Resilience Planning and Actions in Support of NWS Earle

2024 Climate and Coastal Resilience Conference



Our Speakers

Nicholas Ginther, Community Planning and Liaison Officer, NWS Earle Harriet Honigfeld, Supervising Planner, Monmouth Co. Division of Planning Amber Mallm, Environmental Specialist, Monmouth Co. Division of Planning Karen Keene, Director of Development and Communications, Monmouth Conservation Foundation

Bridget Neary, Senior Planner, Monmouth Co. Division of Planning





Naval Weapons Station Earle



MISSION: Provide ordnance for all Atlantic Fleet Carrier and Expeditionary Strike Groups, and support strategic Dept. of Defense ordnance requirements





Navy Mission Under Pressure



Another local base, Fort Monmouth, closed in 2011 due to BRAC process.

Encroachment is the term used in the DoD to describe the types of external pressures military missions and operations face that can impact success.

Encroachment planning review and community engagement helps to prevent incompatible development in surrounding communities & protect Navy mission.

Climate change threats pose a major encroachment to the mission at NWS Earle:

- Sea Level Rise & Coastal Erosion
- Storm Surge & Flood Vulnerability
- Stormwater Storage Capacity
- Wildfire Risk on 11,851 Acres
- Energy Infrastructure & Water Supply
- Strategic Road & Rail Transportation Corridor Access (STRAHNET)





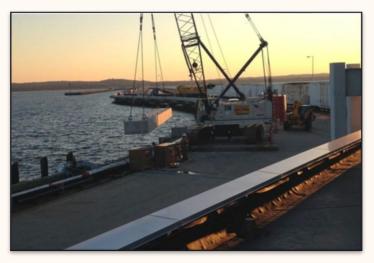




Superstorm Sandy - \$50M in Damage











Community Planning Efforts

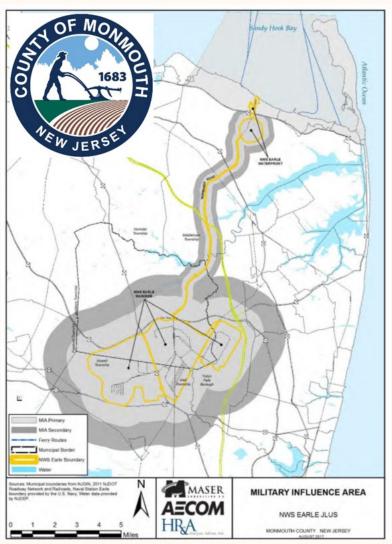
11,851 acres of land in 5 different municipalities in Monmouth County. Operates over 85 miles of rail and 2.9-mile pier complex.

Employs a total combined workforce of over 1,150 persons, with 280 full-time residents.

Our primary and secondary Military Influence Areas (MIA) around the installation, including the operational waters and shipping channels in Sandy Hook Bay established via the JLUS.

Workforce commutes to the site from across the state, including New York and Pennsylvania.

Wide-ranging mission and economic impacts due to the effects of climate change and development pressure.







Overview of Monmouth County's NWS Earle-related Resilience Efforts

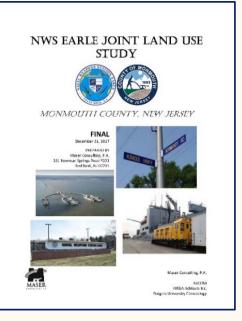
- Joint Land Use Studies
- Coordination with Other Climate and Coastal Resilience Projects
- Land Preservation
- Grants



JLUS I - 2017 NWS Earle Joint Land Use Study

- Identified threats to the sustainable operation of the military base
- Described tactics to improve post-storm resiliency
- Analyzed compatible and incompatible land uses in 13 municipalities
- Sought input from 3 public/professional advisory groups

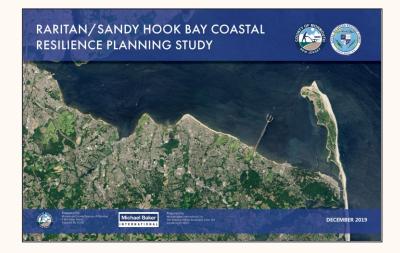
LC/OS	Land Conservation/Open Space	More Compatible
МНР	Mobile Home Park Residential	Less Compatible
ML7	Moderate and Low Income Housing	Less Compatible
ML8	Moderate and Low Income Housing	Less Compatible
NC	Neighborhood Commercial	Conditionally Compatible*

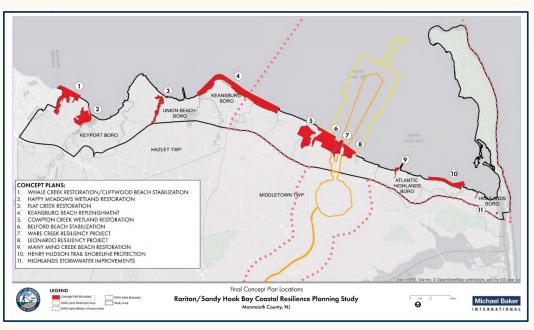




JLUS II - 2019 Raritan/Sandy Hook Bay Coastal Resilience Design Study

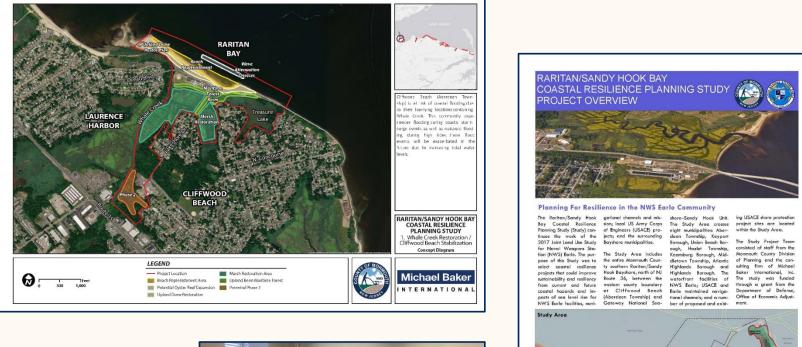
- Identified 11 sites along the Bayshore for ecological restoration and natural solution implementation
- Evaluated suggested sites using a weighted GIS model
- Included general concept plans and proposed plantings







JLUS II Continued





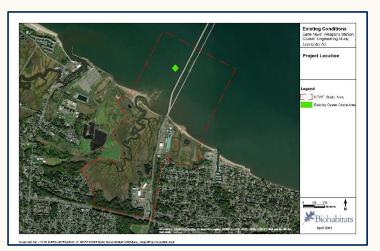


Sludy Area

JLUS II Implementation

 Many organizations are advancing the projects including NY/NJ Baykeeper, the Urban Coast Institute, NJ DEP, and Aberdeen Twp







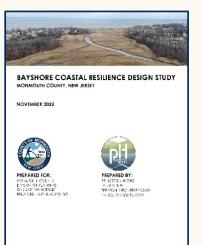






JLUS III - 2022 Bayshore Coastal Resilience Design Study

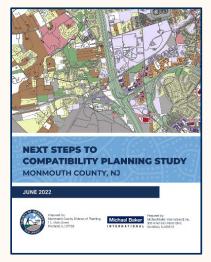
- More in-depth field research, installed temporary tidal monitoring equipment
- More detailed designs for 2 of the 11 sites in JLUS II
- Focused on public parks, complementing ongoing projects
- Amber Mallm will discuss the study in greater detail after my presentation

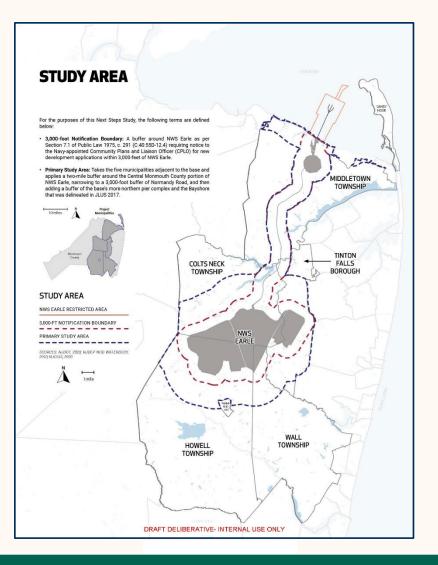




JLUS III - 2022 Next Steps to Compatibility Planning Study

- Further analysis of 5 municipalities immediately surrounding NWS Earle
- Paid particular attention to high-density development and land uses that draw large numbers of people close to the base
- Assembled toolbox of planning measures







JLUS III Continued

Warehouses and affordable housing biggest changes

- Toolbox Categories
 - Policy and Planning
 - Regulatory
 - Outreach, Coordination, Technical Assistance

Appendices

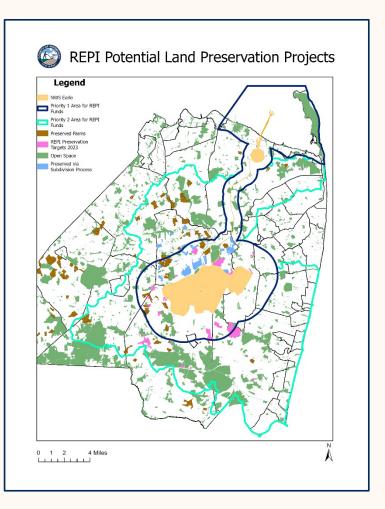
- Implementation Tracking Sheet
- Model Ordinances
- Sample REPI Deed of Easement
- Meeting Materials
- Municipal Zoning Maps
- References

5.0 LAND USE S	SOLUTI	ONS MAT	RIX		
Land Use Solution	Feasibility	Applicable Area	Responsible	Timeline	Potential Partner(s)
POLICY AND PLANNING			Party		
Master Plan integration	High	Municipal-wide	Municipal Planning Department, Municipal Planning Board	Immediate (1 year)	NWS Earle, Monmouth Count
Wildfire and resilience integration	High	Municipal-wide	Planning Board Municipal Planning Department	Immediate (1 year)	NWS Earle, Monmouth County, Navy Region Mid-Atlantic, U.S. Na Park Service, New Jersey State I Service/New Jersey Forest Fire So DEP
Open space and farmland preservation integration	High	Municipal-wide	Municipal Planning Department, Municipal Planning Board	Immediate (1 year)	DoD Navy Region Mid-Atlantic, h Barle, Monmouth County, Monmouth Conservation Founda State of New Jersey Departmen Agriculture's State Agricultur Development Committee, DEI Municipal Agricultural Adviso Committees, Municipal Open Sy Committees
Expand the analysis in this study to the other municipalities in JLUS 2017's delineated Military Influence Area	Medium	Other municipalities within JLUS 2017's delineated Military Influence Area	Monmouth County	Short Term {1 - 3 years) - depending on DoD funding	NWS Earle, DoD Navy Region M Atlantic
Partner with Monmouth County, Monmouth Conservation Foundation, and the DoD on land preservation projects	Medium	Municipal-wide	Municipal Planning Department	lmmediate (1 year)	DoD Navy Region Mid-Atlanti Monmouth County, Monmout Conservation Foundation, NWS E
Develop a corridor safety plan	Medium	Municipal-wide	Municipal Planning and Engineering Department	Short Term (1 – 3 years)	NWS Earle, Monmouth County, I DoD Navy Region Mid-Atlantic, N
Adopt policies that support sound attenuation	Low	Municipal-wide	Municipal Planning Department, Municipal Planning Board	Long Term (3 - 5 years)	NWS Earle, Monmouth Count
REGULATORY Update municipal subdivision regulations to	High	Municipal-wide	Municipal Planning	Immediate (1 year)	NWS Earle, Monmouth Count
enhance disclosure			Department, Municipal Council		



REPI Land Preservation Grant

- Multi-year Agreement between Monmouth County, Monmouth Conservation Foundation and Navy
- Completed first two closings in the Fall of 2023
- Karen Keene will describe this program in greater detail later in the session
- Complementary farmland and open space preservation also occurring in project area





Leveraging Grants

- \$592,500 in OLDCC grants awarded to Monmouth County for planning & design studies (10% in-kind match required)
- Implementation grants to county & partners include those from:
 - US Navy/REPI Land Preservation Program (\$3.2 million)
 - 2024 Carbon Sequestration Funds (\$666k)
 - 2022 REPI Challenge Program (\$1 million)
 - Office of Naval Research (\$2.95 million via 2 grants)
 - National Fish and Wildlife Foundation (\$776k)
 - National Defense Authorization Act (\$2.9 million)
 - Shared Services Agreement (\$1 million)
 - Municipal cost share funds (\$792k)





What's Next and Lessons Learned

- Extend REPI Multi-year Agreement & add more \$
- Continue to support partners implementing JLUS studies
- Reapply to become a Sentinel Landscape
- Strengthen bridge between JLUS work and Community Rating System support program



2022 Bayshore Coastal Resilience Design Study



Whale Creek, Aberdeen



Flat Creek, Union Beach





Biological Benchmarks

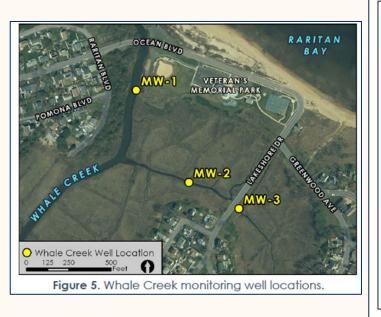
- Plants identified
- Elevation recorded
- Plant community zones then categorized as low marsh, high marsh, or marsh border

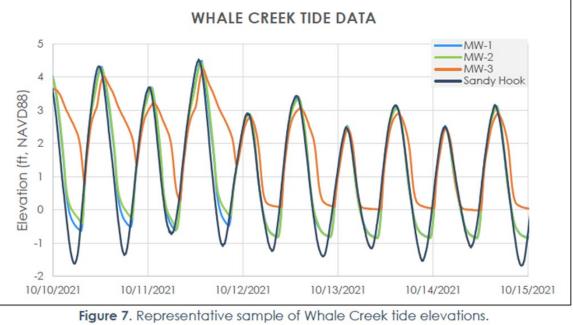




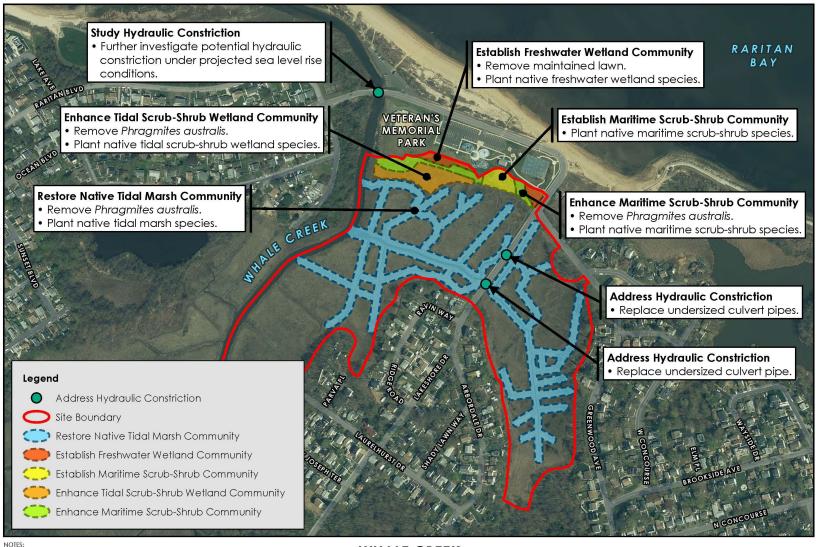
Hydrologic Data Collection

- Measured water levels throughout tide cycles
- Data reveals potential constriction at Whale Creek









WHALE CREEK CONCEPTUAL DESIGN

BAYSHORE COASTAL RESILIENCE DESIGN STUDY ABERDEEN TOWNSHIP MONMOUTH COUNTY, NEW JERSEY



0 200 400 Feet

 Concept design and site boundaries are approximate.
 2020 orthoimagery and roads obtained from the NJ Geographic Information Network (NJGIN) Open Data portal: https://njgin.nj.gov/

Map Projection: NAD 1983 2011 StatePlane New Jersey FIPS 2900 Ft US



NOTES 1. Concept design and site boundaries are approximate. 2. Pump station and sluce gate proposed by the United States Army Corps of Engineen, "Humicane Sandy Limited Reavolution Report", June 2017. 3. Road to bland form the NL Geographic Information Network (NJGN) Open Data portal: https://nigin.gov/ 4. 2022 eakel intager vol blane from Nearmap.



Map Projection: NAD 1983 2011 StatePlane New Jersey FIPS 2900 Ft US

FLAT CREEK CONCEPTUAL DESIGN

BAYSHORE COASTAL RESILIENCE DESIGN STUDY UNION BEACH BOROUGH MONMOUTH COUNTY, NEW JERSEY



Where are They Now?

Aberdeen

- DPW considering installing tide valves to improve drainage
- Seeking permits for naturebased restoration
 - Rock sills to break wave energy
 - Beach replenishment
 - Potential dune expansion and planting

Union Beach

Continuing USACE project





Who is Monmouth Conservation Foundation?



Founded in 1977

- Acquires and preserves open space and farmland and conserves natural habitats throughout Monmouth County in support of outdoor recreation, agriculture, clean water, and wildlife for long-term sustainability
- An independent nonprofit organization that works with Monmouth County and its 53 municipalities
- MCF's vision is to lead conservation and education efforts to preserve and protect our natural environment, so all individuals and communities have access to and can benefit from open space and nature for generations to come



REPI Land Preservation Grant

- Multi-year Agreement (MYA) between Monmouth County, Monmouth Conservation Foundation, and Navy
- Objectives:
 - Protect the safety, security, and resiliency of NWS Earle
 - Limit incompatible land uses around NWS Earle
 - Address climate change hazards
 - Preserve farms, open spaces, and natural habitats
- How to obtain these objectives?
 - Through the purchase of development rights via conservation easements







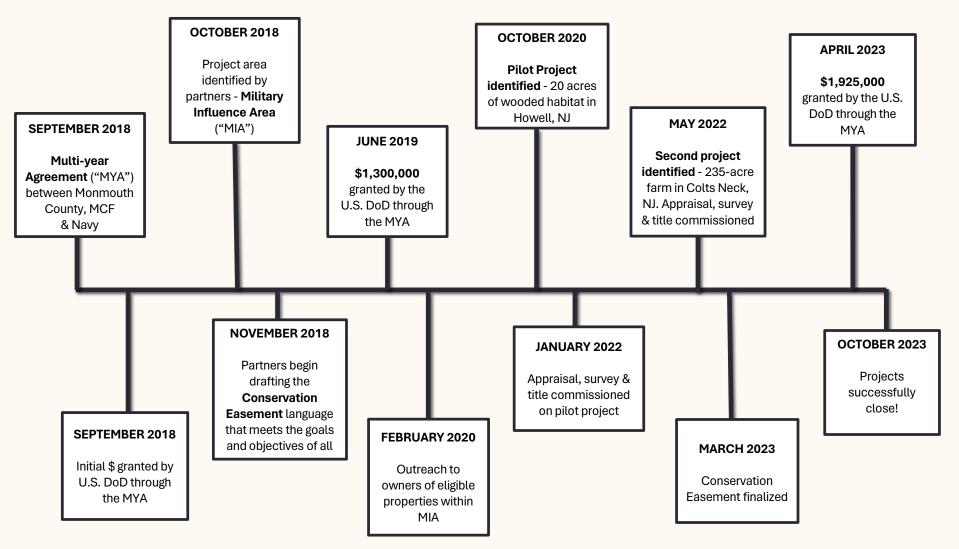
What is a Conservation Easement?

- A voluntary land protection agreement between a private landowner and a land trust or a government agency
- Restricts certain land development, such as subdivision for residential or commercial activities
- A monetary value is associated with the sale/extinguishment of these development rights
- Permanently protects unique resources and conservation values found on a property – i.e., scenic, wildlife, agricultural, ecological, or recreational qualities
- Allows private landowners to retain ownership of their property
- Guarantees the land's conservation values will be protected forever





REPI Land Preservation Grant Timeline





REPI Land Preservation Grant Pilot Project Howell, Monmouth County, NJ

- 20-acre wooded property in densely developed area
- Contiguous to NWS Earle
- Located within 2-acre zone opportunity for 10 residential lots
- Partners: MCF, Navy, Monmouth County, Howell









REPI Land Preservation Grant Pilot Project Howell, Monmouth County, NJ



- Biologically diverse forest habitat with varied species composition
- Stands of century forest and groves of American Holly
- Wetland habitat
- Offers groundwater recharge and aquifer protection
- Significant wildlife habitat including threatened and endangered species habitat
- Connecting Habitat Across New Jersey (CHANJ) core wildlife habitat and wildlife corridor





REPI Land Preservation Grant Colts Neck, Monmouth County, NJ

- 235-acre thoroughbred horse breeding, raising, and training farm
- Contiguous to 520-acre Monmouth County Park and NWS Earle
- Located within 10-acre zone, preliminary approvals for 30 conforming residential lots
- Partners: MCF, Navy, Monmouth County, Colts Neck





REPI Land Preservation Grant Colts Neck, Monmouth County, NJ

- Diverse forest and wetland habitat
- Pasture and hay fields
- Abuts Iron and Obre's brooks trout maintenance streams, tributaries of Hockhockson Brook (C1 stream) that flows into the Navesink and Swimming rivers
- Vernal pools
- Important groundwater recharge
- Prime agricultural soils
- Threatened and endangered species habitat
- Connecting Habitat Across New Jersey (CHANJ) core wildlife habitat and wildlife corridor

















REPI Land Preservation Grant Next Steps

- Properties within the MIA are being analyzed and ranked to determine if they meet the project criteria
- Landowner outreach will be conducted on highranking targets
- Additional funding will be requested from the Navy for cost share













- Realized there was a lot of overlap in resilience projects and no centralized source for what and where projects are happening
- Created crowdsourced WebApp/Map using ESRI products (WebMap and Survey 123)
- In July 2023 hosted special in-person CRS Users Group meeting
- Invited BAs/OEM from all 53 municipalities; Federal, State, & County agencies; NGOs, nonprofits, & academic institutions; and consultants





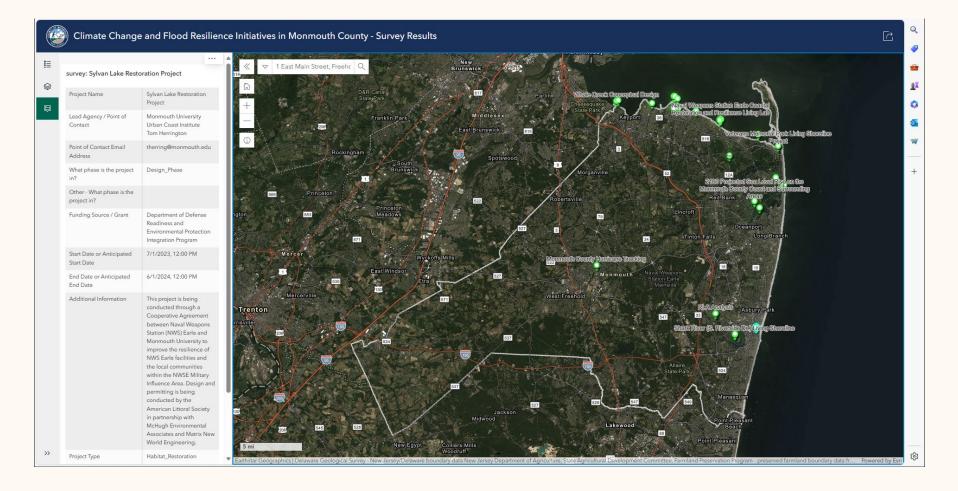
- Released the WebApp/Map for the CRS Users Group meeting in July 2023
 - Attendees had opportunity to add points ahead of time or at the meeting in real time (in Survey 123)
 - Could be done from phone, tablet, or laptops set up around the room
 - Results were displayed on screen as points were added
 - Attendees were encouraged to discuss their projects with the audience
 - Also acted as networking event and opportunity to reconnect, as many of the attendees had only ever met via virtual meetings or had not been together in person since before the pandemic
 - Survey and WebApp are live for anyone to add points



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THANK YOU

Questions & Answers