ADM Fill of Existing Pond (wetlands on edge of pond)
NOTE:
 INCIDENTAL WORK MAY BE REQUIRED ALONG THE NORTHWEST SIDE AND NORTHEAST SIDE OF THE PROPOSED FILL TO GET EXISTING GRADES TO THE PROPOSED 378.5.

DISTURBED AREA = ±6.2 ACRES
Adjacent Wetlands to be Impacted
Projected Fill

Top Proposed Fill 378.5

Proposed Fill
Cross Sectional Area = ±18,000 square feet.
Cross Sectional Area above pond water
  = ±14,000 square feet.

Pond Water Level 359.0

Estimated from contour maps

Into page is facing Northerly & upstream.
Horizontal Scale: 1" = 100'
Vertical Scale: 1" = 10'

Zone A BFE = ±378
Maximum 3:1 Slope
Ordinary High Water
Ohio River Pool 342

90'

660'

30'

70'
Mitigation

ADM Grain Project
2005 Aerial Photography

- Buffer: 0.45 acres
- Forested Wetland: 1.9 acres
- Preserved Wetland: 1.4 acres
- Additional Preservation: 2.37 acres

Scale: 200 Feet 400 Feet
Abengoa Stream and Wetland Impacts

- Rail loop on UNT Ohio River included
  - two 158 feet long 9-foot diameter CMPS
2005
Red = Impact

Green = Stream Mitigation

2015
Mitigation Plan
Stream Mitigation

Approx. 2,200' of Proposed Channel Buffer Mitigation

Proposed 142 LF 3 Ft Diameter Corrugated Metal Culvert

Legend:
- Proposed Crushed Buffer
- Proposed Brushed Buffer
- Ohio Floodway per ON-219F
- Proposed Dry Wet Animal Crossing
- Approx. Parcel Boundary
- Existing Trees
- Easements & Ingress/Exit
- Proposed Rail Lane & Access Road
Stream Mitigation

1. Erosion control practices shall comply with storm water pollution prevention plan. Channel lining and disturbed overbank areas shall be constructed in accordance with practice 701 in the Indiana Drainage Handbook. Practice 518 in the Indiana Storm Water Quality Manual, however, seed mix must be per approved permit and mitigation plan.

2. Tree/shrub establishment shall be accomplished in accordance with practice 1204 in the Indiana Drainage Handbook and Code 612 of the Nesb Conservation Practice Standard and in accordance with any permit requirements.

3. Contractor shall comply with all local, state, and federal codes, ordinances, rules, permits, orders, and other requirements of municipal authorities which bear on the performance of the work.

4. The contractor is cautioned that the location and/or elevation of existing utilities shown on these plans is based on records of various utility companies, and where possible, measurements taken in the field. The information is not to be relied upon as being exact or complete. The contractor must contact the appropriate utility company at least 60 days before any excavation to request exact field location of utilities. Contractor shall locate existing utilities and establish elevations and clearances with proposed improvements prior to initiating construction.

5. Special specifications shall be in conformance with applicable portions of the INDOT standard specifications, latest edition. Unless specifically stated otherwise on these plans, contract documents, local codes, or permit requirements.

CONSTRUCTION NOTE

INSTALL TREE/SHRUBS HERBACEOUS AS SHOWN PER PLAN. THE NATIVE TREE/SHRUB SPECIES MAY INCLUDE, BUT NOT LIMITED TO SCHEDULE PRESENTED IN THE MITIGATION PLAN.

Stream Mitigation Details and Notes

<table>
<thead>
<tr>
<th>Designed By</th>
<th>Drawn By</th>
</tr>
</thead>
<tbody>
<tr>
<td>JMK</td>
<td>JMK</td>
</tr>
</tbody>
</table>

IDNR FW/25033 & FW/25091
Wildlife Mitigation

Wildlife passage culvert under new rail loop connected habitat due to stream culvert design.
SITran (right next door)
2015

Red = Abengoa

Green = SITran
Wetland Mitigation

- Known Archaeological Sites
- Forested Wetland Creation Areas (for isolated wetland impacts)
- Proposed Barge Loading Area
- ABENGGA ethanol project currently under construction (approximate location)
Mussel Mitigation

- Additional mussel surveys required.
- Route barges into deepest areas to greatest extent possible.
- No mussel relocation done.
- $10,000 to each fund: Kentucky Aquatic Resource Fund and Indiana’s Heritage Fund.