



ANNUAL OUTREACH EVALUATION REPORT

**Technical Assistance to Brownfields (TAB) Communities
EPA Regions 5, 6, 7, 8, and Nationwide**

October 1, 2022 – September 30, 2023

**Cooperative Agreement TR-84027001, 2021-2026
(Regions 5-8 & National Workshops & E-Tools)**

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NOVEMBER 2023

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Outcomes

Evaluation results indicate that KSU TAB program outputs are supportive of addressing outcomes.

Outcome 1: Increased Recognition, Assessment, Cleanup, and Sustainable Reuse of Brownfields to Reduce Environmental Contamination

With respect to site specific services provided, many acres of brownfield property are being addressed. Most of the sites are related to assessment and/or cleanup activities and most involve at least one element of sustainable reuse. This count does not include the many acres associated with area-wide assessment, coalition assessment, and planning proposal initiatives that TAB assisted communities with this year.

With respect to KSU TAB events, participants indicated their intentions to take action related to assessing and cleaning up property. Many participants reported they were likely to investigate possible redevelopment opportunities for brownfields in their communities and planned to apply for assessment or cleanup grants.

Outcome 2: Better Inform and Equip Communities to Effectively Address and Be Involved in Brownfield Activities

KSU TAB's site-specific services provide opportunities for local and Tribal stakeholders to learn about the brownfield redevelopment process through real world application and involvement in their own projects. During this reporting cycle, 223 communities received technical assistance that helped them develop the capacity to engage in brownfield redevelopment.

Programming events are also pathways of providing education and capacity building to communities involved in brownfield activities. Event participants reported significant changes in their readiness to participate in brownfields redevelopment (+37%) and in their awareness of brownfields resources available to them (+48%) after attending the events.

Outcome 3: Greater Knowledge of Environmental and Human Health Conditions in Micro, Environmental Justice, Tribal, and Newly Created Brownfield Communities

KSU TAB is increasing its focus on underserved communities who generally have greater resource deficiencies. TAB surpassed its goals in serving micro communities (40%) and environmental justice/tribal communities (38%).

Workshops and webinars also provide underserved communities with the opportunity to increase their knowledge. During the project year, 24% of event participants who completed an evaluation were from micro-communities and seven Tribal-specific events were offered. KSU TAB also provides these target communities with access to online resources and training programs.

Outcome 4: Greater Community Involvement, Communication, and Partnerships Among Differing Stakeholders; Leveraging Partnerships for Funding

Site-specific service often provides opportunities for community involvement and relationship building. KSU TAB provided communities support in building a brownfields program 100 times, site reuse planning 80 times, and other assistance 66 times. All of these activities help stakeholders focus their efforts on advancing redevelopment goals.

Programming events provided targeted instruction on how to foster community engagement, effective communication, and partnerships in communities, as well as providing opportunities for stakeholders to network and develop relationships. Representatives from many stakeholder groups attended events. Many participants reported an increased readiness to involve, communicate, and partner with their stakeholders, and intend to share knowledge learned at TAB events with others.

Outcome 5: Enable Communities to Stimulate Economic and Other Beneficial Reuses of Brownfield Sites to Improve Environmental Conditions & Human Health

During the reporting period, KSU TAB provided communities technical environmental support 22 times and economic support 51 times. Events that were offered also increased participants' perception of the resources available to them and their readiness to participate in brownfields redevelopment efforts increased (see outcome 2 above).

Recommendations/Action Steps

TAB made progress on all tasks and achieved or exceeded many of its goals in the reporting period. Specific areas of focus for next year are listed below.

- Continue to offer at least one workshop in every state or at least serves every state in KSU's 21-state regional service area; and increase the number of state-specific webinars/invited presentations if state and local partners are interested.
- Continue to track usage and promote the availability of the Brownfields Inventory Tool (BiT) and the BiT Mobile Smartphone App at conferences and workshops.
- Expand marketing of the Brownfields Community Capacity Assessment regionally and nationally, as well as find ways to increase participation. Consider new methods to make the assessment process easier for stakeholders.

Introduction and Overview

This report highlights a compilation of technical assistance and outreach services provided by the Kansas State University (KSU) Technical Assistance to Brownfields (TAB) program to communities in EPA Regions 5, 6, 7, 8, and National events and e-tools, between October 1, 2022 and September 30, 2023 under Cooperative Agreement (CA) TR-84027001.

This report provides an evaluation of each of the tasks that comprise the TAB Program: capacity building, outreach programming, one-on-one support, and participatory outcomes evaluation. As summarized in this report, KSU TAB's goals were generally met or exceeded. Multiple sources of data were used in evaluating the KSU TAB program. They include service provider documentation, participant evaluations, quarterly reports, community assessments, and website usage reports. Sources of data and analysis techniques are more fully described in the sections below.

Task 1. Building Capacity within Communities and E-Tools Support (Roundtables, E-Tools, and Resources)

Capacity-building activities include Resource Roundtables, Resource Funding Roadmaps, Quality of Life Assessments, Redevelopment Frameworks for Community Resilience, and E-Tools. The following section documents KSU TAB's capacity-building activities during the reporting period.

Resource Roundtables

Resource Roundtables are 1-hour one-on-one sessions between community presenters and expert panelists. During the reporting period, the National TAB Resource Roundtable, known as the "Perfect Pitch", took place at the 2023 Brownfields Conference in Detroit, Michigan. Project pitches were solicited by all TABs to communities in their service areas for presentation at the Brownfields Conference. The three communities selected were:

- Region 1: City of Caribou, Maine – Riverfront Power Plant
- Region 3: City of Smithers, WV – Longacre Bottom
- Region 8: City of Northglenn, CO – Northglenn Recreation Center.

Each Regional TAB provider offered coaching to selected communities to prepare for the event. KSU TAB will make its subject matter expert partners available to the Regional TABs, as needed, to provide follow-up technical assistance to these communities (and possibly other communities who applied) in implementing the expert panelists' advice.

Resource Roadmaps

During the reporting period, KSU TAB performed highest and best use analysis and market studies for over 15 communities. About 20 other communities received assistance with site prioritization, reuse planning, and community engagement to refine redevelopment plans. Those services could lead to Resource (Funding) Roadmap services.

Brownfields Community Capacity Assessments

The Brownfields Community Capacity Assessment is a tool used to measure, track, and evaluate the long-term impact of Site-Specific Technical Assistance. This assessment captures community perspectives on progress at brownfields sites to more accurately measure needs and gains. Respondents are asked to review each item and select which level, from 1 (beginning) to 5 (advanced), best describes their community's current capacity in areas of brownfields leadership, partnerships, and visible redevelopment progress. Assessment data is analyzed by University of Memphis partners and summaries are created and sent to participating communities and their TAB technical assistance providers. See Appendix A for assessment categories.

Online E-Tools and Resources

During the reporting period, there were 41,620 page views of the [KSU TAB web site](#), in 12,924 sessions, by 6,200 new users, and about 300 returning users. Event attendees use the website to register and get information for TAB events. Users also access TABEZ and BiT software, downloadable resources and self-paced learning modules. Online E-Tools and Resources are on the KSU TAB website under 'Online Tools'. There are over 10,000 users with KSU TAB website accounts.

As of September 30, 2023, there were 10,740 active registered users on www.ksutab.org (users who have accounts). About 87% of users provided data on the types of organizations they represent (Table 1 below provides more detail).

Table 1
Percentage of users in target audience groups providing data

User Group	% of Users Providing Data
City Official < 10,000 People	8%
City Official 10,000 - 100,000 People	7%
City Official > 100,000 People	5%
County	6%
Federal	5%
Other Not-For-Profit	15%
Private Citizen	10%
Private Development or Consulting	20%
Regional Planning/Economic Development (Govt.)	10%
State	8%
Tribe	6%
Total	100%

TAB EZ Grant Writing Tool

TAB EZ provides templates and other resources for users to draft Brownfields Assessment and Cleanup grant applications. Based on past data, hundreds of applicants use TAB EZ to write their proposals or view/download useful resources, such as tips and tricks and other data sources needed to complete their applications.

During the FY 2023 Multipurpose, Assessment, RLF, and Cleanup (MARC) application period in Fall 2022, 309 unique visitors logged into TAB EZ (of which 120 were new users). Approximately 122 grant application templates were created and approximately 12 proposals were written in TAB EZ; the other 110 templates were most likely used as a reference while users drafted applications in a separate window (such as MS Word). Over 400 users viewed Helpful Hints nearly 900 times. Some of these users most likely downloaded copies of these documents for reference.

Brownfields Inventory Tool (BiT)

The Brownfields Inventory Tool (BiT) is an online database used by communities and tribes to help inventory, prioritize, and track site progress throughout the brownfields redevelopment process. There are approximately 1,500 separate, password protected, site inventories in BiT that are used for internal management of sites by community brownfields coordinators and tribal response programs. While data in BiT is not publicly available, BiT users can choose to import or export select data of interest to publicly available community web pages or to EPA ACRES (for grant reporting purposes).

BiT software is accessible through the KSU TAB website at www.ksutab.org/tools. During the reporting period, around 624 users logged into BiT at least once. BiT is becoming compatible with changes in the EPA ACRES system; an interface that transfers BiT data to/from ACRES is available for use.

The BiT Mobile App underwent a major update and is available for use on smartphones to collect site data in the field, including photos and GPS coordinates, with or without an internet or cell/data connection. Data on phones sync with a user's data in BiT when internet and data connections are available. To date, over 250 users have downloaded the App.

Task 1 Summation

KSU TAB generally met or exceeded goals for capacity-building and E-Tools Support during the reporting period. There were 11 Resource Roundtables held (10 Regional and 1 National) between selected communities and expert panelists.

A number of upgrades, including a new look and feel for users, are being made to the KSU TAB website. There are over 10,000 users with KSU TAB website accounts and nearly 11,000 active registered users. Over 300 unique visitors logged into TAB EZ and created 120 grant applications, and over 600 users logged into BiT at least once.

Task 2. Regional and National Outreach Programming (virtual and on-site workshops, webinars, on-demand, and invited presentations)

Educational programming provides additional opportunities for TAB to offer communities information and education about the brownfield redevelopment process. This section presents an overview of these activities, as well as evaluation of their effectiveness. Sources of data from this section are quarterly reports produced by TAB program staff and quantitative and qualitative data from evaluations administered at events.

Outreach Programming Events

KSU TAB works with State, Regional, Tribal, and EPA representatives to conduct outreach programming. The goals for programming were to participate in 24 Regional (6 per Region) and 10 National events cooperatively with others. Events cover varying topics such as brownfields basics (site identification and prioritization, assessment, cleanup) and the redevelopment process, grant writing, community engagement, resiliency, finding demographics, identifying financial incentives and mechanisms, etc.

"I am looking to begin work in the brownfields world so this session provided valuable background knowledge on how to approach a project like this and provided a fun exercise to creatively approach sites."

KSU TAB 2022-2023 Natl. Event Participant

During the reporting cycle, TAB provided a total of 67 programming events: 23 workshops (18 in-person, 4 virtual and 1 mobile), 6 webinars, and 38 invited presentations/exhibiting booths. There were 9 events in Region 5; 10 events in Region 6; 11 events in Region 7; 12 events in Region 8; 25 National brownfields events; and 1 event in a non-applicable region. Over 4,900 participants attended these events. Table 2 below provides a detailed overview.

*Table 2
Overview of events and participants*

Event Topic	Number of Events						Number of Participants					
	R5	R6	R7	R8	Natl./ Undef	Tot	R5	R6	R7	R8	Nat	Tot
Workshops (in-person and virtual)	1	2	8	6	6	23	32	101	375	131	878	1517
Webinars	2	0	1	0	3	6	50	0	89	0	223	362
Invited Presentations/Exhibiting	6	8	2	6	16	38	540	297	15	447	1727	3026
Totals	9	10	11	12	25	67	622	398	479	578	2828	4905

Note: Reported numbers of webinar attendees count only actual connections, yet more than one attendee may participate from the same connection.

The data below discusses the evaluation results from the 24 events where evaluations were conducted during the reporting period and represents feedback received from 473 participants. Data was collected using a retrospective pre-post survey instrument. This type of instrument is administered at the end of an event yet also asks questions about knowledge or perception prior to the event to produce a more accurate reporting of participants’ perceived changes than the traditional pre/post survey, as well as provides paired samples for more robust statistical analysis.

Population served

People from a wide variety of communities participate in TAB events. Evaluation respondents were asked to indicate the size of the communities they represented, and the majority (76%) indicated they were from communities with populations greater than 10,000 (see Figure 1 for more detail).

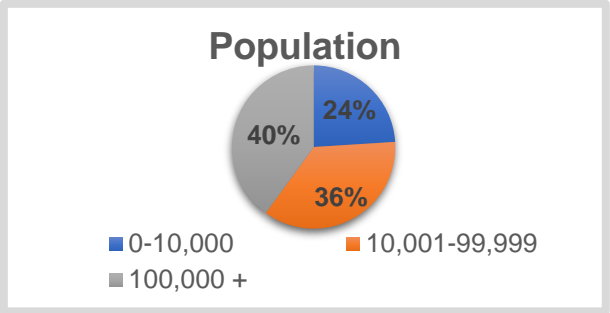


Figure 2. Population of Evaluation Respondents

Event outcomes

Event participants were asked to complete retrospective pre-post evaluation forms at the completion of events. The evaluations asked questions that measured changes in respondents’ knowledge about brownfields, their readiness to participate in brownfield redevelopment and/or grant writing, and perceptions of available resources before and after the workshop.

Useful experience.

Participants were asked how useful the information learned during events would be in their work or community. Nearly all respondents (96%) indicated what they learned during the events was useful or very useful (see Figure 3).

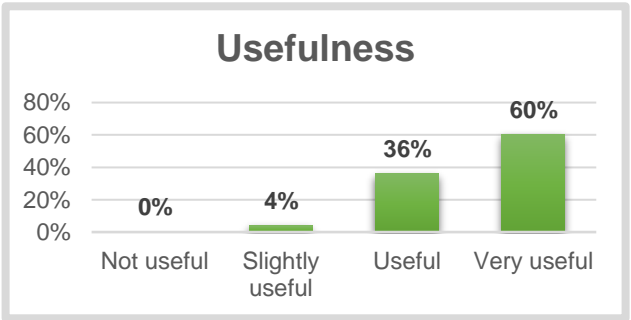


Figure 3. Usefulness of information learned

“Really appreciate the effort and topics covered. So many useful things learned and connections made.”

KSU TAB 2022-2023 R8 Event Participant

Readiness

Participants were asked how ready they were to proceed with brownfields redevelopment. Before the events, 49% of respondents reported feeling somewhat or very ready. After the events, 86% of respondents reported feeling somewhat or very ready. Analysis indicates respondents' level of readiness increased as a result of attending the events and the change was not due to chance (see figure 4).

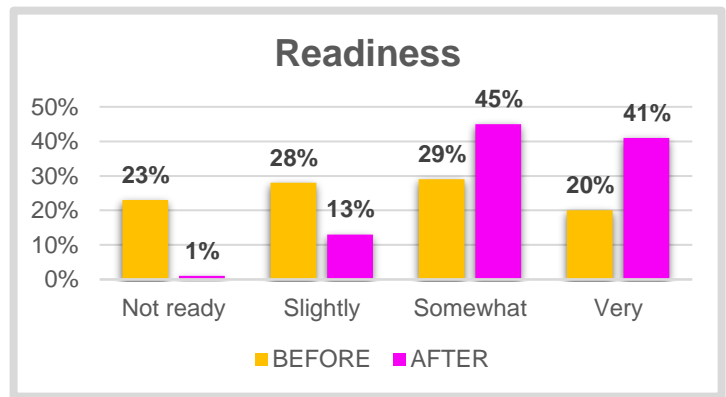


Figure 4. Changes in respondents' readiness to proceed with varying brownfields work. Pre-workshop mean: 2.46, post-workshop mean: 3.25; $p < .001$.

Available resources

Participants were asked to describe the amount of resources available to support participation in brownfields redevelopment. Before the events, 47% of respondents reported they had some or many resources. After the events, 95% of respondents reported having some or many resources. Analysis indicates respondents felt available resources to support participation in brownfields development increased as a result of attending the events and the change was not due to chance (see Figure 5).

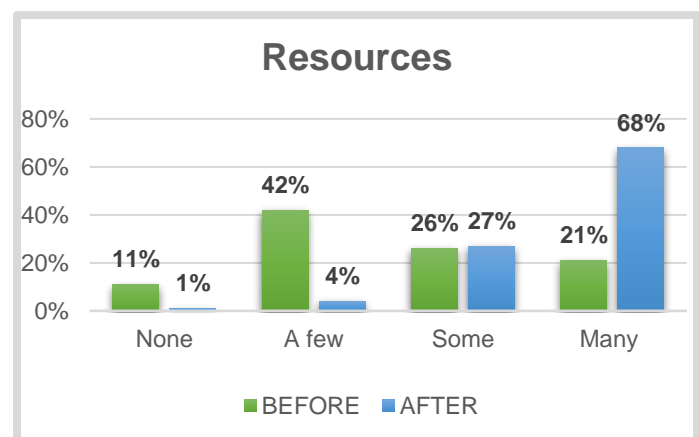


Figure 5. Changes in respondents' amount of resources to support brownfields redevelopment. Pre-workshop mean: 2.57, post-workshop mean: 3.63; $p < .001$.

"We benefitted from the different perspectives and levels of experience brought to the table and thinking through the real world strategy and opportunities for each site."

KSU TAB 2022-2023 Natl. Event Participant

Knowledge change.

Participants were asked questions to rate their understanding of brownfields topics covered. Before events, 59% of respondents indicated having moderate or high levels of understanding. After events, 99% of respondents indicated having moderate or high level of understanding. Analysis indicates that respondents felt their level of understanding increased as a result of attending the events and the change was not due to chance (see figure 6).

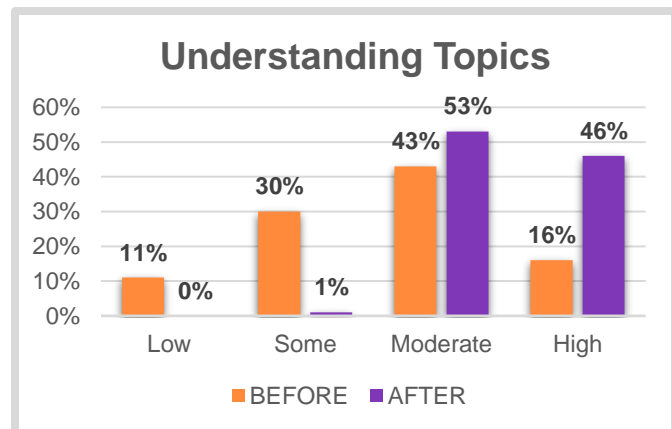


Figure 6. Changes in respondents' level of understanding about brownfields topics. Pre-workshop mean: 2.65, post-workshop mean: 3.45; $p < .001$.

Grant Writing Preparedness

Participants were asked how prepared they feel as an individual to write an EPA Brownfields Grant application. Before events, only 31% of respondents reported feeling somewhat or very prepared to write a grant application. After events, 78% felt somewhat or very prepared. Analysis indicates that most respondents felt more prepared to write a grant application as a result of attending the events and the change was not due to chance (see figure 7).

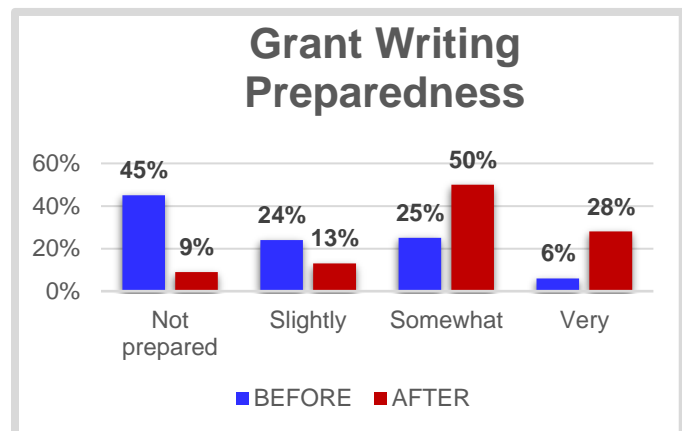


Figure 7. Changes in how prepared respondents felt to write an EPA Brownfields Grant application. Pre-workshop mean: 1.92, post-workshop mean: 3.15; $p < .001$.

"This information will help provide direction on completing the grant properly and also in making strong connections with partners and supportive services."

KSU TAB 2022-2023 Natl. Event Participant

Grant Writing Understanding

For some grant writing events, participants were asked about their understanding of specific grant application opportunities and how to prepare to apply for an EPA Brownfields grant. Before the events, only 51% reported having moderate to high level understanding of brownfields grant opportunities and how to apply. After the events, 98% reported having moderate to high level understanding. Analysis indicates that most respondents felt they had a greater understanding as a result of attending the events and the change was not due to chance (see figure 8).

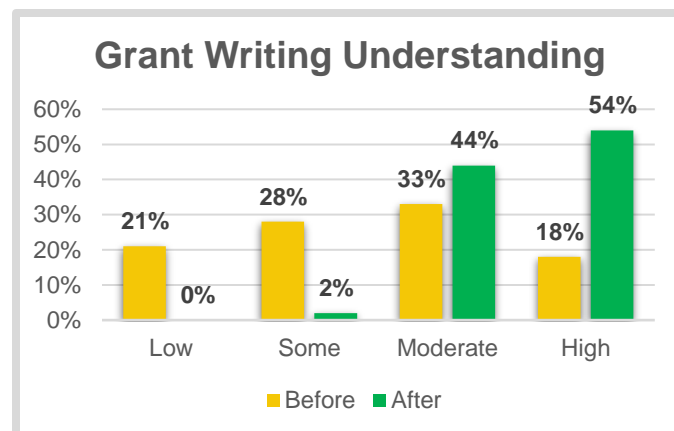


Figure 8. Changes in how prepared respondents felt to write an EPA Brownfields Grant application. Pre-workshop mean: 2.55, post-workshop mean: 3.51; $p < .001$.

Grant Writing Resources

Participants were asked how they would describe the amount of brownfield grant writing resources they have to aid them in writing an EPA Brownfields Grant application. Before the events, 52% of respondents indicated having some or many grant writing resources. After the events, the majority of respondents (89%) indicated having some or many grant resources. Analysis indicates that respondents felt they had more resources available to support writing an EPA Brownfields grant application as a result of attending the events and the change was not due to chance (see figure 9).

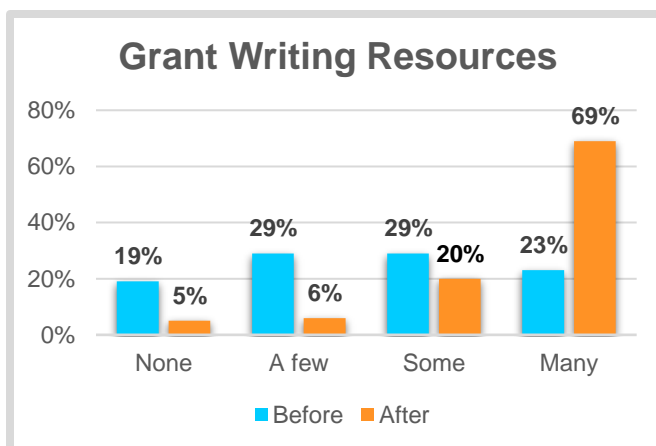


Figure 9. Changes in how prepared respondents felt to write an EPA Brownfields Grant application. Pre-workshop mean: 2.55, post-workshop mean: 3.52; $p < .001$.

Event evaluation respondents were also asked open-ended questions on evaluation forms to encourage them to provide additional helpful feedback. Overall, most responses were positive in nature and respondents appreciated the opportunity to attend events that provide access to knowledgeable presenters and useful resources. A brief summary of responses to these questions can be found in Appendix B.

Invited Presentations/Exhibiting

Due to continued demand for invited regional presentations, we are including and counting invited presentations/exhibits towards work plan goals for events as they are similar in effort and cost and meet regional needs. There were 38 invited presentations/conference exhibit booths (29 invited presentations and 9 exhibits) provided during the project period, reaching over 3,000 participants. Table 3 below provides more detail.

Table 3
Overview of invited presentations and conference exhibiting

Date	Reg	Title	Participated
10/13/2022	6	National Environmental Tar Creek Conference	N/A
10/15/2023-10/18/2023	Natl.	NADO Conference exhibit booth	50
10/17-19/2022	Natl.	Growing Sustainable Communities Conference (<i>invited presentation and exhibit</i>)	25
10/18-19/2022	5	Minnesota Brownfields Members Only Event	19
10/20/2022	6	EPA R6 FY23 MARC Grant Application	32
10/25/2022	5	Huntington-HK Porter Cleanup	17
10/25/2022	6	EPA R6 New Grantee Orientation	56
11/30/2022	7	KSU TAB Community Assistance, Tools & Resources	15
2/21/2023	8	Redevelopment Funding Workshop	20
3/3/2023	5	Brownfields Leadership Training: TAB and MPCA	7
3/4/2023	6	2023 Soil Kitchen (<i>Invited Presentation and Exhibit</i>)	112
3/13-15/2023	Natl.	Solar Farm Summit	410
3/16-18/2023	Natl.	Annual Council of Educators in Landscape	10
3/27-29/2023	Natl.	Main Street Now Conference	100
4/10-12/2023	8	EDA Denver Conference invited presentation	35
4/11-12/2023	8	DCI In the Game Conference	12
4/24/2023	5	ECI EJ Board Community Involvement Planning	12
5/4/2023	6	Louisiana Brownfields Program and Partners	21
5/9/2023	5	Ohio Brownfields Conference	240
6/12/2023	8	Jumpstarting Your Brownfields Project Through Technical Assistance (<i>invited presentation and exhibiting</i>)	150
6/21/2023	5	Division of Environmental Financial Assistance	205
6/28/2023	6	Introduction to Brownfields	14
7/22/2023	7	Dialogue on Sustainability	22
8/7/2023	Natl.	Brownfields EJ Caucus at National Conference	150
8/8-10/2023	Natl.	2023 National Brownfields Conference Exhibit Booth	500
8/8/2023	Natl.	Understanding our PLACES at NBC	50

Date	Reg	Title	Participated
8/10/2023	Natl.	How Community Solar on Brownfields is a Win-Win-Win	80
8/14-17/2023	Natl.	2023 Tribal Lands and Environmental Forum Exhibit	250
8/14/2023	Natl.	BiT – Your One Stop Shop for Site Inventory and Program Management (TLEF)	40
8/17/2023	Natl.	How Brightfields Can Reuse Brownfields and Reenergize Your Community	50
8/17/2023	Natl.	Resilience and Restoration: Alaka Tribal Brownfields on Screen and Golovin, Alaska	40
8/24/2023	5	Young Professionals Event	40
8/31/2023	6	EPA R6 Grant Writing Resources	27
9/13/2023	6	EPA R6 BF Grant Writing Resources	35
9/20-22/2023	8	North Dakota League of Cities Conference	230

Online Training Program Series

The KSU TAB Online Training Program Series consists of pre-recorded webinar modules, supplemental materials and review questions. A certificate is issued upon successful completion of each program and contact hours credit is available. There are ten online training programs available on the KSU TAB website. During the reporting year, 26 completion certificates were issued.

Task 2 Summation

KSU TAB surpassed all educational programming goals during the reporting period. A total of 67 events were conducted: 23 workshops, 6 webinars, and 38 invited presentations/exhibits. Of those, 42 were Regional events (with 9-12 events per Region) and 25 were National events. The yearly goal is to participate in 24 Regional (6 per Region) and 10 National events.

In terms of workshops KSU TAB delivered, evaluation data suggests they were successful on many levels. First is in terms of the population goals TAB has for its site service. The population of workshop attendees completing evaluations met TAB's site service population goals (see Table 4 below). The second indicator of success is the types of participants attending workshops. Participants in the workshop are also representative of the range of stakeholders that need to be involved in successful brownfield redevelopment (See Appendix C).

Table 4
Population levels of workshop evaluation respondents

Target goals	Outcomes	Target met
50% with population of less than 100K	60%	Yes
25% with population of less than 10K	24%	No
Six events per Region	9-22 per Region	Yes

The third indicator of success is related to the evaluation results. There were high levels of agreement among participants (96%) that the knowledge gained by attending the workshops was useful or very useful. Measures of retrospective pre-post responses to questions related to perceptions were rather dramatic (as seen in Table 5). Each measure was also shown to be statistically significant (not due to chance).

Table 5

Changes in retrospective pre-post measures related to understanding (moderate and high level), readiness (somewhat and very ready), and resources available (some and many)

Item	Retrospective	Post	Change	Statistical Significance
Understanding	59%	99%	+40%	$p < .001$
Readiness	49%	86%	+37%	$p < .001$
Resources	47%	95%	+48%	$P < .001$

Task 3. One-On-One Community Assistance and Special Projects

Community Assistance

In EPA Regions 5-8, KSU TAB provides a variety of one-on-one site specific technical assistance to guide local brownfield leaders, their communities, and other stakeholders through the brownfield redevelopment process. Sources of data for documenting services provided are quarterly reports produced by TAB program staff, based on reports from service providers. Quantitative goals for site service are listed in the table below along as well as actual levels of service achieved.

Table 6

Target goals and outcomes for site-specific service in 2022-2023

Goals for Site-Specific Services	Outcomes Achieved
Assist 100-180 Communities	223 communities
One site/state/year	Yes
50% with population less than 100k	81%
25% with population less than 10k	38%
25% tribal or environmental justice	43%

Overall, TAB exceeded its goal of communities served with a total of 223 communities receiving technical assistance. The number of tribal/environmental justice communities provided site services in the reporting period was 43% of total communities served. For a regional view of target goals and outcomes for site-specific services, as well as communities served, see Appendix D.

TAB provides a range of services to communities in its 21-state service area and nationally. Table 7 provides an overview of the types of services provided to communities during the reporting period, based on information available about support provided. For an overview of services provided in each region, please see Appendix D.

Table 7

Typical site-specific services provided to communities in 2022-2023

Type of service provided	# Times Provided
Grant Review and Support	118
Building a Brownfields Program	100
Site Reuse Planning	80
Technical Environmental Support	22
Economic Support	51
Other Assistance	66
Total	437

Other TAB Activities

TAB was involved in additional activities to support communities and stakeholders. This includes:

- KSU TAB was on the Local Planning Committee for the 2023 National Brownfields Conference held in Detroit, MI in August, as well as presenting and sponsoring a number of events, including Brownfields 101 and 201 Brownfields University workshops, 'Meet the TABs!', and 'Perfect Pitch' sessions. KSU TAB presenters also gave five platform and poster presentations in the educational track.
- KSU launched its Brightfields Accelerator effort with two virtual workshops, exhibiting at the Solar Farm Summit in Chicago. This program includes technical assistance, tools, and other resources to help communities make smart and sustainable choices about the reuse and revitalization of brownfields sites and prepare for funding, financing, and procurement for clean energy.
- KSU TAB is developing several approaches to partner with colleges and universities in underserved communities. In April 2023, planning began for a field exercise and multicultural faculty/student exchange event between KSU and Donnelly College (a minority-serving institution in Kansas City, KS). In July 2023, Dr. Joel Multhauf, an Assistant Professor at Donnelly College, involved his 12 students and additional faculty to work with Cynthia Annette, Associate Professor, KSU TAB, Ganga Hettiarachchi, Professor, Agronomy Department, and LaVerne Bitsie-Baldwin, KSU Engineering Multicultural Program, to complete a brownfields community gardening evaluation of a site across the street from the College. KSU Agronomy faculty and students also completed research on this topic. The exercise included touring KSU Agronomy lab, where samples collected were analyzed. The students viewed other STEM career path points of interest on campus.

Task 3 Summation

TAB exceeded all goals for site services in the project period: total number of communities served (223), one site/state/year, communities with populations of less than 100,000 (81%), communities with populations of less than 10,000 (38%), and Tribal/environmental justice communities (43%).

A range of sites are being served including assessment, cleanup, area-wide planning, RLF, 128(a) and 104(k) grants. Services to about 51% of communities served will continue into the next reporting period. The types of services being provided most frequently (grant review and support, other assistance, and building a brownfields program) indicate that a number of sites are in early stages of the brownfield redevelopment process, where TAB support is useful in helping communities develop the capacity for engaging in redevelopment projects.

Conclusions

The overall anticipated KSU TAB Program outcomes and outputs are shown in Table 8 below. As the above review of program activities revealed, significant progress was made in achieving or exceeding program outputs on items listed in the table below.

The KSU TAB website was visited by 6,200 new users and had 41,620 sessions; there were 309 unique visitors logged into TAB EZ (120 of those were new); approximately 624 users logged into BiT at least once and the BiT mobile app underwent a major update; The National TAB Resource Roundtable was held at the 2023 Brownfields Conference where three communities participated. Regional and National outreach programming goals were exceeded, with KSU TAB providing a total of 67 programming events (42 Regional and 25 National) with nearly 5,000 participants. KSU TAB exceeded goals of total communities assisted (223), particularly micro (38%) and EJ/Tribal communities (43%).

Table 8
Overall program outcomes and outputs

Outcomes	Outputs
<ul style="list-style-type: none">• Increased recognition, inventory, assessment, cleanup, and sustainable reuse of brownfields to reduce environmental contamination• Better inform and equip communities to effectively address and be involved in brownfields activities• Greater knowledge of environmental and human health conditions in micro, environmental justice, and newly created brownfields communities• Greater community involvement, communication, and partnerships among differing stakeholders; leveraging partnerships for funding• Enable communities to stimulate economic and other beneficial reuses of brownfields sites to improve environmental conditions and human health	<ul style="list-style-type: none">• 1 Regional Resources Roundtable capacity-building event/yr for 4-6 communities/yr and 1 National Resources Roundtable capacity-building event/yr• One-on-one technical assistance provided to 100-180 communities (at 25-45 per Region/yr)• 24 Regional events/yr (6 per Region/yr); 10 National outreach events/yr• Update and maintain online e-tools and resources (BiT, TAB EZ, Site Prioritization Tool, additional resources)• Increase awareness of availability of TAB program• Implement participatory evaluation strategies in every EPA Region• Annual and quarterly reports to EPA headquarters and Regional offices

Appendix A: Brownfields Community Capacity Assessment Items

Program Management/Coordination: Someone is in charge of leading brownfields efforts for the community, which may include working with others to set objectives and goals; securing resources; managing brownfields services provided to community stakeholders (such as facilitating control of properties, getting environmental work done and liability protection in place, to convey property for private or City development); using specialized staff, contractors, partners, agreements; and working with regulatory agencies.

Elected Officials/Upper Management: Establishing support or buy-in from elected officials/upper management important to the success of redevelopment programs (i.e., attending webinars or workshops related to brownfields, ongoing exchange of experience and knowledge for project implementation, mentoring and serving as a resource to others).

Internal Funding/Resources: Internal funding and resources are available to the community, such as the investment of time by management and staff, local government funding, or local incentives for development (e.g., codes/ordinances, TIFs, etc.).

Community at Large: Engaging groups of citizens, organizations, businesses, and other stakeholder groups in your community that are directly (adjacent to sites) or indirectly impacted by and/or interested in brownfields and redevelopment efforts.

Individual Property Owners/Buyers/Developers/Strategic Investors/Regulatory Agencies: Building a wide network of contacts and connections with strategic partners, mostly at the local level, who are key in moving revitalization projects forward.

External Funding and Regulatory Organizations: Establishing contacts and connections for leveraging public, nonprofit, and private resources by collaborating with organizations mainly outside the local area, including EPA programs, federal partners, state agencies, and others (including state and federal lawmakers) to identify and make resources available that facilitate brownfield activities.

Identify and Prioritize Sites and Plan Re-Use with Partners: May include creating an inventory of brownfields; selecting sites that could meet economic, environmental, and community revitalization goals; taking public input on re-use; and finding individuals and other partners interested in playing a role in redeveloping properties.

Environmental Assessments and Cleanups: Phase I and II environmental assessments are happening, prior to transfer of properties, to discover information about property's environmental conditions and cleanup is happening as needed.

Implement Re-use Plan: Working with individuals, other partners, and funding sources to return properties to productive re-use that address identified economic, environmental, and community goals.

Appendix B: Open-Ended Evaluation Responses

Event participants were asked open-ended questions on evaluation instruments to encourage them to provide additional helpful feedback. Overall, most responses were positive and respondents appreciated the event opportunities and knowledgeable presenters. A brief summary of evaluation responses to the questions follows.

When asked “How will you use the information you learned today,” there were a wide assortment of responses. Common themes in responses included applying for grants and finetuning applications; enhancing methods on current and future projects – moving forward with redevelopment; sharing information learned with others and providing better support to communities and clients; better understanding and expanding of knowledge; utilizing available resources and technical assistance; enhancing community engagement and outreach techniques; networking/forming new and beneficial partnerships; and pursuing assessment and cleanup opportunities.

When asked “Which specific topics or activities covered today will be most useful in helping you reach your goals,” responses varied but respondents often indicated all of it was useful. Many responses were related to grants and the grant writing process (storytelling, budgeting, scoring); available funding opportunities; case studies and group activities; engaging with communities; identifying partners, TAB and other available resources (TAB EZ, BiT, EJSCREEN, etc.); finding and understanding useful data; brownfield program basics; and the process/phasing of development projects.

When asked “What other topics or activities would you like to see covered in future TAB workshops,” there were many different responses. Respondents’ suggestions included: anything related to the grant application process (creative grant writing strategies, successful applications, formatting, aligning objectives with application, key words); more funding mechanisms, particularly other than EPA or State; step-by-step process from start to finish and timelines; real-world examples, especially funded projects and smaller/rural/EJ projects; creative and successful community engagement techniques; climate change planning; basics; infrastructure and clean energy opportunities.

When asked “Is there anything else you would like to tell us,” respondents overwhelmingly communicated appreciation for such informative events and knowledgeable presenters. Other comments included adding more hands-on activities and organizing the event structure to allow for more time/not move too quickly.

Appendix C: Representation at Programming Events

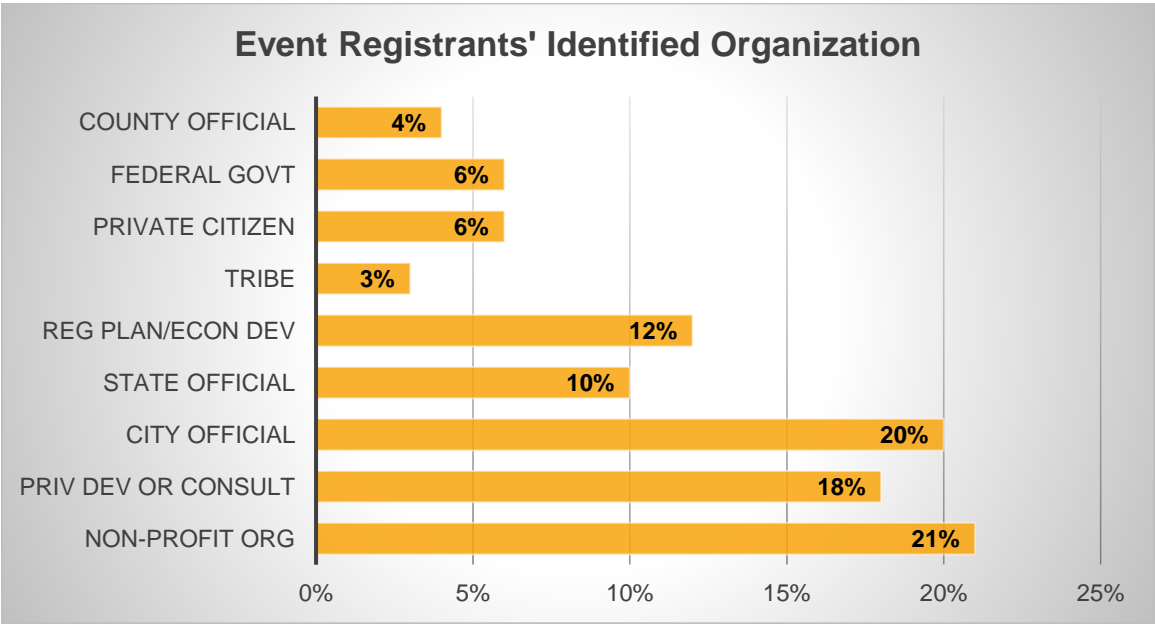


Figure 1. Stakeholder category identified during event registration process.

Appendix D: Site-Specific Technical Assistance to Communities

Table 1

Target goals and outcomes for site-specific service: Regional perspectives

Region 5

Target goals	Outcomes	Target met
25-45 communities/year	66	Yes
50% with population of less than 100k	87%	Yes
25% with population of less than 10k	16%	No
25% EJ/Tribal communities	39%	Yes
One site/state/year	9-20 per state	Yes

Region 6

Target goals	Outcomes	Target met
25-45 communities/year	50	Yes
50% with population of less than 100k	70%	Yes
25% with population of less than 10k	40%	Yes
25% EJ/Tribal communities	76%	Yes
One site/state/year	3-17 per state	Yes

Region 7

Target goals	Outcomes	Target met
25-45 communities/year	51	Yes
50% with population of less than 100k	94%	Yes
25% with population of less than 10k	53%	Yes
25% EJ/Tribal communities	30%	Yes
One site/state/year	10-14 per state	Yes

Region 8

Target goals	Outcomes	Target met
25-45 communities/year	53	Yes
50% with population of less than 100k	87%	Yes
25% with population of less than 10k	52%	Yes
25% EJ/Tribal communities	29%	Yes
One site/state/year	0*-20 per state	No

*No technical assistance provided in Utah during reporting period

Table 2
Overview of information provided for communities served: All regions

Community Assisted	State	Region	Project Phase	Status
City of Amsterdam	NY	2	assessment	ongoing
City of Pittsfield	MA	3		
Catawba Nation	SC	4		
Barberton	OH	5	assessment	completed
Bay Mills Indian Community	MI	5	128(a); Cleanup	ongoing
Beverly	OH	5	planning	completed
Calumet County	WI	5	assessment	ongoing
Carbondale	IL	5	inventory	ongoing
CDFI Friendly Bloomington	IN	5	assessment	completed
Cincinnati Port Authority	OH	5	assessment/cleanup	completed
City of Benton Harbor	MI	5	Inventory/planning/visioning/development constraints/due diligence questions	ongoing
City of Cincinnati	OH	5	assessment	ongoing
City of Cleveland	OH	5	assessment/cleanup	ongoing
City of Danville	IL	5	assessment	completed
City of Detroit	MI	5	assessment/cleanup	ongoing
City of Dixon	IL	5	cleanup	completed
Decatur (Community Dev Director)	IL	5	planning	ongoing
Dallas City	IL	5	planning, inventory/resources	ongoing
East Lansing	MI	5	inventory	ongoing
Eau Claire	WI	5	assessment	completed
ECI Regional Planning District	IN	5	inventory	ongoing
Elkhart	IN	5	inventory	ongoing
Farmington	IL	5	planning/inventory/resource roundtable	ongoing
Fort Wayne	IN	5	cleanup	completed

Community Assisted	State	Region	Project Phase	Status
Freeport	IL	5	cleanup	completed
Galesburg	IL	5	assessment/inventory	ongoing
Green Bay	WI	5	assessment/cleanup	completed
Green Door Initiative, Detroit	MI	5	assessment	ongoing
Hamilton (Ohio Butler County Land Bank)	OH	5	planning	ongoing
Hennepin County	MN	5	assessment	completed
Huntington	IN	5	cleanup	ongoing
Indianapolis	IN	5	redevelopment	ongoing
Jacksonville	IL	5	assessment	completed
Jefferson Co Port Authority	OH	5	assessment	completed
Keweenaw Bay Indian Community (not in ss log but in Q4)	MI	5		
LaCrosse	WI	5	planning/assessment	ongoing
Lawrence	IN	5	assessment	completed
Leech Lake Bank of Ojibwe	MN	5	assessment; cleanup	ongoing
LifeLab Kids Pontiac	MI	5	planning	ongoing
Lima	OH	5	outreach/assessment/cleanup	ongoing
MacCanon Brown Homeless Sanctuary	WI	5	planning/inventory/prioritize	ongoing
Manitowoc	WI	5	cleanup	completed
Marinette	WI	5	assessment	completed
Marion	IL	5	inventory	ongoing
Marion	IN	5	development	
Maywood Village	IL	5	inventory	ongoing
Milwaukee	WI	5	assessment	completed
Minneapolis Green Zones	MN	5	both	ongoing
Murphysboro	IL	5	cleanup	ongoing
North Central Indiana Regional Planning Commission	IN	5	assessment/Cleanup	ongoing

Community Assisted	State	Region	Project Phase	Status
Oak Park	IL	5	development	completed
Ogema (White Earth Nation)	MN	5	assessment/cleanup	completed
Oshkosh	WI	5	assessment	completed
Perry County	OH	5	assessment	completed
Plainview	MN	5	Planning	ongoing
Prairie Hills Regional Planning District	IL	5	assessment	
Prairie River Network	IL	5	planning	completed
R5 Development Commission	MN	5	inventory/acquisition of brownfields properties in region	ongoing
Racine Community Dev Auth	WI	5	assessment	ongoing
Region 1 Planning Council	IL	5	assessment	ongoing
Region 3A Development & Regional Planning Commission	IN	5	acquisition of contaminated property	completed
Rice & Larpenteur Alliance	MN	5	inventory/planning/development constraints/due diligence questions	ongoing
Richton Park	IL	5	assessment	completed
Sartell	MN	5	assessment	completed
Sheboygan County	WI	5	assessment	completed
Southern Illinois University of Carbondale	IL	5	assessment	ongoing
Springfield	IL	5	cleanup	completed
Sterling	IL	5	cleanup	completed
Terre Haute (Thrive West Central)	IN	5	outreach inventory	ongoing
Wayne County, Detroit	MI	5	assessment/cleanup	ongoing
Austin, TX	TX	6		ongoing
Bernalillo County, Albuquerque, NM	NM	6		
BRF EDO	LA	6		ongoing
Caddo Nation	OK	6	assessment/cleanup	ongoing
Choctaw Nation	OK	6	assessment/cleanup	ongoing

Community Assisted	State	Region	Project Phase	Status
City of Abbeville	LA	6	assessment	ongoing
City of Clayton	NM	6		ongoing
City of Hamilton	TX	6	cleanup	ongoing
City of Medford	OK	6		ongoing
City of New Orleans	LA	6	planning	ongoing
City of Port Arthur	TX	6	assessment	ongoing
City of Raton	NM	6	assessment	ongoing
City of Texarkana	TX	6	assessment	ongoing
City of Tonkawa	OK	6		ongoing
City of Ville Platte	LA	6	redevelopment	ongoing
Coalition of Community Organizations Houston	TX	6		ongoing
Concho (Cheyenne and Arapahoe Tribes)	OK	6	cleanup	ongoing
Dalhart Economic Development Corp	TX	6	planning/assessment	ongoing
East Texas COG	TX	6		ongoing
El Paso County	TX	6		ongoing
Farmington MRA	NM	6	assessment	ongoing
Fort Smith (WAPDD)	AR	6		ongoing
Gatesville	TX	6	cleanup	ongoing
Gulf Coast Housing Partnership, Inc.	LA	6		
Hopkins Street Economic Development District	LA	6	planning	ongoing
Houston Land Bank	TX	6		ongoing
Iowa Tribe of Oklahoma	OK	6		
McCurdy Ministries Community Center	NM	6	redevelopment	ongoing
Muscogee (Creek) Nation, Okmulgee	OK	6		
North Delta RPDD	LA	6		ongoing
ODEQ/City of Woodward (Fort Supply)	OK	6	planning/assessment	ongoing

Community Assisted	State	Region	Project Phase	Status
Oklahoma City	OK	6	redevelopment	ongoing
Okemah	OK	6	assessment	ongoing
Pleasanton	TX	6		ongoing
Pulaski County	AR	6		ongoing
RAPC	LA	6		ongoing
Regional Planning Commission, Chalmette	LA	6	assessment	ongoing
Ruston	LA	6		ongoing
San Antonio	TX	6		ongoing
St. Bernard Parish,	LA	6		ongoing
St. Philip's School & Comm Center	TX	6	cleanup	ongoing
Stilwell	OK	6	cleanup	completed
Tahlequah (Cherokee Nation)	OK	6		ongoing
Town of Buffalo	OK	6	planning	ongoing
Town of Chester	AR	6	planning	ongoing
Town of Springer	NM	6		ongoing
Town of Tullahassee	OK	6	planning	ongoing
Village of Des Moines	NM	6		ongoing
Village of Natchez	LA	6	planning/assessment	ongoing
Wyandotte Nation	OK	6		
Baxter	IA	7		
Chadron	NE	7	assessment	completed
City of Alliance	NE	7	planning	ongoing
City of Beatrice	NE	7	planning	ongoing
City of Caldwell	KS	7	planning	ongoing
City of Clinton	IA	7	planning/assessment	ongoing
City of Eldora	IA	7	planning	ongoing

Community Assisted	State	Region	Project Phase	Status
City of Ft. Dodge	IA	7	assessment	completed
City of Fulton	MO	7	planning	ongoing
City of Hannibal/Marion-Ralls Port Auth	MO	7	planning/assessment	ongoing
City of Holden	MO	7	planning	ongoing
City of Howardville	MO	7	planning	ongoing
City of Iola	KS	7	planning	ongoing
City of Jennings	MO	7	planning	ongoing
City of Joplin	MO	7	planning	completed
City of Kansas City	MO	7	planning	ongoing
City of Marshalltown	IA	7	planning	ongoing
City of Mason City	IA	7	assessment	completed
City of Moline Acres	MO	7	planning	ongoing
City of Oskaloosa	IA	7	assessment	completed
City of Palmyra	MO	7	planning	completed
City of Pawnee Rock	KS	7	planning	ongoing
City of Perry	IA	7	assessment	completed
City of Pittsburg	KS	7	planning	completed
City of Red Oak	IA	7	planning	ongoing
City of Sioux City	IA	7	planning	ongoing
City of Springfield	MO	7	RLF assistance	ongoing
City of Waterloo	IA	7	cleanup	completed
Council Bluffs	IA	7	cleanup	completed
Cozad Development Corp	NE	7	planning	ongoing
DeSales Community Development	MO	7	planning	ongoing
ECIA	IA	7	planning	completed
Flint Hills Regional Council	KS	7	planning	ongoing

Community Assisted	State	Region	Project Phase	Status
Glidden	IA	7	planning	ongoing
Grand Island	NE	7		
Hastings	NE	7		
Heart of the City Neighborhood Association	MO	7		
Jackson County Economic Alliance	IA	7	planning	ongoing
Kansas City	KS	7	planning	ongoing
Moline Acres	MO	7	planning	ongoing
Nashua	IA	7	planning	completed
North Central Regional Planning Commission	KS	7		
Regional Development Association of East Central Kansas	KS	7		
Reno County	KS	7	cleanup	completed
Seward	NE	7		
Southeast Iowa Regional Planning	IA	7	cleanup	completed
Washington	IA	7		
West Central NE Development District	NE	7	planning	ongoing
Wichita	KS	7		
Winnebago Tribe of Nebraska	NE	7	128(a)	ongoing
Winslow	NE	7		
Baca County, Springfield	CO	8		
Big Sky Economic Development	MT	8		
Carter County (Ekalaka)	MT	8	cleanup	ongoing
Cass Lake (Leech Lake Band of Ojibwe)	MN	8	assessment/cleanup	ongoing
Center	CO	8	assessment	completed
City of Brighton	CO	8		
City of Northglenn	CO	8	cleanup	ongoing
City of Pueblo	CO	8		

Community Assisted	State	Region	Project Phase	Status
City of Sheridan	CO	8	assessment/cleanup	completed
City of Sioux Falls	SD	8	redevelopment	ongoing
City of Thornton Economic Development	CO	8		
Crow Creek Sioux Tribe	SD	8	assessment/cleanup	ongoing
Delta County	CO	8		
Elevation Community Land Trust	CO	8	cleanup	completed
Evans	CO	8	assessment	completed
Fargo Housing & Redevelopment Authority	ND	8	cleanup	completed
Focus Points Family Resource Center	CO	8	redevelopment	completed
Fort Belknap Indian Community	MT	8		
Fort Peck Assiniboine & Sioux Tribes	MT	8		
Friends of Raymer	CO	8	cleanup	ongoing
Ft. Berthold, Three Affiliated Tribes	ND	8	TRP/assessment/cleanup	ongoing
Great Falls Development Authority	MT	8	cleanup	completed
Headwaters RC&D	MT	8		
Idaho Springs	CO	8	assessment/cleanup	completed
Joliet (Beartooth Resource Conservation)	MT	8	redevelopment	completed
Kalispell	MT	8		
Keating School	CO	8	cleanup	ongoing
Kiowa County	CO	8		
Lincoln County	MT	8	redevelopment	ongoing
Lower Brule Sioux Tribe	SD	8	128(a)	ongoing
McKenzie County	ND	8	assessment	completed
Missoula County	MT	8	redevelopment	ongoing
Mt. Carmel Health Wellness and Comm Center	CO	8	cleanup	completed
North Valley Public Library Board	MT	8		

Community Assisted	State	Region	Project Phase	Status
Northern Cheyenne Tribe	MT	8	128(a)/104(k)	ongoing
Olde Town Arvada Business Improvement District	CO	8		
Prowers County	CO	8		
Rapid City	SD	8		
Rawlins	WY	8	assessment	completed
Roundup (Musselshell County)	MT	8	redevelopment	ongoing
Saguache County	CO	8		
San Miguel County	CO	8	assessment	completed
Sheridan County Conservation District	WY	8	assessment/cleanup	completed
Sisseton Wahpeton Oyate	SD	8		ongoing
South Dakota Department of Agriculture and Natural Resources	SD	8	assessment	completed
South Dakota Petroleum and Propane Marketers Association	SD	8		
Standing Rock Sioux Tribe	ND	8		
Stevensville	MT	8	assessment/planning	ongoing
Town of Otis	CO	8		
Town of San Luis	CO	8	assessment	completed
Town of Silverton	CO	8	assessment/cleanup	completed
Watershed, Inc., Buena Vista	CO	8		
Whitefish Soroptimists	MT	8	assessment	completed