



Drill Hole	Surface Elevation	Overburden	Strata Thickness	Strata Name	Bottom Elevation	Static Water Level
DH-1-OB	1145.1'	60'	12"	Wbg	1084.1'	---
DH-2-OB	1120.8'	41'	36"	Wbg	1079.1'	---
DH-3-OB	1137.7'	50'	72"	Wbg	1087.7'	1089.7'
DH-4-OB	1152.66'	69'	36"	Wbg	1083.66'	1084.66'
DH-5-OB	1138.14'	53'	12"	Wbg	1085.14'	1088.14'

Drill Hole	Surface Elevation	Overburden	Strata Thickness	Strata Name	Bottom Elevation	Static Water Level
Y-1	1145.9'	26'	24"	Wbg	1119.9'	---
Y-2	1181.6'	69'	24"	Wbg	1112.6'	---
Y-3	1167.9'	49'	36"	Wbg	1118.9'	---
Y-4	1182.3'	47'	24"	Wbg	1138.3'	---
Y-5	1134'	8'	6"	Wbg	1126'	---
Y-6	1117'	38'	24"	Wbg	1079'	---
Y-7	1221.5'	29'	36"	Wbg	1192.5'	---
Y-8	1180.7'	59'	24"	Wbg	1121.7'	---
Y-9	1167.1'	48'	84"	Wbg	1119.1'	---
Y-10	1167.1'	61'	12"	Wbg	1106.1'	---

- Legend**
- Permit Boundary - 350.1 acres
 - Surface Site Boundary - 110.1 acres
 - Underground Mining Boundary - 256.6 acres
 - 1000' Perimeter
 - Property Ownership (key to table and module 5)
 - Property Line
 - Municipal Boundary
 - Utility (overhead) E-Electric (West Penn Power)
 - Utility (underground) T-Telephone (Marathon/Science Hill Telephone Co.)
 - Utility (underground) G-Gas (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
 - Wetland - Delineated, Flagged and Surveyed
 - Wetland - Visually Identified and Mapped
 - Structures Contour Line - Bottom of Benwood Limestone
 - Inferred Structure Contour Line - Bottom of Benwood Limestone
 - Existing Highways (buried)
 - 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
 - RCR Barbed Concrete Pipe - CCR-Corrugated Plastic Pipe
 - CMP-Corrugated Metal Pipe - SP-Steel Pipe
 - Cemetery
 - Proposed Final Highway
 - Existing Highway
 - Reclaimed Highway (4/2021)
 - The Benwood Limestone mine floor will not go below elevation 820' in this area
 - Geologic Cross Section
 - Sedimentation Pond
 - Collection Ditch - Grass Lined
 - Collection Ditch - Rock Lined
 - Diversion Ditch
 - Perennial Stream
 - Intermittent Stream
 - Ephemeral Stream
 - Relocated / Reconstructed UNT "E"
 - Existing Pond / Impoundment
 - Test Hole
 - Overburden Analysis Test Hole
 - Water Sampling Point (Monitoring)
 - Private Water Supply
 - Strike and Dip
 - Monitoring Well - N/A
 - NPDIES Point
 - Flow Measuring Station - Flow Measurement Only
 - Indicates dwelling is served by public water
 - No underground mining if less than 100 feet of cover
 - 125' Gas Well Barrier - No Mining Until Pillar Permit is Approved
 - Module 14 Cross-sections
 - Proposed Working Contour Lines (10' Interval)
 - Haul Road
 - Tennille Creek 150' Underground Mining Barrier (please refer to Module 15.6 for additional clarification)
 - Phase Boundary
 - Overhead Utility Pole

Dip 1.6%
Dip 1.2%
Dip 1.2%
Dip 1.6%

N40° 00' 42.0" W80° 03' 10.0"

N40° 00' 42.0" W80° 01' 48.0"

- Property Ownerships**
- John Kosky Contracting Inc.
 - Clyde Holding, Inc.
 - John Kosky Contracting Inc.
 - John Kosky Contracting Inc.
 - John Alan & Stacy A. Kosky
 - Peoples Natural Gas Company LLC
 - Peoples Natural Gas Company LLC
 - Kathleen Martinico & Dan B. Derber
 - Cathy H. & John P. Lozowy
 - Dolores Thompson & Leslie A. Hutchins, Jr.
 - Edgar C. Sweeney, Jr. & Carol Hupp
 - Raymond R. & Tammy M. Schmitt
 - Frank & Mary Jane Elaw
 - Travis D. & Shannon R. Rhodes
 - William & Dana Mickley
 - Wilford A. & Pearlite Buel
 - John L., Jr. & Kim Ondrick
 - Paul A. & Deanne Hein
 - Robert E. & Patricia L. Kiefer
 - David K. & Robert C. Sloan
 - Brian L. Lancaster
 - Virginia A. Crawford Roy, Trust
 - Christopher J. & Brittany N. Coffield
 - Christopher J. & Brittany N. Coffield
 - East Bethlehem Church
 - Kenneth & Kathleen Harasty
 - Michael J. & Sylvia A. Burke
 - Alyssa M. Ford
 - David A. Webeck & James C. Webeck
 - James C. & Marissa Webeck
 - Robert J. Sweeney
 - Robert J. & Marissa L. Sweeney
 - Southwestern PA Water Authority
 - Renee E. Simpson
 - William L. Beck
 - Buckingham Cemetery Assn
 - Mark A. York
 - John Alan & Stacy A. Kosky
 - John Alan & Stacy A. Kosky
 - Frank G. & Margaret J. Startare & Joseph J. Startare
 - Joseph J. & Nena M. Startare
 - Jason White
 - Freddie D. Ervin
 - Deborah J. & Joseph C. Shriener
 - Deborah J. & Joseph C. Shriener
 - Robin L. Doman & Susan G. Genschuck
 - Joseph A. & Shirley S. Yabonski and Joseph M. Yabonski
 - Harold & Kathleen Rice
 - Harold & Kathleen Rice
 - Margaret A. Furnan & Katherine M. Kasula
 - Margaret A. Furnan & Katherine M. Kasula
 - Bethanne L. Morgan
 - Carroll Farms, LTD Partnership
 - David A. Smerczak
 - Joanna L. Dragan

Flow Monitoring Chart

Sample Point	Surface Elevation	Description
15	901.4'	Spring - Monthly Flow Only
A	891.9'	Unnamed Tributary "E" downstream above wetland - Monthly Flow Only
B	908'	Unnamed Tributary "E" downstream of confluence with Eastern Branch - Monthly Flow Only
D	914.3'	Unnamed Tributary "E" Eastern Branch downstream - Monthly Flow Only
E	962'	Unnamed Tributary "E" Western Branch downstream of sample point 22 at confluence with stream from pond 17 - Monthly Flow Only
F	958'	Unnamed Tributary "E" Western Branch downstream from pond sample point 17 at confluence with flow measuring point E - Monthly Flow Only
G	937.9'	Unnamed Tributary "E" Eastern Branch downstream of sample point 5 and upstream of flow measuring point D - Monthly Flow Only
H	955.8'	Unnamed Tributary "E" Eastern Branch downstream of sample point 5 and upstream of flow measuring point G - Monthly Flow Only
17	1037.84'	Pond - Monthly Flow Only
21	1062.13'	Iron slimes sump zone - Monthly Flow Only

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	Twight Industries, Division of U.S. Natural Resources, Inc.	3247758403	LOS	Completed	Wbg
V	Boyle Land & Fuel Co.	63860106	Fitzwater	Completed	Wbg
VI	Boyle Land & Fuel Co.	63829306	Huffman	Completed	Wbg
VII	Narick Contracting Co., Inc.	32755M30	Fitzwater	Completed	Wbg
VIII	BCNR Mining Corp.	63743703	Clyde Mine-Black Dog Hollow	Abandoned	Coal Refuse Disposal
IX	Westmont Coal Company, Inc.	6376144	Deemston	Completed	Wbg
X	TRAM Resources, Inc.	32477536	Fargo	Abandoned	Wbg
XI	B.L.F. Corp.	326765M6	Busha	Completed	Wbg
XII	Dragan & Son	328765M2	Belle No. 11	Completed	Wbg
XX	MonValley Steel Company, Inc.	63891301	Clyde	Completed	Pittsburgh
XXI	Unknown	Unknown	County Jail	Abandoned	Wbg

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

Water Monitoring Chart

Sample Point	Surface Elevation	Description
1	1064'	Ten Mile Creek - intermediate point
2	1064'	Small underground mine discharge and headwaters of eastern branch Unnamed Tributary "E" to Ten Mile Creek & Monthly Flow
3	1085'	Headwaters of Unnamed Tributary "D" eastern branch
4	1122'	Unnamed Tributary "D" - upstream
5	1020'	Unnamed Tributary "D" to Ten Mile Creek - intermediate point
6	884'	Unnamed Tributary "E" to Ten Mile Creek - downstream & Monthly Flow
7	817.1'	Wetland discharge
8	826.9'	Spring which occurs from the local flow system near the base of the Benwood Limestone
9	817.4'	Spring which occurs from the local flow system within the Benwood Limestone
10	808.6'	Unnamed Tributary "D" to Ten Mile Creek - downstream
11	804'	Ten Mile Creek - downstream
12	820'	Unnamed Tributary "D" to Ten Mile Creek - downstream
13	820'	Ten Mile Creek - upstream
14	1166.9'	Unnamed Ephemeral Tributary "A" to Black Dog Hollow - upstream
15	1131.4'	Headwaters of Unnamed Tributary "B" to Black Dog Hollow
16	948.8'	Unnamed Tributary "G" to Ten Mile Creek - intermediate location
17	812'	Reconstructed stream - downstream
18	807'	Unnamed Tributary "G" to Unnamed Tributary "G" - downstream
19	1044'	Unnamed Tributary "G" - upstream
20	812'	Reconstructed stream - downstream
21	1135.9'	Intermediate Monitoring Well - SWL only
22	1108.6'	Intermediate Monitoring Well - SWL only
23	1204.9'	Top of Casing
24	870'	Pittsburgh Mine Pool Monitoring Well - Static Water Level Only
25	801'	Sedimentation Pond P-1

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F	958'	Unnamed Tributary "E" Western Branch downstream from pond sample point 17 at confluence with flow measuring point E - Monthly Flow Only
G	937.9'	Unnamed Tributary "E" Eastern Branch downstream of sample point 5 and upstream of flow measuring point D - Monthly Flow Only
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17	812'	Reconstructed stream - downstream
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