

**STATE OF OHIO
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF MINERAL RESOURCES MANAGEMENT**

**SCHOTT HIGHWALL RECLAMATION PROJECT
STARK COUNTY, OHIO
PROJECT NUMBER: ST-Bh-08**

PROJECT DESCRIPTION

The Schott Highwall Reclamation Project is located on a pre-law coal mine site. The project site is located in the south-central portion of Stark County, just north and west of the Village of Bolivar, on Shepler Church Ave. SW, in Bethlehem Township. The project site is located approximately 1,400 feet north of the intersection of Shepler Church Ave. SW and Riverdale Street.

The project site consists of a Dangerous Highwall (DH), which has been segmented by an access drive, and two associated impoundments. The west impoundment has been classified as a Dangerous Impoundment (DI) due to its close proximity to the roadway, insufficient discharge structures, seeping embankment and evidence of visitation. The east impoundment has been classified as a Hazardous Water Body (HWB) due to its steep side slopes and close proximity to an occupied residence. The highwall has an average height of approximately 50 feet above the impoundments, a maximum height of 60 feet, and is approximately 1,400 feet in total length.

The intent of this project is to eliminate the DH, DI and HWB by backfilling the highwall with readily available existing spoil. Once access to the site has been constructed, clearing and grubbing performed and impoundments dewatered, the backfilling of the highwall will proceed. Positive drainage will be achieved by constructing a grass lined channel to convey drainage to a proposed permanent dry detention basin. The dry detention basin will be utilized as a temporary sediment basin until acceptable vegetation has been established. Within the basin an engineered catch basin riser and outlet pipe will regulate the discharge through the earthen embankment. The drainage will then pass through an energy dissipation pad and rock lined channel before entering the existing road ditch. Once grading has been approved, the site will be limed, fertilized, seeded and mulched.

During the maintenance period of the project, the Contractor will be responsible for the removal of all temporary sediment control structures, the revegetation of areas disturbed by the removal of the structures, mowing, and the application of maintenance fertilizer.

Major work items include:

1. Mobilization.
2. Initial construction and final top-dressing of access road and staging area utilizing 195 tons of No. 3 and No. 4 stone.
3. Construction of 215 feet of temporary fencing.
4. Removal of 650 feet of existing fencing.
5. Clearing and grubbing of 8 acres.
6. Impoundment dewatering of approximately 5,000,000 gallons.
7. Debris removal and disposal of 10 tons.
8. Approximately 186,000 cubic yards of earthwork, including 1,000 cubic yards of soil compaction, to backfill the highwall and construct stormwater runoff structures (i.e. dry detention basin, emergency spillway, vegetated channel, etc.).
9. Installation of an ODOT 2-3 dry detention basin riser structure utilizing 3 tons of No. 57 compacted structural bedding.
10. Installation of a precast concrete headwall, 222 linear feet of 12-inch diameter HDPE pipe, an animal guard and approximately 750 cubic yards of soil compaction for the outlet pipe.
11. Construction of an energy dissipation pad at the outlet pipe utilizing 2 tons of No. 3 and No. 4 stone and 4 tons of Type "D" rip rap.
12. Construction of a rock lined channel utilizing 8 tons of No. 3 and No. 4 stone and 24 tons of Type "D" rip rap.
13. Construction of a temporary sediment control structure at the catch basin riser. The structure shall include a 4" Faircloth Skimmer, 3" schedule 40 PVC barrel and a support pad utilizing 2 tons of No. 3 and No. 4 stone.
14. Installation of 1,300 linear feet of silt fence/straw bale dikes.
15. As-built survey of dry detention basin.
16. Application of 82.5 tons of lime.
17. Revegetation of 16.5 acres.
18. Boundary survey of Schott/Morgan property line.
19. Installation of a pipe gate.
20. Construction of 200 feet of permanent woven wire fencing.
21. Removal of temporary fencing.

During the Maintenance Period:

22. Removal and proper disposal of temporary sediment control devices.
23. Revegetation of areas disturbed during the removal of the temporary sediment control devices.
24. Mowing and maintenance fertilizer shall be performed on 16.5 acres.

The following ODNR-DMRM staff is involved with this project and may be contacted with any questions or concerns.

<u>Project Officer:</u>	Jeffrey Clarke	330-222-1527
<u>Project Engineer:</u>	Tom Wiley	330-339-2207
<u>Design Engineer:</u>	John T. Kulifay	330-222-1527

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DIRECTIONS TO PROJECT SITE

The project site is located in the south-central portion of Stark County just north and west of the Village of Bolivar on Shepler Church Ave. SW, in Bethlehem Township.

From Canton and North:

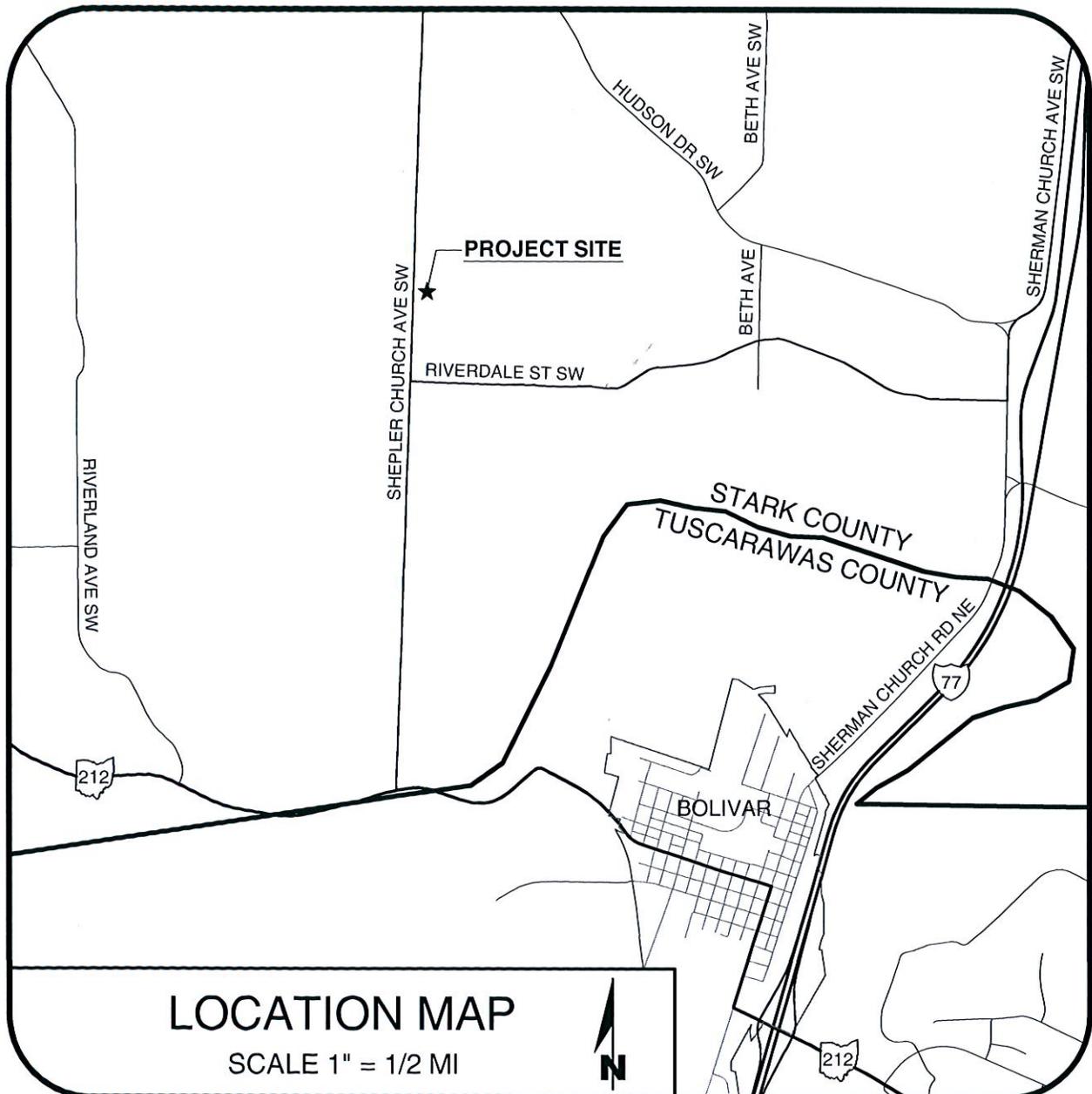
From I-77S take the Fohl Street exit, Exit 99, toward Navarre. In 0.2 miles, turn right onto Fohl Street SW. In 1.9 miles, turn left onto Shepler Church Ave. SW. The project site is approximately 3.9 miles ahead on the left.

From Cambridge and South:

From I-77N take the OH-212 exit, Exit 93, toward Bolivar/Zoar. In 0.3 miles, turn left onto OH-212/N Cary Drive. In 0.2 miles, turn right onto Park Ave. SW/OH-212. In 0.4 miles, turn left onto Poplar Street NW/OH-212 and continue to follow OH-212. In 1.3 miles, turn right onto Shepler Church Ave. SW. The project site is approximately 1.6 miles ahead on the right.

From Wooster and West:

From US-30E, merge onto US-62W/OH-21S toward Navarre. In 2.8 miles, turn left onto Wooster Street NE. In 0.2 miles, turn right onto Market Street NE. In 0.1 mile turn left onto Canal Street E. In 0.2 miles, Canal Street E becomes Hudson Drive SW. Continue on Hudson Drive SW for 3.1 miles before turning right onto Shepler Church Ave. SW. The project site is approximately 1.2 miles ahead on the left.



Latitude: 40.677217, Longitude: -81.471944