

APPENDIX R
Noise Sensitive Areas

APPENDIX R

**Background Ambient Noise Levels at NSAs within 1.0 Mile of the
Burgettstown Compressor Station**

NSA	Distance and Direction from Compressor Building to NSA (feet)	Measurement Position	Calculated Ambient L_{dn} (dBA)
Burgettstown 1	1,150 S	1	55.4
Burgettstown 2	1,830 W	2	51.4
Burgettstown 3	1,210 NW	3	54.6
Burgettstown 4	4,900 NE	4	56.9

Start Date: December 10, 2014.

Weather: Temperature ranged from 29°F to 37°F, relative humidity ranged from 72% to 92%, wind direction was NW, wind speed ranged from 17 mph to 20 mph, sky condition was cloudy, and ground condition was dry.

Land use: Primarily hilly wooded areas, residential, and industrial.

Noise sources: Local traffic on Point Pleasant Road, distant traffic on Highway 22, hunting activities, cattle, and rustling leaves.

NSA Type: All residences.

APPENDIX R

**Background Ambient Noise Levels at NSAs within 1.0 Mile of the
Cadiz Compressor Station**

NSA	Distance and Direction from Compressor Building to NSA (feet)	Measurement Position	Calculated Ambient L_{dn} (dBA)
Cadiz 1	4,150 N	1	55
Cadiz 2	3,740 NE	2	58
Cadiz 3	4,820 E	3	50.6

Start Date: December 16, 2014.

Weather: Temperature ranged from 25°F to 35°F, relative humidity ranged from 70% to 93%, wind direction was SSW, wind speed ranged from 11 mph to 20 mph, sky condition was cloudy, and ground condition was dry.

Land use: Primarily rolling, grassy hills; secondarily industrial, small airport, and distant neighborhoods.

Noise sources: Local traffic on Freeman Road, birds, and distant construction.

NSA Type: All residences.

APPENDIX R

**Background Ambient Noise Levels at NSAs within 1.0 Mile of the
Clarington Compressor Station**

NSA	Distance and Direction from Compressor Building to NSA (feet)	Measurement Position	Calculated Ambient L_{dn} (dBA)
Clarington 1	1,660 S	1	47.8
Clarington 2	2,460 E	1	47.8
Clarington 3	2,980 N	3	45.4
Clarington 4	3,280 W	4	41.6

Start Date: December 30, 2014.
Weather: Temperature ranged from 21°F to 33°F, relative humidity ranged from 43% to 81%, wind direction was NW, wind speed ranged from 6 mph to 16 mph, sky condition was cloudy, and ground condition was damp.
Land use: Primarily hilly wooded areas.
Noise sources: Traffic on German Ridge Road, creek, and cattle.
NSA Type: All residences.

APPENDIX R

**Background Ambient Noise Levels at NSAs within 1.0 Mile of the
Majorsville Compressor Station**

NSA	Distance and Direction from Compressor Building to NSA (feet)	Measurement Position	Calculated Ambient L_{dn} (dBA)
Majorsville 1	1,090 SE	1	49.8
Majorsville 2	5,380 SE	2	56.3
Majorsville 3	3,220 NW	3	69.6
Majorsville 4	4,150 NE	4	54.9

Start Date: December 29, 2014.
Weather: Temperature ranged from 25°F to 38°F, relative humidity ranged from 54% to 89%, wind direction was NNW, wind speed ranged from 6 mph to 13 mph, sky condition was cloudy, and ground condition was damp.
Land use: Primarily hilly wooded areas; secondarily residential and industrial.
Noise sources: Occasional traffic from Ohio County Mine, local traffic, and existing natural gas facilities.
NSA Type: All residences.

APPENDIX R

Background Ambient Noise Levels at NSAs within 1.0 Mile of the Seneca Compressor Station

NSA	Distance and Direction from Compressor Building to NSA (feet)	Measurement Position	Calculated Ambient L_{dn} (dBA)
Seneca 1	1,230 SW	1	58.5
Seneca 2	2,600 S	2	66.6
Seneca 3	3,290 E	3	58.1
Seneca 4	1,020 NE	4	41.4
Seneca 5	2,500 N	4	41.4
Seneca 6	1,090 NW	1	58.5
Seneca 7	740 W	1	58.5

Start Date: December 31, 2014.
Weather: Temperature ranged from 14°F to 30°F, relative humidity ranged from 38% to 80%, wind direction was WSW, wind speed ranged from 9 mph to 16 mph, sky condition was cloudy, and ground condition was damp.
Land use: Primarily hilly wooded areas, residential, and commercial.
Noise sources: Local traffic from Batesville and Gladys roads, birds, cattle, and dogs.
NSA Type: All residences.

APPENDIX R

Background Ambient Noise Levels at NSAs within 1.0 Mile of the Sherwood Compressor Station

NSA	Distance and Direction from Compressor Building to NSA (feet)	Measurement Position	Calculated Ambient L_{dn} (dBA)
Sherwood 1	3,100 SE	3	41.5
Sherwood 2	1,430 S	3	41.5
Sherwood 3	1,410 SW	3	41.5
Sherwood 4	1,230 W	3	41.5
Sherwood 5	4,900 NW	5	53.2

Start Date: December 10, 2014.
Weather: Temperature ranged from 28°F to 30°F, relative humidity ranged from 69% to 96%, wind direction was WNW, wind speed ranged from 11 mph to 16 mph, sky condition was cloudy, and ground condition was damp.
Land use: Primarily hilly wooded areas; secondarily heavy industrial and residential.
Noise sources: Traffic from Highway 50, birds, and insects.
NSA Type: All residences.

APPENDIX R

**Background Ambient Noise Levels at NSAs within 1.0 Mile of the
Mainline 1 Compressor Station**

NSA	Distance and Direction from Compressor Building to NSA (feet)	Measurement Position	Calculated Ambient L_{dn} (dBA)
Mainline 1-1	830 S	1	61.7
Mainline 1-2	930 S	1	61.7
Mainline 1-3	1,460 SE	1	61.7
Mainline 1-4	2,200 NE	4	59.5
Mainline 1-5	1,360 SW	1	61.7

Start Date: December 16, 2014.

Weather: Temperature ranged from 29°F to 37°F, relative humidity ranged from 82% to 93%, wind direction was SSW, wind speed ranged from 7 mph to 17 mph, sky condition was cloudy, and ground condition was damp.

Land use: Primarily rolling, wooded hills; secondarily residential and undeveloped.

Noise sources: Traffic on County Road 22, birds, and rustling leaves.

NSA Type: All residences.

APPENDIX R

**Background Ambient Noise Levels at NSAs within 1.0 Mile of the
Mainline 2 Compressor Station**

NSA	Distance and Direction from Compressor Building to NSA (feet)	Measurement Position	Calculated Ambient L_{dn} (dBA)
Mainline 2-1	1,500 SE	1	62.5
Mainline 2-2	1,320 NE	2	56
Mainline 2-3	2,450 N	3	53.6
Mainline 2-3	3,690 SW	1	62.5

Start Date: December 18, 2014.

Weather: Temperature ranged from 27°F to 28°F, relative humidity ranged from 78% to 92%, wind direction was W, wind speed ranged from 5 to 10 mph, sky condition was cloudy, and ground condition was damp.

Land use: Primarily relatively flat residential, agricultural, and undeveloped.

Noise sources: Traffic on Highway 30 to the south and County Road 149, birds, and rustling leaves.

NSA Type: All residences.

APPENDIX R

**Background Ambient Noise Levels at NSAs within 1.0 Mile of the
Mainline 3 Compressor Station**

NSA	Distance and Direction from Compressor Building to NSA (feet)	Measurement Position	Calculated Ambient L_{dn} (dBA)
Mainline 3-1	760 N	1	49.5
Mainline 3-2	1,360 NW	1	49.5
Mainline 3-3	2,230 W	3	49.9
Mainline 3-4	3,690 SW	3	49.9
Mainline 3-5	4,830 S	5	57.1
Mainline 3-6	5,220 N	5	57.1
Mainline 3-7	3,340 N	7	47.4

Start Date: December 17, 2014.

Weather: Temperature ranged from 26°F to 37°F, relative humidity ranged from 75% to 100%, wind direction was WSW, wind speed ranged from 12 mph to 21 mph, sky condition was cloudy, and ground condition was damp.

Land use: Primarily relatively flat residential and agricultural.

Noise sources: Local traffic on Albaugh, New Washington, Brillhart, and Ross roads; birds.

NSA Type: All residences.

APPENDIX R

**Background Ambient Noise Levels at NSAs within 1.0 Mile of the
Defiance Compressor Station**

NSA	Distance and Direction from Compressor Building to NSA (feet)	Measurement Position	Calculated Ambient L_{dn} (dBA)
Defiance 1	1,990 N	1	68.9
Defiance 2	710 N	2	71.6
Defiance 3	1,760 N	4	59.4
Defiance 4	1,640 N	4	59.4

Start Date: December 16, 2014.

Weather: Temperature ranged from 21°F to 38°F, relative humidity ranged from 81% to 100%, wind direction was SW, wind speed ranged from 11 mph to 22 mph, sky condition was cloudy, and ground condition was damp.

Land use: Primarily relatively flat residential, commercial, industrial, and agricultural.

Noise sources: Local traffic on Banner School Road and SR 66N; birds; and light wind.

NSA Type: All residences.

