



EPA Citizen Science Project

Mobile App for Reporting Odors

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Community Leader Meeting
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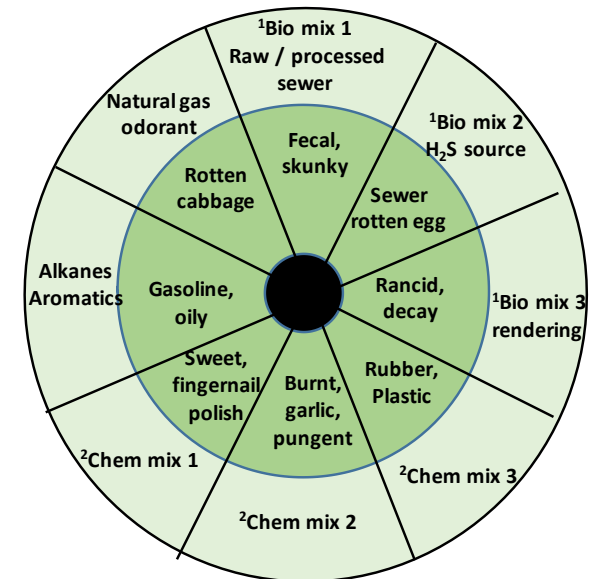
- Project was funded! (*selection announced in July*)
- The project will involve...
 - Development of a mobile phone app that can be used by the local community to report odors
 - Odor reports collected through the app will be sent to Louisville's new Accela system (for complaint tracking)
 - Connecting odor observations to measurements (*outside of app*)
 - Placing canister systems at 2-3 locations around to community to collect samples during odor events (*based on app reports*)
- We plan to pilot test the mobile app in the Rubbertown area (*tentatively starting Spring/Summer 2019*)



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- Some of the app features include...
 - Automatic date/time stamp
 - Automatic location stamp (anonymous)
 - Automatic collection of temp, wind speed, etc.
 - User enters information about the odor
 - Description of odor (using odor wheel)
 - Duration of odor
 - Intensity of odor (mild, moderate, severe)
 - Health symptoms experienced (anonymous)
 - Map to view all odor reports on current day or in the past
- We are still brainstorming on specific features to include

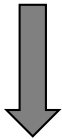
Odor Wheel Example



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How would an odor app be used?

STEP 1: Citizen smells odor

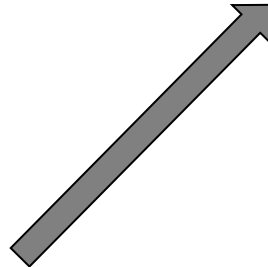


STEP 2: Citizen opens mobile app and enters information about the odor



- ✓ What odor do you smell?(select from odor wheel)
- ✓ What is the intensity of the odor?
- ✓ How long did the odor last?
- ✓ Any health symptoms?

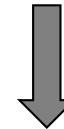
**Date/Time, meteorology, and location automatically recorded*



STEP 3: Information collected and stored in app for users to view. Information sent to local complaint tracking system (where applicable)



Odor Report (Example)(:
Date: 7/30/18, 4:00PM
Odor: Chemical, rubber
Intensity: !!!!
Health symptoms: eyes burn



Step 4: Connect odor observations with canister measurements (outside of app) to understand odors and sources



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Next Steps...

- Paperwork, lots of paperwork!
- Figuring out technical approach for developing app (*coding, build into existing apps, etc.*)
- Meet with community members (*likely Fall 2018*) and LMAPCD to obtain feedback on mobile app features
- Recruit small focus group to test the app for 6 months (*pilot testing starting Spring/Summer 2019*)
- Make app available community wide

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