

TCEQ Registration Form January 12, 2023

PLEASE PRINT	
Name:MiMML	
Mailing Address: 16022 ClearMeadow	
Physical Address (if different):	
City/State: Channelview Zip: 77530	
This information is subject to public disclosure under the Texas Public Information Ac	ct
Email:	
Phone Number: ()	
• Are you here today representing a municipality, legislator, agency, or group? ☐ Yes	□No
If yes, which one?	
☐ Please add me to the mailing list.	
I wish to provide formal <i>ORAL COMMENTS</i> at tonight's public meeting.	
☐ I wish to provide formal WRITTEN COMMENTS at tonight's public meeting. (Written comments may be submitted at any time during the meeting)	

Christina Bourque

From:

PUBCOMMENT-OCC

Sent:

Monday, January 9, 2023 10:14 AM

To:

PUBCOMMENT-OCC2; PUBCOMMENT-OPIC; PUBCOMMENT-ELD; PUBCOMMENT-APD

Subject:

FW: Public comment on Permit Number 83817

From: edwardsantosgarza@gmail.com <edwardsantosgarza@gmail.com>

Sent: Monday, January 9, 2023 7:53 AM

To: PUBCOMMENT-OCC < PUBCOMMENT-OCC@tceq.texas.gov>

Subject: Public comment on Permit Number 83817

REGULATED ENTY NAME LYONDELL CHEMICAL CHANNELVIEW

RN NUMBER: RN100633650

PERMIT NUMBER: 83817

DOCKET NUMBER:

COUNTY: HARRIS

PRINCIPAL NAME: LYONDELL CHEMICAL COMPANY

CN NUMBER: CN600344402

FROM

NAME: MR Edward Santos Garza

EMAIL: edwardsantosgarza@gmail.com

COMPANY:

ADDRESS: 8005 GLENLOCH DR HOUSTON TX 77061-1005

PHONE: 8326461486

FAX:

COMMENTS: As someone who grew up and currently lives in an area of Harris County with extra-polluted air, I oppose the potential amendment to this permit. The people of Channelview have lived with more than enough suffering at the hands of companies such as Lyondell.



TCEQ Registration Form

January 12, 2023

PLEASE	E PRINT			
Name:	PHILIP GLASS			
Mailing	g Address: 16406 LISA DAWAL	A		
Physical	al Address (if different):			
City/Sta	ate: Houstba	Zip: <u>フフ</u> by	9	
	**This information is subject to public disclosure			
Email:	PHILIP GLASS 2350 GMAIL,	COM		
	Number: (346) <u>837-2287</u>			
• Are y	you here today representing a municipality, legi	islator, agency, or group?	□ Yes	□No
It	If yes, which one?			
□ P	Please add me to the mailing list.			
I	wish to provide formal ORAL COMMENTS at to	onight's public meeting.		
	wish to provide formal WRITTEN COMMENTS	at tonight's public meeting	5.	
	(Written comments may be submitted at any ti	me during the meeting)		



TCEQ Registration Form January 12, 2023

	SE PRINT
Name:	: Ding Gatierrez
Mailin	ng Address: 14919 Lofton Dvill
Physic	cal Address (if different):
City/S	State: Channelview zip: Tx 77530
	This information is subject to public disclosure under the Texas Public Information Act
Email:	:
Phone	Number: ()
• Are	e you here today representing a municipality, legislator, agency, or group? ☐ Yes ☐ No If yes, which one?
	Please add me to the mailing list.
	I wish to provide formal ORAL COMMENTS at tonight's public meeting.
	I wish to provide formal WRITTEN COMMENTS at tonight's public meeting.
	(Written comments may be submitted at any time during the meeting)

Debbie Zachary

From:

PUBCOMMENT-OCC

Sent:

Wednesday, July 6, 2022 11:45 AM

To:

PUBCOMMENT-OCC2; PUBCOMMENT-OPIC; PUBCOMMENT-ELD; PUBCOMMENT-APD

Subject:

FW: Public comment on Permit Number 83817

Attachments:

AAH Public Comments - Lyondell Channelview 83817.pdf

From: anthony@airalliancehouston.org <anthony@airalliancehouston.org>

Sent: Wednesday, July 6, 2022 10:42 AM

To: PUBCOMMENT-OCC < PUBCOMMENT-OCC@tceq.texas.gov>

Subject: Public comment on Permit Number 83817

REGULATED ENTY NAME LYONDELL CHEMICAL CHANNELVIEW

RN NUMBER: RN100633650

PERMIT NUMBER: 83817

DOCKET NUMBER:

COUNTY: HARRIS

PRINCIPAL NAME: LYONDELL CHEMICAL COMPANY

CN NUMBER: CN600344402

FROM

NAME: Anthony Peter D'Souza

EMIAIL: anthony@airalliancehouston.org

COMPANY: Air Alliance Houston

ADDRESS: 2520 CAROLINE ST Suite 100

HOUSTON TX 77004-1000

PHONE: 7135899085

FAX:

COMMENTS: Please see our comments in the attached document.



Laurie Gharis

Office of the Chief Clerk

Texas Commission on Environmental Quality

P.O. Box 13087, MC 105

Austin, Texas 78711-3087

RE: Comments on Lyondell Chemical Company Air Quality Permit Number 83817 at 2502 Sheldon Road, Channelview, Harris County, Texas 77530

Dear Texas Commission on Environmental Quality,

On July 21, 2021, Lyondell Chemical Company (Lyondell) (RN100633650, CN600344402) submitted its application to the Texas Commission on Environmental Quality (TCEQ) for amendments to Air Quality Permit Number 83817, which would authorize modification to the Lyondell Chemical Channelview facility located at 2502 Sheldon Rd, Channelview, Harris County, Texas 77530. Air Alliance Houston (AAH) submits these comments in response.

The facility is situated within the Channelview census-designated place in east Harris County – an area already inundated with industrial facilities and other pollution sources. Communities that live in and near these facilities are engulfed with pollution of every kind. As a result, members of these communities face serious health impacts. For example, research by the University of Texas' School of Public Health found that children living within two (2) miles of the Houston Ship Channel (which includes Channelview) have a 56 percent greater chance of

having leukemia than children living farther away as well as other severe health impacts.¹ The Channelview facility itself has a history of noncompliance with permit requirements and unsafe operating conditions as evidenced by the seven (7) Clean Air Act (CAA) enforcement actions it has received over the last five (5) years and the 26 emergency responses since 2015. Moreover, the facility has spent at least two (2) of the last 12 quarters in CAA noncompliance (as of June 28, 2022). Despite the multiple investigations and complaints against it, TCEQ maintains that the facility has a satisfactory compliance score.²

Commenters thus oppose the issuance of these permit modifications for the reasons outlined in this letter.

I. COMMENTERS

Air Alliance Houston (AAH) is a Texas 501(c)(3) non-profit advocacy organization working to reduce the public health impacts of air pollution and advance environmental justice through applied research, education, and advocacy. AAH takes a strong stance against disproportionate exposure to air pollution in overburdened communities of color and lower income by focusing attention on health equity and environmental justice.

II. ENVIRONMENTAL JUSTICE CONCERNS

Lyondell Chemical Company (Lyondell) owns the refinery located at 2502 Sheldon Rd, Channelview, Harris County, Texas 77530 in east Harris County. The facility impacts

¹ K. Walker et al., University of Texas Health Science at Houston, School of Public Health, An investigation of the association between hazardous air pollutants and lymphohematopoietic cancer risk among residents of Harris County, Texas, See electronically at:

https://pdfs.semanticscholar.org/3b67/75f96037b7dd2104a11296784f52d4cddf33.pdf.

² EPA Enforcement and Compliance History Online (ECHO) Search. See electronically at: https://echo.epa.gov/detailed-facility-report?fid=110000463221

³ TCEQ Compliance History Search. See electronically at:

https://www2.tceg.texas.gov/oce/ch/index.cim?fuseaction=main.viewdetails&rid=171263362001309

surrounding communities within the Channelview area, many of which are designated as environmental justice communities and already overburdened with multiple sources of pollution.

A. Factors Defining Local EJ Communities

The U.S. Environmental Protection Agency (EPA) defines "environmental justice (EJ) communities" as communities most impacted by environmental harms and risks, or overburdened communities. Several factors define EJ communities, including where there is: (1) disproportionate exposure to environmental hazards and (2) increased vulnerability to said hazards. The EPA further describes these factors in their definition of an overburdened community: the term describes situations where multiple factors, including both environmental and socioeconomic stressors, may act cumulatively to affect health and the environment and contribute to persistent environmental health disparities.⁴

Lyondell's refinery is located less than one (1) mile from Channelview residences including Harvey Brown Elementary School and only a few miles away from the Houston Ship Channel. EPA has recognized that these predominantly minority and lower-income communities face disproportionately high exposure to risk created by industrial sources of pollution, like Lyondell.⁵ Moreover, a task force report for former Houston Mayor Bill White noted: "Over 20 of the largest industrial sources [of pollution] are located in East Houston. The Port of Houston, and the Ship Channel that feeds it, passes through the middle of this area and generates a variety of hazardous pollutants, adding to those from the nearby industrial sources." These sources include refineries, chemical plants, sewage treatment facilities, hazardous waste (Superfund) sites, and concrete batch plants (see Figure 1).

⁴ United States Environmental protection Agency. See electronically at: https://www.epa.gov/environmentaljustice

⁵ EPA Region 6, Texas Environmental Justice Collaborative Action Plan at 4 (August 3, 2016). See electronically at: https://www.epa.gov/sites/production/files/2016-12/documents/texas_ej_plan_8-3-16_final.pdf.

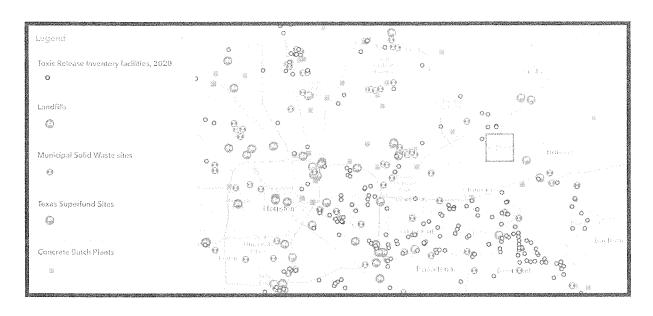


Figure 1. Map of the industrial burden in the community near Lyondell Channelview

B. Profile of the Immediate Surrounding Community

There are nearly 2,400 residences located within only a one (1) mile radius of the Lyondell facility and nearly 22,000 located within a two (2) mile radius. According to EPA's EJSCREEN tool, people living in the two (2) mile radius surrounding the Lyondell facility are in the top 10 percentile in the country for the following EJ criteria: Particulate Matter 2.5 (99%), Ozone (98%), 2017 Diesel Particulate Matter (99%), 2017 Air Toxics Cancer Risk (99%). 2017 Air Toxics Respiratory Hazard Index (99%), Traffic Proximity and Volume (90%), Superfund Proximity (98%), Risk Management Plan (RMP) Facility Proximity (99%), Hazardous Waste Proximity (96%), Underground Storage Tanks (92%), and Wastewater Discharge (95%). This population is predominantly minority (90%) with over a third (37%) of households considered low-income (earning less than \$50,000 a year), over a quarter (28%) of residents having no high school diploma, and 11% being considered linguistically isolated.⁶

⁶ EJSCREEN ACS Summary Report. Available electronically at: https://eiscreen.epa.gov/mapper/

In Channelview specifically, multiple petrochemical facilities surround residential areas. Socioeconomic and environmental stressors further establish that Channelview is an EJ community under the EPA definition. According to the 2020 Census, a large portion of the community is considered a sensitive population with over one-third (34.2%) of residents being children under the age of 18, and 7.3% being seniors aged 65 and older. Additionally, 28% of residents have no high school diploma. Per capita income is \$21,370 with a fifth of residents (20%) falling below the poverty line. The community is predominantly a minority community with residents of color comprising 86.6% of Channelview's population with 72% Hispanic/Latino. Over sixty-three percent (63.3%) of residents speak a language other than English at home, with an overwhelming percentage being Spanish. Residents in Channelview by all definitions live in an EJ community and deserve protection by the TCEQ.

All of the above means this is a permit that involves significant EJ implications and requires particular focus and action by TCEQ to address these concerns. Given that people living near Lyondell's refinery are already overburdened by pollution, vulnerable to health concerns due to age, isolated due to language barriers, and facing more serious barriers to upward mobility than most people living in Texas, the TCEQ must carefully weigh the impacts associated with the proposed expansion project against the burdens it will create.⁸

III. CONCERNS REGARDING THE FACILITY AND ITS HISTORY

Lyondell Chemical Company (Lyondell) owns and operates a petrochemical complex located at 2502 Sheldon Rd. Channelview, Harris County, Texas 77530, which is a major source of hazardous air pollutants and criteria pollutants—including the precursors for ozone formation (NOx and VOC)—located in the Harris County ozone nonattainment area. The complex includes

⁷ United States Census Bureau, Quickfacts, Channelview CDP, Texas. See electronically at: https://www.census.gov/quickfacts/channelviewcdptexas

⁸ See, e.g., 30 Tex. Admin. Code §§ 116.111(a)(2)(A)(ii), 116.150(d)(4).

two large chemical manufacturing facilities and two olefins units that are used to manufacture ethylene, propylene, butadiene, and benzene as well as produce propylene oxide, styrene monomer, and other derivatives and gasoline-blending products. The site also includes the world's largest propylene oxide, tertiary butyl alcohol plant.⁹

A. Lyondell Has A History of Noncompliance

Lyondell has an established history of non-compliance with seven (7) Clean Air Act (CAA) enforcement actions since 2017,¹⁰ 26 emergency responses since 2015,¹¹ and 32 air quality emissions events since 2015.¹² The EPA has now levied over \$22,000 in penalties and fines against Lyondell due to these violations.

1. Emergency Responses and Emission Events

The most recent emergency response was recorded on March 3, 2021.¹³ Several more of these emergency response events have occurred over the past few years. There have been four (4) emergency responses between 2021 and 2022.

The most recent emissions event record lasted twenty-two (22) hours on June 15, 2022, from a pipe leak due to corrosion on the pump discharge line for Tower T-6177. During this emissions event, Lyondell *illegally* released 344.23 pounds of Isobutylene, 21.85 lbs of t-Butyl Alcohol, and several pounds of numerous other hazardous air pollutants including Acetone all in

https://www.lyondellbaseil.com/en/channelview-complex/

https://echo.epa.gov/detailed-facility-report?fid=110000463221

https://www15.tcen.texas.gov/crpub/index.cfm?fuseaction=iwr.emsincdetail&addn_id=478580622008029&re_id=171263362001309

https://www15.tceq.texas.gov/crpub/index.cfm?fuseaction=iwr.eeincdetail&addn_id=478580622008029&re_id=1.71263362001309

https://www15.tceq.texas.gov/crpub/index.cfm?fuseaction=iwr.emsincdetail&addn_id=478580622008029&re_id=171263362001309

⁹ Channelview Complex, LyondellBasell, See electronically at:

¹⁰ EPA Enforcement and Compliance History Online (ECHO) Search. See electronically at:

¹¹TCEQ Emergency Response Report. See electronically at:

¹² TCEQ Air Emissions Event Reports. *See electronically at*:

¹³ TCEQ, Emergency Response Report. See electronically at:

violation of their NSR permit - which did not authorize any emissions of these chemicals.¹⁴ Several more of these emissions violations have occurred over the past year including a process upset lasting 71 hours on March 26, 2021 due to a leak on the bonnet of a valve on an exchanger resulting in permit violations due to emissions of unauthorized pollutants including Propane and Propylene. Thirty-two (32) air quality emission events have been recorded since 2015. Lyondell has been consistently releasing hazardous substances into near-by residential communities.

Moreover, Lyondell has faced five (5) official complaints to TCEQ on issues from emissions, unauthorized releases, and illegal venting, thus highlighting the constant harm and nuisance it causes nearby communities. Lyondell has also disregarded the requirements of its permits, which were created to maintain the intent of the CAA. Lyondell accepts the fines imposed and continues its noncompliance. TCEQ must address this pattern of disregard and noncompliance by Lyondell before approving any additional permit modifications, facility expansions, or emissions increases.

2. 2021 Clean Air Act (CAA) Violations

Lyondell violated the CAA as recently as 2021. According to the EPA and the Department of Justice's settlement with Equistar Chemicals, LLP; LyondellBasell Acetyls, LLC; and Lyondell Chemical Company, the Channelview facility is covered in this settlement. The complaint alleges violations of CAA requirements at Lyondell's flares that resulted in excess emissions of pollutants, including volatile organic compounds (VOCs), and various hazardous

¹⁴ TCEQ. Air Emission Event Report Database Incident 381518. See electronically at:

https://www2.tceg.texas.gov/oce/eer/index.cfm?fuseaction=main.getDetails&target=381518

¹⁵ TCEQ Air Quality Complaints at Lyondell Chemical Company. See electronically at:

https://www15.tceq.texas.gov/crpub/index.cfm?fuseaction=iwr.complincdetail&addn_id=478580622008029&re_id=171263362001309

¹⁶ Equistar Chemicals, LP; LyondellBasell Acetyls, LLC; and Lyondell Chemical Company Clean Air Act Settlement See electronically at:

https://www.epa.gov/enforcement/equistar-chemicals-lp-lyondellbasell-acetyls-llc-and-lyondell-chemical-company-clean#violations

air pollutants (HAPs) including benzene, and climate-change-causing greenhouse gases. The allegations include violations of New Source Review/Prevention of Significant Deterioration (NSR/PSD) and Minor New Source Review, 40 C.F.R. Parts 51 and 52, New Source Performance Standards (NSPS), 40 C.F.R. Part 60, Subparts A and DDD, and various violations under Title V and the Title V permit at Lyondell's facilities. The facility has agreed to make upgrades and perform compliance measures estimated to cost \$50 million to resolve allegations they violated the CAA and state air pollution control laws at six (6) petrochemical manufacturing facilities located in Channelview, Corpus Christi, and LaPorte, Texas. TCEQ must ensure that Lyondell has complied with the terms of this settlement to reduce HAPs before granting its requested modifications.

Additionally, the EPA "identified potential environmental justice concerns at the two Channelview facilities for exposure to particulate matter (2.5 micron), ozone, toxic cancer risk, and respiratory hazard." As previously mentioned, the Channelview facility is situated in communities of color and releases harmful emissions for extended periods. Overburdened communities like Channelview must be protected from unnecessary harm that Lyondell causes. The settlement serves to ensure significant emissions reductions of VOCs, HAPs, and greenhouse gases that the Channelview facilities are exposing community members to. TCEQ should be an active participant in enforcement of this settlement.

B. Lyondell's Risk to Public Health

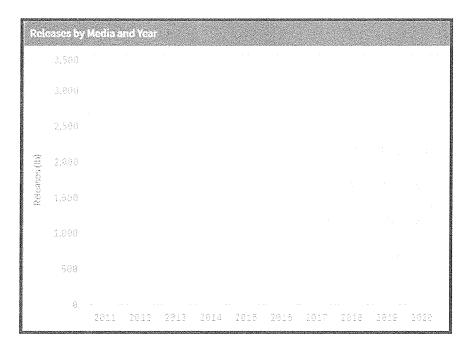
1. Ethylene Oxide (EtO) pollution

¹⁷ United States Environmental Protection Agency. LyondellBasell Companies Agree to Reduce Harmful Air Pollution at Six U.S. Chemical Plants. See electronically at:

https://www.epa.gov/newsreleases/lyondellbasell-companies-agree-reduce-harmful-air-pollution-six-us-chemicalplants

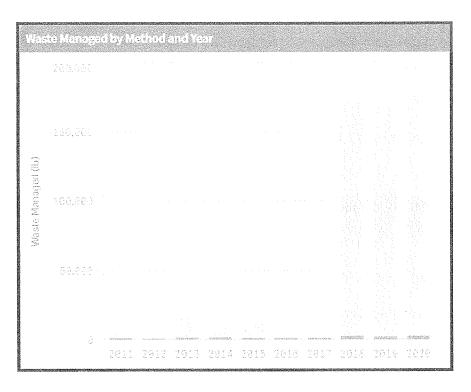
Lyondell's Channelview Complex manufactures Ethylene Oxide (EtO) and uses it to produce derivatives and gasoline-blending products. The site expansions included a 250 million pounds-per-year EtO increase in 2015. According to the EPA Toxic Release Inventory (TRI), the facility is identified as one of the top sources of EtO pollution in Harris County.

According to EPA TRI data on the Lyondell Channelview Complex (TRI ID: 77530RCCHM2502S), the facility released 2,790 lbs of EtO in 2020 alone, entirely into the air. Additionally, the TRI records a total release value of 18,248 lbs of EtO from the plant. This marks a continued trend of drastically increased releases over the last three years: 2018 (3,101 lbs) and 2019 (2,230 lbs). The highest ever recorded values over all reporting years. 18



EtO waste also increased dramatically at Lyondell Channelview over the last three (3) years: 2018 (171,751 lbs), 2019 (169,049 lbs), and 2020 (199,271 lbs) - again, the highest ever recorded values over all reporting years. This indicates increased production and releases as well.

¹⁸ Toxic Release Inventory. EPA TRI Toxics Tracker: https://www.epa.gov/toxics-release-inventory-tri-program



Based on the EPA National Emissions Inventory (NEI) data for the most recent publicly available year (2017), the Lyondell Channelview Complex recorded 7.855 tons (15.710 lbs) of EtO emissions as a point source. Data from the 2017 AirToxScreen (previously NATA) reveal the total cancer risk for the census tract housing the Lyondell Channelview Complex to be 80 in a million. EtO possesses the greatest contribution to this risk at 42.8% of the total. Additionally, census tracts downwind of the plant all possess elevated cancer risks: ranging from 75 to 100 in a million. The total Risk-Screening Environmental Indicators (RSEI) score for the Lyondell Channelview Complex with regards to EtO was 45,983,224 - significantly higher than the medians for industry, county, state, and the country.¹⁹

EPA, as well as the International Agency for Research on Cancer (IARC) and the National Toxicology Program, classify EtO as carcinogenic to humans. Studies of workers show that their exposures to EtO are associated with an increased risk of cancers of the white blood

Air Aliance Houston | 2520 Caroline Street, Suite 100, Houston, TX 77004 [p. 713.528.3779] arialliancehouston.org

¹⁹ EPA Air Toxics Screening Assessment, 2017 AirToxScreen: https://www.epa.gov/AirToxScreen

cells (the infection-fighting cells of the immune system) and an increased risk of breast cancer in females. Evidence in humans indicates that exposure to EtO increases the risk of cancers of the white blood cells, including non-Hodgkin lymphoma, myeloma, and lymphocytic leukemia. Studies also show that long-term exposure to EtO in the community also increases the risk of breast cancer in females. Furthermore, EtO is mutagenic (i.e., it can change the DNA in a cell). Children may be more susceptible to the harmful effects of mutagenic substances.²⁰

An analysis of five (5) years of modeled EPA RSEI data revealed that the Lyondell facility alone contributes about 98.6% of the estimated excess cancer risk within its surrounding areas, which 22 times the EPA's acceptable risk level.²¹ This is no coincidence. As a facility already emitting dangerously high levels of carcinogens and pollutants, it is irresponsible for TCEQ to allow Lyondell to increase its annual emissions into the surrounding community. Furthermore, the routine pattern of flagrant violations, noncompliance, and all other concerns outlined in this section must be resolved before the TCEQ issues any requested amendments.

2. Volatile Organic Compound (VOC) pollution

Lyondell's Channelview Complex continues to remain a significant contributor to Volatile Organic Compound (VOC) pollution within surrounding areas. Over the last five (5) years, the facility's cumulative annual VOC releases have ranged from 279 to 294 tons per year (558,000 - 620,000 lbs) showing little to no signs of significant pollution reduction or emissions mitigation through process improvements.²² Such high levels of hazardous air pollution add

²⁰ Hazardous Air Pollutants: Ethylene Oxide. Frequent Questions: Health Information About Ethylene Oxide. December 2021. See electronically at:

https://www.epa.gov/hazardous-air-pollutants-ethylene-oxide/frequent-questions-health-information-about-ethylene-oxide

²¹ ProPublica. The Most Detailed Map of Cancer Causing Industrial Air Pollution in the U.S. *See electronically at:* https://projects.propublica.org/toxmap/.

²² TCEQ CR Query, Air Emissions Inventory, Lyondell Chemical Channelview. See electronically at: https://www15.tceq.texas.gov/crpub/index.cfm?fuseaction=iwr.pgmdetail&addn_id=811588772009251&disp_aei=Y

considerable burden to the already high levels of adverse health risks within surrounding communities.

VOCs along with NOx, play a major role in the atmospheric reactions that produce ozone, which is the primary constituent of smog. People with lung disease, children, older adults, and active people can be affected when ozone levels are unhealthy. Ground-level ozone exposure is linked to a variety of short-term health problems, including lung irritation and difficulty breathing, as well as long-term problems, such as permanent lung damage from repeated exposure, aggravated asthma, reduced lung capacity, and increased susceptibility to respiratory illnesses such as pneumonia and bronchitis.

Furthermore, acute (short-term) inhalation exposure of humans to VOCs (such as benzene) may cause drowsiness, dizziness, headaches, as well as eye, skin, and respiratory tract irritation, and, at high levels, unconsciousness. Chronic (long-term) inhalation exposure has caused various disorders in the blood, including reduced numbers of red blood cells and anemia in occupational settings. Reproductive effects have been reported for women exposed by inhalation to high levels, and adverse effects on the developing fetus have been observed in animal tests. Increased incidences of leukemia have also been observed in humans occupationally exposed to benzene and similar carcinogenic VOCs.

Cumulative Impacts of Surrounding Facilities on Human Health

As mentioned above, the areas surrounding Lyondell's refinery are communities of color with a large and low-income population that is overburdened by hazardous and other air pollution, including from multiple refineries and petrochemical facilities, sewage treatment facilities, hazardous waste (Superfund) sites, and concrete batch plants (see Figure 1: Map of the industrial burden in communities near Lyondell). Cumulative impacts refer to the total burden —

positive, neutral, or negative – from chemical and non-chemical stressors and their interactions that affect the health, well-being, and quality of life of an individual, community, or population at a given point in time or over a period of time.²³ TCEQ must consider these cumulative health and industrial impacts when approving the Lyondell permit amendment as well as other refinery permits and facility corrective action plans in the immediate area.

IV. CONCLUSION

Air Alliance Houston (AAH) is very concerned about the impacts of the Lyondell Chemical Company (Lyondell) facility on air quality and public health in and around the Channelview, Texas community as well as the greater east Harris County area as a whole. The facility displays a pattern of disregard for the Clean Air Act (CAA) and already exerts a significant pollutive burden on surrounding residents that has resulted in higher cancer risks and adverse health outcomes. Therefore, Commenters request the following:

- TCEQ should deny the permit amendment listed above outright and require a corrective action plan and timeline from Lyondell for how they will reach compliance with current emissions standards, prevent future unauthorized emissions, and provide for the removal/decommissioning of specific facility equipment with relevance to the renewal application.
- TCEQ should require that Lyondell implement additional emission control/reduction measures and technologies given its routine violation of permit limits and air quality standards as outlined above and also to reduce the likely higher-than-reported actual emissions of various pollutants.

²³ United States Environmental Protection Agency. 2022. *Cumulative Impacts*. See electronically at: https://www.epa.gov/system/files/documents/2022-01/ord-cumulative-impacts-white-paper-externalreviewdraft-508-tagged-0.pdf

TCEQ must consider environmental justice concerns during decision-making
on this and future permit applications from Lyondell due to the cumulative
impact of environmental and health harms caused by the operation of this
facility.

Should there be any questions about these comments, please feel free to contact the undersigned representative at any time. We appreciate your urgent attention and response to these matters.

Respectfully submitted,

/s/

Jennifer M. Hadayia, MPA

Executive Director

Air Alliance Houston

2520 Caroline St.

Houston, TX 77004

(713) 539-1894

jennifer@airalliancehouston.org

Christina Bourque

From:

PUBCOMMENT-OCC

Sent:

Thursday, January 12, 2023 5:24 PM

To:

PUBCOMMENT-OCC2; PUBCOMMENT-OPIC; PUBCOMMENT-ELD; PUBCOMMENT-APD

Subject:

FW: Public comment on Permit Number 83817

Attachments:

AAH Public Comments - Lyondell Public Meeting 1-12-232.pdf

From: jennifer@airalliancehouston.org < jennifer@airalliancehouston.org >

Sent: Thursday, January 12, 2023 2:10 PM

To: PUBCOMMENT-OCC < PUBCOMMENT-OCC@tceq.texas.gov>

Subject: Public comment on Permit Number 83817

REGULATED ENTY NAME LYONDELL CHEMICAL CHANNELVIEW

RN NUMBER: RN100633650

PERMIT NUMBER: 83817

DOCKET NUMBER:

COUNTY: HARRIS

PRINCIPAL NAME: LYONDELL CHEMICAL COMPANY

CN NUMBER: CN600344402

FROM

NAME: Jennifer Hadayia

EMAIL: jennifer@airalliancehouston.org

COMPANY: Air Alliance Houston

ADDRESS: 2520 CAROLINE ST STE 100

HOUSTON TX 77004-1000

PHONE: 7135391894

FAX:

COMMENTS: Please see attached comments



January 12, 2022

Laurie Gharis

Office of the Chief Clerk

Texas Commission on Environmental Quality (TCEQ)

P.O. Box 13087, MC 105

Austin, Texas 78711-3087

Electronic submission via: http://www14.tceq.texas.gov/epic/eComment/

RE: Lyondell Chemical Company Air Quality Permit Number 83817 at 2502 Sheldon

Road, Channelview, Harris County, Texas 77530

To Whom it May Concern:

Air Alliance Houston (AAH) submitted written comments in response to the permit modification request referenced above from Lyondell Chemical Company on July 6, 2022. We are pleased that the Texas Commission on Environmental Quality (TCEQ) is holding a Public Meeting on this permit on January 12, 2022. Public Meetings allow for impacted residents to speak to and hear directly from both the facility and TCEQ about air quality and safety concerns in their neighborhoods.

In response to the Public Meeting and additional Comment Period, we have summarized here our main concerns and recommendations related to this permit modification:

- 1. The rationale for and impact of the modifications requested in the facility's permit application are unclear at best. Before TCEQ approves this permit application and the modifications it contains, we ask that they provide answers to the following *in plainlanguage* so local residents are fully informed of what the requested permit modifications will do and how they will impact their air quality and health:
 - a. What will the permit modification do in terms of individual unit and total facility emissions limits compared to permit allowances?
 - b. Why is the facility seeking these changes?

- c. There was a heavy flaring event visible from this facility less than a week ago. How will this permit modification affect allowable flaring emission rates related to start-up, shut-down, and maintenance events?
- d. Where can the community find the plain-language explanations for this permit modification request?
- 2. According to the Toxic Release Inventory (TRI), this Lyondell facility is one of the top sources of ethylene oxide pollution in Harris County, and this pollution has been increasing year-after-year. An analysis of five years of risk data show the Lyondell facility alone is responsible for 98.6% of the estimated excess cancer risk within the surrounding areas. Census tracts downwind of the plant all have elevated cancer risk. The most recent total Risk-Screening Environmental Indicators (RSEI) score for the Lyondell facility for ethylene oxide was significantly higher than the median score for industry and for the county, state, and the country. We are deeply concerned that a facility's RSEI score can be so high without any significant action being taken by state regulators. Before TCEQ renews any permits or approves a permit modification for this facility, we ask that TCEQ conduct a thorough investigation into levels of carcinogen pollution at this facility and mandate a Corrective Action Plan for reaching compliance with current emissions standards and preventing future exceedances.
- 3. The Lyondell facility has a history of Clean Air Act (CAA) non-compliance and emergency events including:
 - a. 32 emissions events since 2015.
 - b. 26 emergency responses since 2015.
 - c. 7 formal enforcement actions since 2017; and
 - d. 5 formal complaints for excess emissions, unauthorized releases, and illegal venting.

The Environmental Protection Agency (EPA) has levied over \$22,000 in penalties and fines for these violations. Lyondell is also bound to a \$50 million agreement with EPA (2021) in response to violations of virtually all state and federal air pollution control laws at its six Texas-area plants (including the Channelview facility). Before TCEQ renews any permits or approves their modification for this facility, they should act as true regulators and require Lyondell to come into compliance with current state and federal clean air laws by requiring:

- a. A public Corrective Action Plan for reaching compliance with *current* emissions standards and preventing future excess emissions, unauthorized releases, and illegal venting; and
- b. Completion of the \$50 million of mandated upgrades and other compliance measures agreed to in response to EPA agreement (2021) outlining violations of New Source Review/Prevention of Significant Deterioration (NSR/PSD), Minor New Source Review, 40 C.F.R. Parts 51 and 52, New Source Performance Standards (NSPS), 40 C.F.R. Part 60, Subparts A and DDD, and Title V permit. Overburdened communities like Channelview must be protected from the unnecessary harms caused by the Lyondell facility. This settlement is intended to reduce exposure, and TCEQ should be an active participant in its enforcement.
- 4. The approval of this permit will allow continued air pollution impacts to a community that is overburdened by multiple air pollution sources, including from refineries, chemical plants, sewage treatment facilities, and hazardous waste (Superfund) sites (See Figure 1).

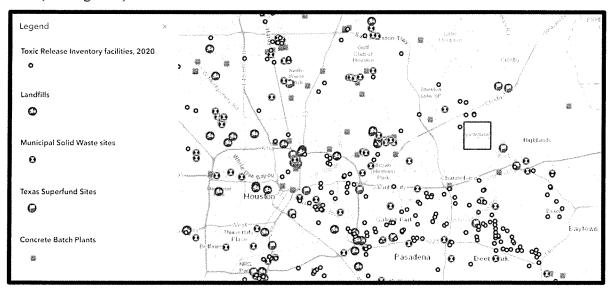


Figure 1. Map of the industrial burden in the community near Lyondell Channelview

Of great concern, the Lyondell facility is less than one mile from 2,400 Channelview residences including Harvey Brown Elementary School. According to EJSCREEN, people living in the two mile radius surrounding this facility are in the top 10 percentile for virtually every possible metric for environmental harm, including Particulate Matter (99%), Ozone (98%), Diesel Particulate Matter (99%), Air Toxics Cancer Risk (99%), Air Toxics Respiratory Hazard Index (99%), Traffic Proximity and Volume (90%), Superfund Proximity (98%), Risk Management Plan (RMP) Facility Proximity (99%), Hazardous

Waste Proximity (96%), Underground Storage Tanks (92%), and Wastewater Discharge (95%). This area is predominantly minority (90%), low-income (37% earning less than \$50,000 a year), and linguistically isolated (11%). This is a permit that involves significant environmental justice considerations; therefore, TCEQ must carefully weigh the facility's requests against the burdens it will create to public and environmental health. Without this careful analysis, TCEQ is once again expecting communities of color and lower-income to bear the burden of industrial harms. The environmental justice concerns in Channelview are reason alone for TCEQ to do everything in its power to strengthen this permit application and examine the requested modification closely.

We appreciate this additional opportunity to make recommendations to reduce the public health impacts of air pollution and to advance environmental justice in Houston/Harris County. If you have questions about these comments, please feel free to contact us at any time.

Respectfully submitted,

Jennifer Hadayia Jennifer M. Hadayia, MPA

Executive Director

Air Alliance Houston

2520 Caroline St.

Houston, TX 77004

(713) 539-1894

jennifer@airalliancehouston.org

4

TCEQ Registration Form January 12, 2023

PLEASE PRINT
Name: Madeleine Kimmel
Mailing Address: 3913 Ran Dr
Physical Address (if different):
City/State: Dickinson /TX Zip: 77539
This information is subject to public disclosure under the Texas Public Information Act Email:
Phone Number: (281) 520 1885
• Are you here today representing a municipality, legislator, agency, or group? ☐ Yes ☐ No
If yes, which one?
☐ Please add me to the mailing list.
I wish to provide formal ORAL COMMENTS at tonight's public meeting.
☑ I wish to provide formal WRITTEN COMMENTS at tonight's public meeting.
(Written comments may be submitted at any time during the meeting)

Christina Bourque

From:

PUBCOMMENT-OCC

Sent:

Friday, January 13, 2023 10:28 AM

To:

PUBCOMMENT-WQ; PUBCOMMENT-ELD; PUBCOMMENT-OCC2; PUBCOMMENT-OPIC

Subject:

FW: Public comment on Permit Number 83817

From: mak22@hampshire.edu <mak22@hampshire.edu>

Sent: Thursday, January 12, 2023 5:55 PM

To: PUBCOMMENT-OCC < PUBCOMMENT-OCC@tceq.texas.gov>

Subject: Public comment on Permit Number 83817

REGULATED ENTY NAME LYONDELL CHEMICAL CHANNELVIEW

RN NUMBER: RN100633650

PERMIT NUMBER: 83817

DOCKET NUMBER:

COUNTY: HARRIS

PRINCIPAL NAME: LYONDELL CHEMICAL COMPANY

CN NUMBER: CN600344402

FROM

NAME: Madeleine Kimmel

EMAIL: mak22@hampshire.edu

COMPANY:

ADDRESS: 3913 RAU DR DICKINSON TX 77539-6120

PHONE: 2815201855

FAX:

COMMENTS: To Chief Clerk Gharis, and to all for whom this letter is pertinent: My name is Madeleine Kimmel, and I am a Houston resident writing to oppose the proposed amendment to Lyondell's Air Quality Permit. I am not a scientist, a chemical engineer, or otherwise an expert in air quality or environmental law, but even I can see that such an amendment would be disastrous. It should be no surprise to those who have been paying attention to the news and the general state of the world that we, as human beings, have not been taking care of our planet. But rather than speak of

this mistreatment in broad terms, allow me to state the facts of this situation: According to the Texas Commission on Environmental Quality, Lyondell Chemical Company's proposed amendment to the Air Quality Permit Number 83817 would allow the emission of "carbon monoxide, hazardous air pollutants, nitrogen oxides, organic compounds, [and] particulate matter including particulate matter with diameters of 10 microns or less and 2.5 microns or less and sulfur dioxide." If the amendment were to come into fruition, these substances would be released within as little as six miles of Channelview, a Houston town comprised of over 40,000 men, women, and children. The air in Channelview would become more polluted with gases and substances that could have adverse effects on the health and mortality of those living there. I am pleading those with enough authority to do so to rescind this amendment and reevaluate where Lyondell Chemical stands, whether it be willing to adjust their company practices to reduce the harm they pose to the environment, or if they wish to become yet another example of large corporations' continual failure to protect human lives and the natural world in their methods of production. I hope that Lyondell will ruminate on these words, and the protests of other habitants of Houston and this planet, before making any rash decisions. Thank you, Madeleine Kimmel

Christina Bourque

From:

PUBCOMMENT-OCC

Sent:

Wednesday, January 11, 2023 11:37 AM

To:

PUBCOMMENT-OCC2; PUBCOMMENT-OPIC; PUBCOMMENT-ELD; PUBCOMMENT-APD

Subject:

FW: Comments re. Permit Number 83817 (LYONDELL CHEMICAL CHANNELVIEW /

LYONDELL CHEMICAL COMPANY, CN600344402)

From: CHIEFCLK <chiefclk@tceq.texas.gov> Sent: Wednesday, January 11, 2023 8:48 AM

To: PUBCOMMENT-OCC < PUBCOMMENT-OCC@tceq.texas.gov>

Subject: FW: Comments re. Permit Number 83817 (LYONDELL CHEMICAL CHANNELVIEW / LYONDELL CHEMICAL

COMPANY, CN600344402)

From: David Jens Thomas Pedersen <djtpedersen@gmail.com>

Sent: Tuesday, January 10, 2023 7:19 PM **To:** CHIEFCLK <chiefclk@tceq.texas.gov>

Subject: Comments re. Permit Number 83817 (LYONDELL CHEMICAL CHANNELVIEW / LYONDELL CHEMICAL COMPANY,

CN600344402)

Dear Clerk.

On behalf of Air Alliance Houston and its members and supporters, I would like to object to the issuance of the proposed permit (TCEQ #83817) that would authorize modifications to Lyondell Chemical Company's Channelview Facilities. The area in which the regulated facility-in-question is located is already heavily polluted (e.g. exceeding the federal ozone standard) and has a large number of BIPOC individuals residing within it, raising environmental-justice issues.

Granting the proposed permit would only further the pollution instead of addressing it, and that is simply not okay. The people of Houston have suffered enough from bad air and deserve better.

Please deny the permit. Thank you.

Regards,

David Pedersen

Traditional unceded WSÁNEĆ territory (Saanichton, B.C., Canada)

Online @FedUpWithBadAir

Douglas

TCEQ Registration Form

January 12, 2023

PLEASE PRINT
Name: Dauglas Joyce Stewart Mailing Address: 16916 Shady Lave - Channely air Tx
Mailing Address: 16916 Shady LANE - Channely in Tx
Physical Address (if different):
City/State: Channeluja Tx Zip: 77530
This information is subject to public disclosure under the Texas Public Information Act
Email: Doug @ SE. Services
· ·
Phone Number: (781) 862-9769
• Are you here today representing a municipality, legislator, agency, or group? ☐ Yes ☐ No
If yes, which one?
Please add me to the mailing list.
☑ I wish to provide formal ORAL COMMENTS at tonight's public meeting.
A T Wish to provide format ONAL COMMENTS at tonight a public meeting.
☐ I wish to provide formal WRITTEN COMMENTS at tonight's public meeting.
(Written comments may be submitted at any time during the meeting)



TCEQ Registration Form

January 12, 2023

<u>Lyondell Chemical Company</u> <u>Proposed Amendment to Air Quality Permit No. 83817</u>

PLEASE PRINT
Name: Carolyn Stone
Name: Carolyn Stone Mailing Address: 318 Lake Si'de Dr.
Physical Address (if different):
City/State: Channelview Zip: 77530
This information is subject to public disclosure under the Texas Public Information Act
Email: <u>C.H.I.C.77530@gmail.com</u>
Phone Number: (281) 452-0733
• Are you here today representing a municipality, legislator, agency, or group? Tyes \(\text{No}\) If yes, which one? Channelwies Health & Improvement Chalitio
Please add me to the mailing list.
I wish to provide formal ORAL COMMENTS at tonight's public meeting.
☐ I wish to provide formal WRITTEN COMMENTS at tonight's public meeting.
(Written comments may be submitted at any time during the meeting)

Please give this form to the person at the information table. Thank you.



TCEQ Registration Form January 12, 2023

PLEASE PRINT	
Name: Alondra Torres	
Mailing Address: 1535 4 Bedford Glen Dr	
Physical Address (if different):	
City/State: Channel view, 1x Zip: 77075	
This information is subject to public disclosure under the Texas Public Information Act	
Email:	
Phone Number: ()	
• Are you here today representing a municipality, legislator, agency, or group? ☐ Yes ☐ No	
If yes, which one?	
☐ Please add me to the mailing list.	
I wish to provide formal ORAL COMMENTS at tonight's public meeting.	
☐ I wish to provide formal WRITTEN COMMENTS at tonight's public meeting.	
(Written comments may be submitted at any time during the meeting)	



TCEQ Registration Form

January 12, 2023

PLEASE PRINT
Name: Lucia Urreta
Name: Lucia Urreta Mailing Address: 547 South second Street
Physical Address (if different):
City/State: Bellaire TX zip: 77401
This information is subject to public disclosure under the Texas Public Information Act Email: [UCIOUCS @ MO]. COM
Phone Number: (332) 888 203
• Are you here today representing a municipality, legislator, agency, or group? Yes No If yes, which one?
Please add me to the mailing list.
I wish to provide formal ORAL COMMENTS at tonight's public meeting.
☐ I wish to provide formal WRITTEN COMMENTS at tonight's public meeting. (Written comments may be submitted at any time during the meeting)

Christina Bourque

From:

PUBCOMMENT-OCC

Sent:

Wednesday, January 11, 2023 11:33 AM

To:

PUBCOMMENT-OCC2; PUBCOMMENT-OPIC; PUBCOMMENT-ELD; PUBCOMMENT-APD

Subject:

FW: Public comment on Permit Number 83817

From: luciaucs@gmail.com < luciaucs@gmail.com >

Sent: Tuesday, January 10, 2023 8:02 PM

To: PUBCOMMENT-OCC < PUBCOMMENT-OCC@tceq.texas.gov>

Subject: Public comment on Permit Number 83817

REGULATED ENTY NAME LYONDELL CHEMICAL CHANNELVIEW

RN NUMBER: RN100633650

PERMIT NUMBER: 83817

DOCKET NUMBER:

COUNTY: HARRIS

PRINCIPAL NAME: LYONDELL CHEMICAL COMPANY

CN NUMBER: CN600344402

FROM

NAME: Lucia Urreta

EMAIL: luciaucs@gmail.com

COMPANY:

ADDRESS: 547 S 2ND ST BELLAIRE TX 77401-5048

PHONE: 8328882103

FAX:

COMMENTS: Dear Chief Clerk Gharis, My name is Lucia Urreta, and I am writing in opposition to the proposed amendment to Lyondell's Air Quality Permit. As someone who was born and raised in Houston, it is unnerving that regulations on the emissions of carcinogens and toxic chemicals could be loosened. The permit states that carbon monoxide and nitrogen oxides, among other compounds would be released by the plant, and these compounds create serious damage to the cell, especially nitrogen oxides which have been shown to be able to alter DNA. The Lyondell

plant is responsible for a 1 km radius cancer cluster around the plant where emissions of organic compounds such as ethylene oxide create a cancer risk of up to 22 times the EPA's acceptable limit according to a ProPublica report. Not only is the air harmful, but Channelview borders the Houston Ship Channel. A 2019 investigation by the Army Corps of Engineers showed that the water in the Ship Channel contained 40 ug/kg of PAHs, a type of carcinogenic compound. This concentration is over 10k times more than what is found in the Suez Canal, another major shipping route (Wietzoreck et al 2022) and is proven to be hazardous to human health (Yang et al 2014). Channelview is a majority Latino city (71% according to the 2020 census) and as the daughter of Colombian immigrants, it hurts to see people who could share my same culture have their health be disregarded like this. The data in the previous paragraph is not just chemistry and numbers, it translates to a cancer diagnosis for a family that most likely cannot afford it, it translates to families losing a parent or sibling too early, it translates to countless tears and lost hope. I hope that the TCEQ and Lyondell choose to not be complicit in more suffering. I propose that the TCEQ deny the proposed amendment, and establish funds towards cleaning up pollution along Channelview. A loss and damage fund, similar to that created during COP 27 should be established by the government of Texas to properly clean up air and water pollution and compensate families that have lost loved ones to pollution related cancers and diseases. There should also be a meeting with government officials, oncologists, company executives, environmental chemists and Channelview community members to establish guidelines that would benefit community members as well as the Gulf ecosystem. The health of people must be paramount to any money, as you cannot put a price tag on someone's life and health. Thank you for your time, Lucia Urreta Member of the United Nations Youth Constituency on Climate Change