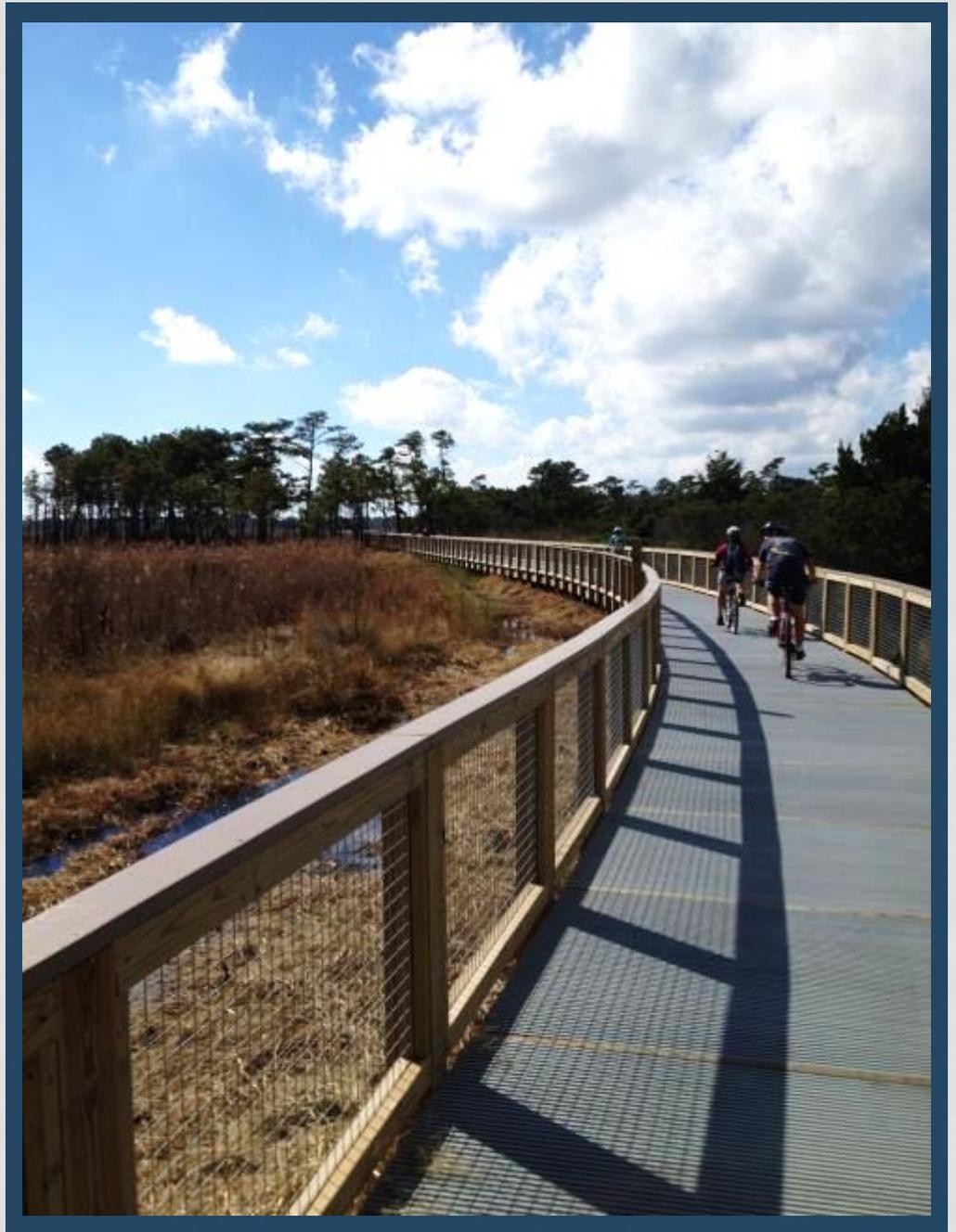




**Fiscal 2017
Budget Hearing
November 20, 2015**

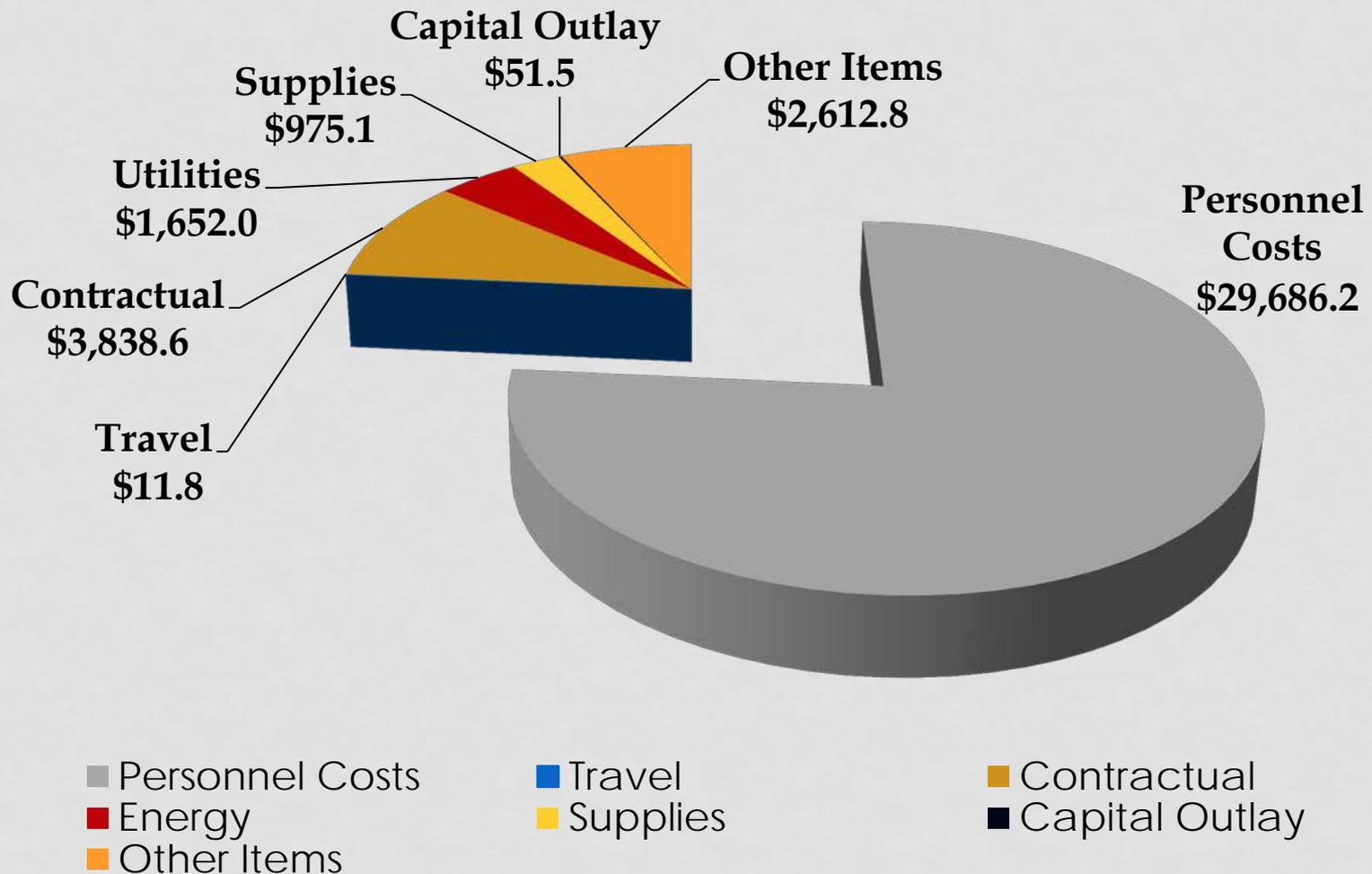


DNREC OPERATING BUDGET



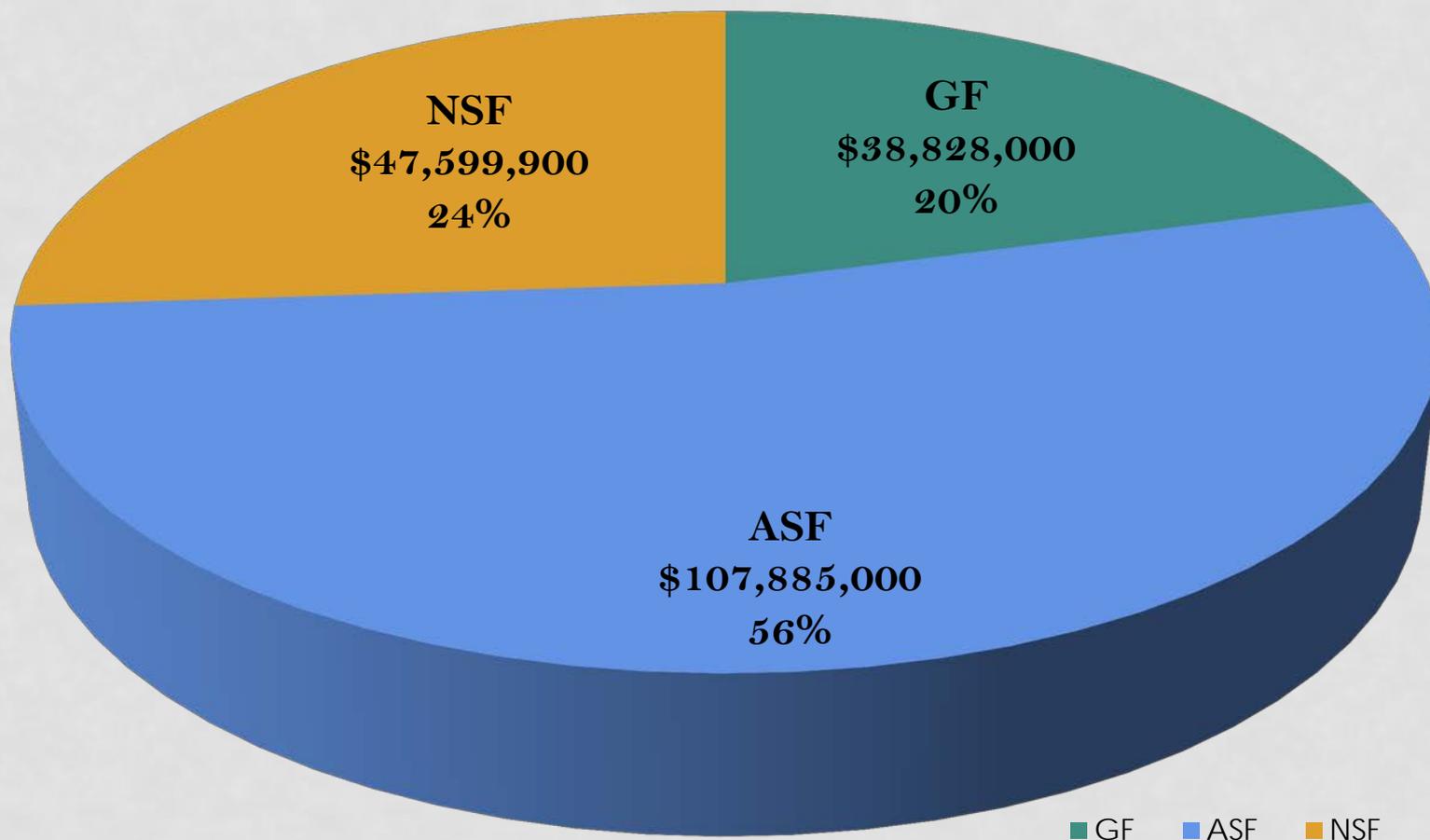
➤ FY2016 General Fund Budget	\$36,587,900
➤ FY2016 request to support:	
• State Salary Policy Contingency	\$1,719,600
• New Operations at Michael Castle and Junction & Breakwater	\$ 188,600
• Quality Improvement Environmental Health & Safety Program	\$ 90,000
• Permitting Assistance to Improve Water Quality – Reducing NPDES Backlog and Unfunded Federal Mandates	\$ 75,000
• Shellfish Aquaculture (annualized costs for full program implementation)	\$ 10,000
• Network/Software Maintenance	\$ 97,500
• Bayshore Interpretation Support at DNC	\$ 33,000
• Bayshore Wildlife-Viewing and Visitor Center Operations	\$ 26,400
• Minor Structural Changes and FTE movements (no net impact)	
➤ FY2017 General Fund Budget Request	\$38,828,000
➤ Other Requests: FY2017 Appropriated Special Fund Adjustments for RGGI and Parks <u>Spending Authority Only.</u>	

FISCAL YEAR 2017 GENERAL FUND REQUESTED BUDGET: \$38,828,000

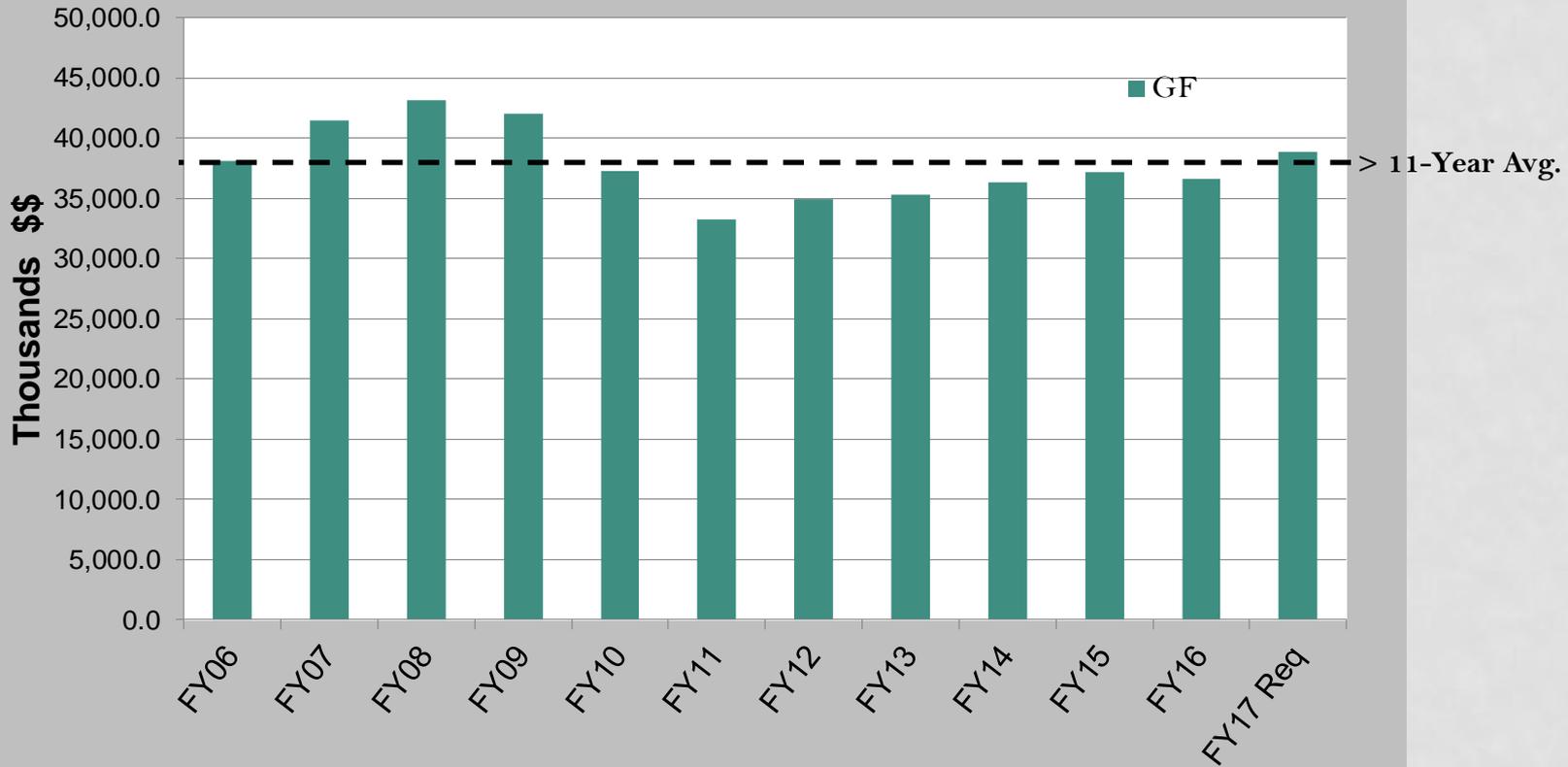


FISCAL 2017 REQUESTED BUDGET

Total of All Funds: \$194,312,900

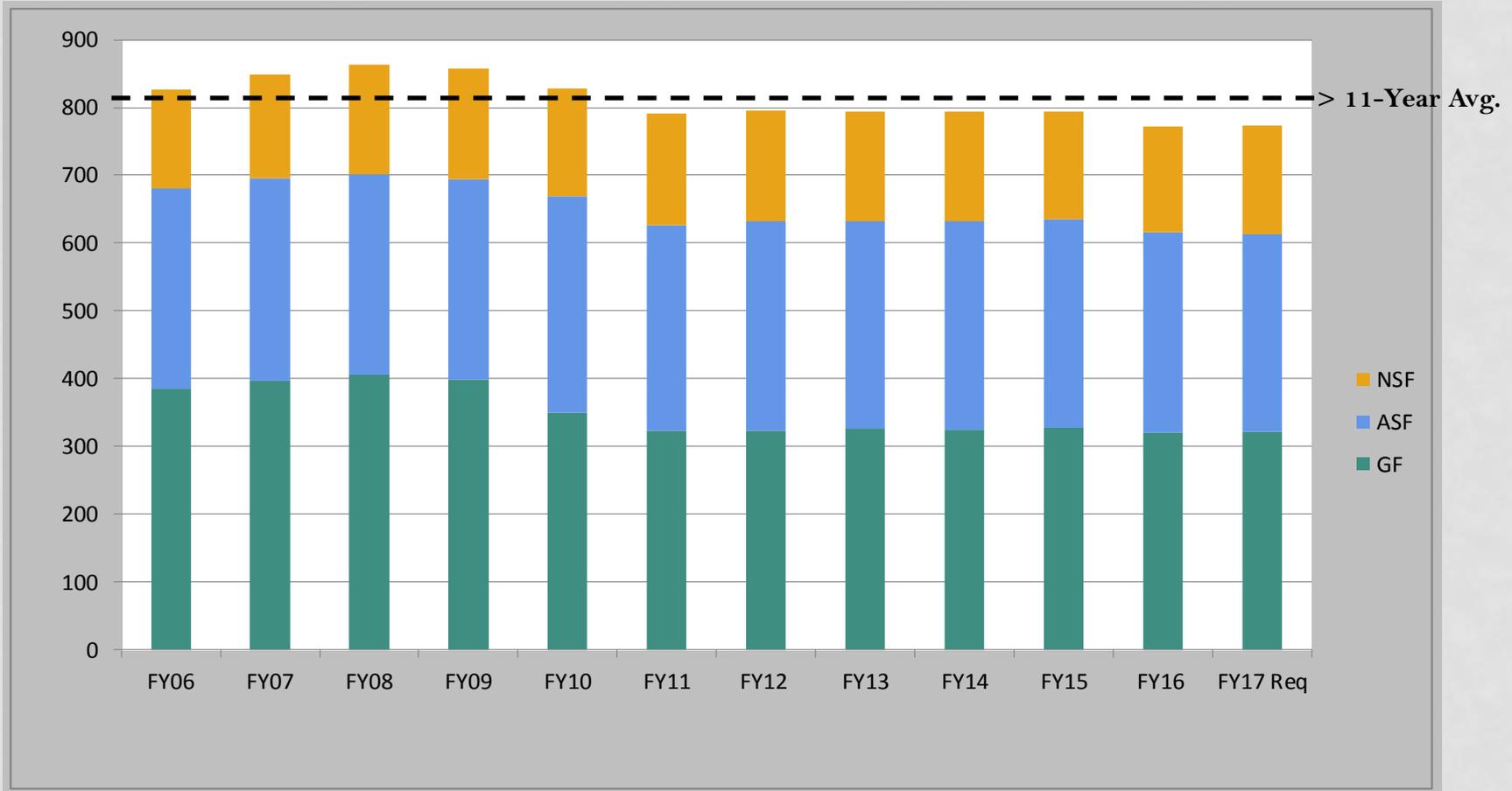


DNREC GF BUDGET HISTORY



REQUESTED FY2016 BUDGET

DNREC POSITION HISTORY



* Of the 773 FTE positions, 680 are currently filled and another 22 are in process for FY2016.

DNREC TRAIL OPERATIONS \$188.6K

Michael Castle Trail (\$151.4k)

- Third and final phase – the State Line Connector – to align DE and MD trail segments.
- ~2.9 miles and a third trailhead with parking and restrooms.
- Operating funds will provide for daily operations, maintenance and public safety.



Junction & Breakwater Trail (\$37.2K)

- 1.6 miles of new trail added in 2015
- DNREC manages 12 miles of the 16-mile regional trail system.
- Supports thousand of hikers, joggers, walkers and bikers weekly.
- Operating funds provide for public safety, facility operations and trail maintenance



Chesapeake & Delaware Canal Michael Castle Trail West



Chesapeake & Delaware Canal Michael Castle Trail East

Miles Complete	
Mike Castle Trail (Delaware)	10.1
Promenade (Delaware City)	0.8
Maryland Trail Segment	1.3



Lewes and Rehoboth

Delaware Bay



Great Marsh Preserve

Georgetown-Lewes-Cape Henlopen Rail with Trail (1.8mi.)

Lewes

Atlantic Ocean

Georgetown-Lewes-Cape Henlopen Rail with Trail

Junction & Breakwater Trail Extension (1.6 mi.)

Cape Henlopen State Park

Gordons Pond Trail

Lewes Rehoboth Canal

Junction & Breakwater Trail (5.3 mi.)

Rehoboth Beach

Legend

- | | | | |
|--|--------------------|--|----------------|
| | Trails In Progress | | Public Lands |
| | Future Trails | | Municipalities |
| | Pedestrian Trails | | Water |
| | Shared-Use Trails | | Trail Head |
| | Share the Road | | Campground |
| | | | Bicycle Lane |
| | | | Sidewalk |

QUALITY IMPROVEMENT ENVIRONMENT HEALTH AND SAFETY PROGRAM - \$90.0K

- Commitment to protecting our most valuable resource through the formal adoption of a health and safety program.
- Funding will provide for an industry expert in Quality Improvement, Health and Safety for consultation and technical assistance to all levels of DNREC staff.
- Expected performance:
 - Monitor field and workplace practices
 - Perform facility inspections and risk assessment
 - Lead investigations and exercises
- Anticipated Results:
 - Quality assurance
 - Best practices
 - Environment health
 - Safety standards
 - Proactive measures



PERMITTING ASSISTANCE TO IMPROVE WATER QUALITY - \$75K

Critical Need: Reduce NPDES Permit Backlog, Continue to Address Unfunded Federal Mandates, and Ensure Core Services

Impacts:

- 417 Industrial Facilities
- 439 Agricultural Facilities
- 12 Municipalities and Towns

Supporting NPDES assessments:

- Delaware Animal Agricultural Program Assessment
- State Review Framework
- Permit Quality Review

Risks:

- Continue to have impaired surface water bodies throughout the state.
- US Environmental Protection Agency cutting funding for other water quality programs as well as conducting enforcement and compliance actions without state involvement.



SHELLFISH AQUACULTURE INITIATIVE

H.B. 160 OPERATING BUDGET REQUEST

\$10.0K

- Support the provisions of enabling legislation and established regulations.
- Provides amortized funding to fully implement new program.
- Essential activities include:
 - Shellfish research
 - Water quality monitoring
 - Lease administration
 - Licensing
 - Compliance
 - Public safety



IT APPLICATION & SOFTWARE SUPPORT - \$97.5K

- Provides vital connectivity for internal use and for customers and constituents who rely on environmental information.
- Supports 2,500+ annual software licenses and ensures current technology standards are met to maintain >230 environmental and recreational applications that require a variety of data classifications to include public, confidential and legally protected data.



BAYSHORE INTERPRETATION SUPPORT - \$33.0K



DuPont Nature Center:

- Integral to Bayshore Initiative is implementing conservation, recreation and ecotourism goals.
- DNC provides vital wildlife interpretation, outreach and education to 10,000 Bayshore visitors annually.
- Wildlife and ecotourism activities of the Center are not eligible for federal fisheries support.
- Requested funds will allow State-supported Bayshore activities to continue at this key ecotourism site.



BAYSHORE WILDLIFE-VIEWING AND VISITOR CENTER OPERATIONS - \$26.4K

Provides support to facilities scheduled to open at Woodland Beach, Little Creek and Ted Harvey:

- Bayshore visitor centers
- Viewing structures
- Parking areas and restrooms
- Signage and interpretive areas



Collaborates efforts of partners:

- DelDOT Byways Program
- 15 Local Town and Communities
- New Castle, Kent and Sussex Counties
- American Birding Association, Delaware Community Foundation, Ducks Unlimited, Delaware Wild Lands, Delaware Nature Society, The Nature Conservancy

DELAWARE STATE PARKS NATIONAL RECOGNITION



 **USA TODAY TRAVEL**

50 state secrets: Hidden gems to visit around the USA



Delaware's park system tops in nation
State parks win prestigious Gold Medal Award for Excellence

TWC

The Weather Channel:
Best Swimming spot in the State
of Delaware – Cape Henlopen



Delaware State Parks received the 2015
State Comprehensive Outdoor Recreation
Plan (SCORP) Excellence Award.

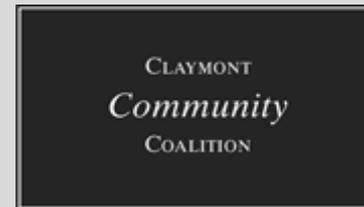
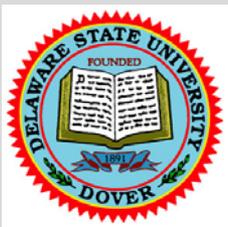
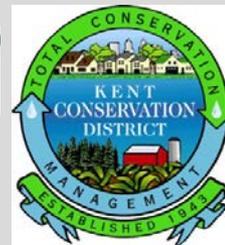
STRENGTHENING COMMUNITY PARTNERSHIPS



THE CONSERVATION FUND

America's Partner in Conservation

Nemours.

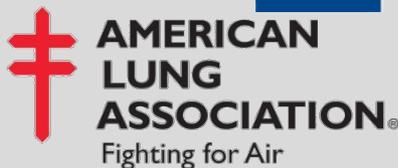
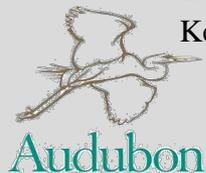
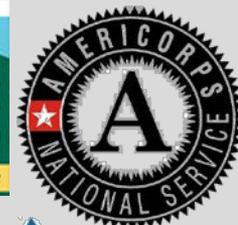


DCEC

Keeping it Clean and Green



LEAGUE OF WOMEN VOTERS
PALOS VERDES PENINSULA/SAN PEDRO





Delaware's Brownfield program removes a legacy of pollution to maintain our environmental objectives while still growing our State economy.

- **In fiscal 2015 228 Brownfield sites have been certified statewide:** 76 redeveloped as commercial properties; 26 redeveloped as residential; and 13 redeveloped as parks and community areas. The remaining 113 are in investigative and remedial phases.
- In the past 12 years, over \$40 million has been invested to bring properties back into productive use and increase the Delaware tax base.
- The University of Delaware study illustrated that for every \$1 invested by the State a \$17.50 return of investment was achieved, making that a **return of \$525 million** in the past 7 years.
- Since March 2015 DNREC has received **230 applications** for UST assistance from homeowners.
- **163 removals** have been completed as of November 2015 in this effort protect Delaware's drinking water supplies.





Landmark Universal Recycling Legislation enacted in 2010 now provides effective and convenient access to single stream recycling.

- Recycling program has created jobs and new industry; saved Delawareans money; and improved the health of residents and the environment.
- Delaware's recycling diversion rate is 42% - higher than the national rate of 34.3%

US. Dept. of Energy recognized Delaware last year for reducing greenhouse gases more than any other state in the nation over the last decade -- by almost 30 percent.



- Climate Framework for Delaware - EO 41 pathway to resilient state operations. State agency adaptation and mitigation measures currently under review.
- Regional Greenhouse Gas Initiative (RGGI) is preferred pathway of compliance with new Federal Clean Power Plan
- Funding for clean vehicle and alternative fueling infrastructure grants currently available.



Achieving the Clean Energy Economy

DNREC , as a lead example, implemented conservation measures and changes in the R&R Building that reduced energy use by 54%; saved ~\$650k; and reduced facility emissions by 54%.

- Delaware's solar capacity expanded from **2** mW in 2008 to **62** mW last year.
- Energy Efficiency Investment fund (EEIF) has helped fund over **350 projects**, leveraged **\$44M⁺** in private investments since 2012, and **saved >78 million kwh** per year. These energy savings translate into a combined savings of over \$8.0 million each and every year – often for 20 years or more.
- State's weatherization Assistance Program has **increased aid by 400%** to low income homeowners and saved an average of \$400 annually on energy costs for over 2000 low income Delaware households.

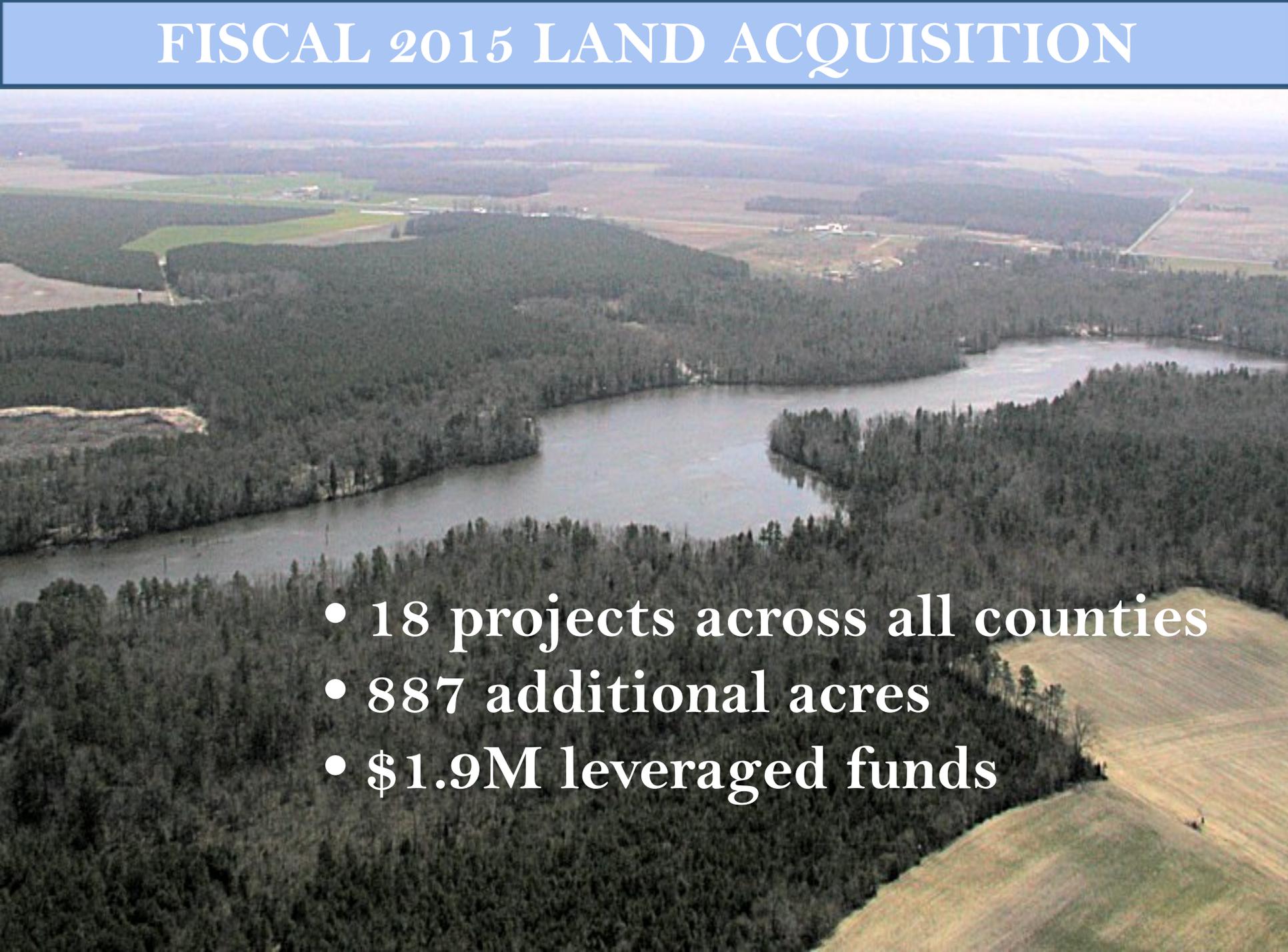
DNREC has initiated a number of efforts in recent years to enhance the effectiveness and efficiency of the agency.

- Air Quality Title V Management Review –targeted for completion by December 31, 2015.
- Turnaround times for septic permits (>500 gallons per day) - averaging less than 5 days for gravity permits and less than 10 days for engineered permits and site evaluations.
- Wetland and subaqueous land permits - averaged 41 days in 2013 , a reduction of 14 days from 2011.



Permitting Efficiencies

FISCAL 2015 LAND ACQUISITION

- 
- 18 projects across all counties
 - 887 additional acres
 - \$1.9M leveraged funds

FY2017 CAPITAL BUDGET REQUEST ~\$44.4M

• Shoreline and Waterway Management	\$7,500,000
• Conservation Cost Share	2,000,000
• Conservation Reserve Enhancement Program (CREP)	1,000,000
• Clean Water State Revolving Fund	1,400,000
• Tax Ditches	1,400,000
• Killens Pond Waterpark Phase II	2,500,000
• High Hazard Dam and Dike	1,500,000
• Park and Wildlife Area Critical Facilities	6,500,000
• Trails and Pathways	3,000,000
• Resource Conservation and Development (RC&D)	3,000,000
• Coastal Impoundments and Water Control Structure Rehab	1,000,000
• Water Supply Monitoring Network	713,000
• Redevelopment of Strategic Sites (NVF and Fort DuPont)	5,500,000
• Critical Equipment for Operations	740,000
• Delaware Bayshore Initiative	500,000
• Phase I Refitting of the Env. Lab in the R&R Building	902,426
• Cape Pier Design and Permitting	1,000,000
• Licensing and Registration Technology (Hunt/Fish/Boat)	3,000,000
• Fort Miles	500,000
• Little Creek Boat Ramp	250,000
• Holts Landing Improvements	250,000
• Dobbinsville (New Castle) Fishing Pier	250,000

FOCUSED ON PROTECTING AND ENHANCING DELAWARE'S NATURAL RESOURCES AND CAPITAL INVESTMENTS

- Managed lands = nearly 100,000 acres
- Recreational areas = 32 park and wildlife areas, 10 preserves, 124 other conservation easements, Brandywine Zoo, Baynard Stadium
- Wildlife Recreation Participants = ~450,000
- Freshwater ponds and marine fishing access areas = 57
- Miles of roads = 100+
- Miles of trails = 244
- Miles of managed shoreline = 56
- State-owned dams = 42
- Tax ditches = 2,000 miles
- Park Visitors = >6.4 million visitors
- Students/Educators (served) = 29,543
- Anglers (registered) = 126,504
- Hunters (registered) = 20,270
- Boaters (registered) = 59,337
- Waterways = 71 miles



CRITICAL INFRASTRUCTURE INVESTMENTS



SHORELINE AND WATERWAY MANAGEMENT - \$7.5M

Benefits:

- Protection from flooding & storms
- Provides safe navigation for boaters
- Improves water quality
- Coastal economy generates \$7 billion annually and employs ~60,000



Supports:

- Ocean and Bay Beach nourishment
- Erosion control and Dune maintenance
- Storm repair and clean up
- Channel dredging and beneficial use
- Navigational markings and debris removal
- Macro-algae harvesting
- Cost share for federal beach nourishment
- UD Citizens Monitoring of water quality

SHORELINE AND WATERWAY

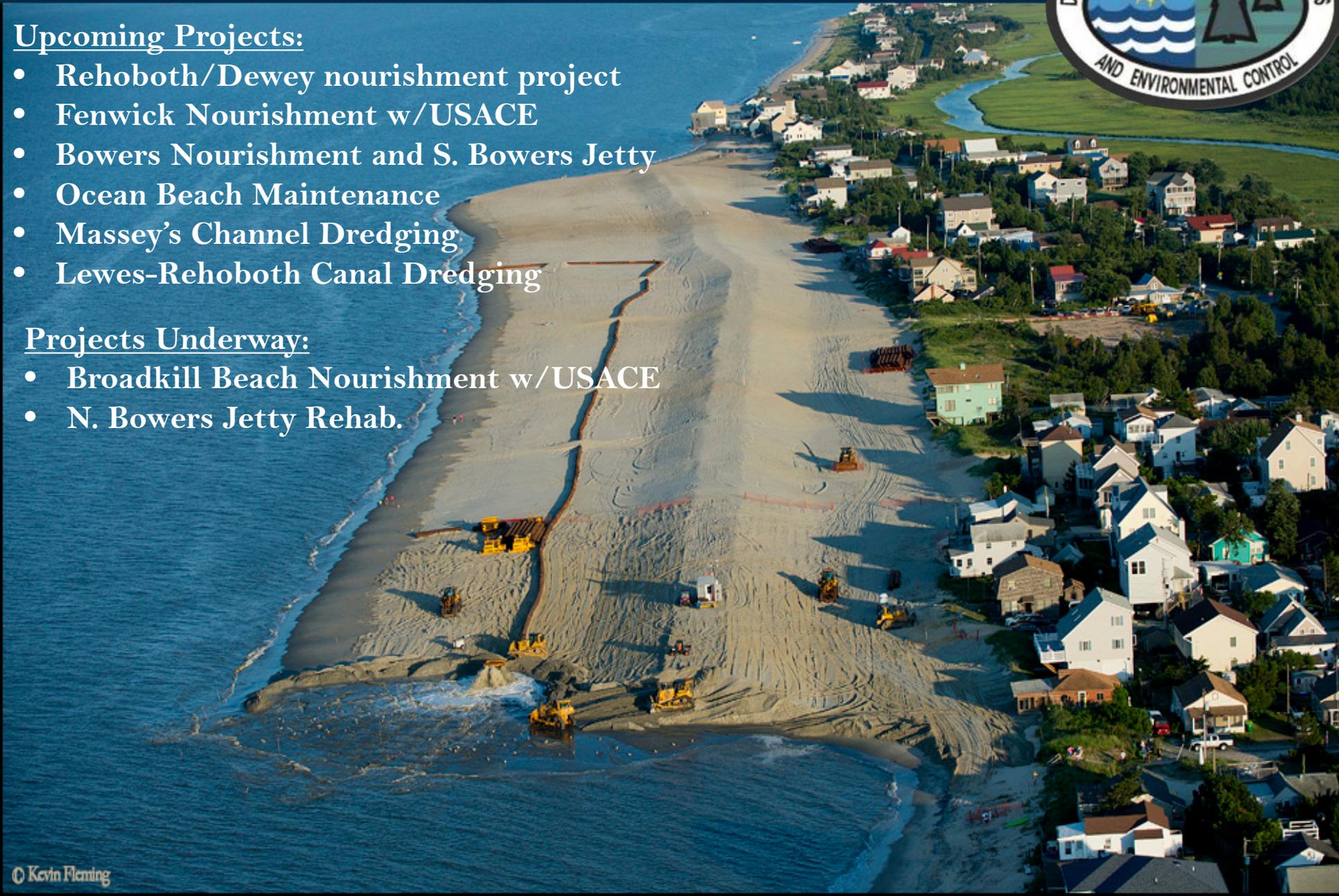


Upcoming Projects:

- Rehoboth/Dewey nourishment project
- Fenwick Nourishment w/USACE
- Bowers Nourishment and S. Bowers Jetty
- Ocean Beach Maintenance
- Massey's Channel Dredging
- Lewes-Rehoboth Canal Dredging

Projects Underway:

- Broadkill Beach Nourishment w/USACE
- N. Bowers Jetty Rehab.



CRITICAL INFRASTRUCTURE INVESTMENTS



CONSERVATION COST SHARE - \$2.0M

- For every \$1 of State Cost Share, \$5.78 in federal and private dollars are invested to BMPs.
- Planted 33,500 acres of cover crop with available resources
- Annually reduced total nitrogen by 315,780 pounds, total phosphorus by 656 pounds



CRITICAL INFRASTRUCTURE INVESTMENTS



CONSERVATION RESERVE ENHANCEMENT PROGRAM (CREP) - \$1M

Supports:

- \$1M investment leverages \$3M of Federal USDA funds
- Removes up to 20,000 acres of marginal agriculture lands from production and enrolls the acreage in conservation practices

Benefits

- Reduce nutrient and sediment loads to impaired waterbodies of Delaware
- Improves aquatic temperature and dissolved oxygen criteria necessary to support biology and wildlife
- Increase upland wildlife habitat and create wildlife corridors



CRITICAL INFRASTRUCTURE INVESTMENTS

CLEAN WATER STATE REVOLVING FUND - \$1.4M

CWSRF Capitalization Grant Required Match:

- Anticipating \$6.9M in federal funding
- Loan applications received for FY2016 = \$102M
- Program has leveraged >\$219M in federal dollars since inception and closed on 76 municipal loans for nearly \$299M

Benefits:

- Reduces costs of financing
- Protects water quality and public health
- Supports local economies
- Creates and supports thousands of jobs



CRITICAL INFRASTRUCTURE INVESTMENTS



TAX DITCH / PUBLIC DITCH - \$1.4M

Provides support to 240 organizations on drainage infrastructure, channels, and related water management projects statewide:

- Planning, surveying & engineering
- Permitting and construction inspections



KILLENS POND WATERPARK PHASE II-\$2.5M



LEGEND

1 CONCESSIONS STAND	26 RENOVATED BUILDING POOL WICH
2 RACING SLIDE	27 RENOVATED BUILDING LOCKER ROOM
3 PLAY STRUCTURE (2-4YR BLDG)	28 TICKETING BOOTH
4 PLAY STRUCTURE (5-8YR BLDG)	29 OVERFLOW PARKING
5 NAUTICAL	30 FUTURE PARTNERSHIP OPPORTUNITY
6 SHADE STRUCTURE	31 NEW BATHHOUSE
7 PLAY/SLIDE	32 BODY BOWLS
8 TOWER CLIP SWIMMING	33 FUTURE CONCESSIONS OPPORTUNITY
9 SPRAY GROUND	34 FINALE SLIDES
10 FINALE PAULSON	35 NEW POOL WICH BLDG
11 PHASE 1 BODY SLIDE	36 MAIN POOL OVERVIEW
12 PHASE 2 SLIDE	37 PRIVATE SHIP SLIDE
13 CURRENT D-HALL	38 W/ DEVELOPMENT
14 CABANA	



Lifeguard and First Aid Building Renovation

LEGEND

NEW BUILDING	EXISTING BUILDING TO BE RENOVATED	CAR CIRCULATION
SHADE STRUCTURE	WATER PARK ELEMENT	BUS CIRCULATION
LOOKERS		FOOT WASH / DECK SHOWER

CRITICAL INFRASTRUCTURE INVESTMENTS



DAM AND DIKE REPAIR/REPLACEMENT - \$1.5M

- Provides emergency planning, monitoring, engineering, and maintenance repairs to state-owned dams in partnership with DelDOT
- Provides for investigation and minor repairs to state dikes
- Protects communities and infrastructure
- Highest priority projects:
 - Hearn's and Records
 - Garrison Lake
 - Chipmans Pond
 - Concord Pond
 - Craigs Mill Pond
 - Mudmill Pond

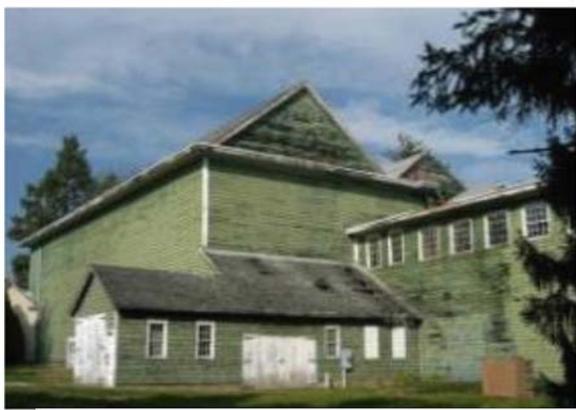


SUPPORTING HEALTHY FAMILIES - INVESTING IN RECREATIONAL ASSETS



PARK AND WILDLIFE AREA CRITICAL FACILITY REHABILITATION - \$6.5M

- Facility Maintenance
- Road & Parking Rehabilitation
- Historical Structure Repairs
- Critical Roofing
- Utility Infrastructure
- Recreational Access



SUPPORTING HEALTHY FAMILIES



TRAILS AND PATHWAYS - \$3.0M

2015-2016 Accomplishments

- Junction & Breakwater Extension
- Assawoman Canal Trail – Phase I
- Brandywine Creek SP – bridge replacement
- Resurfacing Northern DE Trail
- Tri-Valley - planning
- Augustine WA
- BCSP Trail Plan
- Plan for the Cape segment of the Georgetown-Lewes-Cape Trail



2017 Priorities

- Parks: Lums Pond, White Clay, Auburn Heights, Brandywine Creek, Cape Henlopen, Assawoman
- Bayshore: Taylors Gut, Ashton Tract, Ted Harvey, and Little Creek Wildlife Areas

CRITICAL INFRASTRUCTURE INVESTMENTS



21ST CENTURY (RC&D) - \$3M

Provide continued funding for engineering and construction of water management projects:

- More than 1,600 projects completed since 1996 (\$59M)
- More than 850 projects approved in all counties for funding
- Sussex County resources to be fully expended in 2017
- Kent County to be fully expended in 2018



CRITICAL INFRASTRUCTURE INVESTMENTS



COASTAL IMPOUNDMENT & WATER CONTROL STRUCTURE REHABILITATION - \$1.0M

- Opportunities to leverage federal funds
- Priority Structures in Augustine, Woodland Beach, Little Creek, Ted Harvey, and Assawoman Wildlife Areas



Coastal Impoundments:

- Nourish beach habitats
- Protect shoreline from storm surge
- Prevent loss of coastal wetlands
- Protect recreational areas



WATER SUPPLY MONITORING NETWORK - \$713K



- Necessary to track the condition of water supply resources.
- Conflicts include public, ag, and industry users, as well as salt intrusion.
- 2012 funds provided for New Castle monitoring.
- 2017 request for Kent monitoring.
- 2019 request for Sussex monitoring.

PRESERVING NATURAL HERITAGE & EXPANDING ECOTOURISM

REDEVELOPMENT OF STRATEGIC SITES - \$3M

NVF:

- Remediate contaminated soils (with HSCA)
- Stabilize/rehabilitate key structures
- Continue to develop recreational amenities
- Expand open space and trails
- Establish wetland areas and flood mitigation



Contaminant removal in 2013-14:

- More than 360,000 lbs. of solid and hazardous wastes including zinc chloride, sodium hydroxide, acids and mercury
- Majority of asbestos from buildings
- 9,337 gallons of zinc hydroxide sludge removed from the onsite groundwater zinc recovery systems in 2013
- 59,344 pounds of zinc removed from the groundwater beneath the site via the treatment system since 2008

Fort DuPont Redevelopment and Preservation Corporation - \$2.5M

- Created July 23, 2014 through House Bill 310
- Charged with the management, preservation and development of Fort DuPont
- Development plans underway include:
 - The restoration of 14 buildings
 - Site design and engineering
 - Infrastructure improvements
 - The design of a new marina



Fiscal 2017 Funding Request:
\$250k - Administrative Expenses
\$2.25M - Site Upgrades & Building Restorations

CRITICAL EQUIPMENT - \$740K



- Environmental and natural resource operations
- Conservation, protection and research activities
- Public services and infrastructure
 - ~100,000 acres of public land
 - 57 freshwater ponds and marine fishing areas
 - 47 boating access areas
 - 71 miles of Delaware waterways
 - Coastal and bay shoreline
 - Environmental laboratory services



PRESERVING NATURAL HERITAGE & EXPANDING ECOTOURISM



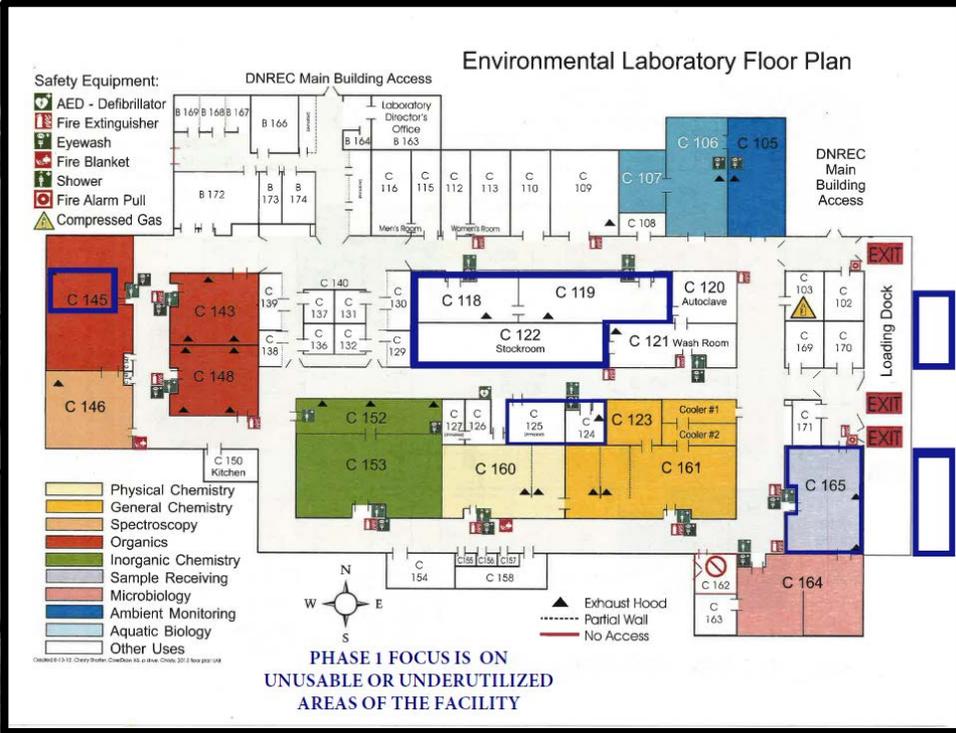
DELAWARE BAYSHORE INITIATIVE - \$500K

2017 Priorities Include:

- Little Creek Wildlife Viewing Loop design
- Ted Harvey Morris Tract Viewing Platform design and construction
- Kiosk, interpretive signs, gates and parking improvements



PHASE I REFITTING OF THE DNREC ENVIRONMENTAL LABORATORY - \$902K



- ELS operates a full-service environmental lab benefitting both citizens and natural resources.
- Renovated and occupied in 1983, a full re-capitalization of this 31 year old facility would significantly increase operational efficiencies.

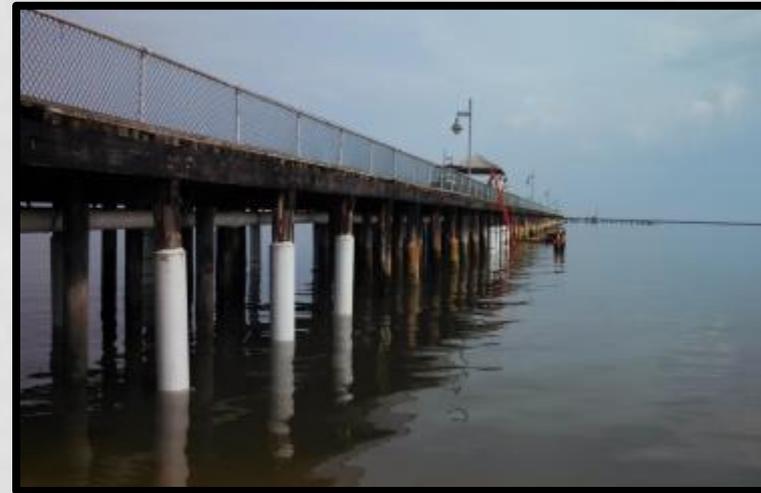
- Proposed plan optimizes square footage allowing for smaller lab footprint, more natural lighting, improved safety, and repurposed space for other uses.
- Construction phasing has been modeled to allow for modest interruption.

OTHER KEY INVESTMENTS



Cape Pier Design - \$1 M

- Closed in October 2014 due to structural integrity.
- All-wooden pier was built during World War II by the US Army.
- Several rehabilitative efforts have been undertaken **since 2007 as short-term fixes, including repairs completed in 2015.**
- Largest and most popular recreational pier in the region
- \$1M requested would provide for site investigation, design and engineering of a new pier.



LICENSING AND REGISTRATION TECHNOLOGY/APPLICATION DEVELOPMENT - \$3M

Fish & Wildlife Online Licensing System

- Current application over 10 years old.
- Manages 350,000 licenses/permits and all sales revenue for over \$9.6M in annual federal support.
- Current system resides on multiple platforms built up over years with web frontends added as each group came online.
- Requires costly upgrades to meet state and industry standards (Server 2003) without enhanced functionality.
- Replacement solution will standardize the platform, increase supportability from an administration and cost stance



- Allows agency to comply with:
 - Interstate Wildlife Violator Compact (IWVC)
 - USFWS, NMF, and USCG reporting
 - DE Criminal Justice Information System (DELJIS)
 - DHSS Child Support-Revocation/Suspension Program



OTHER KEY INVESTMENTS

➤ Fort Miles - \$500K



➤ Holts Landing Improvements - \$250K



OTHER KEY INVESTMENTS

➤ Little Creek Boat Ramp - \$250K



➤ Dobbinsville (New Castle) Fishing Pier - \$250K



QUALIFIED, DEDICATED STAFF



DNREC VOLUNTEERS





DELAWARE'S GOOD NATURE DEPENDS ON YOU!