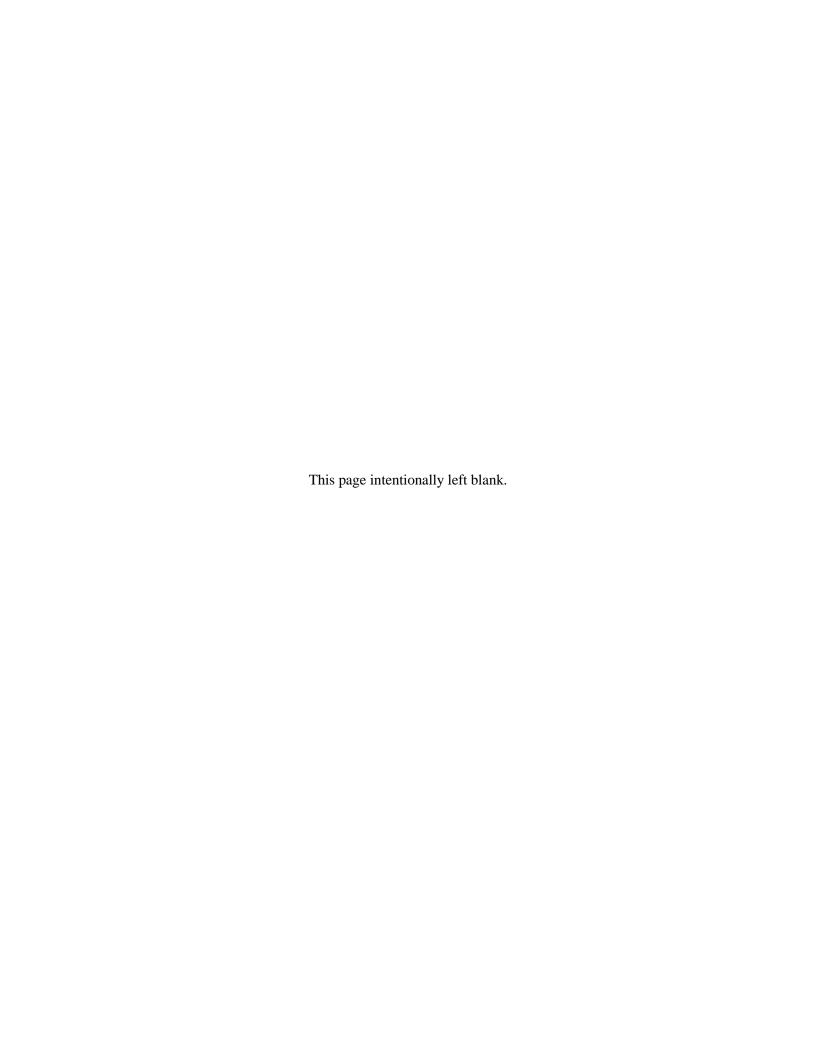
Appendix K

References



## References

- Allen, Williford & Seale Inc. 2001. Natural Gas Pipeline Impact Study, Prepared for the INGAA Foundation.
- Anspaugh, L.R. 2012. Scientific Issues Concerning Radon in Natural Gas. Texas Eastern Transmission, LP and Algonquin Gas Transmission, LLC New Jersey–New York Expansion Project. FERC Docket No. CP11-56.
- Bailey, R.G. 1998. Ecoregions Map of North America. Explanatory Note. Misc. Publ. 1548. USDA Forest Service, Washington D.C. 10 pp.
- Bennett, A.F. 1991. Roads, Roadsides, and Wildlife Conservation: A Review. Pages 99-117 in D.A. Saunders and R.J. Hobbs (editors). Nature Conservation 2: The Role of Corridors.
- Burge and Kitech. 2009. "Methods for predicting and evaluating noise from horizontal directional drilling (HDD) equipment." Proceedings of InterNoise 2009.
- Butchkowski, Eileen and Turner, G. 2010. Pennsylvania Game Commission species fact sheet-Northern Flying Squirrel (Glaucotis sabrinus macrotis). Accessible at: www.portal. state.pa.us/portal/server.pt/.../northern flying squirrel pdf.
- Butchkowski, Eileen. 2014. Pennsylvania Game Commission species fact sheet- Eastern small footed bat (Myotis leibii). Available at URL: www.portal.state.pa.us/portal/server.pt/document/.../small-footed bat pdf.
- CEQ (Council on Environmental Quality). 1997. Environmental Justice Guidance under the National Environmental Policy Act. Executive Office of the President. Washington, D.C. December 10. Available online at: http://www.epa.gov/compliance/resources/policies/ej/index.html
- Collins, H.H. Jr. 1981. The Complete Field Guide to North American Wildlife. Eastern Edition. Harper & Row Publishers, NY.
- Cornell Lab of Ornithology. 2014. A Land Manager's Guide to Improving Habitat for Scarlet Tanagers and Other Forest Interior Birds.
- Cornell Lab of Ornithology. 2015. American Bittern. All About Birds. Website. Accessed on 4/2016. Accessible at: https://www.allaboutbirds.org/guide/American Bittern/lifehistory.
- Cowardin, L.M., Charter, V., Golet, F.C., LaRoe, E.T. 1979. Classification of Wetlands and Deepwater Habitats of the United States, Report No. FWS/OBL-97/31, U. S. Department of the Interior, Fish and Wildlife Service, Washington District of Columbia.
- Crisswell, R. 2012. Plight of the Eastern Redbelly Turtle. Pennsylvania Angler and Boater. January/February 2012. Pennsylvania Fish and Boat Commission.
- CWFNJ (Conserve Wildlife Foundation of New Jersey). 2012. New Jersey's Endangered and Threatened Wildlife. Last updated on April 2, 2012. Accessible at: http://www.njfishandwildlife.com/tandespp.htm. Accessed on January 31, 2015.

- CWFNJ. 2013. NJ Endangered and Nongame Species Program: Species Status Listing. Last updated on December 2, 2013. Accessed at: http://www.conservewildlifenj.org/downloads/cwnj 481.pdf. Accessed on January 31, 2015.
- CWFNJ. 2016a. New Jersey Endangered and Threatened Species Field Guide: Vesper Sparrow. Last Updated 2003. Accessible at http://www.conservewildlifenj.org/species/fieldguide/view/Pooecetes%20graminus/. Accessed December 2016.
- CWFNJ. 2016b New Jersey Endangered and Threatened Species Field Guide: Long-Eared Owl. Last Updated 2010. Accessible at http://www.conservewildlifenj.org/species/fieldguide/view/Asio%20otus/. Accessed December 1, 2016.
- Daeschler, T. 2015. Associate Curator of Vertebrate Zoology at the Academy of Natural Sciences in Philadelphia as well as Professor in the Biodiversity Department of Drexel University. Pennsylvania. (personnel communication).
- Diskin, B., Friedman, J., Peppas, S., and Peppas, S. 2011. The Effect of Natural Gas Pipelines on Residential Value. Right of Way. January/February.
- DOT (U.S. Department of Transportation). 2012. Leak Detection Study DTPH56-11-D-000001. U.S. Department of Transportation Pipeline and Hazardous Materials Safety Administration. Final Report No. 12-173. December 10, 2012.
- DOT PHMSA (U.S. Department of Transportation, Pipeline and Hazardous Materials Safety Administration). 2015a. Significant Pipeline Incidents by Cause; National Gas Transmission: Significant Incident Details: 1995-2014. Accessed July 2015.
- DOT PHMSA. 2015b. Consequences to the Public and the Pipeline Industry; National Gas Transmission: Consequences Summary Statistics: 2010-2014. Accessed July 2015.
- DRBC (Delaware River Basin Commission). 2015. Basin Information. Available at: http://www.state.nj.us/drbc/basin/. Accessed July 2, 2015.
- Eastern Research Group, Inc. 1999. Estimating Particulate Matter Emissions from Construction Operations. EPA Contract 68-D7-0068. September 30, 1999.
- Ebert, Janet. 2015. PennEast Rare Plant Survey Report- Rare Plant Search of 7 Polygons for PNDI #022407. Prepared for and Submitted to AECOM.
- Econsult (Econsult Solutions and Drexel University). 2015. Economic Impact Report and Analysis: PennEast Pipeline Project Economic Impact Analysis. Available at: http://penneastpipeline.com/economic-impact-analysis/
- EDR (Environmental Data Resources, Inc.). 2015. EDR DataMap Environmental Atlas Project Reports. February 12, 2015.
- EPA (U.S. Environmental Protection Agency). 1992. SW-846 Test Method 1311: Toxicity Characteristic Leaching Procedure. Accessed on November 21, 2016 at: https://www.epa.gov/hw-sw846/sw-846-test-method-1311-toxicity-characteristic-leaching-procedure.

- EPA. 1995. Protocol for Equipment Leak Emission Estimates. Office of Air Quality Planning and Standards (OAQPS). EPA-453/R-95-017. November 1995.
- EPA. 1998. Final Guidance for Incorporating Environmental Justice Concerns in EPA's NEPA Compliance Analyses. April. Available online at: http://www.epa.gov/compliance/resources/policies/ej/index.html.
- EPA. 1999. Consideration of cumulative impacts in EPA review of NEPA documents. U.S. Environmental Protection Agency, Office of Federal Activities (2252A). Accessed online at https://www.epa.gov/sites/production/files/2014-08/documents/cumulative.pdf
- EPA. 2010. Waterbody quality assessment report for Jacobs Creek. Available at https://ofmpub.epa.gov/tmdl\_waters10/attains\_waterbody.control?p\_list\_id=NJ02040105210 060-01&p state=NJ&p cycle=2010. Accessed on March 16, 2016.
- EPA. 2011. Additional Clarification Regarding Applicability of Appendix W Modeling Guidance for the 1-hour NO2 NAAQS. Tyler Fox memorandum, dated March 1, 2011. U.S. Environmental Protection Agency, Research Triangle Park, NC.
- EPA. 2012. Inventory of U.S. Greenhouse Gas Emissions and Sinks: 1990-2010. U.S. Environmental Protection Agency, Washington, DC. U.S. EPA #430-R-12-001 (PDF).
- EPA. 2014. Oil and Natural Gas Sector Leaks. Report for Oil and Natural Gas Sector Leaks Review Panel. U.S. EPA Office of Air Quality Planning and Standards (OAQPS). April 2014.
- FEMA (Federal Emergency Management Agency). 1992. Earthquake Resistant Construction of Gas and Liquid Fuel Pipeline Systems Serving, or Regulated by, the Federal Government, Earthquake Hazard Reduction Series 67, US Department of Commerce
- FERC. 2008. Mid Continent Express Final Environmental Impact Statement. (Docket No. CP08-6.). Washington, DC.
- FERC. 2013. Wetland and Waterbody Construction and Mitigation Procedures. Office of Energy Projects. Washington, D.C. May 2013.
- FERC. 2014. Constitution Pipeline and Wright Interconnect Projects. Final Environmental Impact Statement Volume 1. FERC EIS 0249F. October. Available online at: http://www.ferc.gov/industries/gas/enviro/eis/2014/02-12-14-eis.asp
- FERC. 2016. Atlantic Sunrise Final EIS. Issued December 30, 2016. FERC/EIS-0269F.
- FHWA (Federal Highway Administration). 2006. FHWA Roadway Construction Noise Model User's Guide, FHWA-HEP-05-054, January.
- Forman R.T., and L.E. Alexander. 1998. Roads and Their Major Ecological Effects. Annual Review of Ecology and Systematics 29:207-231.
- Fruits, E. 2008. The Impact of the Presence of a Natural Gas Pipeline on Residential Property Values. Portland State University. November.

- FWS (U.S. Fish and Wildlife Service). 1993. Northeastern Bulrush (Scirpus ancistrochaetus). Recovery Plan. Prepared by Carole K. Copeyon. Pennsylvanial Field Office, USFWS for Norheast Region USFWS. Accessible at: http://ecos.fws.gov/docs/recovery\_plan/930825.pdf
- FWS. 2001. Bog Turtle (Clemmys muhlenbergii) Northern Population Recovery Plan. Hadley, Massachusetts. 83pp + appendices.
- FWS. 2006. Northeastern Bulrush (Scirpus ancistrochaetus). Fact sheet. Accessible at: https://www.fws.gov/northeast/pdf/bulrush.pdf
- FWS. 2007. Indiana Bat (Myotis sodalis) Draft Recovery Plan: First Revision. USFWS, Fort Snelling, MN.
- FWS. 2009. National Wetlands Inventory website. U.S. Department of the Interior, Fish and Wildlife Service, Washington, D.C. Accessed at http://www.fws.gov/wetlands/.
- FWS. 2014a. Trust Resource List for PennEast Pipeline located in Hunterdon and Mercer counties, NJ, and Bucks, Carbon, Luzerne, and Northampton counties, PA. August 26, 2014.
- FWS. 2014b. New Jersey Field Office website, Last Updated September 2014. Bog Turtle. Accessible at: http://www.fws.gov/northeast/njfieldoffice/endangered/bogturtle.html. Accessed February 6, 2015.
- FWS. 2015. Fact Sheet: Northern Long-Eared Bat Myotis septentrionalis. USFWS. Midwest Region. Accessible at: https://www.fws.gov/Midwest/Endangered/mammals/nleb/nlebFactSheet.html
- FWS. 2016a. Optional Framework to Streamline Section 7 Consultation for the Northern Longeared Bat. January 2016. Available at: https://www.fws.gov/midwest/endangered/mammals/nleb/KeyFinal4dNLEBFedProjects.htm 1.
- FWS. 2016b. Programmatic Biological Opinion on Final 4(d) Rule for the Northern Long-Eared Bat and Activities Excepted from Take Prohibitions. USFWS Regions 2, 3, 4, 5, and 6. Prepared by USFWS Midwest Regional Office, Bloomington Minnesota, January 5, 2016.
- FWS. 2016c. Rusty Patched Bumble Bee (Bombus affinis) Fact Sheet. Available at: https://www.fws.gov/midwest/endangered/insects/rpbb/pdf/RPBBFactSheet21Sept2016.pdf. Accessed October 24, 2016.
- FWS. 2016d. Species Profile for rusty patched bumble bee (Bombus affinis). Environmental Conservation Online System (ECOS). Available at: https://ecos.fws.gov/ecp0/profile/speciesProfile?spcode=I0WI. Accessed October 24, 2016.
- FWS. n.d. Listed Animals. Available at: http://ecos.fws.gov/tess\_public/reports/ad-hoc-speciesreport?kingdom=V&kingdom=I&status=E&status=T&status=EmE&status=EmT&status=EXPE&status=EXPN&status=SAE&status=SAT&mapstatus=3&fcrithab=on&fstatus=on&fspecrule=on&finvpop=on&fgroup=on&header=Listed+Animals. Accessed January 31, 2015.

- Gallagher, W.D. 2015. Paleontology Professor, Rider University. New Jersey. (personal communication)
- Gishlick, A. 2015. Paleontology Professor at Bloomsburg University. Pennsylvania. (personnel communication)
- Haffner, C. and D. Gross. 2014. American Bittern, Botaurus lentiginosus. Connecting you with wildlife! Pennsylvania Game Commission. Accessible at: https://www.portal.state.pa.us/portal/server.pt/.../american\_bittern\_pdf.
- Hay, K.G. 1994. Greenways: Wildlife and Natural Gas Pipeline Corridors. The Conservation Fund, Arlington, Virginia.
- Helms, J. 1998. The Dictionary of Forestry. The Society of American Foresters. Copyright 1998.
- ISO (International Organization for Standardization). 1996. "9613-2: Acoustics Attenuation of sound during propagation outdoors Part 2: General method of calculation." ISO 9613-2:1996(E).
- Jacobson, M., B. Lord, M. McDill, A. Kleit, T. Engelder, and A. Broucek. 2010. An Examination of Current and Future Costs and Revenues from Forest Products and Oil, Gas, and Mineral Extraction on Pennsylvania Game Commission Lands. Pennsylvania State University. Submitted to the Pennsylvania Legislative Budget and Finance Committee. January 14, 2010. Available URL: http://lbfc.legis.state.pa.us/Resources/Documents/Reports/304.pdf. Accessed Feb. 2, 2015.
- 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." American Gas Association. NG-18 Report No. 158, Pipeline Research Committee of the American Gas Association.
- Khorsand, S., 2001, Groundwater Resources of the New Jersey Highlands. Available at http://www.crssa.rutgers.edu/advgeo/Sanaz%20SSA.htm. Accessed on March 16, 2016
- Kinsley, B. 2014. Cicindela marginipennis. The IUCN Red List of Threatened Species 2014: e.T4851A21424216.http://dx.doi.org/10.2305/IUCN.UK.2014-1.RLTS.T4851A21424216.en. Downloaded on 18 May 2016.
- Lazzari, M.A., C.C. O'Herron, and R.W. Hastings. 1986. Occurrence of Juvenile Atlantic Sturgeon, Acipenser oxyrhynchus, in the Upper Tidal Delaware River. Estuaries. 9(4) Part B. pp. 356-361. (Abstract). Accessible at: http://www.jstor.org/stable/1351415?seq=1#page\_scan\_tab\_contents.
- Leedy, D.L. 1975. Highway-Wildlife Relationships. Volume 1: A State-of-the-Art Report.
- LVPC (Lehigh Valley Planning Comission). 2007. Lehigh valley Greenways Plan; A Regional Greenways Plan for Lehigh and Northampton Counties. Adopted May, 2007. Available online at http://www.lvpc.org/pdf/greenwayPlan/lvgp02.pdf. Last Accessed January 2017.

- LVPC. 2010. Comprehensive Plan; The Lehigh Valley ... 2030. Adopted April 2005, Data and Map Updates June 2010. Available online at: http://www.lvpc.org/pdf/lv2030/compPlan01.pdf. Last accessed January 2017.
- Markuson, Jeremy. 2014. U.S. Fish and Wildlife Service, New Jersey Ecological Services Field Office, Pleasantville, NJ. Email communication on September 22, 2014, with Susan Quackenbush, URS Corporation, RE: Re: PennEast Pipeline USFWS NJ Field Office ESA Section 7 Consultation.
- National Education Association Research. 2014. Rankings & Estimates. Rankings of the States 2013 and Estimates of School Statistics 2014. NEA Research. March. Available online at: http://nces.ed.gov/ccd/districtsearch/
- New Jersey Audubon Society. 2014a. New Jersey's Wildlife. http://www.njaudubon.org/ SectionNatureNotes/NewJerseysWildlife.aspx.
- New Jersey Audubon Society. 2014b. Important Bird and Birding Areas (IBBA) Site Guide. http://www.njaudubon.org/SectionIBBA/IBBASiteGuide.aspx?sk=2938.
- New Jersey Division of Taxation. 2014. Sales and Use Tax. Available online at: http://www.state.nj.us/treasury/taxation/
- NHD (National Hydrography Dataset). 2015. U.S. Geological Survey, Washington D.C. Accessed at http://nhd.usgs.gov/data.html.
- NJAC (New Jersey Administrative Code). 2009. NJAC 7:9B. Surface Water Quality Standards. Available at: http://www.state.nj.us/dep/wms/bwqsa/December%202009%20SWQS.pdf. Accessed on January 21, 2015.
- NJDEP (New Jersey Department of Environmental Protection). 1985. Sole Source Aquifer Petition. Northwest New Jersey 15 Basin Aquifer. Accessed at: http://www.epa.gov/region02/water/aquifer/basin/15basin.htm on August 1, 2015.
- NJDEP. 1986. NJDEP Wetlands of Hunterdon and Mercer Counties, New Jersey, 1986. New Jersey Department of Environmental Protection, Office of Information Resources Management, Bureau of Geographic Information and Analysis. Trenton, NJ. Accessed at http://www.state.nj.us/dep/gis
- NJDEP. 1998. Surficial Aquifers of New Jersey, Series DGS98-5, Edition 20050810 (Geol\_surficial\_aquifer). Available at: https://njgin.state.nj.us/NJ\_NJGINExplorer/ShowMetadata.jsp?docId=06511F28-222F-11DF-A53E-0003BA2C919E. Accessed on February 1, 2015.
- NJDEP. 2003. Physiographic Provinces of New Jersey. Available at: http://www.nj.gov/dep/njgs/enviroed/infocirc/provinces.pdf. In: PennEast, 2015. PennEast Pipeline Project Resource Report 2: *Water Use and Quality* FERC Docket No. CP15-\_\_-000. Final FERC Section 7c Application. September 2015.

- NJDEP. 2004. A North Jersey Homeowner's Guide to Radioactivity in Drinking Water: Uranium. Acessable online at http://www.state.nj.us/dep/rpp/rms/agreedown/urwater.pdf. Accessed December 2016.
- NJDEP. 2005. Available at: http://www.state.nj.us/dep/fgw/pdf/fishbrochurenorth.pdf. http://www.state.nj.us/dep/fgw/chkfish.htm
- NJDEP. 2010. Contributions to the Geology and Hydrogeology of the Newark Basin, Bulletin 77
- NJDEP. 2011. Public-Community Water-Supply Wells of New Jersey. http://www.state.nj.us/dep/njgs/geodata/dgs97-1md.htm. Accessed July 2, 2015
- NJDEP. 2014a. Currently Known of Groundwater Contamination (CKE) for New Jersey. http://www.nj.gov/dep/gis/stateshp.html#GWCKE. Accessed April 1, 2015.
- NJDEP. 2014b. State Forestry Services. No Net Loss. http://www.state.nj.us/dep/parksandforests/forest/community/No Net Loss.htm. Last Updated December 2014; Accessed June 14, 2015.
- NJDEP. 2015a. New Jersey Division of Water Supply and Geoscience. Survey Programs. Available at: http://www.state.nj.us/dep/njgs/functions/. Accessed on August 2, 2015
- NJDEP. 2015b. GeoWeb Database on Surficial and Bedrock Aquifers http://www.state.nj.us/dep/gis/stateshp.html.
- NJDEP. 2015c. New Jersey Integrated Report, Appendix A: 2012 Final Integrated List of Waters (Assessment Unit Summary List). July 2014. http://www.state.nj.us/dep/wms/bwqsa/2012\_final\_integrated\_list.pdf. Accessed July 2, 2015.
- NJDEP. 2016. A Homeowner's Guide to Arsenic in Drinking Water. Accessed on November 21, 2016 at: http://www.state.nj.us/dep/dsr/arsenic/guide.htm.
- NJDEP-DFW. 2002a. Bobcat, (Lynx rufus). Accessed at: http://www.njfishandwildlife.com/ensp/pdf/end-thrtened/bobcat.pdf. Accessed on: February 6, 2015.
- NJDEP-DFW. 2002b. Wood Turtle, (Glyptemys insculpta). Accessed at: http://www.njfishandwildlife.com/ensp/pdf/end-thrtened/woodtrtl.pdf. Accessed on: February 6, 2015.
- NJDEP-DFW. 2002c. Long-tailed Salamander, (Eurycea longicauda longicauda). Accessed at: http://www.njfishandwildlife.com/ensp/pdf/end-thrtened/lngtlsalamander.pdf. Accessed on: February 6, 2015.
- NJDEP-DFW. 2002d. Southern Gray Treefrog, (Hyla chrysoscelis). http://www.njfishandwildlife.com/ensp/pdf/end-thrtened/sograytreefrog.pdf. Accessed on: May 17, 2016.
- NJDEP-DFW. 2002e. American Kestrel (Falco sparverius). Accessible at: http://www.njfishandwildlife.com/ensp/pdf/end-thrtened/kestrel.pdf. Accessed on February 5, 2015.
- NJDEP-DFW. 2002f. Barred Owl (Strix varia). Accessed at: http://www.njfishandwildlife.com/ensp/pdf/end-thrtened/bobolink.pdf. Accessed on February 5, 2015.

- NJDEP-DFW. 2002g. Bobolink (Dolichonyx oryzivorus). Accessed at: http://www.njfishandwildlife.com/ensp/pdf/end-thrtened/bobolink.pdf. Accessed on February 5, 2015.
- NJDEP-DFW. 2002h. Grasshopper Sparrow, (Ammodramus savannarum). Accessed at: http://www.njfishandwildlife.com/ensp/pdf/end-thrtened/grasshoppersparrow.pdf. Accessed on: February 5, 2015.
- NJDEP-DFW. 2002i. Red-shouldered Hawk, (Buteo lineatus). Accessed at: http://www.njfishandwildlife.com/ensp/pdf/end-thrtened/redshldhwk.pdf. Accessed on: February 5, 2015.
- NJDEP-DFW. 2002j. Savannah Sparrow, (Passerculus sandwichensis). Accessed at: http://www.njfishandwildlife.com/ensp/pdf/end-thrtened/savsparrow.pdf. Accessed on: February 5, 2015.
- NJDEP-DFW. 2010. New Jersey's Vernal Pool Project. http://www.njfishandwildlife.com/ensp/vrnpoolupdate.htm Last updated in September 2010.
- NJDEP-ENSP (Endangered and Nongame Species Program). 2015. NJ ENSP's Review of PennEast Pipeline Proposed Natural Gas Pipeline within New Jersey. Reviewed by ENSP Staff (K. Schantz). March 12, 2015.
- NJDOT (New Jersey Department of Transportation). 2016. Commuter Information, Construction Updates. December 7, 2015. Accessed online at http://www.state.nj.us/transportation/commuter/roads/
- NJGS (New Jersey Geological Survey). 2007. Arsenic Water Treatment for Residential Wells in New Jersey. NJGS Information Circular. Accessed on November 21, 2016 at: http://www.nj.gov/dep/pwta/Arsenic Treatment.pdf.
- NJHWPPC (New Jersey Highlands Water Protection and Planning Council). 2008. Highlands Region Master Plan. Last amended 2011. Available online at http://www.highlands.state.nj.us/njhighlands/master/rmp/final/highlands\_rmp\_112008.pdf. Accessed on January 2017.
- NJNHP. 2015. State of New Jersey: Department of Environmental Protection, Trenton, NJ. Agency Response Letter dated February 3, 2015 to Susan Quackenbush, URS Corporation, RE: PennEast Pipeline Project (New Jersey Section). NHP File Number: 14-4007552-6246.
- NMFS (National Marine Fisheries Service). 1998. Final Recovery Plan for the Shortnose Sturgeon. Acipenser brevirostrum. U.S. Department of Commerce. National Oceanic and Atmospheric Administration. Available at: http://www.nmfs.noaa.gov/pr/pdfs/recovery/sturgeon\_shortnose.pdf.
- NMFS. 2014. Letter dated September 18, 2014 from Karen Greene, Reviewing Biologist, NOAA NMFS Northeast Fisheries Science Center, to Bernard Holcomb, URS Corporation.
- NMFS. 2016. National Marine Fisheries Service Endangered Species Act Section 7 Biological Opinion -Permit No. 19255; Atlantic and shortnose sturgeon. Accessed April 14, 2016 at: http://www.nmfs.noaa.gov/pr/consultation/opinions/19255 final biop 02.05.16.pdf

- NOAA (National Oceanic and Atmospheric Administration). 2008. Shortnose Sturgeon (Acipenser brevirostrum). Office of Protective Resources. Species information webpage. Accessed 4/2016 at: http://pbadupws.nrc.gov/ docs/ML0833/ML083380572.pdf.
- NOAA Essential Fish Habitat Mapper v3.0. National Marine Fisheries Service: Habitat Conservation. Available at: http://www.habitat.noaa.gov/protection/efh/efhmapper/index.html
- NOAA. 2014. Estimated Range of Atlantic Sturgeon Distinct Population Segments (DPSs). Available at: http://www.greateratlantic.fisheries.noaa.gov/protected/section7/guidance/maps/atlanticsturgeon.pdf.
- NOAA. 2015a. Koppen-Geiger Climate Classification 2007. http://sos.noaa.gov/Datasets/dataset.php?id=418. Accessed March 2016.
- NOAA. 2015b. 2013 Flash Flood/River Fatalities; Lightning Fatalities; and Tornado Fatalities. Accessed July 2015.
- NOAA. 2015c. NOAA Fisheries. Proactive Conservation Program: Species of Concern. Updated on February 4, 2015. Available at:http://www.nmfs.noaa.gov/pr/species/concern/. Accessed on February 4, 2015.
- NPS (National Park Service). 2015. Nationwide Rivers Inventory. Pennsylvania Segments. http://www.nps.gov/ncrc/programs/rtca/nri/states/pa.html. Accessed February 3, 2015.
- NRCC (Northeast Regional Climate Center). 2015. US Comparative Climatic Data. http://www.nrcc.cornell.edu/wxstation/comparative/comparative.html#. Accessed March 2016.
- NRCS (Natural Resource Conservation Service). 2016. Working Lands for Wildlife Bog Turtle. Available online at: http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/programs/initia tives/?cid=stelprdb1047032
- Ontario Ministry of Natural Resources. 2000. Conserving the forest interior: A threatened wildlife habitat. Ohio Extension Notes, Land Owner Resource Centre, Manotick, Ontario.
- PADCNR (Pennsylvania Department of Conservation and Natural Resources). 2000. Physiographic Provinces of Pennsylvania. Available at: http://www.dcnr.state.pa.us/cs/groups/public/ documents/document/dcnr\_016202.pdf. Accessed on February 1, 2015.
- PADCNR. 2009. Guidelines for Right-of-Way Development on Pennsylvania State Forest and State Park Lands. June 17, 2009. Accessed on April 4, 2016 online at: http://www.dcnr.state.pa.us/cs/groups/public/documents/document/dcnr\_003513.pdf.
- PADCNR. 2012. Hickory Run State Park. Accessed online at http://www.dcnr.state.pa.us/stateparks/findapark/hickoryrun/
- PADCNR. 2013. Guidelines for Administering O&G Activity on State Forest Lands.

- PADCNR. 2015a. PAGEODE (Pennsylvania Geologic Data Exploration). Interactive on-line map of geological resources. Available at: http://www.gis.dcnr.state.pa.us/geology/index.html. Accessed on August 2, 2015.
- PADCNR. 2015b. Mineral Industries. Available at: http://dcnr.state.pa.us/topogeo/econresource/mineral\_industries/index.htm. Accessed on August 2, 2015.
- PADCNR. 2015c. Pre-Survey Meeting at Weiser State Forest Office, March 18, 2015. Minutes in Project Technical File.
- PADCNR. 2015d. Pennsylvania Groundwater Information System (PaGWIS). http://www.dcnr.state.pa.us/topogeo/groundwater/pagwis/index.htm. Accessed February 6, 2015.
- PADEP (Pennsylvania Department of Environmental Protection). 2015. Land Recycling Cleanup Locations. http://www.pasda.psu.edu/uci/FullMetadataDisplay.aspx?file=LandRecycling CleanupLocations 2015 01.xml. Accessed April 1, 2015.
- Palmer, D. 2008. Updated Market Analysis: The Impact of Natural Gas Pipelines on Property Values. PGP Valuation. Prepared for Palomar Gas Transmission LLC. February.
- Pearce, D. and Moran, D. 1994. The economic value of biodiversity. Earthscan Publications, London.
- PennDOT (Pennsylvania Department of Transportation). 2017. 2017-2020 Transportation Improvement Plan. Accessed online at http://www.projects.penndot.gov/projects/TIP.aspx.
- Pennsylvania Code. 1994. Safe Drinking Water, Title 25, Chapter 109. Wellhead Protection Program. Available at: http://www.pacode.com/secure/data/025/chapter109/s109.713.html. Accessed on September 16, 2015.
- Pennsylvania Code. 2014. Endangered Species. Title 58, Chapter 75. Updated July 5, 2014. Available at: http://www.pacode.com/secure/data/058/chapter75/chap75toc.html. Accessed on February 1, 2015.
- Pennsylvania Department of Revenue. 2015a. Sales, Use, and Hotel Occupancy Tax. Available online at: http://www.revenue.pa.gov/Pages/default.aspx#.VoxWQnlIh9M
- Pennsylvania Department of Revenue. 2015b. Public Utility Realty Tax. Available online at: http://www.revenue.pa.gov/Pages/default.aspx#.VoxWQnlIh9M
- PFBC (Pennsylvania Fish and Boat Commission). 2010. Guidelines for Timber Rattlesnake Habitat Creation. 7 Pages. Bellefonte, PA.
- PFBC. 2011a. Species Action Plan, Bog Turtle. Natural Diversity Section.
- PFBC. 2011b. Species Action Plan, Timber Rattlesnake. Natural Diversity Section.
- PFBC. 2014. Letter dated September 8, 2014 from Heather A. Smiles, Chief, Natural Gas Section, to Bernard Holcomb, URS Corporation.

- PFBC. 2015a Wild Trout Waters, Natural Reproduction, January 2015. http://fishandboat.com/trout\_repro.htm. Accessed January 2015.
- PFBC. 2015b. Wild Trout Waters. http://fishandboat.com/wild98.htm. Accessed January 2015.
- PFBC. 2015c. Class A Waters, December 2013. http://fishandboat.com/classa.pdf. Accessed January 2015.
- PFBC. 2015d. Approved Trout Streams, January 2015. http://www.fish.state.pa.us/troutstreams.htm, http://www.pasda.psu.edu/uci/MetadataDisplay.aspx?entry=PASDA&file=Approved\_Trout\_Waters201501.xml&dataset=963. Accessed January 2015.
- PFBC. 2015e. Trout Stocked Streams. http://fishandboat.com/stocked.htm. Accessed January 2015.
- PFBC. 2015f. Warmwater/Coolwater Fisheries. http://fishandboat.com/images/pages/qa/fishing/wwwwhtm. Accessed January 2015.
- PFBC. 2015g. Pennsylvania Fishes. http://www.fish.state.pa.us/fishes.htm. Accessed on January 27, 2015.
- PFBC. 2016. Bog Turtles Slipping Away. Nongame and Endangered Species Unit. Prepared for the PFBC by Andrew L. Shiels.
- PGC (Pennsylvania Game Commission). 2008. Allegheny Woodrat (Neotoma magister). The Environmental Review Process in Pennsylvania. Provided with Project consultation from PGC (Taucher 2014).
- PGC. 2013. Wildlife in Pennsylvania. Available at: http://www.portal.state.pa.us/portal/server.pt/community/wildlife/9109. Accessed on August 19, 2015.
- PGC. 2013b. Threatened and Endangered Species. Available at: http://www.portal.state.pa.us/portal/server.pt?open=514&objID=621014&mode=2. Accessed on February 1, 2015.
- PGC. 2014. Division of Environmental Planning and Habitat Protection, Harrisburg, PA. Agency Response Letter dated December 17, 2014 to Deborah Poppel, URS Corporation, RE: PennEast Pipeline Company, LLC PennEast Pipeline Project Revision, State Game Lands Nos. 91, 40, 129, and 168, Large Project PNDI Review, Luzerne, Carbon, Northampton, and Bucks Counties, PA. PGC ID Number: 201408190001 Revised.
- PGC. 2015. Pennsylvania Game Commission Mapping Center. Available at: http://www.portal.state.pa.us/portal/server.pt?open=514&objID= 1528109&mode=2. Accessed on March 1, 2016.
- Piatt, J.F. K.J. Kuletz, A.E. Burger, S.A. Hatch, V.L. Friesen, T.P. Birt, M.L. Arimitsu, G.S. Drew, A.M.A. Harding, and K.S. Bixler. 2006. Status Review of the Marbled Murrelet (Brachyramphus Marmoratus) in Alaska and British Columbia, Open-File Report 2006-1387.

- PNHP (Pennsylvania Natural Heritage Program). 2014. Natural Heritage Inventory of All Species in Pennsylvania. Updated November, 2014. Available at: http://www.naturalheritage.state.pa.us/Species.aspx. Accessed on January 31, 2015.
- PNHP. 2016. Vernal Pools. Available online at http://www.naturalheritage.state.pa.us/VernalPools.aspx. Last Accessed December 2016.
- PNHP. n.d. County Natural Heritage Inventories. Luzerne (2013), Carbon (2005), Lehigh & Northampton (2013), and Bucks (2011) County Reports. Available at: http://www.naturalheritage.state.pa.us/cnhi.aspx. Accessed on February 5, 2015.
- PNHP. n.d. Nature Serve State Rank. Available at: http://www.naturalheritage.state.pa.us/RankStatusDef.aspx. Accessed on January 31, 2015.
- PNHP. n.d. Nature Serve State Rank. Available online at: http://www.naturalheritage.state.pa.us/RankStatusDef.aspx.
- Poole, A. (Editor). 2015. The Birds of North America Online. Cornell Laboratory of Ornithology, Ithaca, NY. Available at: http://bna.birds.cornell.edu/BNA/. Accessed on February 4, 2015.
- Reid S. M. and P. G. Anderson. 1999. Effects of sediment released during open-cut pipeline water crossings. Can. Water Resources. J. 24:23–39.
- Robbins, C.S. 1988. Forest fragmentation and its effects on birds. In Johnson, J.E. (ed.) 1988. Managing North Central forests for non-timber values. Publication 88-4, Society of American Foresters, Bethesda, MD.
- Roberts, T. H, and Arner, D. H. 1984. Food Habits of Beaver in East Central Mississippi. Journal of Wildlife Management 48:14141419.
- Rodewald, A.D. 2001. Managing for forest songbirds. Ohio State University Extension, Columbus, Ohio. Fact Sheet W-6-2001.
- Rosenberg, K.V., R.W. Rohrbaugh, Jr., S.E. Barker, R.S. James, J.D. Lowe, and A.A. Dhondt. 1999. A land manager's guide to improving habitat for scarlet tanagers and other forest interior birds. The Cornell Lab of Ornithology, Ithaca, NY.
- Serfes M.E., 2016. Final Report of U.S. EPA Method 1627 Kinetic and HDD Leach Test Results and Implications for Arsenic Mobilization Related to the Proposed PennEast Pipeline. Response to FERC's April 29, 2016 Environmental Information Request. Filed to Project Docket CP15-558-000 on May 16, 2016; Accession Number: 20160516-5382.
- Sevon, WD. 2000. Physiographic Regions of Pennsylvania. Map 13. Fourth Edition. Pennsylvania Department of Conservation and Natural Resources, Bureau of Topographic and Geologic Survey. PA. 2 pp.
- Shellenberger, Pamela. 2014. U.S. Fish and Wildlife Service, Pennsylvania Ecological Services Field Office, State College, PA. Email communication on October 29, 2014, with Jonathan West and Deborah Poppel, URS Corporation, RE: Penn East Pipeline; USFWS 2014-1013.

- Sourcewatch.org. 2015. New Jersey and Fracking. Available at http://www.sourcewatch.org/index.php/New Jersey and fracking. Accessed on August 18, 2015.
- Sourland Conservancy. 2017. Available at http://www.Sourland.org/. Accessed October, 2016.
- Sourland Planning Council. 2006. Map of Sourland Mountains, Central New Jersey's Last Great Wilderness.
- STR. 2015. Trend Report: Luzerne, Northampton, Bucks, Mercer and Hunterdon County. Produced for PennEast on September 17, 2015.
- Tarlowe, P. 2002. American Bittern, Botaurus lentiginosus. New Jersey Department of Fish and Wildlife. Information sheet. Accessed 4/2016 at: http://www.state.nj.us/dep/fgw/ensp/pdf/end-thrtened/ambittern.pdf.
- Taucher, Jon. 2014. Pennsylvania Game Commission (PGC). Division of Environmental Planning & Habitat Protection. Bureau of Wildlife Habitat Management. Harrisburg, PA. Agency Response Letter dated December 17, 2014 to Deborah Poppel, URS Corporation. Re: PennEast Pipeline Company, LLC Penneast Pipeline Project Revision. State Game Lands Nos. 91, 40, 129, and 168. Large Project PNDI Review. Luzerne, Carbon, Northampton, and Bucks Counties, PA.
- Taucher, Jon. 2015. Pennsylvania Game Commission (PGC). Division of Environmental Planning & Habitat Protection. Bureau of Wildlife Habitat Management. Harrisburg, PA. Agency Response Letter dated January 28, 2015 to Bernard Holcomb, URS Corporation. Re: PennEast Pipeline Company, LLC Penneast Pipeline Project (Revision). State Game Lands Nos. 91, 40, 129, and 168. Large Project PNDI Review. Luzerne, Carbon, Northampton, and Bucks Counties, PA.
- Tourism Economics. 2013a. The Economic Impact of Travel and Tourism in Pennsylvania: Tourism Satellite Account Calendar Year 2013. Available at: http://www.visitpa.com/sites/default/master/files/pdfs/PAVisitorEconomicImpact2013FINA L.pdf.
- Tourism Economics. 2013b. The Economic Impact of Travel and Tourism in New Jersey: Tourism Satellite Account Calendar Year 2013. Available at: http://www.visitnj.org/sites/default/master/files/2013-nj-economic-impact.pdf.
- Transco (Transcontinental Gas Pipe line). 2015. Atlantic Sunrise Project FAQ. http://atlanticsunriseexpansion.com/get-the-facts/get-the-facts. Accessed March 2016.
- Trapp, H. and M.A. Horn. 1997. Groundwater Atlas of the United States, Deleware, Maryland, New Jersery, North Carolina, Pennsylvania, Virginia, and West Virginia. United States Geological Survey, Reston, VA. Available at: http://pub.usgs.gov/ha/7301/report.pdf. Accessed on February 1, 2015.
- Trombulak, S.C., and C.A. Frissell. 2000. Review of Ecological Effects of Roads on Terrestrial and Aquatic Communities. Middlebury College, Middlebury, VT.

- Turner, Greg. 2015. Pennsylvania Game Commission. Email communications with Deborah Poppel of AECOM, August 13 and August 18, 2015.
- U.S. Bureau of Economic Analysis. 2015a. CA25N Total full-time and part-time employment by industry, 2014. Available online at: http://www.bea.gov
- U.S. Bureau of Economic Analysis. 2015b. CA04 Personal income summary, 2014. Available online at: http://www.bea.gov
- U.S. Bureau of Economic Analysis. 2015c. CA25N Total full-time and part-time employment by industry, 2013. Available online at: http://www.bea.gov
- U.S. Bureau of Labor Statistics. 2015a. Labor Force Data by County, 2014 Annual Averages. Available online at: http://www.bls.gov/home.htm
- U.S. Bureau of Labor Statistics. 2015b. Regional and State Unemployment 2014 Annual Averages. News Release. March 4.
- U.S. Bureau of Labor Statistics. 2015c. Available online at: http://www.bls.gov/
- U.S. Census Bureau. 2000. P001: Total Population [1] Universe: Total population. Census 2000 Summary File 1 (SF 1) 100-Percent Data. Available online at: http://factfinder.census.gov/faces/nav/jsf/pages/index.xhtml
- U.S. Census Bureau. 2010. USA Counties Data File Downloads. Land Area. Available online at: http://www.census.gov/support/USACdataDownloads.html#LND
- U.S. Census Bureau. 2015a. Annual Estimates of the Resident Population: April 1, 2010 to July 1, 2014. Population Division. March. Available online at: http://factfinder.census.gov/
- U.S. Census Bureau. 2015b. DP04: Selected Housing. 2010-2014 American Community Survey 5-Year Estimates. Available online at: http://factfinder.census.gov/faces/nav/jsf/pages/index.xhtml
- U.S. Census Bureau. 2015c. B25004: Vacancy Status. Universe: Vacant Housing Units. 2010-2014 American Community Survey 5-Year Estimates. Available online at: http://factfinder.census.gov/ faces/nav/jsf/pages/index.xhtml
- U.S. Census Bureau. 2015d. Poverty Definitions. Available online at: http://www.census.gov/hhes/www/poverty/methods/definitions.html
- U.S. Census Bureau. 2015e. B03002: Hispanic or Latino Origin by Race. 2010-2014 American Community Survey 5-Year Estimates. Available online at: http://factfinder.census.gov/faces/nav/jsf/pages/index.xhtml
- U.S. Census Bureau. 2015f. B19013: Median Household Income. 2010-2014 American Community Survey 5-Year Estimates. Available online at: http://factfinder.census.gov/faces/nav/jsf/pages/index.xhtml

- U.S. Census Bureau. 2015g. B17017: Poverty Status in the Past 12 Months by Household Type by Age of Householder. 2010-2014 American Community Survey 5-Year Estimates. Available online at: http://factfinder.census.gov/faces/nav/jsf/pages/index.xhtml
- U.S. Department of Health and Human Services, Centers for Disease Control and Prevention. 2015. National Center of Health Statistics, National Vital Statistics System, Table 10: Number of deaths from 113 selected causes.
- USACE (U.S. Army Corps of Engineers). 1987. Corps of Engineers Wetlands Delineation Manual. By Environmental Laboratory. January 1987 Final Report. Online at: http://www.cpe.rutgers.edu/Wetlands/1987-Army-Corps-Wetlands-Delineation-Manual.pdf.
- USDA (U.S. Department of Agriculture). 2010. Natural Resources Conservation Service. Web Soil Survey, http://websoilsurvey.sc.egov.usda.gov/App/HomePage.htm. Accessed March 26, 27, and 28, 2015.
- USDA-NASS. 2014. National Agricultural Statistics Service 2012 Census of Agriculture. State and County Profiles. Available online at: http://www.agcensus.usda.gov/Publications/2012/Full Report/Census by State/
- USDOI (United States Department of the Interior). 2014a. U.S. Fish and Wildlife Service, Pennsylvania Ecological Services Field Office, State College, PA. USFWS Project Number: 2014-1013. Agency response letter dated September 30, 2014, regarding PennEast letter dated August 12, 2014 requesting information about federally listed and proposed endangered and threatened species within Project area, sent to Bernard Holcomb, URS Corporation, Conshohocken, PA.
- USDOI. 2014b. U.S. Fish and Wildlife Service, Pennsylvania Ecological Services Field Office, State College, PA. Information, Planning, and Conservation System (IPAC). Automated consultation response letter dated October 29, 2014, regarding PennEast 10" lateral in Northampton, PA.
- USDOI. 2014c. U.S. Fish and Wildlife Service, Pennsylvania Ecological Services Field Office, State College, PA. U.S. Fish and Wildlife Service, New Jersey Ecological Services Field Office, Pleasantville, NJ. Information, Planning, and Conservation System (IPAC). Automated consultation response letter dated August 26, 2014, regarding PennEast pipeline route in Hunterdon, NJ, Mercer, NJ, Bucks, PA, Carbon, PA, Luzerne, PA and Northampton, PA.
- USDOI. 2014d. U.S. Fish and Wildlife Service, Pennsylvania Ecological Services Field Office, State College, PA. U.S. Fish and Wildlife Service, New Jersey Ecological Services Field Office, Pleasantville, NJ. Information, Planning, and Conservation System (IPAC). Automated consultation response letter dated February 02, 2015, regarding PE NJ Lambertville lateral in Hunterdon, NJ.
- USDOI. 2014e. U.S. Fish and Wildlife Service, Pennsylvania Ecological Services Field Office, State College, PA. U.S. Fish and Wildlife Service, New Jersey Ecological Services Field Office, Pleasantville, NJ. Information, Planning, and Conservation System (IPAC). Automated consultation response letter dated February 02, 2015, regarding PE NJ align in Hunterdon, NJ, Mercer, NJ and Bucks, PA.

- USGCRP (U.S. Global Change Research Program). 2014. National Climate Assessment. Web. 20 May 2016.
- USGS (United States Geological Survey). 2003. Principal Aquifers of the 45 Conterminous United States, Hawaii, Puerto Rico, and the U.S. Virgin Islands. Available at: http://water.usgs.gov/GIS/metadata/usgswrd/XML/aquifers us.xml. Accessed on April 11, 2016.
- USGS. 2005. Mineral Resources Data System. Last Revised January 2012. Available at: http://mrdata.usgs.gov/mrds/.
- USGS. 2009. Earthquake Probability Map. https://geohazards.usgs.gov/eqprob/2009/. Accessed March 30, 2015.
- USGS. 2014. USGS New Jersey: Surficial Aquifer Studies Rancocas, New Jersey. Accessed at http://nj.usgs.gov/programs/Surficial/info/info\_rancocas.html. Accessed on March 16, 2016.
- USGS. 2015. Digital Compilation Of Landslide Overview Map Of The Conterminous United States By Dorothy H. Radbruch-Hall, Roger B. Colton, William E. Davies, Ivo Lucchitta, Betty A. Skipp, and David J. Varnes. 1982.
- Virginia Department of Game and Inland Fisheries. 2016. Norther red-bellied cooter (Pseudemys rubriventris). Species information. Accessed on May 16, 2016 at: http://www.dgif.virginia.gov/wildlife/information/?s=030057
- WHM Group. 2015. Compensatory Wetland Mitigation Plan. Prepared for PennEast Pipeline Company, LLC. Filed with the FERC on February 22, 2016 as part of responses to FERC staff information requests.
- Wildlife Specialists. 2015. Indiana and Northern Long-eared bat Mist Net Survey Report. PennEast Pipeline Project. Prepared for URS Corporation. July 2015.
- Wyatt, Andrew, Kristopher Montgomery and James Burton. 2016b. *Phase I Archaeological Survey Report, PennEast Pipeline Project, Luzerne, Carbon, Northampton, and Bucks Counties, Pennsylvania, Addendum 2.* Prepared for PennEast Pipeline Company, LC by URS Corporation, Burlington, New Jersey.
- Wyatt, Andrew, Kristopher Montgomery, James Burton, and Joseph Kwiatek. 2016a. *Phase I Archaeological Survey Report, PennEast Pipeline Project, Luzerne, Carbon, Northampton, and Bucks Counties, Pennsylvania, Addendum 1.* Prepared for PennEast Pipeline Company, LLC by URS Corporation, Burlington, New Jersey.
- Wyatt, Andrew, Kristopher Montgomery, James Burton, Eileen Hood, Matthew Harris, and Joseph Kwiatek. 2015. *Phase I Archaeological Survey Report, PennEast Pipeline Project, Luzerne, Carbon, Northampton, and Bucks Counties, Pennsylvania*. Prepared for PennEast Pipeline Company, LLC by URS Corporation, Burlington, New Jersey.
- Zeoli, Vanessa and Eileen Hood. 2015a. Reconnaissance-Level Historic Architectural Survey Report, PennEast Pipeline Project, Luzerne, Carbon, Northampton, and Bucks Counties, Pennsylvania. Prepared for PennEast Pipeline Company, LLC by URS Corporation, Burlington, New Jersey.

- Zeoli, Vanessa and Eileen Hood. 2015b. *Reconnaissance-Level Historic Architectural Survey Report, PennEast Pipeline Project, Hunterdon and Mercer Counties, New Jersey*. Prepared for PennEast Pipeline Company, LLC by URS Corporation, Burlington, New Jersey.
- Ziesing, Grace, Jesse Walker, and Elisabeth LaVigne. 2016. *Phase I Archaeological Survey Report, PennEast Pipeline Project, Hunterdon and Mercer Counties, New Jersey, Addendum1: Survey Results, August 2015 through June 2016.* Prepared for PennEast Pipeline Company, LC by URS Corporation, Burlington, New Jersey.
- Ziesing, Grace, Joseph Kwiatek, Eileen Hood, Robert Kingsley, and Brian Albright. 2015a. *Phase I Archaeological Survey Report, PennEast Pipeline Project, Hunterdon and Mercer Counties, New Jersey*. Prepared for PennEast Pipeline Company, LLC by URS Corporation, Burlington, New Jersey.
- Ziesing, Grace, Joseph Kwiatek, Eileen Hood, Robert Kingsley, and Brian Albright. 2015b. Phase I Archaeological Survey Report, PennEast Pipeline Project, Hunterdon and Mercer Counties, New Jersey. Revised December 2015. Prepared for PennEast Pipeline Company, LLC by URS Corporation, Burlington, New Jersey.