



South Coast Air Quality Management District

21865 Copley Drive, Diamond Bar, CA 91765-4178
(909) 396-2000 • www.aqmd.gov

LOCAL GOVERNMENT & SMALL BUSINESS ASSISTANCE ADVISORY GROUP MEETING

Advisory Group Members

Mayor Pro Tempore Ben Benoit, LGSBA Chairman (Board Member)
Supervisor Janice Rutherford (Board Member)
Felipe Aguirre
Mayor Rachelle Arizmendi, City of Sierra Madre
Paul Avila, P.B.A. & Associates
Geoffrey Blake, Metal Finishers of Southern California
Todd Campbell, Clean Energy
LaVaughn Daniel, DancoEN
John DeWitt, JE DeWitt, Inc.
Bill LaMarr, California Small Business Alliance
Rita Loof, RadTech International
Eddie Marquez, Roofing Contractors Association
David Rothbart, Los Angeles County Sanitation Districts

Friday, April 9, 2021 ♦ 11:30 a.m.

Pursuant to Governor Newsom's Executive Orders N-25-20 (March 12, 2020) and N-29-20 (March 17, 2020), the South Coast AQMD Local Government & Small Business Advisory Group meeting will only be conducted via video conferencing and by telephone. Please follow the instructions below to join the meeting remotely.

INSTRUCTIONS FOR ELECTRONIC PARTICIPATION AT BOTTOM OF AGENDA

Join Zoom Webinar Meeting – from PC or Laptop
<https://scagmd.zoom.us/j/92459924491>

Zoom Webinar ID: 924 5992 4491 (applies to all)

Teleconference Dial In
+1 669 900 6833

One tap mobile
+16699006833, 92459924491#

Audience will be allowed to provide public comment through telephone or Zoom connection during public comment period.

PUBLIC COMMENT WILL STILL BE TAKEN

AGENDA

Members of the public may address this body concerning any agenda item before or during consideration of that item (Gov't. Code Section 54954.3(a)). All agendas for regular meetings are posted at South Coast AQMD Headquarters, 21865 Copley Drive, Diamond Bar, California, at least 72 hours in advance of the regular meeting. Speakers may be limited to three (3) minutes each.

CALL TO ORDER

ACTION ITEMS (Items 1 through 3):

1. Call to Order/Opening Remarks
(No Motion Required)
Mayor Pro Tem. Ben Benoit
Committee Chair
2. Approval of March 12, 2021 Meeting Minutes
(Motion Required)
[Attachment 1]
Mayor Pro Tem. Ben Benoit
Committee Chair
3. Review of Follow-Up/Action Items
(No Motion Required)
Staff will review the follow-up/action items identified in the previous meeting.
Derrick J. Alatorre
Deputy Executive Officer
Legislative, Public Affairs & Media

DISCUSSION ITEMS (Items 4 through 6):

4. The California Environmental Quality Act (CEQA) and South Coast Air Quality Management District's (South Coast AQMD) Role
Staff will provide an overview of CEQA and information on the South Coast AQMD's CEQA-Intergovernmental Review Program and activities.
(No Motion Required)
[Attachment 2]
Lijin Sun
Program Supervisor
Planning, Rule Development & Area Sources
5. Update on Technology Advancement Office Clean Fuels Program, 2020 Annual Report and 2021 Plan
Staff's presentation will describe the Clean Fuels Program, show what was accomplished in 2020 and outline what is planned for 2021.
(No Motion Required)
[Attachment 3]
Joseph Impullitti
Technology Demonstration Manager
Science & Technology Advancement
6. Update on Refinery and Community Air Monitoring
Pursuant to South Coast AQMD Rule 1180, refinery fenceline and community air monitoring commenced in Spring 2020. Staff will provide an update on the implementation of the Rule and an overview of the first year of air monitoring.
(No Motion Required)
[Attachment 4]
Olga Pikelnaya
Program Supervisor
Science & Technology Advancement

WRITTEN REPORT:

7. Monthly Report on Small Business Assistance Activities
Summary of assistance and outreach activities conducted by South Coast AQMD's Small Business Assistance Office for March 2021.
(No Motion Required)
[Attachment 5]

All

OTHER MATTERS:

8. Other Business
Any member of this body, or its staff, on his or her own initiative or in response to questions posed by the public, may ask a question for clarification, may make a brief announcement or report on his or her own activities, provide a reference to staff regarding factual information, request staff to report back at a subsequent meeting concerning any matter, or may take action to direct staff to place a matter of business on a future agenda. (Gov't. Code Section 54954.2)
9. Public Comment Period
At the end of the regular meeting agenda, an opportunity is provided for the public to speak on any subject within the Local Government and Small Business Assistance Committee's authority that is not on the agenda. Speakers may be limited to three (3) minutes each.
10. **Next Meeting Date** - Friday, May 14, 2021 at 11:30 a.m.

ADJOURNMENT

Document Availability

All documents (i) constituting non-exempt public records, (ii) relating to an item on an agenda for a regular meeting, and (iii) having been distributed to at least a majority of the Committee after the agenda is posted, are available by contacting Van Doan at (909) 396-3117 or send the request to kdoan@aqmd.gov.

Americans with Disabilities Act and Language Accessibility

Disability and language-related accommodations can be requested to allow participation in the Local Government and Small Business Assistance Advisory Group meeting. The agenda will be made available, upon request, in appropriate alternative formats to assist persons with a disability (Gov't Code Section 54954.2(a)). In addition, other documents may be requested in alternative formats and languages. Any disability or language-related accommodation must be requested as soon as practicable. Requests will be accommodated unless providing the accommodation would result in a fundamental alteration or undue burden to the South Coast AQMD. Please contact Van Doan at (909) 396-3117 from 7:00 a.m. to 5:30 p.m., Tuesday through Friday, or send the request to kdoan@aqmd.gov.

INSTRUCTIONS FOR ELECTRONIC PARTICIPATION

Instructions for Participating in a Virtual Meeting as an Attendee

As an attendee, you will have the opportunity to virtually raise your hand and provide public comment.

Before joining the call, please silence your other communication devices such as your cell or desk phone. This will prevent any feedback or interruptions during the meeting.

Please note: During the meeting, all participants will be placed on Mute by the host. You will not be able to mute or unmute your lines manually.

After each agenda item, the Chair will announce public comment.

A countdown timer will be displayed on the screen for each public comment.
If interpretation is needed, more time will be allotted.

Once you raise your hand to provide public comment, your name will be added to the speaker list. Your name will be called when it is your turn to comment. The host will then unmute your line.

Directions for Video ZOOM on a DESKTOP/LAPTOP:

- If you would like to make a public comment, please click on the **“Participants”** button on the bottom of the screen.
- A list of participants will appear on the right side of the screen. At the bottom of the list, please click on the grey **“Raise Hand”** button.
- This will signal to the host that you would like to provide a public comment and you will be added to the list.

Directions for Video Zoom on a SMARTPHONE:

- If you would like to make a public comment, please click on the **“Participants”** button on the bottom of your screen.
- A new screen will pop up with the list of participants. Look for the **“Raise Hand”** button on the screen and click the button.
- This will signal to the host that you would like to provide a public comment and you will be added to the list.

Directions for TELEPHONE line only:

- If you would like to make public comment, please **dial *9** on your keypad to signal that you would like to comment



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DRAFT

LOCAL GOVERNMENT & SMALL BUSINESS ASSISTANCE ADVISORY GROUP FRIDAY, MARCH 12, 2021 MEETING MINUTES

MEMBERS PRESENT:

Mayor Pro Tempore Ben Benoit, LGSBA Chairman (Board Member)
Supervisor Janice Rutherford (Board Member)
Felipe Aguirre
Mayor Rachelle Arizmendi, City of Sierra Madre
Paul Avila, P.B.A. & Associates
Geoffrey Blake, Metal Finishers of Southern California
LaVaughn Daniel, DancoEN
John DeWitt, JE DeWitt, Inc.
Bill LaMarr, California Small Business Alliance
Rita Loof, RadTech International
Eddie Marquez, Roofing Contractors Association

MEMBERS ABSENT:

Todd Campbell, Clean Energy
David Rothbart, Los Angeles County Sanitation Districts

OTHERS PRESENT:

Mark Abramowitz
Thomas Gross, Board Member Consultant (*Benoit*)
Debra Mendelsohn, Board Member Consultant (*Rutherford*)
Dan McGivney, SoCal Gas
Mark Taylor, Board Member Consultant (*Rutherford*)
Ruthanne Taylor-Berger, Board Member Consultant (*Benoit*)
Ross Zelen, Board Member Consultant (*Kracov*)

SOUTH COAST AQMD STAFF:

Jill Whynot, Chief Operating Officer
Derrick Alatorre, Deputy Executive Officer
Victor Yip, Assistant Deputy Executive Officer
Daphne Hsu, Senior Deputy District Counsel
Mark Henninger, Information Technology Manager
Michael Morris, Planning & Rules Manager
Al Baez, Program Supervisor
Uyen-Uyen Vo, Program Supervisor
Anthony Tang, Information Technology Supervisor
Paul Wright, Senior Information Technology Specialist

Bahareh Farahani, Senior Air Quality Engineer
Van Doan, Air Quality Specialist
Stacy Day, Legislative Assistant

Agenda Item #1 – Call to Order/Opening Remarks

Chair Ben Benoit called the meeting to order at 11:32 a.m.

Agenda Item #2 – Approval of February 12, 2021 Meeting Minutes

Chair Benoit called for approval of the February 12, 2021 meeting minutes. Mr. Bill LaMarr commented that Michael Regan was appointed Administrator of the United States Environmental Protection Agency (U.S. EPA), which was mentioned in the minutes. The minutes were then approved unanimously.

Agenda Item #3 – Review of Follow-Up/Action Items

No follow-up or action items.

Agenda Item #4 – Update on Best Available Control Technology (BACT) Guidelines

Mr. Al Baez provided an update on the Best Available Control Technologies (BACT) Guidelines approved by the Governing Board on February 2021.

Ms. Rita Loof commented that although electron beam and ultraviolet (EB/UV) coatings are high cost, they become cost-effective in the long term as they contain 100% solids. Ms. Loof then asked if there is a process for South Coast Air Quality Management District (South Coast AQMD) to relay information and findings to U.S. EPA. Mr. Baez replied that there are periodic meetings with both California Air Resources Board (CARB) and U.S. EPA. South Coast AQMD has been working with CARB to establish the BACT and Best Available Retrofit Control Technology (BARCT) clearinghouse under the Assembly Bill (AB) 617 program. Additionally, U.S. EPA has its own BACT/BARCT and Lowest Achievable Emission Rate (LAER) clearinghouse. South Coast AQMD continues to work with both agencies and will be providing them with BACT determinations for major and minor sources in the future.

Mr. LaMarr stated that business industry representatives expressed concern at a recent CARB meeting where there was discussion of Air Toxic Control Measures (ATCM) and the transition from hexavalent chromium (Cr(VI)) to trivalent chromium (Cr(III)) and inquired if trivalent chromium would be considered BACT soon. Mr. LaMarr asked if this could be addressed through rule amendments, to which Mr. Baez replied yes.

Mr. Paul Avila referenced the guitar manufacturer in Corona and asked if the apparatus for clean air is for both fiberglass and oils. Mr. Baez said that facility manufactures wood guitars and was not aware of any fiberglass operations.

Ms. Loof said that facility added a UV coater to the existing system, which is vented to the thermal oxidizer.

Agenda Item #5 – Overview of Adopted Rule 1407.1: Control of Toxic Air Contaminant Emissions from Chromium Alloy Melting Operations

Ms. Uyen-Uyen Vo provided an overview on recently adopted Rule 1407.1, which applies to chromium metal melting operations.

Agenda Item #6 – Monthly Report on Small Business Assistance Activities

No comments.

Agenda Item #7 – Other Business

Mr. LaMarr asked about the results of the Multiple Air Toxics Exposure Study V (MATES V). Mr. Alatorre stated that staff will email the Advisory Group with the status of MATES V.

Action item #1: Email the Advisory Group with the status of MATES V.

Mr. Avila referenced the Coalition for Clean Air program allowing funding of up to \$8,000 for low or zero emissions cars and asked if it is a grant or a loan and how would one qualify. Mr. Alatorre stated that CARB's Enhanced Fleet Modernization Program, which is South Coast AQMD's Replace Your Ride Program, is a grant and eligibility is dependent on income and requires scrapping of a qualifying older vehicle.

Ms. Loof requested a follow-up on South Coast AQMD's permitting requirements for facilities using hybrid coating systems, where a UV coater is added to a solvent-based coating system and vented to an afterburner.

Follow-up Item: Provide Ms. Loof with an update on South Coast AQMD's permitting requirements for hybrid coating systems vented to an afterburner.

Agenda Item #8 – Public Comment

No comments.

Agenda Item #9 – Next Meeting Date

The next regular Local Government & Small Business Assistance (LGSBA) Advisory Group meeting is scheduled for Friday, April 9, 2021 at 11:30 a.m.

Mr. John DeWitt asked about in-person meetings. Chair Benoit stated it depends on spacing and there may some hybrid solutions and requested that staff provide the status.

Action item #2: Provide the Advisory Group with an update on future in-person LGSBA meetings.

Adjournment

The meeting adjourned at 12:11 p.m.

The California Environmental Quality Act (CEQA) and South Coast AQMD's Roles

Local Government & Small Business Assistance Advisory Group
April 9, 2021

Lijin Sun, Program Supervisor
CEQA-Intergovernmental Review Program
Planning, Rule Development & Area Sources



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WHAT IS CEQA?

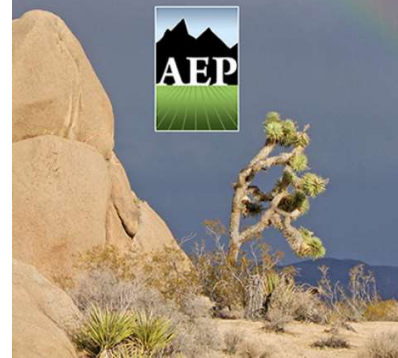
- California Environmental Quality Act (CEQA)
Adopted by the California Legislature in 1970
- Codified in Public Resources Code Sections 21000 et seq.
- The Legislature declared it is the policy of the state to “[e]nsure that the long-term protection of the environment, consistent with the provision of a decent home and suitable living environment for every Californian, shall be the guiding criterion in public decisions.” (Pub. Res. Code Section 21001(d))



Association of Environmental Professionals

2021 CEQA

California Environmental Quality Act
Statute & Guidelines



Source https://www.califnep.org/docs/CEQA_Handbook_2021.pdf

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PURPOSE OF CEQA

- Inform government decision makers and the public of the potential environmental impacts
- Identify & disclose significant environmental effects of projects or actions of public agencies by the Lead Agency
- Mitigate significant environmental effects, when feasible
- Avoid significant environmental effects, when feasible (e.g. by providing a reasonable range of feasible alternatives)
- Balance with other public interests, and disclose why a project is approved notwithstanding its unavoidable, significant environmental impacts
- Disclose to the public why a project was approved



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WHEN DOES CEQA APPLY?

- Government activities undertaken or funded by a public agency
- Private activities that require a public agency's discretionary approval
- Discretionary: the exercise of judgement or deliberation
- CEQA project is an activity which may cause either a direct physical change in the environment, or a reasonably foreseeable indirect physical change in the environment
- Examples of CEQA Projects:
 - Land use projects – residential, retail (air permits not typically required)
 - Industrial – utilities, gas stations (air permits required)
 - Plans – general plans, master plans, Air Quality Management Plans
 - Regulatory – rules, regulations



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CEQA REVIEW

- When a discretionary project is being considered, determine if any CEQA exemption applies
 - Statutory Exemptions
 - Categorical Exemptions
- If not, an Initial Study is typically prepared to determine if the project qualifies for
 - Negative Declaration because the project could not have a significant effect on the environment
 - Mitigated Negative Declaration because the project could not have a significant effect on the environment after mitigation measures are applied
 - Environmental Impact Report because the project may have a significant effect on the environment



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WHAT IS INCLUDED IN CEQA ANALYSIS?

- Project Description
- Establish a Baseline
- Determine the impacts of the project compared to baseline
- Do the incremental impacts of the project exceed a significance threshold?
- If so, are there mitigation measures and/or alternatives that reduce or avoid the significant adverse environmental effects?
- If there are any remaining significant adverse environmental effects, are there other benefits of the project that outweigh the adverse environmental impacts?

■ 19 environmental topic areas

Aesthetics	Hydrology and Water Quality
Agriculture & Forestry Resources	Land Use and Planning
Air Quality	Mineral Resources
Biological Resources	Noise
Cultural Resources	Population and Housing
Energy	Public Services
Geology and Soils	Recreation
Greenhouse Gas Emissions	Transportation
Hazards and Hazardous Materials	Tribal Cultural Resources
	Utilities and Service Systems



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CEQA GUIDELINES APPENDIX G



■ CEQA Guidelines Checklist – Air Quality:

- Conflict with or obstruct implementation of the applicable air quality plan?
- Result in a cumulatively considerable net increase of any criteria pollutant?
- Expose sensitive receptors to substantial pollutant concentrations?
- Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?

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SOUTH COAST AQMD'S AIR QUALITY SIGNIFICANCE THRESHOLDS

Mass Daily Thresholds			Ambient Air Quality Standards for Criteria Pollutants	
Pollutant	Construction	Operation	NO2 1-hour average annual arithmetic mean	South Coast AQMD is in attainment; project is significant if it causes or contributes to an exceedance of the following attainment standards: 0.18 ppm (state) 0.03 ppm (state) and 0.0534 ppm (federal)
NOx	100 lbs/day	55 lbs/day	PM10 24-hour average annual average	10.4 µg/m ³ (construction)* & 2.5 µg/m ³ (operation) 1.0 µg/m ³
VOC	75 lbs/day	55 lbs/day	PM2.5 24-hour average	10.4 µg/m ³ (construction) & 2.5 µg/m ³ (operation)
PM10	150 lbs/day	150 lbs/day	SO2 1-hour average 24-hour average	0.25 ppm (state) & 0.075 ppm (federal – 99 th percentile) 0.04 ppm (state)
PM2.5	55 lbs/day	55 lbs/day	Sulfate 24-hour average	25 µg/m ³ (state)
SOx	150 lbs/day	150 lbs/day	CO	South Coast AQMD is in attainment; project is significant if it causes or contributes to an exceedance of the following attainment standards: 20 ppm (state) and 35 ppm (federal) 9.0 ppm (state/federal)
CO	550 lbs/day	550 lbs/day	Lead 30-day Average Rolling 3-month average	1.5 µg/m ³ (state) 0.15 µg/m ³ (federal)
Lead	3 lbs/day	3 lbs/day		
Toxic Air Contaminants (TACs), Odor, and GHG Thresholds				
TACs (including carcinogens and non-carcinogens)	Maximum Incremental Cancer Risk ≥ 10 in 1 million Cancer Burden > 0.5 excess cancer cases (in areas ≥ 1 in 1 million) Chronic & Acute Hazard Index ≥ 1.0 (project increment)			
Odor	Project creates an odor nuisance pursuant to South Coast AQMD Rule 402			
GHG	10,000 MT/yr CO2eq for industrial facilities			



Source: <http://www.aqmd.gov/docs/default-source/ceqa/handbook/scaqmd-air-quality-significance-thresholds.pdf>

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CEQA AIR QUALITY ANALYSIS

- Includes the project's air quality impacts from:
 - Construction generated by construction equipment
 - Operation generated by stationary equipment, area sources (e.g., coatings), and vehicular trips
- **California Emissions Estimator Model (CalEEMod)** used to estimate regional emissions from typical land use projects
- Mass look-up tables or project-specific dispersion modeling used to estimate localized impacts
- Projects that generate air toxics emissions should prepare a health risk assessment to analyze health risks
- Compare the project's impacts to South Coast AQMD's regional and localized CEQA significance thresholds
- If air quality impacts are significant, mitigation measures must be included to reduce impacts

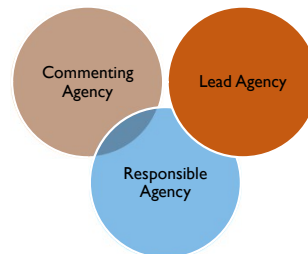


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SOUTH COAST AQMD'S ROLES UNDER CEQA

- Lead Agency
 - Rule projects and Air Quality Management Plans (AQMPs)
 - South Coast AQMD permits where no land use approval is needed
- Responsible Agency
 - Another public agency is CEQA lead agency
 - South Coast AQMD permits are required for the project
- Commenting Agency
 - Another public agency is CEQA lead agency
 - South Coast AQMD permits are typically not required for the project
 - No land use and approval authority over project



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CEQA COMMENTING AGENCY

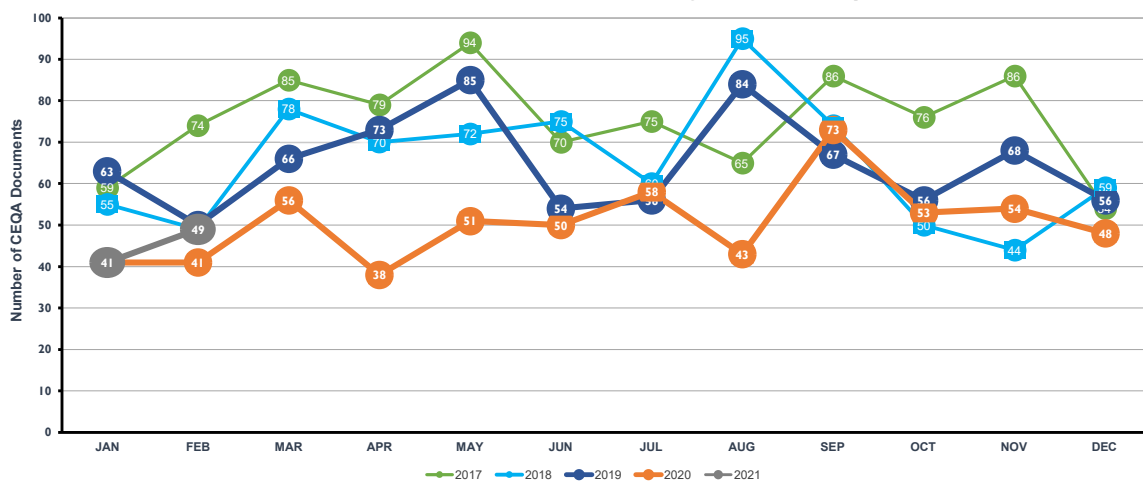
- Intergovernmental Review (IGR) Program
- Review air quality analysis, health risk assessment (HRA), and greenhouse gas emissions analysis in CEQA documents prepared by other public agencies to ensure:
 - Air quality impacts are adequately identified and analyzed
 - Mitigation is applied to minimize significant adverse air quality impacts, if any
- May prepare comments relative to air quality impacts and recommend mitigation measures, as necessary
- South Coast AQMD should be identified as a Responsible Agency in CEQA documents if implementation of the project or components of the project requires a permit from South Coast AQMD



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South Coast AQMD's CEQA-IGR Program Activity: 2017-2021



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RESOURCES

- South Coast AQMD CEQA main page: <http://www.aqmd.gov/home/rules-compliance/ceqa>
- South Coast AQMD CEQA documents for regulatory projects: <http://www.aqmd.gov/home/library/documents-support-material/lead-agency-scaqmd-projects>
- South Coast AQMD CEQA documents for permit projects: <http://www.aqmd.gov/home/research/documents-reports/lead-agency-permit-projects>
- South Coast AQMD staff's comment letters: <http://www.aqmd.gov/home/rules-compliance/ceqa/commenting-agency/comment-letters-year-2021>
- Sign up to receive CEQA updates: <http://www.aqmd.gov/sign-up>



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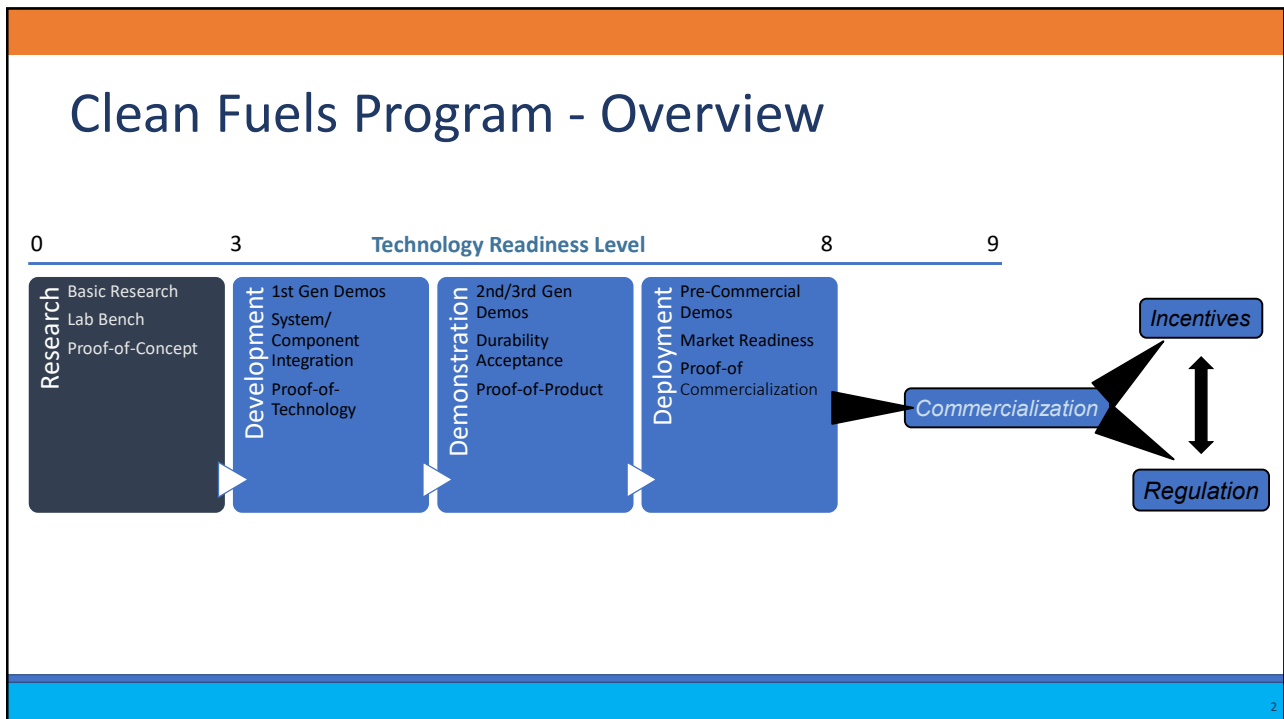
THANK YOU.
Lijin Sun, Program Supervisor
CEQA-IGR
(909) 396-3308, lsun@aqmd.gov

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Background

2020 Annual Report and 2021 Plan Update

- Annual Report on Clean Fuels Program (HSC 40448.5.1)
- Technology Advancement Plan (Update) (HSC 40448.5)
- 2021 Plan Update (draft) submitted to Technology Committee October 16, 2020
- Annual public hearing to approve Annual Report and adopt (final) Plan Update
- Submit to Legislature by March 31 every year

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Input and Feedback

- Advisory group meetings
 - September 2020 and February 2021
 - Technology Advancement/Clean Fuels
 - Invited technical experts
- Meetings - agencies, industry groups, technology providers and other stakeholders
- Symposia and conferences
 - Hydrogen and Fuel Cells for Freight Workshop in March 2020
 - ACT Virtual Event Series from August through November 2020
 - DOE Annual Merit Reviews (May & June 2020)
- Clean tech partnerships
 - VELOZ
 - California Fuel Cell Partnership
 - California Hydrogen Business Council



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Clean Fuels Program-Core Technologies

- Hydrogen/Fuel Cell Technologies and Infrastructure
- Engine Systems/Technologies (ultra-low emission NG HDVs)
- Electric/Hybrid Technologies and Infrastructure
- Fueling Infrastructure and Deployment (NG/RNG)
- Stationary Clean Fuel Technologies
- Fuels/Emissions Studies
- Emission Control Technologies
- Health Impacts Studies
- Technology Assessment/Transfer and Outreach



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2020 – Key Funding Partners

Total = \$24.8M



Targeted Airshed – CATI - DERA

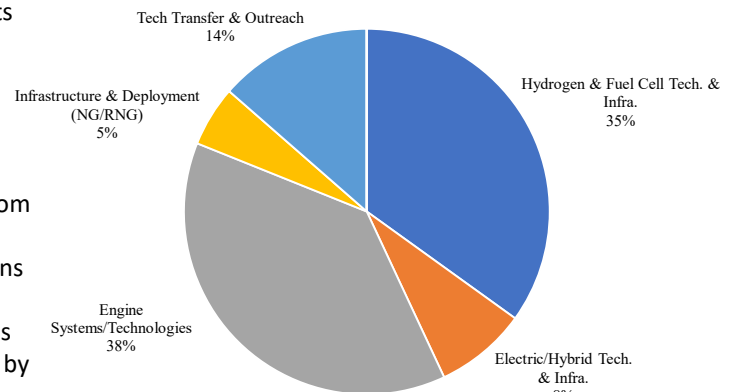


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CY 2020 Accomplishments

- Clean Fuels Program executed 24 new projects or studies and modified 11 continuing contracts
- Sponsored research, development, demonstration and deployment (RD³) projects
 - Technology assessment and transfer contracts for alternative and clean fuel technologies
- Funded \$4.1M, with total project costs of \$28.9M
 - \$28.9M includes coordinated funding from other governmental agencies, private sector, academia and research institutions
 - The \$4.1M includes approximately \$500,000 recognized into the Clean Fuels Fund to facilitate project administration by the Clean Fuels Program

Distribution of Executed Contracts



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2020 Key Contracts Executed

- UCI Renewable Electrolytic Fuel Production
- Equilon Hydrogen Fueling Station
- SwRI Pent-Roof Medium Duty NG Engine
- Landi Renzo Near-Zero NG Conversion System
- US Hybrid Plug-In Hybrid CNG Truck
- Roush Battery Electric Medium-Duty Truck



Equilon Fueling Station Site



US Hybrid CNG Truck

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2020 Key Projects Completed

- Electric/Hybrid Technologies
 - ZECT I: Class 8 Zero-Emission Electric and CNG Plug-in Hybrid Electric Trucks
 - Near-Zero ISX12N Beta Engines
- Hydrogen/Fuel Cell Technologies and Infrastructure
 - Solid Oxide Fuel Cell and Gas Turbine
 - Installation of Renewable Hydrogen Stations in Chino and Riverside
- Engine Systems
 - Ultra-Low Emission Diesel Engine for On-Road Heavy Duty Vehicles



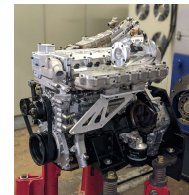
ZECT 1 Electric & CNG Trucks



Riverside H2 Station

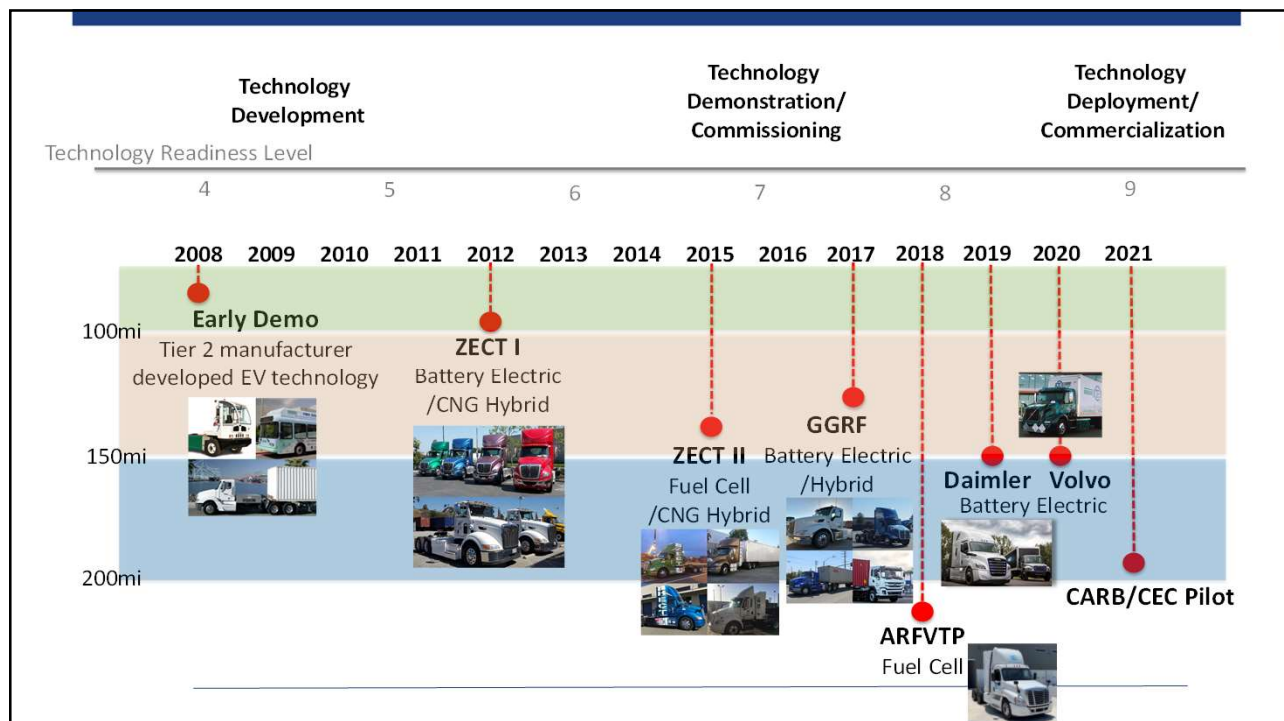


Chino H2 Station



Ultra Low Emission Diesel Engine

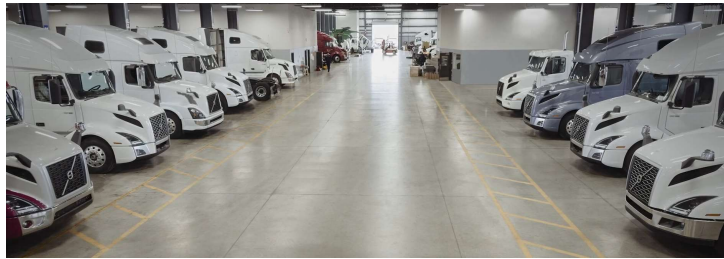
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2021 Plan Update (Key Technical Areas)

- Focus priorities on large demonstrations of zero emissions drayage trucks to test and validate OEM readiness and infrastructure viability
- Defining technology pathways via special projects - the Ultra-Low Emissions Engine Program
- Near-zero emission (gaseous and liquid fuel) engine systems, especially high HP uses



Volvo Dealership in Fontana to Service Class 8 Battery Electric Trucks

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2021 Plan Update (Continued) (Key Technical Areas)

- Expand focus on local biogas production and use
- Leverage OEM partnerships to focus on continued deployment of hybrid, plug-in, electric-drive technologies and infrastructure
- Onsite hydrogen production and dispensing and mobile refueling
- Maintain other areas of emphasis

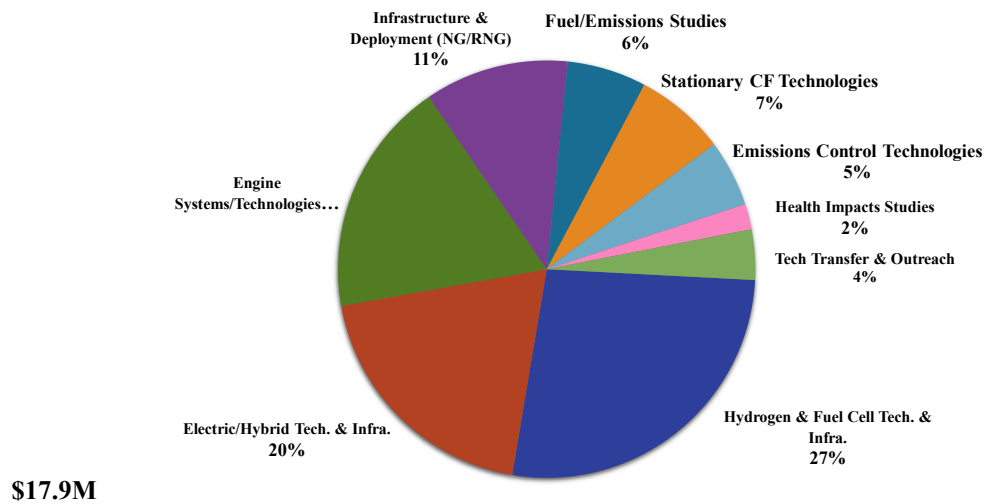


CR&R Anaerobic Digestion and RNG Production and Demonstration in Perris CA

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2021 Plan Distribution



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Development Schedule

- Technology Committee October 16, 2020
(Draft 2021 Plan Update)
- Advisory Group Review September 17, 2020
February 2, 2021
- Technology Committee February 19, 2021
- Board Approval March 5, 2021
- Submit to State Legislature March 31, 2021

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New Advisory Group Members

Clean Fuels Advisory Group (13 members in total):

- Keith Brandis, Volvo Trucks NA replacing Steve Ellis, Honda
- Dwight Robinson, Entrepreneur replacing Michael Walsh, Consultant

Technology Advancement Advisory Group (14 members in total):

- Laura Renger, SCE replacing Dawn Wilson, SCE (Retired)
- TBD replacing Steve Cliff, CARB

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Board Approved Actions

Approved	Approved Clean Fuels Program 2020 Annual Report
Adopted	Adopted Clean Fuels Program Plan Update for 2021
Adopted	Adopted Resolution finding no duplicate projects or programs funded by other state/local agencies
Approved and Adopted	Approved and adopted Clean Fuels Advisory Group membership changes
Received and Filed	Received and filed Technology Advancement Advisory Group membership changes
Staff	Directed staff to forward documents to State Legislative Analyst by March 31, 2021

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RULE 1180 IMPLEMENTATION UPDATE
for LOCAL GOVERNMENT & SMALL BUSINESS ASSISTANCE ADVISORY GROUP
APRIL 9, 2021

South Coast AQMD

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RULE 1180: NEED AND PURPOSE

- Petroleum refineries are among the largest stationary sources of criteria and toxic pollutants in the South Coast Air Basin
- Operational activities and upset conditions can result in the release of
 - Criteria pollutants, VOCs, other toxic compounds
- Need for real-time continuous air monitoring to
 - Support efforts to address regional and local community air quality concerns
 - Support refinery operator's efforts to identify leaks and other sources of emissions sooner
- Purpose is to measure and record air pollutant concentrations at the fenceline and in nearby communities continuously and in near real-time
- Make data available to the public

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RULE 1180: APPROACH

Refinery Fenceline Air Monitoring

- Refineries submit a Plan in accordance with approved Guidelines
- Require refineries to install and operate real-time fenceline air monitoring systems 1 year after plan approval
- Mechanism for submitting plan updates
 - Ensure long-term adequacy of fenceline monitoring system
- Require notifications when pollutants exceed pre-determined thresholds
- Require recordkeeping

Community Air Monitoring

- Establishes fees for community air monitoring
- Designed, implemented, and operated by South Coast AQMD staff

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FENCELINE AIR MONITORING PLAN REQUIREMENTS

Fenceline

- Fenceline air monitoring coverage
- Proximity to near by communities, sensitive receptors
- Meteorological analysis
- Description of refinery emissions and dispersion modeling
- Analysis of other neighboring emission sources

**Approved by South Coast AQMD and fully
Implemented for all refineries**

**Data
QA/
QC**

- Data presentation to the public
- Public notification system
- Quality Assurance

**Staff working with refineries towards the final
approvals**

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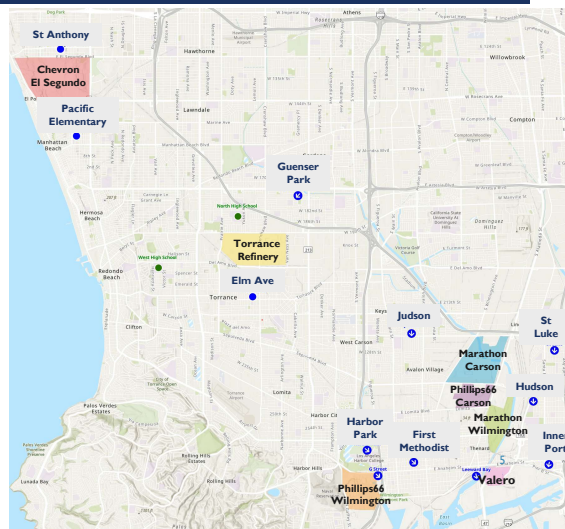
AIR MONITORING AT A GLANCE

Refinery Fenceline Air Monitoring

- 7 refineries in South Coast Air Basin
- Nearly complete fenceline coverage
- Real-time monitoring for all required compounds
- Dedicated public data portal and notification system

Community Air Monitoring

- 10 permanent fully-equipped community stations
- Real-time monitoring for all required compounds
- Dedicated public data portal and notification system



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FENCELINE AND COMMUNITY AIR MONITORING

Fenceline Air Monitoring

Rapid Response
Updated every 5 minutes

- Open Path FTIR and UV-DOAS
- Point monitors for Hydrogen Sulfide and Black Carbon
- Wind speed, wind direction and visibility



LP DOAS Instrument

Community Air Monitoring

Rapid Response
Updated every 5 minutes

- Optical FTIR and UV-DOAS
- Point monitors for Hydrogen Sulfide, Black Carbon and Hydrogen Fluoride
- Wind speed and wind direction



UV-DOAS optical cell

Community Air Monitoring

Semi-continuous
Increased sensitivity

- Automated GC (1-hour average) for BTEX and extensive list of VOC's
- ~0.1 ppb detection limits!

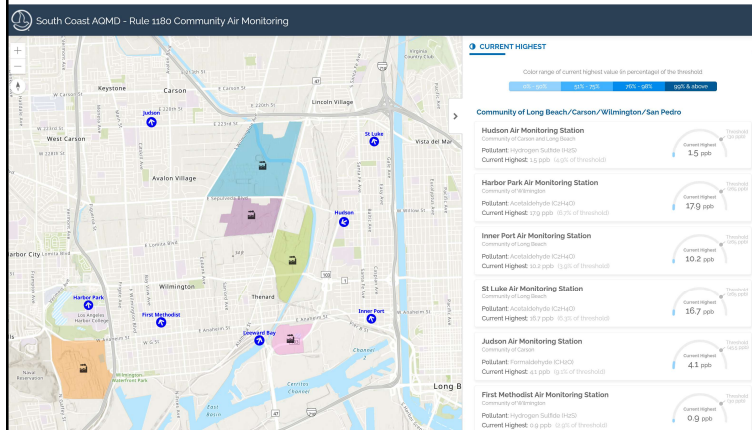


Mini Auto-GC

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AIR MONITORING DATA PORTAL



Community Air Monitoring

- “At a glance” air quality display
- View current and historical data
- Data download
- Frequently Asked Questions

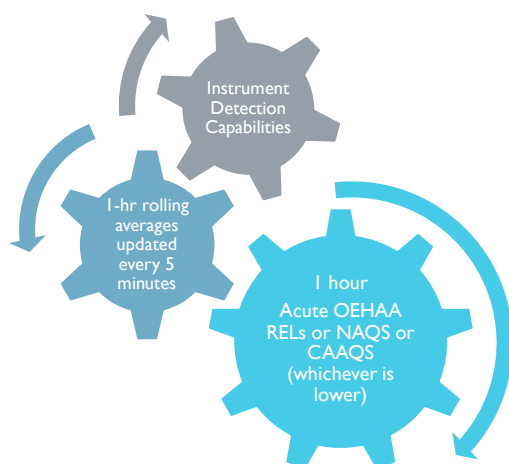
Refinery Fenceline Air Monitoring

- Links to each refinery fenceline air monitoring portal
- Refinery fenceline data summary reports
- Future plans for integration of refinery air monitoring data

<https://xappprod.aqmd.gov/Rule1180CommunityAirMonitoring/>

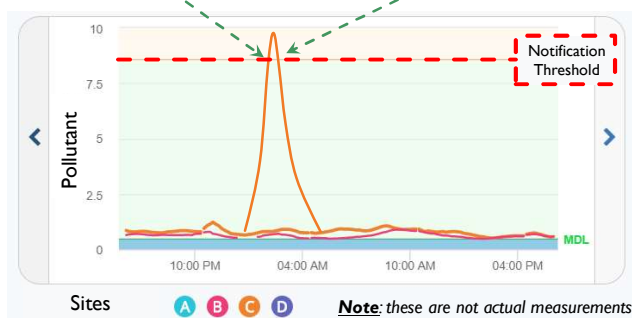
7

COMMUNITY AIR QUALITY NOTIFICATIONS



Event Start Notification
(email or text)

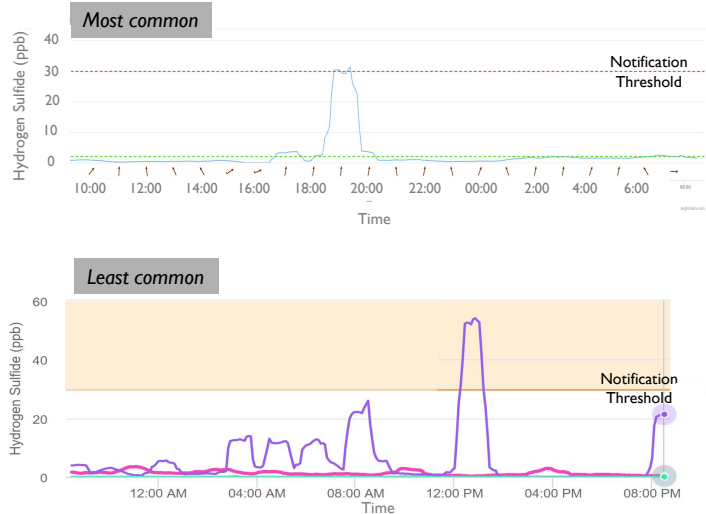
Event End Notification
(email or text)



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REFINERY NOTIFICATIONS

- In 2020 most notification events were caused by H₂S exceedances
 - Occurred at Chevron, Marathon, Valero and Phillips 66 refineries
- H₂S levels at community air monitoring sites remained low
- Compliance staff followed-up as needed
- Refineries investigated and corrected the causes



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FUTURE WORK

Refinery Fenceline Air Monitoring

- Finalize of Quality Assurance Project Plans
- Quality Assurance Program: audit and verification of fenceline air monitoring systems

Community Air Monitoring

- Finalize Quality Assurance Project Plan
- Public sign-up for Community Air Quality Notifications
- Community Meeting to present the results of the first year of Rule 1180 implementation

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Small Business Assistance Report on March 2021 Activities for LG&SBA Advisory Group Meeting of 4/9/2021

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Services Offered – March

■ Permit Application Assistance	236
■ Fee Review Committee Requests	4
■ 1 Granted (Reinstate Permit)	
■ 3 Denied (2 Reinstate Permit, 1 Waive Late Fee)	
■ Air Quality Permit Checklists Processed	90

4/9/2021

March 2021 Report

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Permit Assistance – March

- 236 Activities Providing Help with Permit Applications. Examples include:
 - 52 *General Contractors/ Consultants/ Architects*
 - 19 *Restaurants*
 - 26 *Manufacturing Facilities*
 - 17 *Retail Stores*
 - 9 *Dry Cleaners/ Garment Cleaners*
 - 13 *Auto Body and Repair Shops*
 - 15 *Warehouses (Storage/ Distribution)*
 - 3 *Fuel Dispensing Facilities*

4/9/2021

March 2021 Report

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Activities – March

- No on-site consultations conducted
- Event(s) Attended
 - No Events Attended

4/9/2021

March 2021 Report

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Dry Cleaner Grants Issued (as of 3/2021)

■ Professional Wet Cleaning	165
■ CO ₂ Machines	4
■ Hydrocarbon (funds expended)	488

4/9/2021

March 2021 Report

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Small Business Activity March 2020 – March 2021

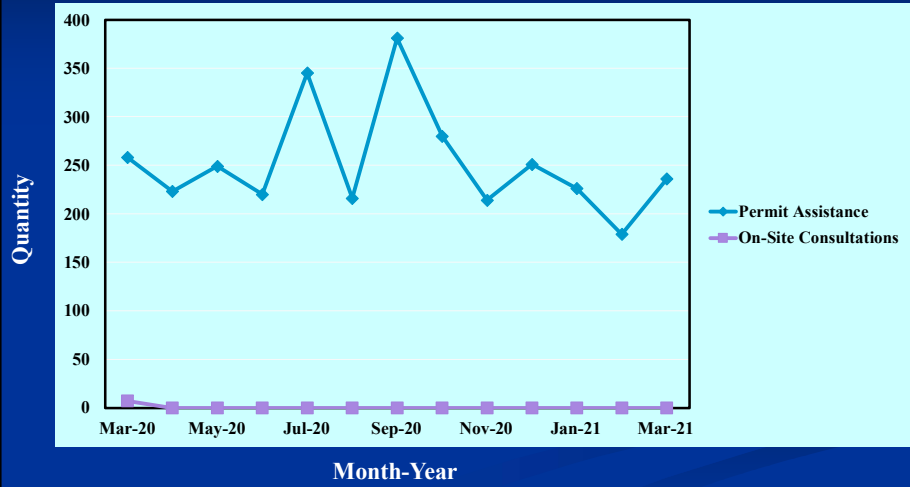
ACTIVITY	Permit Assistance	On-Site Consultations	Variance Assistance	Fee Review Requests	Air Quality Permit Checklists
Mar-2020	258	7	0	3	47
Apr-2020	223	0	0	3	49
May-2020	249	0	0	3	65
Jun-2020	220	0	0	1	51
Jul-2020	345	0	2	3	110
Aug-2020	216	0	0	2	57
Sep-2020	381	0	0	2	65
Oct-2020	280	0	0	3	84
Nov-2020	214	0	15	2	50
Dec-2020	251	0	43	2	59
Jan-2021	226	0	3	1	70
Feb-2021	179	0	1	2	62
Mar-2021	236	0	0	4	90
TOTAL	3278	7	64	31	859

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March 2021 Report

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Small Business Activity March 2020 – March 2021



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March 2021 Report