

Section 8

References

Text References

Barksdale, H.C., Johnson, M.E., Baker, R.C., Schaefer, E.J., and DeBuchananne, G.D., 1943. *The Ground-Water Supplies of Middlesex County New Jersey*. State of New Jersey State Water Policy Commission. Trenton, New Jersey.

Berardinelli, Dan. [Personal Communication] Engineer, American Water Company. Phone conversation with Kalsoum Abbasi, CDM, on December 6, 2002.

Council on Environmental Quality (CEQ), December 10, 1997. *Environmental Justice--Guidance Under the National Environmental Policy Act*. Appendix A, "Guidance for Federal Agencies on Key Terms in Executive Order 12898."

Day, C.G., 1996. Correspondence from C.G. Day (USFWS) to Daniel Montella (EPA Region 11). 2pp. plus enclosure. (Harris, 1997)

DeGraaf, R.M. and D.D. Rudis, 1986. *New England Wildlife: Habitat, Natural History, and Distribution*. Gen. Tech. Rep. NE-108. Broomall, PA: U.S. Dept. of Agriculture, Forest Service, Northeastern Forest Experiment Station. pp 491.

United States Environmental Protection Agency (EPA), 2003. *Sole Source Aquifer Protection Program website* [online WWW]. Available URL: <http://www.epa.gov/safewater/ssanp.html> [Accessed January 15, 2003].

EPA, 1992. *Screening Procedures for Estimating the Air Quality Impact of Stationary Sources, Revised*, EPA-454/R-92-019, October 1992.

EPA, 1988. *New Jersey Coastal Plain Aquifer Support Document* [online WWW]. Available URL: <http://www.epa.gov/region02/water/aquifer/coast/coastpln.htm> [Accessed September 27, 2002].

Galli, Leck, and Forman, 1976. *Avian Distribution Patterns in Forested Islands of Different Sizes in Central New Jersey*. *The Auk*, Volume 93.

Golet, F.C., A.J.K. Calhoun, W.R. DeRagon, D.J. Lowry and A.T. Gold, 1993. *Ecology of Red Maple Swamps in the Glaciated Northeast: A Community Profile*. U.S. Fish Wildl. Serv. Biol. Rep. 12 pp. 151.

Federal Highway Administration (FHWA), May 1996. *Measurement of Highway-Related Noise*, FHWA-PD-96-046 DOT-VNTSC-FHWA-96-5.

FHWA, June 1995. *Highway Traffic Noise Analysis and Abatement Policy and Guidance*.

FHWA, 1987. Special Report Highway Construction Noise: Measurement, Prediction and Mitigation.

FHWA, March 13, 1984. Analysis of Highway Construction Noise, T6160.2.

FHWA, August 9, 1982. Federal-Aid Highway Program Manual, Volume 7, Chapter 7, Section 3.

FHWA, July 8, 1982. Procedures for Abatement of Highway Traffic Noise and Construction Noise, 23 CFR 772.

FHWA, April 1982. Noise Barrier Cost Reduction Procedure STAMINA 2.0/OPTIMA User's Manual, PB82-218744.

FHWA, September 1980. Noise Fundamentals Training Document Highway Noise Measurement.

FHWA, December 1978. FHWA-RD 77-108 FHWA Highway Traffic Noise Prediction Model, FHWA-RD-77-108.

FHWA, June 1973. Fundamentals and Abatement of Highway Traffic Noise, Chapter 3, Report No. FHWA-881-8EV-73-7976-1.

Frederic R. Harris, Inc. (Harris), 1994. Proposed Route 92 Draft Environmental Impact Statement. Prepared for the New Jersey Turnpike Authority.

Harris, 1996a. New Jersey Turnpike Authority Route 92 Executive Order No. 215 Response Document.

Harris, 1996b. New Jersey Turnpike Authority Route 92 Freshwater Wetlands Individual Permit Application.

Harris, 1997. New Jersey Turnpike Authority Route 92 Freshwater Wetlands Individual Permit Application – Response to New Jersey Department of Environmental Protection Request for Additional Information.

Harris, 1999a. Route 92 United States Army Corps of Engineers Section 404 Permit Application. Prepared for the New Jersey Turnpike Authority.

Harris, 1999b. Route 92 Compilation of Information Requested by the United States Army Corps of Engineers. Prepared for the New Jersey Turnpike Authority.

Harris, 1999c. Route 92 Stream Encroachment Permit Application (revised). Prepared for the New Jersey Turnpike Authority.

Hunter Research, Inc. (Hunter), 1996. Combined Phase I and II Cultural Resources Investigations N.J. Route 92, Alternate E, U.S. Route 1 to the New Jersey Turnpike, South Brunswick Township, Middlesex County, New Jersey. Prepared for Frederic R. Harris, Inc.

Mar, Jeanette. [Personal Communication] FHWA New Jersey Division. Phone conversation with Marc Wallace, CDM, on October 25, 2002.

Merk, Larry. [Personal Communication]. Director of South Brunswick Township Utilities. Phone conversation with Tonia Mastroianni in December 2000.

New Jersey Department of Environmental Protection (NJDEP), 2002. Natural Heritage Program. [Letter] Sent by Herbert A. Lord to Kalsoum Abbasi, dated December 3, 2002.

NJDEP, January 2002. 2000 Air Quality Report. Bureau of Air Monitoring. Trenton, New Jersey.

NJDEP, May 2001. 2000 New Jersey Water Quality Inventory Report. Division of Science, Research and Technology. Trenton, New Jersey.

NJDEP, April 1998. Surface Water Quality Standards, N.J.A.C 7:9B. Office of Environmental Planning. Trenton, New Jersey.

New Jersey Department of Transportation (NJDOT), December 2000. Highway Traffic Noise Policy Technical Appendix.

New Jersey Turnpike Authority (NJTA), October 24, 1991. Policy for Construction of Sound Barriers.

New Jersey Water Supply Authority (NJWSA), August 2001. DRAFT Surface Water Quality and Pollutant Loadings Technical Report.

Rich, A.C., D.S. Dobkin and L.J. Niles, 1994. Defining Forest Fragmentation by Corridor Width: The Influence of Narrow Forest-Dividing Corridors on Forest-Nesting Birds in New Jersey. *Cons. Bio.* 8: 1109 - 1121.

Stormwater Manager's Resource Center (SMRC), 2003. Stormwater Management Fact Sheet: Dry Extended Detention Pond [online WWW]. Available URL: <http://www.stormwatercenter.net> [Accessed April 14, 2003].

Temple, S.A. and J.R. Carey, 1988. Model Dynamics of Habitat-Interior Bird Populations in Fragmented Landscapes. *Cons. Bio.* 2: 340 - 347.

Thompkins, Mike. [Personal Communication] Project Manager, NJDEP Site Remediation Program. Phone conversation with Kalsoum Abbasi on October 28, 2002.

United States Department of Agriculture (USDA), 1987. Soil Survey of Middlesex County, New Jersey. Soil Conservation Service in cooperation with New Jersey Agricultural Experiment Station, Cook College, Rutgers, The State University and the New Jersey Department of Agriculture State Soil Conservation Committee.

USDA, 1994. Changes in hydric soils of the United States. Soil Conservation Service. Washington, DC, June 29, 1994.

USDA, 1998. Middlesex County, New Jersey Comprehensive Hydric Soils List. Natural Resources Conservation Service (New Jersey) [online WWW]. Available URL: <http://www.nj.nrcs.usda.gov/soils/hydric/middlesex.pdf> [Accessed September 20, 2002].

United States Fish and Wildlife Service (USFWS), 2002. [Letter] Sent by Lisa Solberg to Kalsoum Abbasi, dated November 13, 2002.

USFWS, 1999. [Letter] Sent by Clifford G. Day to Col. William H. Pearce, dated May 4, 1999.

Vickery, P.D., M.L. Hunter Jr., and S. M. Melvin, 1994. Effects of Habitat Area on the Distribution of Grassland Birds in Maine. *Cons. Bio.* 8: 1087 - 1097.

Vickery, P.D. and A.L. Jones, undated. Conserving Grasslands Birds - Managing Agricultural Lands Including Hayfields, Crop Lands, and Pastures for Grassland Birds. Mass. Audubon Society, Lincoln, MA, and USFWS North American Waterfowl Management Program. pp.17.

Wilcove, D.S., C.H. McLellan, and A.P. Dobson, 1986. Habitat Fragmentation in the Temperate Zone. Pages 237 - 256 in M.E. Soule (ed), *Conservation Biology: the Science of Scarcity and Diversity*. Sunderland, MA. Sinaur Assoc.

GIS Figure References

Figure 1-1, Location Map:

County boundary, municipal boundary, major highway - NJDEP GIS data download (<http://www.state.nj.us/dep/gis/>).

Route 92 centerline - provided by DMJM+HARRIS, Inc. Iselin, New Jersey, in Auto CAD format.

Figure 1-4, Route 92 EIS - Regional Road Network and Land Use Patterns:

County boundary, municipal boundary, streams - NJDEP GIS data (ARC/INFO format) available on CD ROM - 1998 update.

Street centerline - 2000 Census GIS data (E00 format)

County and state parks - GIS data (E00 format) from NJ Department of Community Affairs website (<http://www.state.nj.us/osp/ospmaps3.htm>)

Year 1995 Land Use/Land Cover - NJDEP GIS data download.

Figures 2-1, 2-2, 2-3, Alternatives Analysis:

Street centerline, major highway – Enhanced TIGER files (<http://www.esri.com>).

Alternatives lines – hand digitized.

Figure 3-1, Topography, Sheets 1 - 8:

Route 92 center line and impact corridor line - provided by DMJM+HARRIS, Inc. in Auto CAD format.

USGS monochromatic bitmap images: NJDEP GIS data download.

Figure 3-2, Geologic Formations:

Street centerline, major highway, PSE&G, railroad, hydrologic feature – Enhanced TIGER files.

Water (polygon) - NJDEP GIS data download (land use coverage).

Geologic formations – NJ Geologic Survey data available on CD.

Figure 3-3, Soils (Route 92 Corridor)

Soils line - provided by DMJM+HARRIS, Inc. in Auto CAD format.

Figure 3-4, Surface Water Features with Water Quality Monitoring Locations:

Street centerline, major highway, PSE&G, railroad, hydrologic feature – Enhanced TIGER files.

Municipal boundary, county boundary – NJDEP GIS data download.

Route 1 impact corridor – hand digitized.

NJDEP watershed management area boundary - NJDEP GIS data.

USGS/NJDEP Water Quality Monitoring Locations – NJDEP GIS data download.

NJDEP Permit Sites: NJDEP GIS data download.

Figure 3-5, FEMA Flood Hazard Areas:

Street centerline, major highway, PSE&G, railroad, hydrologic feature – Enhanced TIGER files.

FEMA 100 Year Flood Zone – 1996 FEMA Flood Mapping CD (E00 format files)

Figure 3-6, NJDEP Flood Hazard Areas:

Street centerline, major highway, PSE&G, railroad, hydrologic feature – Enhanced TIGER files.

Municipal boundary, county boundary – NJDEP GIS data.

NJDEP Flood Hazard Areas – NJDEP 1998 GIS data on CD.

NJDEP Disclaimer for this map: This map was developed using NJDEP Geographic Information System digital data, but this secondary product has not been verified by NJDEP and is not state-authorized. Actual floodplain locations are subject to field investigation, survey and assessment.

Figure 3-7, Bedrock Aquifers:

Street centerline, major highway, PSE&G, railroad, hydrologic feature – Enhanced TIGER files.

Municipal boundary, county boundary – NJDEP GIS data download.

Bedrock aquifers - NJ Geologic Survey data available on CD.

Figure 3-8, Surficial and Sole Source Aquifers:

Street centerline, major highway, PSE&G, railroad, hydrologic feature – Enhanced TIGER files.

Municipal boundary, county boundary – NJDEP GIS data download.

Bedrock aquifers - NJ Geologic Survey data available on CD.

Figure 3-9, Major Wetlands System in Route 92 Study Area:

Street centerline, major highway, PSE&G, railroad, hydrologic feature – Enhanced TIGER files.

Municipal boundary, county boundary – NJDEP GIS data download.

NJDEP Wetlands Delineation- 1995 Land Use/Land Cover, NJDEP GIS data download.

Figure 3-10, Major Wetlands System in Route 1 Study Area:

Street centerline, major highway, PSE&G, railroad, hydrologic feature – Enhanced TIGER files.

Municipal boundary, county boundary – NJDEP GIS data download.

NJDEP Wetlands Delineation- 1995 Land Use/Land Cover, NJDEP GIS data download.

Figure 3-11, Wetland Area Locations:

Street centerline, major highway, PSE&G, railroad, hydrologic feature – Enhanced TIGER files.

Municipal boundary, county boundary – NJDEP GIS data download.

Wetland area – digitized from the 1994 DEIS prepared by Harris.

Figure 3-12, Study Area Habitat:

Street centerline, major highway, PSE&G, railroad, hydrologic feature – Enhanced TIGER files.

Municipal boundary, county boundary – NJDEP GIS data download.

Study area habitats – digitized from the 1994 DEIS prepared by Harris.

Figure 3-13, Middlesex County Farmland Preservation Program:

Street centerline, major highway, PSE&G, railroad, hydrologic feature – Enhanced TIGER files.

Municipal boundary, county boundary – NJDEP GIS data download.

Farmland preservation program coverages – Middlesex County Planning Department.

Figure 3-20, Noise Monitoring and Modeling Locations, Sheets 1 - 3:

Route 92 centerline, impact corridor and surrounding features – Auto CAD drawing provided by DMJM+HARRIS, Inc.

Figure 3-21, Prior Noise Monitoring Locations:

Street centerline, major highway, PSE&G, railroad, hydrologic feature - Enhanced TIGER files.

Municipal boundary, county boundary - NJDEP GIS data download.

Noise monitoring locations - digitized from the 1994 DEIS prepared by Harris.

Figure 3-22, Known Contaminated Sites:

Street centerline, major highway, PSE&G, railroad, hydrologic feature - Enhanced TIGER files.

Municipal boundary, county boundary - NJDEP GIS data download.

Known contaminated sites - NJDEP GIS data download (KCS 2001 update).

Figure 3-23, Land Use (Route 92 and Route 1 Corridors):

Street centerline, major highway, PSE&G, railroad, hydrologic feature - Enhanced TIGER files.

Municipal boundary, county boundary - NJDEP GIS data download.

Land use - NJDEP 1995 land use coverage.

Figure 3-24, Zoning (Route 92 and Route 1 Corridors):

Street centerline, major highway, PSE&G, railroad, hydrologic feature - Enhanced TIGER files.

Municipal boundary, county boundary - NJDEP GIS data download.

Zoning - digitized from Plainsboro, South Brunswick, and North Brunswick Townships zoning maps.

Figure 3-25, Minority Status for Blocks in Route 92 Corridor:

United States Bureau of the Census, 2000 Census of Population and Housing