

# Grouting Stabilization Project



Once a site is identified and boundaries defined, holes are bored at intervals on a grid pattern. Grout will be pumped through these pipes to fill the voids.



Crews drill in a suspected subsidence location. They are looking for voids or empty spaces which indicate the presence of abandoned underground mine workings. Further test drilling will be used to determine size, depth and areal extent of the mine openings. This allows a determination of what surface features are threatened by potential subsidence.



Once the holes are drilled a grout mixture is pumped into the void. This is a mixture similar to concrete. It will harden in place and improve stability of the area. If the site is accessible a “pumper truck” will drive right to the site and unload directly into the hole.



**Indiana Department of  
Natural Resources,  
Division of Reclamation**



IDNR: Division of Reclamation  
Jasonville Office  
14619 West State Road 48  
Jasonville, IN 47438  
Phone: 812.665.2207  
Toll free (within Indiana): 800.772.6463  
Fax: 812.665.5041  
<http://www.in.gov/dnr/reclamation>



Some areas are not accessible by heavy equipment. Instead of large machinery, “slicklines” or long hoses can be used to transport the grout. When a “slickline” crosses a driveway or other access point it is covered to reduce obstruction for homeowners and



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A “batch plant” is often built on or near a subsidence construction area. This plant is temporary and used to mix ingredients necessary for the grout. Material is brought in limited quantities and stored on site. It is mixed and then shipped out via pump trucks. Having material mixed on site saves time and money. Quantities are kept low to minimize its’ impact on the neighborhood. Working hours are also limited to further reduce the intrusion of construction on surrounding homeowners, traffic and businesses.



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**Batch plant photos provided courtesy of Howard Concrete Pumping Company, Inc.**