Application of Citizen Science Risk Communication Tools in a Vulnerable Urban Community

Purpose
A public participatory geographical information systems (PPGIS) demographic, environmental, socioeconomic, health status portal was developed for the Stambaugh-Elwood community in Columbus, OH. A soil study was conducted at SE residences.

Impact
The results demonstrated that eight metals occurred at statistically-significantly greater levels than natural background levels, but most were below risk-based residential soil screening levels.

This study demonstrates that community-led coalitions in collaboration with academic teams and state agencies can effectively address environmental concerns.

This data when combined with the USEPA EJ Screen tool data for 43207 suggests that the Stambaugh-Elwood community is vulnerable.

Ohio State Colleges/Units Involved
- School of Environment and Natural Resources
- Division of Environmental Health Sciences
- Division of Epidemiology
- College of Public Health
- Center for Clinical and Translational Science

Community Partners Involved
- Columbus Public Health
- Ohio-Environmental Protection Agency
- Southside Health Advisory Committee
- Stambaugh-Elwood Citizens for the Environment
- VERTICES, LLC
- Universities Space Research Association at NASA, Marshall Space Flight Center

How you can get involved:
- Participate with us in community mapping of Southern Gateway communities
- Provide funding to support community mapping projects
- Attend Southside Health Advisory Committee meetings
- Provide support for student projects
- Provide support for maintaining community PPGIS portal

To get involved, contact:
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