



September 20, 2018

Mr. Lon M. Petts  
Hoosier Energy REC  
Merom Generating Station  
5500 West Old Highway 54  
Sullivan, IN 47882

ATC Group Services LLC

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Suite 100  
Indianapolis, IN 46256

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**Re: Compliance with Location Restrictions**  
Cells 2, 3, 4 and 5 of Area 3 Type I Restricted Waste Landfill  
Hoosier Energy - Merom Generating Station  
Merom, Indiana

Dear Mr. Petts:

In accordance with your request, this letter is submitted to document that the design of Cells 2 through 5 of the Merom Generating Station Area 3- Type I Restricted Waste Landfill are in compliance with the Location Restrictions outlined in Sections §257.60 through §257.64 of the CCR Rule. Details regarding compliance with these restrictions are provided in the following paragraphs.

§257.60 Placement Above Uppermost Aquifer – The aquifer formed in saturated bedrock sandstone is the uppermost aquifer for the Area 3 Restricted Waste Landfill § 257.91 groundwater monitoring program. The upper limit of this aquifer is defined as the contact between the top of the sandstone bed and the base of overlying shale. There is at least 90 feet separating this contact (the upper limit of the aquifer) from the landfill base. The base of the landfill is also separated from the potentiometric surface of this confined aquifer by more than 5 ft.

§257.61 Wetlands – As noted in the February 17, 2010 Permit Application for the Area 3 Restricted Waste Landfill, which was reviewed and approved by the Indiana Department of Environmental Management, there are no delineated wetlands within the solid waste boundary of Cells 2 through 5 of the landfill.

§257.62 Fault Areas – As noted in the February 17, 2010 Permit Application for the Area 3 Restricted Waste Landfill, which was reviewed and approved by the Indiana Department of Environmental Management, there are no known faults within one-half mile of the solid waste boundary of Cells 2 through 5 of the landfill.


§257.63 Seismic impact Zones – The solid waste boundary of Cells 2 through 5 does lie within a seismic impact zone. However, as noted in the February 17, 2010 Permit

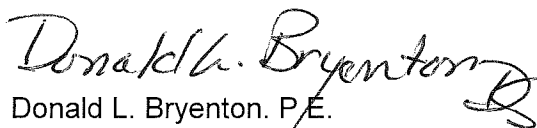
Application for the Area 3 Restricted Waste Landfill, which was reviewed and approved by the Indiana Department of Environmental Management, the structural components of the landfill (including liners, leachate collection and removal systems, and surface water control systems are designed to resist the maximum horizontal acceleration in lithified earth material for this site.

§257.64 Unstable Areas - As noted in the February 17, 2010 Permit Application for the Area 3 Restricted Waste Landfill, which was reviewed and approved by the Indiana Department of Environmental Management, there are no known underground mines or karst features within the solid waste boundary of Cells 2 through 5 of the landfill. Further, the application includes settlement analyses which document that the estimated settlement of the landfill is within acceptable ranges to ensure the intended performance of the liner and leachate collection system.

Please feel free to contact either of the undersigned if you have any questions regarding this information.

Sincerely,  
**ATC Group Services LLC**

  
David L. Stelzer, Ph.D., P.E.  
Senior Project Engineer

  
Donald L. Bryenton, P.E.  
Principal Engineer

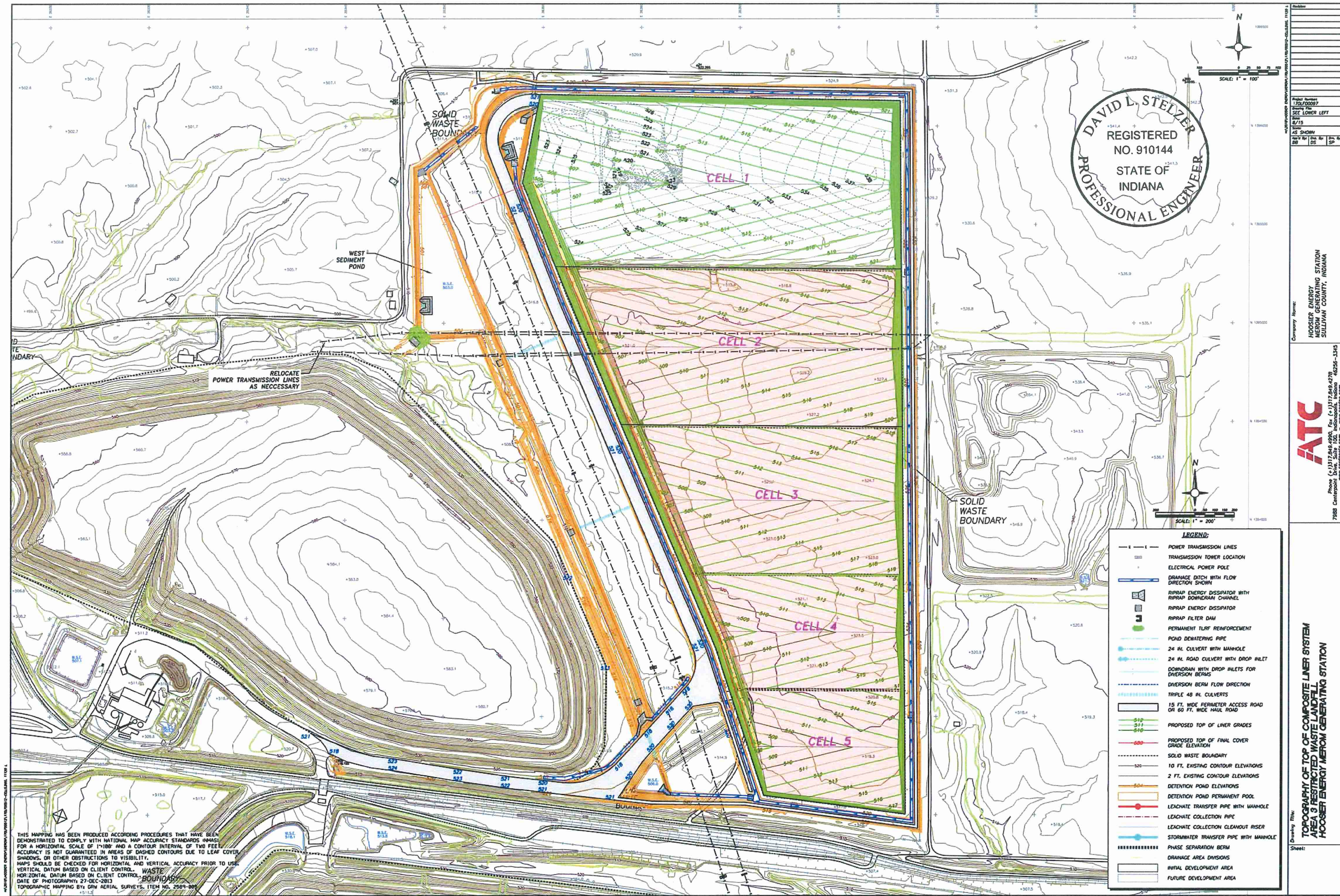
Copy: Lon Petts – Hoosier Energy



## Attachments

Approximate Limits of Cell 2, 3, 4, and 5 of Area 3 Landfill





DAVID L. STELZER  
REGISTERED  
NO. 910144  
STATE OF  
INDIANA  
PROFESSIONAL ENGINEER

N  
SCALE: 1" = 100'

N  
SCALE: 1" = 200'

- LEGEND:**
- POWER TRANSMISSION LINES
  - TRANSMISSION TOWER LOCATION
  - ELECTRICAL POWER POLE
  - DRAINAGE DITCH WITH FLOW DIRECTION SHOWN
  - RIPPRAP ENERGY DISSIPATOR WITH RIPRAP DOWNDRAIN CHANNEL
  - RIPPRAP ENERGY DISSIPATOR
  - RIPPRAP FILTER DAM
  - PERMANENT TURF REINFORCEMENT
  - POND DEWATERING PIPE
  - 24 IN. CULVERT WITH MANHOLE
  - 24 IN. ROAD CULVERT WITH DROP INLET
  - DOWNDRAIN WITH DROP INLETS FOR DIVERSION BERMS
  - DIVERSION BERM FLOW DIRECTION
  - TRIPLE 48 IN. CULVERTS
  - 15 FT. WIDE PERIMETER ACCESS ROAD OR 60 FT. WIDE HAUL ROAD
  - PROPOSED TOP OF LINER GRADES
  - PROPOSED TOP OF FINAL COVER GRADE ELEVATION
  - SOLID WASTE BOUNDARY
  - 10 FT. EXISTING CONTOUR ELEVATIONS
  - 2 FT. EXISTING CONTOUR ELEVATIONS
  - DETENTION POND ELEVATIONS
  - DETENTION POND PERMANENT POOL
  - LEACHATE TRANSFER PIPE WITH MANHOLE
  - LEACHATE COLLECTION PIPE
  - LEACHATE COLLECTION CLEANOUT RISER
  - STORMWATER TRANSFER PIPE WITH MANHOLE
  - PHASE SEPARATION BERM
  - DRAINAGE AREA DIVISIONS
  - INITIAL DEVELOPMENT AREA
  - FUTURE DEVELOPMENT AREA

THIS MAPPING HAS BEEN PRODUCED ACCORDING TO PROCEDURES THAT HAVE BEEN DEMONSTRATED TO COMPLY WITH NATIONAL MAP ACCURACY STANDARDS (NMAAS) FOR A HORIZONTAL SCALE OF 1"=100' AND A CONTOUR INTERVAL OF TWO FEET. ACCURACY IS NOT GUARANTEED IN AREAS OF DASHED CONTOURS DUE TO LEAF COVER, SHADOWS, OR OTHER OBSTRUCTIONS TO VISIBILITY. MAPS SHOULD BE CHECKED FOR HORIZONTAL AND VERTICAL ACCURACY PRIOR TO USE. VERTICAL DATUM BASED ON CLIENT CONTROL. HORIZONTAL DATUM BASED ON CLIENT CONTROL. DATE OF PHOTOGRAPHY: 27-DEC-2013. TOPOGRAPHIC MAPPING BY: GRW AERIAL SURVEYS, ITEM NO. 2589-001

Company Name: HOOSIER ENERGY STATION, SULLY COUNTY, INDIANA

Project Number: 170700027

Drawing Title: SEE LOWER LEFT

Scale: AS SHOWN

Sheet: 1 of 1

ATC

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Drawing Title: TOPOGRAPHY OF TOP OF COMPOSITE LINER SYSTEM AREA 3 RESTRICTED WASTE LANDFILL HOOSIER ENERGY MEROM GENERATING STATION

Sheet: 1 of 1