

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

**EAST CADIZ WATER LINE MAINTENANCE  
HARRISON COUNTY, OHIO  
RECLAMATION PROJECT NUMBER HR-Gr-29**

**PROJECT DESCRIPTION**

The East Cadiz Water Line Maintenance Reclamation Project consists of roadway and waterline affected by pre-law surface coal mining. The project site is located in Green Township, Harrison County across the street from 46600 Old Hopedale Road (CR 5). The mine drainage has been accumulating and drops out iron precipitant that is clogging the road drainage ditch. This is causing the seepage to drain onto the county road and it is freezing during the winter months. This is a major safety hazard to motorists traveling on the county road. The seep surfaced during installation of the county waterline, which was part of the East Cadiz Water Line Reclamation Project (HR-Gr-25). As a result a section of the waterline was not properly buried.

The project involves installing an underdrain, reconstructing a roadside ditch, and burying the exposed waterline. Excess material will be off loaded in the Excess Material Disposal Area. Temporary sediment controls will be installed. After final grading, site restoration and revegetation will be completed. Landowner's spring conveyance pipe crosses the work area and it must be maintained during the construction.

The scope of work for the project includes: access, installation of underdrains, No. 1 & No. 2 washed river gravel, No. 57 gravel, filter fabric, excess material disposal and grading of excess material, waterline installation, asphalt pavement replacement, maintaining traffic, and site restoration.

The Contractor shall furnish all labor, materials, and equipment necessary to perform all the work shown on the Construction Plan Set and located herein.

The Contractor is wholly responsible for ensuring site safety for both his own work crew and the public.

Major work items include:

1. Mobilization and installation of temporary traffic control devices.
2. Installation of Access/Staging Area. Including 25 tons No. 4 Stone for construction and 25 tons No. 57 Stone top dressing of Access/Staging Area, and 140 linear feet of Straw Wattles.
3. Dewatering of the seep and directing away from the construction area.
4. Installation of 12" diameter Mega Green WT IB HDPE N-12 Pipe. Consisting of 60 linear feet of perforated underdrain pipe and 400 linear feet of solid underdrain pipe, including the bedding, and compacted soil backfill. Installation of a perforated catch basin, clean out, and other required appurtenances. Forming and installation of the concrete pipe anchor.
5. Installation of 40 linear feet of 12" culvert under Snyder Road as needed per the direction of the Chief.
6. Exposure and temporary placement of the waterline out of the way to perform work. Then burial of approximately 430 linear feet of waterline.
7. Clearing of the ditch area and excess material disposal area. Grading of excess material disposal area after placement of approximately 230 cubic yards. Removing, stockpiling, and replacing of topsoil.
8. Utilization of approximately 130 tons of No. 57 washed river gravel bedding, 110 tons of No. 2 Washed River Gravel backfill, and 250 square yards of filter fabric for backfilling underdrains. Also 1 ton of Type 'C' Rock Channel Protection with 0.33 ton of No. 3 & No. 4 Stone bedding for underdrain energy dissipation.
9. Installation of 10 cubic yards of clay to seal between the perforated underdrain and the solid underdrain.

10. Restoration and revegetation of 0.6± acres, including application of fertilizer, seed, and mulch.
11. Grading and installation of Erosion Control Blanket for the Road Ditch.
12. Removal, storage, and resetup of approximately 140 linear feet of wire fence including posts. Also installing approximately 190 linear feet of temporary fence until the Excess Material Disposal Area is stabilized.
13. Repair roadways including Chip and Seal and Asphalt Pavement Replacement, as required.
14. Stabilization and restoration of access/staging area as directed by the Chief.

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

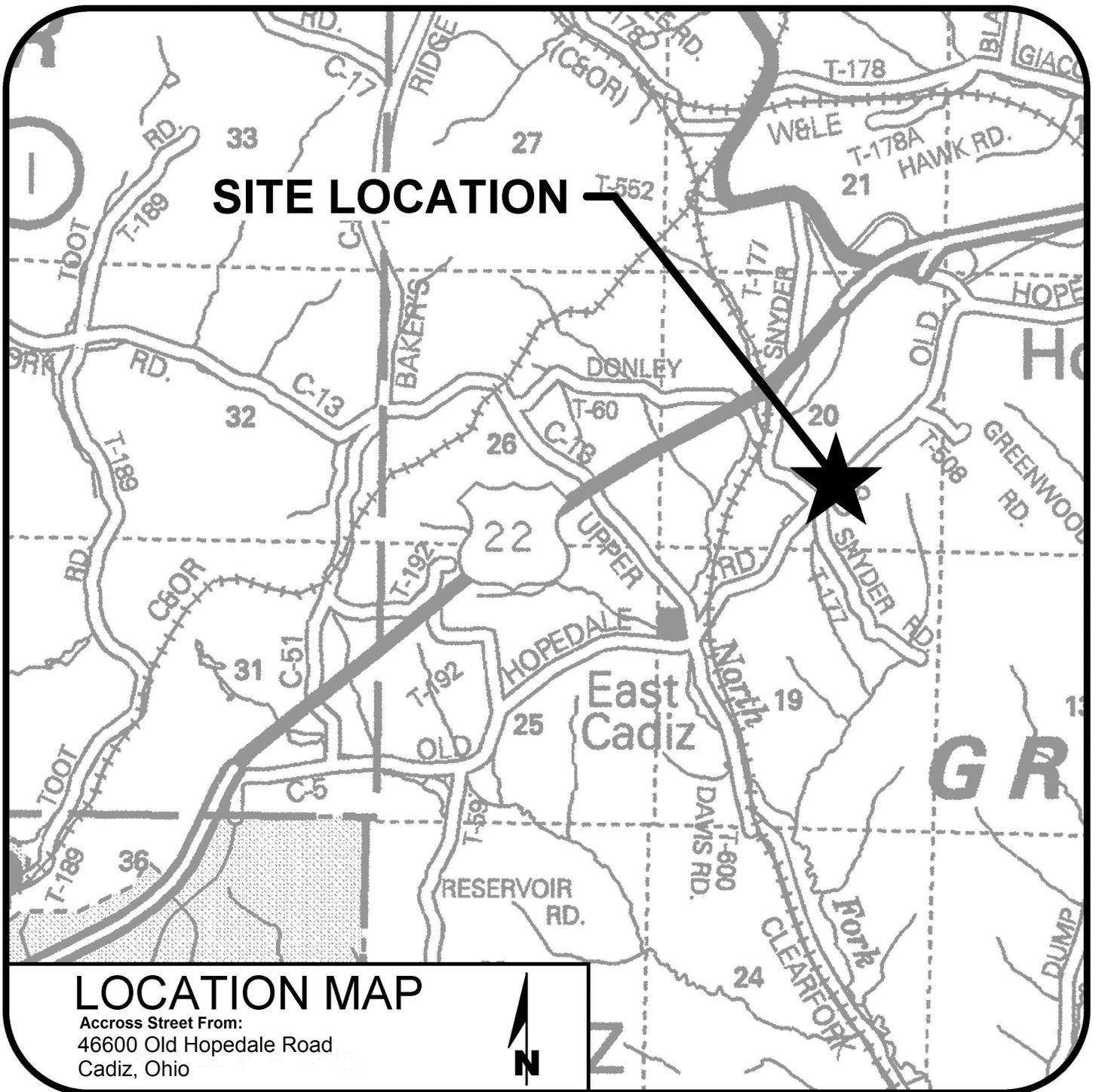
<u>Project Officer:</u>	Jeff Clarke	330-222-1527
<u>Project Engineer:</u>	Tom Wiley, P.E.	330-339-2207
<u>Design Engineer:</u>	Jason R. Jones, E.I.	330-339-2207

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Directions to Project Site

From the interchange of US Route (US) 22 and Gable Road (SR 151 West, Jewett & Scio Exit) near Hopedale, Ohio. Turn left off either exit ramp from US 22 (East or West) and follow Gable Road for approximately 0.3 miles, to Old Hopedale Road (CR 5). Turn Right onto CR 5. Continue along CR 5 for approximately 0.8 miles and turn left into the drive to the horse barn across from the home of Martin and Jean Snyder at 46600 Old Hopedale Road. The seep is just after the drive to the horse barn.



**LOCATION MAP**  
Across Street From:  
46600 Old Hopedale Road  
Cadiz, Ohio

Location Map  
East Cadiz Water Line Maintenance - HR-Gr-29  
N.T.S.