

The Social and Ecological Legacies of Post-industrial Sites and their Potential Futures

(How I Learned to Stop
Worrying and Love Detritus)

Kasia Keeley | University of Washington

Adaptively reusing this waste landscape figures to be one of the twenty-first century's great infrastructural design challenges.

- Alan Berger

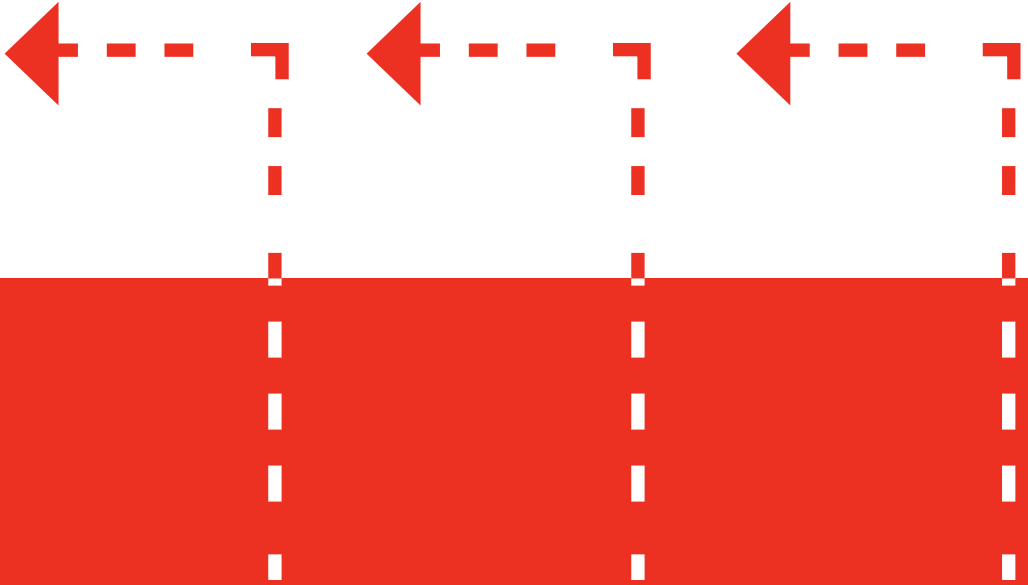
As designers, how do we choreograph our relationship to historic wastescapes?

- Preservation - Heritage
- Landscape Precedents
- Current Practices
- Future Potentials

Zeche Zollverein

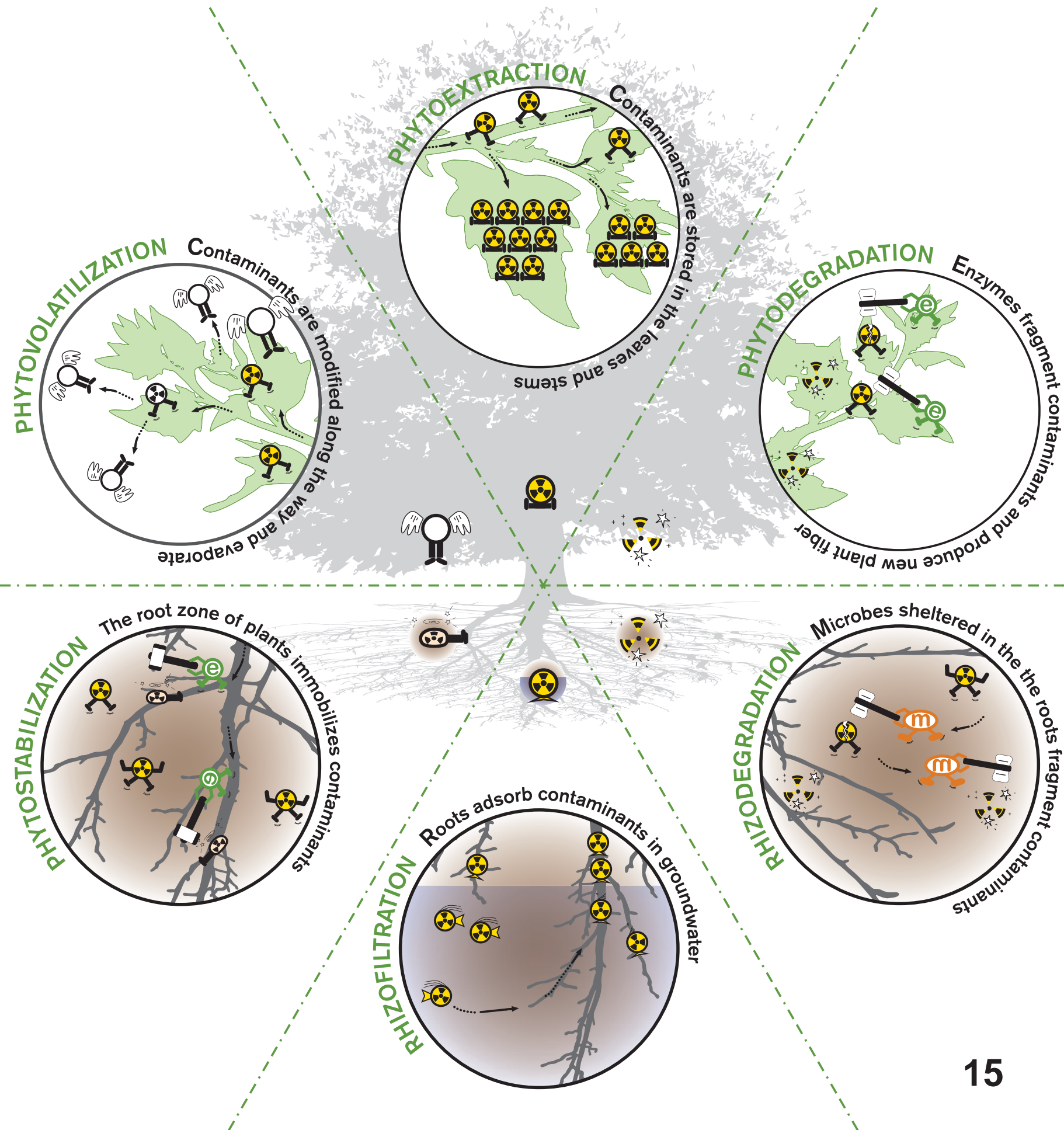


Conventional Methods



Phytoremediation

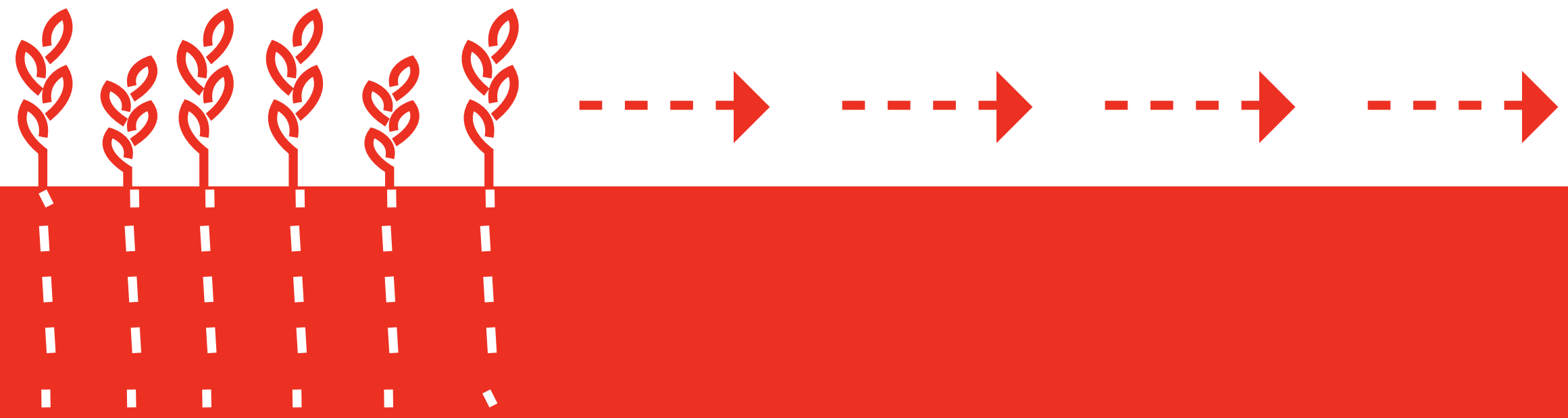




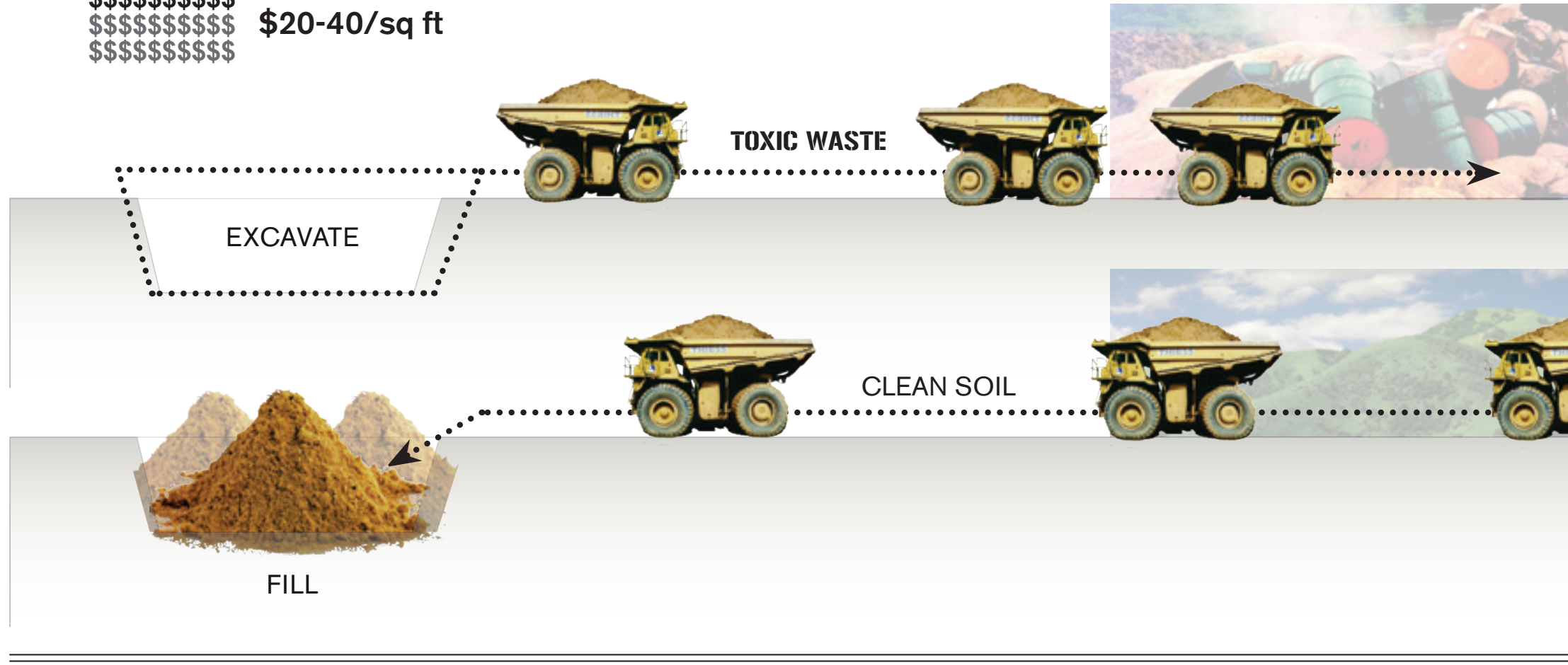
Conventional Methods



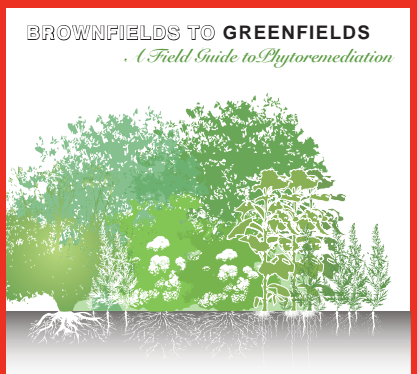
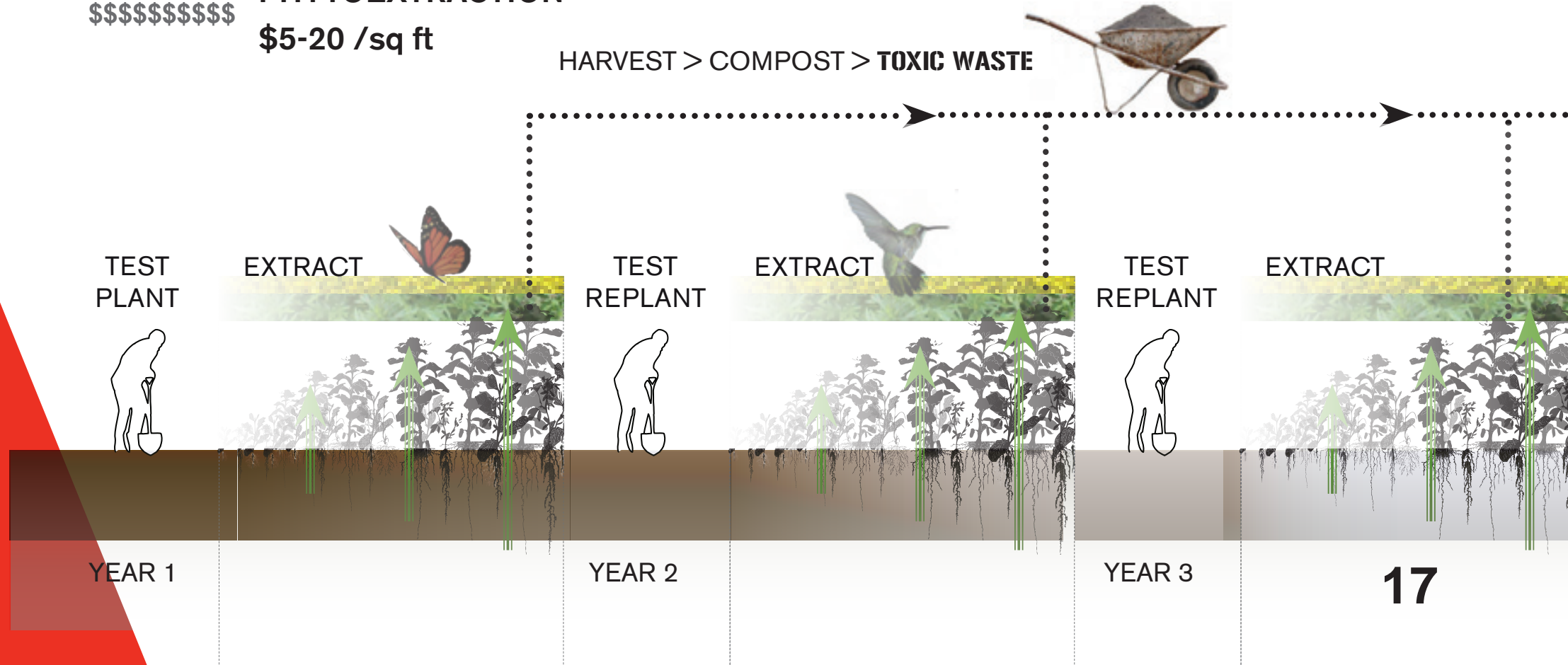
Phytoremediation



\$\$\$\$\$\$\$\$ EXCAVATION AND FILL
\$\$\$\$\$\$\$\$ \$20-40/sq ft
\$\$\$\$\$\$\$\$



\$\$\$\$\$\$\$\$ PHYTOEXTRACTION
\$\$\$\$\$\$\$\$ \$5-20 /sq ft
\$\$\$\$\$\$\$\$



The impact of toxic waste as a real artifact in its original setting should not be overlooked as a way of conveying to visitors the impact of industrial technologies upon workplaces, communities, and landscapes.

- Donald Hardesty, Anthropologist



Gas Works Park



Industrialisation and de-industrialisation have completely transformed conceptual juxtapositions that were formerly clear and distinct... and can be characterised better in their hybrids...

- Ellen Braae, Professor of Landscape Architecture



Landschaftspark





By replacing the binary way of thinking with other conceptual strategies, landscape architecture can foster a land ethic and aesthetic predicated upon a continuum between human nature and nonhuman nature...

- Elizabeth Meyer, Professor of Landscape Architecture





Bellingham, WA



Connecting it to both to the city and the water's edge.

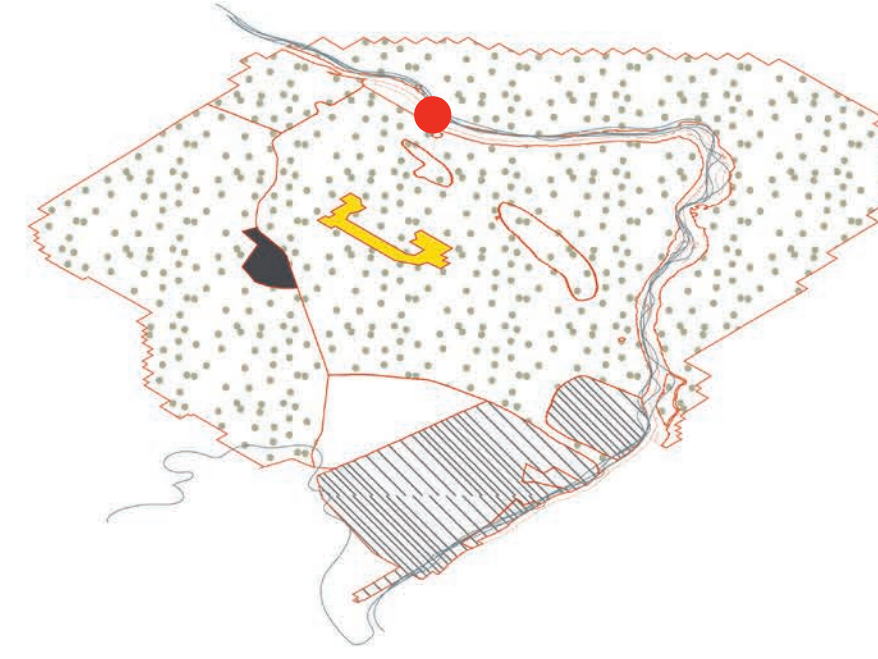
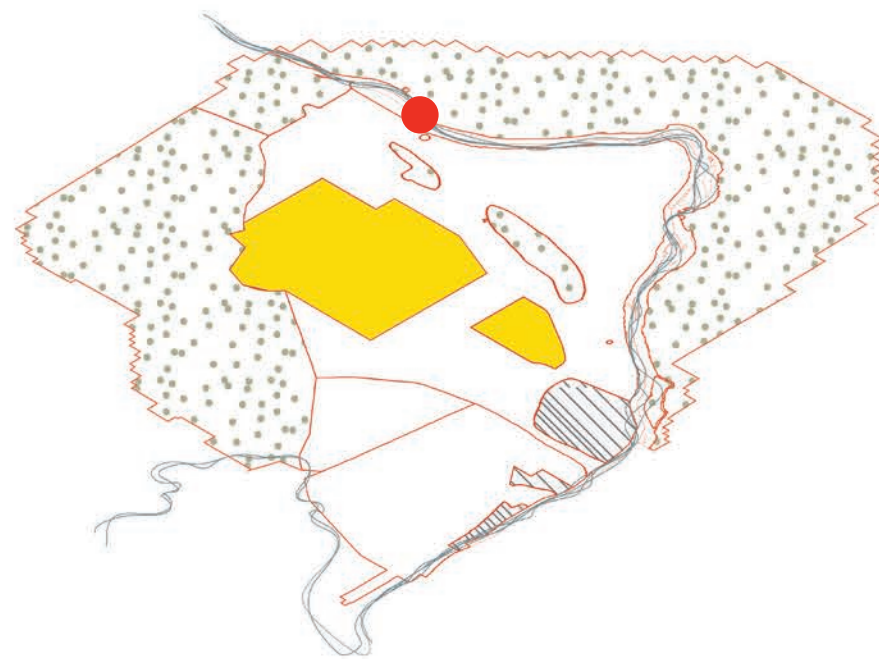




Hanford Site, WA

In the Anthropocene, there is no possibility of removing human influence from ecosystems: anthropogenic transformation of the terrestrial biosphere is essentially complete and permanent.

- Erle C. Ellis, Professor of Geography and Environmental Systems



Hanford's Historic B Reactor

An Unprecedented Marvel of Science, Technology and Engineering

Designated by DOE as a Manhattan Project Signature Facility

2017 HANFORD CLEANUP TOURS REGISTER NOW

2017 HANFORD CLEANUP TOURS Register Now

UNITED STATES DEPARTMENT OF ENERGY FIELD OFFICES AT HANFORD

Office of River Protection

Waste Treatment Plant Tank Farms

Richland Operations Office

River Corridor Central Plateau Cleanup

222-S Laboratory

Groundwater Mission Support

TOP STORIES

- Hanford Cleanup Progress Fact Sheet - March 2017
- Hanford Cleanup Tour Registration Begins in April
- Workers Successfully Bring Down Historic "McCluskey Room" at Hanford
- Retrieval Activities Completed in Double-Shell Tank AY-102

EVENT CALENDAR

- APR 14** Public Comment Periods
60-Day Comment Period on Proposed Changes to the Hanford Waste Treatment and Immobilization Plant Permit
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- APR 18** Public Involvement Meetings
Hanford Advisory Board River and Plateau Committee meeting



B Reactor



ERDF

Mankind is not headed towards a bigger and better world, but towards a future where distinctions are blurred and differences are slowly dissolved. But this opens new opportunities for a greater artistic freedom to shape the present every-day world.

- Ellen Braae, Professor of Landscape Architecture

Small-scale sites now
make up a majority of the
estimated 400,000 – 600,000
brownfield properties within
the United States.

Help

Legend

Home



249 cleanup sites within 1 mile
- Hide Table -

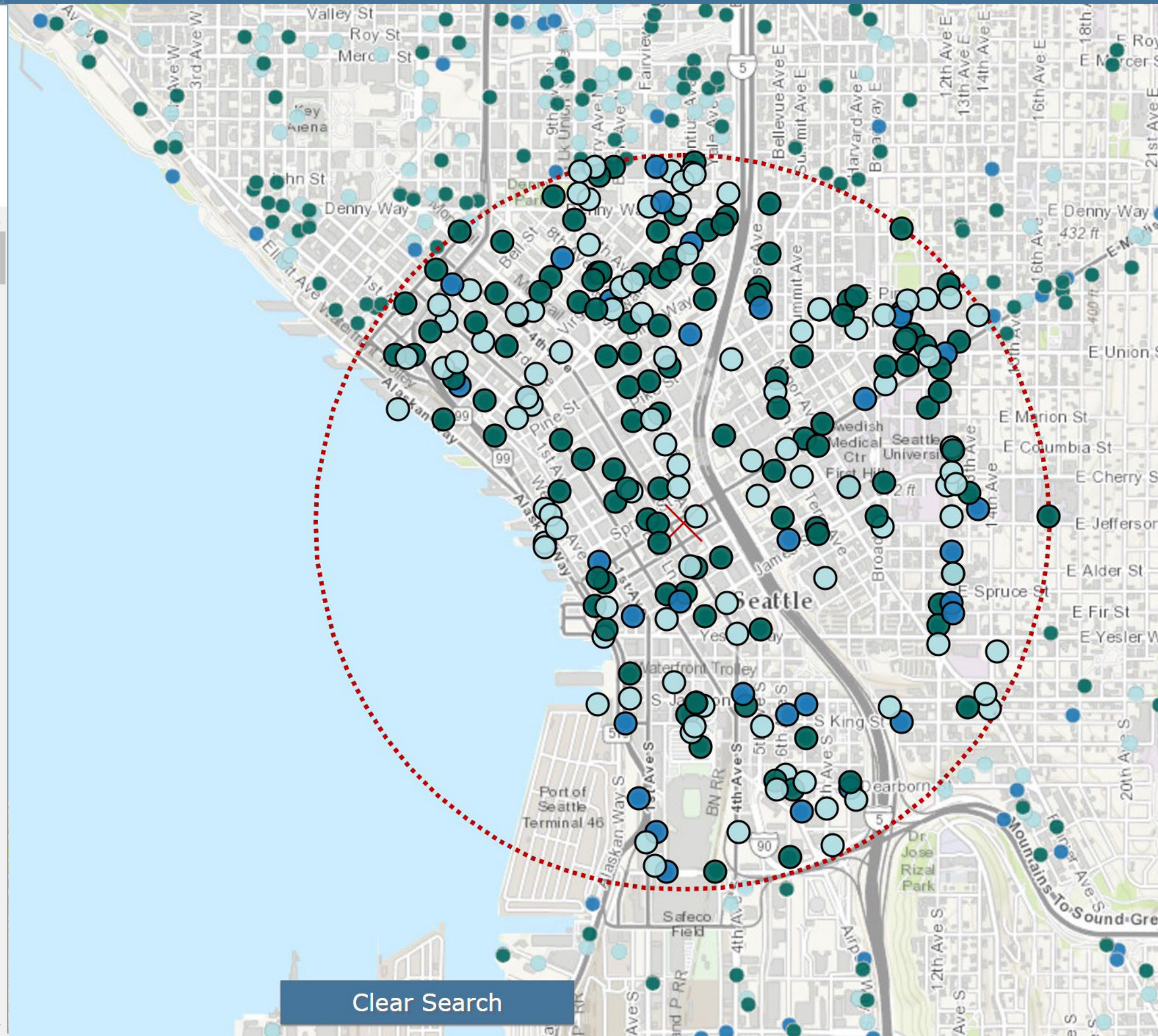
Export Data

Filter Results

Site Name

Site Status

Chromium Inc	Awaiting Cleanup
Maritime Building	No Further Action
WA DOT King & Alaskan Way S	Awaiting Cleanup
12th & Columbia	No Further Action
Boat Street Marina	Cleanup Started
Seattle Hilton Hotel Parking Garage	Cleanup Started
PARKER BLDG	No Further Action
West 8th Building	No Further Action
Seattle Housing Authority 12th Ave Brownfield Cleanup	No Further Action
Interbay Redevelopment Property	No Further Action
1214 8TH AVE	No Further Action
BMW SEATTLE PIKE ST	No Further Action
Seattle Port Term 48	Cleanup Started
WATERFRONT PLACE	No Further Action
NEVES PROPERTY	No Further Action
METAL LAUNDRY INCORPORATED	Cleanup Started



Clear Search

What's In My Neighborhood

Help

Legend

Home



63 cleanup sites within 1 mile
- Hide Table -

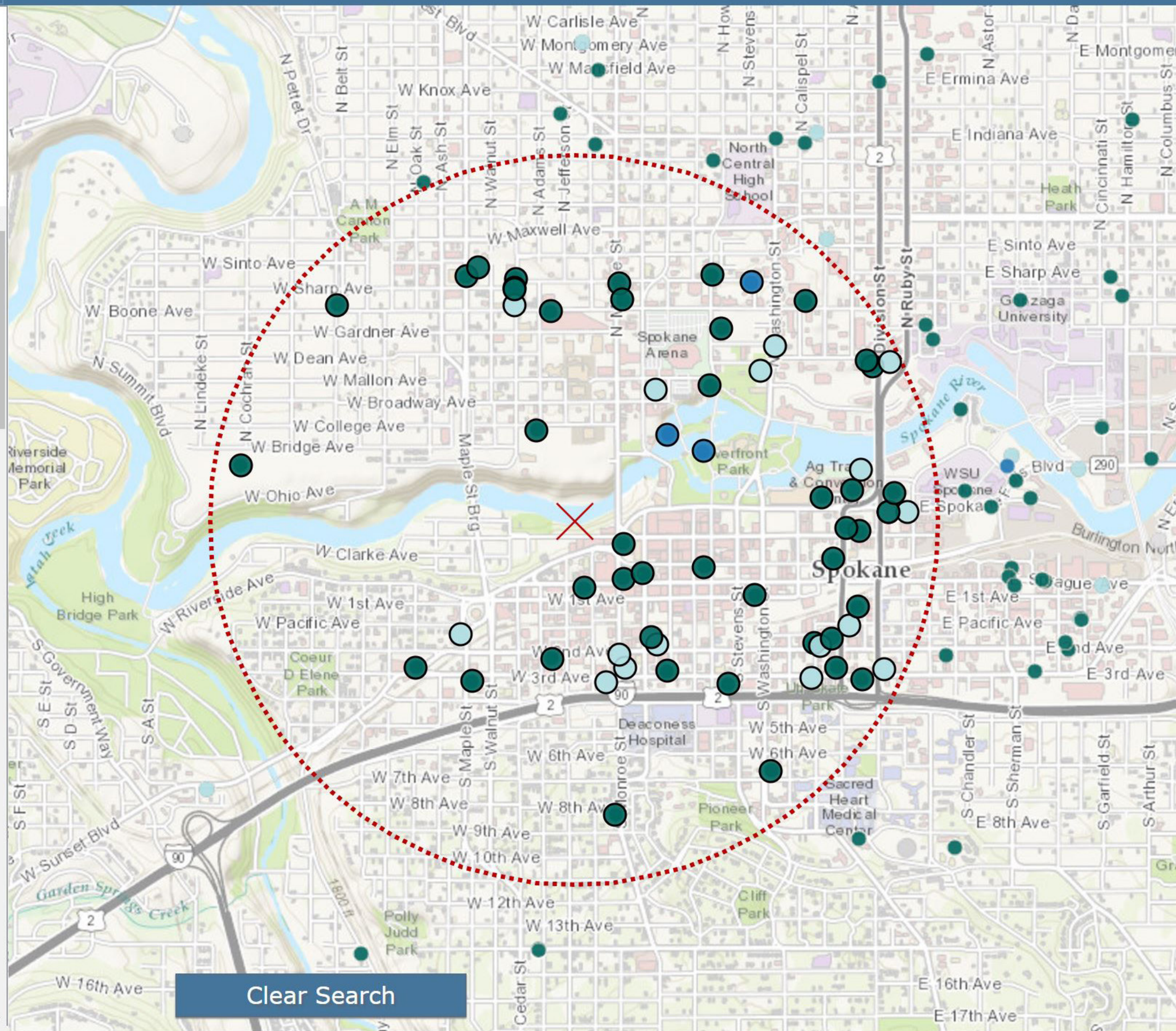
Export Data

Filter Results

Site Name

Site Status

SHERATON SPOKANE HOTEL PROPERTY	No Further Action
COWLES PUBLISHING CO GARAGE	No Further Action
NORTH AMERICAN BIOLOGICALS	No Further Action
UTTER MOTOR CO MAIN SHOP	No Further Action
CONTINENTAL BAKING CO SPOKANE	Cleanup Started
Northwest Vermiculite Inc	Cleanup Complete-Active O&M/Monitoring
FUDS FAIRCHILD NIKE 87	Awaiting Cleanup
AAMCO TRANSMISSION SEBCO	No Further Action
Washington Water Power Central Steam Plant	Cleanup Complete-Active O&M/Monitoring
Davenport Hotel	No Further Action
Upper Falls East	No Further Action
CITY RAMP GARAGE	No Further Action
Northbank Development	No Further Action
INLAND EMPIRE PLATING	No Further Action
River Front Properties	No Further Action



Clear Search



DEPARTMENT OF ECOLOGY State of Washington		Cleanup Site Details				4/19/2017		
SPOKANE COUNTY								
SITE ID:	Riverfront Park Spokane		Cleanup Site ID: 13026		FS ID: 11445			
Alternate Name(s):		Riverfront Park Spokane						
LOCATION:	WRIA: 57	Lat/Long:	47.662	-117.421	View Vicinity Map			
Address: 507 N HOWARD ST SPOKANE 99201		Township	Range	Section	Legislative District: 3 Congressional District: 5			
SPOKANE 99201		25N	43E	18				
STATUS:	Awaiting Cleanup		Rank:	View Site Web Page View Site Documents				
Responsible Unit: Eastern		Site Manager: Treccani, Sandra		Statute: MTCA				
Is Brownfield?		Has Environmental Covenant?		Is PSI Site?				
NFA Received?		NFA Date:		NFA Reason:				
ASSOCIATED CLEANUP UNIT(S)								
culID	Cleanup Unit Name	Unit Type	Process Type	Unit Status	Size (Acres)	ERTS ID		
13706	Riverfront Park Spokane	Upland	Voluntary Cleanup Program	Awaiting Cleanup				
SITE ACTIVITIES:								
Applies to:	Related ID (Unit-LUST-VCP)	Activity Display Name	Status	Start Date	End Date	Legal Mechanism	Performed By	Project Manager
VcpProject	EA0318	VCP Receipt of Plan or Report	Completed	8/11/2016	8/11/2016			Treccani, Sandra
VcpProject	EA0318	VCP Receipt of Plan or Report	Completed	8/11/2016	8/11/2016			Treccani, Sandra
VcpProject	EA0318	VCP Receipt of Plan or Report	Completed	2/7/2017	2/7/2017			Treccani, Sandra
VcpProject	EA0318	VCP Receipt of Plan or Report	Completed	5/26/2016	5/26/2016			Carter, Patti
VcpProject	EA0318	VCP Receipt of Plan or Report	Completed	12/2/2016	12/2/2016			Treccani, Sandra
VcpProject	EA0318	VCP Opinion on Remedial Investigation Work Plan	Completed	5/25/2016	6/21/2016			Carter, Patti
VcpProject	EA0318	VCP Opinion on Site Cleanup Plan	Completed	2/7/2017	4/4/2017			Treccani, Sandra
AFFECTED MEDIA & CONTAMINANTS:								
		Media:						
Contaminant:	Ground Water	Surface Water	Soil	Sediment	Air	Bedrock	Key: B - Below Cleanup Level C - Confirmed Above Cleanup Level S - Suspected	
Arsenic			C				R - Remediated RA - Remediated-Above RB - Remediated-Below	
Lead			C					
Metals - Other			C					
Polycyclic Aromatic Hydrocarbons			C					



Landschaftspark



Gas Works Park

Thanks!

Kasia Keeley. University of Washington.

Image Credits

Mabel, Joe. Wiki Commons. Wikimedia Commons. 2007. Web.

Brownfields to Greenfields: A Field Guide to Phytoremediation. New York: YouAretheCity, 2011. Print.

“Way Point” Acid Ball Proposal. Proposal to the City of Bellingham Arts Commission. October 2016. Web.

B Reactor Museum Association. 2016. Web.

United States Department of Energy. Environmental Restoration Disposal Facility - Hanford. Office of River Protection. Feb 2017. Web.

Nadvornick, Doug. Spokane Public Radio. March 2017.