CONTAMINATION & BRIDGE PAINTING

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WHY REQUIRED

- To meet the intent of the National Environmental Policy Act (NEPA)
 - Avoidance, minimization or mitigation of an adverse impact
- Natural Resources and Environmental Protection Act (NREPA)
 - Prevent exacerbation of existing contamination
 - Exercise "due care" to protect human health and safety



NREPA-NATURAL RESOURCES AND ENVIRONMENTAL PROTECTION ACT

- Part 111: Hazardous Waste
- Part 115: Solid Waste Management
- Part 201: Environmental remediation
- Part 213: Leaking Underground storage tanks (LUST)





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ENVIRONMENTAL REVIEW



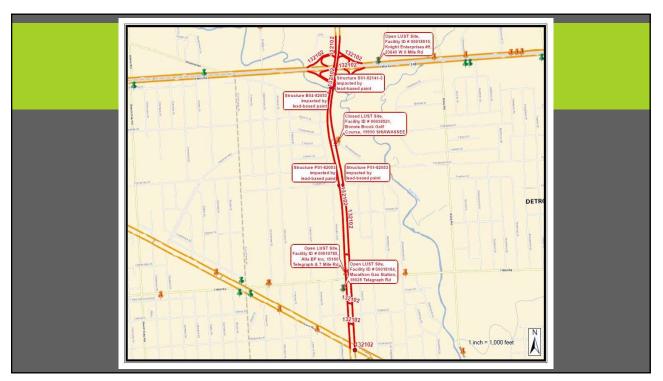
- Desktop GIS review
- Project Area Contamination Survey
 PACS or Phase I
- Preliminary Site Investigation
 - PSI or Phase II

DESKTOP REVIEW

- All projects sent for NEPA review are reviewed for contamination
- Environmental Contamination Specialist conducted
- ArcGIS utilized to identify sites within or close to project limits
- Individual maps placed into ProjectWise and linked to ECO
- For design staff to help determine likelihood of encountering contamination within project limits and help with determining cost estimates



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PACS

CALL OFFICE MEMORANDUM

- DATE: March 15, 2019 DO: Son Reinke Environmental Clearance Coordinater/Contamination Specialist Environmental Service Section Bureau of Higherry Development
- Environmental Services Section Bureau of Highway Development UBJECT: IN 603E Niefsik Sonthern Railrond property Approximately lines #10 feet of railway between Justicon and Mechanic St

Project Ares Communities Survey to project trans referenced above was researched on March 15, 2019 to determine if harows or potential size of environmental communities scale that may affect the project's design, cost, exdendeds. There are use (6) known using or environmental communities in selficid within and affected to the project zero. Three of the size have been identified as Part 131. Lealings (hardproved Strugger Tasho size). The remaining data with a have been identified as Part 131.

erein. scommendations for contaminated sites located within the project area are based on a seriew: lichigan Department of Environmental Quality files, databases, and site investigations. To coveral contamined sites living halow have base creds a follower

- Low Risk. Can be noted on plan sheets and may need pay items to cover unitgation. Medium Risk. May require additional review and/or testing to determine impact. High Risk. Size will impact project, testing its recommended to answer impact.
- spending on the final plans for the work in the MDOT right-of-way in the project area, distant lesting may need to be considered for sites of medium risk or higher to provide more formation to:
- Identify sizes that may impact excavation activities wohin the project.
 Determine if contamination exists, the concentration of any contaminates in the soil and/or groundwater, and, provide pucific data that can be used in design and mitigation.
 Estimate of contaminated toil quantities for non-hazardous pay items, and volumes of

Conducted by Region Resource Specialist

- Provides specific data to be used in design and mitigation
- Assists in estimating contamination soil quantities (usually provides an amount)
- Determines whether further investigation/testing is warranted
- Once conducted PACS report is sent to Contamination Specialist for mitigation to be put into NEPA document, Project Manager and its places into PW for design reference

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PSI



- Conducted when its know that contaminated material will be found.
- Involves the collection and chemical analysis of soil and groundwater samples
- Identifies specific chemicals
- Addresses potential worker safety concerns
- Provides contamination soil quantities and volumes of contaminated groundwater which will require treatment and disposal
- Can be conducted in house with as needed contract through Steve Adams for smaller projects
- Or will be part of contract for project.

BRIDGE PAINTING

- GIS desktop review for bridges impacted by lead based paint
- Requirements for structural coatings come from MDOT Standard Specifications for Construction
- Past fines and consent orders between MDOT and MDEQ and MDNR



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REQUIREMENTS

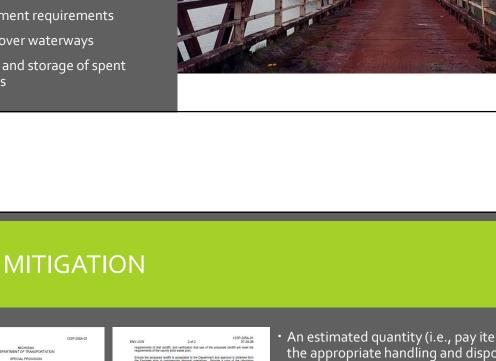


- Requirements 715.03.A-C of the 2012 Standard Specifications for Construction specifically deal with coating cleaning and coating of existing structural steel and include:
 - Total Enclosures
 - Protect blasting of vehicles, water vessels and pedestrians
 - Prevent release of spent materials
 - Maintain negative pressure
 - Use dust collectors

- Hazardous waste contingency plan
- Labeling of spent material containers
- Weekly inspection log
- On site records
- Storage requirements
- Disposal
- Containment requirements
- Bridges over waterways
- Cleanup and storage of spent materials

4. Disposal of Non-bazandous Contaminated Material. Dispose of non-bazandous contaminated material at a licensed Type II sanitary smoth. Submit at the preconstruction meeting the name of the Type II landfill to be used for disposal, the sampling and analysis

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taterial test hazardous, payment for disposal of <u>hazardous material</u> as extra work. Disposal includes hauting by a toensed hazardous

- An estimated quantity (i.e., pay item) for the appropriate handling and disposal of non-hazardous contaminated media can be included in the project plans.
 - Special provision 12SP-205A-02 outline Non-Hazardous Contaminated Material Handling and Disposal

