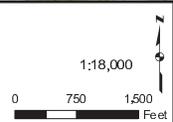


**APPENDIX N-1**  
**Noise Sensitive Areas Associated with the Mountaineer XPress Project**





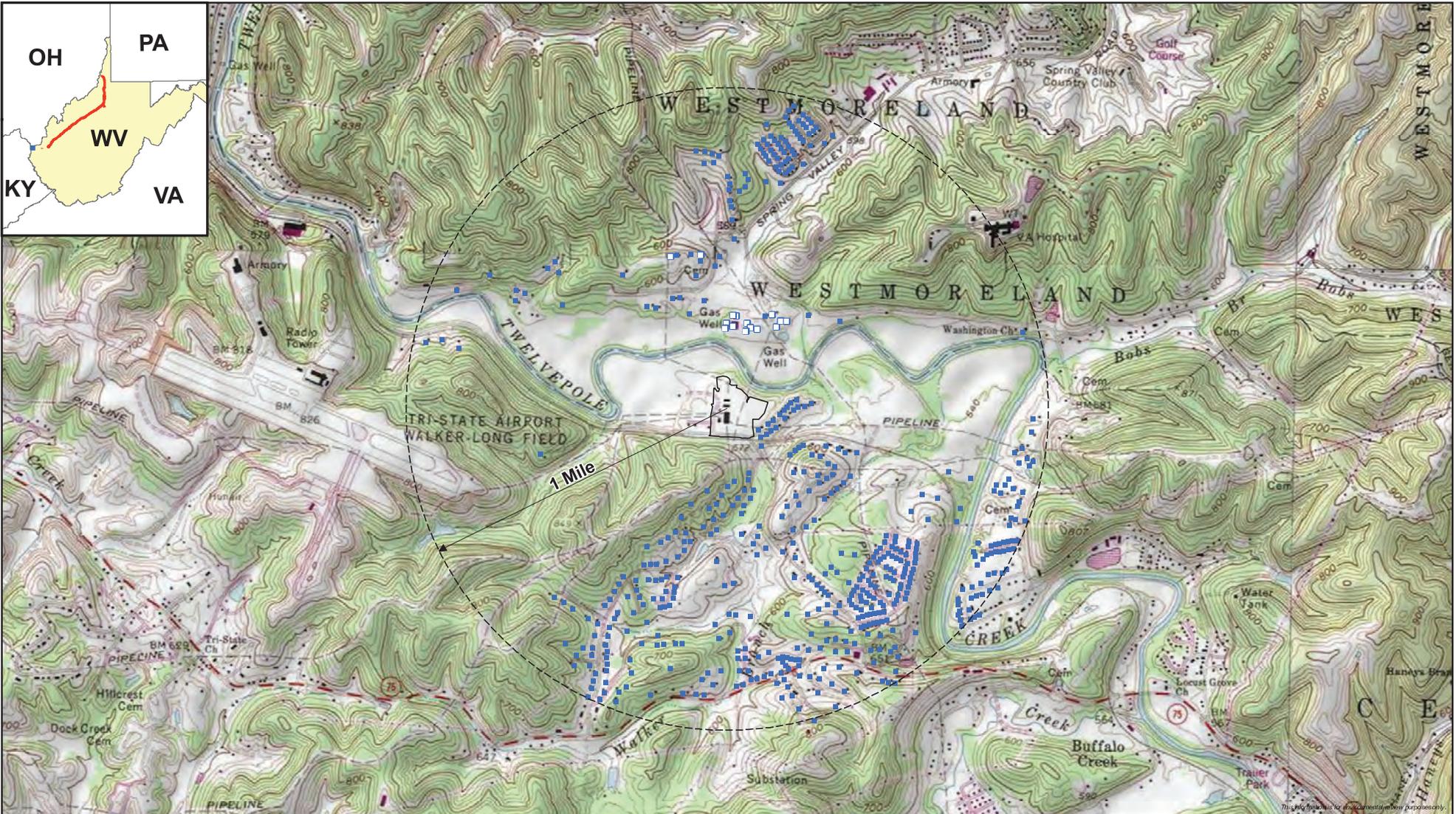
- 1 Mile Radius
- House or Mobile Home
- Non-Residential Building
- Site Boundary



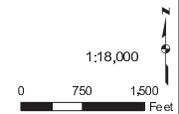
**Noise Sensitive Areas within a 1 Mile Radius of the Existing Lone Oak Compressor Station**  
**Marshall County, West Virginia**  
 Mountaineer XPress Project  
 Columbia Gas Transmission

File: \_NSAs | REVISED: 05/11/2016 | SCALE: 1:18,000 when printed at 11x17

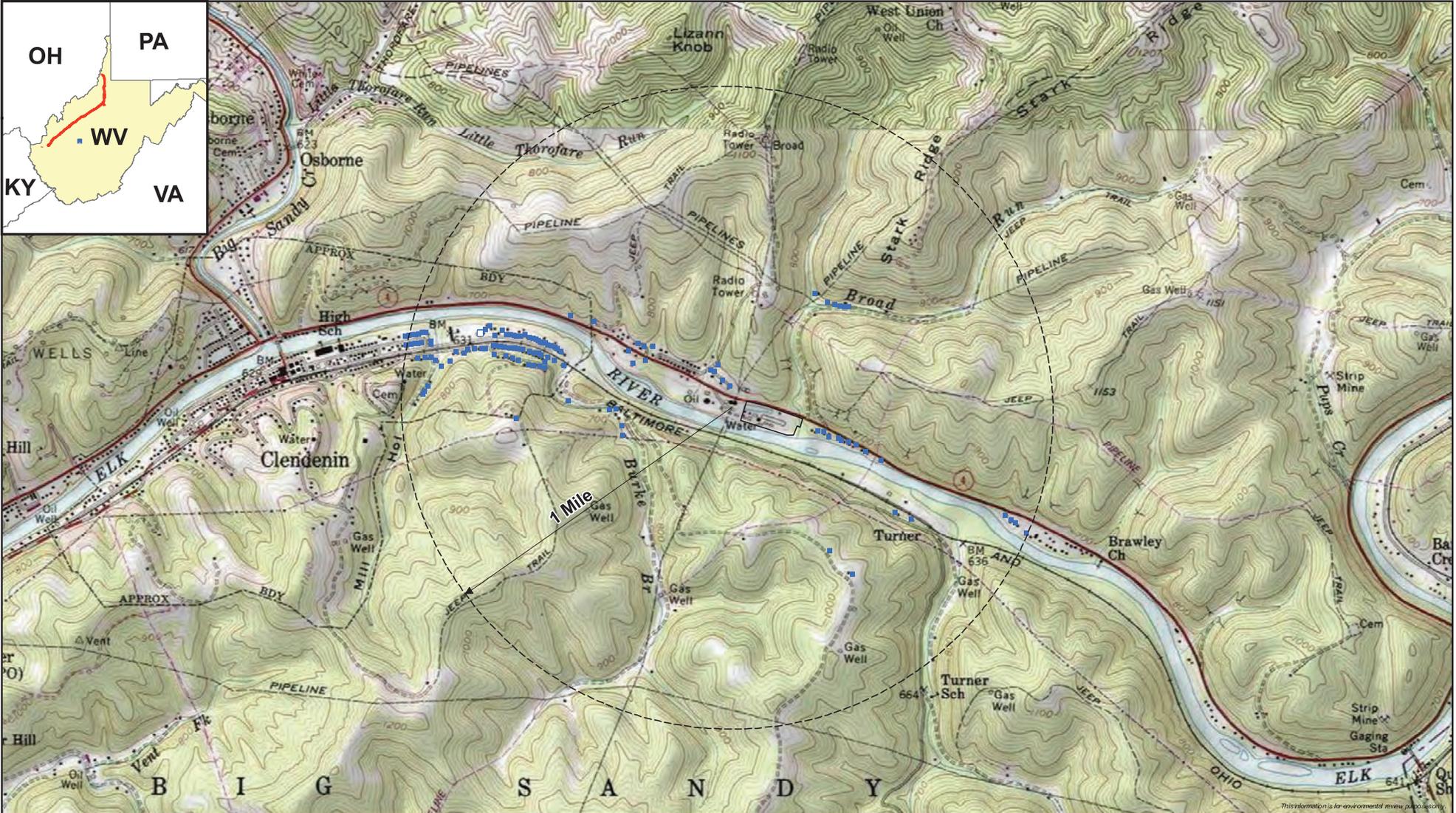
DRAWN BY: TG



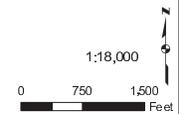
- 1 Mile Radius
- House or Mobile Home
- Non-Residential Building
- Site Boundary



**Noise Sensitive Areas within a 1 Mile Radius of the Existing Ceredo Compressor Station**  
**Wayne County, West Virginia**  
 Mountaineer XPress Project  
 Columbia Gas Transmission



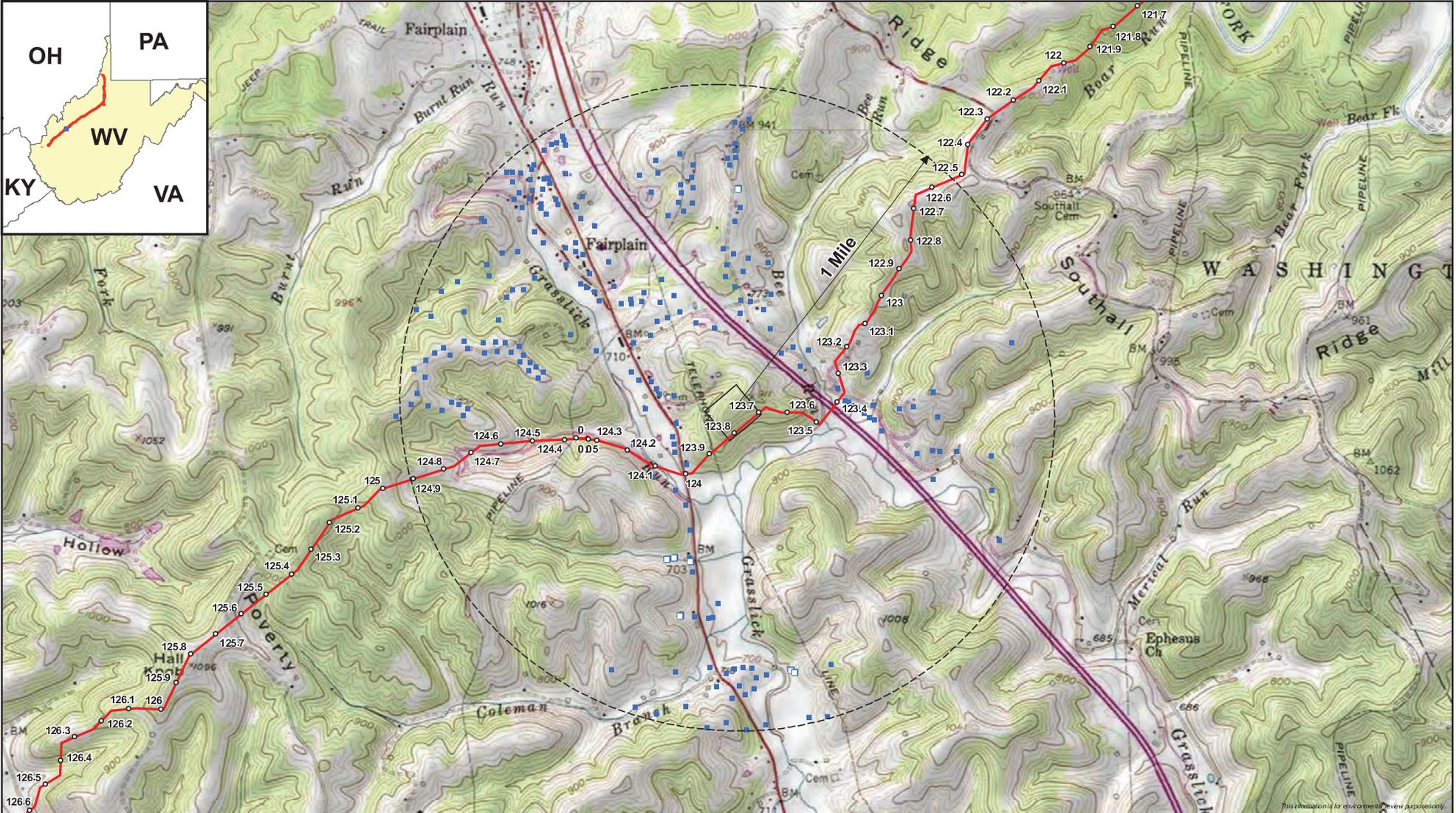
- 1 Mile Radius
- House or Mobile Home
- Non-Residential Building
- Site Boundary



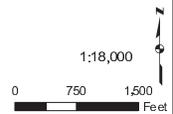
**Noise Sensitive Areas within a 1 Mile Radius of the Existing Elk River Compressor Station**  
**Kanawha County, West Virginia**  
 Mountaineer XPress Project  
 Columbia Gas Transmission

File: \_NSAs | REVISED: 05/11/2016 | SCALE: 1:18,000 when printed at 11x17

DRAWN BY: TG



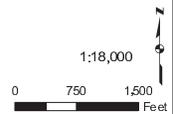
- 1 Mile Radius
- House or Mobile Home
- Non-Residential Building
- Milepost
- Proposed Centerline
- ▭ Site Boundary



**Noise Sensitive Areas within a 1 Mile Radius of the**  
**Proposed Mount Olive Compressor Station**  
**Jackson County, West Virginia**  
 Mountaineer XPress Project  
 Columbia Gas Transmission



- 1 Mile Radius
- Site Boundary
- Proposed Centerline
- House or Mobile Home
- Non-Residential Building
- Milepost



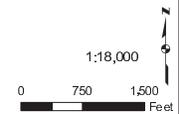
**Noise Sensitive Areas within a 1 Mile Radius of the  
Proposed Sherwood Compressor Station**  
**Doddridge County, West Virginia**  
 Mountaineer XPress Project  
 Columbia Gas Transmission

File: \_NSAs | REVISED: 05/11/2016 | SCALE: 1:18,000 when printed at 11x17

DRAWN BY: TG



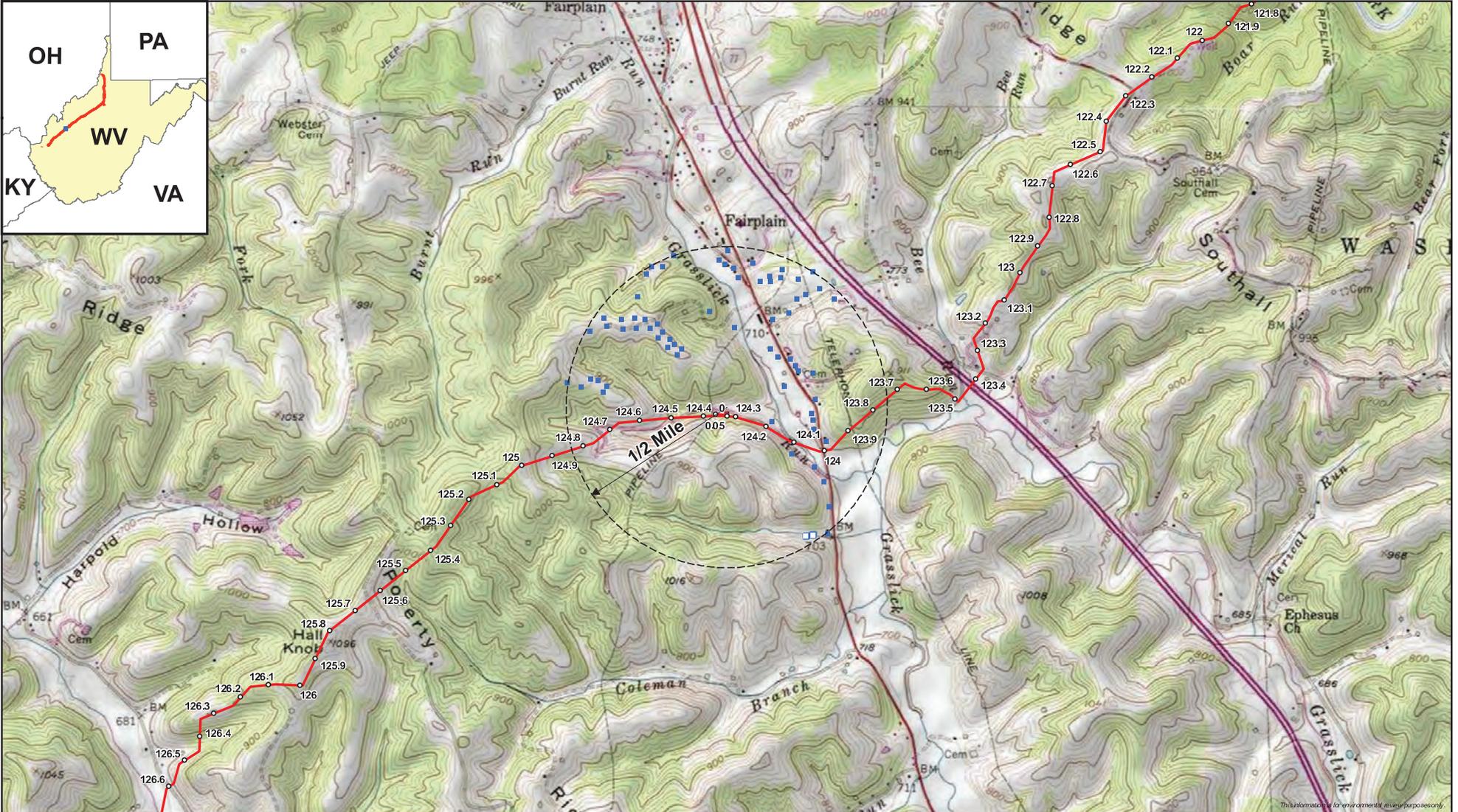
- 1 Mile Radius
- Site Boundary
- House or Mobile Home
- Milepost
- Proposed Centerline



**Noise Sensitive Areas within a 1 Mile Radius of the  
Proposed White Oak Compressor Station  
Calhoun County, West Virginia  
Mountaineer XPress Project  
Columbia Gas Transmission**

File: \_NSAs | REVISED: 05/11/2016 | SCALE: 1:18,000 when printed at 11x17

DRAWN BY: TG



   1/2 Mile Radius      — Proposed Centerline  
■ House or Mobile Home         Site Boundary  
□ Non-Residential Building  
○ Milepost

1:18,000  
 0    750    1,500  
 Feet

**Noise Sensitive Areas within a 1/2 Mile Radius of the  
 Proposed Ripley Regulator Station  
 Jackson County, West Virginia  
 Mountaineer XPress Project  
 Columbia Gas Transmission**

File: \_NSAs | REVISED: 05/11/2016 | SCALE: 1:18,000 when printed at 11x17

DRAWN BY: TG



1/2 Mile Radius	Proposed Centerline
House or Mobile Home	Site Boundary
Non-Residential Building	
Milepost	

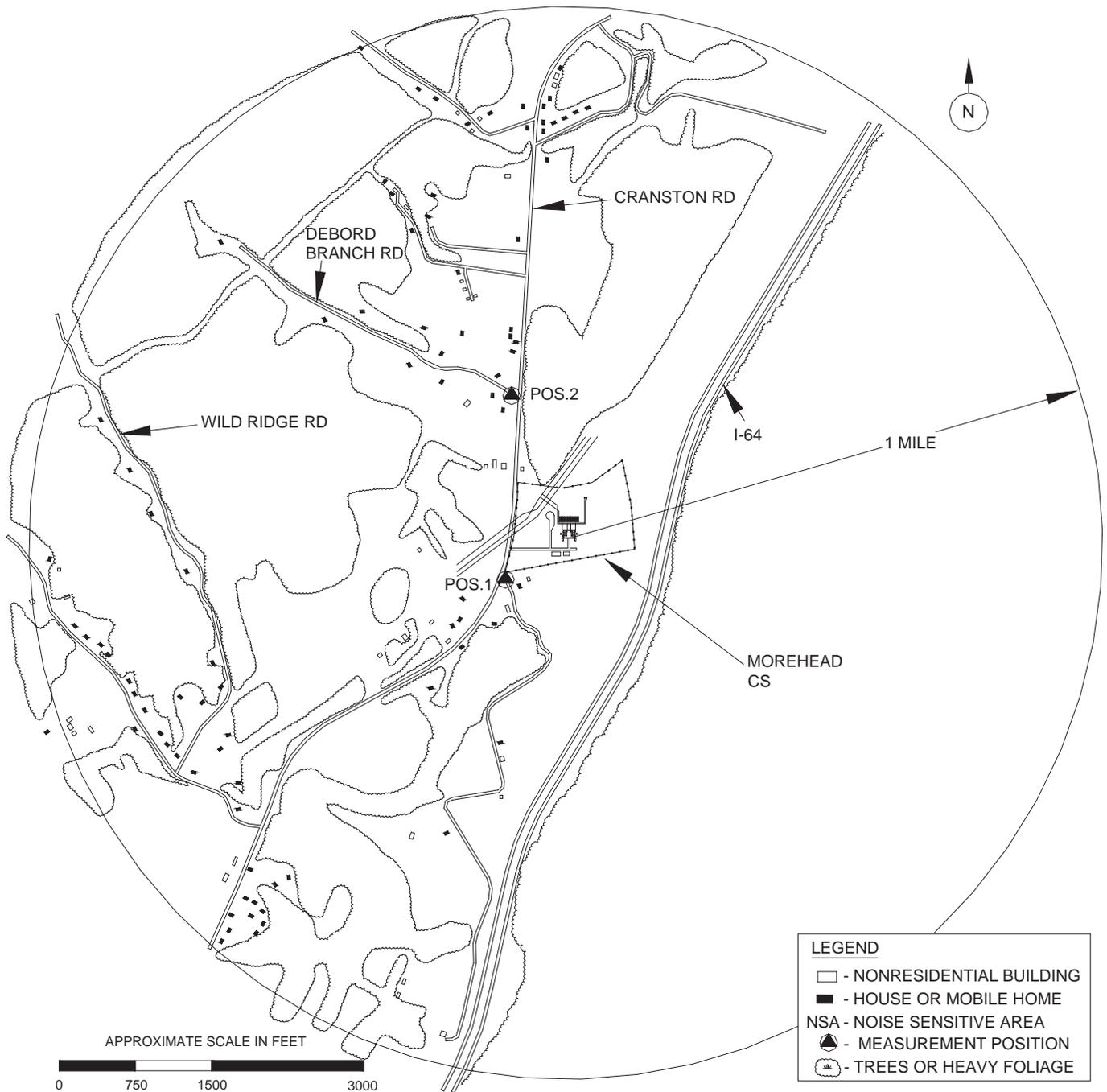
1:18,000

0 750 1500 Feet

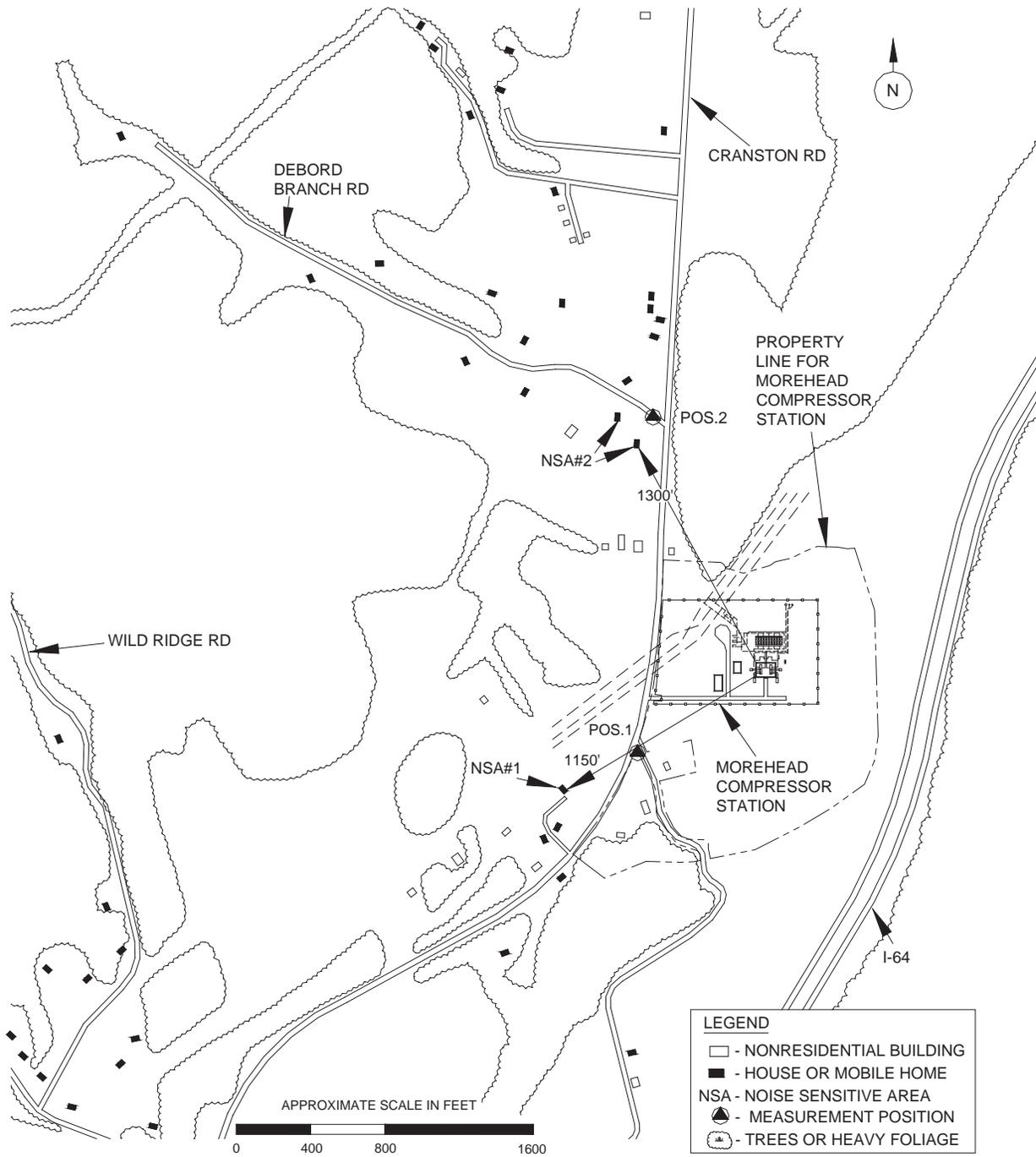
**Noise Sensitive Areas within a 1/2 Mile Radius of the  
Proposed Saunders Creek Regulator Station  
Cabell County, West Virginia  
Mountaineer XPress Project  
Columbia Gas Transmission**

**APPENDIX N-2**  
**Noise Sensitive Areas Associated with the Gulf XPress Project**

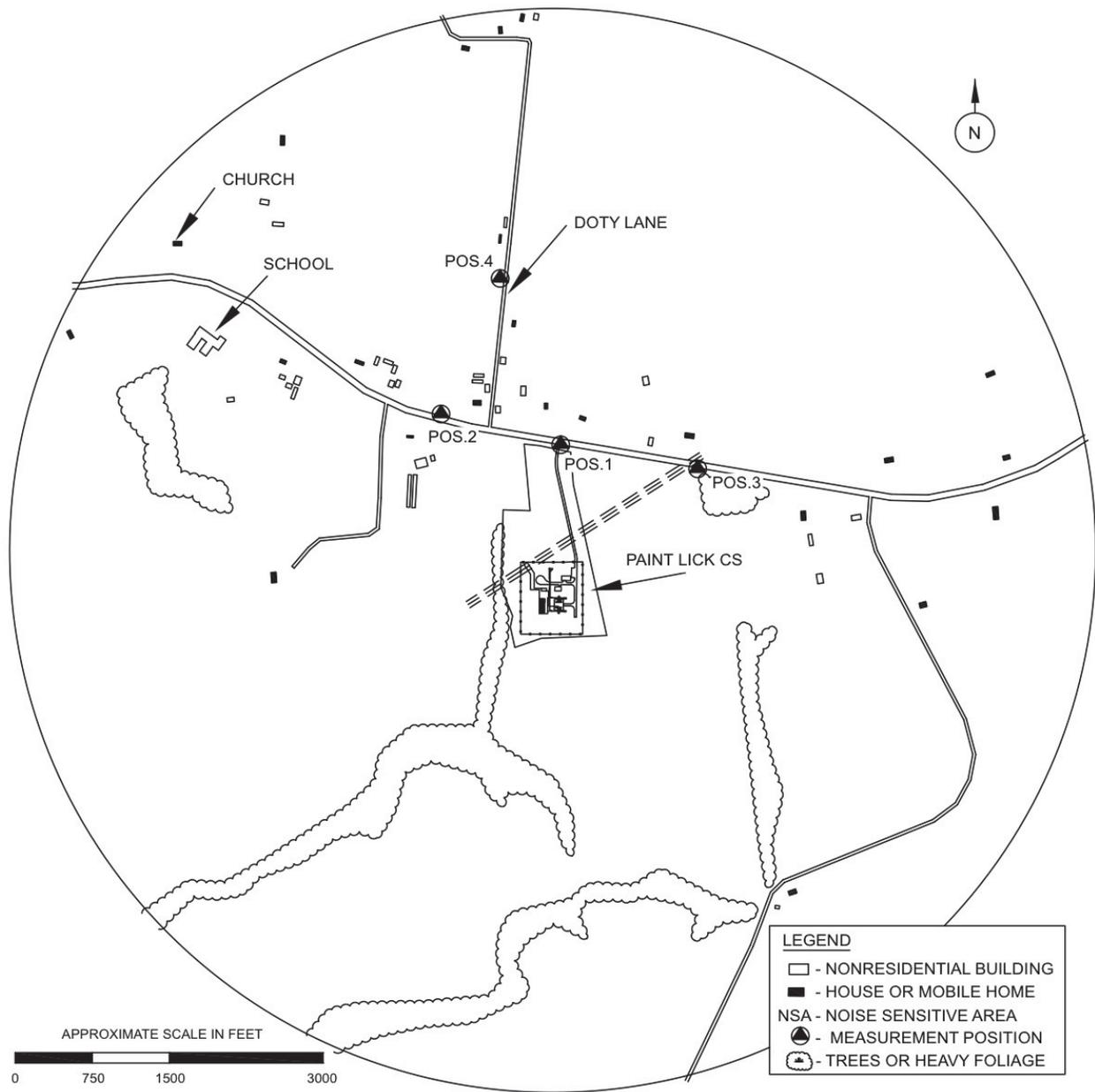




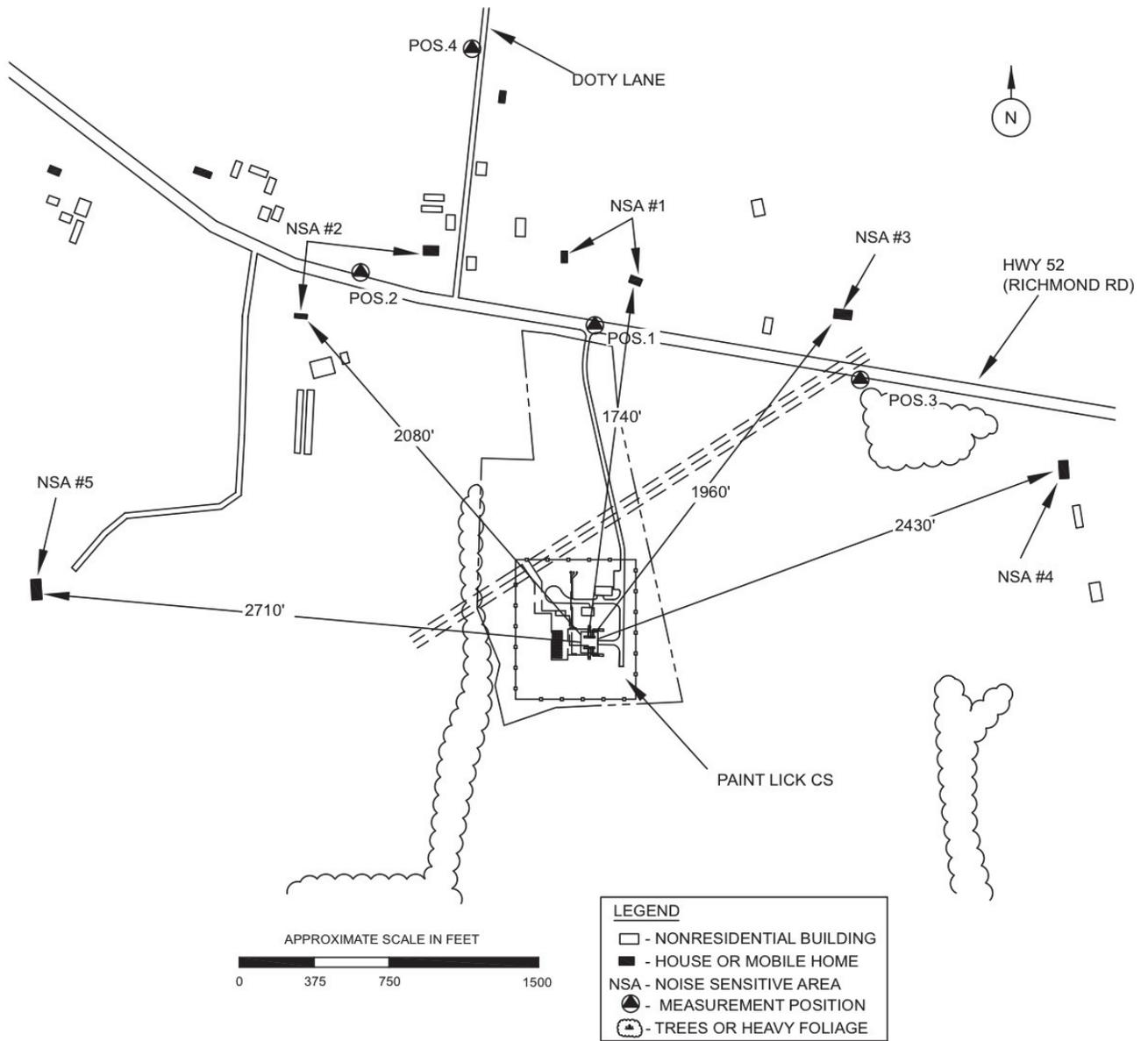
**Figure 1:** Morehead Compressor Station (GXP Project): General Area Layout around the Station showing the NSAs within 1 Mile of the Station Site and Other Areas of Interest.



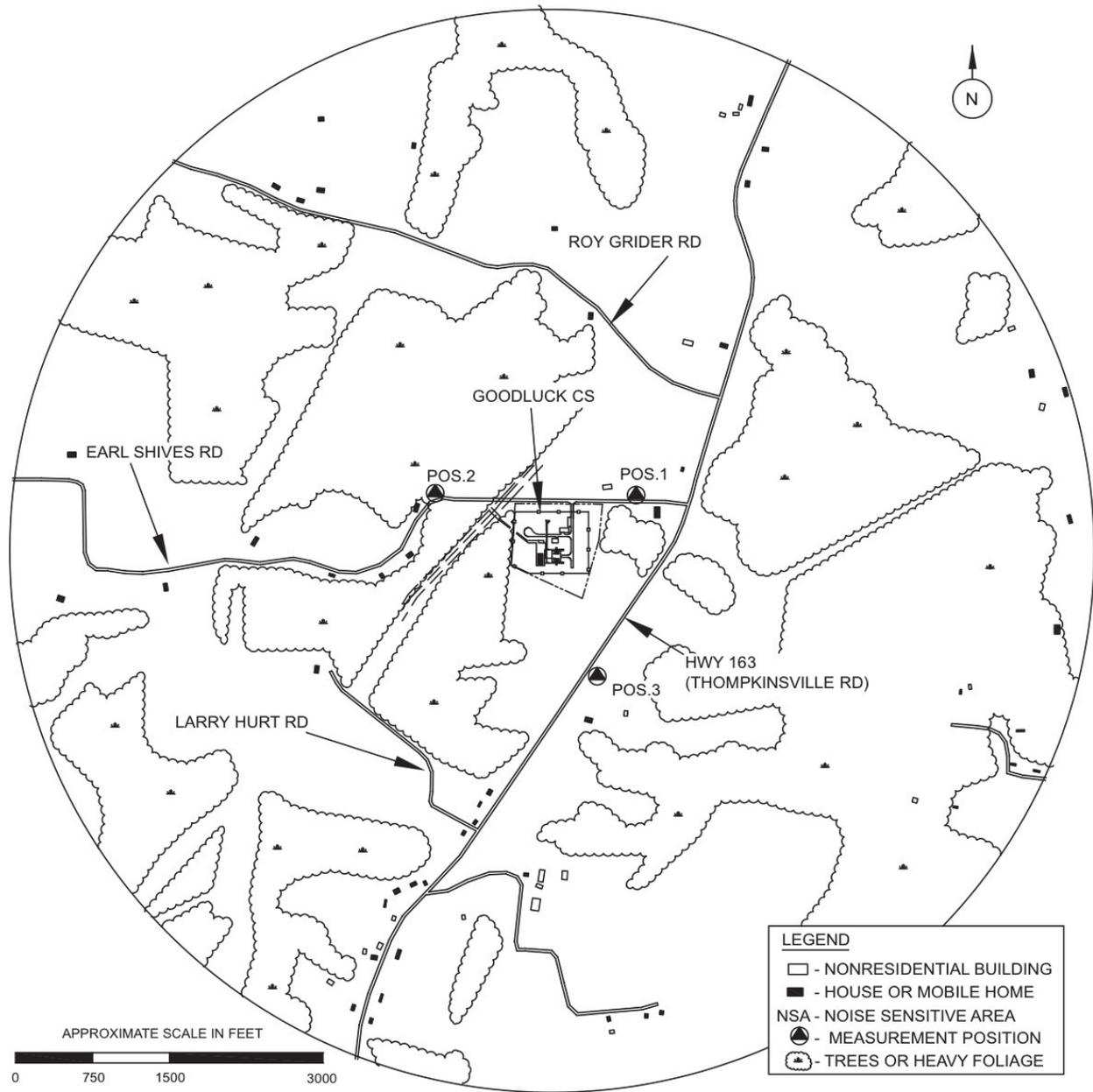
**Figure 2:** Morehead Compressor Station (GXP Project): Layout showing the Identified Closest NSAs, Chosen Sound Measurement Positions near the Closest NSAs and Conceptual Layout of Station Equipment and Buildings.



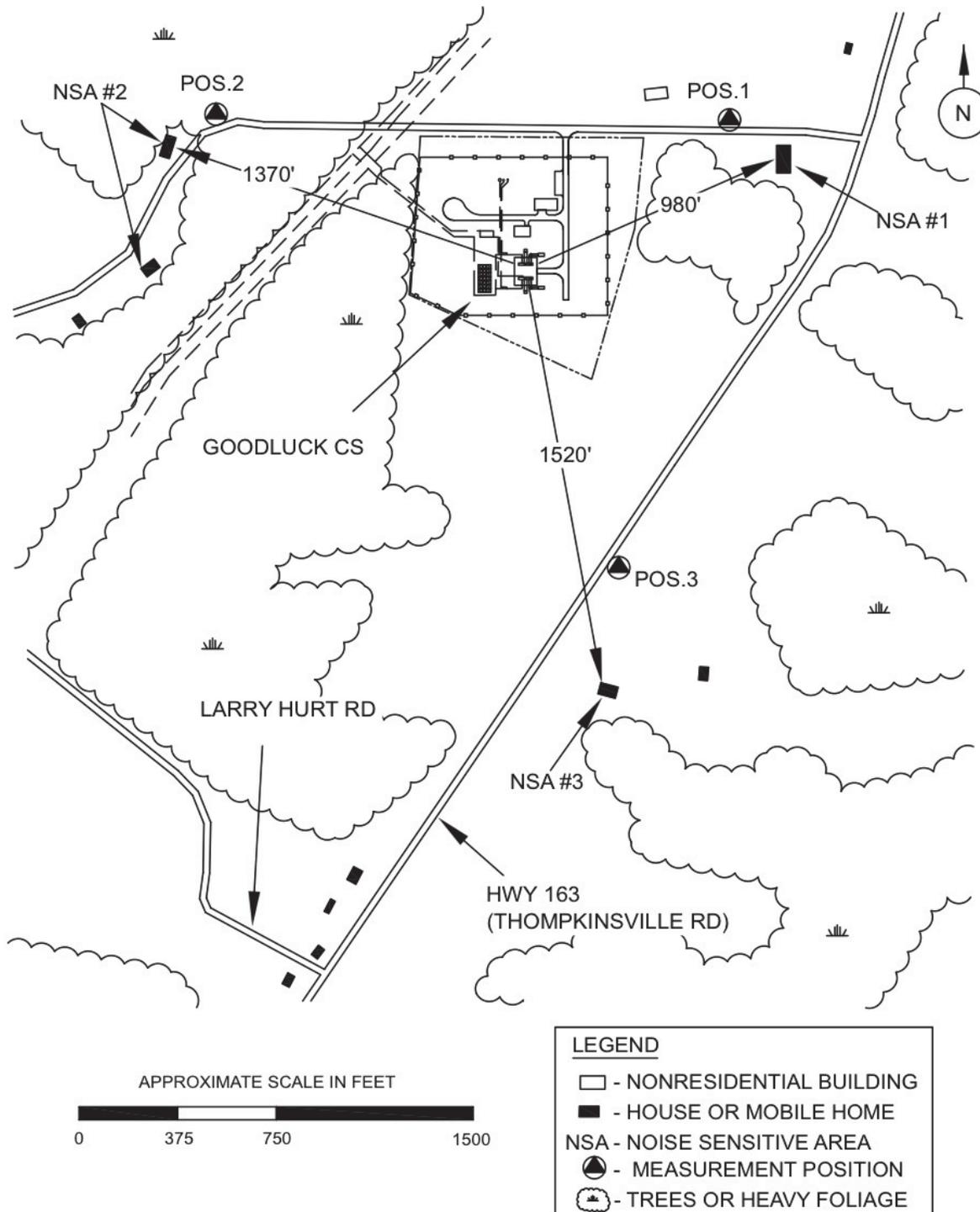
**Figure 1:** Paint Lick Compressor Station (GXP Project): General Area Layout around the Station showing the NSAs within 1 Mile of the Station Site and Other Areas of Interest.



**Figure 2:** Paint Lick Compressor Station (GXP Project): Layout showing the Identified Closest NSAs, Chosen Sound Measurement Positions near the Closest NSAs and Conceptual Layout of Station Equipment and Buildings.



**Figure 1:** Goodluck Compressor Station (GXP Project): General Area Layout around the Station showing the NSAs within 1 Mile of the Station Site and Other Areas of Interest.



**Figure 2:** Goodluck Compressor Station (GXP Project): Layout showing the Identified Closest NSAs, Chosen Sound Measurement Positions near the Closest NSAs and Conceptual Layout of Station Equipment and Buildings.

Columbia Pipeline Group – Grayson Compressor Station

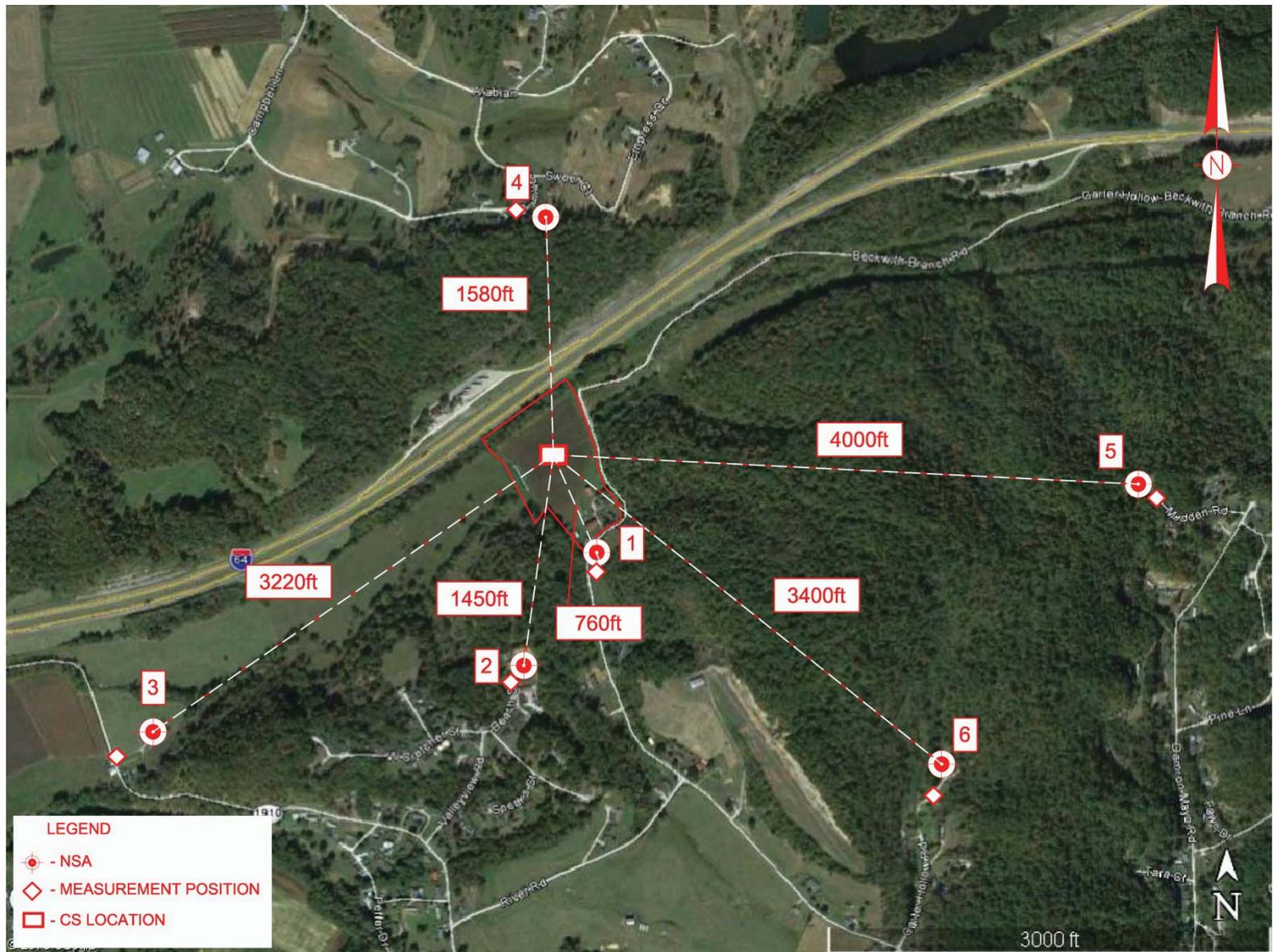
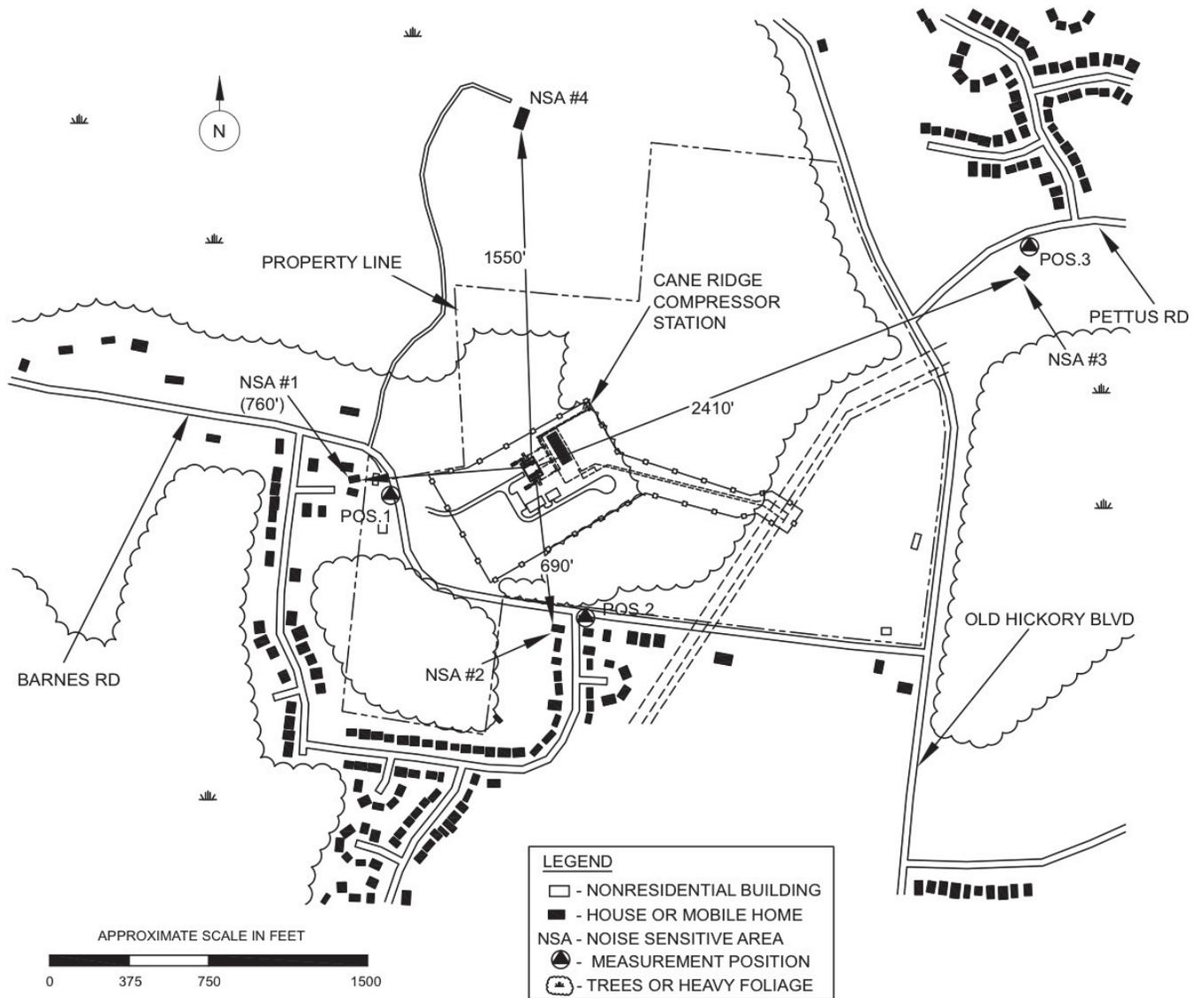


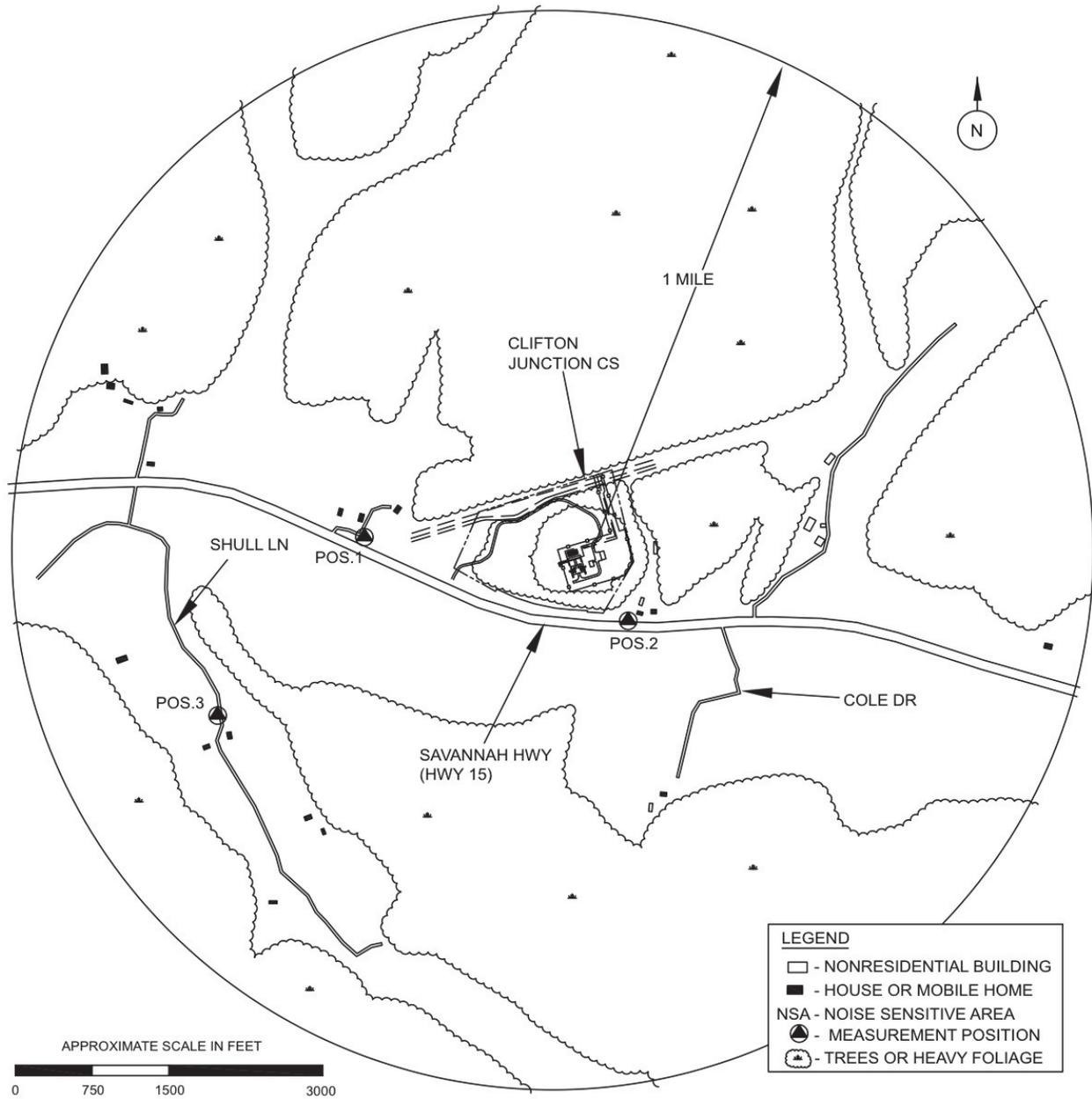
Figure A NSA Distances and Directions, Referenced from Proposed Compressor Building Location.



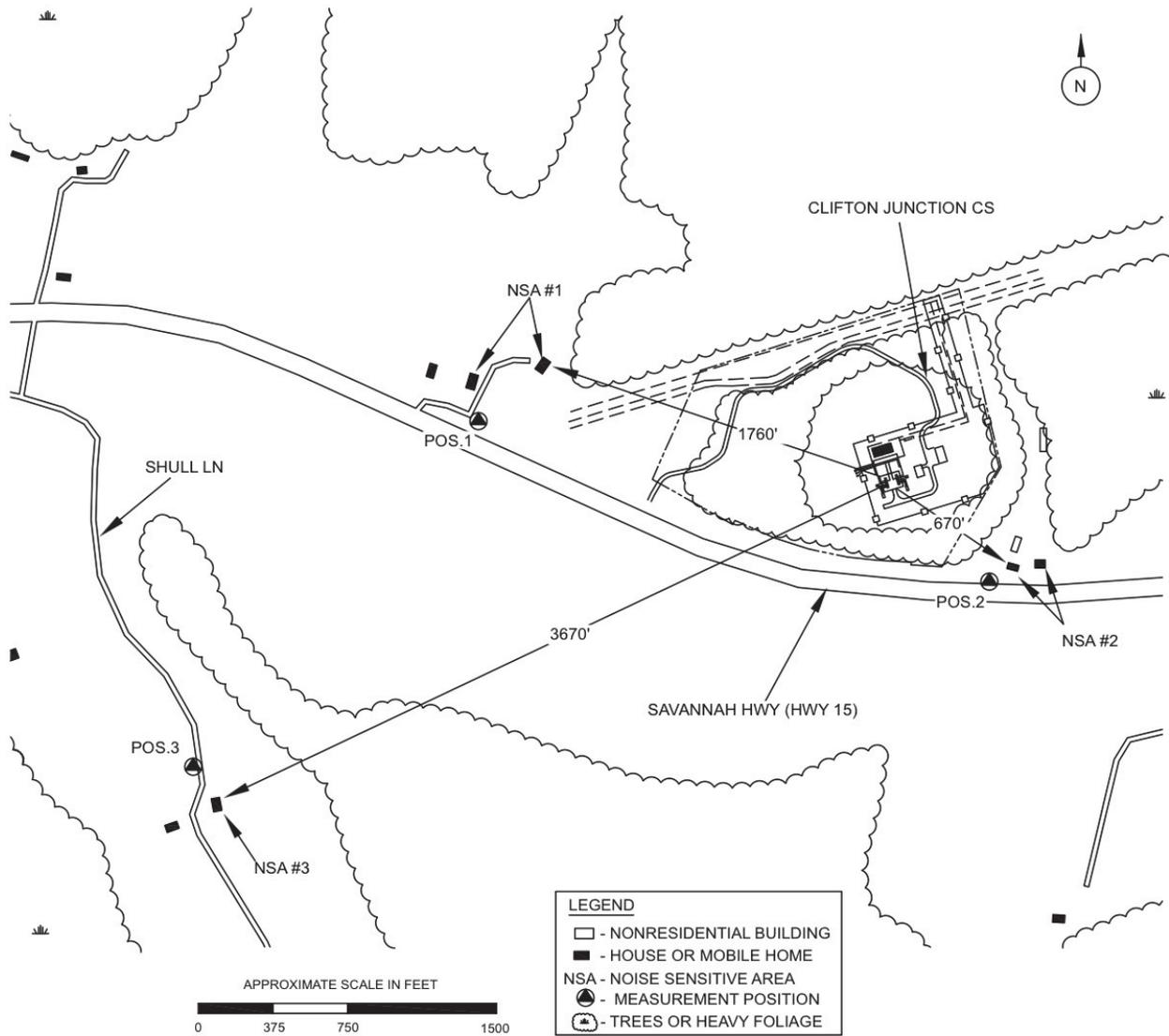
**Figure 1:** Cane Ridge Compressor Station (GXP Project): General Area Layout around the Station showing the NSAs within 1 Mile of the Station Site and Other Areas of Interest.



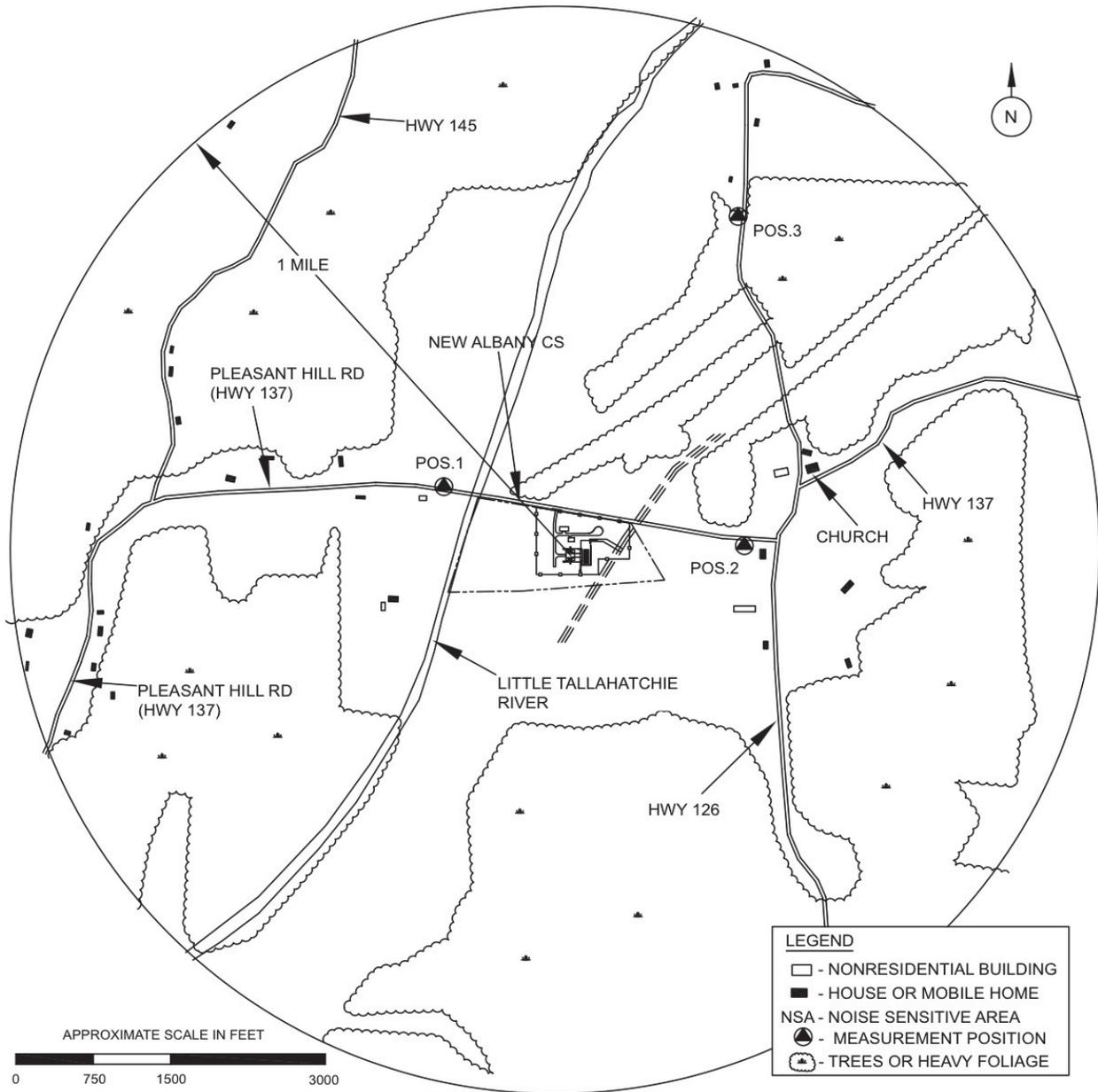
**Figure 2:** Cane Ridge Compressor Station (GXP Project): Layout showing the Identified Closest NSAs, Chosen Sound Measurement Positions near the Closest NSAs and Conceptual Layout of Station Equipment and Buildings.



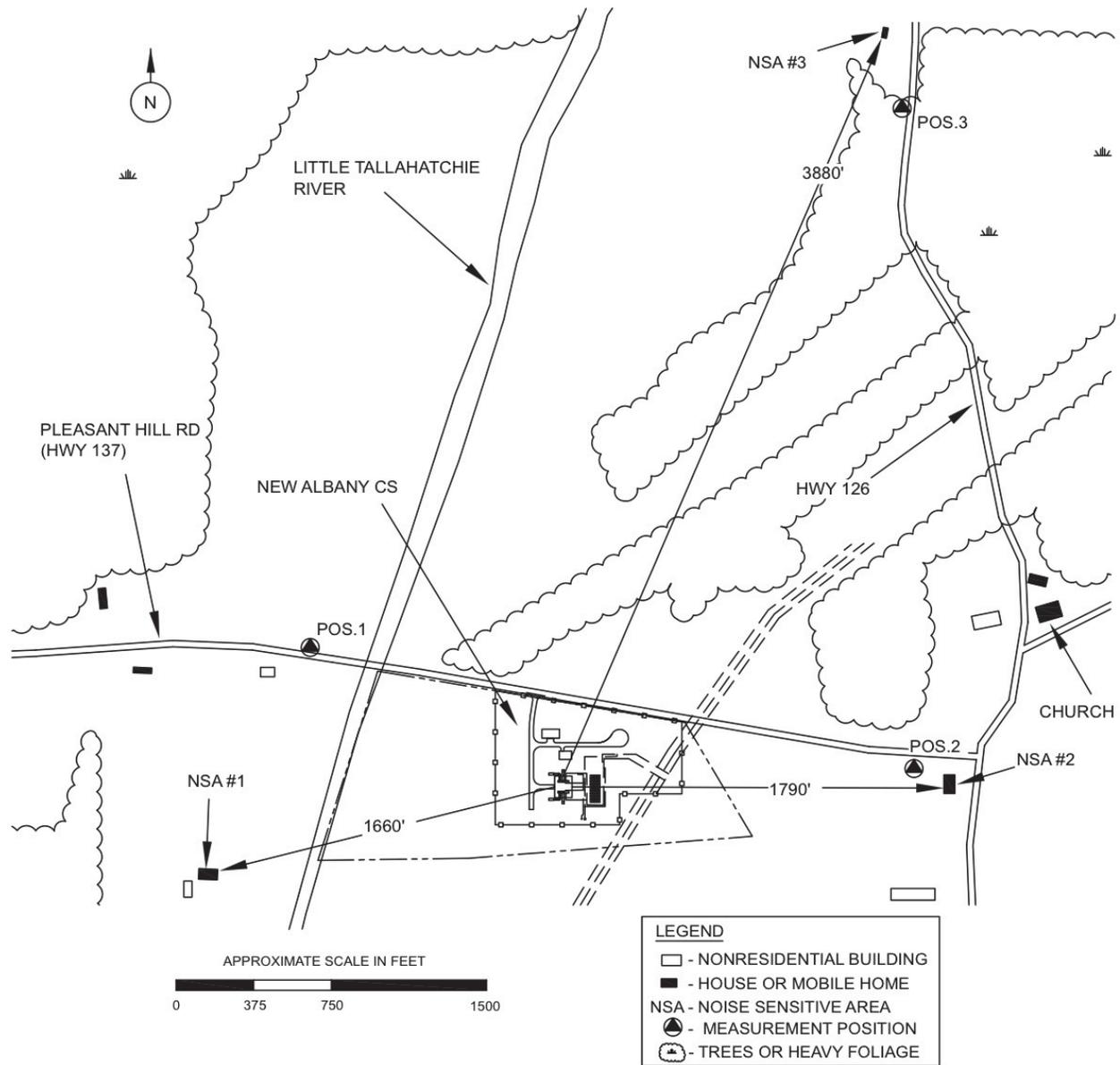
**Figure 1:** Clifton Junction Compressor Station (GXP Project): General Area Layout around the Station showing the NSAs within 1 Mile of the Station Site and Other Areas of Interest.



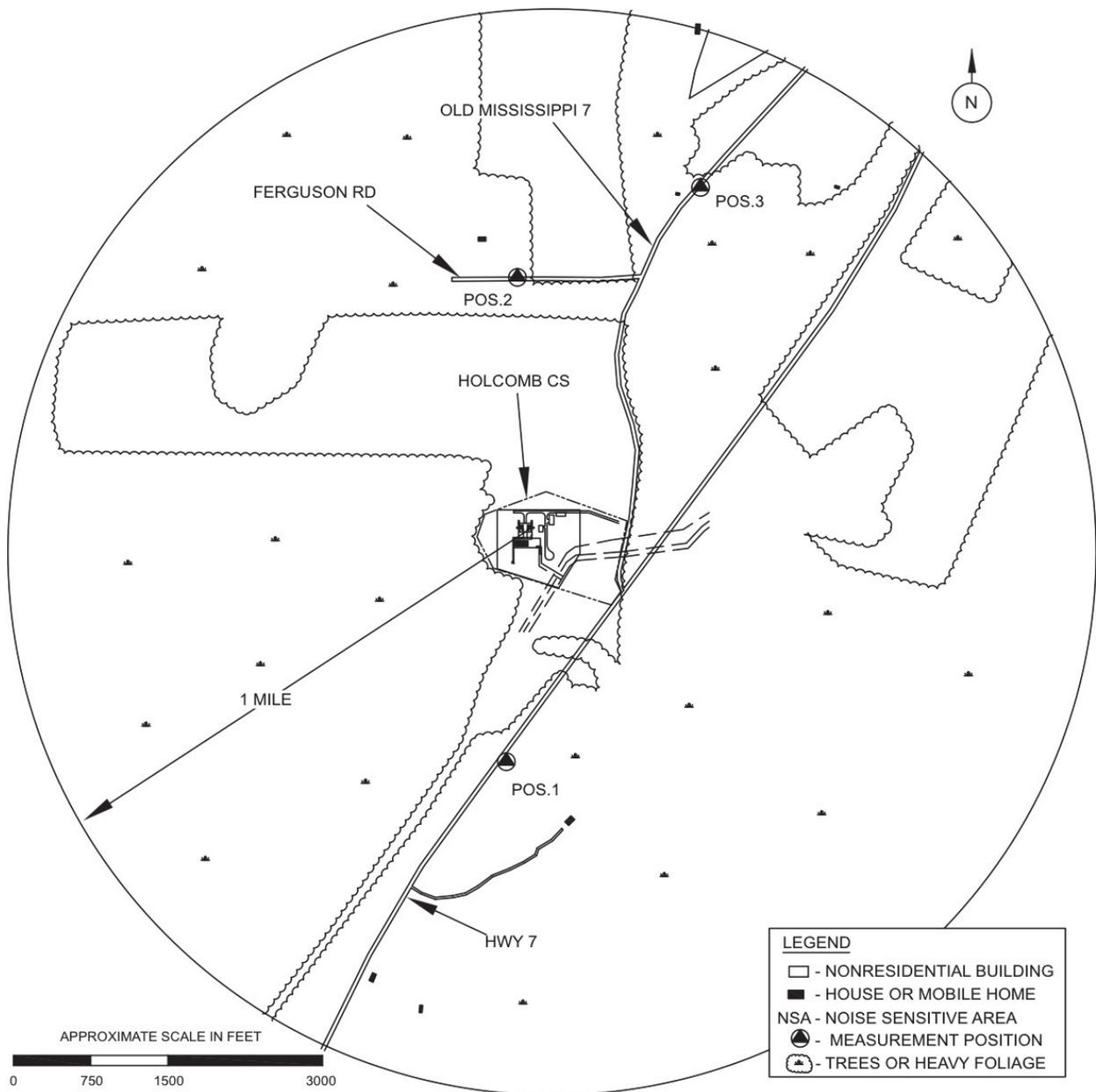
**Figure 2:** Clifton Junction Compressor Station (GXP Project): Layout showing the Identified Closest NSAs, Chosen Sound Measurement Positions near the Closest NSAs and Conceptual Layout of Station Equipment and Buildings.



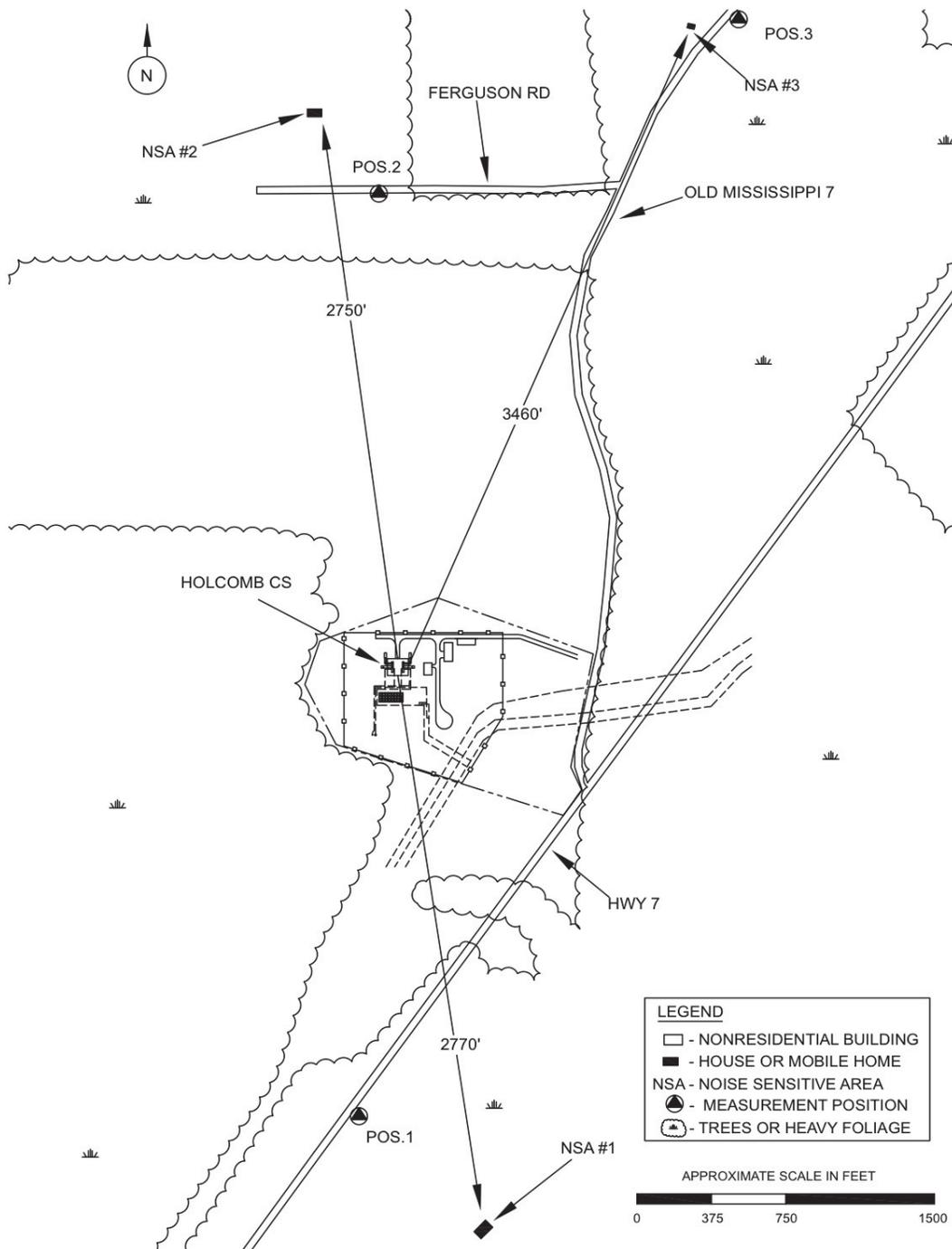
**Figure 1:** New Albany Compressor Station (GXP Project): General Area Layout around the Station showing the NSAs within 1 Mile of the Station Site and Other Areas of Interest.



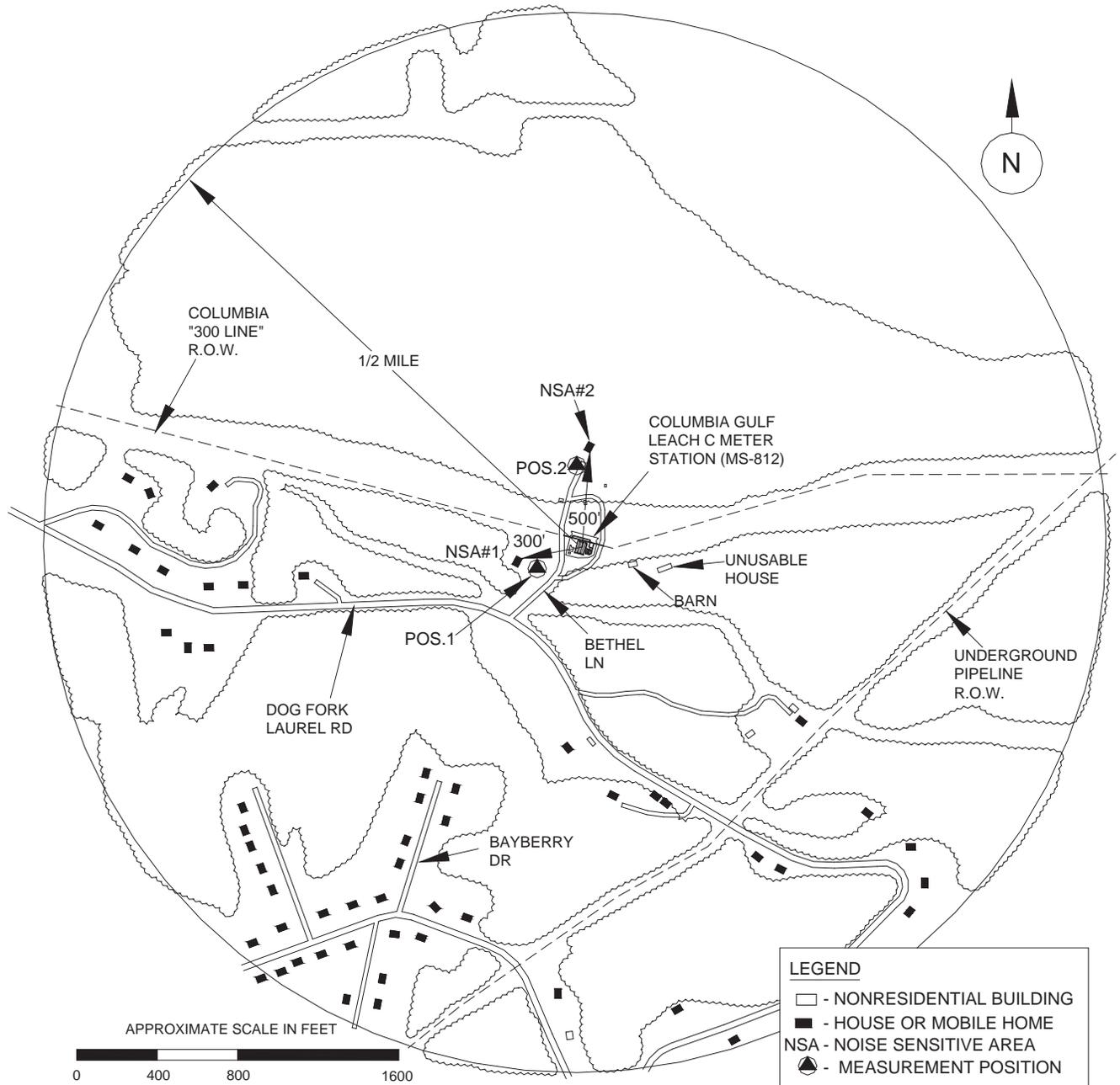
**Figure 2:** New Albany Compressor Station (GXP Project): Layout showing the Identified Closest NSAs, Chosen Sound Measurement Positions near the Closest NSAs and Conceptual Layout of Station Equipment and Buildings.



**Figure 1:** Holcomb Compressor Station (GXP Project): General Area Layout around the Station showing the NSAs within 1 Mile of the Station Site and Other Areas of Interest.



**Figure 2:** Holcomb Compressor Station (GXP Project): Layout showing the Identified Closest NSAs, Chosen Sound Measurement Positions near the Closest NSAs and Conceptual Layout of Station Equipment and Buildings.



**Figure 1:** GXP Project and Leach C M&R Station: Area Layout showing NSAs within ½ Mile of the M&R Station Site, Identified Closest NSAs and the Chosen Sound Measurement Positions near the Closest NSAs.

**APPENDIX O**  
**References**



**APPENDIX O - REFERENCES**

- AEP West Virginia Transmission Company. 2016. Southeast Cabell County Area Improvements. Website: <http://www.aeptransmission.com/westvirginia/SECabell/>. Accessed August 2016.
- Allen, Williford & Seale, Inc. 2014. Pipeline Impact Study: Study of a Williams Natural Gas Pipeline on Residential Real Estate: Saddle Ridge Subdivision, Dallas Township, Luzerne County, Pennsylvania.
- American Council for an Energy-Efficient Economy (ACEEE). 2015. State and Local Policy Database. Website: <http://database.aceee.org/state/local-government-summary>.
- Anderson, P.G., C.G.J. Fraikin, and T.J. Chandler. 1995. Effects of natural gas pipeline construction on a coldwater stream ecosystem. Prepared for TransCanada Pipelines Limited by B.A.R. Environmental Inc. May 1995. 86 pp. + 3 Append.
- Antero Resources. 2016. Antero Announces 60,000 Barrel per Day Advanced Wastewater Treatment Complex. Website: <http://investors.anteroresources.com/investors-relations/press-releases/press-release-details/2015/Antero-Announces-60000-Barrel-per-Day-Advanced-Wastewater-Treatment-Complex/default.aspx>. Accessed July 2016.
- Applied Geology and Environmental Science (AGES). 2015a. Phase I Environmental Site Assessment Report, Proposed Cane Ridge Compressor Station Site.
- Applied Geology and Environmental Science (AGES). 2015b. Phase I Environmental Site Assessment Report, Proposed Clifton Junction Compressor Station Site.
- Applied Geology and Environmental Science (AGES). 2015c. Phase I Environmental Site Assessment Report, Proposed Goodluck Compressor Station Site.
- Applied Geology and Environmental Science (AGES). 2015d. Phase I Environmental Site Assessment Report, Proposed Holcomb Compressor Station Site.
- Applied Geology and Environmental Science (AGES). 2015e. Phase I Environmental Site Assessment Report, Proposed Morehead Compressor Station Site.
- Applied Geology and Environmental Science (AGES). 2015f. Phase I Environmental Site Assessment Report, Proposed New Albany Compressor Station Site.
- Applied Geology and Environmental Science (AGES). 2015g. Phase I Environmental Site Assessment Report, Proposed Paint Lick Compressor Station Site.
- Atlantic Coast Joint Venture (ACJV). 2016. BCRs in the Atlantic Coast Joint Venture. Website: <http://acjv.org/planning/bird-conservation-regions/>. Accessed September 2016.
- BirdLife International. 2015. Important Bird and Biodiversity Area. Website: <http://www.birdlife.org/americas>. Accessed January 2016.

- Bird Studies Canada and North American Bird Conservation Initiative. 2014. Bird Conservation Regions. Published by Bird Studies Canada on behalf of the North American Bird Conservation Initiative. Website: <http://www.birdscanada.org/research/gislab/index.jsp?targetpg=bcr>. Accessed January 2016.
- Branosky, E., Stevens, A., Forbes, S. Defining the Shale Gas Life Cycle: A Framework for Identifying and Mitigating Environmental Impacts; World Resources Institute: Washington, DC, 2012.
- Bureau of Labor Statistics (BLS). 2015. Local Area Unemployment Statistics. Website: <http://www.bls.gov/lau>. Accessed August 2016.
- Bureau of Labor Statistics (BLS). 2016. Databases, Tables and Calculators by Subject. CPI Inflation Calculator. Website: [https://www.bls.gov/data/inflation\\_calculator.htm](https://www.bls.gov/data/inflation_calculator.htm). Accessed in July 2016.
- Cabell Huntington Convention and Visitors Bureau. 2016. Website: <http://www.wvvisit.org/assets/flipbook/>. Accessed January 2016.
- Campbell, R.H., et al. 1984. Landslide Classification for Identification of Mud Flow and Other Landslide Hazards. Proceedings of the Geologic and Hydrologic Hazards Training Program, Denver, Colorado, March 5-30, 1984, Open File Report 84-760. U.S. Geological Survey, Reston, Virginia.
- Cargo, D. N. and B. F. Mallory. 1977. Man and His Geologic Environment. 2<sup>nd</sup> Edition. 581 pp. Addison-Wesley Publishing Company.
- Charleston Convention and Visitor's Bureau. 2016. Places to Stay – Hotels. Website: <http://www.charlestoncvb.com/plan-your-trip/lodging~123/hotels~847/>. Accessed December 2015.
- Council on Environmental Quality (CEQ). 1997. Environmental Justice Guidance under the National Environmental Policy Act. Executive Office of the President, Washington, DC.
- Clayton, Janet, Barbara Douglas, Patricia Morrison, and Rita Villella. 2014. West Virginia Mussel Survey Protocols. Website: [https://www.fws.gov/westvirginiafieldoffice/PDF/West\\_Virginia\\_Mussel\\_Survey\\_Protocols\\_March\\_2014.pdf](https://www.fws.gov/westvirginiafieldoffice/PDF/West_Virginia_Mussel_Survey_Protocols_March_2014.pdf). Accessed September 2016.
- Clutter, Crissy. 2015. Construction set for spring on \$700M power plant in Marshall County. Website: <http://wtov9.com/news/local/construction-set-for-spring-on-700-million-power-plant-in-marshall-county>. Accessed July 2016.
- The Cornell Lab of Ornithology. 2016a. All About Birds: Golden Eagle. Website: [https://www.allaboutbirds.org/guide/Golden\\_Eagle/id](https://www.allaboutbirds.org/guide/Golden_Eagle/id). Accessed January 2016.

- The Cornell Lab of Ornithology. 2016b. Birds of North America Online. Species List Alphabetically. Website: <http://bna.birds.cornell.edu/bna/species>. Accessed February 2016.
- Cowardin, L.M., V. Carter, F.C. Golet, E.T. LaRoe. 1979. Classification of wetlands and deepwater habitats of the United States. U.S. Department of the Interior, Fish and Wildlife Service, Office of Biological Services, Washington, DC. Website: <https://www.fws.gov/wetlands/Documents/classwet/>. Accessed December 2015.
- Dave Hobba Builder. 2016. Alexander's Place, Community Details. Website: <http://davehobbabuilder.com/communities/greater-charleston-area/alexanders-place/>. Accessed August 2016.
- Diskin, Barry A., Friedman, J. P., Peppas, S. C., and Peppas, S. R. 2011. The Effect of Pipelines on Residential Value. Right of Way. Website: [http://www.irwaonline.org/eweb/upload/web\\_jan\\_NaturalGas.pdf](http://www.irwaonline.org/eweb/upload/web_jan_NaturalGas.pdf).
- Dunning, J.B., Jr.; Borgella, R., Jr.; Clements, K.; Meffe, G.K. 1995. Patch isolation, corridor effects, and colonization by a resident sparrow in a managed pine woodland. *Conservation Biology*, 9:542-550.
- Egan, David M. 1988. *Architectural Acoustics*. McGraw-Hill Custom Publishing. New York. 411 pps.
- Federal Emergency Management Agency (FEMA). 2016. Flood Hazard Zones. Website: <https://www.fema.gov/zone>. Accessed in July 2016.
- Federal Energy Regulatory Commission (FERC). 2014. Final Environmental Impact Statement for the Constitution Pipeline and Wright Interconnect Projects (CP13-499-000 and CP13-502000). Issued October 24, 2014.
- Federal Energy Regulatory Commission (FERC). 2016. FERC Online Docket Search. Website: <http://elibrary.ferc.gov/IDMWS/search/fercgensearch.asp>. Accessed on various dates throughout 2016.
- Federal Highway Administration (FHWA). 2016. Highway Functional Classification Concepts, Criteria, and Procedures. Website: [http://www.fhwa.dot.gov/planning/processes/statewide/related/highway\\_functional\\_classifications/section05.cfm](http://www.fhwa.dot.gov/planning/processes/statewide/related/highway_functional_classifications/section05.cfm). Accessed January 2016.
- Federal Register (FR). 1994. Changes in Hydric Soils of the United States. Current Hydric Soil Definition, Vol. 59, No. 133, July 13. Washington, DC.
- Fenneman, N.M., and D.W. Johnson. 1946. Physiographic Divisions of the United States, U.S. Geological Survey Water Resources Maps and GIS Data, Washington, DC. Website: [http://water.usgs.gov/GIS/dsdl/physio\\_shp.zip](http://water.usgs.gov/GIS/dsdl/physio_shp.zip). Accessed November 2015.

- FirstEnergy. 2016. Richwood Hill Transmission Project: Proposed Substation and Transmission Line Will Support Local Shale Gas Industry. Website: <https://www.firstenergycorp.com/content/dam/corporate/transmission/richwood-hill/richwood-hill-transmission-fact-sheet.pdf>. Accessed August 7, 2016.
- Fruits, E. (ECONorthwest). 2008. Natural Gas Pipelines and Residential Property Values: Evidence from Clackamas and Washington Counties. Website: [http://www.academia.edu/195355/Natural\\_Gas\\_Pipelines\\_and\\_Residential\\_Property\\_Values\\_Evidence\\_from\\_Clackamas\\_and\\_Washington\\_Counties](http://www.academia.edu/195355/Natural_Gas_Pipelines_and_Residential_Property_Values_Evidence_from_Clackamas_and_Washington_Counties). Accessed July 2016.
- Gas Processing News. 2015. MarkWest Energy to expand Sherwood processing complex. Website: <http://www.gasprocessingnews.com/news/markwest-energy-to-expand-sherwood-processing-complex.aspx>. Accessed August 2016.
- Gesch, D.B. 2007. The National Elevation Dataset. In D. Maune (ed.), Digital Elevation Model Technologies and Applications: The DEM Users Manual, 2nd Edition. pp. 99-118. American Society for Photogrammetry and Remote Sensing, Bethesda, Maryland.
- Graham, K.L. 2002. Human Influences on Forest Wildlife Habitat. In D.N. Wear and J.G. Greis (eds.), Southern Forest Resource Assessment. General Technical Report SRS-53. 635 pp. U.S. Department of Agriculture, Forest Service, Southern Research Station, Asheville, NC.
- Hansen, J. L., Benson, E. D., and Hagen, D. A. 2006. Environmental Hazards and Residential Property Values: Evidence from a Major Pipeline Event. Land Economics 82(4):529-41.
- Hart Energy. 2013. Oil and Gas Wells. Website: <http://www.rextag.com>. Accessed March 2016.
- Hastings, Mardi C. and Popper, Arthur N. 2005. Effects of Sound on Fish. California Department of Transportation. January 28, 2005. Sacramento, CA.
- HVS Global Hospitality Service. 2016. In Focus: Nashville, Tennessee. Website: <file:///Downloads/HVS%20-%20In%20Focus-%20Nashville,%20Tennessee.pdf>. Accessed January 2016.
- Interstate Natural Gas Pipeline Efficiency (INGAA). 2010. Interstate Natural Gas Pipeline Efficiency. Available online at: <http://www.ingaa.org/file.aspx?id=10929>. Accessed in July 2016.
- James, A. and L. Evison. 1979. Biological Indicators of Water Quality. John Wiley & Sons, Ltd., NY.
- Jones, C., J. McCann, and S. McConville. 2001. A Guide to the Conservation of Forest Interior Dwelling Birds in the Chesapeake Bay Critical Area. Published by the Maryland Department of Natural Resources. Available at: [http://dnr2.maryland.gov/education/Documents/tweetyjune\\_2000.pdf](http://dnr2.maryland.gov/education/Documents/tweetyjune_2000.pdf).

- Jones, D.J., G.S. Kramer, D.N. Gideon, and R.J. Eiber. 1986. An Analysis of Reportable Incidents for Natural Gas Transportation and Gathering Lines 1970 through June 1984. NG-18 Report No. 158, Pipeline Research Committee of the American Gas Association.
- Kentucky Administrative Regulations (KAR). 2014. Surface Water Standards. 401 KAR 10:031. Accessible via the internet at: <http://www.lrc.ky.gov/kar/401/010/031.htm>.
- Kentucky Department of Environmental Protection (KDEP). 2012. 2012 303(d) List of Waters. Website: <http://water.ky.gov/waterquality/Pages/303dList.aspx>. Accessed February 2016.
- Kentucky Department of Fish and Wildlife Resources (KDFWR). 2014. Gray Bat. Website: <http://fw.ky.gov/Wildlife/Pages/Gray-Bat.aspx>. Accessed January 2016.
- Kentucky Department of Fish and Wildlife Resources (KDFWR). 2016. Mammalia. Commonwealth of Kentucky. Website: <http://fw.ky.gov/WAP/Pages/Mammalia.aspx#1064>. Accessed February 2016.
- Kentucky Department of Travel and Tourism. 2016. Search Places to Stay. Website: [http://www.kentuckytourism.com/places\\_to\\_stay](http://www.kentuckytourism.com/places_to_stay). Accessed January 2016.
- Kentucky Geologic Survey. 2016. Kentucky Geologic Map Information Service. Website: <http://kgs.uky.edu/kgsmap/kgsgeoserver/viewer.asp#>. Accessed February 2016.
- Kentucky State Police. 2016. Kentucky State Police Post Map. Website: <http://www.kentuckystatepolice.org/post.html>. Accessed January 2016.
- Kentucky Transportation Cabinet. 2016a. Functional Classification. Website: <http://transportation.ky.gov/Planning/Pages/Functional-Classification.asp>. Accessed January 2016.
- Kentucky Transportation Cabinet. 2016b. Traffic Counts. Website: <http://transportation.ky.gov/Planning/Pages/Count-Maps.aspx>. Accessed January 2016.
- LANDFIRE. 2016. Existing Vegetation Type. Website: <http://landfire.gov/National/ProductDescriptions21.php>. Accessed October 3, 2016.
- LandScope America. 2016. East Gulf Coastal Plain. Website: [http://www.landscape.org/explore/natural\\_geographies/ecoregions/East%20Gulf%20Coastal%20Plain/](http://www.landscape.org/explore/natural_geographies/ecoregions/East%20Gulf%20Coastal%20Plain/). Accessed February 2016.
- Lichvar, R.W, N.C. Melvin, M.L. Butterwick, and W.N. Kirchner. 2014. The National Wetland Plant List: 2014 update of wetland ratings. Phytoneuron, 2014-41: 1-42. Published 2 April 2014. ISSN 2153 733X. Website: <http://www.phytoneuron.net/2014Phytoneuron/41PhytoN-2014NWPLupdate.pdf>. Accessed June 2016.

- Matthaei, C. D., U. Uehlinger, E. I. Meyer, A. Frutiger. 1996. Recolonization by Benthic Invertebrates After Experimental Disturbance in a Swiss Prealpine River. *Freshwater Biology*, 35:233-248.
- Maupin, M.A., and N.L. Barber. 2005. Estimated Withdrawals from Principal Aquifers in the United States, 2000. U.S. Geological Survey Circular, 1279, 46 p. Website: <http://pubs.usgs.gov/circ/2005/1279/pdf/circ1279.pdf>. Accessed November 2015.
- McCabe, D.J. and Gotelli, N.J. 2000. Effects of Disturbance Frequency, Intensity, and Area on Assemblages of Stream Macroinvertebrates. *Oecologia*. 124: 270-279. doi:10.1007/s004420000369.
- McClain, Russell. 2001. Coming Through: WV's Path for Migration. *West Virginia Wildlife Magazine*. Issue: Spring 2001. Published by West Virginia Division of Natural Resources. Available online at: [http://www.wvdnr.gov/wildlife/magazine/archive/01spring/coming\\_through\\_wvs\\_path\\_f\\_or\\_migration.shtm](http://www.wvdnr.gov/wildlife/magazine/archive/01spring/coming_through_wvs_path_f_or_migration.shtm).
- McCoy, K.J., R.M. Yager, D.D. Nelms, D.E. Ladd, Jack Monti Jr., and M.D. Kozar. 2015. Hydrologic Budget and Conditions of Permian, Pennsylvanian, and Mississippian Aquifers in the Appalachian Plateaus Physiographic Province (ver 1.1, October 2015). U.S. Geological Survey Scientific Investigations Report 2015-5106, 77 pp. Website: <http://dx.doi.org/10.3133/sir20155106>.
- McKee, L. and L. Voisin-George. 2016a. Phase I Cultural Resources Report, Cane Ridge and Clifton Compressor Stations. Prepared by ERM for Columbia Gulf Transmission, LLC.
- McKee, L., L. Voisin-George, and L. Thomas. 2016b. Phase I Cultural Resources Report, New Albany and Holcomb Compressor Stations. Prepared by ERM for Columbia Gulf Transmission, LLC.
- McKee, L., W. Stanyard, W. Eichmann, and M. Salavato. 2016c. Phase I and II Archaeological Evaluation Report, Gulf XPress Project, Boyd, Rowan, Garrard, and Metcalfe Counties, Kentucky. Prepared by ERM for Columbia Gulf Transmission, LLC.
- McKenzie, L. M., Witter, R., Newman, L.S., and Adgate, J. 2012. Human health risk assessment of air emissions from development of unconventional natural gas resources *Science of The Total Environment*. 424, 79–87
- Metro Government of Nashville and Davidson County, Tennessee. Metropolitan Planning Department. 2016. Metro Maps. Website: <https://www.nashville.gov/Planning-Department/Mapping-and-GIS/PropertyMapping.aspx>. Accessed August 2016.
- Middle Tennessee State University. 2015. The History of the Glades of the Central Tennessee Basin. Website: <http://w1.mtsu.edu/glade-center/gladehistory.php>. Accessed February 2016.

- Mississippi Department of Environmental Quality (MDEQ). 1992. Potentiometric Map of the Ripley Aquifers in Northeastern Mississippi. By C.R. Hill and L.A. Robinson. OLWR Hydrologic Map 93-1. August 1992. Website: [https://www.deq.state.ms.us/mdeq.nsf/pdf/L&W\\_HydrologicMap93-1/\\$File/HydrologicMap93-1.pdf?OpenElement](https://www.deq.state.ms.us/mdeq.nsf/pdf/L&W_HydrologicMap93-1/$File/HydrologicMap93-1.pdf?OpenElement). Accessed February 2016.
- Mississippi Department of Environmental Quality (MDEQ). 2003. State of Mississippi Water Quality Criteria for Intrastate, Interstate, and Coastal Waters. Approved by EPA on June 27, 2003 (effective date). Accessible via the internet at: [http://deq.state.ms.us/mdeq.nsf/pdf/WMB\\_wqsstandoc/\\$File/WQStandards6-2003.pdf?OpenElement](http://deq.state.ms.us/mdeq.nsf/pdf/WMB_wqsstandoc/$File/WQStandards6-2003.pdf?OpenElement).
- Mississippi Department of Environmental Quality (MDEQ). 2016a. Surface Geologic Unit Descriptions for Mississippi. Website: [https://www.deq.state.ms.us/mdeq.nsf/pdf/Geology\\_MSGeologicUnitDescription/\\$File/MS\\_GeologicUnit\\_Desc.pdf?OpenElement](https://www.deq.state.ms.us/mdeq.nsf/pdf/Geology_MSGeologicUnitDescription/$File/MS_GeologicUnit_Desc.pdf?OpenElement). Accessed February 2016.
- Mississippi Department of Environmental Quality (MDEQ). 2016b. Wellhead Protection Program. Website: [https://www.deq.state.ms.us/mdeq.nsf/page/GPB\\_WellheadProtection?OpenDocument](https://www.deq.state.ms.us/mdeq.nsf/page/GPB_WellheadProtection?OpenDocument). Accessed February 2016.
- Mississippi Department of Transportation (MDOT). 2016. Traffic Volume. Website: <http://sp.mdot.ms.gov/Office%20of%20Highways/Planning/Maps/Pages/Traffic-Volume-Maps.aspx>. Accessed January 2016.
- Mississippi Department of Wildlife, Fisheries, and Parks (MDWFP). 2014. Endangered Species of Mississippi. Mississippi Museum of Natural Science. 2014 Edition. Website: [https://www.mdwfp.com/media/279708/endangered\\_species\\_of\\_mississippi.pdf](https://www.mdwfp.com/media/279708/endangered_species_of_mississippi.pdf). Accessed in July 2016.
- Mississippi Department of Wildlife, Fisheries, and Parks (MDWFP). 2016a. Letter from Kyle Swanier of MDWFP to Cameron Young of NRG. February 8, 2016.
- Mississippi Department of Wildlife, Fisheries, and Parks (MDWFP). 2016b. Malmaison Wildlife Management Area. Website: <https://www.mdwfp.com/wildlife-hunting/wmas/north-deltaregion/malmaison.aspx>. Accessed January 2016.
- Mississippi Highway Patrol. 2016. Website: <http://www.dps.state.ms.us/highway-patrol/district-offices>. Accessed January 2016.
- Missouri Department of Natural Resources Geological Survey. 2015. Facts about the New Madrid Seismic Zone. Website: <http://dnr.mo.gov/geology/geosrv/geores/techbulletin1.htm>. Accessed February 2016.
- Moore, C.W., Zielinska, B., Pétron, G., and Jackson, R.B. 2014. Air Impacts of Increased Natural Gas Acquisition, Processing, and Use: A Critical Review. *Environ. Sci. Technol.*, 48, 8349–8359.

- Mountain Valley Pipeline. 2016. Mountain Valley Pipeline. Website: <http://mountainvalleypipeline.info/>. Accessed August 2015.
- National Audubon Society. 2013. Important Bird Areas in the U.S. Website: <http://www.audubon.org/bird/iba>. Accessed May 2016.
- National Conservation Easement Database. 2016. State of West Virginia. Website: [http://www.conservationeasement.us/reports/easements?report\\_state=West%20Virginia&report\\_type=All](http://www.conservationeasement.us/reports/easements?report_state=West%20Virginia&report_type=All). Accessed January 2016.
- National Park Service (NPS). 2011. Nationwide Rivers Inventory. Available online at: <https://www.nps.gov/ncrc/programs/rtca/nri/index.html>. Last modified August 19, 2011. Accessed September 2016.
- The Nature Conservancy. 2016. South-Central Interior Mesophytic Forest, Macrogroup: Northern Hardwood and Conifer. Website: <https://www.conservationgateway.org/ConservationByGeography/NorthAmerica/UnitedStates/edc/Documents/HabitatGuides/80.pdf> Accessed October 11, 2016.
- NatureServe. 2015. NatureServe Explorer: An Online Encyclopedia of Life. Version 7.1. Website: <http://explorer.natureserve.org>. Accessed January 2016.
- NiSource/Columbia Gas Transmission (NiSource/Columbia). 2014. Multi-Species Habitat Conservation Plan, as amended. Website: <http://www.fws.gov/Midwest/endangered/permits/hcp/nisource/index.html>. Accessed January 2016.
- North American Bird Conservation Initiative (NABCI). 2016. About NABCI: All Birds, All Habitats. Website: [http://www.nabci.net/International/English/about\\_nabci.html](http://www.nabci.net/International/English/about_nabci.html). Accessed July 2016.
- North American Bird Conservation Initiative (NABCI). 2017. Resource Directory. Website: <http://nabci-us.org/resources/resource-directory/>. Accessed January 2017.
- North Bend Rails to Trails Foundation Inc. 2016. The North Bend Trail. Website: <http://northbendrailtrail.org>. Accessed February 2016.
- North Carolina State University (NCSU) Water Quality Group. 1994 (updated 2001). Watersheds - a decision support system for non-point source pollution control. In cooperation with North Carolina Cooperative Extension, NCSU Department of Agricultural and Biological Engineering, and Penn State University Department of Agricultural and Biological Engineering. Website: <http://h2osparc.wq.ncsu.edu/info/sediment.html>. Accessed May 2016.
- O'Rourke, T.D. and M.C. Palmer. 1996. Earthquake Performance of Gas Transmission Pipelines. Earthquake Spectra. Vol. 12, No. 3, pp.493-527. Accessed via website: <http://www.desastres.hn/docum/crid/Diciembre2004/pdf/eng/doc7491/doc7491-contenido.pdf>. Accessed May 2016.

- Peckler, D. 2016. Historic Architectural Survey of the Gulf Xpress Project, Rowan, Farrard, and Metcalfe Counties, Kentucky. Prepared by Dovetail Cultural Resource Group on behalf of ERM for Columbia Gulf Transmission, LLC.
- Pennsylvania Department of Environmental Protection (PADEP). 2015. Technologically Enhanced Naturally Occurring Radioactive Materials (TENORM) Study Report, Rev. 0. Prepared by Perma-Fix Environmental Services, Inc. January. Website: [http://www.elibrary.dep.state.pa.us/dsweb/Get/Document-105822/PA-DEP-TENORMStudy\\_Report\\_Rev\\_0\\_01-15-2015.pdf](http://www.elibrary.dep.state.pa.us/dsweb/Get/Document-105822/PA-DEP-TENORMStudy_Report_Rev_0_01-15-2015.pdf). Accessed May 2016.
- PGP Valuation, Inc. (PGP). 2008. Updated Market Analysis – The Impact of Natural Gas Pipelines on Property Values. February 21, 2008. Website: [http://www.palomargas.com/docs/resources/Pipeline\\_Impact\\_on\\_Property\\_Values.pdf](http://www.palomargas.com/docs/resources/Pipeline_Impact_on_Property_Values.pdf). Accessed June 2016.
- Public Schools K-12. 2011. Data for School Year 2009 – 2010. Website: <http://publicschools12.com/all-schools>. Accessed January 2016.
- Puente, Celso. 1985. West Virginia Ground-Water Resources. *In* National Water Summary, 1984—Hydrologic Events, Selected Water Quality Trends, and Ground-Water Resources. U.S. Geological Survey Water-Supply Paper 2275, pp. 439-446.
- Radbruch-Hall, D.H., R.B. Colton, W.E. Davies, Ivo Lucchitta, B.A. Skipp, and D.J. Varnes. 1982. Landslide Overview Map of the Conterminous United States. Geological Survey Professional Paper 1183.
- Rainwater, E. H. 1961. Outline of Geological History of Mississippi. Gulf Coast Association of Geological Societies Transactions Vol. 11, pp 43-45.
- Ramsey, Charles G. and H.R. Sleeper. 1994. Architectural Graphic Standards. The American Institute of Architects. John Wiley & Sons, Inc., New York.
- River Town Program. 2016. About the Program. Website: <http://monrivertowns.com/about-the-program>. Accessed February 2016.
- Roane-Jackson Technical Center. 2016. Touch the Earth Nature Trail. Website: <http://www.roane-jacksontechnicalcenter.com/areas/nature.htm>. Accessed February 2016.
- Robbins, C.S. 1979. Effect of Forest Fragmentation on Bird Population. Published by The United States Forest Service (USFS). Available at [https://www.fws.gov/southwest/es/documents/R2ES/LitCited/LPC\\_2012/Robbins\\_1979.pdf](https://www.fws.gov/southwest/es/documents/R2ES/LitCited/LPC_2012/Robbins_1979.pdf).
- Robbins, C.S., D.K. Dawson, and B.A. Dowell. 1989. Habitat Area Requirements of Breeding Forest Birds of the Middle Atlantic States. Wildlife Monographs. 103:1-34.
- Rogers, T. 2016. Email report of T. Rodgers conversation on April 8 with Ranger Jonathan Kazmierski regarding the location of the site in relation to the Daniel Boone National Forest.

- Rosenberg, K.V., R.W. Rohrbaugh Jr., S.E. Barker, J.D. Lowe, R.S. Hames, and A.A. Dhondt. 1999. A Land Managers Guide to Improving Habitat for Scarlet Tanagers and Other Forest-interior Birds. The Cornell Lab of Ornithology, Cornell University, Ithaca, NY.
- Rowan County. 2016a. New County Jail, construction 2016, 2017, Under Construction. Website: <http://www.correctionalnews.com/articles/2015/10/7/rowan-county-build-new-jail>. Accessed June 2016.
- Rowan County. 2016b. Morehead State University Improvements, \$310 million between 2016 and 2018, under construction and proposed. Website: <http://webcache.googleusercontent.com/search?q=cache:sC0K5IHEyXUJ:www.moreheadstate.edu/WorkArea/DownloadAsset.aspx%3Fid%3D2147486740+&cd=3&hl=en&ct=clnk&gl=us>. Accessed June 2016.
- Rowan County. 2016c. KY32 Rebuild Project (btw Elliottville and KY7) 2017-2018, Proposed. Website: <http://transportation.ky.gov/district-9/Pages/default.aspx>. Accessed August 2016.
- RVParking.com. 2016. RV Parks and Campgrounds of the United States. Website: <http://www.rvparking.com>. Accessed July 2016.
- Soil Survey Staff. 1993. Soil Survey Manual. U.S. Department of Agriculture Agricultural Handbook 18. U. S. Government Printing Office, Washington, DC.
- Soil Survey Staff. 2015a. Official Soil Series Descriptions. Natural Resources Conservation Service, U.S. Department of Agriculture. Website: <https://soilseries.sc.egov.usda.gov/osdname.aspx>. Accessed December 2015.
- Soil Survey Staff. 2015b. Web Soil Survey. Natural Resources Conservation Service, U.S. Department of Agriculture. Website: <http://websoilsurvey.nrcs.usda.gov/>. Accessed December 2015.
- Soil Survey Staff. 2016a. Official Soil Series Descriptions. Natural Resources Conservation Service, U.S. Department of Agriculture. Website: <https://soilseries.sc.egov.usda.gov/>. Accessed March 2016.
- Soil Survey Staff. 2016b. Web Soil Survey. Natural Resources Conservation Service, U.S. Department of Agriculture. Website: <http://websoilsurvey.nrcs.usda.gov/>. Accessed March 2016.
- Spectra Energy Corp. (Spectra). 2016. New Project and Our Process; Open Pipeline Energy Network. Website: <http://www.spectraenergy.com/Operations/New-Projects-and-Our-Process/New-Projects-in-US/Ohio-Pipeline-Energy-Network-OPEN/>. Accessed June 2016.
- Stanyard, William F., Ed Schneider, Larissa A. Thomas, Laura Voisin George, Jeffrey Holland, and Larry McKee. 2016. Columbia Gas Transmission Mountaineer Xpress Project, Phase I Archaeological Survey Report, Cabell, Calhoun, Doddridge, Jackson, Marshall,

- Putnam, Ritchie, Roane, Tyler, Wetzel, and Wirt Counties, West Virginia. Prepared by Natural Resource Group, LLC, an ERM Company, Duluth, Georgia. Submitted to Columbia Gas Transmission, LLC, Charleston, West Virginia.
- Stover, C.W. and J.L. Coffman. 1993. Seismicity of the United States, 1568-1989 (Revised). U.S. Geological Survey Professional Paper 1527. Website: <http://pubs.er.usgs.gov/publication/pp1527>. Accessed April 2016.
- Strager, M. and A. Maxwell. 2012. NRAC415: West Virginia Wetland Inventory and Modeling Project Phase III. Website. <http://wvgis.wvu.edu/data/otherdocs/ForestFragDocumentation.pdf> Accessed October 3, 2016.
- Tanyard Station. 2016. Big Commercial Development Planned. Website: <http://tanyardstation.com/big-commercial-development-planned/#about>. Accessed January 2016.
- The Tennessean. 2016a. Nashville Airport Plans \$1.2 Billion Overhaul, Including New Hotel. Web article dated August 1, 2016: Website: <http://www.tennessean.com/story/news/local/davidson%20/2016/07/31/nashville-airport-plans-12b-overhaul-including-new-hotel/87478166/>. Accessed July 2016.
- The Tennessean. 2016b. Massive Antioch Mixed-Use Project Take Steps Forward. Web article dated February 11, 2016. Website: <http://www.tennessean.com/story/money/real-estate/2016/02/11/massive-antioch-mixed-use-project-take-steps-forward/79021206/>. Accessed July 2016.
- Tennessee, State of. 1985. Tennessee Rare Plant Protection and Conservation Act of 1985. Website: <http://www.treasury.state.tn.us/sos/rules/0400/0400-06/0400-06-02.pdf>. Accessed January 2016.
- Tennessee Department of Environment and Conservation (TDEC). 2014. Year 2014 303(d) List. Website: <https://www.tn.gov/assets/entities/environment/attachments/2014-proposed-final-303d-list.pdf>. Accessed February 2016.
- Tennessee Department of Environment and Conservation (TDEC). 2015. Natural Heritage Inventory Program. Website: <https://www.tn.gov/environment/article/na-natural-heritage-inventory-program>. Accessed December 2015.
- Tennessee Department of Environment and Conservation (TDEC). 2016. Natural Heritage Inventory Program Consultation letter from TDEC NHP to Columbia Gulf Transmission, LLC responding to Columbia Gulf's request for a rare species database review. June 22, 2016.
- Tennessee Department of Tourism Development. 2016. Places to Stay. Website: <https://www.tnvacation.com/stay>. Accessed January 2016.
- Tennessee Department of Transportation (TDOT). 2016. Annual Average Daily Traffic. Website: <http://www.tn.gov/tdot/article/longrange-aadt>. Accessed January 2016.

- Tennessee Highway Patrol. 2016. THP Contact Information. Website: <https://tn.gov/safety/section/thp>. Accessed January 2016.
- Tewksbury, J.J., D.J. Levey, N.M. Haddad, S. Sargent, J.L. Orrock, A. Weldon, B.J. Danielson, J. Brinkerhoff, E.I. Damschen, and P. Townsend. 2002. Corridors affect plants, animals, and their interactions in fragmented landscapes. *Proceedings of the National Academy of Sciences* 99:12923-12926. Trow Consulting Engineers, Ltd. 1993. TransCanada Pipelines Water Crossing Manual. October 5, 1993.
- Trow Engineering Consultants, Inc. 1996. Waterbody Crossing Design and Installation Manual. Report submitted to the Offshore and Onshore Design Applications Supervisory Committee of the Pipeline Research Committee at the American Gas Association. Trow Engineering Consultants, Inc. Tallahassee, FL.
- University of Kentucky. 2016. Blue Grass Region. Website: <http://www.uky.edu/OtherOrgs/KPS/goky/pages/gokych13.htm>. Accessed February 2016.
- USACops. 2016. Law Enforcement Agencies by State. Website: <http://www.usacops.com>. Accessed January 2016.
- U.S. Army Corps of Engineers (USACE). 1987. Corps of Engineers Wetlands Delineation Manual. Technical Report Y-87-1, U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS.
- U.S. Army Corps of Engineers (USACE). 2010. Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Atlantic and Gulf Coastal Plain Region (Version 2.0). ERDC/EL TR-10-20. U.S. Army Engineer Research and Development Center, Vicksburg, MS.
- U.S. Army Corps of Engineers (USACE). 2012. Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Eastern Mountains and Piedmont Region (Version 2.0). ERDC/EL TR-12-9. U.S. Army Engineer Research and Development Center, Vicksburg, MS.
- U.S. Army Corps of Engineers (USACE). 2014. Mill Creek Flood Risk Management Study, Nashville, Tennessee. Draft Integrated Feasibility Report. Available online at: [http://cdm266001.cdmhost.com/cdm/compoundobject/collection/p16021coll7/id/957/rec/3#img\\_view\\_container](http://cdm266001.cdmhost.com/cdm/compoundobject/collection/p16021coll7/id/957/rec/3#img_view_container). Accessed in July 2016.
- U.S. Atomic Energy Commission (USAEC). 1963. TID-7024. Nuclear Reactors and Earthquakes. pp. 13-14. August 1963. Prepared by Lockheed Aircraft Corporation and Holmes & Narver, Inc., for the Division of Reactor Development.
- U.S. Census Bureau (USCB). 2010. 2010 Census. Website: <https://www.census.gov/quickfacts>. Accessed August 2016.
- U.S. Census Bureau (USCB). 2014. 2010-2014 American Community Survey 5-Year Estimates. Website: <http://factfinder.census.gov>. Accessed August 2016.

- U.S. Census Bureau (USCB). 2015. 2015 Population Estimates. Website: <http://factfinder.census.gov>. Accessed August 2016.
- U.S. Congress. 2005. Energy Policy Act of 2005. 42 USC 15801. Available online at: <https://www.gpo.gov/fdsys/pkg/PLAW-109publ58/pdf/PLAW-109publ58.pdf>.
- U.S. Congress. 2007. Energy Independence and Security Act of 2007. 42USC 17001. Available online at: <https://www.congress.gov/110/plaws/publ140/PLAW-110publ140.pdf>.
- U.S. Congress. 2008. Energy Improvement and Extension Act of 2008. 110<sup>th</sup> Congress, 2<sup>nd</sup> Session. H.R. 7201. Available at: <https://www.congress.gov/110/bills/hr7201/BILLS-110hr7201ih.pdf>.
- U.S. Congress. 2009. American Recovery and Reinvestment Act of 2009. Public Law 111-5, 111<sup>th</sup> Congress. 26 USC 1. Available at: <https://www.congress.gov/111/plaws/publ5/PLAW-111publ5.pdf>.
- U.S. Department of Agriculture (USDA). 2006. Natural Resources Conservation Service Agriculture Handbook No. 296, Land Resource Regions and Major Land Resource Areas of the United States, the Caribbean, and the Pacific Basin. Website: [http://www.nrcs.usda.gov/Internet/FSE\\_DOCUMENTS/nrcs142p2\\_050898.pdf](http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_050898.pdf). Accessed December 2015.
- U.S. Department of Agriculture (USDA). 2012. Federal Noxious Weed List. Website: <https://plants.usda.gov/java/noxious>. Accessed July 2016.
- U.S. Department of Agriculture (USDA). 2015. Natural Resources Conservation Service. Web Soil Survey. Website: <http://websoilsurvey.nrcs.usda.gov/>. Accessed December 2015.
- U.S. Department of Agriculture (USDA) Forest Service. 2016a. Ecological Subregions of the United States. Eastern Broadleaf Forest. Website: <http://www.fs.fed.us/land/pubs/ecoregions/ch17.html#222E>. Accessed February 2016.
- U.S. Department of Agriculture (USDA). 2016b. National Resource Conservation Service Tickfaw Watershed Ecoregion Description. Website: [http://www.nrcs.usda.gov/Internet/FSE\\_DOCUMENTS/nrcs141p2\\_015510.pdf](http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs141p2_015510.pdf). Accessed February 2016.
- U.S. Department of Agriculture (USDA). 2016c. Natural Resources Conservation Service Web Soil Survey. Website: <http://websoilsurvey.nrcs.usda.gov/>. Accessed February 2016.
- U.S. Department of Agriculture (USDA). 2016d. Natural Resources Conservation Service . Native, Invasive, and Other Plan-Related Definitions. Website: [https://www.nrcs.usda.gov/wps/portal/nrcs/detail/ct/technical/ecoscience/invasive/?cid=nrcs142p2\\_011124](https://www.nrcs.usda.gov/wps/portal/nrcs/detail/ct/technical/ecoscience/invasive/?cid=nrcs142p2_011124). Accessed July 2016.

- U.S. Department of Transportation (USDOT). 2016. Pipeline and Hazardous Materials Safety Administration. Pipeline Incident 20 Year Trends. Website: <http://www.phmsa.dot.gov/pipeline/library/data-stats/pipelineincidenttrends>. Accessed June 2016.
- U.S. Energy Information Administration (EIA). 1995. Longwall Mining. U.S. Department of Energy. 69pp.
- U.S. Energy Information Administration (EIA). 2015. Annual Energy Outlook 2015 with Projections to 2040. Website: [http://www.eia.gov/forecasts/aeo/pdf/0383\(2015\).pdf](http://www.eia.gov/forecasts/aeo/pdf/0383(2015).pdf). Accessed April 2016.
- U.S. Energy Information Administration (EIA). 2016. Today in Energy. New Pipeline Projects Increase Northeast Natural Gas Takeaway Capacity. <http://www.eia.gov/todayinenergy/detail.cfm?id=24732>. Accessed May 2016.
- U.S. Environmental Protection Agency (EPA). 1974. Information on Levels of Environmental Noise Requisite to Protect Public Health and Welfare with an Adequate Margin of Safety. Office of Noise, Abatement and Control. March 1974. 242 pps.
- U.S. Environmental Protection Agency (EPA). 1988. Control of Open Fugitive Dust Sources. Office of Air Quality Planning and Standards. Research Triangle Park, NC. September 1988.
- U.S. Environmental Protection Agency (EPA). 1998a. Compilation of Air Pollutant Emission Factors (AP-42), Section 11.9. October. Website: <http://www.epa.gov/ttn/chief/ap42/ch11/final/c11s09.pdf>. Accessed June 2016.
- U.S. Environmental Protection Agency (EPA). 1998b. AP-42 Chapter 1.4 Natural Gas Combustion. July 1998. Website: <https://www3.epa.gov/ttn/chief/ap42/ch01/final/c01s04.pdf>. Accessed June 2016.
- U.S. Environmental Protection Agency (EPA). 2000. AP-42 Chapter 3.1 Stationary Gas Turbines. April 2000. Website: <https://www3.epa.gov/ttn/chief/ap42/ch03/final/c03s01.pdf>. Accessed July 2016.
- U.S. Environmental Protection Agency (EPA). 2006a. Background Document for Revisions to FineFraction Ratios Used for AP-42 Fugitive Dust Emission Factors. February 1, 2006. Website: <https://www3.epa.gov/ttn/chief/ap42/ch13/bgdocs/b13s02.pdf>. Accessed August 2016.
- U.S. Environmental Protection Agency (EPA). 2006b. AP-42 Chapter 13.2.2 Unpaved Roads. November 2006. Website: <https://www3.epa.gov/ttn/chief/ap42/ch13/final/c13s0202.pdf>. Accessed August 2016.
- U.S. Environmental Protection Agency (EPA). 2011a. Office of Ground Water and Drinking Water, National Sole Source Aquifer GIS Layer. Website: <http://catalog.data.gov/dataset/national-sole-source-aquifer-gis-layer>. Accessed November 2015.

- U.S. Environmental Protection Agency (EPA). 2011b. Environmental Justice Frequently Asked Questions. Website: <http://www.epa.gov/compliance/ej/resources/faqs/index.html>. Accessed July 2016.
- U.S. Environmental Protection Agency (EPA). 2014a. 40 CFR Part 98, Table A-1 to Subpart A, Global Warming Potentials. December 11, 2014. Website: [http://www.ecfr.gov/cgi-bin/text-idx?SID=8aa1adab67ca05d6d13727841aaf1e7f&mc=true&node=ap40.23.98\\_19.1&rqn=div9](http://www.ecfr.gov/cgi-bin/text-idx?SID=8aa1adab67ca05d6d13727841aaf1e7f&mc=true&node=ap40.23.98_19.1&rqn=div9). Accessed August 2016.
- U.S. Environmental Protection Agency (EPA). 2016a. Sole Source Aquifers for Drinking Water. Website: <http://www2.epa.gov/dwssa>. Accessed May 2016.
- U.S. Environmental Protection Agency (EPA). 2016b. Sole Source Aquifers in the Southeast. Website: <http://archive.epa.gov/pesticides/region4/water/groundwater/web/html/r4ssa.html>. Accessed January 2016.
- U.S. Environmental Protection Agency (EPA). 2016c. National Ambient Air Quality Standards Table. Website: <https://www.epa.gov/criteria-air-pollutants/naaqs-table>. Accessed June 2016.
- U.S. Environmental Protection Agency (EPA). 2016d. Ecoregions. Website: <https://www.epa.gov/eco-research/ecoregions>. Accessed August 2016.
- U.S. Fire Administration. 2016. National Fire Department Census, Advanced Search. Website: <https://apps.usfa.fema.gov/census>. Accessed January 2016.
- U.S. Fish and Wildlife Service (USFWS). 1979. Federal Listing of Virginia big-eared bat as status endangered. 44 FR 69206 69208. November 30, 1979.
- U.S. Fish and Wildlife Service (USFWS). 1997a. Clubshell (*Pleurobema clava*). Website: [http://www.fws.gov/MIDWEST/endangered/clams/clubshell/clubs\\_fc.html](http://www.fws.gov/MIDWEST/endangered/clams/clubshell/clubs_fc.html). Accessed January 2016.
- U.S. Fish and Wildlife Service (USFWS). 1997b. Fanshell. Website: <http://www.fws.gov/midwest/endangered/clams/pdf/fanshell.pdf>. Accessed January 2016.
- U.S. Fish and Wildlife Service (USFWS). 1997c. Fact Sheet: Northern Riffleshell. Website: <http://www.fws.gov/midwest/endangered/clams/n-riffleshell.html>. Accessed January 2016.
- U.S. Fish and Wildlife Service (USFWS). 1997d. Fact Sheet: Pink Mucket. Website: [http://www.fws.gov/midwest/endangered/clams/pinkm\\_fc.html](http://www.fws.gov/midwest/endangered/clams/pinkm_fc.html). Accessed January 2016.
- U.S. Fish and Wildlife Service (USFWS). 1997e. News Release: Braun's Rockcress Draft Recovery Plan Available for Review. Website: <http://www.fws.gov/southeast/news/1997/r97-34.html>. Accessed January 2016.

- U.S. Fish and Wildlife Service (USFWS). 1997f. Leafy Prairie-Clover (*Dalea foliosa*).  
Website: <http://www.fws.gov/midwest/endangered/plants/pdf/lfy-pclover.pdf>. Accessed January 2016.
- U.S. Fish and Wildlife Service. 2006. Midwest Endangered Species Home: Indiana Bat. Fact Sheet. Web: <https://www.fws.gov/midwest/endangered/mammals/inba/inbafactsht.html>. Accessed July 2016.
- U.S. Fish and Wildlife Service (USFWS). 2007. National Bald Eagle Management Guidelines. <https://www.fws.gov/northeast/ecologicalservices/pdf/NationalBaldEagleManagementGuidelines.pdf>. Accessed February 2016.
- U.S. Fish and Wildlife Service (USFWS). 2008. Birds of Conservation Concern. Website: <http://www.fws.gov/migratorybirds/NewReportsPublications/SpecialTopics/BCC2008/BCC2008.pdf>. Accessed October 2015.
- U.S. Fish and Wildlife Service. 2009. Technical/Agency Draft Recovery Plan for *Astragalus bibullatus* (Pyne's Ground-plum). Website: [http://www.fws.gov/cookeville/pdfs/pynes\\_gp\\_3\\_31\\_10.pdf](http://www.fws.gov/cookeville/pdfs/pynes_gp_3_31_10.pdf). Accessed January 2016.
- U.S. Fish and Wildlife Service (USFWS). 2010. Diamond darter (*Crystallaria cincotta*). Fact Sheet. Website: [https://www.fws.gov/northeast/pdf/DiamondDarter\\_1010.pdf](https://www.fws.gov/northeast/pdf/DiamondDarter_1010.pdf). Accessed July 2016.
- U.S. Fish and Wildlife Service (USFWS). 2012a. Rayed Bean (freshwater mussel) *Villosa fabalis*. Fact Sheet. Available online at: <http://www.fws.gov/midwest/endangered/clams/rayedbean/pdf/RayedBeanFactSheet.pdf>. Accessed June 2016.
- U.S. Fish and Wildlife Service (USFWS). 2012b. Sheepnose (a freshwater mussel) *Plethobasus cyphus*. Fact Sheet. Available online at <http://www.fws.gov/midwest/endangered/clams/sheepnose/pdf/SheepnoseFactSheetMarch2012.pdf>. Accessed June 2016.
- U.S. Fish and Wildlife Service. 2012c. Snuffbox (freshwater mussel) *Epioblasma triquetra*. Fact Sheet. Available online at: <http://www.fws.gov/midwest/endangered/clams/snuffbox/pdf/SnuffboxFactSheetFeb2012.pdf>. Accessed November 2015.
- U.S. Fish and Wildlife Service (USFWS). 2012d. Spectaclecase (a freshwater mussel). Website: <http://www.fws.gov/MIDWEST/endangered/clams/spectaclecase/SpectaclecaseFactSheetMarch2012.html>. Accessed January 2016.
- U.S. Fish and Wildlife Service (USFWS). 2014. Six Tennessee Cave Beetles Considered for Endangered Species List. Website: <http://www.fws.gov/cookeville/CaveBeetles.html>. Accessed January 2016.
- U.S. Fish and Wildlife Service (USFWS). 2015a. Fact Sheet: Indiana Bat. FWS, Northeast

- Region. Website: <http://www.fws.gov/northeast/pdf/indianabat.fs.pdf>. Accessed January 2016.
- U.S. Fish and Wildlife Service. 2015b. White-nose syndrome fact sheet. Available online at [https://www.whitenosesyndrome.org/sites/default/files/resource/white-nose\\_fact\\_sheet\\_6-2015\\_3.pdf](https://www.whitenosesyndrome.org/sites/default/files/resource/white-nose_fact_sheet_6-2015_3.pdf). Accessed May 2016.
- U.S. Fish and Wildlife Service (USFWS). 2015c. Northern Long-eared Bat (*Myotis septentrionalis*). Website: <http://www.fws.gov/midwest/endangered/mammals/nlba/nlbaFactSheet.html>. Accessed January 2016.
- U.S. Fish and Wildlife Service (USFWS). 2015d. Price's Potato-bean. Website: <http://www.fws.gov/midwest/endangered/plants/pricesp.html>. Accessed January 2016.
- U.S. Fish and Wildlife Service (USFWS). 2015e. Fact Sheet: Running Buffalo Clover. Website: <http://www.fws.gov/midwest/endangered/plants/runningb.html>. Accessed January 2016.
- U.S. Fish and Wildlife Service (USFWS). 2015f. Short's Bladderpod. Website: <http://www.fws.gov/midwest/endangered/plants/shortsbladderpod/index.html>. Accessed January 2016.
- U.S. Fish and Wildlife Service (USFWS). 2015g. IPaC Trust Resource Report (for the Mountaineer XPress Project). USFWS West Virginia Ecological Services Field Office. Elkins, WV. 13 pp.
- U.S. Fish and Wildlife Service (USFWS). 2016a. Ecological Services. National Wetlands Inventory. Wetlands Mapper. Website: <https://www.fws.gov/wetlands/>. Accessed in August 2016.
- U.S. Fish and Wildlife Service (USFWS). 2016b. ECOS Environmental Conservation Online System. U.S. FWS Threatened and Endangered Species Active Critical Habitat Report. Online Mapper. Website: <http://ecos.fws.gov/ecp/report/table/critical-habitat.html>. Accessed in August 2016.
- U.S. Fish and Wildlife Service (USFWS). 2016c. Letter from John E. Schmidt, Field Supervisor, West Virginia Field Office to Matthew Johnson, EnviroScience Inc. Dated September 21, 2016.
- U.S. Fish and Wildlife Service (USFWS). 2016d. The Information, Planning and Conservation System (IPaC). IPaC Trust Resources Report. Available online at <https://www.fws.gov/ipac/>. Accessed September 2016.
- U.S. Fish and Wildlife Service (USFWS). 2017a. Cerulean Warbler Fact Sheet. Website: <https://www.fws.gov/midwest/es/soc/birds/cerw/cerw-fctsheets.html>. Accessed January 2017.

- U.S. Forest Service (USFS). 2013. Southern Forest Resource Assessment. Effects of Linear Land Uses (Roads, Power Lines, and Trails) on Forest Wildlife. Available at: <http://www.srs.fs.usda.gov/sustain/report/terra3/terra3-15.htm>. Accessed June 2016.
- U.S. Forest Service (USFS). 2016. Daniel Boone National Forest. Website: <http://www.fs.usda.gov/dbnf>. Accessed January 2016.
- U.S. Geological Survey (USGS). 1994. Hydrological Units Maps: U.S. Geological Survey Water-Supply Paper 2294. Website: <http://pubs.usgs.gov/wsp/wsp2294/>. Accessed April 2016.
- U.S. Geological Survey (USGS). 1995. Ground Water Atlas of U.S. – Segment 10: Illinois, Indiana, Kentucky, Ohio, and Tennessee, HA 730-K. Regional Summary by Orville B. Lloyd, Jr. and William L. Lyke. Website: [http://pubs.usgs.gov/ha/ha730/ch\\_k/index.html](http://pubs.usgs.gov/ha/ha730/ch_k/index.html). Accessed January 2016.
- U.S. Geological Survey (USGS). 1997. Groundwater Atlas of the United States, Delaware, Maryland, New Jersey, North Carolina, Pennsylvania, Virginia, West Virginia. Website: [http://pubs.usgs.gov/ha/ha730/ch\\_l/index.html](http://pubs.usgs.gov/ha/ha730/ch_l/index.html). Accessed May 2016.
- U.S. Geological Survey (USGS). 1998. Ground Water Atlas of U.S. – Segment 5: Arkansas, Louisiana, Mississippi, HA 730-F. Regional Summary by Robert A. Renken. Website: [http://pubs.usgs.gov/ha/ha730/ch\\_f/index.html](http://pubs.usgs.gov/ha/ha730/ch_f/index.html). Accessed January 2016.
- U.S. Geological Survey (USGS). 1999. Ground Water Atlas of the United States, Introduction and National Summary. Website: [http://pubs.usgs.gov/ha/ha730/ch\\_a/index.html](http://pubs.usgs.gov/ha/ha730/ch_a/index.html). Accessed May 2016.
- U.S. Geological Survey (USGS). 2003a. Active mines and mineral plants in the U.S. Website: <http://mrdata.usgs.gov/mineplant/>. Accessed April 2016.
- U.S. Geological Survey (USGS). 2003b. Principal Aquifers of the 48 Conterminous United States, Hawaii, Puerto Rico, and the U.S. Virgin Islands. Version 1.0. Madison, Wisconsin. Website: <http://water.usgs.gov/ogw/aquifer/map.html>. Accessed May 2016.
- U.S. Geological Survey (USGS). 2006. Quaternary fault and fold database for the United States. Website: <http://earthquake.usgs.gov/hazards/qfaults/>. Accessed May 2016.
- U.S. Geological Survey (USGS). 2009. Earthquake Hazard in the New Madrid Seismic Zone Remains a Concern. Website: <http://pubs.usgs.gov/fs/2009/3071/pdf/FS09-3071.pdf>. Accessed June 2016.
- U.S. Geological Survey (USGS). 2014a. Central & Eastern U.S. Scenarios for 2011 National Level Exercise. Website: [http://earthquake.usgs.gov/hazards/products/scenario/ceus\\_nle\\_2011/](http://earthquake.usgs.gov/hazards/products/scenario/ceus_nle_2011/). Accessed February 2016.
- U.S. Geological Survey (USGS). 2014b. Mineral Resources On-Line Spatial Data. Geology by state. Website: <http://mrdata.usgs.gov/geology/state/map.html>. Accessed May 2016.

- U.S. Geological Survey (USGS). 2014c. Ten-percent probability of exceedance in 50 years map of peak ground acceleration. Website: <http://earthquake.usgs.gov/hazards/products/conterminous/2014/2014pga10pct.pdf>. Accessed June 2016.
- U.S. Geological Survey (USGS). 2014d. Two-percent probability of exceedance in 50 years map of peak ground acceleration. Website: <http://earthquake.usgs.gov/hazards/products/conterminous/2014/2014pga2pct.pdf>. Accessed June 2016.
- U.S. Geological Survey (USGS). 2014e. Water-Quality Assessments of Principal Aquifers. Website: <http://water.usgs.gov/nawqa/studies/praq/>. Accessed May 2016.
- U.S. Geological Survey (USGS). 2014f. Watershed Boundary Dataset. Website: <http://datagateway.nrcs.usda.gov>. Accessed May 2016.
- U.S. Geological Survey (USGS). 2015a. Kentucky geologic map data. Website: <https://mrdata.usgs.gov/geology/state/state.php?state=KY>. Accessed December 2015.
- U.S. Geological Survey (USGS). 2015b. Springs – The Water Cycle. Website: <http://water.usgs.gov/edu/watercyclesprings.html>. Accessed December 2015.
- U.S. Geological Survey (USGS). 2015c. Tennessee geologic map data. Website: <https://mrdata.usgs.gov/geology/state/state.php?state=TN>. Accessed February 2016.
- U.S. Geological Survey (USGS). 2015d. Water Questions & Answers: How important is groundwater? Website: <http://water.usgs.gov/edu/qa-usage-gw.html>. Accessed January 2016.
- U.S. Geological Services (USGS). 2016. National Hydrography Dataset. Watershed Boundary Dataset. Website: <https://nhd.usgs.gov>. Accessed in August 2016.
- U.S. Global Change Research Program (USGCRP). 2014. National Climate Change Assessment. Website: <http://nca2014.globalchange.gov/downloads>. Accessed August 2016.
- U.S. News and World Report. 2016. Health, Hospital Rankings (search tool). Website: <http://health.usnews.com/best-hospitals/area>. Accessed January 2016.
- Virginia Department of Game and Inland Fisheries (VDGIF). 2016. Virginia big-eared bat (*Corynorhinus* (= *Plecotus*) *townsendii virginianus*). Available online at: <https://www.dgif.virginia.gov/wildlife/information/virginia-big-eared-bat/>. Accessed July 2016.
- Virginia Department of Mines, Minerals and Energy. 2013. Mapped Zones of Residential Damage Intensity. Website: <http://dmme.virginia.gov/dgmr/earthquake2011.shtml>. Accessed November 2015.
- Visit Mississippi. 2016. Trip Planner. Website: <http://www.visitmississippi.org/trips/step1>. Accessed January 2016.
- Voison George, Laura, Jeffrey L. Holland, and Larissa A. Thomas. 2016. Columbia Gas Transmission Mountaineer Xpress Project, Phase I Architectural Resource Survey

- Report, Cabell, Calhoun, Doddridge, Jackson, Marshall, Putnam, Ritchie, Roane, Tyler, Wetzel, and Wirt Counties, West Virginia. Prepared by Natural Resource Group, LLC, an ERM Company, Duluth, Georgia. Submitted to Columbia Gas Transmission, LLC, Charleston, West Virginia.
- Wald, D.J., Worden, B.C., Quitariano, V., Pankow, K.L. 2006. ShakeMap Manual. Website: <http://pubs.usgs.gov/tm/2005/12A01/>. Accessed April 2016.
- Weary, David J. and Daniel H. Doctor. 2014. Karst in the United States: A Digital Map Compilation and Database. Website: <http://pubs.usgs.gov/of/2014/1156/>. Accessed April 2016.
- Wellman, J.C., D.L. Combs, and S. B. Cook. 1999. Stream ecosystem assessment in the valley and ridge province and eastern highland rim of Tennessee following bridge construction/replacement. Department of Biology, Tennessee Technical University. 1999 Southern Division of the American Fisheries Society Midyear Meeting. Chattanooga, TN.
- West Virginia Center on Budget & Policy. 2014. Impacts of Gas Drilling in Wetzel County. Website: <http://www.wvpolicy.org/wp-content/uploads/2014/04/Impacts-of-Drilling-in-Wetzel-County.pdf>. Accessed May 2016.
- West Virginia Code. (1976). Chapter 19. Article 12D. The West Virginia Noxious Weed Act of 1976.
- West Virginia Code of State Regulations (WVCSR). 2014. Title 47 Legislative Rule: Series 2, Requirements Governing Water Quality Standards. Website: [http://www.dep.wv.gov/WWE/Programs/wqs/Documents/Rule%20Approved%20Letter%20and%20Rule%20Itself%202014/WVDEP\\_WQS\\_2014Tri-Review\\_FinalRule47CSR2\\_June\\_2014.pdf](http://www.dep.wv.gov/WWE/Programs/wqs/Documents/Rule%20Approved%20Letter%20and%20Rule%20Itself%202014/WVDEP_WQS_2014Tri-Review_FinalRule47CSR2_June_2014.pdf).
- West Virginia Department of Agriculture (WVDA). 2007. Title 61, Series 14A Rules Dealing with Noxious Weeds.
- West Virginia Department of Environmental Protection (WVDEP). 2012. *2012 West Virginia Integrated Water Quality Monitoring and Assessment Report*. U.S. EPA approved. Website: [http://www.dep.wv.gov/WWE/watershed/IR/Pages/303d\\_305b.aspx](http://www.dep.wv.gov/WWE/watershed/IR/Pages/303d_305b.aspx). Accessed May 2016.
- West Virginia Department of Environmental Protection (WVDEP). 2014. Water and Waste Management – 2012 GIS Shapefiles – 303D\_TMDL\_Impaired streams in West Virginia. Website: [http://www.dep.wv.gov/WWE/watershed/IR/Pages/303d\\_305b.aspx](http://www.dep.wv.gov/WWE/watershed/IR/Pages/303d_305b.aspx). Accessed May 2016.
- West Virginia Department of Environmental Protection (WVDEP). 2015a. West Virginia Mining Shapefiles. Website: <http://tagis.dep.wv.gov/home/?q=Downloads>. Accessed December 2015.

- West Virginia Department of Environmental Protection (WVDEP). 2015b. Well Location Data as of 06/22/2015. Website: <http://www.dep.wv.gov/oil-and-gas/databaseinfo/Pages/default.aspx>. Accessed November, 2015.
- West Virginia Department of Environmental Protection (WVDEP). 2015c. Database of all Leaking Underground Storage Tank sites. Website: <http://www.dep.wv.gov/dlr/oer/lustmain/Pages/default.aspx>. Accessed December 2015.
- West Virginia Department of Environmental Protection (WVDEP). 2015d. Water Quality Standards. Website: <http://www.dep.wv.gov/WWE/Programs/wqs/Pages/default.aspx>. Accessed December 2015.
- West Virginia Department of Commerce. 2016. Travel Planner. Website: [http://www.wvcommerce.org/travel/travelplanner/default.aspx?mediatrackingcode=19884LPDC\\_539NLTP](http://www.wvcommerce.org/travel/travelplanner/default.aspx?mediatrackingcode=19884LPDC_539NLTP). Accessed January 2016.
- West Virginia Department of Health and Human Resources (WVDHHR). 2003a. Source Water Assessment and Protection Program, Source Water Assessment Report, Milton Water Cabell County. PWSID: WV3300609. Website: <http://www.wvdhhr.org/oehs/eed/swap/search.cfm>. Accessed December 2015.
- West Virginia Department of Health and Human Resources (WVDHHR). 2003b. Source Water Assessment and Protection Program, Source Water Assessment Report, Pine Grove Water Works Wetzel County. PWSID: WV3300609. Website: <http://www.wvdhhr.org/oehs/eed/swap/search.cfm>. Accessed December 2015.
- West Virginia Department of Health and Human Resources (WVDHHR). 2003c. Source Water Assessment and Protection Program, Source Water Assessment Report, West Union Municipal Water Doddridge County. PWSID: WV3300609. Website: <http://www.wvdhhr.org/oehs/eed/swap/search.cfm>. Accessed December 2015.
- West Virginia Department of Health and Human Resources (WVDHHR). 2016a. Correspondence letter and GIS shapefiles from the Bureau for Public Health, Office of Environmental Health Services in response to an informational request dated March 25, 2016, concerning source water data. Letter dated March 28, 2016.
- West Virginia Department of Health and Human Resources (WVDHHR). 2016b. EMS Trauma Centers. Website: <http://www.wvoems.org/files/trauma/designations/trauma-centers-list>. Accessed August 2016.
- West Virginia Department of Transportation (WVDOT). 2012. Memorandum: Oil and Gas Road Policy. January 3, 2012. Website: <http://www.transportation.wv.gov/highways/policies/Documents/OilAndGasPolicy.pdf>. Accessed May 2016.
- West Virginia Department of Transportation (WVDOT). 2013. Memorandum: Oil and Gas Road Policy Addendum. February 5, 2013. Website: <http://www.transportation.wv.gov/highways/policies/Documents/OilAndGasPolicyAddendum.pdf>. Accessed May 2016.

- West Virginia Department of Transportation (WVDOT). 2016a. Covered Bridges. Milton Bridge (also known as the Mud River Bridge). Available at: [http://www.transportation.wv.gov/highways/bridge\\_facts/covered-bridges/Pages/Milton.aspx](http://www.transportation.wv.gov/highways/bridge_facts/covered-bridges/Pages/Milton.aspx). Accessed in August 2016.
- West Virginia Department of Transportation (WVDOT). 2016b. Traffic Counts Map. [http://www.transportation.wv.gov/highways/programplanning/preliminary\\_engineering/traffic\\_analysis/trafficvolume/Pages/default.aspx](http://www.transportation.wv.gov/highways/programplanning/preliminary_engineering/traffic_analysis/trafficvolume/Pages/default.aspx). Accessed August 2016.
- West Virginia Development Office. 2016. Available Property, Putnam Business Park. Website: [http://www.wvcommerce.org/app\\_media/developmentsite/Park%20PDF%20Brochures/Putnam%20Business%20Park.pdf](http://www.wvcommerce.org/app_media/developmentsite/Park%20PDF%20Brochures/Putnam%20Business%20Park.pdf). Accessed August, 2016.
- West Virginia Division of Natural Resources (WVDNR). 2001. West Virginia High Quality Streams, 6<sup>th</sup> edition. West Virginia Division of Natural Resources, Charleston, West Virginia.
- West Virginia Division of Natural Resources (WVDNR). 2003a. District 1 Wildlife Management Areas. Website: <http://www.wvdnr.gov/Hunting/D1WMAareas.shtm>. Accessed December 2015.
- West Virginia Division of Natural Resources (WVDNR). 2003b. District 6 Wildlife Management Areas. Website: <http://www.wvdnr.gov/hunting/D6WMAareas.shtm>. Accessed December 2015.
- West Virginia Division of Natural Resources (WVDNR). 2006. Eagles of West Virginia. WVDNR Wildlife Resources Section. Available at: <http://www.wvdnr.gov/Publications/PDFFiles/WVeaglesWR.pdf>.
- West Virginia Division of Natural Resources (WVDNR). 2003c. Wildlife Resources: Rare, Threatened, and Endangered Species. Available online at: <http://www.wvdnr.gov/wildlife/endangered.shtm>. Accessed June 2016.
- West Virginia Division of Natural Resources (WVDNR). 2015a. Consultation with B. Sargent, Wildlife Resources Section. Results of NHI database search provided on June 15, 2015.
- West Virginia Division of Natural Resources (WVDNR). 2015d. West Virginia State Wildlife Action Plan. September 1, 2015.
- West Virginia Division of Natural Resources (WVDNR). 2016a. West Virginia Wildlife Magazine. Wildlife Diversity Notebook: The American Bald Eagle. Website: [http://www.wvdnr.gov/wildlife/magazine/archive/02Fall/WDN\\_The\\_American\\_Bald\\_Eagle.shtm](http://www.wvdnr.gov/wildlife/magazine/archive/02Fall/WDN_The_American_Bald_Eagle.shtm). Accessed May 2016.
- West Virginia Division of Natural Resources (WVDNR). 2016b. Public Lands – Wildlife Management Areas Geodatabase. Downloaded from: <http://wvgis.wvu.edu/data/data.php>. Accessed November 8, 2016.

- West Virginia Division of Natural Resources (WVDNR). 2016c. Lewis Wetzel Wildlife Management Area. Website: <http://www.wvdnr.gov/hunting/D1WMAareas.shtm>. Accessed February 2016.
- West Virginia Division of Natural Resources (WVDNR). 2016d. Frozen Camp Wildlife Management Area. Website: <http://www.wvdnr.gov/hunting/D1WMAareas.shtm>. Accessed February 2016.
- West Virginia Division of Natural Resources (WVDNR). 2016e. O'Brien Lake Wildlife Management Area. Website: <http://www.wvdnr.gov/hunting/D6WMAareas.shtm>. Accessed February 2016.
- West Virginia Division of Natural Resources (WVDNR). 2016f. Morris Creek Wildlife Management Area. Website: <http://www.wvdnr.gov/hunting/D5WMAareas.shtm>. Accessed February 2016.
- West Virginia Division of Natural Resources (WVDNR). 2016g. Lantz Farm and Nature Preserve. Website: <http://www.wvdnr.gov/Hunting/D1WMAareas.shtm#10d1>. Accessed October 2016.
- West Virginia Division of Natural Resources (WVDNR). 2017. Dirty Dozen (Most Common Invasive Plants in West Virginia). Website: <http://www.wvdnr.gov/Wildlife/DirtyDozen.shtm>. Accessed January 2017.
- West Virginia Division of Highways. 2016. Meighen Bridge. Website: <http://www.highwaysthroughhistory.com/bridge.aspx?id=30>. Accessed August 2016.
- West Virginia Geological and Economic Survey (WVGES). 1969. Geologic Map of West Virginia. Map-25. Website: <http://www.wvgs.wvnet.edu/www/geology/geolgeom.htm>. Accessed June 2015.
- West Virginia Geological and Economic Survey (WVGES). 2014. Earthquake Epicenters of West Virginia: 1824 through 2014. Website: <http://www.wvgs.wvnet.edu/www/earthquakes/seismic.html>. Accessed July 2015.
- West Virginia State Police. 2016. Detachment Contact Information. Website: <http://www.wvsp.gov/contactus/detachmentContactInfo/Pages/default.aspx>. Accessed January 2016.
- West Virginia University. 1986. West Virginia GIS Technical Center. Springs. <http://wvgis.wvu.edu/data/dataset.php?ID=126>. Accessed December 2015.
- West Virginia University. 2015. Bureau of Business and Economic Research. 2015. Coal Production in West Virginia: 2015-2035. Website: [http://ftpcontent.worldnow.com/wowk/wvu\\_coal\\_report.pdf](http://ftpcontent.worldnow.com/wowk/wvu_coal_report.pdf). Accessed January 2016.
- West Virginia University. 2016. West Virginia GIS Technical Center State GIS Data Clearinghouse. Environmental Resources Data Holding. Website: [wvgis.wvu.edu/data/data/php](http://wvgis.wvu.edu/data/data/php). Access in August 2016.

- West Virginia University. 2016b. Center for Excellence in Disabilities. Website accessed: <http://wvats.cedwvu.org/recreation/wirtcounty.php>. Accessed on November 22, 2016.
- Wilber, C.G. 1983. Turbidity in the Aquatic Environment: An Environmental Factor in Fresh and Oceanic Waters. Charles C. Thomas Publishers, Springfield, IL.
- Wilcove, D.S. 1985. Nest predation in forest tracts and the decline of migratory songbirds. *Ecology*, 66(4): 1211-1214.
- Winesett, S. and S.B. Cook. 1999. The long-term influence of bridge re-construction on benthic invertebrates in two Tennessee ecoregions. Department of Biology, Tennessee Technical University. 1999 Southern Division of American Fisheries Society Midyear Meeting. Chattanooga, TN.
- Wood, C. 2016. Telephone and email communication from April 1 to April 5, between S. Pesek (ERM) and Cindy Wood (Planner, Metro Planning Department 615-862-7166).
- Wood, P.B., J. Sheehan, P. Keyser, D. Buehler, J. Larkin, A. Rodewald, S. Stoleson, T.B., Wigley, J. Mizel, T. Boves, G. George, M. Bakermans, T. Beachy, A. Evans, M. McDermott, F. Newell, K. Perkins, and M. White. 2013. Management Guidelines for Enhancing Cerulean Warbler breeding habitat in Appalachian hardwood forests. Published by American Bird Conservancy. Available at [http://amjv.org/documents/cerulean\\_guide\\_1-pg\\_layout.pdf](http://amjv.org/documents/cerulean_guide_1-pg_layout.pdf).
- Woods, A.J., J.M. Omernik, and D.D. Brown. 1999. Level III and IV Ecoregions of Delaware, Maryland, Pennsylvania, Virginia, and West Virginia. U.S. Environmental Protection Agency, Corvallis, Oregon.

**APPENDIX P**  
**List of Preparers**



**APPENDIX P – LIST OF PREPARERS**

**Federal Energy Regulatory Commission**

**Yuan, Julia –Project Manager, Water Resources, Wetlands, Vegetation, Wildlife, T&E and Other Special Status Species**

M.P.S. Natural Resources Management, 2003, College of Environmental Science and Forestry, State University of New York

B.S. Environmental Biology/Forestry, 1999, College of Environmental Science and Forestry, State University of New York

**Johnson, Gertrude F. – Deputy Project Manager**

B.S. Mechanical Engineering, 2003, Virginia Commonwealth University

**Boros, Laurie – Cultural Resources**

B.A. Anthropology/Archaeology, 1980, Queens College, City University of New York

**Cotton, Doug – Land Use, Socioeconomics**

M.S. University of Wisconsin-Madison, 1980, Urban & Regional Planning

B.A. University of Massachusetts-Amherst, 1977, Geography

**Jernigan, Anthony – Geology, Soils**

B.A. Geophysical Sciences, 1995, The University of Chicago

**Kopka, Robert – Soils**

M.S. Soil Science, 1990, Cornell University

B.S. Agronomy, 1987, Delaware Valley College of Science and Agriculture

**Kragie, S. Xiah – Air Quality, Noise, Reliability and Safety**

M.A. Geochemistry, 2013, Columbia University

M.P.H. Global Environmental Health, 2008, Emory University

B.S. Civil & Environmental Engineering, 2006, University of Maryland, College Park

**Burns & McDonnell Engineering, Inc.**

**Susemihl, Robyn – Project Manager, Introduction, Proposed Action, Cumulative Impacts**

B.S. Zoology, 2001, College of Science and Mathematics, Auburn University

**Sauter, L.J. – Senior Technical Consultant Introduction, Proposed Action, Alternatives, Waterbodies, Cumulative Impacts**

M.S. Engineering/Environmental Chemistry, University of Maryland

B.S. Civil Engineering, University of Maryland

**Thomas, D.P. – Senior Project Manager, Alternatives, T&E and Other Special Status Species, Wildlife**

M.S. Zoology, Auburn University

B.S. Biology, David Lipscomb University

**Bell, Jennifer – Senior Environmental Scientist, Socioeconomics, Land Use**  
Master of Urban and Regional Planning (M.U.R.P.), Portland State University  
B.S. Environmental Studies, University of Kansas

**Gilstrap, Sarah – Senior Environmental Scientist, Geology, Soils, Conclusions**  
M.S. Environmental Science, University of Kansas  
B.S. Chemistry and Biology, Drury University

**Clark, Samantha – Senior Environmental Scientist, Vegetation**  
B.A. Biology, Lawrence University

**Gottsfeld, Andrew – Senior Cultural Resources Specialist, Cultural Resources**  
M.A. Anthropology, University of Kansas  
B.A. Anthropology, Northern Arizona University

**Hess, Marc – Senior Project Manager, Wetlands, Cumulative Impacts**  
M.S. Wildlife and Fisheries Sciences, Texas A&M University  
B.S. Wildlife and Fisheries Sciences, Texas A&M University

**Robbins, Emily – Staff Environmental Engineer, Air & Noise, Cumulative Impacts**  
M.S. Environmental Engineering, University of Kansas  
B.S. Civil Engineering, University of Kansas

**Brewe, Ian – Senior Noise Specialist, Air & Noise, Cumulative Impacts**  
B.S. Mathematics, Indiana University

**Barton, Carrie – Quality Assurance Manager, Various sections**  
M.S. Marine Geology/Geochemistry, Massachusetts Institute of Technology  
B.A. Earth Science, University of California at Berkeley

**Woehler, Angie- Assistant Environmental Scientist, Socioeconomics**  
M.S. Environmental Biology, Regis University  
B.S. Biology, Metropolitan State University of Denver

*Burns & McDonnell Engineering, Inc. is a third party contractor assisting the Commission staff in reviewing the environmental aspects of the project application and preparing the environmental documents required by NEPA. Third party contractors are selected by Commission staff and funded by project applicants. Per the procedures in 40 CFR 1506.5(c), third party contractors execute a disclosure statement specifying that they have no financial or other conflicting interest in the outcome of the project. Third party contractors are required to self-report any changes in financial situation and to refresh their disclosure statements annually. The Commission staff solely directs the scope, content, quality, and schedule of the contractor's work. The Commission staff independently evaluates the results of the third-party contractor's work and the Commission, through its staff, bears ultimate responsibility for full compliance with the requirements of NEPA.*