

Richmond - San Pablo Community Air Monitoring Plan

Steering Committee

Meeting #11: January 22, 2020

List of Appendices:

- Meeting Agenda
- PowerPoint Presentation
- Group Dot-Voting Activity Results
- 1/22 Group Activity Individual Comment Form Transcription
- 1/22 Group Activity Recording Form Transcription

Richmond-San Pablo Area Community Air Monitoring Plan Steering Committee Meeting

January 22, 2020 ~ 6:00 pm - 8:00 pm

Richmond Memorial Auditorium (Bermuda Room), 403 Civic Center Plaza, Richmond

A G E N D A

- 5:30 pm *Registration and Light Refreshments*
- 6:00 **I. Welcome, Introductions and Roll Call**
- 6:05 **II. Agenda Review**
- 6:10 **III. Process Updates**
- Brief Recap of 12/11 Steering Committee Meeting
 - Initial Monitoring Efforts
 - Pre-selection Community Emissions Reduction Plan Work Group
 - Technical Advisory Group
- 6:20 **IV. Draft Monitoring Plan**
- 6:30 **V. Options for Additional Monitoring Projects**
- 7:45 **VI. Public Comments**
- 7:55 **VII. Next Steps**
- Next Steering Committee Meeting:
February 19, 2019, 6:00 - 8:00 pm;
RSVP: <https://forms.gle/QnqqHnw1kyzpDEfb7>
- 8:00 pm *Close...*

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Richmond – San Pablo Community Air Monitoring Plan
Steering Committee Meeting #11

January 22, 2020

Today's Agenda

- I. Welcome, Introductions and Roll Call
- II. Agenda Review
- III. Process Updates
- IV. Draft Monitoring Plan
- V. Options for Additional Monitoring Projects
- VI. Public Comments
- VII. Next Steps

Steering Committee Operating Principles

- Transparency
- Equal Participation
- Inclusivity
- Respectful Engagement
- Facilitated Meetings
- Decision Making



Participation Guidelines

- Participants will have **up to 1 minute** to ask their questions and/or state their comment
 - Please be succinct and avoid asking more than one question at a time
 - Indicate to whom your question is directed
- **Step up, step back**
- For public comment, participants are **only** invited to ask questions or make comments related to the Richmond-San Pablo Monitoring plan
 - Participants will have up to 1 minute to ask their questions and/ or state their comment



Process Overview

Richmond - San Pablo Area Community Air Monitoring Plan

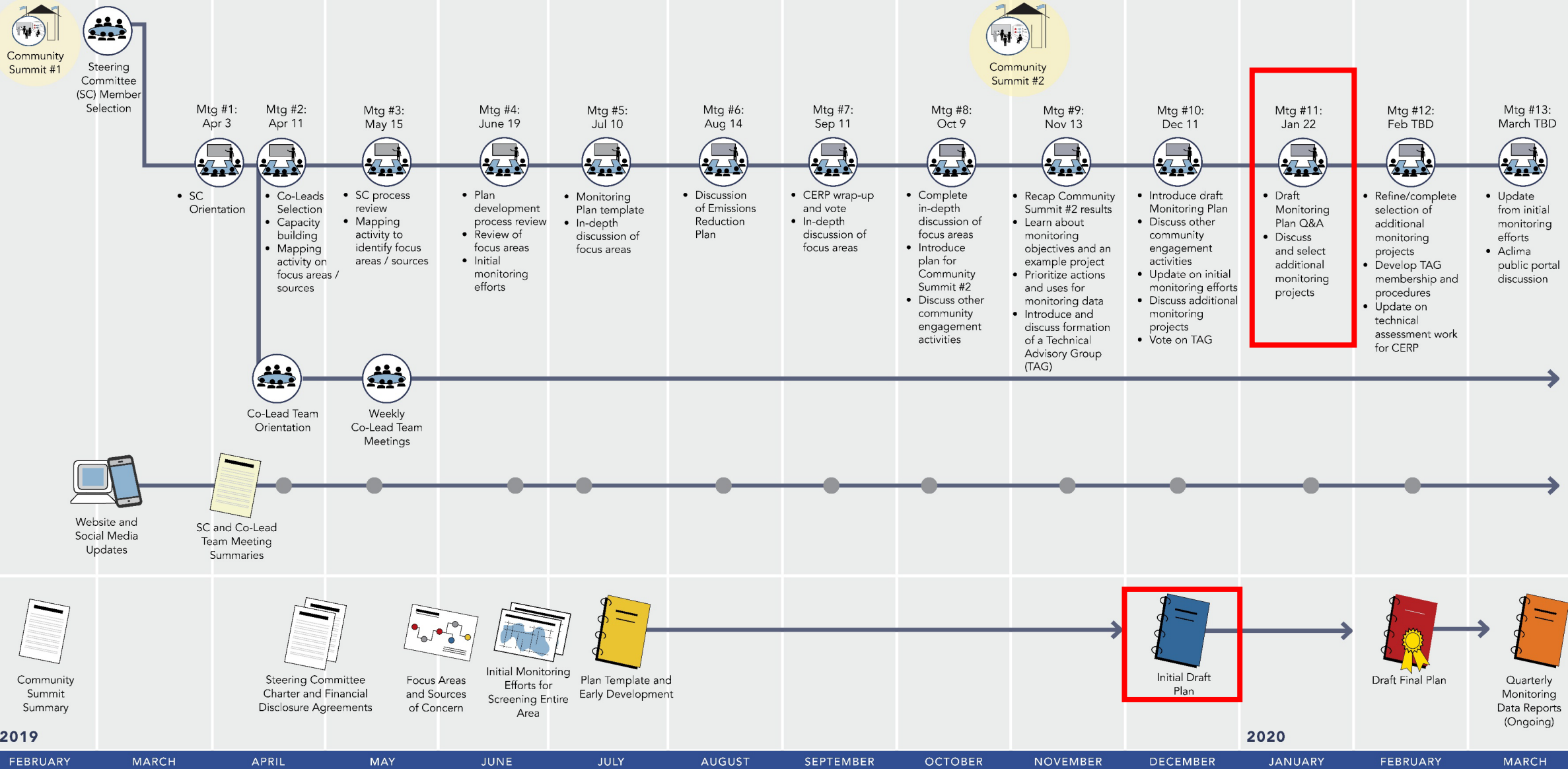
PHASE 1: IDENTIFY COMMUNITY-SPECIFIC AIR QUALITY CONCERNS

PHASE 2: PRIORITIZE FOCUS AREAS AND DRAFT PLAN

PHASE 3: FINALIZE AND IMPLEMENT MONITORING PLAN

COMMUNITY ENGAGEMENT AND COORDINATION

PROJECT DELIVERABLES



Recap of December Steering Committee Meeting

- Received updates on **initial monitoring efforts**
- Introduced three **additional monitoring project options**
- Discussion and vote on **Technical Advisory Group**



Recap of Co-Lead Team Progress: December - January

- Assisted with January 14th's **press conference highlighting Aclima's initial monitoring** efforts in the Bay Area
- Planned **January 22nd Steering Committee meeting**
- Activities, materials, speakers and presentations
- Continued design of **communications strategy and developed draft press release content**
- Convened and facilitated **TAG Design Team**
- Coordinated the development of the **Pre-Selection CERP work group**



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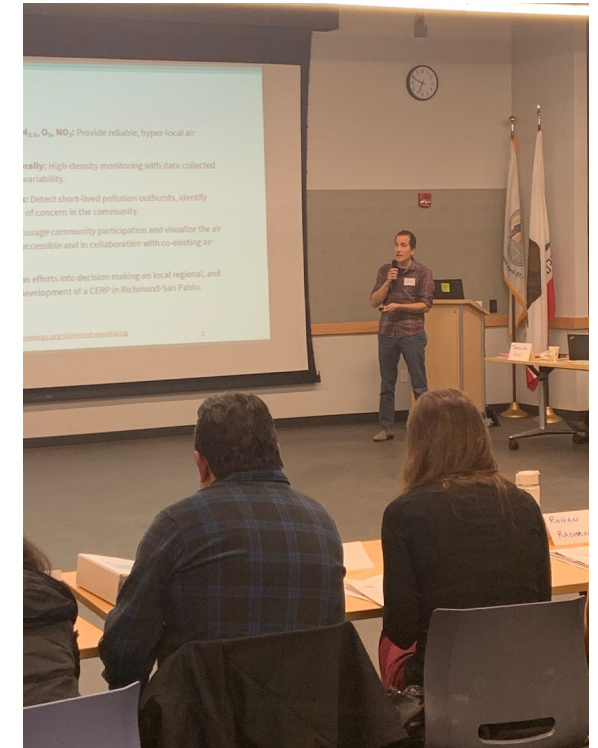
Pre-Selection Community Emissions Reduction Plan Work Group

- **Twenty (20) volunteers** to date
- Uses Steering Committee **membership criteria**:
 - Fifty-one percent (51%) or more will be **community representatives**
 - Only one member from each organization
- Monthly meetings will kickoff in February 2020



Initial Monitoring Efforts

- **Aclima**
 - Collected data from 7/1/19 to 10/31/19
 - Currently verifying data
- **Groundwork Richmond**
 - Currently collecting data
 - Access data in real-time at app.ramboll-shair.com
- **PSE Healthy Energy**
 - 26 monitors scheduled for deployment in January 2020
 - Currently collecting data
 - Access project website at psehealthyenergy.org/richmond-monitoring



Draft Monitoring Plan

Draft Air Monitoring Plan

- A draft community air monitoring plan was made **available** for the Steering Committee to review
- The Plan **summarizes** our work accomplishments so far
- The Plan will be **updated** as we continue our efforts



AB 617 Richmond-San Pablo
Community Air Monitoring Plan



Draft Air Monitoring Plan Highlights

- Why we need air monitoring in Richmond-San Pablo
- Forming a Steering Committee
- Sharing and prioritizing air quality concerns
- Selecting initial air monitoring projects



**AB 617 Richmond-San Pablo
Community Air Monitoring Plan**

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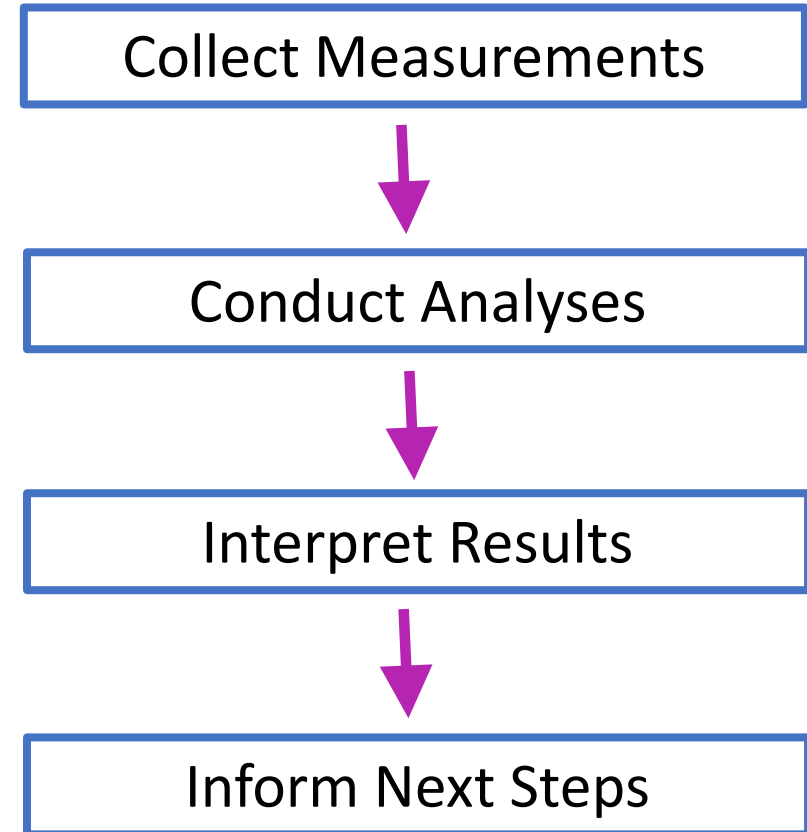
Options for Additional Monitoring Projects

Additional Monitoring Projects

- We are considering **three options** for additional monitoring projects:
 - PM2.5 hotspots from traffic
 - PM impact from coal transport and operations
 - Air toxics hotspots
- We need to **prioritize** which project to begin with

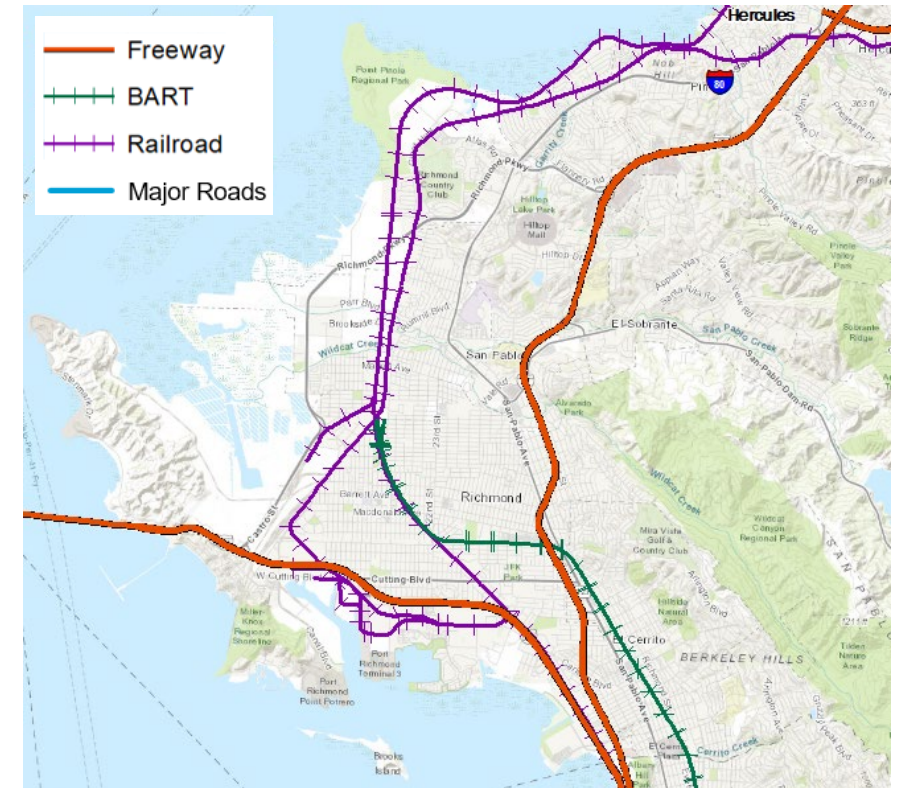
Draft Air Monitoring Plan Highlights

- **Phased approach**
- Screening **data** may answer the monitoring question, or
- **Additional measurements** may be needed to investigate further



Option 1: PM 2.5 hotspots from traffic

- Analyze data from **initial screening projects** to identify areas/times with higher than average PM_{2.5} near roadways
- Determine if **impacts** are near schools, childcare centers or senior centers,
- Other objectives could include:
 - Data could also indicate persistent elevated PM_{2.5} near **other sources** of concern,
 - Stationary sensor networks can provide **real-time air quality information**



Option 2: Evaluate the PM impact from coal transport and operations

- **Air District van** measurements could include
 - Amount of PM (mass, number)
 - Physical properties of PM (sizes)
 - Chemical characteristics of PM (black carbon)
 - Meteorology
- Results inform the need and location(s) for **short term stationary measurements**

Option 3: Identify air toxics hotspots

- Steering committee **defines air toxics study area** using updated emissions
- Use **Air District van** to measure toxic gases in the air
- Analyze data to **locate hotspots** and evaluate potential sources
- Results may require **additional mobile** or **short-term stationary** measurements
- May be able to cover more than one area depending on results



Additional Monitoring Projects

- Questions to consider for each option:
 - How **urgent** is this option?
 - Will this option provide data to inform important **air quality concerns**?
 - Do you understand this option? What **additional information** do you need?
- We will **decide which option to start with** at our next meeting on **February 19th**



Group Discussion

Small Group Discussion: Participation Agreements

- **Step up, step back.**
- **One person** speaking at a time; no side conversations.
- **Be specific and concise.**
- Please be patient and **respectful** of each other's opinions.
- Use the **comment form** to share input in your own words.

Small Group Discussion

- **Purpose:**
 - Collect input on how well the 3 monitoring options **address our criteria**
 - Help to decide when we should **initiate** each option
 - **Inform the February 19th vote** on the sequencing of each option

Small Group Discussion Format

- **For each option, there are three criteria to consider:**
 - How **urgent** is this option?
 - Will this option **provide data** to inform important air quality concerns?
 - Do you understand this option? What **additional information** do you need?
- **Rank** the three options from 1 – 3 for each criteria
 - = Rank 1 (best addresses criteria)
 - = Rank 2 (next best addresses criteria)
 - = Rank 3 (least addresses criteria)

Small Group Discussion Format

- You will spend **15 minutes** considering how well each option addresses a given criteria and ranking the three options from 1 to 3.
- **Steering Committee and members of the public participate only**
- No more than **8 people** per group

Public Comment

Public Comment Guidelines

- Participants are **only** invited to ask questions or make comments related to the Richmond-San Pablo Monitoring Plan
- Participants will have **up to 1 minute** to ask their questions and/ or state their comment

Next Steps

Social Media: Stay Connected!

- <https://www.facebook.com/bayareaairdistrict/>
- <https://twitter.com/AirDistrict>
- <https://www.instagram.com/bayareaairdistrict/>
- <https://www.linkedin.com/company/34402/admin/>
- https://www.youtube.com/channel/UCqDZvQey_NudwMVWRBN-H6w?view_as=subscriber



Next Steps

- Next Steering Committee meeting to refine and complete the selection of additional monitoring projects:
 - **February 19, 6:00 – 8:00 pm**
 - Richmond Memorial Auditorium Bermuda Room
- **RSVP:** <https://forms.gle/QnqqHnw1kyzpDEfb7>

Steering Committee Meeting Schedule

- **February 19, 6:00 – 8:00 pm**
- **March 25, 6:00 – 8:00 pm**
- Future meeting times and locations to be determined

****Child Watch Available****

To view Steering Committee agendas, minutes and PowerPoint presentations online, visit:

<http://bit.ly/Richmond-SanPablo-CommunityHealth>



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**Richmond – San Pablo Community Air Monitoring Plan
Steering Committee Meeting #11**

January 22, 2020

AB 617 Richmond-San Pablo Steering Committee Meeting, January 22, 2020

Summary of results from group activity for considering additional monitoring options:

	This option is urgent. ● Rank 1 ● Rank 2 ● Rank 3	This option meets objectives that are important to me. ● Rank 1 ● Rank 2 ● Rank 3	I understand/have enough information about this option. ● Yes ● I don't know ● No
Option 1: PM _{2.5} hotspots from traffic	17 11 0	18 11 0	8 8 11
Option 2: Evaluate the PM impact from coal transport and operations	2 3 23	3 5 18	3 5 19
Option 3: Identify air toxics hotspots	11 14 4	11 10 5	7 7 14

Richmond – San Pablo Community Air Monitoring Plan Options for Additional Monitoring Projects

	This option is urgent.	This option meets objectives that are important to me.	I understand/have enough information about this option.
Option 1: PM _{2.5} Hotspots from Traffic	<ul style="list-style-type: none">● = Rank 1● = Rank 2● = Rank 3	<ul style="list-style-type: none">● = Rank 1● = Rank 2● = Rank 3	<ul style="list-style-type: none">● = Yes● = I don't know● = No
Option 2: Evaluate the PM Impact from Coal Transport and Operations			
Option 3: Identify Air Toxics Hotspots			

Group #: Q

Group Facilitator:

1/22/2019

Legend

- = Rank 1 (best addresses criteria)
- = Rank 2 (next best addresses criteria)
- = Rank 3 (least addresses criteria)

Richmond – San Pablo Community Air Monitoring Plan Options for Additional Monitoring Projects

	This option is urgent. ● = Rank 1 ● = Rank 2 ● = Rank 3	This option meets objectives that are important to me. ● = Rank 1 ● = Rank 2 ● = Rank 3	I understand/have enough information about this option. ● = Yes ● = I don't know ● = No
Option 1: PM _{2.5} Hotspots from Traffic			
Option 2: Evaluate the PM Impact from Coal Transport and Operations			
Option 3: Identify Air Toxics Hotspots			

Group #:

Group Facilitator:

1/22/2019

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Richmond – San Pablo Community Air Monitoring Plan Options for Additional Monitoring Projects

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Option 1: PM _{2.5} Hotspots from Traffic			
Option 2: Evaluate the PM Impact from Coal Transport and Operations			
Option 3: Identify Air Toxics Hotspots			

Group #:

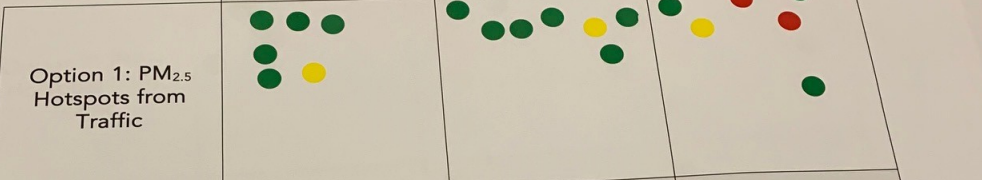
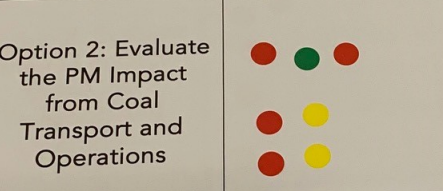
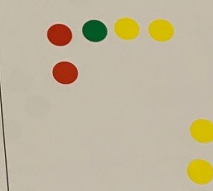
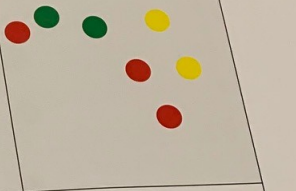
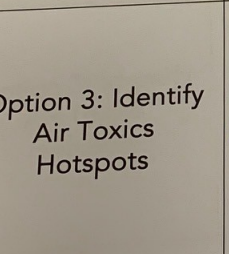
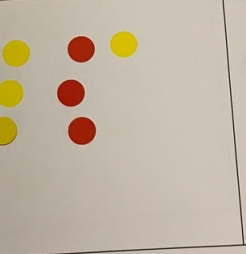
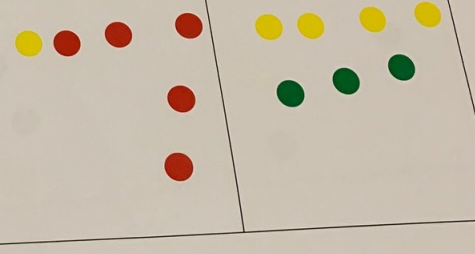
Group Facilitator:

1/22/2019

Legend

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Richmond – San Pablo Community Air Monitoring Plan Options for Additional Monitoring Projects

	This option is urgent.	This option meets objectives that are important to me.	I understand/have enough information about this option.
Option 1: PM _{2.5} Hotspots from Traffic	<ul style="list-style-type: none"> ● = Rank 1 ● = Rank 2 ● = Rank 3 	<ul style="list-style-type: none"> ● = Rank 1 ● = Rank 2 ● = Rank 3 	<ul style="list-style-type: none"> ● = Yes ● = I don't know ● = No
Option 2: Evaluate the PM Impact from Coal Transport and Operations			
Option 3: Identify Air Toxics Hotspots			

Group #:

Group Facilitator:

1/22/2019

Legend

- = Rank 1 (best addresses criteria)
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- = Rank 3 (least addresses criteria)

Richmond – San Pablo Community Air Monitoring Plan Options for Additional Monitoring Projects

	This option is urgent. ● = Rank 1 ● = Rank 2 ● = Rank 3	This option meets objectives that are important to me. ● = Rank 1 ● = Rank 2 ● = Rank 3	I understand/have enough information about this option. ● = Yes ● = I don't know ● = No
Option 1: PM _{2.5} Hotspots from Traffic			
Option 2: Evaluate the PM Impact from Coal Transport and Operations			
Option 3: Identify Air Toxics Hotspots			

Group #: 4

Group Facilitator:

1/22/2020

Legend

- = Rank 1 (best addresses criteria)
- = Rank 2 (next best addresses criteria)
- = Rank 3 (least addresses criteria)

**Richmond - San Pablo Community Air Monitoring Plan:
1/22 Group Activity Individual Comment Form Transcription**

Option 1: PM 2.5 Hotspots from Traffic			
Respondant	Criteria A. This option is urgent. Why or Why not?	Criteria B. This option meets objectives that are important to me. Why or why not?	Criteria C. I understand/have enough information about this option. Why or why not?
1	important issue, but... unclear solutions? <u>*public transportation</u> ->maybe combined with health data can be very important	very applicable to daily life	good project -> public transportation effort but solutions and future of data unclear
2	Richmond/San Pablo has hwy 80 with heavy traffic patterns, hwy 580 fwy and Richmond Parkway. High concentrations of PM primarily from these hwys.	I am interested in using <u>data</u> to develop emission reduction strategies such as diesel emission red. In truck and traffic patterns and re-routing	Assess what data already exists in this area and determine sources from diesel trucks, high level of traffic and railways. This has the potential for reducing high
3	+ strongly interested in traffic effects	+ yes - live near major corridor - most likely payoff - let's resolve this issue	All 3 have issues - for all, what is the <u>risk</u> if do not do this project? That analysis would help in the planning dec
4			Yes. Aclima and CARB grantees are already collecting PM 2.5 data
5	Yes - because PM 2.5 (diesel particulate) drives health risk.		
6			
7	Known huge impact on human health Essential to distinguish diesel contribution		
8	This general ?? gives us the most data to direct future studies. This gets the most data faster		
9	2. Yes how the freeways around us have hotspots/What times so can avoid doing outdoor activities around these areas @specific times	See what times & what places have hotspots to avoid them	No, we would like to see the data in order to prioritize which project is more urgent
10	Most urgent since we know the least about this one	Yes because I live near major thoroughfares	We need more data
11			
12	I think the current screening efforts will give us a good enough picture of 2.5 hotspots (Less urgent)	Important to validate the Acclima; GWR; PSG screening efforts	Meh?
13	We know a lot already about traffic patterns	Important to me personally, but mitigation must be addressed on a state or federal level	We know where the traffic is; it's also the least amenable to mitigation
14	I like this one. #1 important because it will (most likely) get worse.	#1 is important to me because I spend a fair amount of time in traffic.	PM 2.5 levels is determined by 24 hr samples. I don't see any 24 hr data or plans for those samples. I would be happy indeed to see such.
15	yes	yes	not really
16	significant contributor to health burden		
17	This is the most urgent for me. How is traffic - cars, trains, diesel, etc. impacting our community		
18	(1) Not a lot of existing data. We have continuous monitoring at large industrial sites	Very little traffic air monitoring data	I have some questions, but I know enough to support starting this study

19

1. This is most urgent b/c federal involvement in attempting to lower emissions standards. In addition, the Bay Area's population is growing & continues to grow, increasing vehicles.

1. Yes this one does given that I represent residents in Richmond Annex, near I-80, 580, San Pablo. Changes in ramp metering @Carleson & 80 make fwy traffic better but backup on surface streets. What is better?
IDK

Yes

Option 2: Evaluate the PM Impact from Coal Transport and Operations

Respondant	Criteria A. This option is urgent. Why or Why not?	Criteria B. This option meets objectives that are important to me. Why or why not?	Criteria C. I understand/have enough information about this option. Why or why not?
1	with Richmond ordinance -> Levin terminal going to fight it -> maybe data can but... CARB already collecting data	Important for trains -> especially data focused in San Pablo -> BUT aware of other groups already collecting data	sort of -> would like more information on data and projects already being conducted
2	I need more info. Here and am interested in distinction of sources coal, pet co, etc.	It will be important to review transport of coal, the terminal operations, and pet co	need more info
3	- Don't see the urgency - probably don't understand issue well enough	-	All 3 have issues - for all, what is the <u>risk</u> if do not do this project? That analysis would help in the planning dec
4			No, I will need to educate myself more
5	not urgent - although interesting, not the best use of resources because larger PM 10 dust from old or new coal doesn't necessarily link with the health risk of the options above & below		
6			Petcoke must be also evaluated. How will you measure size of stock piles & deliveries & transport & handling of coal & petcoke that may affect PM. How distinguish sources of PM: black carbon, petcoke, coal, refinery emissions, etc. This distinguishing <u>very</u> important. Coal trains & petcoke trucks also important
7			
8	Least important. CARB giving grant to study this separately		
9	3. We already know enough information about this & sources	We already know the health effects of coal & currently we know some sources & coal ban in Richmond now passed. So it's something that has been addressed.	No, we would like to see the data in order to prioritize which project is more urgent
10	Important but in flux so not sure it's a priority	I live far away that it's not a huge concern	We need more data
11			
12		Moot point. Coal is no more unless litigation demands it.	Only if lawsuit requires it.
13	This is urgent, and lots of pushback from industry folks and unions makes it very political.	There is a CARB study that will most likely deal with this. The terminal is known to be most responsible for PM 2.5 in its area	1. Will this include petroleum coke operations? Health impacts, based on greater burden of toxic heavy metals in the particles, maybe be worse; 2. CARB grants to Health Impact Partners covers this ground; 3. Logistics of identifying target pollutants not fully fleshed out here
14	#3 Very difficult to evaluate. I don't think this is worth our efforts	#3 "Coal operations" are in an industrial area. Very few (if any) people live there	#3 Seems to already all over the newspapers and political locals. It appears to <u>me</u> this issue will be decided by groups other than us
15	Very urgent. The coal is blowing in our lungs	Yes. I work next to the coal terminal and it is very bad	Yes
16			
17	Not sure why this was singled out as an option		
18	(3) PM from coal transport seems a subset of other two options	There is a moratorium	What does PM represent? PM 2.5, PM 10? Is there different types of particles?

3. Given a possible ban on storing coal, perhaps this is less urgent

While still very important, less important than option 1 & 3

Yes

Option 3: Identify Air Toxics Hotspots

Respondant	Criteria A. This option is urgent. Why or Why not?	Criteria B. This option meets objectives that are important to me. Why or why not?	Criteria C. I understand/have enough information about this option. Why or why not?
1	Can bring a focus -> intersect w/many other options such as traffic	Need more information -> what specific hotspots?	Very broad, my opinion would strengthen w/more specifics. *overlap w/other projects
2	This option is critical because existing "City" & BAAQMD monitoring does not screen for high levels of air toxics. For example, fence monitors are limited. In addition, it will assist in triangulating specific hotspots that can drive our emission reduction plan. There is a data gap for this area	This area correlates with health disparities such as mortality rates but we need more information on a local level.	More information on modeling - stationary vs. mobile monitoring
3	o strong contender - explore overlaps with traffic?	o this is a strong project	All 3 have issues - for all, what is the <u>risk</u> if do not do this project? That analysis would help in the planning dec
4	Yes, hotspots already exist and are consistent with emissions, despite the day of the week	Yes, because they are near schools, homes, stores, parks where the families are every day	Yes
5	Most urgent due to the lack of existing data		
6			Where are gaps in current monitoring of refinery toxic emissions currently & how can these gaps be filled by your proposed monitoring plan.
7			
8	We need more monitoring of find unregulated emissions i.e. auto shops that use degreasers in the air		
9	1. Yes, we would like to know if there are hotspots in the area and identify so we can implement reduction	to identify new hotspots	No, we would like to see the data in order to prioritize which project is more urgent
10	Important but already being done	Yes	We need more data
11			
12	Complicated stuff needs more data	Very important because current screening doesn't reveal enough about gasses	Nobody knows enough & could add confidence or criticism to historic reporting regime
13	Not enough is known, and where regulation is possible that would have greatest impact on community health	Anything to enlarge our understanding of toxics other than PM 2.5	
14	#2 on my level of urgency	#2 There may be hotspots we have yet to quantify	#2 Hotspots were/are one of my concerns. Clost to option 1 concerns
15	Urgent	Yes. We need to identify the sources of toxic hotspots	Not enough info
16	Biggest data gaps given existing data sets and ongoing monitoring	Air toxic emissions can be episodic in nature and may be underreported in emissions inventories. Health burden is unknown but many air toxics pose risks at low concentrations	Frequency of measurements; suite of compounds that can be considered for measurement - and health relevance of each compound (known carcinogen, reproductive toxicant, etc.)
17	It is important - but not as urgent as option #1		
18	(2) Can we speciate toxics to apportion pollutants back to sources	Toxics are important, PSE and groundwork not collecting toxics, just combustion products	How does apportioning work. How will season effects be handled.

2. Second most urgent b/c I am concerned about small, non-permitted sources but not sure restaurants, etc. would emit gaseous sources, but rather PM. If PM is included in this monitoring I think it would be helpful

2. Will help to identify other areas of concern or specific types of pollutants from unusual sources that residents may not be aware of

Not entirely. My concern is related to small, probably not permitted sources of PM emissions from restaurants. Could this option also include a PM component in addition to gaseous TAC component? If so, this would be a preferable option. Also, I'm unclear on where you would start to target specific areas - which toxics will be evaluated

Respondant	Additional Questions and Comments
1	*Curious to see how we can involve and engage the Native American community in the area, seeing how it is a group greatly underrepresented
2	
3	Michael Helan (??) cecinit2007@gmail.com +1 510 621 7353
4	
5	
6	How frequent & prolonged Coal trains in middle of night & only 1-2 a week how will you take this into account
7	
8	
9	
10	I find it tough to consider any of these options without having the data that describes the impact of each of these
11	Air District Representatives need to be more strait forward when explaining information. Sometimes people need to go through the steps to understand the end <u>results</u> .
12	
13	
14	
15	
16	Option 3 can focus on industrial activities and can also focus on areas with sensitive receptors
17	I feel that column one was the most important for where we currently are. There seems to be a need for more explanation of all 3 options. Also a question regard how option were put together
18	Need to fix the timing of lights on the parkway
19	

**Richmond - San Pablo Community Air Monitoring Plan:
1/22 Group Activity Reporting Form Transcription**

Option 1: PM 2.5 Hotspots from Traffic			
Group	Criteria A. This option is urgent. Why or Why not?	Criteria B. This option meets objectives that are important to me. Why or why not?	Criteria C. I understand/have enough information about this option. Why or why not?
1	rank traffic #1 – one real issue we have is traffic, especially coming through richmond. Parkway was jammed from SR bridge to I-80. because I live in an area with a lot of traffic Resident (OEHHA): same ranking because of traffic, timing of lights and backups. Maybe if the lights were better timed, there would be less congestion. That should show up on the air monitoring.	The PM and the VOC screening are equality important to me. What's important to me is alternative routes to avoid the cumulation of traffic mine is based on the data; need more data on PM Resident (OEHHA): Traffic impacts are top priority	good understanding about PM hotspots Clear on the PM from traffic I understand enough on the coal and PM projects
2	Clear options for reductions All yellow dots		Wants more info/details What data gaps exist
3	There are 2 freeways through the city. Its what we know least about. I want to see real data on traffic impacts.	We already know traffic is a problem.	
4	- voted 1 because felt it is doing greatest health impact - voted 2 because we will have some data from Aclima that can be used	- voted #1 because lives near highway, biggest impact on health, more cost effective to target	*need to know what we won't know from the initial monitoring projects
5	- most important - establish center for health and schools and the Parkway - buildup around 3pm - too many trucks & equipment - youth group fund most important because they way to use data to leverage & increase public transportation - buses are sporadic and not accomodating to school students	- youth encourages collecting this data for public transportation	- interested in hearing from multiple sources - using apps help get more information, especially for youth - incorporate more modern technology

Option 2: Evaluate the PM Impact from Coal Transport and Operations

Group	Criteria A. This option is urgent. Why or Why not?	Criteria B. This option meets objectives that are important to me. Why or why not?	Criteria C. I understand/have enough information about this option. Why or why not?
1	rank coal #3 same as above, feel that the coal should be subset of the other options, also with the moratorium, it doesn't seem as urgent Resident (OEHHA): same ranking	Resident (OEHHA): Coal because "something has to be 3rd."	Don't really have enough information about the coal project, not sure based on different health impacts from different components/types of PM. Resident (OEHHA): need more information about the coal project Jessica: I understand enough on the coal project
2	Can we distinguish b/t coal & petcoke All red dots Need more information		Wants more info/details What data gaps exist
3	We already know the sources	Politics is taking care of this	We need preliminary data
4	- Voted least b/c not as urgent in San Pablo - Council has already made some decisions on coal so not as important - all 5 participants voted #3 for this option	- All 5 participants voted #3	*Most said no or I don't know *Would like to understand the timeline and time cycle for coal-related policy *Need more information on coal impacts *Need more information on current policies surrounding coal *Need more info on coal transport activity/schedule
5	Arnon - coal is more important -> can't stop traffic so it will be harder to tackle -> coal easier to Henry - Pittsburg used dome to cover coal dust -Work on transportation because there are measures and monitoring happening already - Coal not as important because there are measures and monitoring happening already Bryana - How will data be different from CARB and Human Impact Partners?	- Coal is not affecting public transportation - Who wants this information? Katrina - There is only 1 terminal in Richmond and they are under an air permit requirement	Mel - More blunt information about actions already taken in coal operations -More information on what can be done with coal data

Option 3: Identify Air Toxics Hotspots

Group	Criteria A. This option is urgent. Why or Why not?	Criteria B. This option meets objectives that are important to me. Why or why not?	Criteria C. I understand/have enough information about this option. Why or why not?
1	<p>rank toxic hotspots #2</p> <p>What about restaurants that are grilling all day long, big combination of small sources, such as autobody shops.</p> <p>More concerned about non-gaseous toxics, not sure if the VOC hotspots can cover that.</p> <p>Resident OEHHA – We need speciated PM, restaurants are a concern</p> <p>PM and other speciation will help with source identification</p>	<p>The PM and the VOC screening are equality important to me.</p> <p>What's important to me is alternative routes to avoid the cumulation of traffic; the VOC screening is important to know the most toxic areas in the community.</p> <p>Same as first criteria; need to investigate the other PM hotspots in other than traffic. mine is based on the data; need more data on PM; VOC screening fills a gap not filled by the Aclima or groundwork richmond data collection</p> <p>Resident (OEHHA): VOC hot spots, odors are a concern as well even if their not regulated or toxic, just knowing what it is is helpful for reassurance and validating lived experience.</p>	<p>not sure about the air toxics hotspots, how would we address source apportionment and seasonality, and which toxics are we planning on measuring and why, based on observed health effects?</p> <p>this is my 2nd meeting, I don't have enough information about the VOC, I have a little on the other two</p> <p>Resident (OEHHA): similar to Adam, I wonder what toxics, need to make sure you're looking for the right thing</p> <p>Jessica: need more info about the VOC, not sure if it would cover restaurants</p>
2	<p>-Areas have little data & more illness</p> <p>-More unknowns</p> <p>-Can we look at areas in San Pablo too?</p> <p>-Have jurisdiction to increase regulations -> need data</p> <p>-All green dots</p>	<p>What do fence line monitors track now?</p> <p>What data gaps already exist?</p>	<p>Wants more info/details</p> <p>What data gaps exist</p>
3	<p>We would like to know any issues</p> <p>Monitoring will help find new hotspots</p>	<p>No existing study answers the problems this project would answer</p> <p>Know the least about this</p>	<p>How can we pick a location to monitor:</p> <ol style="list-style-type: none"> 1. w/o screening data 2. we need preliminary data
4	<p>- Voted rank 1 due to background on health risks of toxics</p> <p>- Voted 1 because we are not getting any toxic data from initial 3 projects</p>	<p>- Voted #1 because objectives are to evaluate health impacts</p> <p>- Voted #1 due to lack of data on toxics</p>	<p>Q: If we do this option would we also be collecting PM 2.5? (A: yes)</p> <p>Q: Could we also use stationary monitors?</p>
5	<p>Concerned to pick this because there is no initial data to observe for this option</p>	<p>- Reading so much information can be overwhelming</p> <p>- Learning about the air toxics being monitored an dhave the information available</p>	<p>More info on toxics being monitored in hotspots</p>

Group	Additional Questions and Comments
1	
2	<p>Overall this group wanted to know more about specific methods Interest in knowing citations - why choose this approach? Concerns. Lots of technical questions. What are the toxics being monitored? Fenceline monitoring not accurate How do you triangulate Known areas of health concerns Bart Ostro & Heather, coal terminal Concerns don't cover petcoke BAAQMD only regulate stationary sources How we look at traffic going down 80 hwy PSE & Groundworks Black Carbon monitoring Why? Option 1 is important - need more information Distinguish between coal, petcoke Not from diesel Opt. 3 Need more data Need more information - more NOS Lack of options - Janet Concern at landfill/benzene/traffic Complementary - between Acclima project and Air District spatial hyperlocal/specific</p>
3	<p>- We are concerned these projects use reliable data - I don't know enough about any project to feel comfortable choosing</p>
4	<p>*Early discussion on what is meant by "urgency" *Discussion on complexity of measuring coal *Questions on if there is anything that can be done if traffic emissions are an issue *Would like to know what is the risk of not doing one option sooner than another *Do we have information on when coal activity takes place</p>
5	