## Region 3 Lead Forum

How Brownfields
Resources Can Address
Lead in Communities
October 2, 2019

Kristeen Gaffney
Chief, Brownfields & Revitalization Branch
215-814-2092
Gaffney.Kristeen@epa.gov

## Past Property Uses that may be Brownfields ~ Review Draft ~ May 2019 ~

Looking around your community, what kinds of past uses do you see? Many commercial, industrial and even some residential properties may be environmentally contaminated due to past uses at the site. People who live, work, go to school, play or exercise on or near a property may not realize it is a brownfield site! They may not know walking or playing on site can cause potential exposure to contaminants.

Communities can request technical assistance or seek funds from EPA, state or tribal programs to assess properties and determine the history and past uses, the likely presence, sources and extent of possible contamination. By understanding past property uses, communities can better understand health and environmental risks. Listed below are common past uses of brownfields.<sup>1</sup>



PAHs from coal and diesel combustion, asphalt,

Lead used in vehicle, structure and sign paint, solder for radiator and car repair.

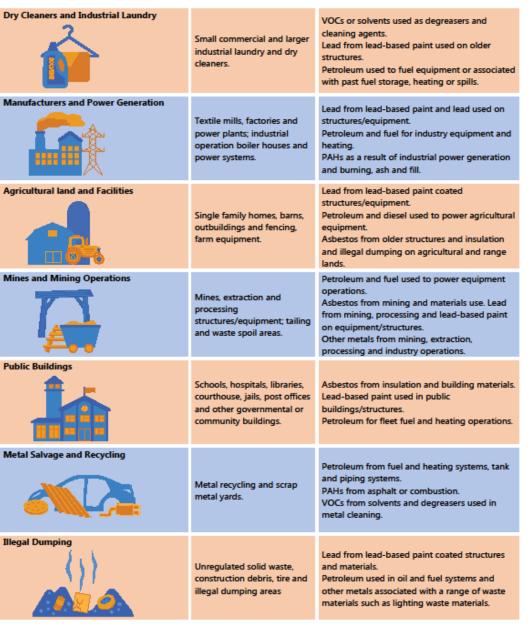
ash and fill disposal.

#### Possible Contaminants Past Property Use Examples **Housing and Residential Areas** Asbestos used in insulation of heating and Single/multifamily homes, cooling systems, floor, wall/roofing materials. apartment buildings and Lead from lead-based paint and materials in other structures built before homes, and apartments. 1978; garages, sheds or Petroleum and fuels stored for use in heating barns. Gas Stations and Fuel Storage Gasoline, diesel, and heating oil used as in fuels Gas station buildings. structures/signs; Volatile organic compounds (VOCs) and solvents underground storage tanks used for cleaning and repair. and piping; storage areas for Polycyclic aromatic hydrocarbons (PAHs) from oil, fuel, or solvents. asphalts and as a combustion byproduct. Railroad Facilities Lead from lead-based paint used on older structures, signs, metal equipment, railcar rolling Railroad lines, rail yards, rail stock, and in repair. spurs; roundhouse, rail car Other metals used in railcar repair, railroad ties repair/maintenance facilities; wood treatment. train stations/depots. PAHs from coal and diesel combustion, ash and fill disposal. **Automotive Repair** Petroleum associated with fuels, spills and past Structures and properties gas or fuel operations and heating systems.

associated with automobile.

truck and bus body repair;

radiator and muffler repair.



'EPA grant recipients are required to report about brownfield properties and grant funded activities through EPA's Assessment, Cleanup and Redevelopment Exchange System (ACRES). The following information about the history and description of a brownfield property does not reflect all examples of past uses reported at brownfield properties but provides a national snapshot. This data is publicly available at www.epa.gov/cleanups/cleanups/rep.my-community



### THE BROWNFIELD PROCESS SEA UNITED PROCESS SEA UNITED PROCESS SEA UNITED PROCESS SEASON AND PROCESS SEASON AN



**IDENTIFY SITE WITH** REUSE POTENTIAL

PHASE I ASSESSMENT ALL APPROPRIATE INQUIRY

ENTER STATE **VOLUNTARY CLEANUP** PROGRAM



**COMMUNITY INVOLVEMENT** 



A C MR

**CLEANUP PLAN** 







SITE VISION AND REUSE





ASSESSMENT





LEVERAGE **RESOURCES** 



CLEANUP **ACTIVITY** 



REDEVELOPMENT



**EPA BROWNFIELD GRANTS AND RESOURCES** 

TARGETED BROWNFIELD ASSESSMENT=

ASSESSMENT=

CLEANUP=

REVOLVING LOAN FUND=

MULT-PURPOSE=

#### Brownfields & Public Health

## Brownfields lead to disinvestment and deteriorating quality of life for communities

- Contaminants, pollutants and exposure concerns
- Safety risks trespassing, vandalism, derelict structures or foundations, controlled substances, homeless populations
- Social and Economic higher crime rates, higher vacancy rates, declining property values, reduce social capital
- Environmental Justice
- Sensitive populations



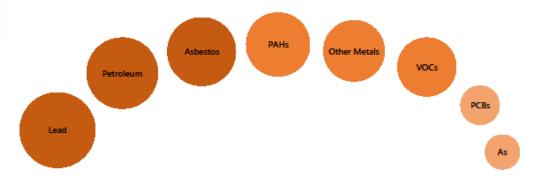
## Environmental Contaminants Often Found at Brownfield Sites ~ May Review Draft ~

Brownfield properties are often overlooked for reuse or redevelopment due to fear of environmental contamination.

Understanding the types of contaminants present (or potentially present) and how people may be exposed to those contaminants will help a community plan cleanup and site reuse options that limit exposure risk.

EPA, states and tribes have programs that can help communities identify properties that are brownfields, determine whether the property is environmentally-contaminated, address contamination when needed and plan for site reuse that will bring new benefits to the community.

Below are the contaminants most commonly reported from brownfields cleaned up using grant funds. Each circle's size reflects how often the contaminant was reported to EPA.<sup>1</sup>



Contaminant	Substance Type	Examples of Past Uses
1. Lead	Metals	Mining, fuel, paint, inks, piping, batteries, ammunition
2. Petroleum	Oil, hydrocarbon compounds	Drill and refining, fuel, chemical and plastic production
3. Asbestos	Fiber in rock	Mining and processing, piping, insulation, fire proofing, brakes
4. Polycyclic aromatic hydrocarbons (PAHs)	Hydrocarbon compounds, combustion byproduct	Coal tar, creosote, soot, fire, industry/ manufacturing byproduct
5. Other metals	Metals	Metal fabrication, plating, mining, industry/ manufacturing
6. Volatile organic compounds (VOCs)	Manmade chemicals	Industry and commercial product solvents, degreasers, paint strippers, dry cleaning
7. Polychlorinated Biphenyls (PCBs)	Manmade chemicals	Heat and electrical transfer fluids, lubricants, paint and caulk
8. Arsenic (As)	Metals	Pesticides, agriculture, manufacturing, wood preservative

### **EPA's Brownfields Support**

- Grant Activities (5 types of competitive grants offered):
  - Brownfields Assessment/Planning (up to \$600K)
  - Brownfields Cleanup (up to \$500K)
  - ► Multipurpose (up to \$800K)
  - Revolving Loan Fund (up to \$800K)
  - Environmental Workforce Development & Job Training (\$200K)
- FREE Technical Assistance (non-competitive):
  - Brownfields Site Assessments (TBA)
  - Brownfields Project consulting (TAB)
  - ► Financial Project Planning (CDFA)
  - Community engagement (Groundworks)
  - Brownfields Federal Programs Guide
  - Other technical support



RFPs for FY20 Funding will be released this week and proposals due in December!

#### How to Apply for Grants

- Annual competition ~ \$70 million awards
- The guidelines for FY20 funding early October. Applications will be due 12/3.
- FY20=Assessment, RLF and Cleanup. No multipurpose. No Job Training.
- Submit through Grants.gov
- EPA will host a webinar on how to apply

#### Current Brownfields Community Funding –

#### Where will the next big redevelopment be?

- Lynchburg
  - \$300K Assessment grant
- Wilmington
  - \$300k Assessment grant
  - Just completed a \$200k planning grant
  - \$200K Job Training grant (West End)
- Baltimore
  - Two \$200k Assessment grants
- Norfolk
  - \$300k Assessment
  - \$200k Planning grant

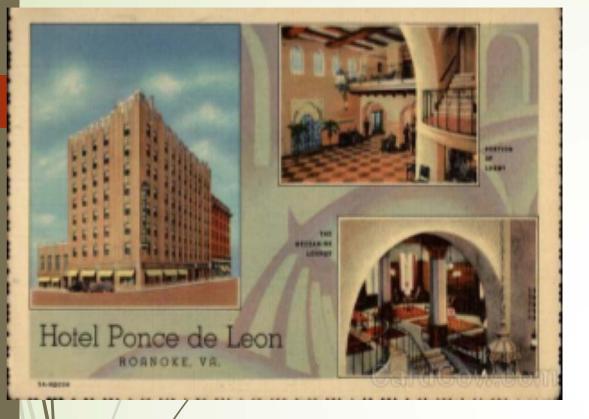
- Scranton
  - \$600k Assessment grant with Lackawanna County
- Richmond
  - \$600k Assessment grant
- Huntington
  - \$400k Assessment grant
  - \$800k RLF grant
  - \$200k Job Training grant (Coalfields)
  - \$500k Cleanup grant
  - \$600k Assessment grant with Reg 2 planning

#### After





Lancaster, PA
Contaminated site
Now Roberto Clemente park and
playground





Roanoke, VA Crystal Tower Building old hotel now Ponce de Leon Apartments

https://www.epa.gov/sites/production/files/2017-10/documents/epa\_oblr\_successstory\_crystal\_tower.pdf



#### After







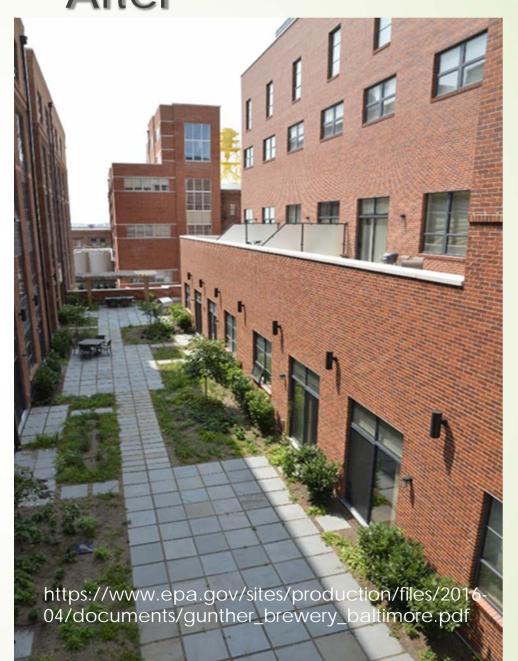


Canton Crossing Baltimore, MD



Gunther Brewery Baltimore, MD

#### **After**







#### Stone Brewery, Richmond, VA

https://www.epa.gov/sites/production/files/2019-09/documents/cheers\_to\_a\_revitalized\_neighborhood.pdf



Former Hi-Tech Gas Station Now Community Parking Area and Greenspace Wilmington, DE









https://www.epa.gov/sites/production/files/2019-03/documents/brownfields\_to\_brewery.pdf

Wilmington, DE – Harper Thiel electroplater becomes Wilmington Brew Works and restaurant.

## BENEFITS OF BROWNFIELDS REVITALIZATION

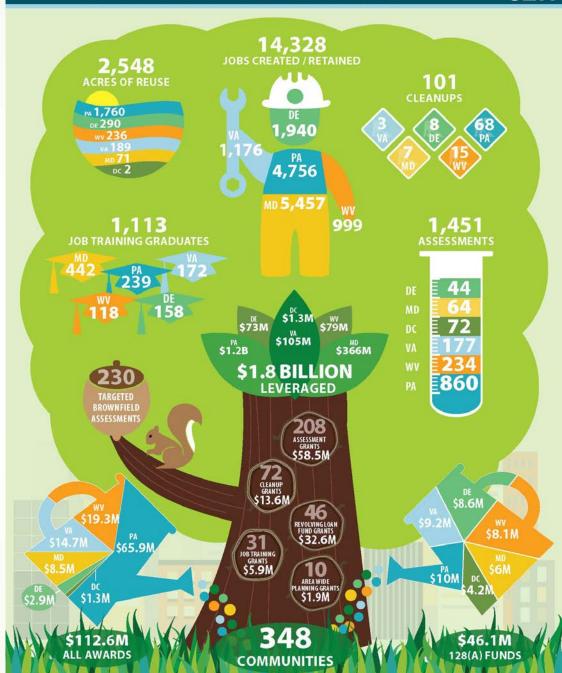
- Provides places for business growth and job creation
- Removes blight and improves community health and appearance
- Restores/enhances the local tax base
- Utilizes existing infrastructure
- Protects the region's environment and reduces urban sprawl





## Region 3 Brownfields Program Snapshot (2018)

- Over 2,200 sites assessed or cleaned up
- Over \$121 Million awarded to close to 375 community entities
- Annually, manage 80-100 open grants valued at \$30M-\$40M
- Thousands of Jobs created Billions leveraged.



# How we can help



- Check our website for tools and resources on all types of BF reuse options
- Workshops for communities
  - Brownfields Basics (101)
  - Grant writing how to write a successful proposal
  - Brownfields 201 leveraging resources
- Targeted Brownfields Assessments
- Brownfields state liaisons
- Brownfields mailing list (stay in the know)
  - Monthly email blast on funding, training, resources and tools
- New Jersey Institute of Technology <a href="http://www.njit.edu/tab/">http://www.njit.edu/tab/</a>

Check out *EPA's Brownfields Federal Program Guide* 

https://www.epa.gov/brownfields