Tapping Into the Emerging Green Economy



Green Economic Development Strategies for Community & Brownfield Redevelopment 09/15/2009

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Community Economic Development Division





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Preparing Brownfields For Green Business

- What is a Brownfield?
- IC 13-11-2-19.3
 - "Brownfield"
 - Sec. 19.3. "Brownfield" means a parcel of real estate:
 - (1) that:
 - (A) is abandoned or inactive; or
 - (B) may not be operated at its appropriate use; and
 - (2) on which expansion, redevelopment, or reuse is complicated; because of the presence or potential presence of a hazardous substance, a contaminant, petroleum, or a petroleum product that poses a risk to human health and the environment.

As added by P.L.59-1997, SEC.3. Amended by P.L.203-2003, SEC.1.







- Project Examples in Indy Context
 - Former Ertel Site Redevelopment Project
 - Titan Industries Travesty 2 Abandoned Plating Facilities Dumped on City (Greener Demo = Better Project)
 - Neighborhood Brownfield Initiative 2009
 - The Project School \$20,000 / \$10,000 LISC
 - Phytoremediation Pilot Project Keystone Enterprise Park
 - 2444 N. Winthrop Ave.
 - KIBI HQ Look around us!







- Former Ertel Manufacturing Corp. Redevelopment
 - Monster Project Brownfields at the Speed of Business
 - Greener Demolition / Waste Audit Process Created
 - Reuse of Foundry Sand as Good, FREE, Compactable Fill







- Former Ertel Manufacturing Corp. Redevelopment
 - Foundry Sand Reuse One Neighborhoods Nightmare becomes green reuse boon for reuse in another neighborhood!





MODENET DEVELOPMENT

Preparing Brownfields For Green Business

- Former Ertel Manufacturing Corp. Redevelopment
 - Foundry Sand Reuse One Neighborhoods Nightmare becomes green reuse boon for reuse in another

neighborhood!





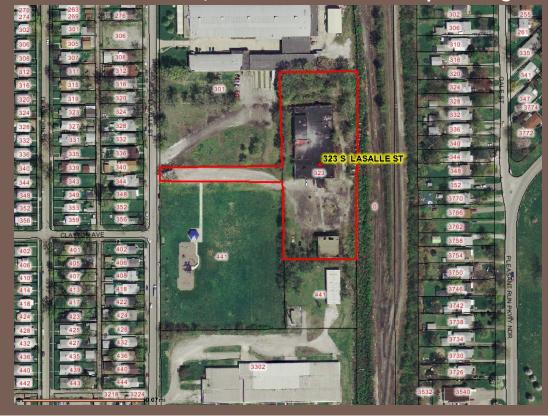






Legacy of Abandoned Plating Facilities

- 323 South LaSalle Street Assessment
 - Former Titan Industries, Inc. abandoned plating facility







Legacy of Abandoned Plating Facilities The Titan Travesty!



- 323 South LaSalle Street Assessment
 - Former Titan Industries, Inc. abandoned plating facility











Legacy of Abandoned Plating Facilities

- DEMOLITION 323 South LaSalle Street Assessment
 - Former Titan Industries, Inc. abandoned plating facility







Legacy of Abandoned Plating Facilities & the Link to Greener Demolition Practices



- DEMOLITION 323 South LaSalle Street Assessment
 - Demolition Environmental Oversight & Waste Audit
- Original Demolition Bids \$150,000 to \$300,000
- After: \$66,800 to \$115,000
- Completed with additional required removal for
- \$83,000 Total





Titan Travesty Part II: Yandes Street Legacy of Abandoned Plating Facilities



- Former Titan Industries, Inc. Plating Facility #2
 - **2422/2430** Yandes Street
 - Slated for Demolition late summer or Fall 2009
 - Demolition Bids Received & Project Awarded
 - Second IFA Brownfields Assessment Grant \$21,000 Remains







Legacy of Abandoned Plating Facilities & Prior Industrial Activity



- IDNR Urban Forestry Grant / HUD CDBG
 Phytoremediation Pilot Project Keystone Enterprise
 Park
 - 53 Hybrid Poplar Trees Planted Nov. 2007
 - GW Monitoring









- Neighborhood Brownfield Initiative (\$50,000)
 - The Project School Edible Schoolyard / Playgrounds













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IDNR Urban Forestry Grant / HUD CDBG
 Phytoremediation Pilot Project — Keystone Enterprise

Park









IDNR Urban Forestry Grant / HUD CDBG
 Phytoremediation Pilot Project – Keystone Enterprise
 Park











- 2400 Block of N. Winthrop Avenue Colonial Bakery
 - Fantastic Community Event Tire Amnesty Day Started this Project off in 2007!
 - \$100,000 IFA Brownfields Assessment Remediation Grant
 - KPADC









■ 2400 Block of N. Winthrop Avenue – Colonial Bakery

■ Fantastic Community Event — Tire Amnesty Day Started this

Project off in 2007!











- 2400 Block of N. Winthrop Avenue Colonial Bakery
 - Then State PRG \$132,000 UST Removal and Cleanup Grant









- 2110 Columbia Avenue Former Junkyard to GREEN Affordable Housing
 - \$60,000 IFA Brownfields Assessment Grant (Complete!)

■ Tax Credit Project with Developer











- Urban Farming Inquiries Exploding for Brownfield Sites and Urban Infill Lots (Mayor Noted this Recently!)
 - Safe Soils Issue is Paramount Establishing Interdisciplinary Effort to Create Country's First Standardized Protocols
 - US EPA
 - ATSDR
 - IDEM / IFA Brownfields Program
 - Marion County Health & Hospital Corp.
 - IUPUI Medical School Research Community
 - City of Indianapolis Brownfield Redevelopment Program
 - BrownLots2GreenPlots Plan for vacant parcels





























THOLANAPOLIS

- EPA CARE Grant

- Martindale Brightwood Environmental Justice Collaborative (MBEJC) & Improving Kids' Environment (IKE) EPA CARE GRANT \$98,000
 - Additional \$50,000 EPA Targeted Brownfield Assessment Grant
 - 1960/1964 Hillside Avenue Former Smith's Diesel Service Station







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- EPA CARE Grant

■ 1960/1964 Hillside Avenue Former Smith's Diesel Service Station — Felege Hiwyot Center Urban Farming Youth Education









Preparing Brownfields For Green Business — Sharing the Word

- □ First Brownfield Bicycle Tour! May 14, 2009
 - IUPUI Campus Compact & Peace Institute University students & Environmental Leadership Retreat









- □ IDENTIFICATION, PRIORITIZATION, then CHARACTERIZATION
 - These steps are required to identify ripe sites for redevelopment as well as opportunities to improve the environment including ground water impacts linked to additional concerns (Vapor Intrusion, etc. that halt redevelopment and cause threat to public health).
- Comprehensive Brownfield Inventory Project as an advanced means to Identify & Prioritize





Overview of INVENTORY



Hows

We: First Consulted with Office of Corporation Counsel to address potential liability considerations.

- Rumored State of Texas "takings" case just that... a rumor.
- Recognized the benefits of malleable database outweigh falsehoods and rumors!
- Recognize that you cannot manage that which you cannot Measure. 2 steps / 1 step or ???
- □ Competitively Bid − 10 Respondents





Overview of a Brownfield Inventory



What?

- Outcome of MDC Res. 09-E01 02/04/2009
- Totally Grant funded Brownfield Inventory Project (EPA and HUD CDBG) available to public on WEB
- Examination of 353,000 Parcels in Marion County
- Examine all previous data
 - 2004 Center Township SPEA Capstone
 - 2007 Phase I ESA Area Survey
 - Irvington DC & NNDC Inventories
- Generate NEW DATA

EPA Brownfields Grantee Reporting Requirements

Section 128(a) of Small Business
Liability Relief and Brownfields
Revitalization Act: State and
Tribal grant recipients are
required to take reasonable steps
to develop and/or maintain a
system or process that can
provided an reasonable estimate
of brownfield sites

EPA 510-R-09-002





Overview



Why?

Goal: Empirical data to support and guide efforts including:

- Identifying sites that are "Redevelopment Ready"
 - Assisting with marketing of sites and removing stigma
- Prioritizing sites for grant funding purposes/identifying conditions that avail each site to particular funding mechanisms
- Presenting the case to EPA and IFA Brownfields Program
 - Meeting EPA requirements
- Tracking progress
 - Success Measurement
 - Rate of new challenges developing
- Increasing awareness and public information/education
- Promoting infill redevelopment/achieving sustainability goals and efforts of SustainIndv





Overview



Hows

Others: some good

- Pennsylvania also grants up to \$50,000 to cities and development authorities that carryout brownfields inventories and list these properties in the states PaSiteFinder, a web-based brownfield inventory system. Localities and development authorities receive a \$1,000 credit for each site listed (Bartsch et al., 2001; DEP, 2000)
- Elkhart County, INDIANA (inspiration with Ground Water Management)
- MOST: IGNORE the Issue, or don't take comprehensive approach, leaving development ready sites languishing because lack of data





Overview



Hows

We: Recognize that

DATA is king.

- ■DATA is good.
- DATA develops
 - Ideas / Plans
 - Which identify threats to GW resources
 - Which develop Properties
 - Which benefit neighborhoods
 - Which develops Tax Base & City









- Marion County Site Inventory
 - Desktop Study
 - USPS Database Integration
 - Community Development Corporation Input
 - Windshield Survey
 - Site Status Evaluation
- 1960 City Directory Mapping Pilot Project
- Historical Sanborn Fire Insurance Mapping
- Web-Based GIS Application Development
- Document Management System



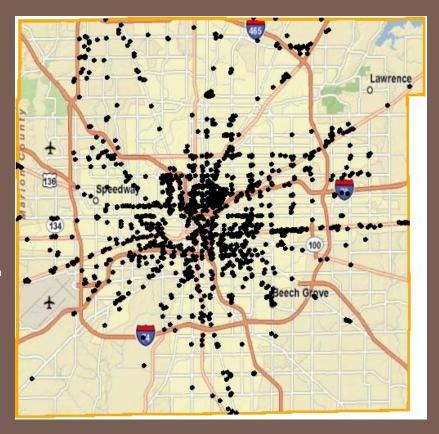




Site Inventory-Desktop Study

Created GIS-based inventory of 1,682 sites using 16 different data sources

- 1. Brownfield Inventory 07/01/2007
- 2. IDEM Brownfields
- 3. FRS database EPA ACRES sites
- 4. Brownfield Inventory-IUPUI Graduate Study-1995
- 5. Gas Station Inventory 1998
- 6. Brownfield Evaluation Neighborhood Corridor 2004
- 7. Martindale-Brightwood Phase I ESA Area Survey 2006
- 8. Mobile Hard Drive County Owned Sites and Hard Drive Private Owned Sites
- 9. United States Postal Service Vacant Property Address List in FRS Database
- 10. United States Postal Service Vacant Property Address List with Commercial/Industrial Zoning
- 11. Near North Development Corp Area Wide Environmental Survey 2008
- 12. Irvington Development Organization Phase I ESA Area Wide Survey 2007
- 13. CDC Area Input
- 14. Field data from three field crews that visited sites and collected additional information and sites.
- 15. Indy Brownfields input
- 16. State of Indiana Brownfields Program Database (ULCERS)



Marion County, In Site Inventory





Site Inventory-Community Development Corporation Input



Provided opportunity for input from Community Development

Corporations



Site Address	PARCEL_I	TOWNSHIP	ZIPCODE	Data Source(s)	CDC AREA
1321 25TH ST	1045916	CENTER	46205	Martindale-Brightwood Phase I ESA Area Survey, 2006	MARTINDALE - BRIGHTWOOD COMMUNITY DEVELOPMENT CORPORATION
1165 30TH ST	1011688	CENTER	46205	Indy Brownfields Inventory 2007	MARTINDALE - BRIGHTWOOD COMMUNITY DEVELOPMENT CORPORATION
3665 30TH ST	1083689	CENTER	46218	Indy Brownfields Inventory 2007	MARTINDALE - BRIGHTWOOD COMMUNITY DEVELOPMENT CORPORATION
2005 30TH ST	1088174	CENTER	46218	USPSVB not in FRS with Zoning	MARTINDALE - BRIGHTWOOD COMMUNITY DEVELOPMENT CORPORATION
3609 30TH ST	1028018	CENTER	46218	USPSVB not in FRS with Zoning	MARTINDALE - BRIGHTWOOD COMMUNITY DEVELOPMENT CORPORATION
2040 ALVORD ST	1055028	CENTER	46202	Indy Brownfields Inventory 2007	MARTINDALE - BRIGHTWOOD COMMUNITY DEVELOPMENT CORPORATION
1720 ALVORD ST	1011436	CENTER	46202	EPA FRS Database; BI_95; MBPI_06	MARTINDALE - BRIGHTWOOD COMMUNITY DEVELOPMENT CORPORATION
1902 ALVORD ST	1014271	CENTER	46202	EPA FRS Database; MBPI_06	MARTINDALE - BRIGHTWOOD COMMUNITY DEVELOPMENT CORPORATION
2002 ALVORD ST	1063037	CENTER	46202	EPA FRS Database; MBPI_06	MARTINDALE - BRIGHTWOOD COMMUNITY DEVELOPMENT CORPORATION
2017 ALVORD ST	1066594	CENTER	46202	Brownfields Inventory 1995	MARTINDALE - BRIGHTWOOD COMMUNITY DEVELOPMENT CORPORATION
2232 ALVORD ST	1039668	CENTER	46205	Martindale-Brightwood Phase I ESA Area Survey, 2006	MARTINDALE - BRIGHTWOOD COMMUNITY DEVELOPMENT CORPORATION
1720 ALVORD ST	1090153	CENTER	46202	Martindale-Brightwood Phase I ESA Area Survey, 2006; HDCO/PO	MARTINDALE - BRIGHTWOOD COMMUNITY DEVELOPMENT CORPORATION

Martindale-Brightwood CDC Site Inventory Report





Site Inventory-Windshield Survey

Performed 647 windshield surveys of suspected Brownfield sites

Documented Site Status

Date Inspected	3/19/2009
Facility Type	Manufacturing Plant
Vacancy	VACANT
Light in Building	NO
Employees or Visitors	NO
Parking Lot	YES-NO CARS
For Sale Sign	NO
Broken Windows	YES
Boarded Windows	YES
Overgrown Vegetation	YES
Structural Damage	NO
Fire Damage	NO
GW Monitoring	UNKNOWN
Chemical Hazard Signs	NO
AST	NO
UST	UNKNOWN
Drums	NO
Field Notes	Large building and storage area with abandoned equipment











Site Inventory-Site Status Evaluation

Evaluated Site Inventory for Brownfield Status

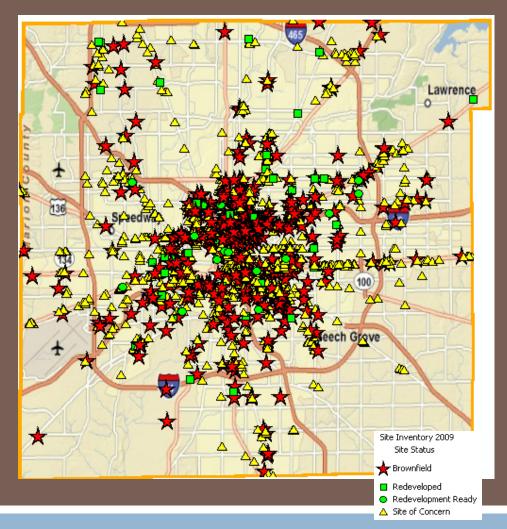
<u>Summary</u>

Brownfield: 519

Redeveloped: 49

Redevelopment Ready: 16

Site of Concern: 1098









HOLANA POLIS

Joined Inventory with other data resources

- Parcel and Address Info
- Unique Identifier
- Site Status
- Data Source
- •Links to EPA or IDEM Websites
- Zoning
- •CDC Area
- •X,Y Coordinates
- •Field Inspection Information
- Link to Digital Photo
- Street View Link
- •EPA Funding Class
- Site Name
- Census Tract
- Census Block Group











1960 City Directory Pilot Project

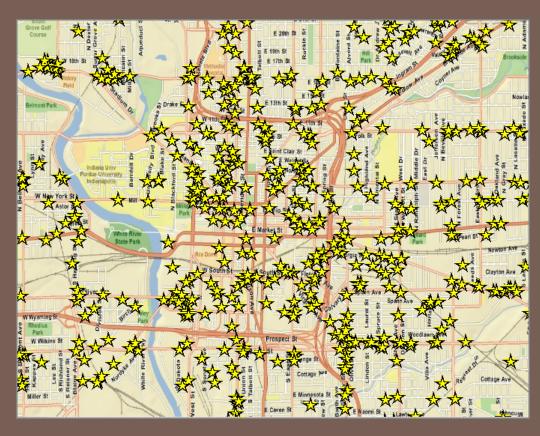
Performed Data Gap Analysis using 1960 City Directory listings to evaluate potential sites not identified in existing databases using business with a high likelihood of historic Hazardous Substance or Petroleum use

Summary

Total businesses mapped: 1,105

Businesses found in existing site inventory:178

Therefore an additional 927 sites could be at minimum defined as a "Site of Concern"







Historical Sanborn Fire Insurance Mapping

IMAGIS Geo-referenced the 1956 Sanborn Maps for use in GIS System

Summary

Rectified
595 Map Sheets
5 Key Maps

\$16,000 Value-Addec



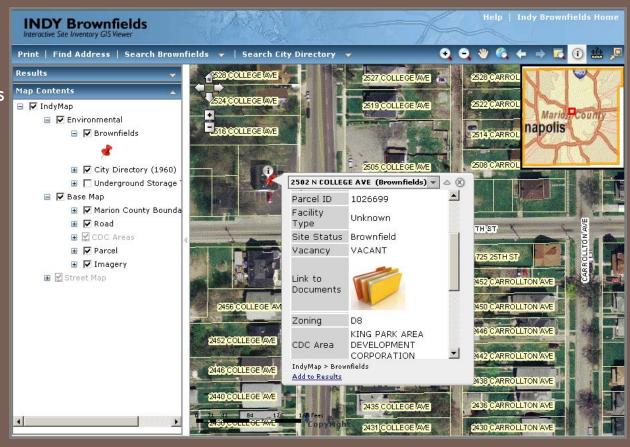




Web-Based GIS Application Development

A Public available Web-Based GIS Application is currently being developed.

Implementation is expected to occur in late August.









Document Management System

Goals:

- 1. Scan, Index, and link related hard copy records to features in the site inventory
- 2. Select appropriate software to manage digital records
- 3. Make available to public via the web-based GIS application







MB Care Grant/MBEJC & IKE Area

City of Indianapolis

Site Inventory Street View

by Google

Investigation







East 16th Street (Meridian Street to Sheldon Street) Corridor









East 16th Street (Meridian Street to Sheldon Street) Corridor









Proposed Next Steps-Additional Funding



Required (Funds from 2009 HUD CDBG Grant Budget)

- City Directory
 - Create comprehensive database of Historical City Directory based facilities (1920-2000) (10 year increments)
 - Update Site Inventory with City Directory Listings
 - Additional Windshield Surveys (confirmation of all listed as "brownfields")
- Update Sanborn Collection
 - Geo-reference color Sanborn Maps to be provided by IUPUI University Library
 - **1887**
 - **1898**
 - **1915**
- Data Management System
 - Scanning, Indexing
 - Software Selection
 - Implementation



