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## Culture Shift: Strengthening the Role of Environmental Health in Public Health Performance Improvement Efforts

**Editor's Note:** NEHA strives to provide up-to-date and relevant information on environmental health and to build partnerships in the profession. In pursuit of these goals, we feature a column from the Environmental Health Services Branch (EHSB) of the Centers for Disease Control and Prevention (CDC) in every issue of the *Journal*.

In this column, EHSB and guest authors from across CDC will highlight a variety of concerns, opportunities, challenges, and successes that we all share in environmental public health. EHSB's objective is to strengthen the role of state, local, tribal, and national environmental health programs and professionals to anticipate, identify, and respond to adverse environmental exposures and the consequences of these exposures for human health.

The conclusions in this article are those of the author(s) and do not necessarily represent the views of CDC.

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Many environmental health (EH) programs already feel short on time, staff, and resources. Are performance improvement efforts worth the effort? Evidence from Florida suggests that they are. This column discusses two case studies in which EH improvement tools were effectively integrated with broader performance improvement initiatives, resulting in a clearer understanding of how EH issues intersect with larger public health (PH) concerns and the importance of EH involvement in addressing them.

A significant performance improvement opportunity is the Public Health Accreditation Board's (PHAB's) voluntary accreditation process. Health departments seeking accreditation must submit a recent community health assessment, community health improvement plan (CHIP), and agency strategic plan before applying (Public Health Accreditation Board [PHAB], 2011a, 2011b). As an integrated Florida Department of Health (FDOH), Florida county health departments are involved in these efforts through EH performance improvement tools:

- **The Environmental Public Health Performance Standards (EnvPHPS) Self-Assessment**  
These standards, developed by the Centers for Disease Control and Prevention (CDC), help organizations assess their capacity to fulfill the essential environmental public health services, mirror the National Public Health Performance Standards, and align with PHAB's domains (CDC, 2010).
- **The Protocol for Assessing Community Excellence in EH (PACE EH)**  
This 13-step methodology, developed by CDC and the National Association of County and City Health Officials (NACCHO), fosters community involvement in EH decision making and contributes to several PHAB standards (NACCHO & CDC, 2000).

### Case Study 1: Walton County, Florida

In 2012, Walton County Health Department's Division of EH (WCHDEH) used the EnvPHPS self-assessment to determine the county's environmental capacity and needs. A stakeholder group, which became known as the EH Council, performed the assessment; members included representatives from police departments, schools, community organizations, and local government. The council found the lowest EnvPHPS scores in the two areas of monitoring and linking people to needed resources. In tandem, the WCHIP (Walton County Health Improvement Plan) used Mobilizing for Action through Planning and Partnerships for its process, while the council used PACE EH to continue assessments.

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Garden in a bucket program created to promote vegetable intake in Walton County.

Early in the CHIP process, WCHDEH realized that EH should be actively involved in WCHDEH's community health improvement planning initiatives. Stakeholders working on the CHIP learned that many root causes for chronic diseases link directly to environmental factors; in response, they composed specific strategies to address both the community's EH concerns and the environmental causes of chronic disease. For example, to increase fruit and vegetable intake, a CHIP objective was formed to create a "garden in a bucket" initiative to encourage families to plant small container vegetable gardens and to prepare and enjoy nutritious meals together (see photo above). Now implemented in all county schools, this program was recently designated a NACCHO promising practice (National Association of County and City Health Officials [NACCHO], 2013).

### Case Study 2: Indian River County, Florida

The Indian River County Health Department's Division of EH (IRCHDEH) staff members used PACE EH to review the EnvPHPS-identified service gaps and to develop and prioritize actions. Because IRCHDEH staff members began integrating the EnvPHPS self-assessment data into the CHIP as the CHIP was being

developed, the CHIP advisory group realized that EH factors influence issues they were already working on such as obesity, limited access to care, and transportation. This synergistic timing resulted in the CHIP advisory group elevating built environment to the third most important issue in their CHIP.

IRCHDEH case results included an increase in health department staff input in the county's planning processes and a focus on nonmandatory EH functions: 1) performing built environment interventions in communities with high chronic disease rates, 2) reversing the decline of the Indian River Lagoon, and 3) reducing rates of hospitalization resulting from dog bites. IRCHDEH combined EH work with local stakeholders' work to create a strong role for EH in accomplishing CHIP priority actions, thus integrating EH into larger health planning and performance improvement activities.

### Shifting the Culture

Utilizing PACE EH methodology to mobilize the community was key to integrating necessary processes, from defining issues to implementing action plans. The EnvPHPS self-assessment revealed service gaps, which the health department utilized to define deficiencies within a community and EH scope.

### Quick Links on Environmental Health and Performance Improvement

- **Environmental Public Health Performance Standards (EnvPHPS)**—assessment tool, articles on environmental health performance improvement, and online toolkit on preparing for and conducting the assessment: [www.cdc.gov/nceh/ehs/EnvPHPS](http://www.cdc.gov/nceh/ehs/EnvPHPS).
- **National Public Health Performance Standards (NPHPS)**—tools and materials for local, state, and governing entity assessments: [www.cdc.gov/nphpsp](http://www.cdc.gov/nphpsp).
- **Protocol for Assessing Community Excellence in Environmental Health (PACE EH)**—online toolkit, PACE EH guidance document in English and Spanish, and other resources (you will be prompted to sign up for a free NACCHO login to download documents): [www.naccho.org/topics/environmental/PACE-EH](http://www.naccho.org/topics/environmental/PACE-EH).
- **Public Health Accreditation Board (PHAB)**—review standards and measures and other resources supporting voluntary public health accreditation: [www.phaboard.org](http://www.phaboard.org).

Data and action plans from these processes were then incorporated into the larger CHIP. Because accreditation requires applicants to have a CHIP, the FDOH felt strongly that EnvPHPS and PACE EH particularly bolstered PHAB Domain 4 ("Engage with the community to identify and address health problems") and should be part of community health improvement planning. See Figure 1 for a more thorough crosswalk of how the EnvPHPS and PACE EH align with PHAB domains.

Florida's experience indicates that high-level leadership support for quality improvement can provide additional impetus for EH involvement. At FDOH, the deputy for Statewide Services emphasizes that "organi-

FIGURE 1

**Aligning Public Health Accreditation Board Domains With EnvPHPS and PACE EH**

Public Health Accreditation (PHAB) Board Domains	EnvPHPS	PACE EH
Domain 1: Conduct and disseminate assessments focused on population health status and public health issues facing the community.	Essential Service 1: Monitor environmental and health status to identify and solve community environmental public health problems.	PHAB cites PACE EH as an example tool for standard 1.1 (Participate in or conduct a collaborative process resulting in a comprehensive community health assessment). Florida has identified additional measures where a PACE EH process may contribute as follows: <ul style="list-style-type: none"> <li>• 1.2.3 A (Collect additional primary and secondary data on population health status),</li> <li>• 1.3.1 A (Analyze and draw conclusions from public health data),</li> <li>• 1.3.2 L (Provide public health data to the community...), and</li> <li>• 1.4.1 A (Use data to recommend and inform public health policy, processes, programs, and/or interventions).</li> </ul>
Domain 2: Investigate health problems and environmental public health hazards to protect the community.	Essential Service 2: Diagnose and investigate environmental public health problems and health hazards in the community.	None noted.
Domain 3: Inform and educate about public health issues and functions.	Essential Service 3: Inform, educate, and empower people about environmental public health.	No specific citation by PHAB; Florida has identified the following measures where a PACE EH process may contribute as follows: <ul style="list-style-type: none"> <li>• 3.1.1 A (Provide information to public on protecting their health), and</li> <li>• 3.1.2 A (Implement health promotion strategies to protect the population from preventable health conditions).</li> </ul>
Domain 4: Engage with the community to identify and address health problems.	Essential Service 4: Mobilize community partnerships and actions to identify and solve environmental public health problems.	No specific citation by PHAB; Florida considers the community-focused assessment component of PACE EH to be supportive of this domain.
Domain 5: Develop public health policies and plans.	Essential Service 5: Develop policies and plans that support individual and community environmental public health efforts.	PHAB cites PACE EH as an example tool for measure 5.2 (Conduct a comprehensive planning process resulting in a tribal/state/community health improvement plan). Florida has identified additional measures where a PACE EH process may contribute as follows: <ul style="list-style-type: none"> <li>• 5.1.2 A (Engage in activities that contribute to the development and/or modification of public health policy), and</li> <li>• 5.2.3 A (Implement elements and strategies of the health improvement plan, in partnership with others).</li> </ul>
Domain 6: Enforce public health laws.	Essential Service 6: Enforce laws and regulations that protect environmental public health and ensure safety.	No specific citation by PHAB, although PACE EH processes may contribute to standard 6.2 (Educate individuals and organizations on the meaning, purpose, and benefit of public health laws and how to comply) by helping raise awareness of environmental health issues and related laws.
Domain 7: Promote strategies to improve access to health care services.	Essential Service 7: Link people to needed environmental public health services and assure the provision of environmental public health services when otherwise unavailable.	No specific citation by PHAB; Florida has identified measures where a PACE EH process may contribute as follows: <ul style="list-style-type: none"> <li>• 7.1.1 A (Convene and/or participate in a collaborative process to assess the availability of health care services), and</li> <li>• 7.1.2 A (Identify populations who experience barriers to health care services).</li> </ul>
Domain 8: Maintain a competent public health workforce.	Essential Service 8: Assure a competent environmental public health workforce.	None noted.
Domain 9: Evaluate and continuously improve health department processes, programs, and interventions.	Essential Service 9: Evaluate effectiveness, accessibility, and quality of personal and population-based environmental public health services.	None noted.
Domain 10: Contribute to and apply the evidence base of public health.	Essential Service 10: Research for new insights and innovative solutions to environmental public health problems.	No specific citation by PHAB; Florida has identified measures where a PACE EH process may contribute as follows: <ul style="list-style-type: none"> <li>• 10.1.1 A (Identify and use applicable evidence-based practices and/or promising practices with implementing new or revised processes, programs, and/or interventions).</li> </ul>
Domain 11: Maintain administrative and management capacity.		None noted.
Domain 12: Maintain capacity to engage the public health governing entity.		None noted.

EnvPHPS = Environmental Public Health Performance Standards; PACE EH = Protocol for Assessing Community Excellence in Environmental Health.

FIGURE 2

**Strengthening Environmental Health (EH) Role in Health Through Performance Improvement**



zational culture trumps strategy every time.” EH issues are often the root of broader public health issues that the health department hopes to address. The evidence from Florida’s experience supports the theory that EH involvement in larger public health quality and community health improvement efforts can help ensure these environmental causes are understood and addressed (Figure 2). 🐼

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