****Report to Accompany Dataset on The Social Dimensions of EPA’s Environmental Cleanup Work: “Community Engagement Survey Dataset”****

**by**

**Brittany Kiessling1**

**Keely Maxwell1**

**Meera Ramakrishnan2**

**Emily Walpole1**

**1Center for Environmental Solutions and Emergency Response**

**Office of Research and Development**

**U.S. Environmental Protection Agency**

**2Student Service Contractor**

**Oak Ridge Associated Universities**

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# Introduction and Research Objectives

The U.S. Environmental Protection Agency (EPA) investigates environmental contamination and conducts environmental cleanup at sites across the country. These sites can be in urban or rural areas, above-ground or below-ground, at an industrial complex, at operational or abandoned sites, or at a federal facility. Environmental pollution can be transported across property boundaries by groundwater, surface water, air dispersion, or illegal dumping. Environmental contamination could also result from an emergency release (e.g., oil spill, train derailment, fire, explosion). The environmental cleanup process can be lengthy and typically involves many entities (e.g., the EPA, state and municipal agencies, responsible parties), over several years to decades depending on the extent and complexity of contamination.

The EPA seeks to advocate and strengthen meaningful community participation during environmental cleanup activities through a variety of mechanisms. Specific community engagement activities can vary by several factors often dictated by a combination of the following: the EPA program designated as the regulatory authority (e.g., Superfund), the cleanup stage, the type of site (e.g., urban, rural, mining, abandoned, industrial), the specific community characteristics, and employee characteristics (e.g., demographics, language(s) spoken, years of experience). Because every community is unique, a one size fits all approach might not work, thus EPA cleanup professionals pull from EPA resources, best practices, and prior personal experience to craft effective and meaningful community engagement strategies. EPA’s Office of Research and Development (ORD) sought to (1) develop an understanding of the social dimensions of environmental cleanups and (2) develop resources to help cleanup practitioners better address these social dimensions in their work (Maxwell and Kiessling 2021; Maxwell and Kiessling 2022). This research is part of a broader applied social science research project initiated by EPA’s Homeland Security Research Program (HSRP). The research project was submitted for institutional ethics review and was determined to be exempt from human subjects’ regulations in March 2020[[1]](#footnote-2) .

To develop a baseline understanding of current engagement practices, the research team surveyed EPA cleanup professionals involved in work at brownfield, Superfund, emergency response, and other sites in 2020 to understand how they engage with communities during environmental cleanups. The survey builds on a literature review and prior findings (Maxwell et al. 2018; Kiessling et al. 2021) that identified the importance of the role of community and stakeholder engagement during environmental cleanup. The survey seeks to enumerate the strategies EPA cleanup personnel use to get to know communities, build trust, and build stakeholder relationships. It also contains questions related to the respondent’s employment status and history with the EPA, their current role in environmental cleanup, and the type of cleanup, cleanup site, and contaminants with which they most commonly work.

This document provides additional information on the collection of this data and associated metadata of the “Community Engagement Survey dataset,” for the use of the American public, while providing no summary or interpretation of the data.

# Sampling and Data Collection Methods

This section summarizes the sampling and data collection methods employed for the Community Engagement Survey of Environmental Professionals.

## Sampling and Survey Development

The target population of this survey were all current EPA employees (circa 2020) possessing work experience in the areas of environmental cleanup as categorized by a set of job positions developed from prior research (Kiessling et al. 2021). Job titles of the target population included brownfield managers, community involvement coordinators, on-scene coordinators, managers, remedial project managers, and site assessors (Table 1). The sampling frame of eligible email addresses was constructed by the EPA social scientist team from several sources including information from the EPA staff directory and Outlook directory, EPA regional intranet sites, and other information available to the EPA team (e.g., discussions with branch managers or program offices). Given the feasibility of administering the survey and the relatively small population count with the position types of interest at the EPA, the team conducted a census and sampled all persons in the target population (N=1,248).

Table 1. Positions and job descriptions of the survey sample (adapted from Kiessling et al., 2021)

| **Position** | **Cleanup Situations** | **Type of Work They Do** |
| --- | --- | --- |
| Brownfield managers | * Brownfields (non-Superfund or federal facility cleanups) | * Site approval * Grants management * Grant writing assistance * Community outreach * Review cleanup reports * Oversee site progress * Coordinate with grantees & contractors |
| Community involvement coordinators (CICs) | * Superfund sites * Emergency response * Inland oil spills | * Home visits with community members * Run public meetings * Create public education & outreach materials * Liaison among on-scene coordinators (OSCs), remedial project managers (RPMs), scientists, public |
| Management\* | * Varies depending on cleanup type | * Staff management * Program and project management * Includes branch managers, office directors, section chiefs, supervisors of other job categories, and other management positions |
| OSCs | * Superfund sites * Emergency response * Inland oil spills * Federal facilities | * Assessment * Monitoring * Securing cleanup funding and resources * Evaluation * Manage contractors * Speak at public meetings |
| RPM | * Superfund sites * Federal facilities | * Project planning * Assure compliance with regulations * Technical oversight and assistance * Review data * Manage contractors * Speak at public meetings |
| Site assessor\* | * Varies depending on cleanup type | * Gathers historical and other readily available information on site conditions and surroundings * Evaluates whether the site poses a potential threat to human health and the environment * Sample collection |

\* These job categories were added to the table from Kiessling et al., 2021.

The survey instrument was developed in collaboration with contractor staff and EPA social scientists and pilot tested for comprehension and quality. The final survey was then programmed into an online platform for distribution.

## Data Collection

Survey recruitment took place over a three-week period between October and November 2020, via repeated contacts to the list of eligible EPA employees (Table 2). This included an initial endorsement letter followed by a survey invitation email and up to four subsequent email reminders to those who had not completed the survey. Prompting calls were also used as a method to improve participation and provided an opportunity to inquire about possible obstacles to participation and answer any questions or concerns.

Table 2. Data collection protocol to maximize response rates

| Survey Protocol Step | Type | Description | Schedule |
| --- | --- | --- | --- |
| Endorsement Letter Email |  | Sent to communicate support and announce the upcoming survey | Day 1 |
| Survey Invitation Email |  | Sent email invitation with customized link to access the survey | Approx. 1 week after endorsement letter email |
| Reminder Email 1 |  | Sent reminder email to non-respondents | 1 week after survey invitation |
| Reminder Email 2 |  | Sent reminder email to non-respondents | 2 weeks after survey invitation |
| Endorsement Letter Reminder Email |  | Sent reminder email to reiterate support for the survey | 2-4 weeks after survey invitation |
| Telephone Prompting Calls & Reminder Email |  | Called non-respondents to prompt participation Reminder emails sent to select individuals not reached by phone | 2-5 weeks after survey invitation |
| Reminder Email 3 |  | Sent reminder email to non-respondents | 3 weeks after survey invitation |
| Final Plea Email |  | Sent reminder email with final appeal to participate | 4 weeks after survey invitation |

Each sample member received a unique survey link which ensured a sample member completed the survey only once. The unique survey link also allowed for tracking sample members to follow-up with those who had not completed the survey.

## Data Cleaning

After data collection was closed, the team followed standard survey data cleaning practices (Field 2024); responses were imported into Excel and checked for quality and consistency. This included the following checks for data verification:

* frequencies of derived variables with their source survey variables;
* verification of totals (i.e., those eligible for an item) for each survey and derived variable;
* identification of any “straight-lining” (i.e., respondents checking the same response every time); and
* removal of incomplete responses and those failing screening questions (Incomplete responses were defined as those where participants did not reach the end of the survey.).

Following these checks, the final dataset contained 377 complete responses. To protect participant confidentiality and privacy, information such as IP address, demographic information, and responses to open-response essay items were removed from the public dataset.

# Data Codebook (Metadata)

Responses in the “Community Engagement Survey dataset” are organized by the random participant ID assigned by Qualtrics (Qualtrics November 2020) (rows, n = 377). A full codebook describing the variables (columns) can be found below, which includes the corresponding variable names, column numbers, question text, and response options with associated quantification (e.g., 1 = yes and 0 = no).

| **Variable Name** | **Column Number** | **Question Text** | **Response options** |
| --- | --- | --- | --- |
| Response ID | A |  |  |
| Consent | B | Clicking “I consent” below will take you to the start of the survey questions. It indicates that you have read and understood this information, and that you agree to answer a series of questions about your experiences in cleanup work. | 1=yes, 0=no, 99=skipped |
| Emp1 | C | Are you a current EPA employee? | 1=yes, 0=no, 99=skipped |
| Emp3 | D | Do you have field experience in environmental cleanups? Cleanups can include, but are not limited to, Superfund, Brownfields, removal or remedial actions, Underground Storage Tanks (USTs), Resource Conservation and Recovery Act (RCRA) corrective action, federal facilities, federally declared disasters, or emergency response. Include experience in any role, for example, community involvement, on-scene coordinator, or remedial project manager. | 1=yes, 0=no, 99=skipped |
| Emp5\_R1 | E | In which Regional Offices have you been employed? Please select all that apply. | Region 1 (1=selected, 0=not selected, 99=skipped) |
| Emp5\_R2 | F | In which Regional Offices have you been employed? Please select all that apply. | Region 2 (1=selected, 0=not selected, 99=skipped) |
| Emp5\_R3 | G | In which Regional Offices have you been employed? Please select all that apply. | Region 3 (1=selected, 0=not selected, 99=skipped) |
| Emp5\_R4 | H | In which Regional Offices have you been employed? Please select all that apply. | Region 4 (1=selected, 0=not selected, 99=skipped) |
| Emp5\_R5 | I | In which Regional Offices have you been employed? Please select all that apply. | Region 5 (1=selected, 0=not selected, 99=skipped) |
| Emp5\_R6 | J | In which Regional Offices have you been employed? Please select all that apply. | Region 6 (1=selected, 0=not selected, 99=skipped) |
| Emp5\_R7 | K | In which Regional Offices have you been employed? Please select all that apply. | Region 7 (1=selected, 0=not selected, 99=skipped) |
| Emp5\_R8 | L | In which Regional Offices have you been employed? Please select all that apply. | Region 8 (1=selected, 0=not selected, 99=skipped) |
| Emp5\_R9 | M | In which Regional Offices have you been employed? Please select all that apply. | Region 9 (1=selected, 0=not selected, 99=skipped) |
| Emp5\_R10 | N | In which Regional Offices have you been employed? Please select all that apply. | Region 10 (1=selected, 0=not selected, 99=skipped) |
| Emp5\_11 | O | In which Regional Offices have you been employed? Please select all that apply. | I have not been employed by an EPA Regional Office (1=selected, 0=not selected, 99=skipped) |
| Office\_OAR | P | In which headquarters (HQ) offices have you been employed? Please select all that apply. If an office had a different name when you worked there, please select the office’s current name. | Office of Air and Radiation (1=selected, 0=not selected, 99=skipped) |
| Office\_OCSPP | Q | In which HQ offices have you been employed? Please select all that apply. If an office had a different name when you worked there, please select the office’s current name. | Office of Chemical Safety and Pollution Prevention (1=selected, 0=not selected, 99=skipped) |
| Office\_OECA | R | In which HQ offices have you been employed? Please select all that apply. If an office had a different name when you worked there, please select the office’s current name. | Office of Enforcement and Compliance Assurance  (1=selected, 0=not selected, 99=skipped) |
| Office\_OLEM | S | In which HQ offices have you been employed? Please select all that apply. If an office had a different name when you worked there, please select the office’s current name. | Office of Land and Emergency Management (1=selected, 0=not selected, 99=skipped) |
| Office\_OW | T | In which HQ offices have you been employed? Please select all that apply. If an office had a different name when you worked there, please select the office’s current name. | Office of Water (1=selected, 0=not selected, 99=skipped) |
| Office\_NotEmployed | U | In which HQ offices have you been employed? Please select all that apply. If an office had a different name when you worked there, please select the office’s current name. | I have not been employed by an HQ office (1=selected, 0=not selected, 99=skipped) |
| Office\_ Other | V | In which HQ offices have you been employed? Please select all that apply. If an office had a different name when you worked there, please select the office’s current name. | Other (Specify: \_\_\_\_\_\_\_\_\_\_) (1=selected, 0=not selected, 99=skipped) |
| Time\_ Employed | W | How many years have you worked as a federal employee at the EPA? If you left the Agency and then returned, select the option that indicates the *total* number of years you have worked at the EPA. | 1=0-5 years, 2=6-10 years, 3=11-15 years, 4=16-20 years, 5=21-25 years, 6=26-30 years, 7=more than 30 years, 99=skipped |
| CU\_Role | X | What is your current role in environmental cleanup work? | 1=On-scene coordinator, 2=Community Involvement Coordinator, 3=Site Assessor, 4=Remedial Project Manager, 5=RCRA Corrective Action Manager, 6=Brownfields Manager, 7=Other (Specify:\_\_\_\_\_\_), 8=Management, 99=skipped |
| CU\_Type\_1 | Y | To what type of cleanup work do you most commonly contribute? | Time-critical removal actions (1=selected, 0=not selected, 99=skipped) |
| CU\_Type\_2 | Z | To what type of cleanup work do you most commonly contribute? | Non-time critical removal actions (1=selected, 0=not selected, 99=skipped) |
| CU\_Type\_3 | AA | To what type of cleanup work do you most commonly contribute? | Emergency response (1=selected, 0=not selected, 99=skipped) |
| CU\_Type\_4 | AB | To what type of cleanup work do you most commonly contribute? | Remediation (1=selected, 0=not selected, 99=skipped) |
| CU\_Type\_5 | AC | To what type of cleanup work do you most commonly contribute? | RCRA corrective actions (1=selected, 0=not selected, 99=skipped) |
| CU\_Type\_6 | AD | To what type of cleanup work do you most commonly contribute? | UST or leaking underground storage tank (LUST) cleanups (1=selected, 0=not selected, 99=skipped) |
| CU\_Type\_7 | AE | To what type of cleanup work do you most commonly contribute? | Brownfield redevelopment (1=selected, 0=not selected, 99=skipped) |
| CU\_Type\_8 | AF | To what type of cleanup work do you most commonly contribute? | Other (1=selected, 0=not selected, 99=skipped) |
| Cont\_1 | AG | Which of the following contaminants do you most commonly encounter in your sites? Please select all that apply. | Heavy metals (e.g., arsenic, chromium, lead, mercury) (1=selected, 0=not selected, 99=skipped) |
| Cont\_2 | AH | Which of the following contaminants do you most commonly encounter in your sites? Please select all that apply. | Polychlorinated biphenyls (PCBs) or dioxins (1=selected, 0=not selected, 99=skipped) |
| Cont\_3 | AI | Which of the following contaminants do you most commonly encounter in your sites? Please select all that apply. | Per- and polyfluoroalkyl substances (e.g., PFAS, PFOA, PFOS, GenX) (1=selected, 0=not selected, 99=skipped) |
| Cont\_4 | AJ | Which of the following contaminants do you most commonly encounter in your sites? Please select all that apply. | Petroleum and/or Polycyclic aromatic hydrocarbons (PAHs) (1=selected, 0=not selected, 99=skipped) |
| Cont\_5 | AK | Which of the following contaminants do you most commonly encounter in your sites? Please select all that apply. | Volatile organic compounds (VOCs) or Semi volatile organic compounds (1=selected, 0=not selected, 99=skipped) |
| Cont\_6 | AL | Which of the following contaminants do you most commonly encounter in your sites? Please select all that apply. | Radioactive materials (1=selected, 0=not selected, 99=skipped) |
| Cont\_7 | AM | Which of the following contaminants do you most commonly encounter in your sites? Please select all that apply. | Biological contaminants (e.g. ricin, anthrax) (1=selected, 0=not selected, 99=skipped) |
| Cont\_8 | AN | Which of the following contaminants do you most commonly encounter in your sites? Please select all that apply. | Asbestos (1=selected, 0=not selected, 99=skipped) |
| Cont\_9 | AO | Which of the following contaminants do you most commonly encounter in your sites? Please select all that apply. | Other (Specify: \_\_\_\_\_\_\_\_\_\_\_\_\_) (1=selected, 0=not selected, 99=skipped) |
| CU\_1 | AP | At what type of site do you most commonly work? (Please select all that apply). | Mining Site (1=selected, 0=not selected, 99=skipped) |
| CU\_2 | AQ | At what type of site do you most commonly work? (Please select all that apply). | Industrial Facility (1=selected, 0=not selected, 99=skipped) |
| CU\_3 | AR | At what type of site do you most commonly work? (Please select all that apply). | Illegal dump site (1=selected, 0=not selected, 99=skipped) |
| CU\_4 | AS | At what type of site do you most commonly work? (Please select all that apply). | Oil spill (1=selected, 0=not selected, 99=skipped) |
| CU\_5 | AT | At what type of site do you most commonly work? (Please select all that apply). | Gas station (1=selected, 0=not selected, 99=skipped) |
| CU\_6 | AU | At what type of site do you most commonly work? (Please select all that apply). | Dry cleaners (1=selected, 0=not selected, 99=skipped) |
| CU\_7 | AV | At what type of site do you most commonly work? (Please select all that apply). | Residential (1=selected, 0=not selected, 99=skipped) |
| CU\_8 | AW | At what type of site do you most commonly work? (Please select all that apply). | Other (Specify: \_\_\_\_\_\_\_\_\_) (1=selected, 0=not selected, 99=skipped) |
| Comm\_ Type | AX | The next set of questions will ask you about the communities affected by contaminated sites. For these questions, think about one site that you recently worked on and the community near it. Which of the following best describes the community type? | 1= urban, 2= suburban, 3= rural, 4= tribal, 99=skipped |
| Lang\_ English | AY | What language(s) are primarily spoken in the community? Please select all that apply. | English (1=selected, 0=not selected, 99=skipped) |
| Lang\_ Spanish | AZ | What language(s) are primarily spoken in the community? Please select all that apply. | Spanish (1=selected, 0=not selected, 99=skipped) |
| Lang\_ Chinese | BA | What language(s) are primarily spoken in the community? Please select all that apply. | Chinese (1=selected, 0=not selected, 99=skipped) |
| Lang\_ Tagalog | BB | What language(s) are primarily spoken in the community? Please select all that apply. | Tagalog (1=selected, 0=not selected, 99=skipped) |
| Lang\_Vietnamese | BC | What language(s) are primarily spoken in the community? Please select all that apply. | Vietnamese (1=selected, 0=not selected, 99=skipped) |
| Lang\_ Other | BD | What language(s) are primarily spoken in the community? Please select all that apply. | Other (Specify: \_\_\_\_\_\_\_\_) (1=selected, 0=not selected, 99=skipped) |
| CSR6\_1 | BE | When you start working in a new community, how often do you use the following resources to help you learn about the location and the people who live there? Local officials (e.g., mayor, fire chief, health agent, public works, tax assessor) | 1=never, 2=rarely, 3=sometimes, 4=often, 5=always, 99=skipped |
| CSR6\_2 | BF | When you start working in a new community, how often do you use the following resources to help you learn about the location and the people who live there? Tribal Leadership (e.g., governmental, non-governmental) | 1=never, 2=rarely, 3=sometimes, 4=often, 5=always, 99=skipped |
| CSR6\_3 | BG | When you start working in a new community, how often do you use the following resources to help you learn about the location and the people who live there? Social media (e.g., Facebook, Twitter) | 1=never, 2=rarely, 3=sometimes, 4=often, 5=always, 99=skipped |
| CSR6\_4 | BH | When you start working in a new community, how often do you use the following resources to help you learn about the location and the people who live there? EPA resources (e.g., EnviroAtlas) | 1=never, 2=rarely, 3=sometimes, 4=often, 5=always, 99=skipped |
| CSR6\_5 | BI | When you start working in a new community, how often do you use the following resources to help you learn about the location and the people who live there? State environmental agencies | 1=never, 2=rarely, 3=sometimes, 4=often, 5=always, 99=skipped |
| CSR6\_6 | BJ | When you start working in a new community, how often do you use the following resources to help you learn about the location and the people who live there? City or county websites | 1=never, 2=rarely, 3=sometimes, 4=often, 5=always, 99=skipped |
| CSR6\_7 | BK | When you start working in a new community, how often do you use the following resources to help you learn about the location and the people who live there? Local library | 1=never, 2=rarely, 3=sometimes, 4=often, 5=always, 99 = skipped |
| CSR6\_8 | BL | When you start working in a new community, how often do you use the following resources to help you learn about the location and the people who live there? Local colleges or universities | 1=never, 2=rarely, 3=sometimes, 4=often, 5=always, 99=skipped |
| CSR6\_9 | BM | When you start working in a new community, how often do you use the following resources to help you learn about the location and the people who live there? Conversations with local residents | 1=never, 2=rarely, 3=sometimes, 4=often, 5=always, 99=skipped |
| CSR6\_10 | BN | When you start working in a new community, how often do you use the following resources to help you learn about the location and the people who live there? Conversations with local community groups (e.g., religious organizations, neighborhood associations, charities, National Association for the Advancement of Colored People (NAACP) chapter) | 1=never, 2=rarely, 3=sometimes, 4=often, 5=always, 99=skipped |
| CSR6\_11 | BO | When you start working in a new community, how often do you use the following resources to help you learn about the location and the people who live there? Other (Specify) | 1=never, 2=rarely, 3=sometimes, 4=often, 5=always, 99=skipped |
| CSR7\_S1\_ST1 | BP | What are the most effective public engagement strategies to use when, 1: Evaluating contamination at the site? (Select the top two most effective) | Door-to-door visits (1=selected, 0=not selected, 99=skipped) |
| CSR7\_S1\_ST2 | BQ | What are the most effective public engagement strategies to use when, 1: Evaluating contamination at the site? (Select the top two most effective) | Social media (e.g., Facebook, Twitter) (1=selected, 0=not selected, 99=skipped) |
| CSR7\_S1\_ST3 | BR | What are the most effective public engagement strategies to use when, 1: Evaluating contamination at the site? (Select the top two most effective) | EPA websites (1=selected, 0=not selected, 99=skipped) |
| CSR7\_S1\_ST4 | BS | What are the most effective public engagement strategies to use when, 1: Evaluating contamination at the site? (Select the top two most effective) | Fact sheets or flyers (1=selected, 0=not selected, 99=skipped) |
| CSR7\_S1\_ST5 | BT | What are the most effective public engagement strategies to use when, 1: Evaluating contamination at the site? (Select the top two most effective) | Phone calls or text messages (1=selected, 0=not selected, 99=skipped) |
| CSR7\_S1\_ST6 | BU | What are the most effective public engagement strategies to use when, 1: Evaluating contamination at the site? (Select the top two most effective) | Community Advisory Groups (1=selected, 0=not selected, 99=skipped) |
| CSR7\_S1\_ST7 | BV | What are the most effective public engagement strategies to use when, 1: Evaluating contamination at the site? (Select the top two most effective) | Public meetings or town hall meetings (1=selected, 0=not selected, 99=skipped) |
| CSR7\_S1\_ST8 | BW | What are the most effective public engagement strategies to use when, 1: Evaluating contamination at the site? (Select the top two most effective) | Other (Specify: \_\_\_\_\_\_\_) (1=selected, 0=not selected, 99=skipped) |
| CSR7\_S1\_ST9 | BX | What are the most effective public engagement strategies to use when, 1: Evaluating contamination at the site? (Select the top two most effective) | N/A – This cleanup stage is not relevant to my work (1=selected, 0=not selected, 99=skipped) |
| CSR7\_S2\_ST1 | BY | What are the most effective public engagement strategies to use, 2: When deciding on cleanup actions? (Select the top two most effective) | Door-to-door visits (1=selected, 0=not selected, 99=skipped) |
| CSR7\_S2\_ST2 | BZ | What are the most effective public engagement strategies to use, 2: When deciding on cleanup actions? (Select the top two most effective) | Social media (e.g., Facebook, Twitter) (1=selected, 0=not selected, 99=skipped) |
| CSR7\_S2\_ST3 | CA | What are the most effective public engagement strategies to use, 2: When deciding on cleanup actions? (Select the top two most effective) | EPA websites (1=selected, 0=not selected, 99=skipped) |
| CSR7\_S2\_ST4 | CB | What are the most effective public engagement strategies to use, 2: When deciding on cleanup actions? (Select the top two most effective) | Fact sheets or flyers (1=selected, 0=not selected, 99=skipped) |
| CSR7\_S2\_ST5 | CC | What are the most effective public engagement strategies to use, 2: When deciding on cleanup actions? (Select the top two most effective) | Phone calls or text messages (1=selected, 0=not selected, 99=skipped) |
| CSR7\_S2\_ST6 | CD | What are the most effective public engagement strategies to use, 2: When deciding on cleanup actions? (Select the top two most effective) | Community Advisory Groups (1=selected, 0=not selected, 99=skipped) |
| CSR7\_S2\_ST7 | CE | What are the most effective public engagement strategies to use, 2: When deciding on cleanup actions? (Select the top two most effective) | Public meetings or town hall meetings (1=selected, 0=not selected, 99=skipped) |
| CSR7\_S2\_ST8 | CF | What are the most effective public engagement strategies to use, 2: When deciding on cleanup actions? (Select the top two most effective) | Other (Specify: \_\_\_\_\_\_\_) (1=selected, 0=not selected, 99=skipped) |
| CSR7\_S2\_ST9 | CG | What are the most effective public engagement strategies to use, 2: When deciding on cleanup actions? (Select the top two most effective) | N/A – This cleanup stage is not relevant to my work (1=selected, 0=not selected, 99=skipped) |
| CSR7\_S3\_ST1 | CH | What are the most effective public engagement strategies to use, 3: When doing the cleanup? (Select the top two most effective) | Door-to-door visits (1=selected, 0=not selected, 99=skipped) |
| CSR7\_S3\_ST2 | CI | What are the most effective public engagement strategies to use, 3: When doing the cleanup? (Select the top two most effective) | Social media (e.g., Facebook, Twitter) (1=selected, 0=not selected, 99=skipped) |
| CSR7\_S3\_ST3 | CJ | What are the most effective public engagement strategies to use, 3: When doing the cleanup? (Select the top two most effective) | EPA websites (1=selected, 0=not selected, 99=skipped) |
| CSR7\_S3\_ST4 | CK | What are the most effective public engagement strategies to use, 3: When doing the cleanup? (Select the top two most effective) | Fact sheets or flyers (1=selected, 0=not selected, 99=skipped) |
| CSR7\_S3\_ST5 | CL | What are the most effective public engagement strategies to use, 3: When doing the cleanup? (Select the top two most effective) | Phone calls or text messages (1=selected, 0=not selected, 99=skipped) |
| CSR7\_S3\_ST6 | CM | What are the most effective public engagement strategies to use, 3: When doing the cleanup? (Select the top two most effective) | Community Advisory Groups (1=selected, 0=not selected, 99=skipped) |
| CSR7\_S3\_ST7 | CN | What are the most effective public engagement strategies to use, 3: When doing the cleanup? (Select the top two most effective) | Public meetings or town hall meetings (1=selected, 0=not selected, 99=skipped) |
| CSR7\_S3\_ST8 | CO | What are the most effective public engagement strategies to use, 3: When doing the cleanup? (Select the top two most effective) | Other (Specify: \_\_\_\_\_\_\_) (1=selected, 0=not selected, 99=skipped) |
| CSR7\_S3\_ST9 | CP | What are the most effective public engagement strategies to use, 3: When doing the cleanup? (Select the top two most effective) | N/A – This cleanup stage is not relevant to my work (1=selected, 0=not selected, 99=skipped) |
| CSR7\_S4\_ST1 | CQ | What are the most effective public engagement strategies to use, 4: When completing the cleanup? (Select the top two most effective) | Door-to-door visits (1=selected, 0=not selected, 99=skipped) |
| CSR7\_S4\_ST2 | CR | What are the most effective public engagement strategies to use, 4: When completing the cleanup? (Select the top two most effective) | Social media (e.g., Facebook, Twitter) (1=selected, 0=not selected, 99=skipped) |
| CSR7\_S4\_ST3 | CS | What are the most effective public engagement strategies to use, 4: When completing the cleanup? (Select the top two most effective) | EPA websites (1=selected, 0=not selected, 99=skipped) |
| CSR7\_S4\_ST4 | CT | What are the most effective public engagement strategies to use, 4: When completing the cleanup? (Select the top two most effective) | Fact sheets or flyers (1=selected, 0=not selected, 99=skipped) |
| CSR7\_S4\_ST5 | CU | What are the most effective public engagement strategies to use, 4: When completing the cleanup? (Select the top two most effective) | Phone calls or text messages (1=selected, 0=not selected, 99=skipped) |
| CSR7\_S4\_ST6 | CV | What are the most effective public engagement strategies to use, 4: When completing the cleanup? (Select the top two most effective) | Community Advisory Groups (1=selected, 0=not selected, 99=skipped) |
| CSR7\_S4\_ST7 | CW | What are the most effective public engagement strategies to use, 4: When completing the cleanup? (Select the top two most effective) | Public meetings or town hall meetings (1=selected, 0=not selected, 99=skipped) |
| CSR7\_S4\_ST8 | CX | What are the most effective public engagement strategies to use, 4: When completing the cleanup? (Select the top two most effective) | Other (Specify: \_\_\_\_\_\_\_) (1=selected, 0=not selected, 99=skipped) |
| CSR7\_S4\_ST9 | CY | What are the most effective public engagement strategies to use, 4: When completing the cleanup? (Select the top two most effective) | N/A – This cleanup stage is not relevant to my work (1=selected, 0=not selected, 99=skipped) |
| CSR7\_S5\_ST1 | CZ | What are the most effective public engagement strategies to use, 5: When redeveloping the site? (Select the top two most effective) | Door-to-door visits (1=selected, 0=not selected, 99=skipped) |
| CSR7\_S5\_ST2 | DA | What are the most effective public engagement strategies to use, 5: When redeveloping the site? (Select the top two most effective) | Social media (e.g., Facebook, Twitter) (1=selected, 0=not selected, 99=skipped) |
| CSR7\_S5\_ST3 | DB | What are the most effective public engagement strategies to use, 5: When redeveloping the site? (Select the top two most effective) | EPA websites (1=selected, 0=not selected, 99=skipped) |
| CSR7\_S5\_ST4 | DC | What are the most effective public engagement strategies to use, 5: When redeveloping the site? (Select the top two most effective) | Fact sheets or flyers (1=selected, 0=not selected, 99=skipped) |
| CSR7\_S5\_ST5 | DD | What are the most effective public engagement strategies to use, 5: When redeveloping the site? (Select the top two most effective) | Phone calls or text messages (1=selected, 0=not selected, 99=skipped) |
| CSR7\_S5\_ST6 | DE | What are the most effective public engagement strategies to use, 5: When redeveloping the site? (Select the top two most effective) | Community Advisory Groups (1=selected, 0=not selected, 99=skipped) |
| CSR7\_S5\_ST7 | DF | What are the most effective public engagement strategies to use, 5: When redeveloping the site? (Select the top two most effective) | Public meetings or town hall meetings (1=selected, 0=not selected, 99=skipped) |
| CSR7\_S5\_ST8 | DG | What are the most effective public engagement strategies to use, 5: When redeveloping the site? (Select the top two most effective) | Other (Specify: \_\_\_\_\_\_\_) (1=selected, 0=not selected, 99=skipped) |
| CSR7\_S5\_ST9 | DH | What are the most effective public engagement strategies to use, 5: When redeveloping the site? (Select the top two most effective) | N/A – This cleanup stage is not relevant to my work (1=selected, 0=not selected, 99=skipped) |
| CSR8\_1 | DI | Which of the following are the most effective strategies for building trust with community members during cleanups? Please select the 3 most effective strategies. | One-on-one or small group meetings with community members (1=selected, 0=not selected, 99=skipped) |
| CSR8\_2 | DJ | Which of the following are the most effective strategies for building trust with community members during cleanups? Please select the 3 most effective strategies. | Following up on and responding to questions from community members (1=selected, 0=not selected, 99=skipped) |
| CSR8\_3 | DK | Which of the following are the most effective strategies for building trust with community members during cleanups? Please select the 3 most effective strategies. | Partnering with trusted local leaders (1=selected, 0=not selected, 99=skipped) |
| CSR8\_4 | DL | Which of the following are the most effective strategies for building trust with community members during cleanups? Please select the 3 most effective strategies. | Public participation in decision-making (1=selected, 0=not selected, 99=skipped) |
| CSR8\_5 | DM | Which of the following are the most effective strategies for building trust with community members during cleanups? Please select the 3 most effective strategies. | Being on-site as much as possible (1=selected, 0=not selected, 99=skipped) |
| CSR8\_6 | DN | Which of the following are the most effective strategies for building trust with community members during cleanups? Please select the 3 most effective strategies. | Participating in community events (1=selected, 0=not selected, 99=skipped) |
| CSR8\_7 | DO | Which of the following are the most effective strategies for building trust with community members during cleanups? Please select the 3 most effective strategies. | Discussing the science behind cleanups with community members (1=selected, 0=not selected, 99=skipped) |
| CSR8\_8 | DP | Which of the following are the most effective strategies for building trust with community members during cleanups? Please select the 3 most effective strategies. | Discussing the role EPA plays in cleanups (1=selected, 0=not selected, 99=skipped) |
| CSR8\_9 | DQ | Which of the following are the most effective strategies for building trust with community members during cleanups? Please select the 3 most effective strategies. | Translating materials into different languages (1=selected, 0=not selected, 99=skipped) |
| CSR8\_10 | DR | Which of the following are the most effective strategies for building trust with community members during cleanups? Please select the 3 most effective strategies. | Other (Specify: \_\_\_\_\_\_\_) (1=selected, 0=not selected, 99=skipped) |
| CSR11\_1 | DS | What is the biggest obstacle you face in building relationships with businesses, agencies, and organizations in your work? | Limited-time availability (1=selected, 0=not selected, 99=skipped) |
| CSR11\_2 | DT | What is the biggest obstacle you face in building relationships with businesses, agencies, and organizations in your work? | Requires a long-term commitment (1=selected, 0=not selected, 99=skipped) |
| CSR11\_3 | DU | What is the biggest obstacle you face in building relationships with businesses, agencies, and organizations in your work? | Resources (1=selected, 0=not selected, 99=skipped) |
| CSR11\_4 | DV | What is the biggest obstacle you face in building relationships with businesses, agencies, and organizations in your work? | Lack of networking opportunities (1=selected, 0=not selected, 99=skipped) |
| CSR11\_5 | DW | What is the biggest obstacle you face in building relationships with businesses, agencies, and organizations in your work? | Preconceived notions (1=selected, 0=not selected, 99=skipped) |
| CSR11\_6 | DX | What is the biggest obstacle you face in building relationships with businesses, agencies, and organizations in your work? | Other (Specify: \_\_\_\_\_\_\_\_\_\_) (1=selected, 0=not selected, 99=skipped) |
| LT1\_1 | DY | During your time at EPA, which of the following resources have been most helpful to you in learning about community outreach and engagement strategies? Please select the 3 most helpful resources. | Community Involvement Coordinators (1=selected, 0=not selected, 99=skipped) |
| LT1\_2 | DZ | During your time at EPA, which of the following resources have been most helpful to you in learning about community outreach and engagement strategies? Please select the 3 most helpful resources. | Online trainings or resources (e.g., Community Involvement (CI) University, OSC Toolbox) (1=selected, 0=not selected, 99=skipped) |
| LT1\_3 | EA | During your time at EPA, which of the following resources have been most helpful to you in learning about community outreach and engagement strategies? Please select the 3 most helpful resources. | In-person trainings (e.g., OSC Academy, Community Involvement Training (CIT)) (1=selected, 0=not selected, 99=skipped) |
| LT1\_4 | EB | During your time at EPA, which of the following resources have been most helpful to you in learning about community outreach and engagement strategies? Please select the 3 most helpful resources. | Mentors or fellow colleagues (1=selected, 0=not selected, 99=skipped) |
| LT1\_5 | EC | During your time at EPA, which of the following resources have been most helpful to you in learning about community outreach and engagement strategies? Please select the 3 most helpful resources. | State counterparts (1=selected, 0=not selected, 99=skipped) |
| LT1\_6 | ED | During your time at EPA, which of the following resources have been most helpful to you in learning about community outreach and engagement strategies? Please select the 3 most helpful resources. | Guidance documents (1=selected, 0=not selected, 99=skipped) |
| LT1\_7 | EE | During your time at EPA, which of the following resources have been most helpful to you in learning about community outreach and engagement strategies? Please select the 3 most helpful resources. | Peer-reviewed literature (1=selected, 0=not selected, 99=skipped) |
| LT1\_8 | EF | During your time at EPA, which of the following resources have been most helpful to you in learning about community outreach and engagement strategies? Please select the 3 most helpful resources. | Trial and error (1=selected, 0=not selected, 99=skipped) |
| LT1\_9 | EG | During your time at EPA, which of the following resources have been most helpful to you in learning about community outreach and engagement strategies? Please select the 3 most helpful resources. | Other (Specify: \_\_\_\_\_\_\_\_) (1=selected, 0=not selected, 99=skipped) |
| LT2\_1 | EH | In which areas would you like more support to help you engage communities and build relationships and trust in cleanup work?Please select all that apply. | Listening to community needs (1=selected, 0=not selected, 99=skipped) |
| LT2\_2 | EI | In which areas would you like more support to help you engage communities and build relationships and trust in cleanup work?Please select all that apply. | Receiving and responding to comments from community members (1=selected, 0=not selected, 99=skipped) |
| LT2\_3 | EJ | In which areas would you like more support to help you engage communities and build relationships and trust in cleanup work?Please select all that apply. | Encouraging participation in decision-making (1=selected, 0=not selected, 99=skipped) |
| LT2\_4 | EK | In which areas would you like more support to help you engage communities and build relationships and trust in cleanup work?Please select all that apply. | Recruiting diverse participation in public meetings (1=selected, 0=not selected, 99=skipped) |
| LT2\_5 | EL | In which areas would you like more support to help you engage communities and build relationships and trust in cleanup work?Please select all that apply. | Building consensus with multiple stakeholders (1=selected, 0=not selected, 99=skipped) |
| LT2\_6 | EM | In which areas would you like more support to help you engage communities and build relationships and trust in cleanup work?Please select all that apply. | Resolving conflicts between stakeholders (1=selected, 0=not selected, 99=skipped) |
| LT2\_7 | EN | In which areas would you like more support to help you engage communities and build relationships and trust in cleanup work?Please select all that apply. | Communicating across cultures (1=selected, 0=not selected, 99=skipped) |
| LT2\_8 | EO | In which areas would you like more support to help you engage communities and build relationships and trust in cleanup work?Please select all that apply. | Communicating science (1=selected, 0=not selected, 99=skipped) |
| LT2\_9 | EP | In which areas would you like more support to help you engage communities and build relationships and trust in cleanup work?Please select all that apply. | Communicating risk (1=selected, 0=not selected, 99=skipped) |
| LT2\_10 | EQ | In which areas would you like more support to help you engage communities and build relationships and trust in cleanup work?Please select all that apply. | None - I am satisfied with the support that I have (1=selected, 0=not selected, 99=skipped) |
| LT2\_Other | ER | In which areas would you like more support to help you engage communities and build relationships and trust in cleanup work?Please select all that apply. | Other (Specify: \_\_\_\_\_\_\_) (1=selected, 0=not selected, 99=skipped) |
| SurveyComplete | ES |  | 1 = yes, 0 = no |

# References

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1. The research project was determined to be exempt from human research. Please refer to Human Subjects Research Review Official (HSRRO) application number HSR-001127 for further information about this IRB application. [↑](#footnote-ref-2)