



# MULTI-PHASE EXTRACTION (MPE) REMEDIATION SYSTEM CONSTRUCTION

## LACQUER MANUFACTURING PLANT EVANSVILLE, INDIANA

**Client:** Private Consulting Firm  
**Contaminants:** Petroleum Based Hydrocarbons - LNAPL  
**Impacted Matrix:** Saturated Soils and Ground Water

**Project Specifics:** SE SCIENCES was contracted to provide conceptual design and facilitate the construction of a MPE remediation unit. An advanced system controls package was developed to address stringent air and water effluent discharge issues associated with the mfg. facility.

SE SCIENCES personnel constructed a “turn-key” unit with the following capabilities:

- Continuous Remote Monitoring  
*Hydrocarbon emission discharge levels,  
 Emission discharge flow rate,  
 Applied vacuum levels,  
 Effluent discharge total gallons,  
 Bag filter pressure differentials,  
 Operations room temperature,  
 Animated P&ID display,  
 Equipment duty cycles.*
- Continuous Remote Control  
*Industrial computer – PLC platform,  
 Email – fax - phone notification.*

**Current Site Status:**  
**Full Scale Implementation**

