

Acorn Woodland and EnCompass Campus Indoor Air Testing Update #3

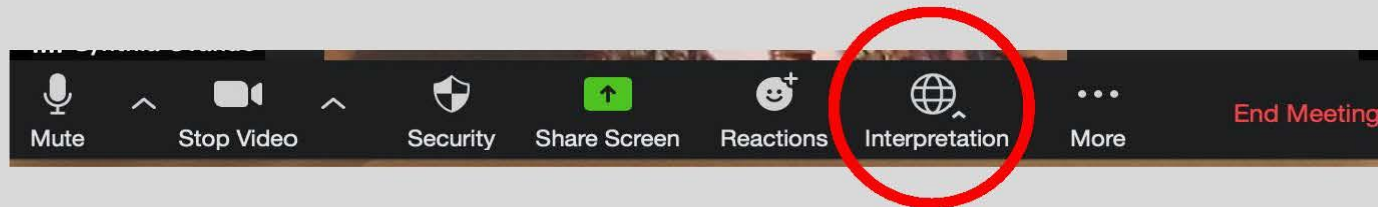
Presentation to Acorn Woodland/EnCompass
Families and Staff



March 11, 2021
Via Zoom Webinar

Interpretation ↔ Interpretación ↔ 翻譯

1 Go to Controls
Vaya a los controles / 去 Control



2 Click “Interpretation”
Clic en “Interpretación”
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3 Choose a Language
Escoja un idioma / 選擇語言

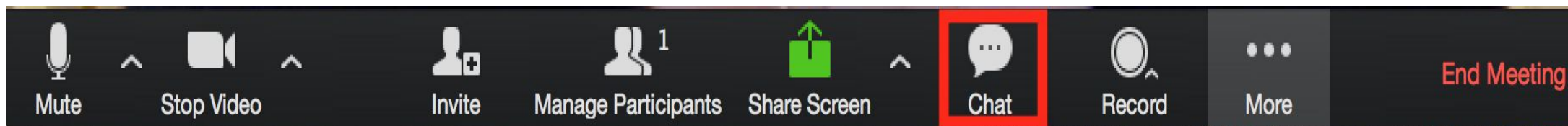


Asking Questions & Giving Input During the Presentation

The chat feature in Zoom allows webinar attendees to ask questions during the webinar.

As an attendee, **Chat** will be in the controls at the bottom of your screen.

- When you click on chat, the chat window will appear.
- It will be on the right if you are not in full screen. If you are in full screen, it will appear in a window that you can move around your screen.
- Type your message and press **Enter** to send it



Agenda

Item	Facilitator
Welcome, Goals, Roles, Agenda, Norms	Christie and Monica
Environmental Justice in Oakland	Site Leaders
Background and Summary of Prior Community Meetings	OUSD Staff
Background on Testing	Partner Agencies, OUSD Staff
Analysis on Testing Results	Partner Agencies, OUSD Staff
Community Q and A	Partner Agencies, OUSD Staff
Overview of Next Steps	Partner Agencies, OUSD Staff
Close and Appreciations	Monica and Christie

Norms

- Check for understanding
- Surface assumptions
- Share divergent views
- Presume positive intent
- No personal attacks



Desired Outcomes

- Provide our school community with:
 - an update on indoor testing and follow up actions from last community meeting
- Collect questions from families and staff
- Provide next steps and follow up

Today's Panelists: OUSD Staff

Monica Thomas	Network Superintendent
Christie Herrera	Executive Director of Early Learning
Julissa Lambert-Yank	Principal, Acorn Woodland Elementary
Minh-Tram Nguyen	Principal, EnCompass Academy
Shanna Vasquez	Principal, Acorn Woodland CDC

Rebecca Littlejohn	Risk Management Officer
Josh Daniels	General Counsel
John Sasaki	Director of Communications
Tadashi Nakadegawa	Deputy Chief of Facilities

Today's Panelists: Partner Agencies

[Alameda County](#)
[Department of](#)
[Environmental Health](#)

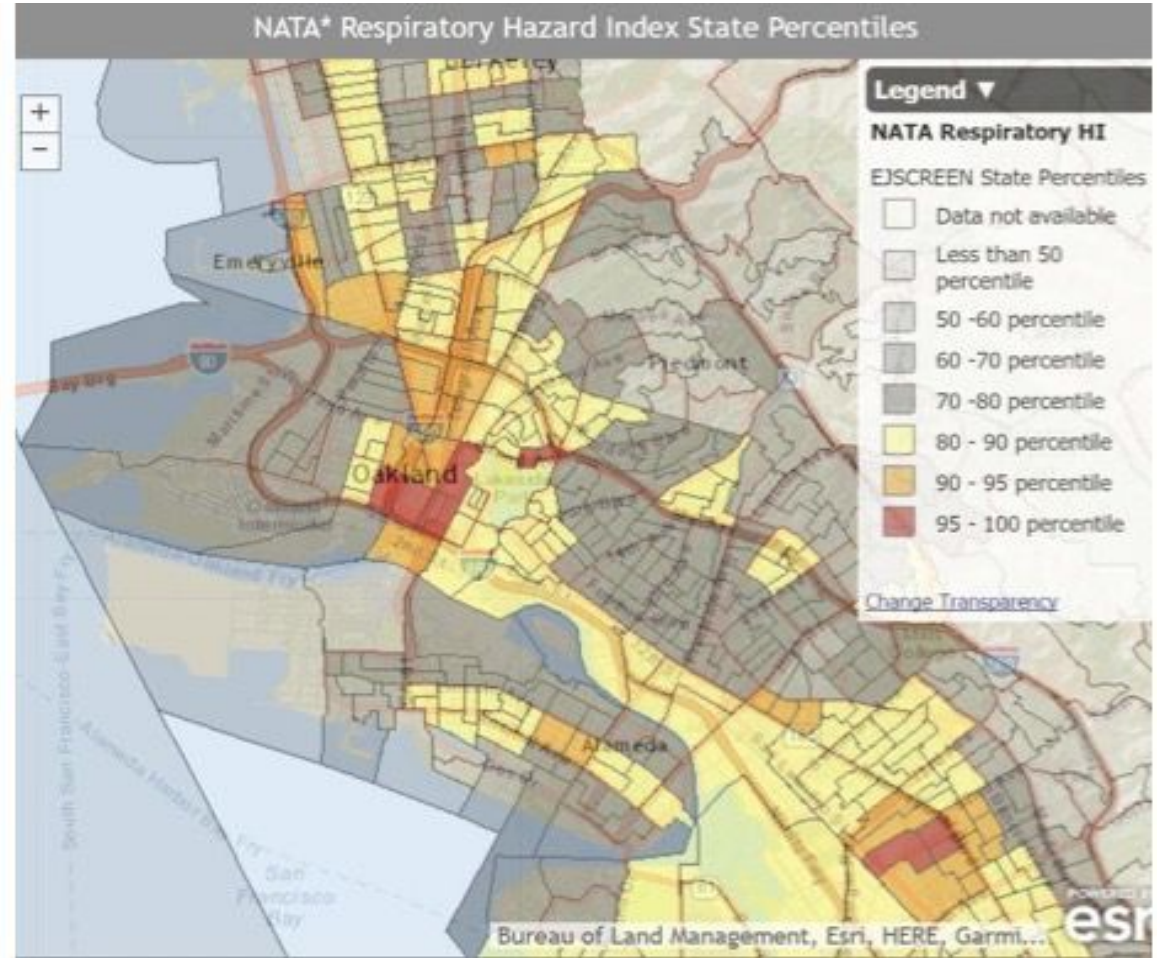
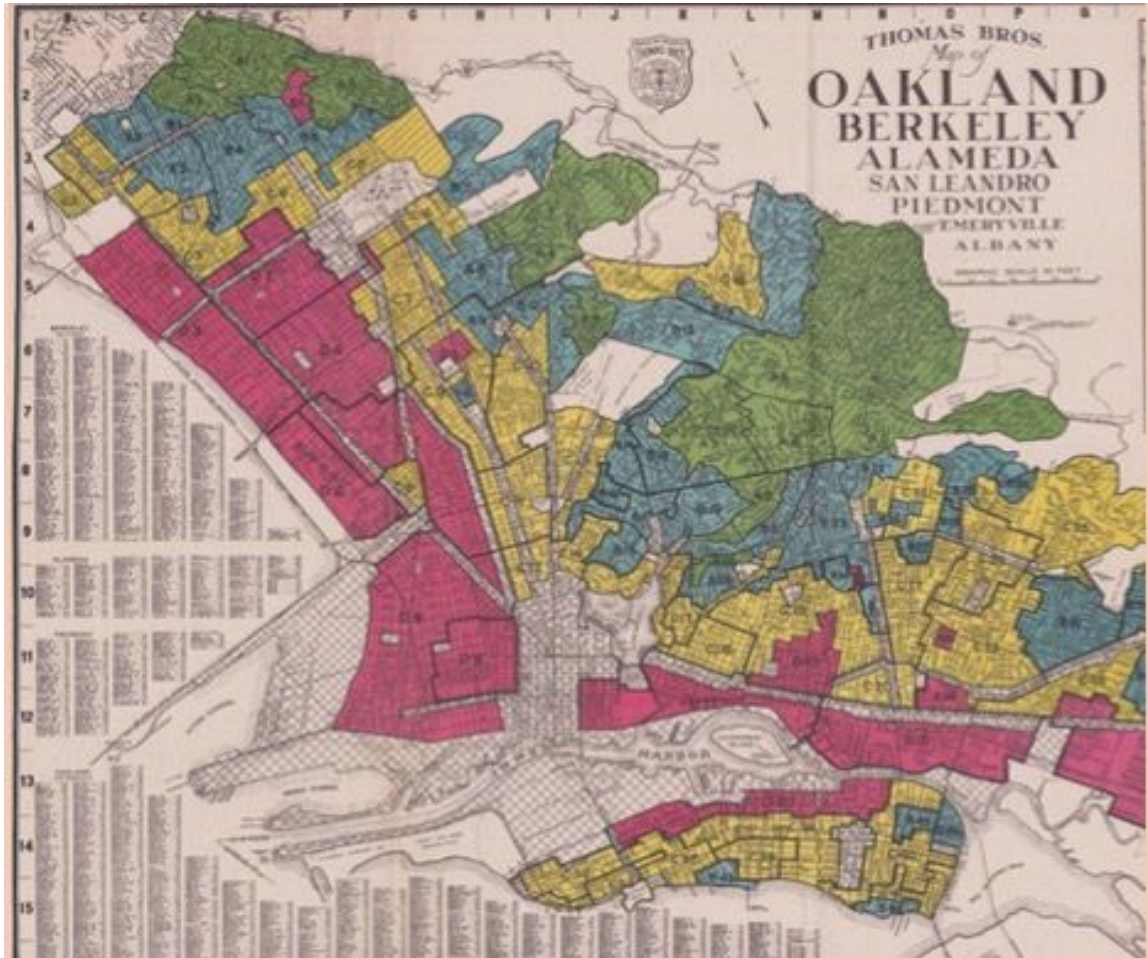
**Dilan Roe &
Jonathan Sanders**



Alameda County
Department of Environmental Health

Background and Summary Of Prior Community Meetings

Environmental Injustice in Oakland



Timeline

- September 3 Community Meeting
 - Informed students, staff, and families about soil vapor testing and need for indoor air testing
 - Responded to questions
- November 19 Community Meeting
 - Shared results of indoor air testing and explained need to develop school-specific “screening levels”
 - Responded to questions

Webpage & FAQs

www.ousd.org/environment/acornencompass

Environmental Testing Frequently Asked Questions at Acorn Woodland Elementary/EnCompass Academy/Acorn Woodland CDC Campus

1. Why did OUSD test the soil vapor at the Woodland Elementary/EnCompass Academy/Acorn Woodland CDC ("Acorn/EnCompass") Campus?

The Alameda County Department of Environmental Health ("DEH"), along with the Department of Toxic Substances Control (DTSC), oversees investigations and cleanup of hazardous materials releases to the environment. After Trichloroethylene (TCE) was found in groundwater under McClymonds High School in February 2020, DEH staff began to examine whether there were any sites overseen by DEH near OUSD school campuses. The Acorn/EnCompass Campus was identified as a result and DEH recommended soil vapor testing in July 2020.

2. When did OUSD test the soil vapor and when did OUSD get the results?

As soon as OUSD received the recommendation to test the soil vapor, OUSD enlisted the services of Professional Service Industries (PSI) to test the soil vapor. The testing plan was submitted to DEH on July 23 and was reviewed and approved by DEH on July 29. Testing commenced on August 5th and 6th. The raw results were provided to OUSD on the afternoon of Thursday, August 20.

3. What did OUSD do when they received the soil vapor test results?

OUSD received the raw results from the soil vapor tests on Thursday, August 20. On Friday (August 21), Monday (August 24), and Wednesday (August 26), OUSD met with DEH staff and/or DTSC staff to understand the implications of the raw results and to determine next steps. After the meeting on Wednesday (August 26), DTSC wrote to OUSD stating that it did *not* recommend closing the Acorn/EnCompass Campus or imposing access restrictions to buildings. However, DTSC did recommend conducting indoor air testing of all buildings. After receiving those recommendations, District Office staff met with Acorn/EnCompass site leaders on Wednesday (August 26) and Thursday (August 27) to inform them of the situation and to discuss how best to inform staff and the community. Communications (email and robocalls) went out Thursday (August 27) evening.

4. What is PCE and what are its potential health impacts?

Perchloroethylene (PCE) or tetrachloroethylene, as it's also known, is a colorless liquid with a mild, chloroform-like odor. PCE is used in many industries. It's used to dry clean fabrics, manufacture other chemicals, and degrease metal parts.

This Fact Sheet on PCE (<https://www.atcdp.cdc.gov/tox/facts/facts18.pdf>) contains helpful information, including the following:

- "Studies in humans suggest that exposure to PCE might lead to a higher risk of getting bladder cancer, multiple myeloma, or non-Hodgkin's lymphoma."
- "It is not known whether children are more susceptible than adults to the effects of PCE."

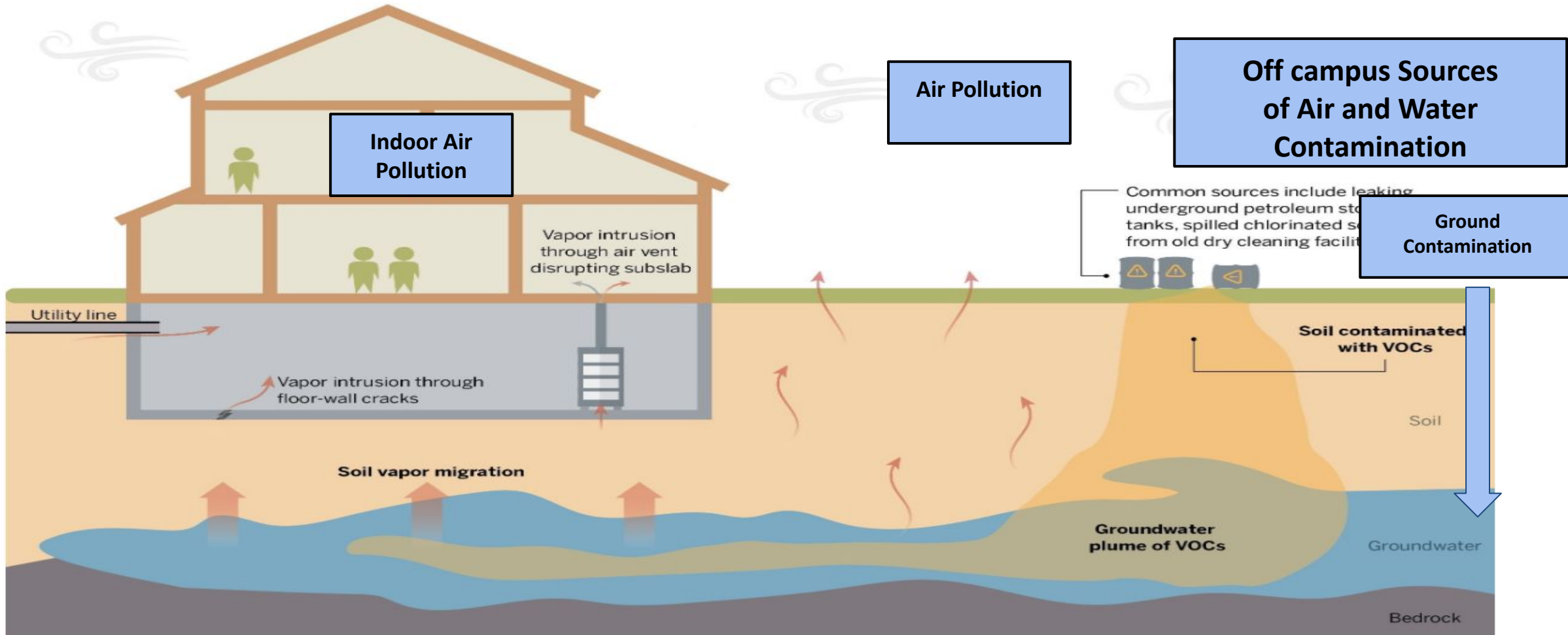
Example FAQ Question & Response

Question: *Why did OUSD test the soil vapor at our campus?*

- After Trichloroethylene (TCE) was found in groundwater under McClymonds High School in February 2020, Alameda County Department of Environmental Health (“DEH”) staff began to examine whether there were any sites overseen by DEH near OUSD school campuses
- The Acorn/EnCompass Campus was identified as a result and DEH recommended soil vapor testing in July 2020

Background on Testing

What is Vapor Intrusion?



Step 3 Completed



Indoor Air Testing



Sub Slab Testing



Test for Vapor Intrusion

- The District hired a contractor to conduct additional tests to determine more definitively whether there is vapor intrusion
- The tests were administered in December 2020
- The tests were consistent with some vapor intrusion from the groundwater

Analysis of Testing Results

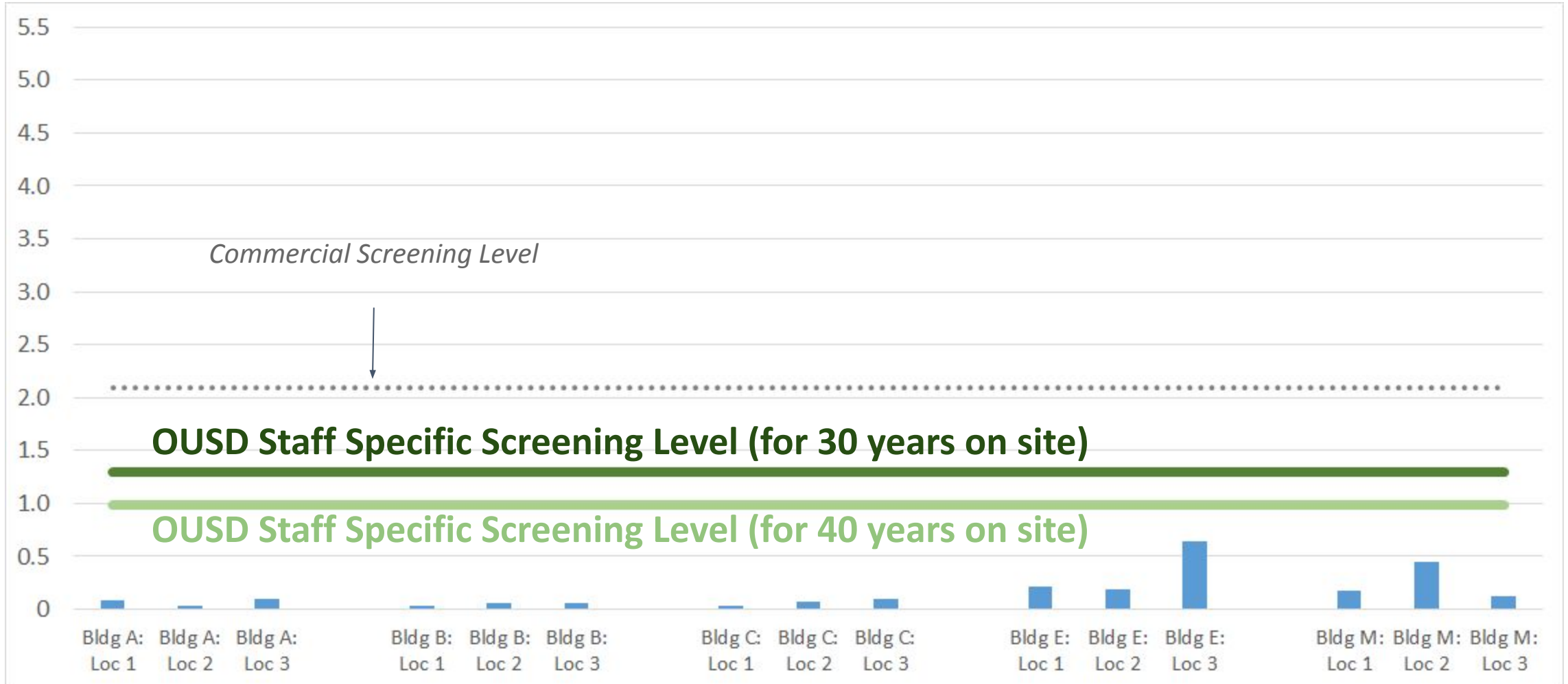
Environmental Screening Levels for Indoor Air

- Below screening levels – **no further action required**
- Above screening levels – **further investigation is warranted**
- Threshold set at one in a million risk of adverse health impact:
 - Odds of flipping heads on a coin 20 times in a row: 1 in a million
 - Odds of being hit by lightning in the U.S. in any given year: 1 in 700,000

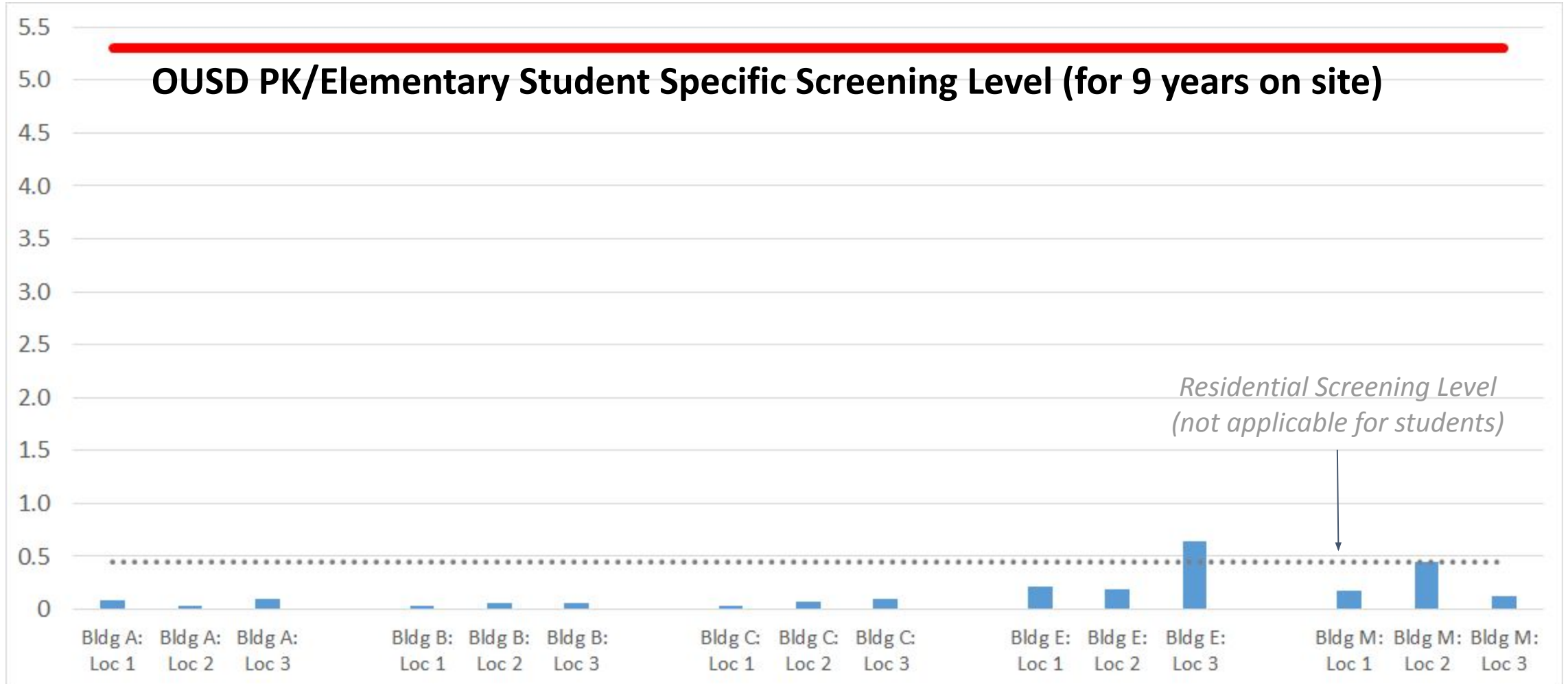
Environmental Screening Levels for Indoor Air

- **Commercial – Not modified for staff on campus**
 - 8 hours/day, 250 days/year exposure
 - 25 years
 - Adult
- **Residential – Doesn't apply to students**
 - 24 hours/day, 350 days/year exposure
 - 25 years
 - Child
- **Need to determine School Specific Screening Levels**

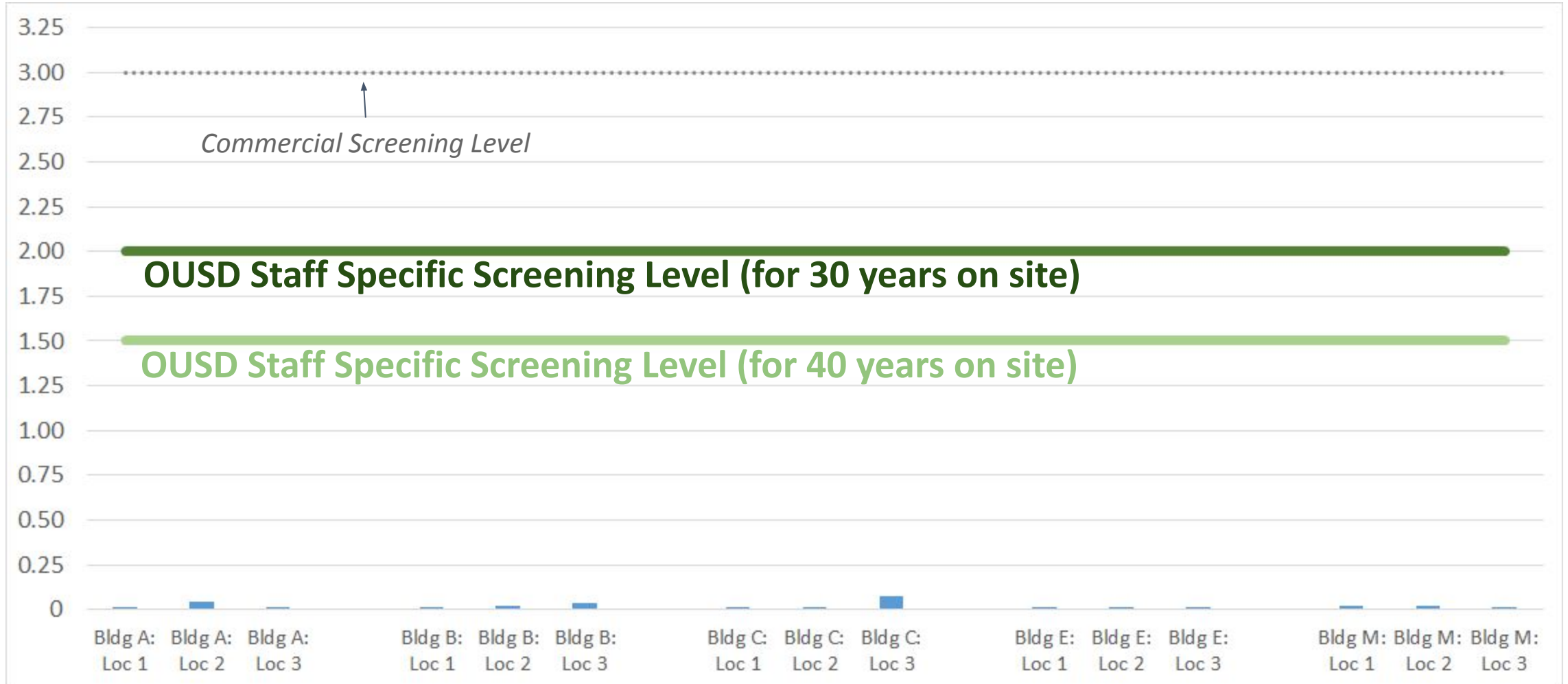
Indoor Air Results for PCE OUSD Staff Specific Screening Levels



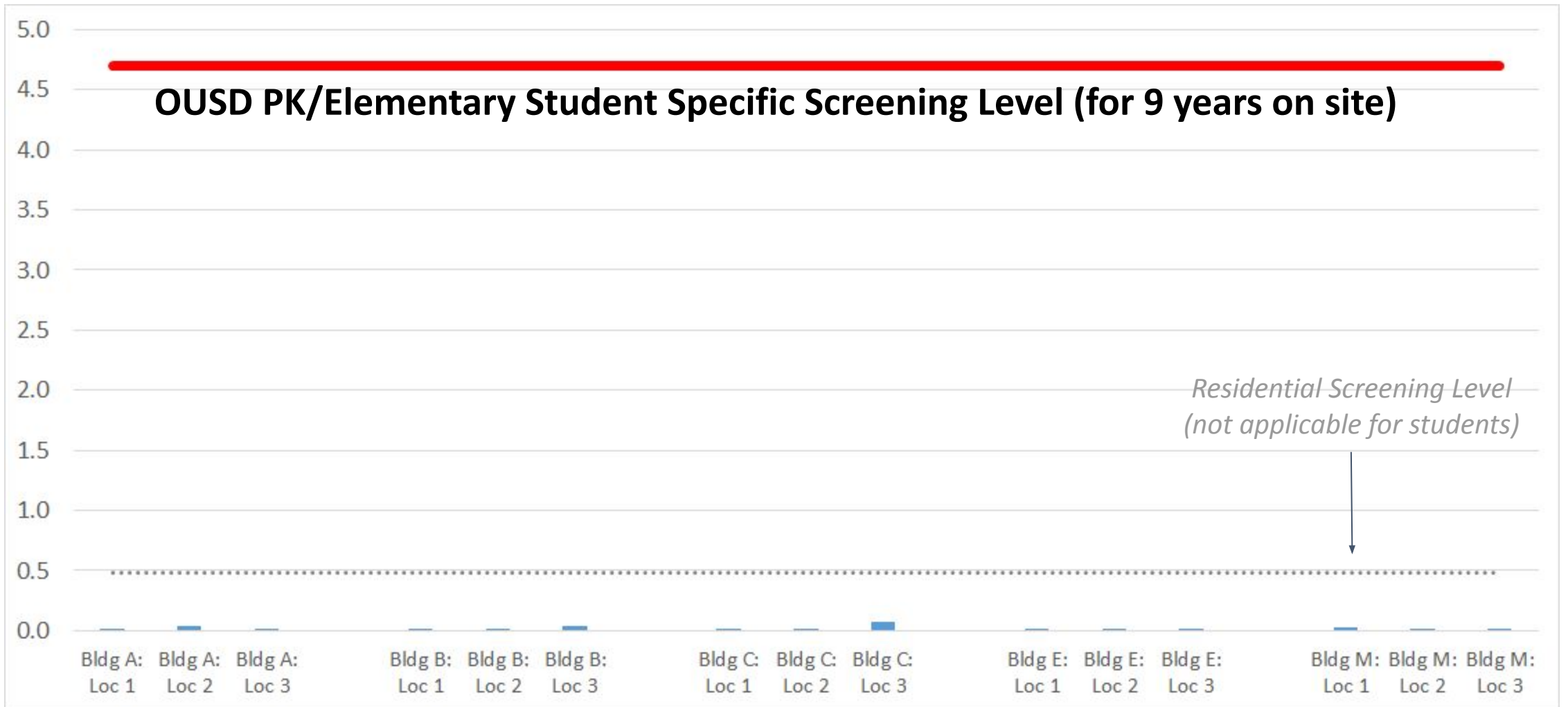
Indoor Air Results for PCE OUSD PK/Elem. Student Specific Screening Levels



Indoor Air Results for TCE OUSD Staff Specific Screening Levels



Indoor Air Results for TCE OUSD Elem. Student Specific Screening Levels



Takeaways

Indoor Air

- Evidence suggests that chemicals found in indoor air are coming from under building (although it is possible that common cleaning products used inside buildings are also contributors)
- All concentrations are below PK/Elementary Student Specific Screening Levels
- All concentrations are below OUSD Staff Specific Screening Levels
- OUSD will purchase air filters for cafeteria in Building E and the kitchen Building M

Reminder

Outdoor Air

- Contaminants found in outdoor air are impacting indoor air
- Installed air filters and purifiers (for COVID mitigation) do not filter out all contaminants (specifically, organic pollutants)
- OUSD is researching options and funding to improve indoor air quality from outdoor air impacts

*See last slide for contact information for
Bay Area Air Quality Management District*

Type Your Questions into the Chat Box



We Will Try Our Best to Address All Questions Today!
A Follow-Up Email Will Be Sent to Respond to Any Unanswered Questions.

Overview of Next Steps

Moving Forward

- District is working with Department of Toxic Substances Control (DTSC) to review and provide feedback on PK/Elementary School and OUSD Staff Specific Screening Levels
- If anything changes, we will let students, families, and staff know and we'll convene another community meeting if needed
- Please submit any additional questions to the below link and we will follow up

<https://tinyurl.com/AcornEnCompassQuestions>

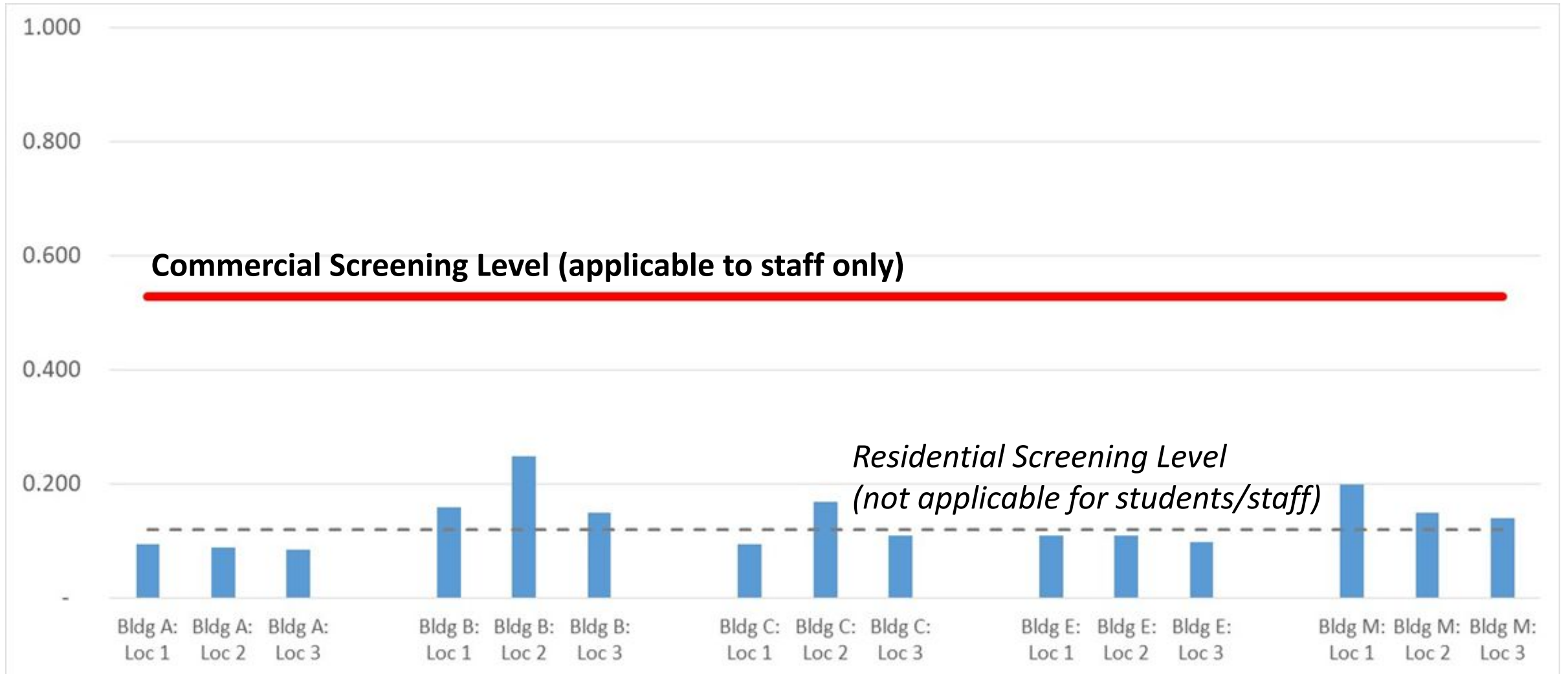
Who to Contact?

- Rebecca Littlejohn, Oakland Unified School District, 510-879-1611, rebecca.littlejohn@ousd.org
- Dilan Roe, Alameda County Environmental Health, 510-567-6767, dilan.roe@acgov.org
- Cheryl Prowell, Department of Toxic Substances Control, 510-540-3967, cheryl.prowell@dtsc.ca.gov
- *For community environmental concerns:* Ed Reiskin, Assistant City Administrator, EReiskin@oaklandca.gov
- *For Outdoor Air Questions:* Henry Hilken, Bay Area Air Quality Management District, 415-749-4642, hhilken@baaqmd.gov

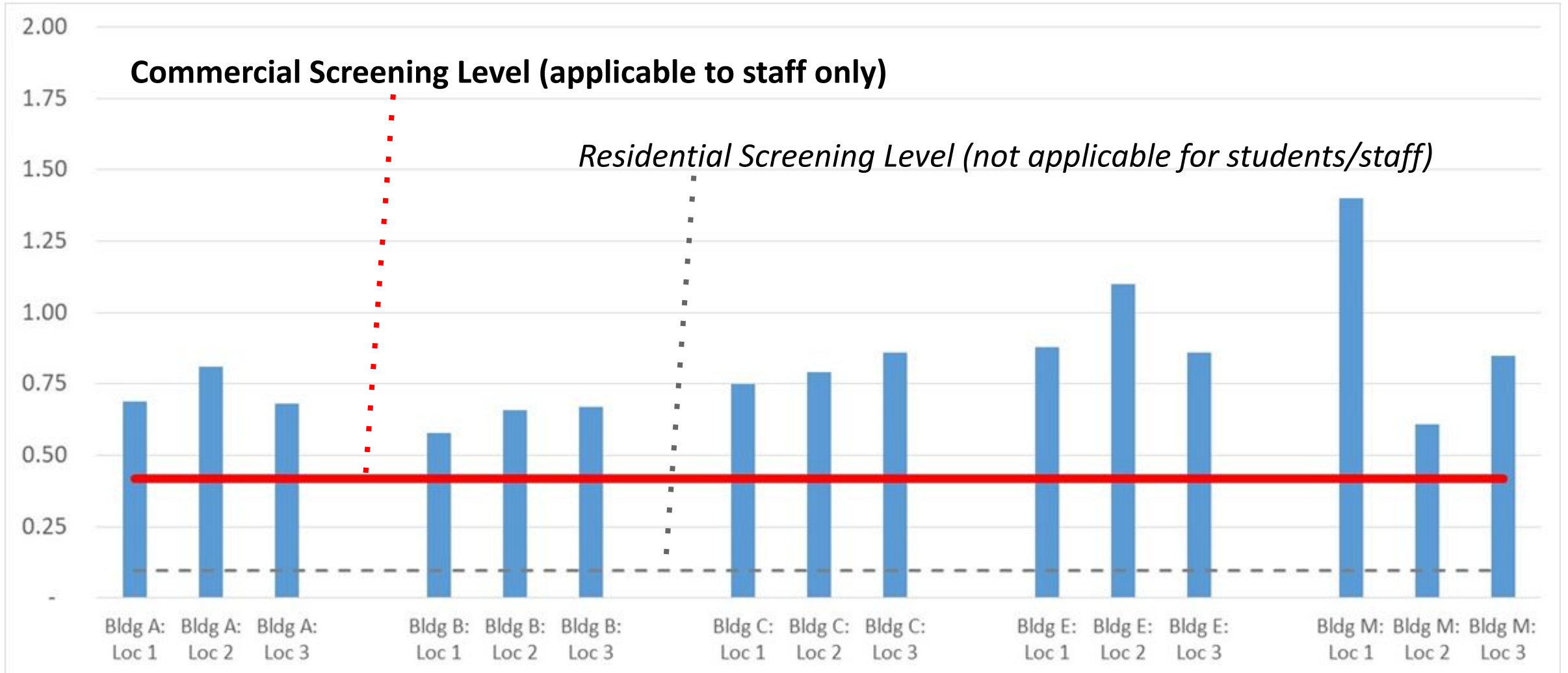
Thank you for joining us this evening!

Indoor Air Results

Chloroform with Screening Levels

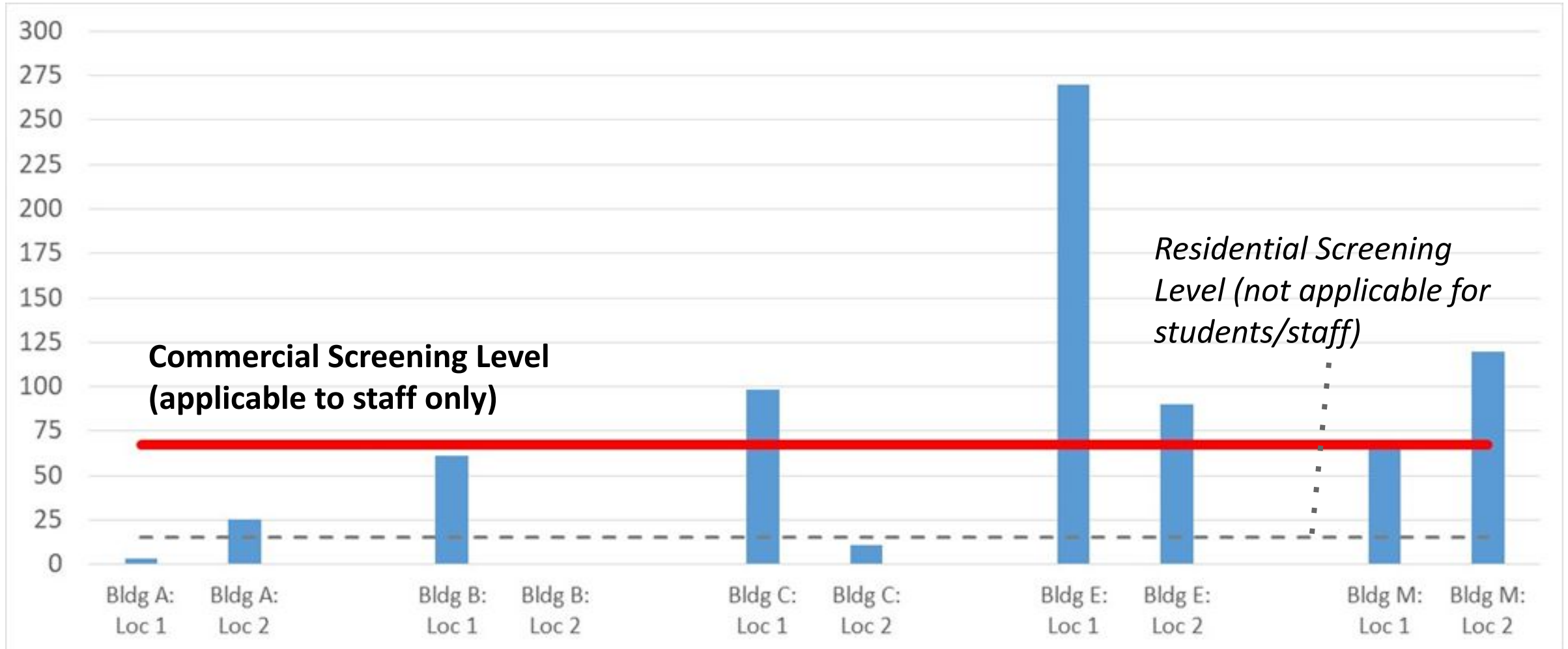


Indoor Air Results Benzene with Screening Levels

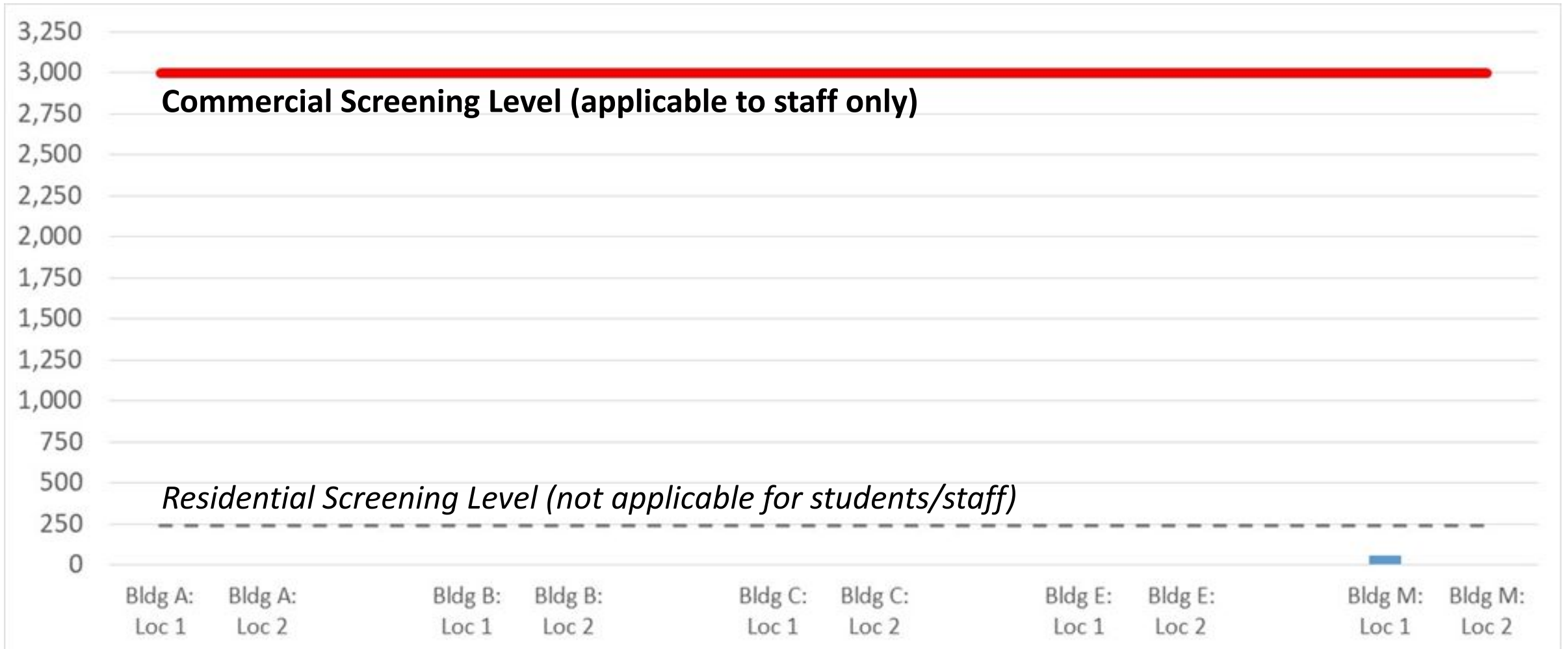


Sub Slab Results

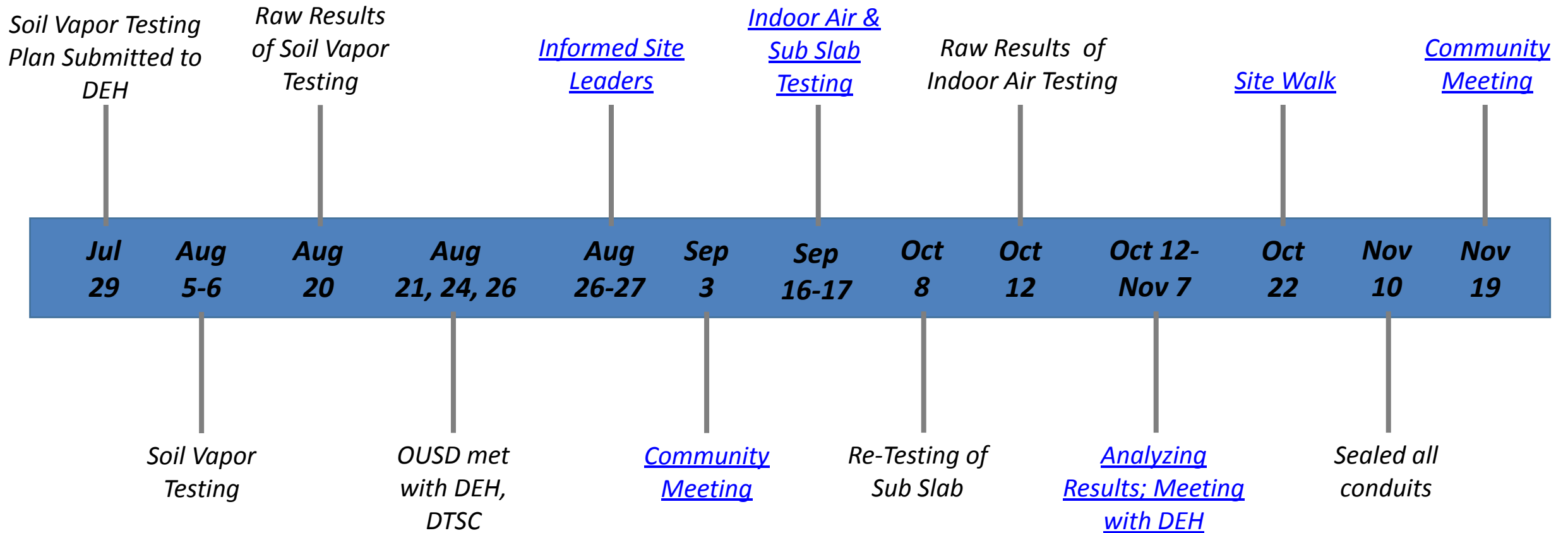
PCE with Screening Levels



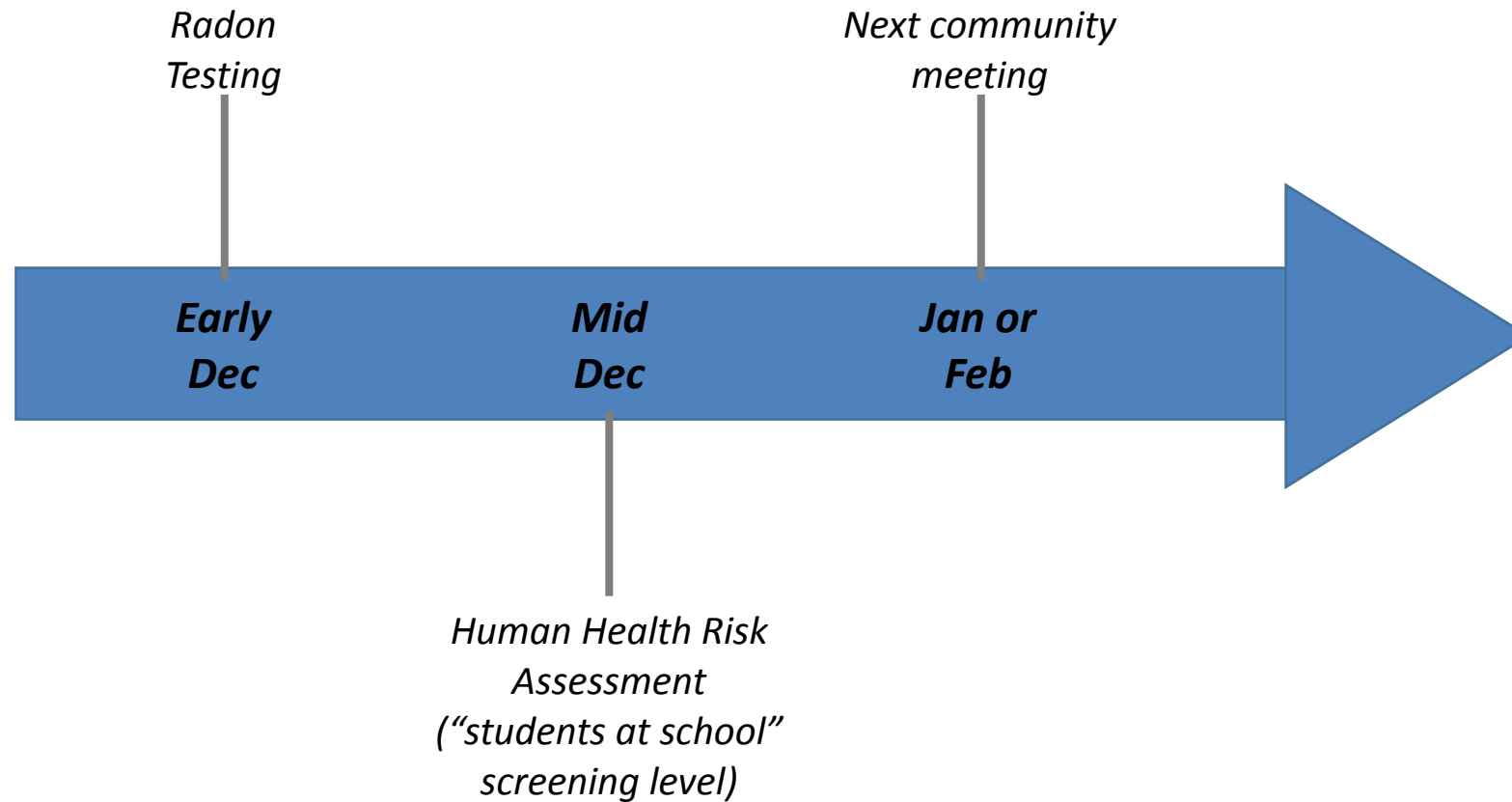
Sub Slab Results TCE with Screening Levels



Timeline Highlights (what has happened)



Timeline Highlights (what will happen)



Human Health Screening Levels

Different screening levels are used by environmental agencies to evaluate human health risk

- Environmental Screening Levels (DTSC / Regional Water Board): based off long term, consistent exposure and are used for evaluating vapor intrusion risk
- Occupational Screening Levels (OSHA): based on short term exposure and are meant to protect worker health

**Environmental Screening Levels are significantly lower than
Occupational Screening Levels**

Takeaways

Vapor Intrusion

- Some chemicals found underneath the building were found in indoor air
- Evidence suggests that chemicals found in indoor air are coming from under building (although it is possible that indoor air sources are also contributors)