



WATER RESOURCES

ABOUT US

Applied Ecology, Inc. (AEI) is a woman- and minority-owned small business formed in 2009. We provide a full spectrum of scientific and technical services to inform ecosystem-level solutions. Our vision is to provide scientifically sound solutions using innovative technologies for challenging environmental problems. We focus on serving municipal, federal, and private sector clients in environmental resource management, ecological studies, water resources, and utilities. AEI is uniquely positioned to provide highly specialized services typically available from large firms while maintaining the personal availability and responsiveness of a small firm. We take pride in providing high-quality work at a great value.

DUNS #:

831443374

CAGE CODE:

6Y5T5

NAICS:

541620 (Primary, Environmental Consulting Services), 541360, 541370, 541380, 541511, 541519, 541611, 541690, 541990, 518210, 562910, 611420, 115310

DESIGNATIONS:

WOSB, DBE, EDWOSB, MBE, 8(a)

MONITORING

- Groundwater, surface water, and stormwater sampling
- Multimedia sampling and analysis
- Groundwater remediation
- Emergent contaminant sampling
- Sampling plan development
- Well installation oversight
- NPDES compliance
- TMDL and BMAP support

ASSESSMENTS

- Source tracking using isotopic analysis
- OSTDS vulnerability assessments
- Seepage studies
- Muck, soil, and sediment assessments
- Time-series analyses for water resources
- Statistical analysis for water quality assessments

MODELING

- Watershed model development
- Water quality and pollution simulations
- MODFLOW, ArcNLET, ArcHydro
- 2-D and 3-D numerical modeling
- Hydraulic and hydrologic studies
- Flushing studies
- Wind and wave energy simulations
- Tidal and current simulations
- Storm surge simulations

OUR CLIENTS:



HEADQUARTERS:

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WATER RESOURCES PROJECT EXPERIENCE

MONITORING PROJECT EXPERIENCE



- County-wide Groundwater Monitoring and Seepage Study: Allocation Nutrient Sources (*Brevard County*)
- Breeze Swept Septic-to-Sewer Retrofit (*City of Rockledge*)
- Surface Water Sampling for BMAP Prioritization (*City of Indian Harbour Beach*)
- Huntington Lake Stormwater Monitoring (*City of Rockledge*)
- Indian River Lagoon Storm Event Monitoring and Load Characterization (*SJRWMD*)
- County-Wide Water Quality Sampling for PFAS and Priority Pollutants (*Brevard County*)
- Biosolids Moratorium Monitoring for PFAS, Metals, and Pharmaceuticals (*Brevard County*)
- Residential Stormwater Quality Evaluation (*Tampa Bay Estuary Program*)
- Sampling of Environmental Muck Dredging Materials for PFAS (*Brevard County*)

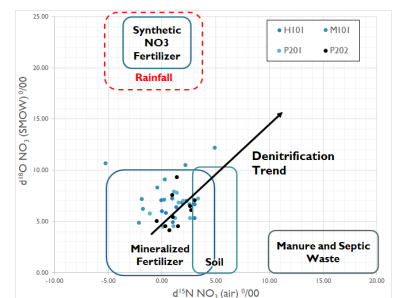


ASSESSMENT PROJECT EXPERIENCE



- Water Use Permitting Statistical Analysis Support (*Brian Ormiston/SWFWMD*)
- NPDES Phase II MS4 Permit Compliance Support (*City of Indian Harbour Beach*)
- Indian River Lagoon Ecological Health Assessment (*Marine Resources Council / IRL National Estuary Program*)
- Groundwater Pollution: Engaging the Community in Solutions (*Marine Resources Council/FDEP*)

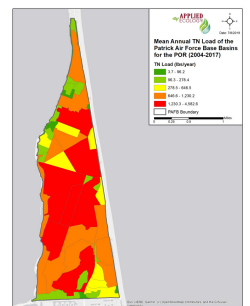
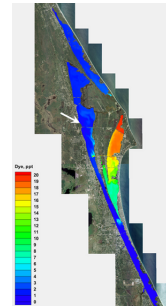
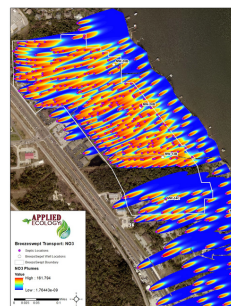
Year	Mosquito Lagoon North	Mosquito Lagoon Central	Mosquito Lagoon South	Banana River
1996	57	64	74	64
1997	68	64	68	79
1998	69	62	53	65
1999	76	67	61	74
2000	88	80	84	78
2001	64	70	83	66
2002	66	66	70	66
2003	67	71	84	77
2004	62	79	78	72
2005	73	77	80	88
2006	87	80	85	82
2007	90	89	92	90
2008	78	82	88	75
2009	77	80	86	80
2010	70	66	76	61
2011	72	61	63	35



MODELING PROJECT EXPERIENCE



- Custom SWIL-based prioritization for the PAFB and CCAFS (*MSE Group/USACE Mobile District*)
- Spatial Watershed Iterative Loading Model (SWIL) Development to Refine the TMDL for the Indian River Lagoon (*Brevard County/Municipalities*)
- Analysis of Onsite Wastewater-Treatment Systems (OSTDS) Potential Loading Impact (*Brevard County*)
- Hydrologic and Water Quality Model for Management and Forecasting within Brevard County Waters of the Indian River Lagoon (*Florida Tech*)



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