

**APPENDIX K
DETAILED TABLES**

Table K1
Project Study Area Soils

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Mapping Unit	Name	% Slope	Description	Topographic position	Bedrock Type	Depth to bedrock (ft)	Depth to Seasonal High Water Table (ft.)	Kind	Permeability	Soil Chemistry	Run-off	Erosion
AbB	Albrights silt loam	3 to 8	gently sloping, deep, moderately well-drained; fragipan; concave slopes; areas are irregular in shape	upland depressions or side slopes of hills		>5	1.0 – 2.0	perched	moderately slow	strongly to very strongly acid	medium	moderate
AgD	Albrights very stony silt loam	8 to 25	sloping and moderately steep, deep, moderately well-drained and somewhat poorly drained; fragipan; large stones cover 5-15 percent of surface; areas are long, narrow bands or irregular in shape	base of mountains, hills, and ridges		>5	1.0 - 2.0	perched	moderately slow	strongly to very strongly acid	moderately rapid to rapid	moderate
At	Atkins silt loam		nearly level and gently sloping, deep, poorly drained; areas are long and narrow in shape	along major streams		>5	0.0 - 5.0	apparent	slow to moderate	strongly to very strongly acid	slow	slight
BkB	Berks-Weikert channery silt loam	3 to 8	sloping, moderately deep and shallow, well-drained; areas are long and narrow in shape	on ridges on hills		1.0 - 3.3	>6				medium	
BkC	Berks-Weikert channery silt loam	8 to 15	sloping, moderately deep and shallow, well-drained; areas are long and narrow in shape	hills and knobs on uplands	gray and brown shale and siltstone	2.0 - 3.5	>6		moderate to moderately rapid	strongly to very strongly acid	moderately rapid to rapid	severe
BkD	Berks-Weikert channery silt loam	15 to 25	moderately steep, moderately deep and shallow, well-drained; convex slope; areas are elongated in shape or banded	knobs and ridgetops on uplands	gray and brown shale and siltstone	2.0 - 3.5	>6		moderate to moderately rapid	strongly to very strongly acid	rapid	severe
BrA	Brinkerton silt loam	0 to 3	nearly level, deep, poorly drained; fragipan; concave slopes; areas are long and narrow in shape	lower slopes of hills and mountains		>5	0.0 - 0.5	perched	slow	strongly to very strongly acid	slow	slight
BrB	Brinkerton	3 to 8	very deep, poorly drained soils formed in medium textured colluvium derived from acid gray shale and siltstone, slope ranges from 0 to 15 percent	hillslopes on dissected plateaus							very high	
BtB	Brinkerton very stony silt loam	0 to 8	nearly level and gently sloping, deep, poorly drained soil; fragipan; stones cover 5-15 percent of surface; areas are elongated or irregular in shape	base of hills and mountains and in valleys		>5	0.0 - 0.5	perched	slow	strongly to very strongly acid	slow	moderate
CaA	Cavode silt loam	0 to 3	Deep, somewhat poorly drained soils on uplands. They formed in material weathered from shale.	hills, uplands		4.75	0.5 – 1.5		slow			
CaB	Cavode	3 to 8	deep, somewhat poorly drained soils on uplands. They formed in material weathered from shale.	hills		4.75	0.5 – 1.5					slight
CaC	Cavode	8 to 15	deep, somewhat poorly drained soils on uplands. They formed in material weathered from shale.	hillslopes, plateaus, uplands		4.75	0.5 – 1.5					moderate
CbB	Cavode very stony silt loam	0 to 8	nearly level and gently sloping; deep, somewhat poorly drained; large stones cover 3-15 percent of surface; concave slopes; areas are broad and elongated or irregular in shape	flats and in depressions on uplands and on lower slopes of hills and valleys		3.5 - 6.0	1.0 - 1.5	perched	slow	very strongly acid to strongly acid	very slow to slow	slight
CpB	Cookport very stony loam	3 to 8	deep, moderately well drained soils on uplands	uplands		3.5	1.5 – 2.5		slow			
DkB	Dekalb-Hazleton very stony sandy loams	3 to 8	Moderately deep to very deep well drained soils on uplands	mountains		3.0 - 4.5			rapid			

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ErB	Ernest silt loam	3 to 8	gently sloping, deep, moderately well drained; fragipan; large stones cover 5-15 percent of surface; concave slopes; areas are elongated or fan-shaped	lower slopes of hills and ridges		>5	1.5 - 2.5	perched	moderately slow to slow	strongly to very strongly acid	medium	moderate
ErC	Ernest	3 to 8	deep, moderately well drained soils formed in colluvium from shale, siltstone and some sandstone.	hillslopes		>5	1.4 - 1.8					slight
EsB	Ernest very stony silt loam	3 to 8	gently sloping, deep, moderately well-drained; fragipan; large stones cover about 15 percent of surface; areas are elongated or fan-shaped	lower slopes of hills and mountains		>5	1.5 - 2.5	perched	moderately slow to slow	strongly to very strongly acid	medium	slight
EsD	Ernest very stony silt loam	8 to 25	sloping and moderately steep, deep, moderately well-drained and stony; fragipan; large stones cover 3-15 percent of surface; concave slopes; areas are elongated bands or irregular in shape	side slopes of hills and ridges		>5	1.5 - 2.5	perched	moderately slow to slow	strongly to very strongly acid	medium	
FV	Fluvaquents		nearly level, deep, poorly drained to moderately well-drained; smooth slopes; areas are long and narrow in shape	floodplains and drainage ways			0.5 - 2.0		moderately slow to slow	strongly to very strongly acid	variable	
HbB	Hazelton very stony sandy loam	3 to 8	gently sloping, deep well-drained, large stones cover 3-15 percent of surface; smooth, convex slopes; areas are irregular or long and narrow in shape	mountaintops and ridges		>5	>6		moderately rapid to rapid	extremely acid to strongly acid	medium	slight
HbD	Hazelton very stony sandy loam	8 to 25	sloping and moderately steep, deep, well-drained, large stones cover 3-15 percent of surface; convex slopes; areas are commonly in long bands parallel to mountains	upper side slopes of mountains and ridges		>5	>6					
HzB	Hazelton very bouldery sandy loam	0 to 8	nearly level and gently sloping, deep, well-drained; boulders and stones cover about 60 percent of surface; areas are elongated or long and narrow in shape	mountaintops		>5	>6		moderately rapid to rapid	extremely acid to strongly acid	slow to medium	slight
HzF	Hazelton very bouldery sandy loam	25 to 60	steep and very steep, well-drained; boulders and stones cover 60-90 percent of surface; convex slopes; areas are elongated or long and narrow in shape	side slopes of mountains and ridges		>5	>6		moderately rapid to rapid	strongly acid to extremely acid	rapid	slight
LeB	Leck Kill channery silt loam	3 to 8	gently sloping, deep, well-drained; smooth to slightly convex slopes; areas are irregular in shape	upper side slopes of hills and ridges	dark red shale and siltstone	>3	5 - 6	apparent	moderate to moderately rapid	very strongly acid to strongly acid	medium	moderate
LeC	Leck Kill channery silt loam	8 to 15	sloping, deep, well-drained; smooth or convex slopes; areas are long and narrow in shape	upper side slopes of hills, mountains and ridges	dark red shale and siltstone	3.5 - 6.0	5 - 6	apparent	moderate to moderately rapid	very strongly acid to strongly acid	medium	severe
LkB	Leck Kill very stony silt loam	3 to 8	gently sloping, deep, well-drained; stones cover about 3-15 percent of surface; smooth or convex slopes; areas are elongated or long and narrow in shape	tops of hills and ridges	dark red shale and siltstone	3.5 - 6.0	5 - 6	apparent	moderate to moderately rapid	very strongly acid to strongly acid	slow	
LkD	Leck Kill very stony silt loam	8 to 25	sloping and moderately steep, deep, well-drained, large stones cover 3-15 percent of surface; convex slopes; areas are elongated or irregular in shape	upper side slopes of mountains and ridges	dark red shale and siltstone	3.5 - 6.0	5 - 6	apparent	moderate to moderately rapid	very strongly acid to strongly acid	medium	moderate
LmF	Leck Kill soils	25 to 70	steep and very steep; some surface stones; areas are long and narrow in shape	side slopes of mountains and ridges	dark red shale and siltstone	3.5 - 6.0	5 - 6	apparent	moderate to moderately rapid	very strongly acid to strongly acid	very rapid	severe

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NsB	Nolo very stony loam	0 to 8	nearly level and gently sloping, poorly-drained; large stones cover 3-15 percent of surface; slopes are smooth or concave; fragipan; areas are irregular and fan-shaped	lower slopes of mountains and ridges	gray sandstone	3.5 - 5.0	0.0 - 0.5	perched	slow	very strongly acid to extremely acid	very slow to slow	
RgB	Rayne-Gilpin channery silt loams	3 to 8	gently sloping, deep and moderately deep, well-drained; areas are oval or oblong in shape	broad ridges and hilltops on uplands	weathered shale and interbedded sandstone and siltstone	3.0 - 6.0	5 - 6	apparent	moderate	very strongly acid to strongly acid	slow	moderate
RgC	Rayne-Gilpin channery silt loams	8 to 15	sloping, deep and moderately deep, well-drained; convex slopes; areas are long and narrow in shape	upper side slopes of hills, mountains and ridges	weathered shale and interbedded sandstone and siltstone	3.0 - 6.0	5 - 6	apparent	moderate	very strongly acid to strongly acid	medium	severe
RgD	Rayne-Gilpin channery silt loams	15 to 25	moderately steep, deep and moderately deep, well-drained; convex slopes	side slopes of hills, mountains, and ridges	weathered shale and interbedded sandstone and siltstone	3.0 - 6.0	5 - 6	apparent	moderate	very strongly acid to strongly acid	rapid	very severe
RgF	Rayne-Gilpin channery silt loams	25 to 65	steep and very steep, deep and moderately deep, well-drained; convex slopes; areas are in long bands	side slopes of hills, mountains, and ridges	weathered shale and interbedded sandstone and siltstone	3.0 - 6.0	5 - 6	apparent	moderate	very strongly acid to strongly acid	very rapid	very severe
RpB	Rayne-Gilpin very stony silt loams	3 to 8	gently sloping, deep and moderately deep, well-drained; convex slopes; areas are oval or oblong in shape	upper side slopes and tops of hills, mountains, and ridges	weathered shale and interbedded sandstone and siltstone	3.0 - 6.0	5 - 6	apparent	moderate	very strongly acid to strongly acid	slow to very slow	slight
RpD	Rayne-Gilpin very stony silt loams	8 to 25	sloping and moderately steep, deep and moderately deep, well-drained; convex slopes; areas are oblong or in long, wide bands, large stones cover 3 to 5 percent of the surface	side slopes of hills, mountains and ridges	weathered shale and interbedded sandstone and siltstone	3.0 - 6.0	5 - 6	apparent	moderate	very strongly acid to strongly acid	medium to rapid	moderate
UDA	Udorthents, mine spoil	0 to 8	areas filled and disturbed by earth moving activities	plateaus, surface mines, uplands	variable	> 5	> 6.0		moderately rapid			
UDD	Udorthents, mine spoil	8 to 25	areas that have been surface mined for coal; soils are sloping and moderately steep; mixtures of soil and variable amounts of shale and sandstone fragments	surface mines, uplands, plateaus	variable	variable	variable	variable	variable	slightly acid to extremely acid		severe to very severe
UDF	Udorthents, mine spoil	25 to 70	areas that have been surface mined for coal; slopes are steep and very steep; mixtures of soil and variable amounts of shale and sandstone fragments	uplands, surface mines	variable	variable	variable	variable	variable	slightly acid to extremely acid		severe to very severe
WhB	Wharton silt loam	3 to 8	gently sloping, deep, moderately well-drained; smooth and convex slopes; areas are oval or irregular in shape	broad hills and ridges	brown shale and siltstone	4.0 - 6.0	1.5 - 2.0	perched	slow or moderately slow	very strongly acid to strongly acid	medium	moderate
WvB	Wharton very stony silt loam	3 to 8	deep, moderately well drained soils on uplands	hills	shale and siltstone	4.0 - 5.0	1.5 - 3.0		slow			