

### GM CET BEDFORD FACILITY BEDFORD, INDIANA

GM CET BEDFORD FACILITY, BEDFORD, INDIANA

### Public Information Session June 29, 2016



- Facility located on 152.5 acres and is approximately 1,000,000 square feet of manufacturing footprint
- Approximately 450 employees



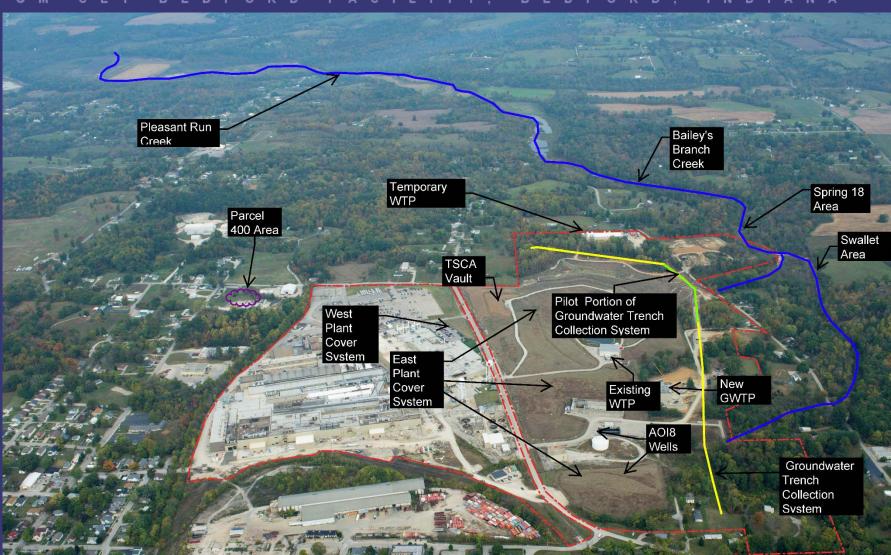
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- Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Removal Action (RA)
  - Bailey's Branch and Pleasant Run PCB cleanup of creek sediments and floodplain soil
  - RA Elements:
    - Control of impacted springs and seeps along creek
    - Removal of floodplain soil to 1.8 ppm and sediment to 1 ppm in the creek (removal is complete)
  - Monitoring continues for large spring on Baileys Branch Creek
  - Creek and floodplain restoration completed in August 2014
- RCRA Corrective Action
  - GM LLC and USEPA entered into an AOC for those areas which GM LLC is responsible.



### GM BEDFORD REMEDIATION PROEJCT

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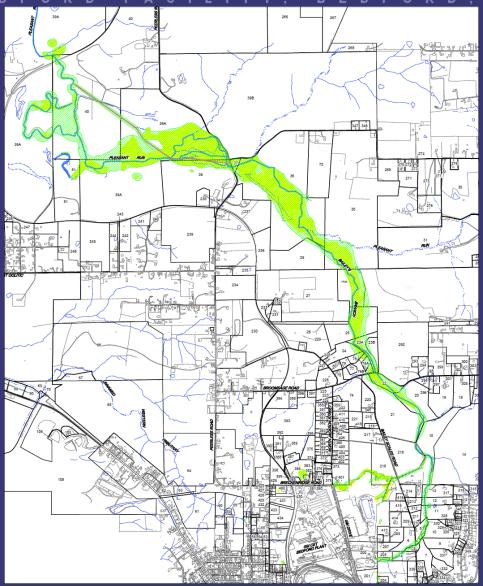




#### REMOVAL ACTION STATUS

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#### INSPECTION OF DOWNSTREAM PARCELS

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- Downstream monitoring and maintenance conducted in May and October 2015
- Restoration doing well
- Downstream monitoring is complete





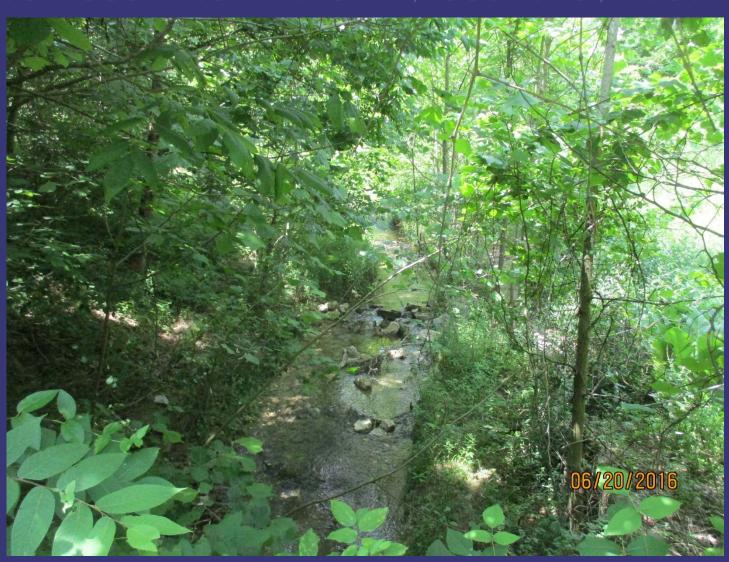




# CREEK REMEDIATION/RESTORATION STATUS WEST OF BAILEY SCALES ROAD

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### CREEK REMEDIATION/RESTORATION STATUS EAST OF BAILEY SCALES ROAD

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# CREEK REMEDIATION/RESTORATION STATUS PARCEL 22

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# CREEK REMEDIATION/RESTORATION STATUS PARCEL 76

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# CREEK REMEDIATION/RESTORATION STATUS PARCEL 36

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#### EAST/WEST PLANT MONITORING AND MAINTENANCE

G M C E T B E D F O R D F A C I L I T Y , B E D F O R D , I N D I A N A

- GM conducts quarterly inspections of the cover system which identified:
  - Large burrowing animals, likely groundhogs, needing to be trapped and relocated to an far off-site, wooded area.
  - Minor asphalt cracks (repairs planned beginning July 5 to be coordinated to minimize disruption to GM CET activities).
- Plant wildflowers.
- Install perimeter fence.







### VAULT OPERATION AND MAINTENANCE

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- Continue to monitor leak detection system and leachate collection systems
- Submit Vault Annual Report
- Re-direct vault waters to new GWTP for treatment





### SSC OPERATION AND MAINTENANCE

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- Continued to operate
   SSC system
- Conduct treatment system maintenance
- Re-direct groundwater to new GWTP for treatment





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#### EXISTING WATER TREATMENT PLANT

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- Continue to treat SSC water and storm pond water
- Discharge is treated under NPDES permit managed by GM CET
- Transition operations of the storm pond water treatment to GM CET
- Decommission SSC water treatment portion of the facility







#### GROUNDWATER TREATMENT PLANT

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- Constructed to treat groundwater from perimeter trench and vault waters
- Plant commissioning is underway
- Discharge is treated under NPDES permit managed by GM Remediation







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### **GWTP INPUTS**

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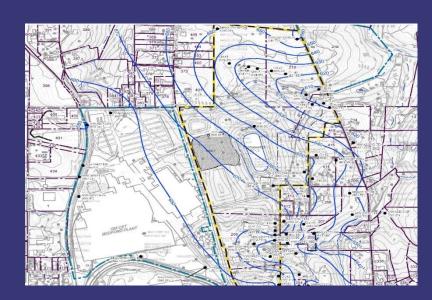
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#### EI CA750 MONITORING

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- Quarterly static groundwater level measurements collected
- EI CA750 sampling event conducted in May 2016 results memo to U.S.EPA being developed
- Groundwater elevations appear to show no significant changes under the Cover System
- EI CA750 or pilot trench monitoring program will continue until a long term groundwater monitoring plan is in place
- Re-assess frequency and/or scope of monitoring





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#### **AOI 8 SYSTEM DESIGN**

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- Wiring controls are being designed.
- GM Remediation will coordinate installation schedule with GM CET.

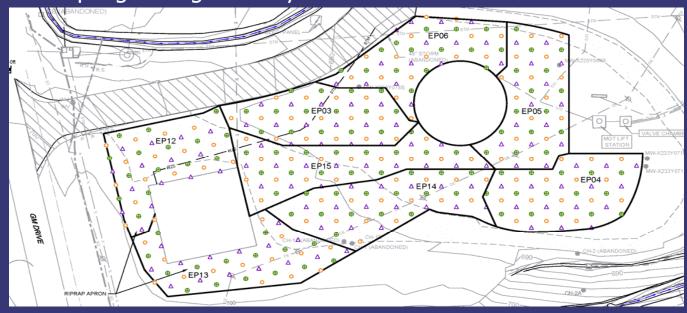




#### SURFACE SOIL SAMPLING

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- Surface soil sampling will conducted in select areas of the East Plant and West Plant Areas
- Sampling will target areas:
  - Not covered by East/West Plant Cover System
  - Not currently paved with hard surface maintained by Plant
  - Areas more prone to potential worker exposure
- Sampling to begin in July 2016

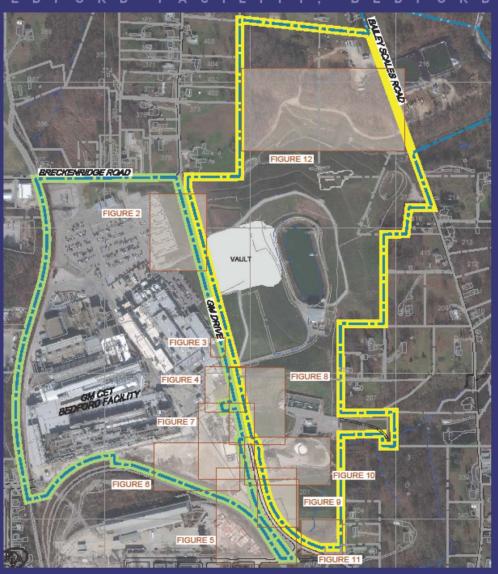




#### SURFACE SOIL SAMPLING

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#### SPRING 18 AND SWALLET MONITORING

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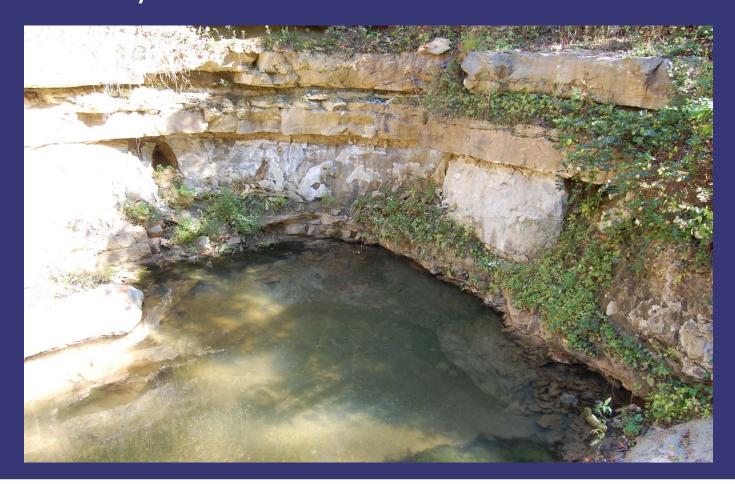




### SPRING 18 AND SWALLET MONITORING

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 Continue to collect monthly samples from Spring 18 and analyze for PCBs



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#### SPRING 18 AND SWALLET MONITORING

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- GM and U.S.EPA have negotiated a draft CERCLA AOC in order to conduct work in the creek – U.S.EPA drafting an Action Memorandum
- Potentially seal additional swallet found to be connected to Spring 18







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- Delineation of the impacted area has been completed.
- GM Remediation will work with property owners to implement the prescriptive excavation plan.



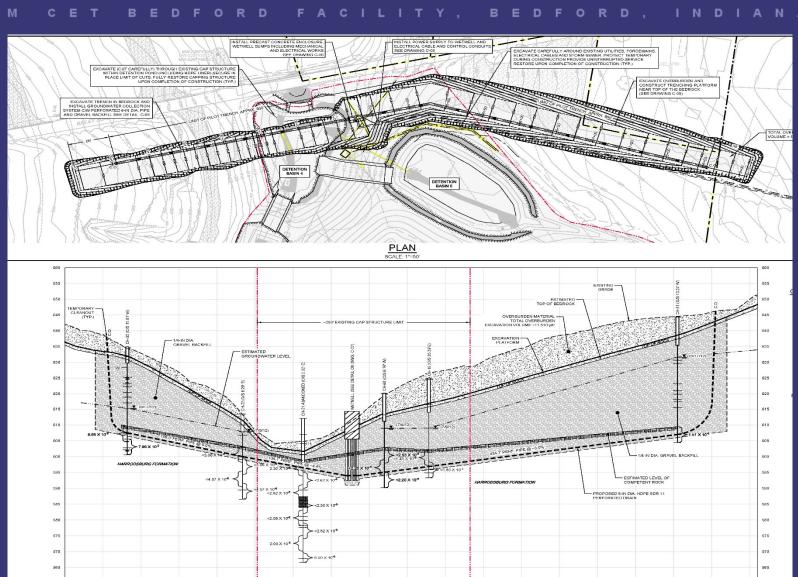


### PILOT PERIMETER GROUNDWATER TRENCH COLLECTION SYSTEM

- GM CET BEDFORD FACILITY, BEDFORD, INDIANA
- Pilot perimeter groundwater trench collection system construction began in August 2015, with rock cutting completed in December.
- Construction of pipelines between the trench, GWTP and storm water WTP is completed.
- Trench components (vinyl sheeting, grout, perforated pipe, drain stone) is completed.
- Re-installation of the cover system (liner, common fill, topsoil) is completed. Seeding to follow.
- Wet Well #4 construction is completed.
- GM and GHD to develop a Pilot Study (pilot trench interim groundwater monitoring and operation schedule) to U.S.EPA within 60 days of the completion of the pilot



#### PILOT PERIMETER GROUNDWATER TRENCH **COLLECTION SYSTEM**



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# PILOT PERIMETER GROUNDWATER TRENCH COLLECTION SYSTEM

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# PILOT PERIMETER GROUNDWATER TRENCH COLLECTION SYSTEM

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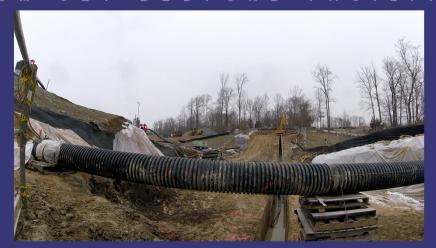






# PILOT PERIMETER GROUNDWATER TRENCH COLLECTION SYSTEM

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# PILOT PERIMETER GROUNDWATER TRENCH COLLECTION SYSTEM











- GM CET BEDFORD FACILITY, BEDFORD, INDIAN/
  - Minimize vegetation (e.g. algae, leaves, wood, etc.)
  - Minimize habitat (e.g. frogs, turtles, birds, fish, etc.)
  - Minimize TSS/TDS (clean out storm sewers to address oil, aluminum, sediments, etc.)
  - Clean up impacted sediments from the Stormwater Pond (7,600 cy of PCB impacted sediments, PCBs up to 1,000 ppm)
  - Minimize velocities which could scour impacted fine sediments in the Stormwater Pond and thus minimizing O&M at the SWTP and compliance with the NPDES permit
  - Maximize storage capacity to minimize compliance issues with the NPDES permit



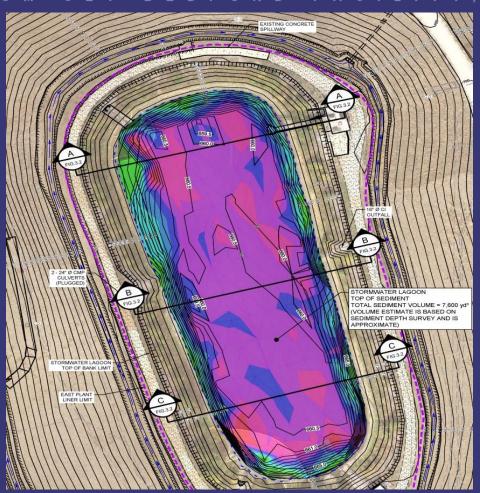


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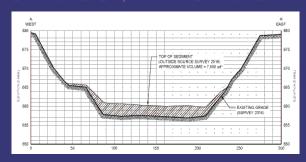


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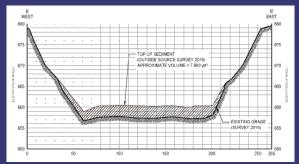
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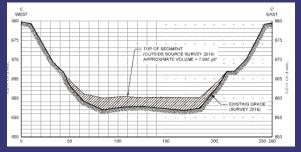
*Sediment Volume* = 7,600 cy (6,080 to 9,120 tons)



Cross-Section A-A'



Cross-Section B-B'



Cross-Section C-C'



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#### COMMUNITY RELATIONS ACTIVITIES

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- Community meetings have been held on a regular basis, currently meeting twice/year
  - Meetings will continue to be announced in the Bedford Times Mail
  - Presentations have been and will continue to be posted to the website and the library
  - People can always call Katie Kamm with questions: (812) 277-8954
- A CLP Meeting was held today
- Information from the presentations and meeting minutes are posted to the website



#### COMMUNITY RELATIONS ACTIVITIES

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- Project website at: http://www.BedfordPowertrainCorrectiveAction.com
- Quarterly Community Meetings are available on the website
- Final approved documents can be found on the project website
- Community Liaison Panel (CLP) members listed in minutes on website
- Periodic information sessions next meeting likely to be held December 2016.
- Periodic Project Fact Sheets (forty-one issued to date)
- Project Questions contact Katie Kamm: (812) 277-8954