



MICHIGAN DEPARTMENT OF
ENVIRONMENT, GREAT LAKES, AND ENERGY

CONTAMINATED SITES

MARCH 1, 2022



10 Million Residents
and
62 Million Acres





How Many Contaminated Sites Are There?

Estimated 24,000+

Petroleum Releases (Part 213)

- Approximately 8,000

Non-Petroleum/All Other (Part 201)

- Approximately 16,000

Superfund (EPA Managed/High Risk)

- 64

Response Types

Responsible
Parties

State
Responses

Due Care
Responses

Where Can The Public Find More Information On Sites?

Inventory of Facilities: www.egle.state.mi.us/RIDE/home



Environmental Mapper: www.mcgi.state.mi.us/environmental_mapper/



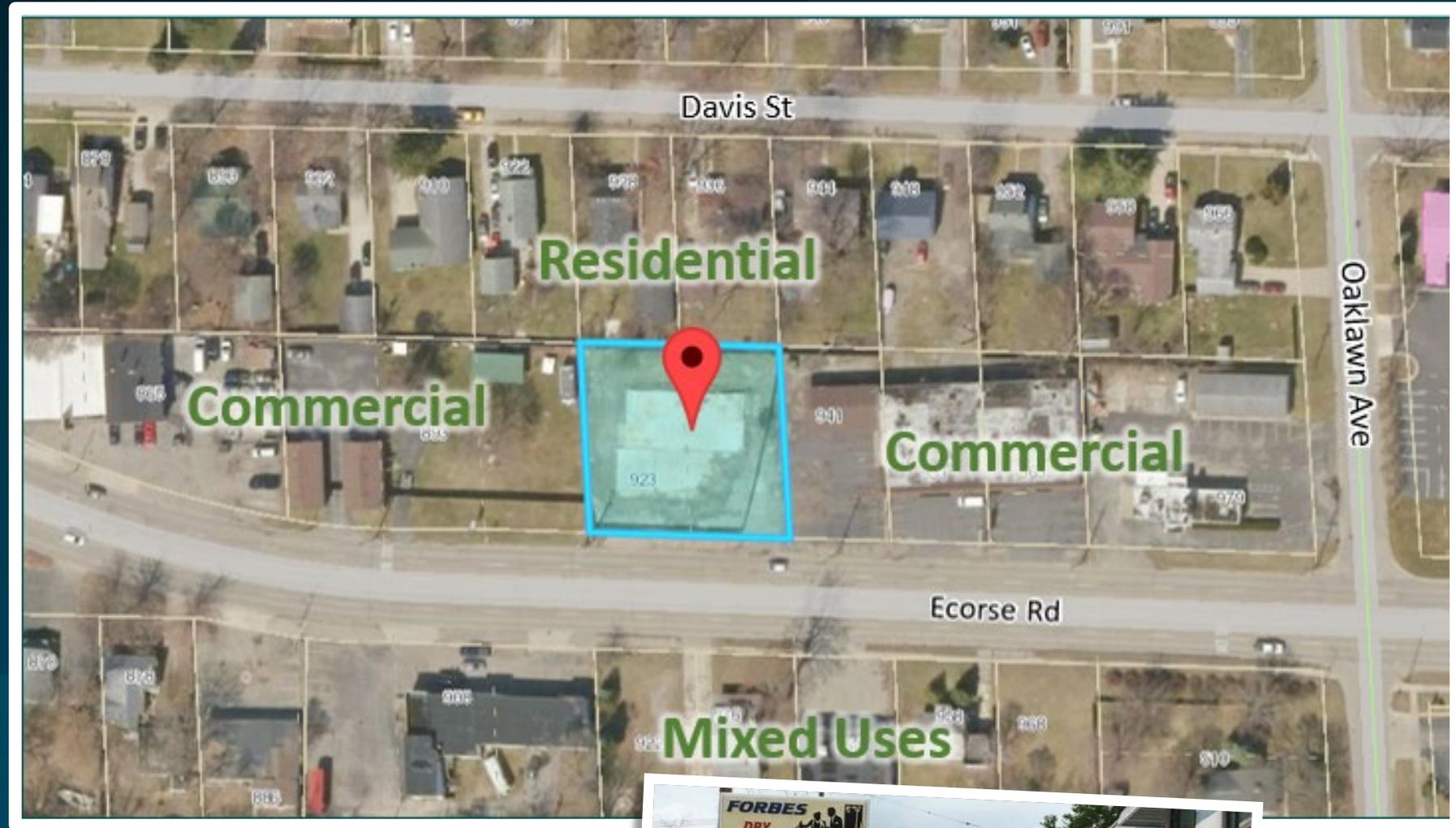
Remediation and Redevelopment Division:
www.michigan.gov/egle/0,9429,7-135-3306_28608---,00.html



Boilerplate Section 235 Report:
www.michigan.gov/documents/egle/report-2022-02-25-Active-Cleanup-Project-Funding_748943_7.pdf

Example
of Process

Former Forbes
Dry Cleaners

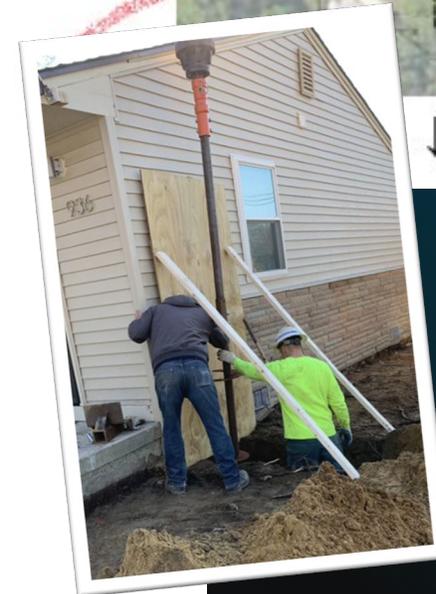
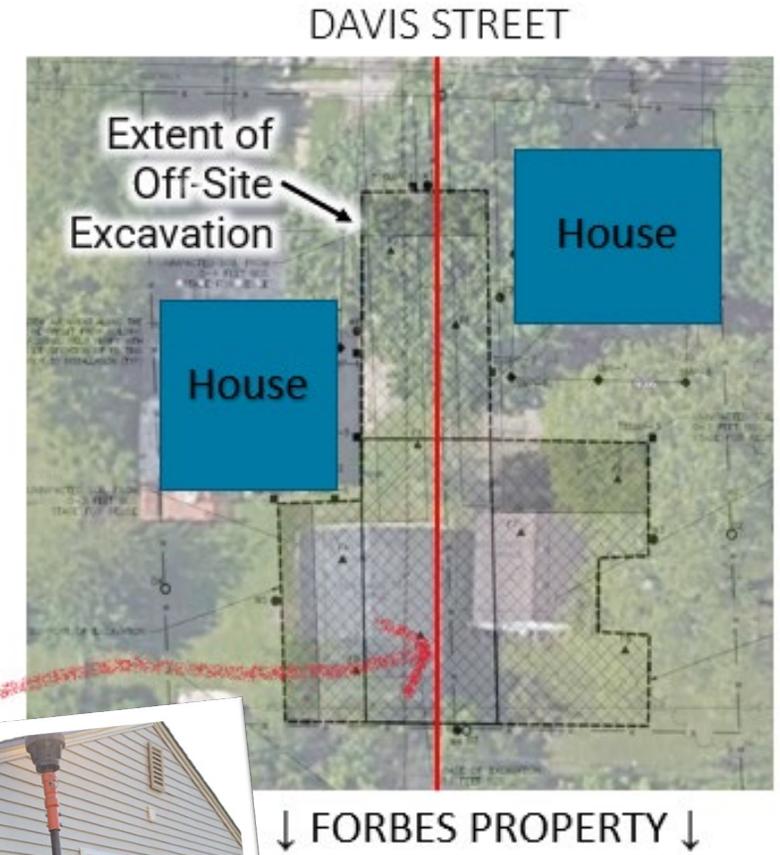


923 Ecorse Rd, Ypsilanti Township, Washtenaw County

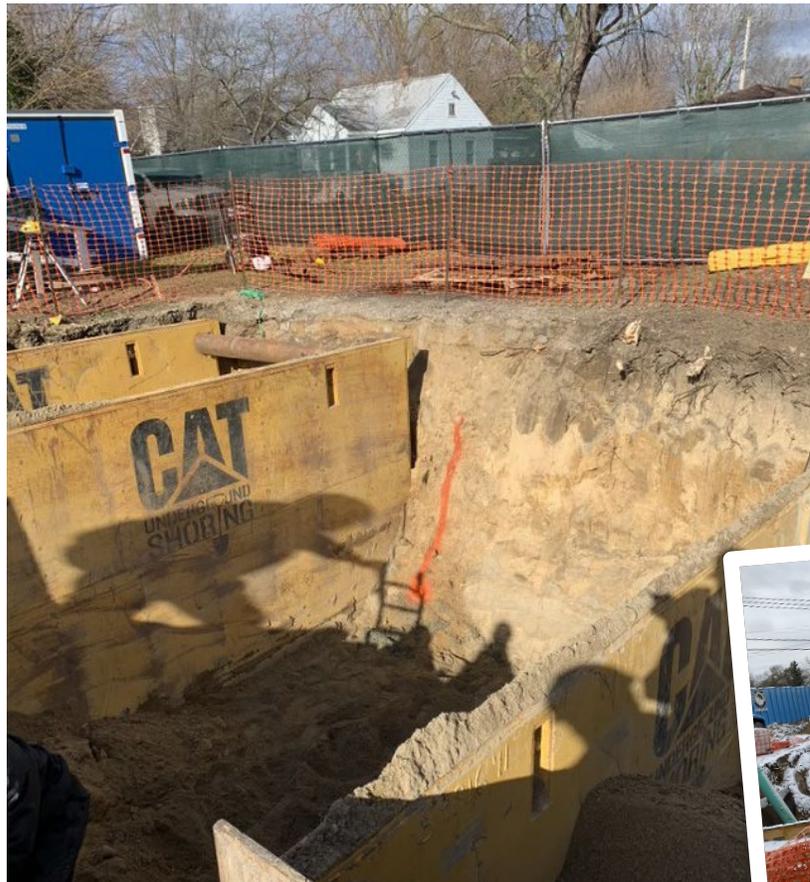


EGLE's Initial Response

- Soil and groundwater sampling (2018)
- Building demolition and discovery of damaged sewer pipe (2019)
- Vapor sampling and installation of mitigation systems (2019-2020)
- Decision made to remove contaminated soil on the residential properties



Excavation at Residential Properties



Winter 2020
4,134 tons of contaminated soil removed

January 2021
Garages and driveways rebuilt

Spring 2021
Landscaping & fencing installed



Removal of Source Contamination

- Removal of 10,800 tons of contaminated soil
- (2,200 tons classified as Hazardous Waste)
- December 2021 to February 2022 (Ongoing)

Mixing absorbent material into backfill to treat groundwater

How Are Sites Prioritized?

Based on level of risk to public health and the environment

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graph TD; A[Based on level of risk to public health and the environment] --> B[Risks Present]; B --> C[Risks Controlled];
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Risks Present

- Immediate action needed
- Action needed in the short-term (2 years)
- Action needed in long-term

Risks Controlled

- Controlled in interim
- Controlled long-term
- Unknown

Contaminated Site Funding Steps



Authorize Expenditures

Management officially authorizes, staff encumber funds and conduct work

Funding Considerations

Management weighs district explanations with other funding considerations: Risk conditions, Superfund match, operation and maintenance, funding sources, significant public interest, new sites with unknown risks

Action Plans

Project managers meet with division management to discuss site details and proposed work

Project Managers

Annually review sites, prioritize based on risk, and propose for funding

Unexpected Situations

- ❖ Emergencies
- ❖ Emerging Sites / Site Conditions
- ❖ New sites that require immediate attention

Active Remediation and Redevelopment Projects by Program and Fund Source
Reporting per 2021 PA 87, Section 235

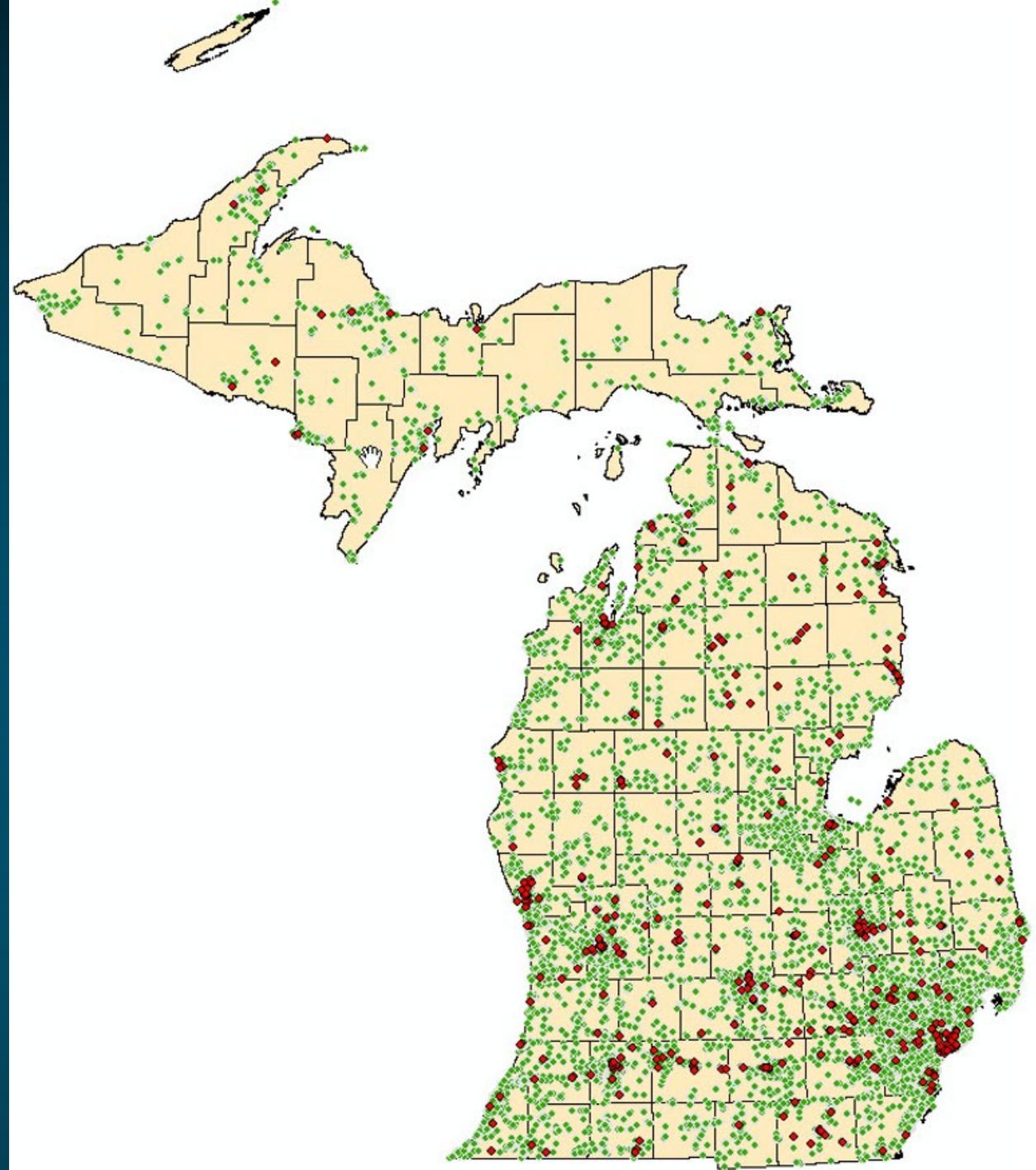
**See accompanying list of Site Response Actions acronyms*

| Program | Funding Source | County | Location Name | Site Response Actions* | Contractor on Site? Y/N | Expected Closure Date | FY 2021 Expenditures | FY 2022 Allocations |
|---------|----------------|---------|----------------------------------|------------------------|-------------------------|-----------------------|----------------------|---------------------|
| 213 | RPF | Alcona | FACILITY #0-035675 | PC | Y | 9/30/2022 | \$2,389.52 | \$60,173.97 |
| 213 BRG | RPF | Alcona | Harrisville Sport Center | BEA, Due Care, RA | Y | 3/5/2023 | \$11,662.50 | \$51,714.07 |
| 201 BRG | RMF | Alcona | Harrisville Sports Center | Due Care, RA | Y | 3/5/2023 | \$20,448.33 | \$22,148.05 |
| 201 | Emergency | Alger | BENSON ROAD HEATING OIL SPILL | M | N | 9/30/2022 | \$200.00 | \$0.00 |
| 213 | RPF | Alger | Midway General Store | M | N | 12/31/2021 | \$8,288.00 | \$0.00 |
| 213 BRG | RPF | Alger | Munising Dpw Garage 34475 | Due Care, RI | Y | 3/12/2023 | \$36,842.50 | \$118,157.50 |
| 201 | Emergency | Allegan | 2063 Covault Ln at Kalamazoo | M | N | 9/30/2022 | \$885.05 | \$0.00 |
| 201 | Emergency | Allegan | Allegan Metal Finishing | M | N | 9/30/2022 | \$1,864.56 | \$0.00 |
| 201 | RMF | Allegan | Chase Mfg Co Vig Of Douglas | RI | N | 12/31/2022 | \$679.76 | \$125,000.00 |
| 201 BRG | CMI | Allegan | Chase Mfg Co Vig Of Douglas | RI | Y | 4/14/2021 | \$22,561.06 | \$0.00 |
| 201 | SWQIF | Allegan | Chase Mfg Co Vig Of Douglas | RI | Y | 12/31/2022 | \$26,163.83 | \$191,428.89 |
| 201 | RMF | Allegan | Deyoung Landfill | PC | N | 1/1/2022 | \$6,345.00 | \$0.00 |
| 201 | PFAS | Allegan | Deyoung Landfill | PC | Y | 1/1/2022 | \$20,729.52 | \$29,270.48 |
| 213 | RPF | Allegan | GEIB OIL CO. 0-015972 | RI | N | 11/1/2022 | \$11,353.42 | \$64,077.91 |
| 201 | Emergency | Allegan | Gun Plain Township | M | N | 9/30/2022 | \$762.00 | \$0.00 |
| 201 | CMI | Allegan | Lincoln Avenue 781 | C | N | 7/31/2021 | \$5,750.00 | \$0.00 |
| 201 | Emergency | Allegan | Menasha Corp Landfill | M | N | 9/30/2022 | \$1,084.00 | \$0.00 |
| 201 | RMF | Allegan | Otsego Area Study | RI | Y | 12/31/2023 | \$44.00 | \$264,303.60 |
| 201 | CMI | Allegan | Otsego Area Study | RI | N | 12/31/2023 | \$26.00 | \$0.00 |
| 201 | PFAS | Allegan | Otsego Area Study | RI | Y | 12/31/2023 | \$71,533.99 | \$60,093.88 |
| 201 | Emergency | Allegan | Otsego Area Study | M | N | 12/31/2023 | \$185.00 | \$0.00 |
| 201 BRL | CMI | Allegan | Plainwell Paper Mill | Demo | Y | 9/2/2022 | \$559,236.00 | \$0.00 |
| 201 | Emergency | Allegan | Pullman Rd 109Th Ave | M | N | 9/30/2022 | \$100.00 | \$0.00 |
| 201 | Emergency | Allegan | Res Wells Lincoln Rd | M | N | 9/30/2022 | \$200.00 | \$0.00 |
| 201 | Emergency | Allegan | Sunrise Lf | M | N | 9/30/2022 | \$100.00 | \$0.00 |
| 201 | RMF | Allegan | Wayland Recycling Inc | IR | N | 3/31/2026 | \$8,860.00 | \$0.00 |
| 201 | SWQIF | Allegan | Wayland Recycling Inc | IR | Y | 3/31/2026 | \$171,194.48 | \$565,640.73 |
| 213 | RPF | Alpena | #0-012533 TRANSPORTATION GARAGE | RI | Y | 6/30/2023 | \$128,535.66 | \$94,375.95 |
| 201 | RMF | Alpena | Alpena Airfield Area PFAs | RI | N | 12/31/2023 | \$1,477.00 | \$44,223.00 |
| 201 | PFAS | Alpena | Alpena Airfield Area PFAs | RI | Y | 12/31/2023 | \$57,963.22 | \$219,038.82 |
| 201 | RMF | Alpena | Alpena Hide Leather Company | RA | Y | 9/30/2022 | \$5,632.00 | \$744,367.40 |
| 201 | PFAS | Alpena | Alpena Hide Leather Company | RA | Y | 9/30/2022 | \$0.00 | \$749,994.65 |
| 201 | SWQIF | Alpena | Alpena Hide Leather Company | RA | Y | 9/30/2022 | \$293,401.05 | \$464,260.27 |
| 213 | RPF | Alpena | FACILITY #0-004055 | RI | Y | 3/31/2023 | \$19,721.50 | \$454,412.71 |
| 213 | RPF | Alpena | Facility 0008864 | PC | Y | 9/30/2021 | \$86,505.42 | \$32,616.26 |
| 201 | RMF | Alpena | Frmr Werth Dry Cleaners Property | RA | Y | 10/1/2024 | \$8,059.44 | \$191,940.56 |
| 201 | CMI | Alpena | Frmr Werth Dry Cleaners Property | RA | N | 10/1/2024 | \$8,610.00 | \$0.00 |
| 201 | SWQIF | Alpena | Frmr Werth Dry Cleaners Property | RA | Y | 10/1/2024 | \$2,990.00 | \$3,233.35 |

PRIORITY

Part 235 Boilerplate Report

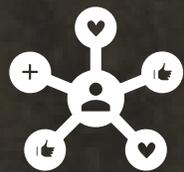
What Happens
When New Sites
Not On The List
Need To Be
Addressed?



How Much Is Allocated For Sites In 2022?



\$163 Million

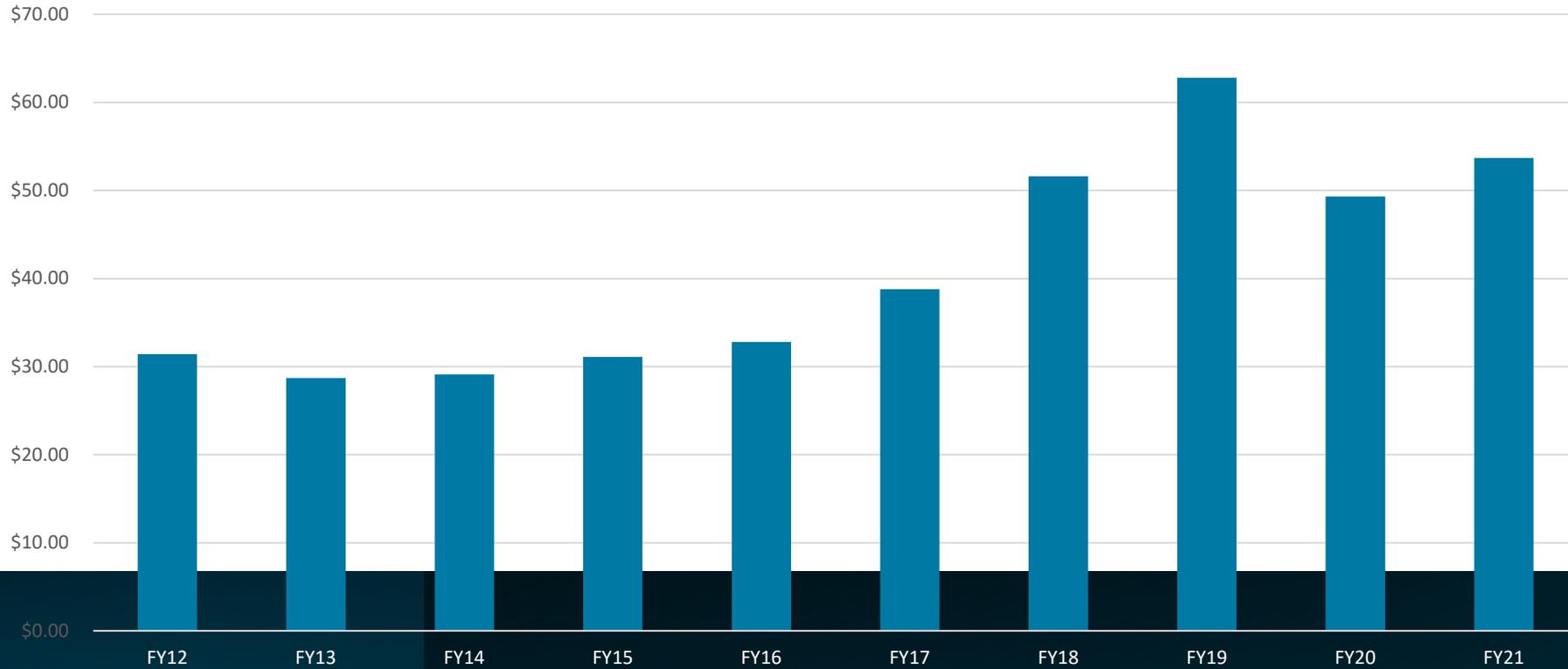


472 Sites



2% Of All Sites

Historical Spending



| FY12 | FY13 | FY14 | FY15 | FY16 | FY17 | FY18 | FY19 | FY20 | FY21 |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| \$31.4 M | \$28.7 M | \$29.1 M | \$31.1 M | \$32.8 M | \$38.8 M | \$51.6 M | \$62.8 M | \$49.3 M | \$53.7 M |

Michigan Underground Storage Tank Fund



- Over 3,500 facilities use MUSTA for Financial Assurance
- MUSTA reimburses owners/operators' cleanup costs for environmental releases
- Financed 128 closures to date since 2016

Liability Determination For Contaminated Sites

ID SITE

- Identify site of environmental contamination

WHO

- Identify owners/operators who are responsible for an activity causing a release or did not submit a baseline environmental assessment (BEA)

EVIDENCE

- Collect evidence supporting liability

PROOFS

- Discuss liability proofs with Department of Attorney General (DAG) counsel

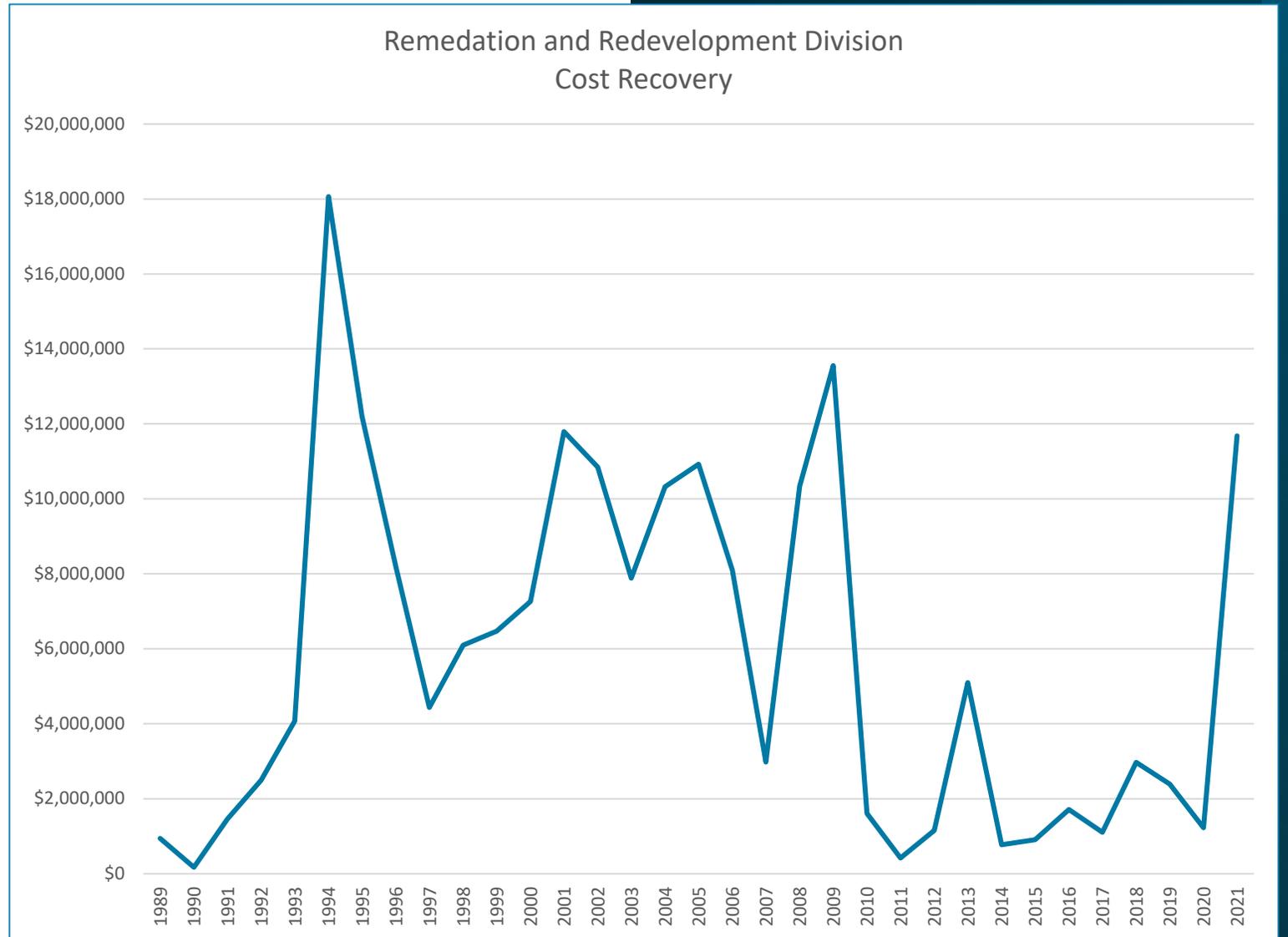
SEND

- Send notices to the party informing of liability and legal obligations

ESCALATE

- In consultation with the DAG, escalate enforcement when parties fail to comply

EGLE Pursues Cost Recovery from Liable Parties



Budget Allows for Quicker Action

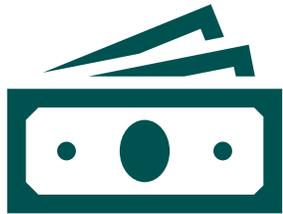
Proposed Boilerplate
Section 315:
Court Ordered
Settlements

Allows for quicker
response to
contaminated sites

Appropriates funds equal
to court orders



2023 Budget Proposal



\$30 million Cleanup and
Redevelopment increase



\$19.1 million Michigan
Underground Storage Tank
increase



\$20 million Emergency Fund



Future Outcomes

- Continue efforts at contaminated sites on priority list
- Evaluate more sites where level of risk is unknown
- Support over 400 claims through MUSTA
- Address new issues as they arise



Thank You