



**Low Cost Monitoring Program
(LCMP)
Check-In: Cohort 48**

7:00 PM Monday, July 12, 2021

10:30 AM Tuesday, July 13, 2021

The Virtual Classroom

- Feel free to keep your mics on (mute if noisy)
- Use “Questions” tab in the control panel to ask questions, or raise hand
- All links will be placed in the “Chat” tab in the control panel. Comments can be added here as well.



This Meeting is Being Recorded

File Options View Help

- Audience view 100%
- Sharing
- Webcam
- Audio
- Dashboard
- Attendees: 1 of 1001 (max)

Attendees (0) Staff (1)

NAMES - ALPHABETICALLY

				Sue Miller
				Jane Doe
				Hank Smith

All All All

Search

- Polls (0/0)
- Questions
- Handouts: 0 of 5
- Chat

Quarterly Review
Webinar ID: 594-566-547

GoToWebinar



Your Name



Your Location



Household
Members with
You



Equipment
Working?

01



Favorite Food
to Cook/
Order In?



One Question?

LCMP Team



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1. Get questions answered re the cohort process
2. Share observations to date
3. Build on knowledge from Kick-off meeting
4. Introduce resources to access during the Cohort & beyond



Meeting Objectives

- ✓ Your data is not shared without either: 1) making it anonymous or 2) getting your permission.
- ✓ **Please**, “What is said in webinars, stays in webinars”. The recording of the webinar is only available to Cohort participants on the limited access website.

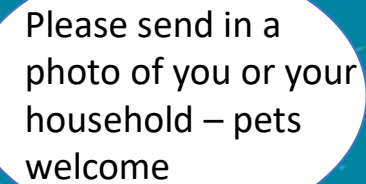
03

Confidentiality & Privacy

Cohort 48 Photo Collage



Under
Construction



Please send in a
photo of you or your
household – pets
welcome

Questions / Issues

Handwritten spreadsheet with columns for Sensor, Date, Location, and various numerical data points. Includes handwritten notes at the bottom.

Sensor	Date	Location	Temp	Humidity	CO	PM2.5	PM10	SO2	NO2	O3	Light	Bar	Wind	Wind Dir	Wind Spd	Wind Dir	Wind Spd	Wind Dir	Wind Spd	Wind Dir	Wind Spd		
Dykes	02/2	2nd floor	69.8	87	87	213	616	106	133	78	175	213	238	217	217	217	217	217	217	217	217	217	
Dykes	02/2	2nd floor	66	87	35	31	24	3	45	10	24	28	28	28	28	28	28	28	28	28	28	28	
CO2	02/2	2nd floor	660	580	236	666	666	670	664	656	639	689	691										
Dykes	02/3	1st	73.5	24	1350	210	739	178	238	29	304	332	334										
Dykes	02/3	1st	21	17	465	24	56	24	10	2	14	10	17										
Radiation	02/4	1st	X	X	X	X	X	X	X	X	X	X	X										
Radiation	02/4	1st	X	X	X	X	X	X	X	X	X	X	X										
CO	02/4	1st	0	0	0	0	0	0	0	0	0	0	0										
Radiation	02/4	1st	2.42	2.48	2.18	2.13	1.78	1.56	1.78	2.00	1.43	.83	1.10										
Radiation	02/4	1st	X	X	X	X	X	X	X	X	X	X	X										
Radiation	02/4	1st	X	X	X	X	X	X	X	X	X	X	X										
Dykes	02/4	1st	32.34	1015	1650	434	541	917	2385	5257	2240	5257	3160										
Dykes	02/4	1st	133	119	52	220	14	21	33	7.3	17	74	28										

Handwritten notes at the bottom of the spreadsheet:

- not sure if I reset sensor
- reads so weird today
- frustrated to observe
- turn on 11/20/21 / 11/20/21
- CO2 on 1/20/21
- avoid CO from fireplace
- for fireplace, try to keep it high
- noticed CO to 161/160
- check stove
- concern

Handwritten checklist form titled "SSP-SOHA" with various categories and checkboxes. Includes handwritten notes at the bottom.

Category	Item	Yes	No	NA	Other
OBSERVATIONS / INCIDENTS	Unusually windy	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Clear sky	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Food getting	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Local wood / Fresh burning	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify in notes)	Other (specify in notes)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Other (specify in notes)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Occupancy changes	Use of Canine (specify breed)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Coating (specify in notes)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Equipment in Use (e.g. humidifier)	Equipment in Use (e.g. humidifier)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Operation of clothes dryer	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Windows Clean (specify time in notes)	Windows Clean (specify time in notes)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Changing (specify in notes)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Operation of clothes dryer	Operation of clothes dryer	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Operation of clothes dryer	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Operation of clothes dryer	Operation of clothes dryer	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Operation of clothes dryer	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Spills in Dykes (specify cause if known)	Spills in Dykes (specify cause if known)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Spills in Dykes (specify cause if known)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	Other (specify)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Other (specify)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Handwritten notes at the bottom of the checklist:

- note: Barbara Doyle in Bathroom in NBR so subject to shower apron
- sensor - 11/20/21 / 11/20/21
- turn on 11/20/21
- CO2 on 1/20/21
- noticed CO to 161/160
- check stove
- concern

- Expectations?
- Process?
- Log & Incident Forms?

- Excel spreadsheets available on limited access website –
- Feel free to customize, or complete electronically

1. Discuss your numbers & their possible sources.
2. What do the numbers mean? How high is too high??
3. Possible solutions



Observations

Looking at Your Numbers



- Please have your logs ready



CO (Carbon Monoxide) Observations

Do you have ZERO
or something else?



Radon Observations



Basement & 1st floor

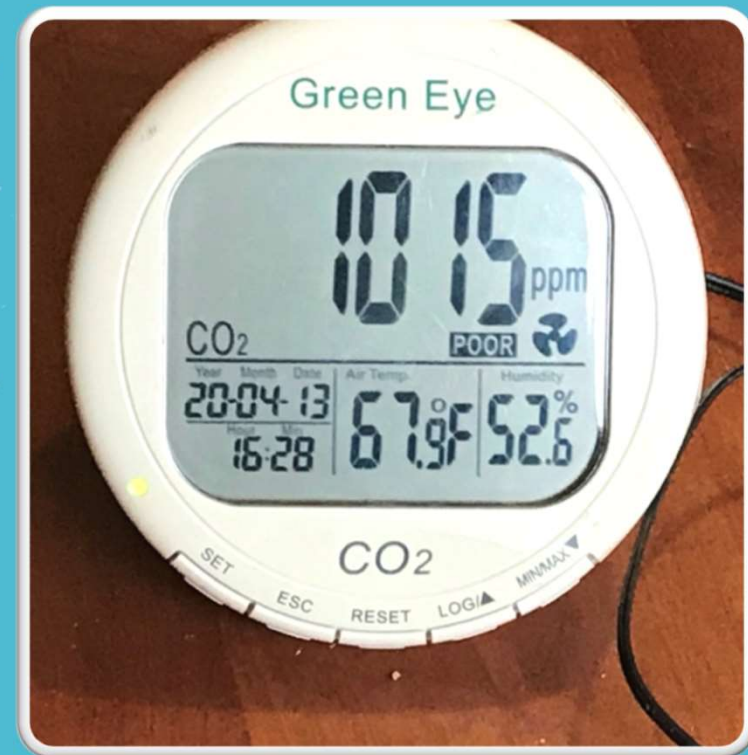
One-day reading?

Other observations?

CO₂ (Carbon Dioxide) Observations

Typical reading?

Any over 1000 ppm?



Outdoor Dylos Observations



City, State

Lowest?

Highest?

Indoor (and Roamer) Dylos Observations

What is your typical reading?

What spikes have you seen?
What caused them?



1. Reduce air exchange from outside

1. Close windows
2. Tighten home or building

2. Reduce indoor sources

1. Use an effective ducted kitchen hood!
2. Use induction cook top & other good practices w/ cooking

3. Reduce resuspension

1. HEPA vacuum; thoroughly clean hard surfaces
2. Walk-off mats
3. Get rid of carpets, old upholstered furniture

4. Filter the air

1. Portable air cleaners
2. DIY Fan Filters
3. Central air handler (furnace, AC, or ventilation)

05



4 Ways to Reduce Indoor Particles

Reduce Cooking Emissions

- Check out ROCIS guidance document, webpage, & online group
- ROCIS ISSUE BRIEF, *Ducted Range Hoods: Recommendations for New and Existing Homes*
<http://rocis.org/kitchen-range-hoods>
- Online Kitchen Ventilation group on Building Performance Community

Info on joining:

<http://rocis.org/rocis-lcmp-cohort-48>



- **Outdoor Air Quality**

- Breathe Collaborative <https://breatheproject.org/>
- Purple Air Map <https://www.purpleair.com/map>
- CMU CREATE Lab Smell Pittsburgh <https://smellpgh.org>
- CMU CREATE Lab VOC Monitors <https://voc.createlab.org>
- US EPA Air Now <https://www.airnow.gov>

- **General Indoor Air Quality Info**

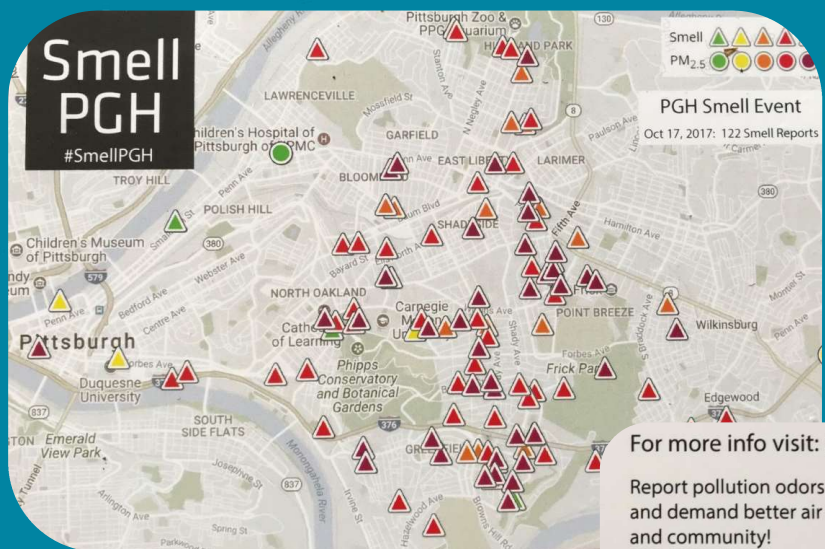
- Canadian Residential Indoor Air Quality Guidelines <https://www.canada.ca/en/health-canada/services/air-quality/residential-indoor-air-quality-guidelines.html>
- ROCIS website <https://ROCIS.org>
- IAQ Radio - archives of 500+ shows <https://www.iaqradio.com/>



06


Resources


Resources: Smell PGH & Purple Air

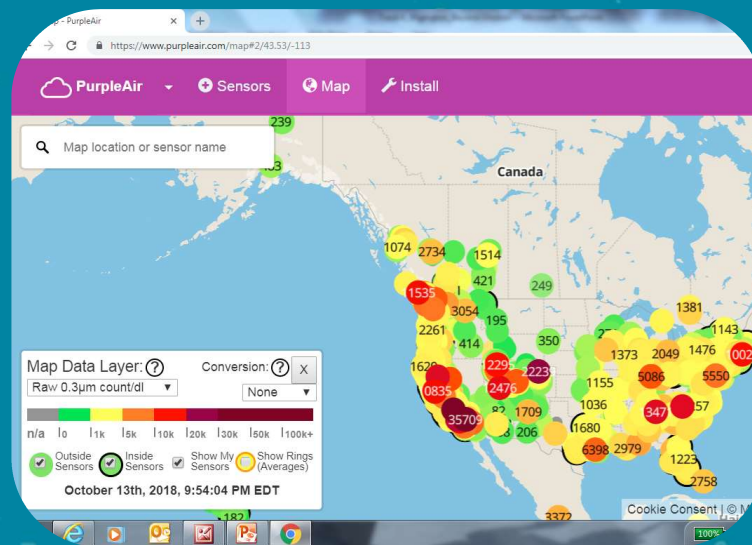


For more info visit: smellpgh.org

Report pollution odors in your neighborhood, and demand better air quality for your family and community!

 Download on the App Store smellpgh.org/ios

 GET IT ON Google Play smellpgh.org/android



<https://www.purpleair.com/gmap>



Specifically for LCMP Participants

- Check Cohort 48 webpage for links!
- Download Smell Pittsburgh App
- Join our private ROCIS LCMP group on Facebook
- Follow ROCIS on Facebook, LinkedIn, & Twitter
- Great Resources:
 - Join the Building Performance Community
 - “Low-cost Residential Particle Monitoring” online group
 - Kitchen Ventilation group

ED7



Slide 20

ED7 leave group links??
Emily Dale, 3/23/2021

Accessing Cohort 48 Resources

- Limited Access Website page*
 - Handouts
 - Forms
 - Slide decks from meetings
 - Links to recordings

<http://rocis.org/rocis-lcmp-cohort-48>

***This link will be in the follow up e-mail!**



Schedule & Topics

75-minute Online Meetings

7 PM Mon. & Thurs., Repeated 10:30 AM Tues. & Fri.

Important Dates:

July 15 Make sure you have administrator access to your computer

Aug 10 Kit Pick up



Meetings in orange are required.

Meetings:

July 15 or 16

July 19 or 20

July 22 or 23

July 26 or 27

July 29 or 30

Aug 2 or 3

Aug 5 or 6

Dylos Downloading

What are Good Numbers? Health Risks?

Online Resources

Behavioral Interventions

ROCIS Filtration Interventions

Health Impacts of Particles and YOUR questions Answered

Wrap-up Meeting

Dylos Download Meeting

Thursday 7/15 or Friday 7/16

• Preparation

- Laptop with Software Downloaded (both!) & Computer re-booted
 1. Drivers for Trendnet cord;
 2. Download Putty (Windows) or ZOC (Mac)
 - (refer to **GREEN** Dylos instructions/ **White** Mac instructions)
 3. Identify USB com port number (Windows OS)



• Have with you

- White Trendnet cord
- Your computer
- One Dylos machine
- Dylos instructions sheet
 - (refer to **GREEN** Dylos instructions/ **White** Mac instructions)



Need help?
Rob robb@rocis.org

Prior to Downloading for the 1st Time

- Set-up a folder on your computer for downloads and other ROCIS things
- Write the room name on the “I”, “R”, or “O” label on each dylos



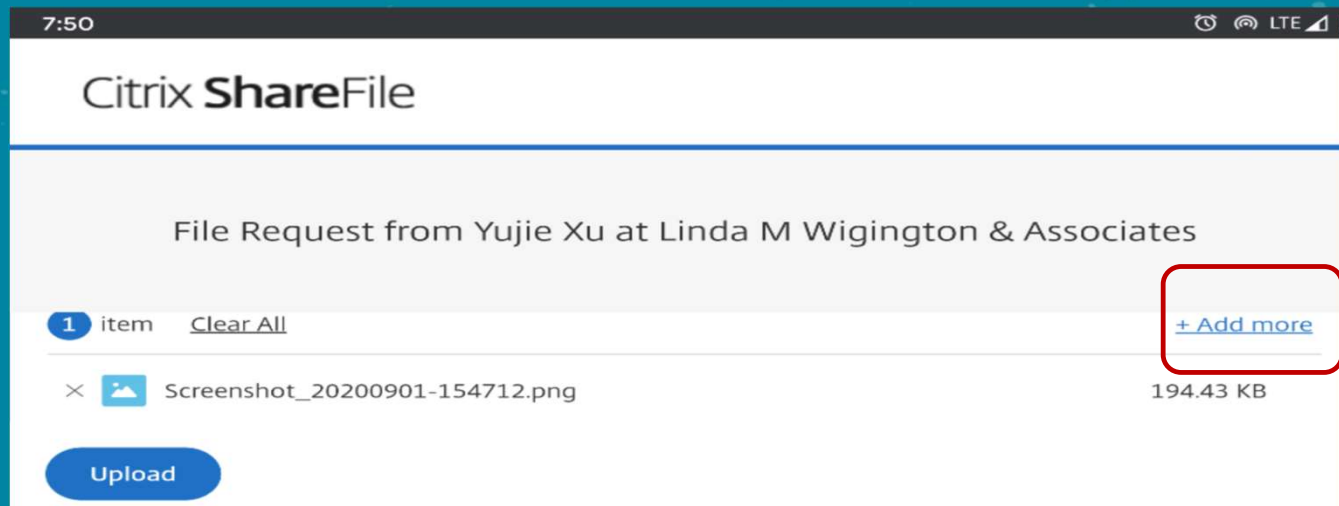
Uploading Files to Us

Bookmark
This Site!

- ShareFile upload Link:

<https://lindawigington.sharefile.com/r-r14c810b22454a529>

- Upload multiple files at once
- Use for photos, Dyls downloads, & logs
- We get immediate notice of upload, you do not



- Continue logging readings/observations
- Register for all remaining meetings
- Send family photo if you haven't already
- Follow steps to prepare for Dylos downloading
- Join Dylos downloading meeting
 - (July 15-16)
- Set up download reminder (on phone)
- **After Dylos Download webinar (Thursday or Friday):**
 - 1st Dylos download (by Saturday evening 7/17)
 - Upload Dylos data using Citrix
 - Upload the log & incident reports using Citrix



07

Next Steps

Need Help? Who to Contact

- **Coordination & Logistics:**

- Emily Dale - text: 724-833-8223 or ke_dale@hotmail.com

- **Equipment issues:**

- Rob Busher - text: 412-437-8454 or robb@rocis.org
- Samantha Tottoni - text: 217-390-1842 or skc35@pitt.edu

- **Interpretation of monitoring readings:**

- Don Fugler - dfugler@gmail.com
- Rob Busher – text: 412-437-8454 or robb@rocis.org

- **Social Media Postings:**

- Jessie Kester - text: 814-937-7365 jessicalkester@gmail.com



1. Get questions answered re the cohort process
2. Share observations to date
3. Build on knowledge from Kick-off meeting
4. Introduce resources to access during the Cohort & beyond



Objective Review

Thanks!

**Thanks to Phil Johnson & The Heinz Endowments for
support of the ROCIS initiative
(Reducing Outdoor Contaminants in Indoor Spaces)
and our 385+ LCMP participants**

QUESTIONS?



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→ cc someone else

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