
Loretta McCarthy
Lupita Monreal, City of Pasadena Neighborhood Network

Ellis Orozco
Ernesto Paredes
Margie Pena
Brenda Pritchard, City of Pasadena Neighborhood Network
Dominick Rezza
Giovanna Searcy
Leon Searcy
Richard Sims
Sue Sims
Joe Valdivia
Christian Rocha for Christina Womack, Chamber of Commerce
Jack Womack

Support

Diane Sheridan, Facilitator
Tiffany Miller, Secretary

Observers or Resources

Jerry Caraviotis, Harris Co. Pollution Control Services
John Collins

Matthew Giles, State Rep. Mary Ann Perez Office
David Lopez, Pasadena Health Center
Megan Nichols, Galveston Bay Foundation
Kevin Partin
Michelle Partin
Sharlissa Truett-Willis, TCEQ
Blake White, HCOHSEM

CAC Plant Members

Afton Chemical, Maryam Shekari for Hari Sundaram
Air Products, Brian Farhadi
Albemarle, Paul Hernandez for Lisa Fruge
BASF, Brad Hardy for Wendel Langley
Chevron Pasadena Refinery, Rajni Yadav for Matt Postage
Chevron Phillips, Andy Woods
Enterprise Products, Karla Arriaga

Ethyl, Maryam Shekari for Antonio Salinas
Evonik, Juan Soto for Nathan Locklar
Gulf Coast Authority, Denise Ehrlich
INEOS Phenol, Ana Partin for Amy Narvaez
Intercontinental Terminals, _____
KM Export Terminal, Robert Hammons for Mike Dugger
KM Liquids Terminal, Robert Hammons
LyondellBasell Refinery, Greg Nevermann for Clint Titzman, Kara Slaughter
Next Wave Energy, Tim Freiberg for Shane Presley, Jay Mendoza
OxyVinyls, Scott Halbrooks. Liliana Sarpong
Sekisui, Scott Stephens for Jeff Thompson

How Plants Prevent Flooding on and off the Plant Site

Diane Sheridan led a round robin discussion focusing on steps that plants take to prevent and control flooding on their plant site and what they do to prevent their plant from causing flooding on public roads or nearby homes or businesses. The information presented is summarized below.

Afton Chemical, Albemarle, Enterprise Products, and Ethyl operate on the same site.

- The site is situated along the Ship Channel and has both a dike wall and levee. The 20-foot-high levee concrete locking pieces are set in place by a crane before a storm approaches.
- There is no impact to the public from potential flooding from the site.
- Afton Chemical and Ethyl did not experience any supply disruptions during Hurricane Harvey.
- Albemarle mentioned that they do monthly preventative maintenance (PM) on their stormwater pumps.
- Enterprise Products does regular PM on pumps and weekly housekeeping to keep debris from collecting or blocking outfalls. Tank levels are maintained to prevent them from moving in a flood.

Air Products, Evonik, and Sekisui operate on the same site.

- Air Products has several retention ponds; the 800 trees to be planted for a sound barrier may be helpful during a flood event.
- Evonik did have flooding in an administrative building at the edge of the site during Hurricane Harvey. Pumps are at a height where flooding is not a concern. The management team is proactive keeping an eye on potential storms. Runoff from SH 225 drains onto the site.
- Sekisui has not experienced a flood problem or issue since taking over the site in 2009. Flood prevention measures include several drainage ditches, storm water drains to ship channel, and pre-planning during site construction i.e., elevation considerations. If flooding is anticipated, all ditches are sampled and if within permit limits the outfall gates are opened. The wastewater tanks are pumped to low levels if needed to handle floodwaters since all their drains go to that tank.

BASF and OxyVinyls operate on the same site.

- BASF experienced flooding in the Administrative Building during Hurricane Harvey, as the site is lower at that area. The process units did not experience any flooding. The site does monthly housekeeping to keep debris from accumulating and annual cleaning of ditches.
- OxyVinyls experienced three feet of water in the middle of the plant during Hurricane Harvey. Water flows away from the ship channel and pools in the low spot. The site recently cleaned out 40 years of silt from their ditches to help with drainage. A gate system stops storm water from leaving the site.

Chevron Phillips Chemical

- The site has three large retention ponds which are dredged every 3 years to improve capacity. The process units have not flooded. There is no external impact from any possible plant flooding due to the site's location on the ship channel.

Chevron Pasadena Refinery

- The site has a dedicated tank to hold storm water and they do not have any runoff that would have an effect on the community.

Gulf Coast Authority (GCA)

- The site sits higher than the surrounding area and tanks sits above the 100-year flood plain. However, a bridge that is part of the public road leading into their facility floods easily since it is in a low spot. GCA has extra basins to handle excess water from customers during flood events. During Hurricane Harvey they had a loss of power leading to their storm water pumps not working.

INEOS Phenol

- The site does a trash bash twice a month to remove debris. Surge basins and earthen dikes help contain storm water and the water is tested per storm water permits prior to release. The site has approximately 6 million gallons of water storage.

Kinder Morgan Export Terminal (KMET)/ Kinder Morgan Liquids Terminal (KMLT)

- KMET and KMLT are storage facilities, so they can pump storm water into their storage tanks. Leaders at both facilities walk the site daily to ensure that debris is cleaned up. During Hurricane Harvey, 3 empty tanks at the Galena Park site floated around due to a cardboard box blocking the outfall of the diked area. To prevent tanks from moving, water is pumped into tanks to a level based upon the expected storm surge level. The sites do two full hurricane drills per season to verify readiness.

LyondellBasell Houston Refining

- The site follows the same standard procedures as other sites (PM on pumps, etc.). The site can store approximately 100 million gallons of storm water. The water goes into storage, then is tested before release through the outfall, which leads to the ship channel. During Hurricane Harvey, there was a storage building that flooded along with some dock flooding

Next Wave Energy Partners

As the facility is still under construction, Next Wave was invited to discuss the design of their stormwater drainage.

- Primary stormwater runoff is pumped via pipeline to Harris County Flood Control District (HCFCD) ditch on Ethyl Road to reduce the load on local city and private ditches.
- Site is equipped with a series of internal detention ditches and outfalls for additional stormwater management. Stormwater in the Tank Farm area is fully contained and manually drained, allowing it to be drained in such a way to minimize external impacts.
- As required by City of Pasadena, the stormwater system is designed such that the peak flow of stormwater to the ditches will be the same or less than before the project was implemented.

UPDATES

LyondellBasell Houston Refining Announcement on facility closure: Greg Nevermann shared information regarding the announcement that the facility would be ceasing operations effective December 31, 2023. The press release from LyondellBasell can be found [here](#). LyondellBasell's primary products are plastics, and this is the only refinery that the company owns.

Shell Deer Park Chemicals Spring Turnaround Follow up Question:

Diane Sheridan will follow up with Shell Deer Park Chemicals in response to a question about the timing of shift changes during their spring turnaround. (*NOTE:* To reduce traffic, shifts have been staggered with workers arriving or leaving between 3:00 – 8:00 a.m. and 3:00 – 8:00 p.m.)

Upcoming 610 Loop at 225 Closure:

Tiffany Miller will send an email to the whole group regarding the April 29-May 2 closure of 610 Loop/225 for bridge and roadway repair.

FACILITY UPDATE SUMMARY

Acronym List on PCAC website

Plant representatives reviewed highlights of the written reports projected on the screen, and they responded to questions. The update summary was mailed to attendees before the meeting. Direct questions to Diane Sheridan facilitator, dbsfacilitator@gmail.com, 281- 326-5253.

In a Nutshell:

- Updates were received from 18 of 18 plants
- **1** had reportable environmental incident (1 at LyondellBasell Houston Refining)
- **1** had OSHA recordable injuries (2 at Chevron Phillips)
- **16** had neither environmental nor safety incidents

17 plants had no environmental incidents:

- | | | |
|------------------------------|-----------------------------------|------------------------------------|
| 1. Afton Chemicals | 8. Ethyl | |
| 2. Air Products | 9. Evonik | 14. Kinder Morgan Liquids Terminal |
| 3. Albemarle | 10. Gulf Coast Authority | 15. Next Wave Energy Partners |
| 4. BASF | 11. INEOS Phenol | 16. OxyVinyls |
| 5. Chevron Pasadena Refinery | 12. Intercontinental Terminals | 17. Sekisui |
| 6. Chevron Phillips | 13. Kinder Morgan Export Terminal | |
| 7. Enterprise Products | | |

17 plants had no safety incidents:

- | | | |
|------------------------------|-----------------------------------|-------------------------------------|
| 1. Afton Chemicals | 7. Ethyl | 13. Kinder Morgan Liquids Terminal |
| 2. Air Products | 8. Evonik | 14. LyondellBasell Houston Refining |
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| 4. BASF | 10. INEOS Phenol | 16. OxyVinyls |
| 5. Chevron Pasadena Refinery | 11. Intercontinental Terminals | 17. Sekisui |
| 6. Enterprise Products | 12. Kinder Morgan Export Terminal | |

FUTURE PCAC MEETINGS

Boxed Dinner available at 5:30 pm. Meetings are from 6:00 – 7:30 p.m. unless otherwise indicated.

Tuesday, May 24, 2022 – Flood Control Efforts in Pasadena

- City of Pasadena’s Rick Masters will talk about projects underway and planned in the city
- Harris County Flood Control District Pct. 2 Liaison Jeremy Ratcliff will discuss projects underway and planned.

NO MEETINGS IN JUNE OR JULY

Thursday, August 25, 2022 – Flood Control Efforts in Pasadena

- The last of three meetings on flooding will focus on hurricane surge. The Army Corps of Engineers will describe the current plans for this part of the Gulf Coast.
- Members are interested in how plants will be protected from surge, so it does not cause plant events that impact the community and environment. PCAC will ask plants to comment on whether and how the proposed surge suppression projects would help prevent such impacts.

DATES FOR 2022

Tues. Jan. 25
Tues. Feb. 22
Thurs. Mar. 24
Tues. Apr. 26

Tues. May 24
No June or July meetings
Thurs. Aug. 25
Tues. Sept. 27

Tues. Oct. 25
Thurs. Dec. 1 (delayed due to Thanksgiving)
No December meeting

Pasadena Citizen's Advisory Council

How Plants Prevent Flooding on and off the Plant Site

April 26, 2022

What, if anything, confused you?

- Hurricane Drill
- Who is responsible for decision making to initiate plans when there are several plants on one property?
- Floating tanks- contain what? -chemicals, some empty, need filling-procedures for leveling-different sizes
- Nothing. Most plants have similar preparation plans.

What, if anything, concerned you?

- Are pumps above flood/dike levels?
- We talked about proactive process, but what about reactive processes?
- What about redundant power?
- Back up plans for loss of power and a backup plan for the backup plan.
- How do the concrete panels for the levy stay watertight?
- Elevation at BASF

What, if anything, comforted you?

- Like that the plants specialize their own preparation plans with property elevations, etc.
- That everyone had a plan.
- We are taking similar precautions as the rest of the plants
- Everyone is pretty much thinking the same way
- Sharing best practices

Any input on the return to in-person meetings?

- Better interaction than zoom (Mentioned 2 times)
- Like it. It's great! (Mentioned multiple times)
- It is ok
- Prefer Zoom
- Good Food
- Less Chicken Salad (There was about a 3:1 ratio of chicken salad to turkey sandwiches for this meeting)
- Vegetarian option food choice, please

Anything about anything else?

- Hospitals and clinics do disaster readiness more frequently