Growing your Brownfields Inventory

Katie Bante
Tanana Chiefs Conference
Office of Environmental Health
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The Four Elements (+1)

- Timely survey and inventory of brownfields sites
- Oversight and enforcement authorities
- Mechanisms and resources to provide meaningful opportunities for public participation
- Mechanisms for approval of a cleanup plan and verification that cleanup is complete
- The Public Record requirement
Purpose of the Inventory

- **EPA**: establish or enhance a system or process that will provide a reasonable estimate of the number, likely locations, and the general characteristics of brownfields sites in your tribal lands
- **Your TRP**:
  - Meet the grant requirement
  - Categorize?
  - Prioritize sites?
  - Raise awareness?
Public Record vs. Inventory

- *Public Record*: sites where response actions have occurred
- *Inventory*: brownfields sites with or without completed actions at the site
Response Actions

- Phase I & Phase II Environmental Site Assessment
- Cleanup Planning
- Clean up
- Reuse Planning
- Redevelopment
- Check DEC Contaminated Sites database!
Public Record vs. Inventory

- **Public Record**: sites where response actions have occurred
- **Inventory**: brownfields sites with or without completed actions at the site
Brownfields Inventory

- Catalog of site-specific information about brownfields
  - Abandoned or underused property
  - Known or perceived contamination
  - Desire or plan to reuse this property
- Can be detailed or a summary
- Helps you meet your TRP's objectives
- May include sites from your Public Record
Your "Decision Matrix"

- What is a brownfield and when does it go on the inventory?
- What other information do you want to capture for stakeholders?
- When will you survey a site for the inventory?
- How will you find sites?
- How do you manage public perceptions?
PLANNING AN INVENTORY
CHECKLIST OF QUESTIONS

Below is a simple checklist of questions that you should consider before launching an inventory effort. Consider outlining answers to each question to help guide you during the inventory development stage.

• What is the purpose of this inventory?
• Who is the intended audience?
• What information is required to meet the purpose of the inventory and the needs of the audience?
• How many resources do I have to devote to this effort?
• What is the geographic area to be covered?
• What funding sources are available to assist in this effort?
• What platform (e.g., hard copy, electronic) is most appropriate for meeting the needs of the audience?
• Are there critical project partners/stakeholders that need to be engaged up front in the inventory development process?
• What sources will be used to collect data to populate the inventory?
• How will this inventory be updated?

Resources
Creating the Inventory

- Brownfield Inventory Tool (BIT)
- ATSDR's Brownfields and Land Reuse Site Tool
- EPA Resources
- Templates from other TRPs
- Build it from scratch
Brownfields Site Inventory Tool

What Is BIT?

The Brownfield Inventory Tool (BIT) is a Free, web-based, comprehensive site inventory and brownfields program management tool. BIT was designed especially for users working under an Environmental Protection Agency (EPA) cooperative agreement requiring the submittal of a Property Profile Form, but any entity working on establishing a site inventory database will find BIT very helpful. Cities, regional coalitions, and Tribes can also use BIT to consolidate environmental and administrative information from sites in multiple programs.

Users may enter detailed site data, upload documents and data, and generate and export a variety of reports, including the Property Profile Form. BIT can also be used as a collaborative tool where specific inventory data can be accessed by multiple users if permission by the primary user is granted. All information entered into BIT is username/password protected to ensure privacy.

BIT is very user friendly and instructions can be found on every page of the program.

BIT was developed by the TAB (Technical Assistance to Brownfields communities) program at Kansas State University with funding from the U.S. Environmental Protection Agency (EPA) under Cooperative Agreement TR83399401.

A desktop edition of BIT that allows users to store data on their individual computers (instead of on a web-based server) is now available for free download at the BIT website.

BIT Advantages

- Help meet EPA site inventory, public record and notice, and reporting requirements
- All site data available in your own password protected database
- Multiple entities may work together to create/use the database
- All information/data entered into BIT is password protected to prevent unauthorized use
- Data can easily be imported or exported for individual or multiple sites
- A mapping feature allows viewing of site or sample locations
- Instructions available on every page in BIT
- Contains additional brownfields-related resources

Contact Information:
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Phone: 785-532-0780

BIT WEBSITE: http://tab-bit.org

What is the ATSDR Brownfield and Land Redevelopment Program?

This tool is a rapid screening and multiple chemical exposure calculating tool that allows users to assess sites by calculating exposure, using dose-response controls, sensitive populations, and suspected or known sites.

Why was the Brownfield and Land Redevelopment Program Developed?

A survey of local health departments indicated a need to:
- Provide inventory of sites.
- Store records for public inquiry of sites.
- Respond to inquiries.
- Catalogue institutional controls, health controls, and properties related to the property.
- Provide a “How To” guide to conduct a site visit.
- Evaluate exposures by defining exposed population groups or ingestion rates for population groups or use other high exposure high risk statistical parameters.
- Test the data for Normal/Log Normal distribution (2-10 minute throughout).
- Verify calibrations.
- Troubleshoot analytical problems.
- Set up quality-assurance or quality-control plans.
- Conduct research and development.

What entities are using the ATSDR BIT?

- Health Departments (from local to state level)
- Development Community
- Regulatory Agencies
- Planners
- Environmental Health Professionals

Agency for Toxic Substances and Disease Registry
Division of Community Health Investigation
ATSDR Brownfield and Land Reuse Site Tool®

Environmental Health

What is the ATSDR Brownfield and Land Reuse Site Tool®?

This tool is a rapid site screening and multiple chemical exposure dose calculating tool that allows users to assess sites by past/future use, institutional controls, sensitive populations, and suspected or confirmed contamination.

Why was the Brownfield and Land Reuse Site Tool® Developed?

A survey of local health departments indicated a need for a system to:

- Provide inventory of sites.
- Store records for public inquiry of sites.
- Respond to inquiries.
- Catalogue institutional controls, health concerns, violations, spills, contaminants, and emergency response events related to the property.
- Provide a "how to" guide to conduct a site visit.
- Evaluate exposures by defining exposed populations and sub-groups, multiple exposure pathways, use specific ingestion rates for population groups or use defaults.
- Calculate doses using ranges of exposure parameters, 95% Upper Confidence Limits, geometric mean, and other statistical parameters.
- Test the data for Normal or Log Normal distributions, import and process laboratory data (10,000 data points per minute throughout).
- Verify calculations.
- Troubleshoot analytical problems.
- Set up quality assurance or quality control programs.
- Conduct research and development.

What entities are using the ATSDR BF and LR Site Tool®?

- Health Departments (from local to state level)
- Development Community
- Regulatory Agencies
- Planners
- Environmental Health Professionals

To learn more about the ATSDR Site Tool:

To learn more contact Laurel Berman, at (312) 886-7476, Lerman John, at (312) 890-562, or Gary Perkins at (617) 974-1313 or e-mail an at atsd.landreuse@cdc.gov
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Benefits of Completing your Brownfields Inventory

(and what to do with it!)

• Better understanding of what you have
• Understand who these sites are affecting
• Determine resources needed to address sites
• Better utilize resources for assessment, clean up, and reuse
• Prioritize sites
• Develop a plan of action
Growing your Inventory

_Sowing the Seeds for a Fruitful Effort_

- Understand the purpose of the inventory and know the difference from the Public Record requirement
- Plan your inventory to meet your TRP's needs
- Choose appropriate tools to create inventory
- Share the inventory with stakeholders
- Use the inventory to prioritize sites in your community
- Continue adjusting your inventory to meet your needs
"Discover the past. Understand the present. Change the future."

-Kathryn Erskine
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