



**pennsylvania**

DEPARTMENT OF ENVIRONMENTAL PROTECTION

Office of Active and Abandoned Mine Operations

FAIRHOPE (MULTI-STRUCTURE SUBSIDENCE)

Abandoned Mine Reclamation Project

Contract No. OSM 26(2757)102.1 EMER

Bureau of Abandoned Mine Reclamation

286 Industrial Park Road

Ebensburg, PA 15931-4119

**DEPARTMENT OF ENVIRONMENTAL PROTECTION  
OFFICE OF ACTIVE AND ABANDONED MINE OPERATIONS  
BUREAU OF ABANDONED MINE RECLAMATION**

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ABANDONED MINE RECLAMATION PROJECT  
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**FACT SHEET**

**Location:** The project site is located in Washington Township, Fayette County. The site can be accessed from Interstate 76 West (I-76W), Exit 75 for I-70W toward Wheeling, WV. Continue onto I-70W for 13 miles. Take Exit 44 toward Arnold City. Turn left onto State Route 3011, turn right onto Finley Road, turn right to stay on Finley Road, turn left onto Rehoboth Road, turn right onto Cooks Lane, continue onto Long Avenue, turn right onto Perry Avenue and turn left onto Smithfield Street.

**Watershed:** Monongahela River, Warm Water Fishes (WWF) and UNT to Monongahela River, WWF

**Official Start Date:** 6/25/2020

**Contract Completion Date:** 9/15/2020

**Contractor:** Howard Concrete Pumping, Inc.

**Property Owners:**

Dustin A. Leonard 107 Smithfield Street Belle Vernon, PA 15012	Paulette Raddock 108 Smithfield Street Belle Vernon, PA 15012
David A. Fisher 109 Smithfield Street Belle Vernon, PA 15012	James F. Gardner 112 Smithfield Street Belle Vernon, PA 15012
Patricia A. Lemley 113 Smithfield Street Belle Vernon, PA 15012	Darryl B. and Darla J. Sickles 116 Smithfield Street Belle Vernon, PA 15012
Robert E. and Janet L. Baron 117 Smithfield Street Belle Vernon, PA 15012	Tina Mutich 120 Perry Avenue Belle Vernon, PA 15012
Kenneth Shultz 107 Dinsmore Street Belle Vernon, PA 15012	Elmer C. and Mary L. Spiker 117 Dinsmore Street Belle Vernon, PA 15012
Lorraine K. Gianella 109 Dinsmore Street Belle Vernon, PA 15012 Terry W. Gray and	Thomas J. Oliver 115 Dinsmore Street Belle Vernon, PA 15012

Sandra R. Gray  
122 and 124 Perry Avenue  
Belle Vernon, PA 15012

**Project Cost:** \$797,419.50 (Bid Amount), \$1,026,901.79 (Final Amount)

**Project Area:** 3-Acre subsidence

**Purpose:** To eliminate public health and safety hazards on abandoned mine lands (AML) located in close proximity to high foot traffic areas.

**Description:** The Fairhope (Multi-Structure Subsidence) emergency project consisted of reclaiming one (1) Priority 1 Subsidence (S) Abandoned Mine Land Feature (AMLF) located in Washington Township, Fayette County. The existing Priority 2 feature was upgraded to a three-acre Priority 1 feature in Problem Area No. 2757 and referenced on the Fayette City 7.5 Minute USGS Quadrangle Map. On the evening of June 1, 2020, the Department received notification of a possible mine subsidence event in Belle Vernon, PA. Significant structural damage included displaced water and gas lines and damage to the street. A visual inspection by the Department's BAMR confirmed that a mine subsidence event had occurred at 107 and 109 Smithfield Street, and an examination of the remaining homes revealed approximately 13 structures sustained damage. The impacted structures and surrounding surfaces showed patterns consistent with mine subsidence. The incident was most likely a result of overburden collapse into the Tremont Mine in the Pittsburgh Coal Seam. The Monongahela River Consolidated Coal and Coke Company operated the mine approximately 140 feet beneath the surface and conducted its last mining operations prior to 1940. Since there was a high potential for additional damage to occur, this risk represented an adverse effect on public health and safety according to criteria established by Title IV of the Surface Mining Control and Reclamation Act (SMCRA). An AML emergency project was proposed to stabilize the mine workings below the surface as immediate corrective action was necessary to stabilize the subsidence and to prevent any additional movement that could potentially impact public health and safety. Minimum reclamation work consisted of stabilizing a three-acre subsidence prone area encompassing approximately 13 structures by drilling multiple boreholes around the homes and injecting a flowable Portland Cement grout to backfill any remaining mine voids beneath the properties.

**Funding:** Pennsylvania's Abandoned Mine Land Grant

**Project Management:** Bureau of Abandoned Mine Reclamation  
Cambria District Office  
814.472.1800

**Accomplishments:**

PRIORITY	AMLF #	AMLF KEYWORD	MEASUREMENTS						QUANTITY	UNIT
			ACRES	HEIGHT	LENGTH	COUNT	VOL.	FLOW		
1	2757-01	S	3.0	-	-	-	-	-	3.0	ACRES

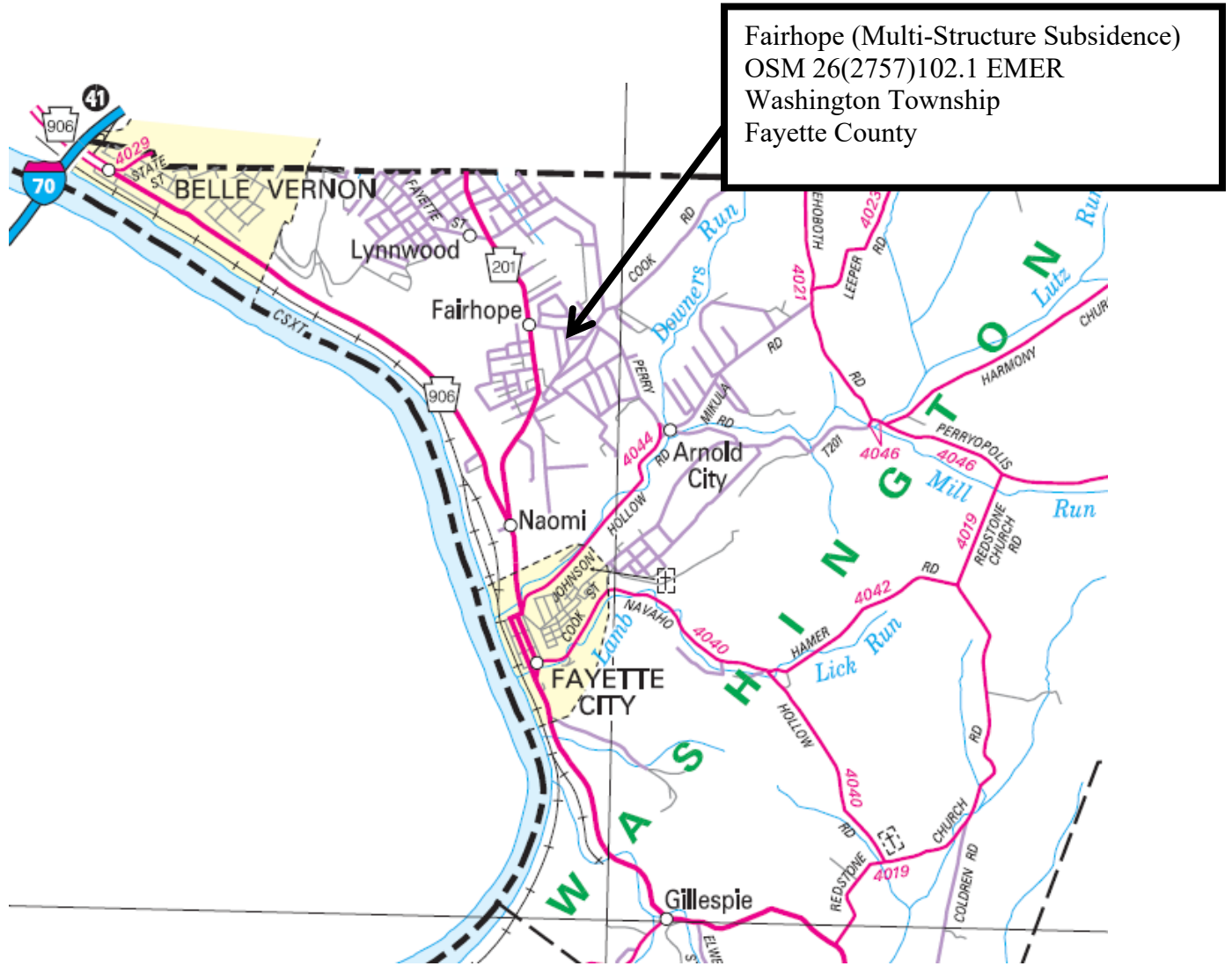
S = Subsidence

The project included drilling and sealing 55 boreholes. Approximately 8,734 cubic yards of grout was injected into the abandoned mine workings.

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Location Map





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Pre-Construction



FAIRHOPE (MULTI-STRUCTURE SUBSIDENCE)



During Construction



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## Post Construction



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# Post Construction

