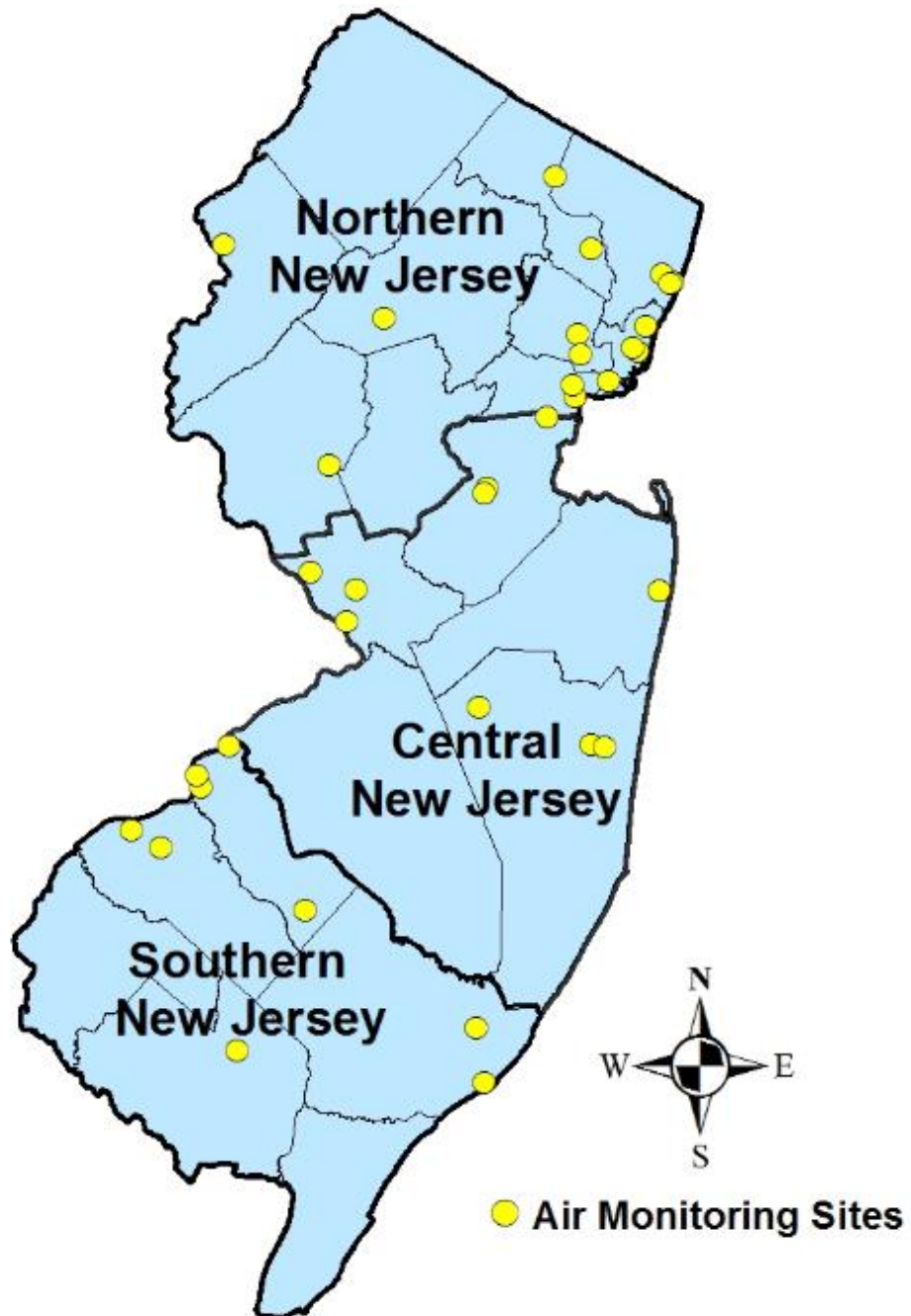




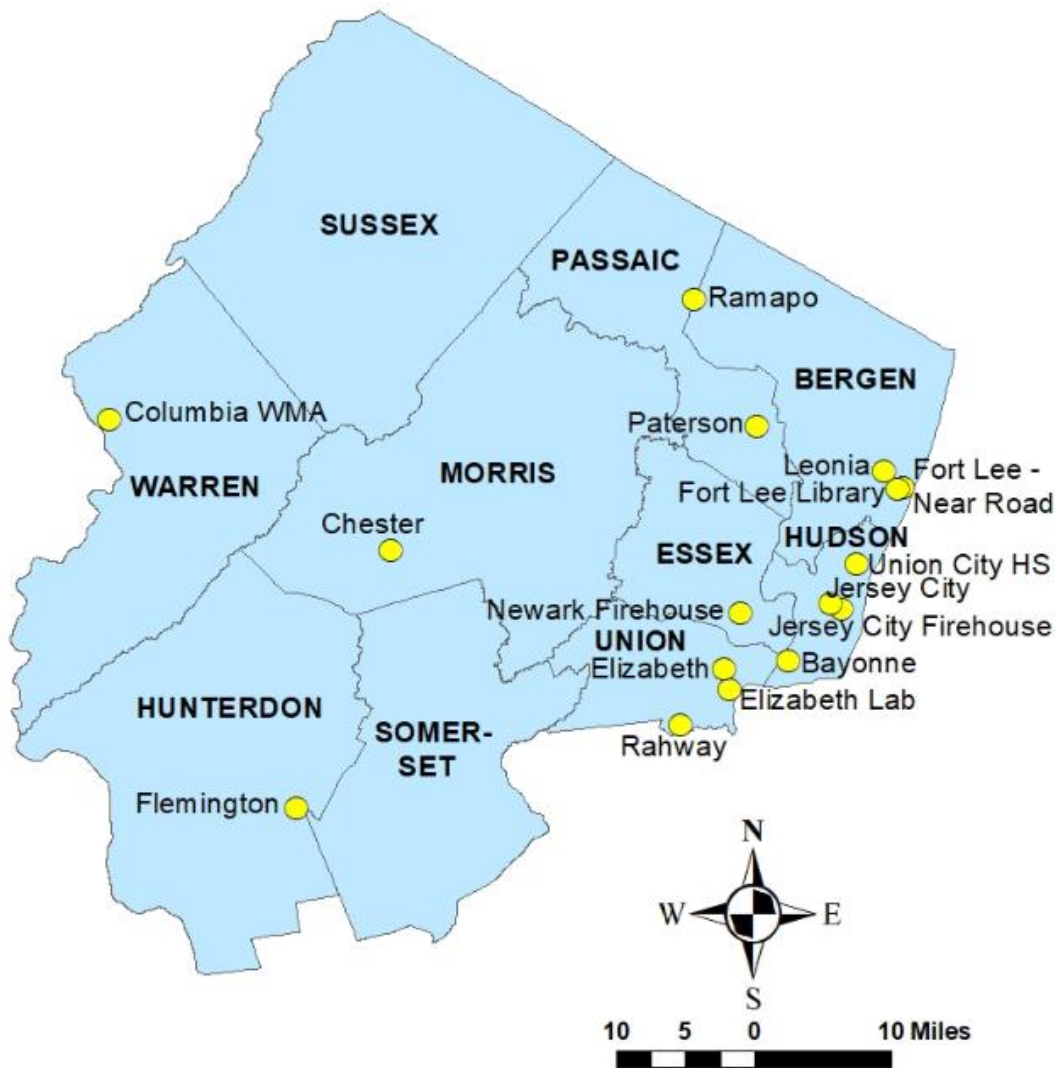
# Appendix A

## 2017 Air Monitoring Sites

New Jersey Department of Environmental Protection



**FIGURE A-1**  
**2017 NORTHERN NEW JERSEY**  
**AIR MONITORING SITES**

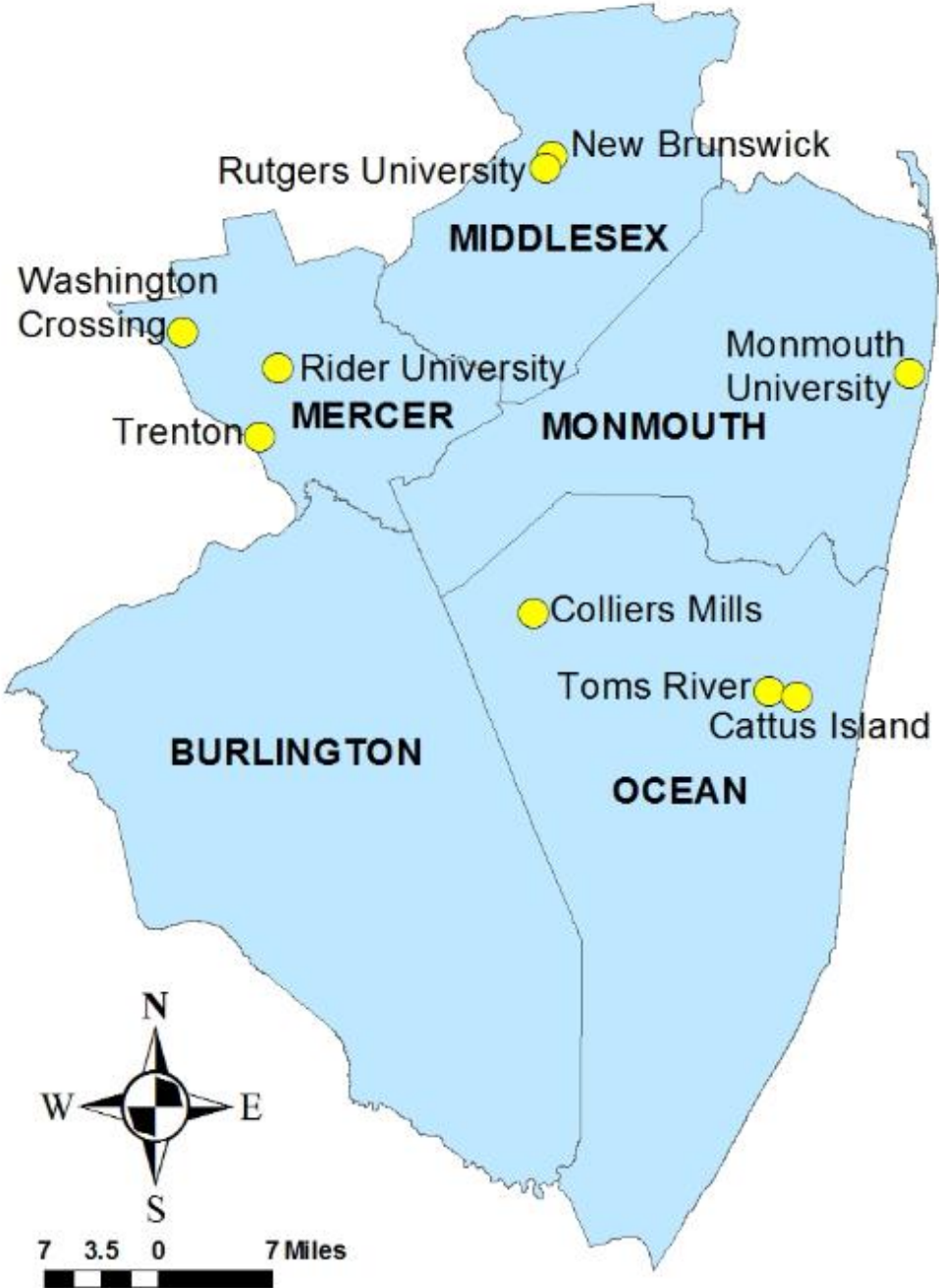


**Table A-1  
2017 Northern New Jersey Air Monitoring Sites**

County	Monitoring Site	AIRS Code	Parameter(s) Measured <sup>1</sup>	Coordinates (Decimal degrees)		Address
				Latitude	Longitude	
BERGEN	Fort Lee Library	34 003 0003	PM <sub>2.5</sub>	40.852256	-73.973314	320 Main Street
	Fort Lee Near Road	34 003 0010	CO, NO <sub>x</sub> , Beta, BTEX, BC, Met	40.853550	-73.966180	2047 Central Ave.
	Leonia	34 003 0006	O <sub>3</sub>	40.870436	-73.991994	Overpeck Park, 40 Fort Lee Road
ESSEX	Newark Firehouse	34 013 0003	CO, O <sub>3</sub> , SO <sub>2</sub> , PM <sub>2.5</sub> , Spec, NO <sub>y</sub> , NO <sub>x</sub> , BTEX, Pb, Beta, BC, Met, PM <sub>coarse</sub>	40.720989	-74.192892	Engine 10, 360 Clinton Avenue
HUDSON	Bayonne	34 017 0006	NO <sub>x</sub> , O <sub>3</sub> , SO <sub>2</sub> , BTEX, BC, Met	40.670250	-74.126081	Park Rd at end of W. 25th St.
	Jersey City	34 017 1002	CO, NO <sub>x</sub> , SO <sub>2</sub>	40.731645	-74.066308	2828 John F. Kennedy Boulevard
	Jersey City Firehouse	34 017 1003	PM <sub>2.5</sub> , PM <sub>10</sub> , Beta	40.725454	-74.052290	Engine 6, 355 Newark Avenue
	Union City High School	34 017 0008	PM <sub>2.5</sub>	40.770908	-74.036218	2500 John F. Kennedy Blvd.
HUNTERDON	Flemington	34 019 0001	O <sub>3</sub> , Met, Beta	40.515262	-74.806671	Raritan Twp. Municipal Utilities Authority, 365 Old York Road
MORRIS	Chester	34 027 3001	NO <sub>x</sub> , O <sub>3</sub> , SO <sub>2</sub> , PM <sub>2.5</sub> , Toxics, Spec	40.787628	-74.676301	Bldg. #1, Department of Public Works, (DPW), 50 North Road
PASSAIC	Paterson	34 031 0005	PM <sub>2.5</sub>	40.918381	-74.168092	Health Department, 176 Broadway
	Ramapo	34 031 5001	O <sub>3</sub>	41.058617	-74.255544	Ramapo Mountain State Forest, Access Road, off Skyline Drive, Wanaque
UNION	Elizabeth	34 039 0003	CO, SO <sub>2</sub>	40.662493	-74.214800	7 Broad Street
	Elizabeth Lab	34 039 0004	CO, NO <sub>x</sub> , SO <sub>2</sub> , Met, PM <sub>2.5</sub> , Toxics, Hg, Spec, BTEX, BC, Beta	40.641440	-74.208365	Interchange 13 Toll Plaza, New Jersey Turnpike
	Rahway	34 039 2003	PM <sub>2.5</sub> , TEOM	40.603943	-74.276174	Fire Dept. Headquarters, 1300 Main Street
WARREN	Columbia WMA	34 041 0007	NO <sub>x</sub> , O <sub>3</sub> , SO <sub>2</sub> , PM <sub>2.5</sub> , Met, Beta	40.924580	-75.067815	Columbia Wildlife Management Area, 105 Delaware Road, Knowlton Twp.

<sup>1</sup> See abbreviations and acronyms in Table A-4 (page A-8).

**FIGURE A-2**  
**2017 CENTRAL NEW JERSEY**  
**AIR MONITORING SITES**



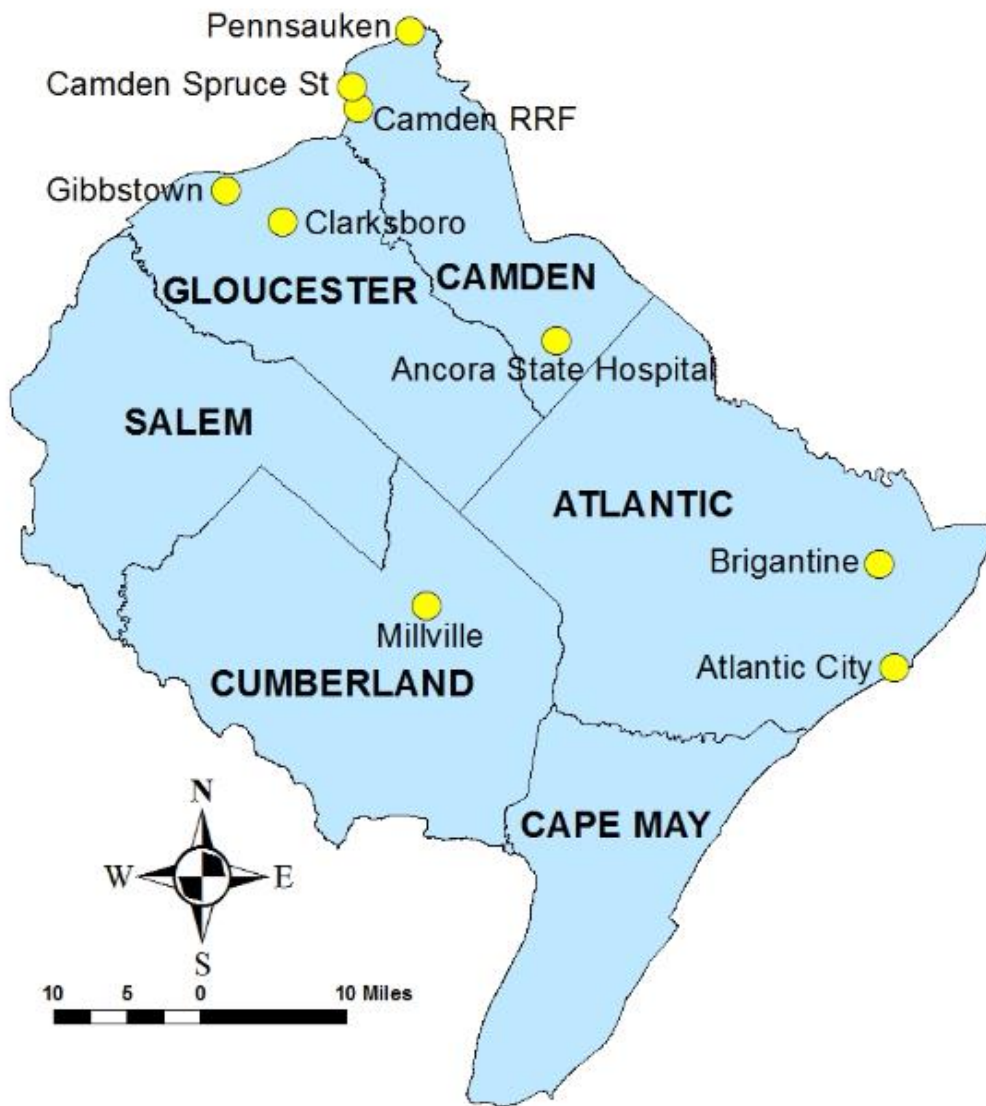
**Table A-2  
2017 Central New Jersey Air Monitoring Sites**

County	Monitoring Site	AIRS Code	Parameter(s) Measured <sup>1</sup>	Coordinates (Decimal degrees)		Address
				Latitude	Longitude	
<b>MERCER</b>	Rider University	34 021 0005	O <sub>3</sub> , Met, Beta	40.283092	-74.742644	2083 Lawrenceville Rd, Athletic Fields, Lawrence Twp.
	Trenton	34 021 0008	PM <sub>2.5</sub>	40.222411	-74.763167	Trenton Public Library, 120 Academy Street
	Washington Crossing	N/A	ACID	40.315359	-74.853613	1240 Bear Tavern Road, Washington Crossing State Park, Titusville
<b>MIDDLESEX</b>	Rutgers University	34 023 0011	NO <sub>x</sub> , O <sub>3</sub> , Met <sup>2</sup> , PAMS, Beta, PM <sub>2.5</sub> , Toxics, Spec, Hg	40.462182	-74.429439	Horticultural Farm #3, 67 Ryders Lane, East Brunswick
<b>MONMOUTH</b>	Monmouth University	34 025 0005	O <sub>3</sub>	40.277647	-74.005100	Edison Science Bldg., 400 Cedar Avenue, West Long Branch
<b>OCEAN</b>	Cattus Island	N/A	ACID	39.989636	-74.134132	Cattus Island County Park, end of Bandon Road, Toms River
	Colliers Mills	34 029 0006	O <sub>3</sub>	40.064830	-74.444050	Colliers Mills Wildlife Management Area, Success Rd. near Hawkin Rd., Jackson Twp.
	Toms River	34 029 2002	PM <sub>2.5</sub>	39.994908	-74.170447	Hooper Avenue Elementary School, 1517 Hooper Avenue

<sup>1</sup> See abbreviations and acronyms in Table A-4 (page A-8).

<sup>2</sup> Meteorological measurements at the site are collected by Rutgers University.

**FIGURE A-3**  
**2017 SOUTHERN NEW JERSEY**  
**AIR MONITORING SITES**



**Table A-3  
2017 Southern New Jersey Air Monitoring Sites**

County	Monitoring Site	AIRS Code	Parameter(s) Measured <sup>1</sup>	Coordinates (Decimal degrees)		Address
				Latitude	Longitude	
<b>ATLANTIC</b>	Atlantic City	34 001 1006	PM <sub>2.5</sub>	39.363260	-74.431000	Atlantic Cape Community College, 1535 Bacharach Boulevard
	Brigantine	34 001 0006	Visibility, O <sub>3</sub> , SO <sub>2</sub> , Beta, PM <sub>2.5</sub> , ACID <sup>2</sup>	39.464872	-74.448736	Edwin B. Forsythe National Wildlife Refuge Visitor Center, 800 Great Creek Road, Galloway
<b>CAMDEN</b>	Ancora State Hospital	34 007 1001	O <sub>3</sub>	39.684250	-74.861491	301 Spring Garden Road, Hammonton
	Camden RRF	34 007 0009	PM <sub>10</sub>	39.912431	-75.116864	600 Morgan Street
	Camden Spruce Street	34 007 0002	CO, NO <sub>x</sub> , O <sub>3</sub> , SO <sub>2</sub> , PM <sub>2.5</sub> , Spec, BTEX, BC, Toxics, Met, Beta	39.934446	-75.125291	226-298 Spruce Street
	Pennsauken	34 007 1007	PM <sub>2.5</sub>	39.989036	-75.050008	Morris-Delair Water Treatment Plant, 8999 Zimmerman Ave.
<b>CUMBERLAND</b>	Millville	34 011 0007	NO <sub>x</sub> , O <sub>3</sub> , Beta	39.422273	-75.025204	Next to 4425 South Main Road
<b>GLOUCESTER</b>	Clarksboro	34 015 0002	O <sub>3</sub> , PM <sub>2.5</sub>	39.800339	-75.212119	Shady Lane Complex, 256 County House Road
	Gibbstown	34 015 0004	PM <sub>2.5</sub>	39.830837	-75.284682	Municipal Maintenance Yard, 61 North School Street

<sup>1</sup> See abbreviations and acronyms in Table A-4 (page A-8).

<sup>2</sup> United States Fish and Wildlife Service-Air Quality Branch (USFWS-AQB) is responsible for sample collection.

**Table A-4**  
**Abbreviations & Acronyms**

ACID	Acid Deposition
BC	Black carbon measured by aethalometer
Beta	Real-time PM <sub>2.5</sub> analyzer
BTEX	Measures benzene, toluene, ethylbenzene and xylenes
CO	Carbon monoxide
Hg	Mercury
Met	Meteorological parameters
NO <sub>x</sub>	Nitrogen dioxide and nitric oxide
NO <sub>y</sub>	Total reactive oxides of nitrogen
O <sub>3</sub>	Ozone
PAMS	Photochemical Assessment Monitoring Station, measures ozone precursors
Pb	Lead
PM <sub>2.5</sub>	Fine particles (2.5 microns or less) collected by a Federal Reference Method PM <sub>2.5</sub> sampler
PM <sub>10</sub>	Coarse particles (10 microns or less) collected by a Federal Reference Method PM <sub>10</sub> sampler
PM <sub>coarse</sub>	Difference between PM <sub>10</sub> and PM <sub>2.5</sub> measurements
SO <sub>2</sub>	Sulfur dioxide
Spec	Speciated fine particles (2.5 microns or less)
TEOM	Real-time PM <sub>2.5</sub> analyzer
Toxics	Air toxics
Visibility	Measured by nephelometer