



The PA DCNR Conservation Measures listed in the FNDI will be followed to protect plant species of special concern.

- Property Ownership**
1. John Kosky Contracting Inc.
  2. Clyde Holding, Inc.
  3. John Kosky Contracting Inc.
  4. John Kosky Contracting Inc.
  5. John Alan & Stacy A. Kosky
  6. Peoples Natural Gas Company LLC
  7. Peoples Natural Gas Company LLC
  8. Kathleen Martinic & Dan B. Derber
  9. Cathy H. & John P. Lozsky
  10. Dolores Thompson & Leslie A. Hutchins, Jr.
  - 10A. Edgar C. Sweeney, Jr. & Carol Hupp
  - 10B. Raymond R. & Tammy M. Schmitt
  11. Frank & Mary Jane Elaw
  12. Travis D. & Shannon R. Rhodes
  13. William & Dana Mikolay
  14. Wilford A. & Pearlise Buel
  15. John L. Jr. & Kim Ondrick
  16. Paul A. & Deanne Hein
  17. Robert E. & Patricia L. Kiefer
  18. David K. & Robert G. Sloan
  19. Bryan L. Lancaster
  20. Virginia A. Crawford Rev. Trust
  21. Christopher J. & Brittany N. Coffield
  22. Christopher J. & Brittany N. Coffield
  23. East Bethlehem Church
  24. Kenneth & Cathleen Harasty
  25. Michael J. & Sylvia A. Burke
  26. Alyssa M. Ford
  27. David A. Webeck & James C. Webeck
  28. Joshua A. Zuprowick
  29. James C. & Marissa Webeck
  30. Robert J. & Marsha L. Sweeney
  - 30A. Robert J. & Marsha L. Sweeney
  31. Southwestern PA Water Co.
  32. Renee E. Simpson
  33. William L. Beck
  34. Buckingham Cemetery Assn
  35. Mark A. Yone
  36. John Alan & Stacy A. Kosky
  37. John Alan & Stacy A. Kosky
  38. Frank G. & Margaret J. Startare & Joseph J. Startare
  39. Joseph J. & Nena M. Startare
  40. Jason White
  41. Freddie D. Ervin
  42. Deborah J. & Joseph C. Shriner
  43. Deborah J. & Joseph C. Shriner
  44. Robin L. Doman & Susan G. Guinchuck
  45. Joseph A. & Shirley S. Yabonski and Joseph M. Yabonski
  46. Harold & Kathleen Rice
  47. Harold & Kathleen Rice
  48. Margaret A. Furnan & Katherine M. Kasula
  49. Margaret A. Furnan & Katherine M. Kasula
  50. Bethanne L. Morgan
  51. Canfield Farms LTD Partnership
  52. David A. Smereczak
  53. Joanna L. Dragan

- EXHIBIT 9 PHASE 1 BOND MAP LEGEND**
- Mining Area - 55.8 Acres
  - Bonded Support Area - 38.6 Acres
  - Bonded Mining Area - 8.6 Acres

**Mine Summary Chart**

Key	Operator	Permit No.	Mine Name	Status	Coal Seams
I	Neiswonger Construction, Inc.	63100401	Maggie Lynn Quarry	Active	Benwood Limestone
II	Neiswonger Construction, Inc.	63110101	Bugger #1	Completed	Wbg
III	PA Coal Reclamation, Inc.	63813210	Hawkins	Active	Coal Refuse Reprocessing
IV	Yentig Industries, Division of U.S. Natural Resources, Inc.	32745M29	LOS	Completed	Wbg
V	Boyle Land & Fuel Co.	6380108	Fitzwater	Completed	Wbg
VII	Boyle Land & Fuel Co.	6382306	Huffman	Completed	Wbg
VIII	Nardec Contracting Co., Inc.	32755M30	Fitzwater	Completed	Wbg
IX	BCNR Mining Corp.	63743703	Clyde Mine-Black Dog Hollow	Abandoned	Coal Refuse Disposal
X	Westmont Coal Company, Inc.	6376144	Deemston	Completed	Wbg
XI	TRAM Resources, Inc.	32475M48	Fargo	Abandoned	Wbg
	B.L.F. Corp.	326765M8	Bushita	Completed	Wbg
	Dragan & Son	326765M2	Belle No. 11	Completed	Wbg
XX	MonValley Steel Company, Inc.	63891301	Clyde	Completed	Pittsburgh
	Unknown	Unknown	Country Bank	Abandoned	Wbg

Location shown on Exhibit 6.1  
The Clyde underground mine underlies the entire permit boundary and the 1000' perimeter around it.

Drill Hole	Surface Elevation	Overburden	Strata Thickness	Strata Name	Bottom Elevation	Static Water Level
DH-1-OB	1145.1'	60'	12"	Wbg	1079.1'	---
DH-2-OB	1120.8'	41'	36"	Wbg	1076.8'	---
DH-3-OB	1137.7'	50'	72"	Wbg	1065.7'	1089.7'
DH-4-OB	1152.68'	69'	36"	Wbg	1083.68'	1084.68'
DH-5-OB	1138.14'	53'	48"	Wbg	1085.14'	1088.14'

- Legend**
- Permit Boundary - 336.7 acres
  - Surface Site Boundary - 87.5 acres
  - Underground Mining Boundary - 256.6 acres
  - 1000' Perimeter
  - Property Ownership (keyed to table and module 5)
  - Municipal Boundary
  - Utility (overhead) E-Electric (West Penn Power)
  - Utility (underground) T-Telephone (Marionna-Scenery Hill Telephone Co.)
  - Utility (underground) C-Cable (As Noted) W-Water (Southwestern Pennsylvania Water Authority)
  - Buildings (occupied/unoccupied)
  - Existing Gas Well
  - Variance Area - Surface Mining Allowed
  - Restricted - No Surface Mining Without a Variance
  - Welland - Delineated, Flagged and Surveyed
  - Welland - Visually Identified and Mapped
  - Tree Line
  - Module 14 Cross-sections
  - Bottom of Benwood Limestone Cropline
  - Formation Contact Line - Top of Benwood Limestone
  - Waynesburg Coal Cropline
  - Waynesburg A Coal Cropline
  - Deep Mine Area and Portal
  - Previously Surface Mined Areas
  - Existing Culverts
  - Proposed Culverts RCP-Reinforced Concrete Pipe CPP-Corrugated Plastic Pipe CMP-Corrugated Metal Pipe SP-Steel Pipe
  - Cemetery
  - Proposed Final Highway
  - Existing Highway
  - Reclaimed Highway (42021)
  - NPDES Point
  - Earthen Berm
  - Super Filter Fabric Fence
  - Collection Ditch - Grass Lined
  - Collection Ditch - Rock Lined
  - Division Ditch
  - Level Lip Spreader
  - Ditch Energy Dissipator
  - Sedimentation Pond
  - Treatment Basin - N/A
  - Non-Prime Farmland Topsoil Storage Area
  - Prime Farmland Topsoil Storage Area - N/A
  - Temporary Spoil Storage Area
  - Perennial Stream
  - Intermittent Stream
  - Ephemeral Stream
  - Relocated / Reconstructed UNT "E"
  - Existing Pond / Impoundment
  - Prime Farmland Soils - Negative Determination Requested
  - Product Stockpiles
  - Test Hole
  - Overburden Analysis Test Hole
  - Monitoring Well
  - Mining Bench Contour Line
  - Mining Bench Interior Line
  - Indicates dwelling is served by public water
  - Geologic Cross Sections
  - No underground mining until PennDOT approval is secured
  - Phase Boundary
  - Phase Designation
  - Overhead Utility Pole

\* Location shown on Exhibit 6.1  
TS - Top Split; BS - Bottom Split; Wbg A - Waynesburg "A" Seam; Wbg - Waynesburg Rider; LWbg - Lower Waynesburg; BOV - Bottom of Void

Drill Hole	Surface Elevation	Overburden	Strata Thickness	Strata Name	Bottom Elevation	Static Water Level
BH-1	915.67'	32.9'	43.5'	Benwood Limestone	882.77'	882.87'
BH-2	931.75'	51.5'	48.5'	Benwood Limestone	880.25'	845.95'
BH-3	939.75'	58.9'	44.6'	Benwood Limestone	880.85'	845.75'
DH-1	922.66'	83'	48'	Benwood Limestone	839.66'	900'
DH-2	920.76'	85'	1.5'	Benwood Limestone	835.26'	901'
DH-3	911.56'	25'	48'	Benwood Limestone	886.56'	901'
DH-4	925.08'	27'	31'	Benwood Limestone	898.08'	904'
DH-5	934.08'	82'	52'	Benwood Limestone	852.08'	923'
DH-6	871.5'	0'	29'	Benwood Limestone	842.5'	845'
JLF-50	820'	112.3'	11.1'	Pittsburgh Rider (3)	707.7'	---
		114.2'	1.5'	Pittsburgh Rider (2)	706.2'	---
		116.1'	7.3'	Pittsburgh	692.8'	---
		39.8'	34'	Waynesburg Rider	782.2'	---
		205'	51'	Benwood Limestone	727.3'	---
		235'	55'	Benwood Limestone	889.5'	---
		290'	36'	Benwood Limestone	833.5'	---
		385'	48'	Pittsburgh	834'	745'
H-BH-1*	902'	185'	MV	Pittsburgh B.O.V.	717'	757.7' (3/12/18)
H-BH-2*	846.2'	136'	MV	Pittsburgh B.O.V.	710.2'	748.2'
H-BH-3*	814.1'	98.1'	MV	Pittsburgh B.O.V.	716'	742'
H-BH-4*	816.7'	104.7'	MV	Pittsburgh B.O.V.	712'	743'
Hole #1	875.4'	25'	25'	Benwood Limestone	850.4'	Dry
Hole #2	872.6'	25'	2'	Benwood Limestone	850.6'	854'
B-1	1023.8'	156.2'	41.2'	Benwood Limestone	827.4'	887.5'
B-2	1016.1'	181.4'	45.4'	Benwood Limestone	809.2'	873.3' (10/25/19)
		210.2'	9.6'	Benwood Limestone	805.1'	881.5' (10/30/19)

TS - Top Split; BS - Bottom Split; Wbg A - Waynesburg "A" Seam; Wbg - Waynesburg Rider; LWbg - Lower Waynesburg; BOV - Bottom of Void  
\* Injection Wells to be permanently sealed by PA Coal Reclamation, Inc.

- Notes:**
- The base map is comprised of topography (5' C.I.) developed from LIDAR Z contour data obtained from the PASDA website. The locations of roads, buildings, surface water features and other cultural data were obtained from the Elmworth & Mastier, PA 7.5' USGS Quadrangle maps and supplemented/connected by field survey and available aerial photography.
  - The property lines and property ownership shown on this map were obtained from Washington County and from Greene County tax assessment maps and records. This map does not represent an actual field survey of the properties shown and should not be used as such. All surface and mineral ownership information should be verified by the permittee.
  - All overburden and test hole elevations and locations were determined by field survey.
  - The location and extent of abandoned surface and deep mine workings depicted on this map are based upon available data without the benefit of a final certified mine map. Accordingly, neither GeoTech Engineering, Inc. nor the professional engineer/professional geologist signing this map certifies, warrants or guarantees the precise location or extent of abandoned, reclaimed or active workings depicted hereon. Unknown or unmapped mines may extend beyond the depicted boundaries and may contain abandoned mine pools as well as other safety hazards.
  - This map is georeferenced to the Pennsylvania State Plane South, North American Datum 1983 (NAD 83) coordinate system.
  - All units are in feet.

Drill Hole	Surface Elevation	Overburden	Strata Thickness	Strata Name	Bottom Elevation	Static Water Level
TH-1	1127.7'	52'	53.6'	Waynesburg coal	1074.1'	1078.7'
		272.8'	0.8'	Benwood Limestone	801.3'	---
		24'	1.8'	Waynesburg coal	1054.6'	---
TH-2'	1108.6'	190.7'	53.3'	Benwood Limestone	867.6'	1038.3'
		245.6'	0'	Benwood Limestone	862.6'	---
		82'	3'	Wbg (TS)	1076.1'	---
		86'	3'	Wbg (BS)	1074.1'	---
		254'	53'	Benwood Limestone	854.1'	1099.3'
		308'	1'	Benwood Limestone	854.1'	---
		80'	2'	Wbg (TS)	1053.9'	---
		350'	48'	Benwood Limestone	802.2'	---
		302'	3'	Benwood Limestone	830.9'	---
TH-5	1093.6'	55'	Pit	Wbg	1038.6'	Plugged
		101'	3'	Wbg A	1038.6'	---
		156'	1'	Wbg (TS)	1045.6'	---
TH-6'	1202.6'	324'	54'	Benwood Limestone	824.6'	1048.9'
		380'	3'	Benwood Limestone	824.6'	---
		57'	7'	Wbg (TS)	1101.3'	---
		89'	54'	Benwood Limestone	1065.3'	---
TH-7	1165.3'	235'	54'	Benwood Limestone	878.3'	1118.9'
		291'	---	Benwood Limestone	874.3'	---

TS - Top Split; BS - Bottom Split; Wbg A - Waynesburg "A" Seam; Wbg - Waynesburg Rider; LWbg - Lower Waynesburg; BOV - Bottom of Void  
\* Boreholes remain open to monitor static water levels

**Scale 1" = 200'**

**Neiswonger Construction, Inc.**  
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Phone: (814) 764-3455

**Maggie Lynn Underground Mine**  
Permit No. 63192001  
Exhibit 9: Operations Map

Washington County

**GeoTech Engineering, Inc.**  
Engineers Surveyors Geologists