BROWNFIELD REDEVELOPMENT PROGRAM

RESTORING WATER QUALITY THROUGH BROWNFIELD REDEVELOPMENT

Roman Wilson, Brownfield Coordinator November 21, 2016 Brownfield
Redevelopment
Unit
Department of
Environmental
Quality



What is a brownfield?



Property that is known to be contaminated



Or suspected to be contaminated based on prior use



A brownfield can also be...



- Blighted
- Functionally Obsolete
- Adjacent or contiguous to eligible property
- Land Bank-owned
- Historic
- In a Core Community

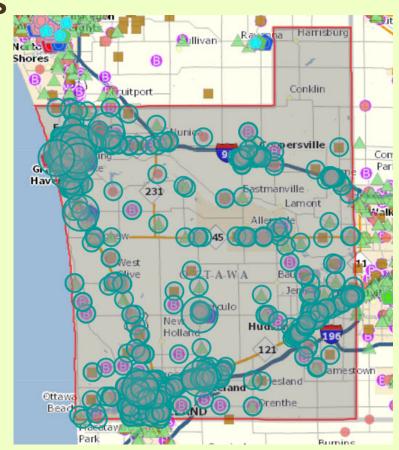


Beechtree Leasing Redevelopment Grand Haven, Ottawa County

Brownfields in Ottawa County?



- 212 Closed storage tank sites
- 101 Open leaking UST sites
- 105 Part 201 sites
- <u>582</u> Baseline Environmental Assessments (BEAs)
- 17 Brownfield projects that have utilized DEQ incentives (2000 to present) – 14 of which were located in NW Ottawa County



Brownfield redevelopment purpose and benefits



- When feasible, reuse existing structures and infrastructure
- Remove blight and functional obsolescence
- Improved environmental conditions
- Create new tax revenue and jobs
- Discourages urban sprawl





How brownfields impact water quality?



- Recognized environmental conditions (leaking tanks, improper chemical storage/disposal practices, cracks in the floor (or no pavement/floor), floor drains discharging to the ground, etc.)
- Source soil contamination leaches to groundwater (threat to drinking water and irrigation wells)
- Contaminated groundwater migrating to a surface water feature





Types of brownfield contaminants



- Petroleum compounds (gas stations, auto repair facilities)
- Metals (foundries, machine shops, urban fill, lead paint)
- Chlorinated solvents (dry cleaners, industrial business, commercial degreasing compounds)
- Asbestos
- Polychlorinated biphenyls

Local brownfield water quality improvement measures



- Remove underground storage tanks
- Install new underground storage tanks
- Construct slurry walls
- Groundwater treatment and disposal
- Soil excavation and disposal
- Institutional controls









DEQ brownfield tools to incentivize redevelopment



- Brownfield Redevelopment Grants and Loans
- Tax Increment Financing (TIF)
- Refined Petroleum Fund
- Superfund Site Assessment
- Coastal Zone Management Grant



Local brownfield redevelopment DEQ TIF project



ANEW Fueling Station – Borculo, Ottawa County, Michigan

- A former service station that operated from the mid 1970s until 2002
- Ten underground storage tanks (USTs) removed
- Soil and groundwater contamination from former leaking USTs
- 5,625 tons of contaminated soil (source material) removed and 28,000,000 gallons of groundwater treated





Local brownfield redevelopment DEQ grant project



Lemon Creek Winery – Grand Haven, Ottawa County, Michigan

- A former service station that operated from the late 1950s to the early 2000s
- Four USTs removed with soil and groundwater contamination discovered
- 1,200 tons of contaminated soil (source material) removed and 6,000 gallons of groundwater treated





Local brownfield redevelopment TIF project



Beechtree Party Store - Grand Haven, Ottawa County, Michigan

- Former service station operations (1930s to early 2000s)
- Four USTs removed with soil and groundwater contamination discovered
- 515 tons of petroleum contaminated soil (source material) removed





Questions? Ask us!



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