Hurricane Sandy Disaster Relief Assistance Grant for Historic Properties

Action Plan Narrative for the Preservation, Stabilization, Rehabilitation, and Repair of Historic Properties



Photo Caption: Monmouth Beach, December 11, 2012

Public Law 113-2

December 20, 2013



Table of Contents

Introduction	3
I. Summary of Damage	3
II. Review of Known Impacts	4
a. Details of Damage to Cultural Resources	5
1. Damage Assessment and Reporting	5
2. GIS Analysis	8
3. FEMA Windshield Survey	9
b. Summary of Impact to Existing HPO Programs and Projects	10
III. Summary of Program Implementation	11
a. Subgrant Recovery Assistance	12
b. Technical Assistance	14
c. Staffing, Streamlining and Agency Coordination	15
d. Timeline	16
IV. Review Streamlining and Agency Coordination	19
Attachment 1: Map of Sandy Inundation Areas	21
Attachment 2: Reporting of Sandy Related Damage	25
Attachment 3: Damage Comparison Summary	35

Introduction

On October 29, 2012 Hurricane Sandy made landfall near Brigantine, New Jersey as a Category 2 Post-tropical Cyclone with Hurricane Force. The storm, which had been paralleling the East Coast, turned inland and crossed the midsection of New Jersey before resuming a northeasterly course. The storm surge was as much as 13 feet high and swept entirely across New Jersey's barrier islands. While the most severe storm impact was northeast of the hurricane's eye, storm surge inundated and severely affected regions of the state's shore from Cape May to Raritan Bay, and many areas along the Hudson River causing extensive flooding in urban areas. The storm damaged almost every historic property type in the state.

Hurricane Sandy caused unprecedented damage to New Jersey's housing, business, infrastructure, health and social services, the environment, and historic properties. President Obama's October 30 disaster declaration designated all twentyone New Jersey counties major disaster areas.

I. Summary of Damage

New Jersey's cultural resources were significantly impacted by Hurricane Sandy in a variety of ways, and across all areas of the state. The Historic Preservation Office (HPO) has relied heavily on both programmatic and anecdotal information to make preliminary assessments of the scope and breadth of damage, which we continue to record as new information is revealed through HPO's various programs. Damage to historic resources ranged from direct losses from the storm – houses swept into the bay, extensive flood damage or wind damage, and in some cases, subsequent loss from fires caused by damaged energy infrastructure – to more indirect damage caused by associated recovery and remediation activities.



Photo Caption: Mantoloking - April 9, 2013

Waves damaged and destroyed houses and left archaeological sites exposed to the elements. High winds caused extensive damage across the state. Many trees planted by the Civilian Conservation Corps were lost; historic landscapes were compromised. Flooding, however, was the most common cause of damage, and a map of the area covered by the storm surge is provided as Attachment 1.

Homeowners throughout New Jersey were significantly affected by Hurricane Sandy. Residences of 59,971 homeowners sustained some amount of physical damage. Of this number, 40,466 homes sustained severe or major damage.

II. Review of Known Impacts

Assessment of both storm damage and the impact of repair and recovery activities on historic properties is ongoing. However, our efforts to assemble information about damage to historic properties began in the immediate aftermath of the storm. The HPO solicited and collected anecdotal information about damage to historic properties owned by individuals, non-profits, and local governments throughout the state through our website and other electronic media; a spreadsheet listing the reported damage is provided as Attachment 2. Programmatically, as FEMA storm impact data and imagery became available, HPO analyzed cultural resources data in a Geographic Information System (GIS) to assess impacts. Finally, working with FEMA, HPO staff also spent substantial time doing field survey and assessment of above ground resources, primarily in the areas that flooded. Lastly, information about impacts to archaeological sites has been obtained through FEMA's Wet Debris Removal program where there have been extensive efforts to identify and avoid marine/maritime archaeological resources.

a. Details of Damage to Cultural Resources



1. Damage Assessment and Reporting

Photo Caption: Union Beach - December 2, 2012

Within hours of the storm, HPO began receiving reports of damage to cultural resources from constituents, property owners, agency contacts and the media. HPO compiled these reports into a running document to better understand of the types, geographic scope, and likely responses to the wide variety of impacts.

Inundation & Erosion: Most inundation damage was concentrated along the Atlantic coastline; however, the Delaware Bay, Raritan Bay, Barnegat Bay, and Hudson River shores also suffered extensive and catastrophic damage. The level of damage spanned the spectrum from immediately and obviously catastrophic to substantial interior damage which will result in gutting or demolition. The Mantoloking Historic District, an informal shingle-style community on the barrier island, and the Mantoloking Marine Historic District were ravaged by the tidal surge; every building had some type of damage. New inlets opened by the storm (since closed) swept houses into the bay, where they were filmed floating down to the inlet and out to sea by the video cameras under the Route 35 bridge. Tuckerton Seaport was extensively damaged. The CLG Communities of Beach Haven, Middletown, Somers Point and Ocean City are still painstakingly recovering from the flooding.



Photo Caption: Mantoloking - April 9, 2013

The storm surge moved a vast amount of sand. Of concern is the small number of documented archaeological sites associated with Native American settlements within areas that have sustained substantial coastal erosion and are situated in areas subject to high energy storm surge flows. Archaeological sites, such as the prehistoric site at the East Point Lighthouse on the Delaware Bay shore, were exposed after the loss of beach sand, and are in danger of eroding into the bay. The status of other sites, like the Kimble's Beach Site (28-Cm-36), are currently unknown. Some shipwrecks were exposed and/or washed ashore by the storm, and were quickly reburied by the Nor'easter that hit the coast the week after Hurricane Sandy. Other shipwrecks, such as a Civil War era barge, were moved further upstream by the storm surge. The dike that protects the Abel Nicholson house, a National Historic Landmark, was damaged exposing the house to potential future damage.

<u>Wind:</u> Wind damage resulted in both direct and indirect effects to historic properties. While wind damage was more often limited to siding, roofing, windows, chimneys, and landscaping, there were a few losses of historic properties. For example, the hay barn at the National Register listed Vought Farmstead in Hunterdon County was completely destroyed by the wind. There are many reports of indirect wind damage in the form of tree falls. In some cases, these tree falls exacerbated that of the direct wind damage by further impacting roofs and porches, circulation patterns, fencing, etc. In other cases, tree falls were particularly damaging to cemeteries -crushing grave markers and causing disturbance to graves through the uplift of the tree root ball.

<u>Fire damage</u>: Broken gas lines and electrical surges resulted in fires. The Camp Osborne Historic District, a collection of tightly packed cottages at the beach, was destroyed by the storm surge and the following fire, and is no longer eligible for listing on the National Register.



Photo Caption: Brick Township, Camp Osborne Historic District - 2012

2. GIS Analysis

Using HPO's Geographic Information System (GIS)¹ as a preliminary indicator has provided an aggregate context for the disaster, but does not provide detail about individual resource impacts that may be required in order to fully address the needs for recovery. The data used was the most current available, including the most recent version of HPO's Cultural Resources GIS (CRGIS) layers, FEMA disaster data (storm surge, damage points, imagery, etc.), and other environmental layers hosted by the NJ Department of Environmental Protection (NJDEP). At the broadest level, analysis demonstrates that 13,914 individual cultural resources (16% of 87,816 mapped resources statewide) and 213 historic districts (25% of 869 mapped districts statewide)

¹ HPO is in communication with NPS staff regarding the NPS CRGIS Guidelines, and eagerly anticipates release of external data standards from the NPS. HPO currently uses the data standards established by the NJ Department of Environmental Protection

were within or immediately adjacent to the surge zone as depicted in FEMA's storm surge data².

HPO compared the CRGIS data to a FEMA damage analysis dataset³ that evaluated damage on a structure by structure basis. This data does not provide 100% coverage of the affected area, but for the areas represented, reveals that 8,421 architectural resources (10% of the 82,565 damage points statewide) were impacted at varying levels ranging from 'Affected' to 'Destroyed'. While cultural resources represent an average of 10% of the statewide totals in the first three categories (affected, minor, and major), cultural resources took the brunt of the storms destructive impact, representing a full 33% of the statewide total of destroyed resources.

Geographically, Ocean, Hudson and Cape May Counties contain the largest percentages of impacted cultural resources (45%, 28% and 16% respectively) with Monmouth and Atlantic suffering much lower rates of impact (5% and 2% respectively), and remaining counties at 1% or less. The full breakdown by county is provided in Attachment 3.

3. FEMA Windshield Survey

Working closely with FEMA, HPO staff invested significant time since the storm conducting windshield survey in affected areas. The joint HPO/FEMA team performed damage and historic property/no property survey of 93 square miles, compiling over 4,500 images in over 1300 miles of travel across New Jersey. The survey methodology began with background research and review of existing documentation for each municipality to determine known and expected property types. Field visits consisted of a street-by-street windshield survey delineating areas with low potential for historic properties, areas where more information would be required, highlighting locations of significant damage. Post field work included mapping survey routes and photo locations, recording the delineated areas in GIS, and consultation between

² Final High Resolution Surge Area - Field-Verified February 14, 2013 < <u>http://fema-</u> services2.esri.com/arcgis/rest/services/2012_Sandy/SurgeBoundaries_Final_0214/MapServer/2 >

³*ImageCat_NLT_damage_analysis: IPDA_point_result_v28_20121204_1630EST* < <u>http://fema-</u> services.esri.com/arcgis/rest/services/2012_Sandy/ImageCat_NLT_damage_analysis/MapServer/0

FEMA and HPO to ratify the survey findings. The resulting datasets will guide continued consultation and future recovery activities by FEMA, HPO and other agencies.



Photo Caption: Mantoloking - April 11, 2013

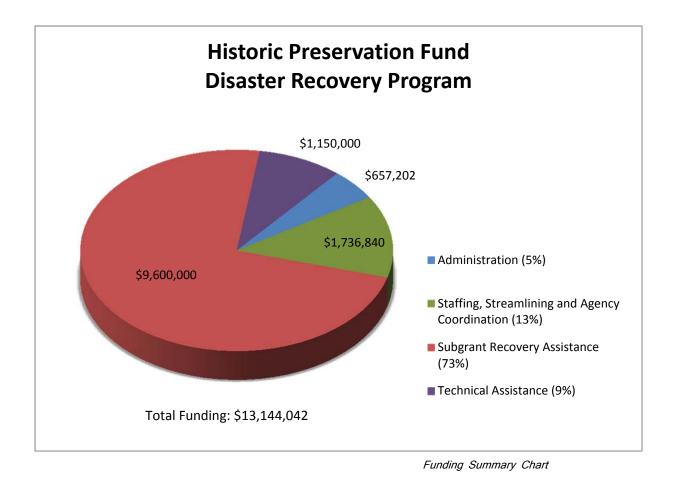
b. Summary of Impact to Existing HPO Programs and Projects

The storm has had a profound impact on HPO programs and projects. Staff across HPO program areas have assumed a more integral role in New Jersey's disaster recovery. Almost all of the HPO professional staff have been in the field with historic preservation staff at FEMA to conduct joint windshield surveys of some of the hardest hit communities in the surge zone. Staff archaeologists have spent large amounts of time consulting with the Army Corps of Engineers, FEMA, and NJDEP about ways to avoid or minimize potential impacts to submerged resources that may be caused by the removal of debris and sediment deposited by the storm from New Jersey's waterways. HPO has continued to process National Register nominations and the Certified Local Government program maintains the subgrant process, but both have shifted the focus of their work efforts from program development to providing technical assistance and outreach to those communities who were hardest hit by the storm.

The net result of this workload shift has been a reduction in priority for projects that do not involve Hurricane Sandy recovery. HPO has increased our reliance on FCC's e-106 system to provide wireless carriers with automatic concurrence responses to their requests for Section 106 consultation. HPO has also deferred analysis of and subsequent improvements to the existing workflow of the National Register and Certified Local Government programs. HPO has completed our Comprehensive Statewide Historic Preservation Plan, but efforts to complete the goals of the Plan are moving forward at a slow pace. We have mitigation funding of approximately \$500,000 set aside for a variety of context development and survey and identification efforts; however, the use of those funds is on hold while we focus on Hurricane Sandy recovery. Drew University is ending its Certificate in Historic Preservation Program, leaving a gap in opportunities for Historic Preservation Commission Members in New Jersey to get training. Due to the time HPO must spend on storm recovery, we are currently unable to help fill that training gap.

III. Summary of Program Implementation

HPO will undertake a three pronged approach to use the funds most effectively. In partnership with the NJHT we will implement a substantial grant program to fund repair of storm damage available to public, non-profit, and private owners. We are developing a series of technical assistance initiatives to: guide property owners and managers; resolve confusion about how to repair storm damage to historic properties; and to assist federal agencies in getting the data they need to complete reviews expeditiously. Finally, we will hire staff and procure the equipment necessary to support the grant and technical assistance programs and assist in expediting the federal project reviews necessary to keep the recovery moving.



a. Subgrant Recovery Assistance

HPO will partner with the New Jersey Historic Trust (NJHT)⁴ to establish a Cultural Resource Recovery Assistance Grant program. A Memorandum of Understanding detailing the partnership between the two departments will be jointly developed and executed. HPO/NJHT intend to use an online grants management solution to streamline the development of application and guidance materials, enable online application submittal, and streamline collaborative application review and award decisions. We will make the application form, ranking criteria available to the NPS for their review and comment before the system goes live.⁵ We anticipate holding at

⁴ The NJHT is a sister agency in the Department of Community Affairs which has been responsible for the state's historic preservation bricks & mortar grants program since 1990.

⁵ The MOU outlining the partnership, subgrant agreement boilerplate, and preservation easement/covenant will also be circulated to the NPS when available.

least two grant rounds. Project signs will be printed by the state and distributed to the grant recipients.

<u>Subgrant Outreach</u>: The HPO has made site visits to impacted municipalities, and contacted local preservation organizations including all the affected Certified Local Governments. Using the damage assessment data and tools referenced above, HPO/NJHT intend to target impacted cultural resource owners and managers, as well as publicize the program with mass email, and website advertisements. We anticipate that our Governor will formally announce the program, which will garner local and regional press coverage. To both publicize the program and answer the anticipated questions about the program, we will hold at least three regional information sessions: one in the north, one in the south, and one in central New Jersey.

<u>Project Review:</u> We will develop scoring criteria including those listed in the program guidance outlined in the Program Approach Statement: historic significance, ability to complete the project promptly and successfully, ability to correct storm damage, degree and nature of damage, and completeness and accuracy of the application. Once the applications are received, grant program staff will review the applications for completeness and rank and score the applications.

<u>**Project Monitoring:**</u> NJHT will use staff (see below) dedicated to assist and guide grant recipients through their recovery projects to help ensure successful completion and proper reimbursement and enable future covenant monitoring. Field visits by NJHT staff for outreach, construction meetings, final inspections, and covenantmonitoring are anticipated. The NJHT will provide quarterly reports on project progress to the HPO to facilitate timely and accurate reporting to the NPS.

<u>Financial Controls</u>: The NJHT already has a grant manager on staff to ensure that this program complies with the state's and the HPF Grant Manual guidelines. Grantees must submit invoices and proof of payment prior to HPO/NJHT reimbursement. All sub-grant awards will be tracked in the state's Comprehensive Financial System.

<u>Predicted Difficulties:</u> As properties that are eligible for listing are eligible for grants, we expect the evaluation of the eligibility for those properties not already listed or

evaluated prior to grant selection will create a heavy workload early in the grant process. The grant program selection process will be challenging given the range of eligible applicants. New Jersey's public contracts statutes, rules and policies will add to the challenges.

Although the HPO believes that private property owners have the greatest need for funding, this potential applicant group is unfamiliar to the office. HPO has not provided funding to private property owners since the 1980s, and the NJHT has never funded private individuals or business owners, so funding construction projects will require revising existing grant agreement templates. We anticipate substantially more guidance will be needed for many private property owners unfamiliar with grant application processes, the Secretary of the Interior's Standards, significant capital improvement projects, and preservation easement restrictions.

b. Technical Assistance

The unprecedentedly wide extent of storm damage created both shock and confusion about how to proceed with recovery. The confusion has been compounded by FEMA's issuance of higher Advisory Base Flood Elevations for houses shortly after the storm, and changes to the National Flood Insurance Program resulting from the Biggert-Waters Flood Insurance Reform Act of 2012. Flood insurance for all properties—now including historic ones—will rise to market rates. The result of these two changes is that while the National Flood Insurance Program allows historic properties to remain at pre-storm elevations (even if they are substantially damaged), the rapidly rising insurance rates are driving many owners to elevate their historic buildings, sometimes to substantial heights of 8 feet or more above their historic elevation, with impacts on both individual historic properties and districts.

As part of the program of technical assistance, the HPO will develop a suite of tools to assist communities and individual homeowners in understanding the impact of elevation on individual buildings and historic districts and include consideration of site planning issues. These tools will include elevation design guidelines, an effort which will be coordinated with other similar efforts. We also plan to develop visualization tools to help individuals and communities understand what their building(s) and historic districts would look like after elevation, and research into the true cost implications of

elevation decisions on insurance and other economic factors. We plan to fund outreach and workshops on elevation and storm resiliency, working with Preservation New Jersey, which is already in the field with funding from the National Trust for Historic Preservation.

We plan to assist federal and state agencies in expediting reviews through completion of an archaeological data consolidation effort that is already underway, through improvements to make digital project submission more practical, and through the development of a marine archaeological context.

c. Staffing, Streamlining and Agency Coordination

The influx of federal funding for Hurricane Sandy recovery in New Jersey will greatly increase the number of Section 106 consultation requests received annually. While the HPO has worked with FEMA, HUD, the Advisory Council on Historic Preservation, and Federally-recognized Tribes to develop and execute a Programmatic Agreement that streamlines the Section 106 consultation process for Hurricane Sandy projects, the HPO still anticipates that our workload will increase by 130% over the next three years. To address the immediate need for staffing, we are adding four hourly employees to the HPO staff. These hourly employees will meet the Professional Qualification Standards in architectural history, history, and archeology, and will be responsible for completing Section 106 reviews of Hurricane Sandy recovery projects.

Since hourly employees are limited to working 900 hours within a state fiscal year, we are proposing to hire five additional full-time employees either for limited term appointments or on a contract basis through the state's Request for Qualifications process. These additional full time employees will consist of two architectural historians, one archaeologist, one GIS specialist, and one clerical staff. This additional staff will allow current HPO staff to focus on our existing workload while managing the larger studies we will complete with HPF-DR funding.

In order to administer the HPF-DR grant program, the NJHT will need to hire five additional staff. This additional staff will be hired either for limited term appointments either on a contract basis and/or via a temporary staffing solution. These additional staff will consist of four historic preservation professionals, all of whom will meet or exceed the National Park Service's Professional Qualifications Standards in architectural history, historic architecture, or archaeology, and one clerical staff person.

Program Area	Actions
December 2013	January 2014 (Months 1-2)
Administration	Finalize action plan and submit to NPS
	Finalize Grants.gov application and process through DEP Federal
	Grants process
	December 31: Submit Interim Progress Report (Action Plan) to NPS
Staffing	Finalize staffing plan
	Initiate procurement process for staffing
Survey and	Continue compiling FEMA / CDBG damage and application data
Assessment	Continue updating damaged property list
Sub-grants	 Finalize Interagency MOU with NJHT to implement subgrant
	program
	Establish sub-grant requirements and determine applicability of state
	procurement issues and federal reporting for individuals vs.
	organizations (i.e. prevailing wage, FFATA, etc.)
	Develop grant application
	Prepare grants marketing plan
	Researching Grants Administration software solutions and initiate
	procurement
	Prepare public notice announcements and program information
	documents
	Schedule and plan public information meetings
Technical	 Identify Treasury rules and procurement thresholds
Assistance	Finalize technical assistance project list
Projects	Draft the RFP for design guidelines
	Initiate IT discussion
-	arch 2014 (Months 3-4)
Administration	Receive funding from NPS
	March 31: Submit Interim Progress Report to NPS
	Finalize public information meeting agenda
Staffing	Finalize workstations / infrastructure for temporary staffing

d. Timeline

Survey and	 Develop priority areas for additional survey and damage
Assessment	assessment based on windshield survey and FEMA / CDGB
	damage and application data
Sub-grants	Announce Hurricane Sandy Disaster Relief Assistance Grant
	Program to the public.
	Finalize Grants Administration software set up
	Distribute online program guidance documents and application
	materials via Grants Administration Software
	Conduct public information meetings
Technical	 Initiate procurement for design guidelines
Assistance	
Projects	
April 2014 (Mor	1th 5)
Administration	 Set up grant evaluation panel meetings
	Assess information session needs
Staffing	Select Staffing
	Initiate training for temporary staff
Survey and	Conduct survey, as needed
Assessment	
Sub-grants	 April 15: 1st Round Application Deadline
	Initiate 1 st Round selection process
Technical	Continue project procurement process
Assistance	
Projects	
May 2014 - Jur	ne 2014 (Month 6-7)
Administration	June 31: Submit Interim Progress Report to NPS
Staffing	Prepare staff for project administration
Survey and	Conduct survey, as needed
Assessment	
Sub-grants	• Finalize 1 st Round selection.
	• Issue 1 st Round Award letters and grant agreement documents
	June 15 2 nd Round Application Deadline
	Initiate 2 nd Round selection process
Technical	 Identify grant properties to be nominated to the National Register
Assistance	
Projects	
	gust 2014 (Month 8-9)
Sub-grants	 Finalize 1st Round grant agreements

	 Coordinate Grantee Kick-Off meetings (format/locations TBD)
	 Begin 1st Round grant management
	• Finalize 2 nd Round selection.
	 Issue 2nd Round Award letters and grant agreement documents
	 Evaluate need for 3rd Round
Technical	Select project contractors and finalize project schedules
Assistance	 Assign project managers and establish monitoring program
Projects	 Identify grant properties to be nominated to the National Register
September 20	14 - November 2014 (Month 10-11)
Administration	September 30: Submit Interim Progress Report to NPS
Sub-grants	Continue 1 st Round grant management
	Finalize 2 st Round grant agreements
	Coordinate Grantee Kick-Off meetings (format/locations TBD)
	 Begin 2nd Round grant management
	Prioritize sub-grantee NR Nominations and initiate procurement
	Initiate sub-grantee covenant recording
Technical	Continue project management
Assistance	Identify grant properties to be nominated to the National Register
Projects	
December 2014	(Month 12)
Administration	December 31: Submit Interim Progress Report to NPS
Sub-grants	Continue 1 st Round grant management
	Continue 2 nd Round grant management
Technical	Continue project management
Assistance	
Projects	

January 2015 - September 2015

- Continue grant management
- Continue and finalize sub-grantee covenant recording
- Continue processing sub-grantee NR nominations
- Continue project management
- Closeout completed projects and issue final payments to contractors

December 2015

• All projects completed

January 2016 - December 2033

• Covenant monitoring

IV. Review Streamlining and Agency Coordination

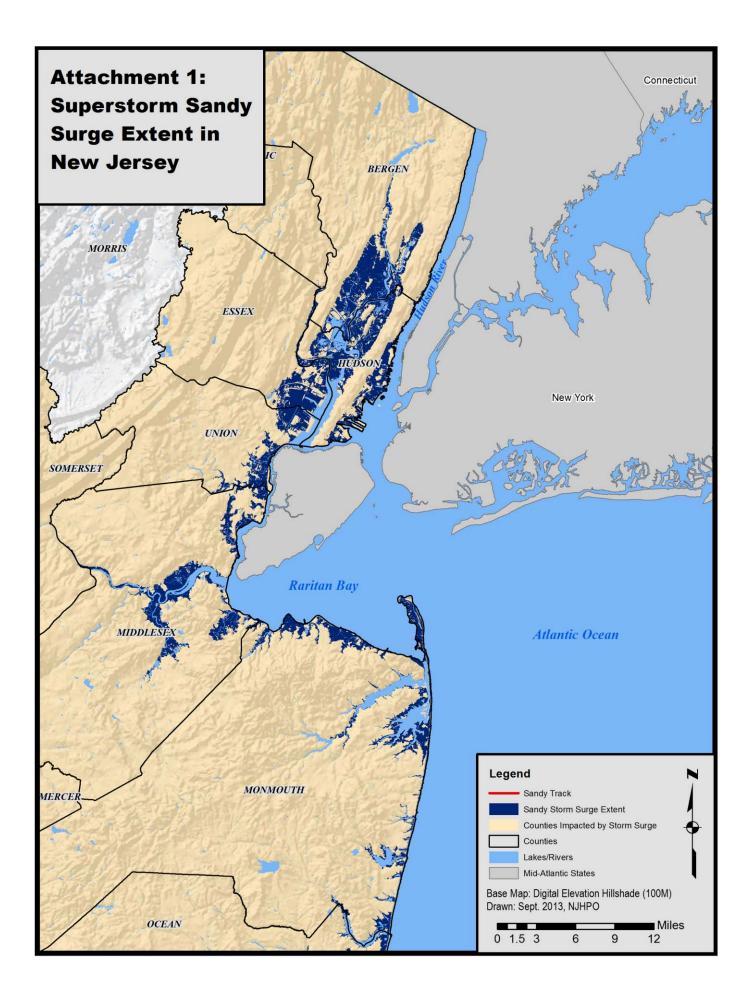
Coordination with other federal, state and local recovery agencies is central to implementing Section 106 for storm damaged projects. HPO has had close connections with the NJ Office of Emergency Management (NJOEM) and FEMA staff since the storm. HPO has also worked with the Army Corps of Engineers on emergency permitting necessary for dune reconstruction and construction and wet debris/storm sediment removal. HPO has been substantively involved in setting up the Environmental and Historic Preservation reviews for funding through the U.S. Housing and Urban Development (HUD) CDBG-DR program.

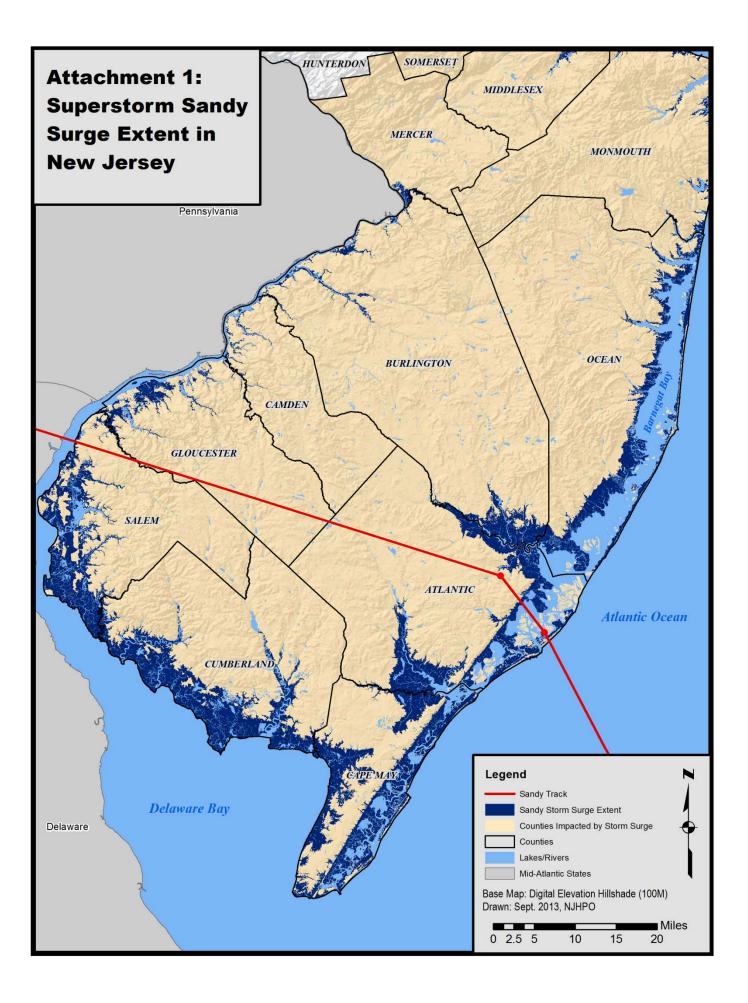
The Advisory Council on Historic Preservation, HPO, HUD, FEMA, and the Native American Tribes have signed on to a Programmatic Agreement (PA) which streamlines the Section 106 review process for storm recovery. The PA and underlying policy and forms are set up to allow the Section 106 review performed for a FEMA funded project to suffice for a HUD funded project and vice versa, reducing duplication of effort.

The joint HPO/FEMA windshield survey was intended to identify areas with potential to contain historic properties, and those with no potential for historic properties. The results are useful in concentrating where survey is necessary, and where no further survey is needed. The results of the survey have been incorporated into the PA; as a result, architectural review is complete for a substantial percentage of storm recovery projects.

Pre-storm, New Jersey's archaeological data was spread out over multiple agencies, with no one set of maps showing all sites or surveyed areas. We are in the process of working with FEMA and Army Corps at the federal level, and the State Museum and the Pinelands Commission at the State level, to combine that data to expedite storm recovery activities.

Attachment 1: Map of Sandy Inundation Areas





Attachment 2: Reporting of Sandy Related Damage

County	Muni	Property Name	Property Address	Damage Cat.	Damage Des.	Date Reported
Atlantic	Atlantic City	Boardwalk		DAMAGE AND INUNDATION, Destroyed	Non-commercial portions of the Boardwalk destroyed	
Atlantic	Atlantic City	Scales Grill & Deck	Gardners Basin	DAMAGE AND INUNDATION, Destroyed	total loss	
Atlantic	Egg Harbor	Studebaker Showroom	North West Corner Verona and Toulon avenues	UNDAMAGED	no damage from Sandy, however, a temporary construction office on site was damaged (damage unspecified)	11-27-12
Atlantic	Somers Point	Bay Front Historic Distric		DAMAGE AND INUNDATION, Major		
Atlantic	Somers Point	Somers Point-Longport Causeway	Route 152?	DAMAGE AND	road washed away	11-4-12
Bergen	Alpine	Blackledge Kearney house	Alpine Landing	INUNDATION. Maior DAMAGE ONLY, Major	extensive damage to the stone walls, near collapse of the house / FROM CLIFFNOTES newsletter: 4ft of water in the building; Second floor and attic stayed dry; temporarily stabilized by parks forces; lots of debris collected between the Kearney house and the pavilion (They had 16 inches of water inundation during Irene, and almost 2 ft during 1991's perfect storm)	11-14-12
Bergen	Alpine	Fort Lee Historic Park	Palisades Interstate Park • NJ Section	DAMAGE ONLY, Minor	Visitors Center ok, some trees down in the park and on the paths.	11-14-12
Bergen	Alpine Borough	Blackledge-Kearny House	Alpine Landing	DAMAGE ONLY, Unknown	Extensive damage to stone walls, near collapse of house as of 11-20-12 Front foundation wall collapsed but not at corners; Temporary beam installed 10 ft surge	11-20-12
Bergen	Edgewater Borough	Ferryboat "Binghamton"	725 River Road / Hudson Riverbank	UNDAMAGED	damage not due to Hurricane Sandy	11-8-12
Bergen	Little Ferry Borough	Gethsemane Cemetery	360-370 Liberty Street	DAMAGE ONLY, Unknown	Four trees came down, one especially large one	
Bergen	Maywood	Romeyn-Oldis-Brinkerhoff House [Romine Van Voorhis House]	306 Maywood Ave (located adjacent to the Maywood Railroad Station)	DAMAGE ONLY, Minor	A tree fell on the house, but it has been removed. According to Carol the damage does not appear to be too extensive	11-19-12
Bergen	Maywood Borough	Dutch Stone House		DAMAGE ONLY, Unknown	House hit by tree	
Bergen	Maywood Borough	Maywood Railroad Station	269 or 271 Maywood Avenue	DAMAGE ONLY, Major	Large tree limb through roof that breached interior ceiling. Museum contents undamaged. Estimated cost \$3200.00	
Bergen	Oradell	Hackensack Waterworks [New Milford Plant of the Hackensack Water Company]	Van Buskirk Island	UNDAMAGED	not flooded - chimney repairs interrupted	11-8-12
Bergen	Park Ridge Borough	Wortendyke Barn	13 Pascack Road	DAMAGE ONLY, Unknown	Some damage, unquantified	
Bergen	Ridgewood Village	Schoolhouse Museum	650 E Glen Avenue	DAMAGE ONLY, Unknown	A tree fell on the side of the museum ripping the wires off the side of the building and breaking some of the trim and clapboard. The historic marker sign was dislodged and needs to be reset in cement and we lost the flag pole. My first estimate to remove the tree is \$2700. I am waiting for another estimate and an estimate for the repair. I also need to have an electrician in to repair the split and dislodged wires. I expect it will be at a cost if \$4000+ at the least.	
Bergen	River Edge Borough	Steuben House	1209 Main Street	INUNDATION ONLY, Unknown	24 inches of water in front rooms on Monday night	
Bergen	Rutherford	BPO Elks Building	48 Ames Avenue	DAMAGE ONLY, Minor	damage to elk statue over roof - estimate \$2800	11-7-12
Bergen	Rutherford	Lillian Russell Moore House	5 Courier Place	UNDAMAGED		11-7-12
Bergen	Rutherford	Newick/Tripp House	77 Woodward Avenue	DAMAGE ONLY, Minor	wind damage to three sections of siding - estimage \$1500	11-7-12
Bergen	Rutherford	Rutherford Boat Club / Yacht Club / Chris- Craft / Nereid Boad Club:	350 Riverside Avenue	DAMAGE AND INUNDATION, Minor	contributing to Rutherford Downtown District; water damage first floor - estimage \$30,000	11-7-12

County	Muni	Property Name	Property Address	Damage Cat.	Damage Des.	Date Reported
Bergen	Rutherford	Rutherford Borough Hall	176 Park Avenue	DAMAGE ONLY, Major	tree struck building - \$30,000 damage - contributing to Rutherford Downtown District	
Bergen	Rutherford	S.Key House/Diffily Funeral Home / Collins House	41 Ames Aveune	DAMAGE ONLY, Minor	damage to roof - estimate \$5,000	11-7-12
Bergen	Rutherford	Varrelmann's Bake Shop	60 Park Avenue	DAMAGE ONLY, Unknown	broken windows, wind damage / business closed since storm - contributing to Rutherford Downtown District	11-7-12
Camden	Camden City	USS New Jersey	62 Battleship Place	DAMAGE ONLY, Unknown	Minor damage to awnings and tents	
Cape May	Cape May City	429 Beach Avenue	Cape May Historic District - Beach Avenue	DAMAGE ONLY, Minor	roof damage	
Cape May	Lower Township	Cold Spring Village		INUNDATION ONLY, Unknown	Flooded	
Cape May	Lower Township	Naval Air Station Wildwood		DAMAGE ONLY, Minor	15-20 broken windows	
Саре Мау	Ocean City	Ocean City Residential Historic District		DAMAGE AND INUNDATION, Minor	MK reported 18 inches of flood water in her house	11-20-12
Cape May	Ocean City	U.S. Life-Saving Station	Fourth Street and Atlantic Avenue	UNDAMAGED	no damage	11-16-12
Cape May	Wildwood Crest Borough	Caribbean Motel	5600 Ocean Avenue	DAMAGE ONLY, Affected	Minor roof damage	
Cumberland	Commercial Township	Bivalve Oyster Packing Hosues & Docks	Shell Road	INUNDATION ONLY, Unknown	Damage to docks. AJ Meerwald OK	
Cumberland	Lawrence Twp		reports of 4 -12 houses washed into the Delaware Bay	DAMAGE AND INUNDATION, Destroyed		
Essex	Belleville	Reformed Dutch Church of the Second River	171 Main Street		Steeple damaged by Sandy winds > Cross that sits on top of spire about 130 feet in air 2-inch iron rod that was vertical is now horizontal	11-9-12
Essex	Newark City	Newark City Subway		INUNDATION ONLY, Unknown	Flooding in Newark Penn Station as well as major debris damage between Newark Penn and Branch Brook Stations	
Hudson	Bayonne	First Assembly of God Church	100 East 22nd Street		Sandy's storm surge washed through the church with such force that water coursing through the crawl spaces beneath the building burst through the first-floor flooring in several areas, Kelly said. The church's first floor was filled with 2 feet of water, oil and kerosene that destroyed walls, carpeting, wiring, computers, the sound system and anything else it reached.	4-3-13
Hudson	Bayonne	Robbins Reef Light Station		DAMAGE AND INUNDATION, Minor	Damaged railings, doors and windows, shifted foundation stones	2/4/13
Hudson	Hoboken City	Erie-Lackawanna Terminal	Hudson Plaza at the Bank of the Hudson River	INUNDATION ONLY, Unknown		10/29/12
Hudson	Hoboken City	Erie-Lackawanna Terminal	Hudson Plaza at the Bank of the Hudson River	INUNDATION ONLY, Unknown		11-16-12
Hudson	Jersey City	CRRNJ Terminal	Johnston Avenue	INUNDATION ONLY, Unknown	5 ft of flood water in the building, doors & windows blown off	
Hudson	Jersey City	Ellis Island		DAMAGE AND INUNDATION, Major	FROM SL: Ellis did not do well. The main museum basement is flooded, but worse is the Ferry Building. I got a few pictures from the deputy superintendent - it looks like we never did any work. The exhibit is ruined. I imagine the carpeting in the meeting room is done for. Their new offices, in the building behind the FB, was flooded, as well. Much of the stabilization work on the hospitals is lost, too FROM Janis CALLELA: The Ferry Building, exhibit and the furniture (desks, etc) used for our education programs were damaged. I do not know the extent of the damage. The priority now is getting power and heat into the Statue and the Immigration Museum as both house millions of dollars in exhibits and artifacts.	

County	Muni	Property Name	Property Address	Damage Cat.	Damage Des.	Date Reported
Hudson	Jersey City	Greenville Yard Lift Bridge [Greenville Yard Historic District]	Hudson River at Greenville Yards	DAMAGE AND INUNDATION, Destroyed	"irreparably damaged" "Because of the condition of the structure, no commitment to salvage of elements can be made" "demolition work is scheduled for tomorrow (Saturday). " "There will be an attempt to photograph and/or short video"	11-16-12
Hudson	Jersey City	Jersey City Armory	678 Montgomery Street	DAMAGE ONLY, Minor	Boiler Vent blew off during the storm	4-24-13
Hudson	Jersey City	Liberty State Park		DAMAGE AND INUNDATION, Maior		
Hudson	Jersey City	Statue of Liberty		DAMAGE AND INUNDATION, Major	The statue was not damaged by superstorm Sandy, but Liberty Island sustained significant infrastructure damage that will delay the monument's re-opening indefinitely, said Mark Litterst, a Park Service spokesman. 4 ft of floodwater.	
Hudson	Kearny Town	NJ Transit's Meadows Maintenance Complex	swampy crook where the Passaic and Hackensack rivers come together	DAMAGE AND INUNDATION, Major	62 locomotives and 261 rail cars were damaged. That amounts to 24 percent of the fleetThe water was as deep as five feet in some of the complex's maintenance areas, Weinstein said. Out in the yard, it was deep enough to submerge automobiles. Salt water rose above the wheel wells of the locomotives and rail cars, engulfing brakes, electrical systems, heating and air- conditioning units, batteries and traction motors that help power the cars and soaking insulation panels and seat cushionsShould NJ Transit's costs be similar, they would face a repair bill of more than \$32 million.	
Hunterdon	Clinton	Clinton Historical Museum	56 Main Street	DAMAGE ONLY, Minor	The Red Mill Museum Village has significant damage to its Administration Building. A downed tree on the property landed on power lines and pulled away the support structure attaching the lines to the	11-9-12
Hunterdon	Clinton	Vought Farmstead Hay Barn		DAMAGE ONLY, Destroyed	Administration Building totally distroyed	11-21-12
Hunterdon	Clinton Town	Red Mill	7 Center Street	DAMAGE ONLY, Unknown	A tree did clip the office and I believe caused some damage to the blacksmiths barn. We were actually lucky that we did not sustain major damage. The Red Mill Museum Village had significant damage to its Administration Building. A downed tree on the property landed on power lines and pulled away the support structure attaching the lines to the Administration Building. An electrical pole and power lines were fixed yesterday afternoon by workers from Georgia Power. Additional repairs and system checks will continue throughout the weekend and early next week.	
Hunterdon	Clinton Township	Vought House	Greyrock Road	DAMAGE ONLY, Affected	Barn collapsed. House fine.	
Hunterdon	Union Twp	Chew-Turner-Carhart Farm	Van Syckles Corner Road south of Henderson Road	DAMAGE ONLY, Minor	A tree had fallen and damaged the horse barn roof located next to 117 Van Syckles Rd	3/18/13
Hunterdon	Union Twp	Van Syckle Corner Historic District	Van Syckles Corner and Norton roads _ specifically 117 Van Syckles Rd		A tree had fallen and damaged the horse barn roof located next to 117 Van Syckles Rd	3/18-13
Mercer	Hopewell	Bergen-Witcher House	204 Hopewell-Wertsville Road / Sourlands	DAMAGE ONLY, Minor	roof damage - tree fell?	
Mercer Mercer	Trenton City Trenton City	Old Barracks Roebling Museum	Barrack Street 675 South Clinton	DAMAGE ONLY, Affected DAMAGE ONLY, Minor	Minor damage to fencing Minor damage to fence and roof, covered by warranty	
		· · · · · · · · · · · · · · · · · · ·				
Mercer	Trenton City	Trenton Central High School	Chambers Street (Between Hamilton and Greenwood Avenue)		The 80-year-old school has problems with mold and asbestos, a leaking roof worsened by Hurricane Sandy, ventilation problems, floors warped by water damage and classroom ceilings that rain plaster on students and teachers	3/5/13

County	Muni	Property Name	Property Address	Damage Cat.	Damage Des.	Date Reported
Middlesex	Cranbury Township	Cranbury Historical Society	4 Park Place East (1834 by Dr. Garret P. Voorhees)	DAMAGE ONLY, Minor	Carriage House behind museum - roof & upper structure damage	11-7-12
Middlesex	Edison	Thomas A. Edison Memorial Tower	Christie Street	UNDAMAGED	(http://www.cranburyhistory.org/museum/) construction scaffolding survived the storm with no damage.	11-27-12
Middlesex	New Brunswick City	First Dutch Reformed Church	160 Neilson Street	DAMAGE ONLY, Minor	One tombstone was destroyed by a falling tree limb A storm window on the east elevation of the education building broke.The old lantern above the main entrance of the church lost two glass panes; we are in the process of having new glass panes made.	
Middlesex	Piscataway	East Jersey Olde Town Village	1050 RIVER ROAD		Our wagonhouse/grainary lost doors on the front and rear, and two of our outbuildings, a corn crib and outhouse were damaged. Massive wind apparently blew the corn crib on its side and unfortunately, the outhouse collapsed under the weight of the corn crib. http://www.co.middlesex.nj.us/culturalheritage/village. asp	11-16-12
Middlesex	Piscataway	Ivy Hall (Cornelius Low House)	1225 River Road	UNDAMAGED		11-16-12
Middlesex	Sayreville				The total number of uninhabitable houses has risen to 240 in Sayreville. Out of the 240 homes, 39 have destroyed foundations and are, for the most part, upsafe to enter	11-15-12
Middlesex	South Amboy City	Morgan Drawbridge on North Jersey Coast Line	mp 3.22 over Cheesequake Creek	DAMAGE ONLY, Unknown	Damage from boats and a trailer that collided into the bridge	
Monmouth	Highlands Borough	Romer Lighthouse	Lower New York Bay	DAMAGE AND INUNDATION, Major	for starters: caisson failure, foundation calving, crane collapse, pier foundation cracking, rip rap collapse, 1st & 2nd floor windows and doors washed through, walkway collapse, broken panes in cupola, no safe way to gain access to building; http://www.professionalstaffers.com/RS2/Romer_Shoal	4-30-13
Monmouth	Keansburg	Keansburg Amusement Park	275 Beachway Avenue	DAMAGE AND INUNDATION, Maior		11-6-12
Monmouth	Keyport Borough	Keyport Historical Society		DAMAGE ONLY, Destroyed	Building is a total loss	
Monmouth	Lincroft / Middletown	Monmouth Museum	765 Newman Springs Road	DAMAGE ONLY, Minor	lost more than \$20,000 in admissions, membership and gift shop sales, said museum media contact Julie Fiorino / had to replace a circulating pump on their heating system that burned out because of electrical power surges after the storm	1/3/13
Monmouth	Long Branch	Takanassee Beach Club [US Lifesaving Station Number 5 and Takanassee Beach Club Historic District]	Between Atlantic Ocean an the East and Lake Takanasee and Ocean Ave on the West and North Lake Dr on the North and South Lake Dr on the South	DAMAGE AND INUNDATION, Destroyed	All that remains of the building is piles of debrisUS Life Saving Station Boathouse designed by Victor Mendleheff and erected in 1903	11-13-12
Monmouth	Long Branch City	US Lifesaving Station Number 5 and Takanassee Beach Club Historic District	Boathouse	DAMAGE AND INUNDATION, Destroyed	The boathouse is totally destroyed	
Monmouth	Manasguan	Manasguan Life Saving Station				11-21-12
Monmouth	Middletown	Port Monmouth Community Church - Seaman's Church	78 Main Street and Lydia Place	DAMAGE AND INUNDATION, Major	water flowed through the church scattering everything; some exterior siding washed off revealing clapboard beneath	11-1-12
Monmouth	Middletown	Sandy Hook	between Shrewsbury River and Atlantic Ocean	DAMAGE AND INUNDATION, Maior	storm surge, piles of sand deposits, Officers Row damaged	12-4-12
Monmouth	Neptune Township	Ocean Grove Auditorium		DAMAGE ONLY, Major	A large section of the roof blown off	
Monmouth	Red Bank	Monmouth Boat Club			as of 11-20-12 flooded with about 6-7 feet of water. First story much loss.	
Monmouth	Red Bank	Shrewsbury Ice Boat and Yacht Club	next to the Monmouth Boat Club		Ice Boat club building flooded, with 3 feet of water. The ramp was torn off the building, and that the floating docks floated away. Some roof shingles were blown off the building	11-20-12

	Muni	Property Name	Property Address	Damage Cat.	Damage Des.	Date Reported
Monmouth	Sea Bright	Sea Bright Gas & Oil Company [Dunkin Donuts]	1002 Ocean Avenue		likely eligible based on recent EM committee meeting	11-28-12
Monmouth	Sea Bright	Seabright Beach Club	999 Ocean Ave	DAMAGE AND INUNDATION, Major	boardwalk wash away, buildings missing	11-16-12
Monmouth	Sea Girt Borough	Quarters One		UNDAMAGED		11-20-12
Monmouth	Seabright	Chapel Hill Swim Club [Chapel Swim Club]	1023 Ocean Ave	DAMAGE AND INUNDATION, Destroyed		11-29-12
Monmouth	Shrewsbury Borough	Christ Church, Shrewsbury	Broad St & Sycamore Ave	DAMAGE ONLY, Minor	limited damage. One of our eight 1870ish double lancet windows was hit by a flying tree branch that took out about 20 of the diamond quarries in one of the windows. We had completed a full restoration project three years ago. This damage is being assessed but I are optimized.	
Monmouth	Wall	Allaire State Park [Deserted Village of Allaire Historic District]	County Routes 549 and 524	DAMAGE ONLY, Minor	So the guys are trying to pull the branches down old school (some kind of bean bag weight attached to a rope), which takes forever, but it is what it is. So we can at least deem the village area safe to reopen on Saturday. No trails, no picnic area, no camping.	11-14-12
Monmouth	Wall	Camp Evans	2201 Marconi Road	DAMAGE ONLY, Major	Lost hundreds of roof shingles off of the H-buildings, leading to dozens more roof leaks than were previously present. The Marconi buildings and the antenna were undamaged	11-20-12
Monmouth	Wall	Camp Evans Historic District (Boundary Increase and Decrease)	Building 9013	DAMAGE AND INUNDATION, Major	The roof leaks have become serious. The hurricane has torn off sections of the south roofing shingles. A section of the interior ceiling has collapsed.	4/1/13
Monmouth	Wall Township	Camp Evans	2201 Marconi Rd	DAMAGE ONLY, Unknown	Roof damage / as of 11-20-12: Sandy blew hundreds of roof shingles off of the H-buildings, leading to dozens more roof leaks than were previously present. Otherwise the Camp Evans complex fared reasonably well. The Marconi buildings and the antenna were	11-20-12
Monmouth		Monmouth County Historical Society	all buildings administered by County	UNDAMAGED	"substantially okwhile the buildings are ok, their context has been devastated" Gail doesn't consider losing a few shutters or shingles damaged.	11-29-12
Morris	Denville	Ayres Farm House		DAMAGE ONLY, Minor	barn door damaged	11-20-12
Morris	Denville	Ayres/Knuth Farm	25 Cooper Road		due to Super Storm damage, awaiting contractor estimates for: sliding Barn door twisted off its trolley; Door repair, Trolley repair, Loose boards, blown of same barn, Glass blown out of windows; Office barn had multiple window panes blown out; Office barn had tow barn door blown off; Tenant House had a glass panes blown out; Farm house has attic leak due to	12-30-13
Morris	Gladstone	Bamboo Brook (Merchiston Farm)		DAMAGE ONLY, Minor		
Morris	Morris	Fosterfields	The Willows		tree landed on kitchen	11-20-12
Morris	Morris	Fosterfields	Sheep & Hog Pen		tree damaged fence / minor shingle damage	11-20-12
Morris	Morris Township	Morris Museum in Morris Township	6 Normandy Heights	DAMAGE ONLY, Minor	lost almost 10 percent of its operating budget because of Sandy. several large trees on museum grounds fell in the storm and had to be removed, costing the museum thousands of unbudgeted dollars	1/3/13
	Morris Township	Whippany Farm (Frelinghuysen Arboretum)	53 East Hanover Avenue		damage to shutters	11-19-12
Morris					copper top of roof blown off	11-20-12
Morris Morris	Morristown Town	Morris County Courthouse				
	Morristown Town Morristown Town	Morris County Courthouse Morris County Historical Society [Acorn Hall]	68 Morris Avenue	DAMAGE ONLY, Major	Our site is about 6 acres, half is wooded. While Acorn Hall and its Carriage House escaped a great deal of damage during Sandy, our back woodlot was completely destroyed (please see attached photos).	11-14-12

County	Muni	Property Name	Property Address	Damage Cat.	Damage Des.	Date Reported
Morris	Morristown Town	Speedwell Factory			wheelhouse damage	11-20-12
Norris	Morristown Town	Speedwell Vail House			damage to shutters	11-19-12
Morris	Morristown Town	St. Peter's Episcopal Church			protective glazing on stained glass windows broke off & basement window blew out	11-20-12
Morris	Morristown Town	Willow Hall	330 Speedwell Ave	DAMAGE ONLY, Unknown	Large tree resting on roof FROM 11-20-12: tree down on front façade; greenhouse destroyed; stone wall damage	
Morris	Morristown Town	Willow Hall	330 Speedwell Ave	DAMAGE ONLY, Major	1) Large tree fell into the building damaging the roof and peak; 2) Greenhouse was demolished and blown away; 3) The stone wall was damaged by wind knocking the large stones out ; 4) About 5 other trees have fallen on the preparty.	11-8-12
Morris	Parsippany-Troy Hills	Parsippany Presbyterian Church			fences smashed; leaking steeple	11-20-12
Morris	Parsippany-Troy Hills Township	Craftsman Farms	Route 10 & Manor Lane	DAMAGE ONLY, Affected	A dozen trees down, on ontop of the office which will require a new roof. Log House had minor damage,	
Morris	Pequannock	First Reformed Church of Pompton Plaind			cemetery fence damage	11-20-12
Morris	Rockaway Borough	First Presbyterian Church of Rockaway			spires fell off bell tower	11-20-12
Morris	Rockaway Borough	Mt. Hope Miner's Church		DAMAGE ONLY, Minor		
Morris	Roxbury	Cary	208 Emmans Road	DAMAGE ONLY, Minor	damage to brick chimney and to the end of the slate roof, displacing some slates	11-19-12
Morris	Roxbury	Ledgewood HD		DAMAGE ONLY, Minor	has trees down (including two at King house), but no identified building damage	11-19-12
<u>Morris</u> Morris	Speedwell Washington Twp	Historic Speedwell Cooper Gristmill		DAMAGE ONLY, Minor DAMAGE ONLY, Minor		
Morris	Whippany	Frelinghuysen Aboretum (Whippany		DAMAGE ONLY, Minor		
ocean	Barnegat	Farm) Cedar Bridge Tavern	200 Old Halfway Road	DAMAGE ONLY, Minor	limited wind damage on roof [http://www.co.ocean.nj.us/CulturalHeritage/Cedarbrid .ce_aspx]	11-20-12
Dcean	Bay Head Borough	All Saint's Church	500 Lake Avenue	DAMAGE AND INUNDATION, Affected	The historic wooden church, built by shipbuilders in 1889, was slammed between walls of water from the bay on one side and the ocean on the other. The water crumbled the foundation, Mr. Turton said; there is now a sinkhole in the sanctuary into which the pews are listing at a 30 degree angle. The rectory is uninhabitable; the organ and the church's records	
Ocean	Bay Head Borough	Bay Head Yacht Club	111 Metcalfe Street, Bay Head, NJ 08742	DAMAGE AND INUNDATION. Maior		12-3-12

County	Muni	Property Name	Property Address	Damage Cat.	Damage Des.	Date Reported
Ocean	Bay Head Borough & Point Pleasant Borough	Bay Head Historic District	Bound by Delaware Avenue (north), Atlantic Ocean (east), Borough boundary (south) and undefined extent west of Main Avenue	DAMAGE AND INUNDATION, Major	devastated - waiting for report	11-20-12
Ocean	Beach Haven Borough	Beach Haven Historic District	Atlantic, South Atlantic, Beach, North Beach, Engleside avenues; Amber, Centre, Coral, Pearl, Second and Third streets	DAMAGE AND INUNDATION, Major	Beach Haven Historic District - 30 of 356 buildings substantially damaged / major concern - how to raise the cottage above flood level and keep arch integrity	11-20-12
ocean	Beach Haven Borough	Bed & Breakfast district	105 Chatsworth Ave	DAMAGE AND INUNDATION, Affected	According to Property Owner, majorly damaged and needs to be demolished. According to HPC Chair, only 2 ft of water in basement	9-27-13
ocean	Brick	Beaton Boat Yard			surviving cat boats at the Beaton Boat Yard in Brick TWP/Mantoloking. All sustained some damage from Sandy and a couple are undergoing repair	
Ocean	Brick Township	Camp Osborne HD	NJ Rt 35 & ocean	DAMAGE AND INUNDATION, Destroyed	Most buildings in the district obliterated / 60 buildings destroyed	
Ocean	Dover Township	Saint Elisabeth's Chapel By The Sea	Ortley Beach, Dover Township	DAMAGE ONLY, Unknown	125 year old church. The church is marked now by nothing but a field of sand and broken pavement. The	
ocean	Lakehurst	Hanger One		UNDAMAGED		11-20-12
Ocean	Lakewood Township	Georgian Court	Lakewood Avenue	DAMAGE ONLY, Minor	Damage to monumental fence	
Ocean		Georgian Court University / Georgian Court (George Jay Gould Estate)(NHL)	Lakewood Avenue	DAMAGE ONLY, Minor	At least one brick and terra cotta pier was destroyed and perhaps two to four others that will need to be repaired or rebuilt. The intervening lengths of wrought iron fence were also damaged	11-19-12
Ocean	mantaloking				1/2 of 512 homes will need to be demolished. Only town that still doesn't have residents back	2/11/13
Ocean	Mantoloking Borough	Mantoloking HD		DAMAGE AND INUNDATION, Major	devastated (general report) FROM TIM HART: devastated - waiting for report / FROM 11-20 article "Mantoloking lost 150 ft of beach"	
Ocean	Mantoloking Borough	Mantoloking Marine HD		DAMAGE AND INUNDATION, Maior	devastated	
ocean	Point Pleasant	Johnson Brothers Boat Works		DAMAGE AND INUNDATION. Maior	severe damage Bldg. 12 > built ww2 boats for navy [http://www.nimb.org]	11-20-12
ocean	Seaside	Funtown rides and arcades			damages	11-20-12
ocean	Seaside	Seaside Bank (1920's)				11-20-12
ocean ocean	Seaside Seaside Heights	<u>Seaside Boardwalk</u> Carousel	Casino Pier	UNDAMAGED	The state's top amusement official confirmed that the colorful carousel, which was moved from the island to shore in the 1930s, is "fine," despite the storm having wiped out a quarter of the pierThe carousel is housed on the same pier as the roller coaster that was rendered a twisted metal mass, now an iconic image of the hurricane's wrath. (originally from Burlington	<u>11-20-12</u> 11-19-12
ocean	Toms River	Ocean County Historical Society Museum	26 Hadley Avenue	DAMAGE ONLY, Minor	basement flooding and roof damage over the museum's offices.	1/3/13
Ocean	Tuckerton	Tuckerton Seaport		DAMAGE AND INUNDATION, Affected	all 13 buildings were inundated but the only damage to historic structures was to the house boats.	11-19-12
ocean		Ocean Gate Boardwalk (promenade)		DAMAGE AND INUNDATION, Major	severely damaged - buckled	11-20-12
Salem	Pennsville	Three Forts Ferry	along the Delware River at Fort Mott State Park / Fort Mott Road		"the pier and docking facilities at Fort Mott sustained significant damage, leaving the ferry unable to dock at the Fort Mott pier." http://www.threeforts.com/dir.html	4-15-13

County	Muni	Property Name	Property Address	Damage Cat.	Damage Des.	Date Reported
Union	Elizabeth	First Presbyterian Church			Loss of 35 plus headstones (not covered by FEMA); Some trees down; [minor] damage to the new bell tower; Floor inside damaged by the backfire of the steam pine system.	3/11/13
Union	Elizabeth City	Old First (First Presbyterian)	Broad Street and Caldwell Place	DAMAGE ONLY, Minor	15-25 headstones damaged by falling tree limbs	
Union	Hillside Township	Evergreen Cemetery	1137 North Broad Street	DAMAGE ONLY, Minor	\$150,000 estimated from fallen trees and debris. Damage to headstones	
Union	Linden	Rosehill Cemetery		DAMAGE AND INUNDATION, Minor	The oil covered only a small, eastern section of the 1,000-acre cemetery and relatively few graves were affected. Crews are removing a couple inches of topsoil and then resodding. Phillips 66 has been cooperative and responsible.	

Attachment 3: Damage Comparison Summary

Attachment 3: FEMA DAMAGE POINTS NJCRGIS COMPARISON

	Affected	Minor	Major	Destroyed	Total	
FEMA Data	43,230	33,753	5,065	517	82,565	100%
Atlantic	7385	3563	112	2	11,062	13%
Bergen	394	1024	44	1	1,463	2%
Burlington	39	8	72	0	119	0%
Camden	146	2	0	0	148	0%
Cape May	5908	5025	147	3	11,083	13%
Cumberland	90	17	5	0	112	0%
Essex	19	4	1	0	24	0%
Gloucester	22	1	0	0	23	0%
Hudson	1672	780	1218	0	3,670	4%
Middlesex	355	55	43	2	455	1%
Monmouth	6351	3313	2045	87	11,796	14%
Ocean	20456	19874	1374	422	42,126	51%
Passaic	2	0	0	0	2	0%
Salem	281	71	0	0	352	0%
Somerset	20	1	0	0	21	0%
Union	90	15	4	0	109	0%
NJ CRIGIS	4,677	3,084	489	171	8,421	100%
Atlantic	158	22	1	0	181	2%
Bergen	1	0	2	0	3	0%
Burlington	9	7	68	0	84	1%
Camden	85	0	0	0	85	1%
Cape May	555	788	20	0	1363	16%
Cumberland	85	4	1	0	90	1%
Essex	2	0	0	0	2	0%
Gloucester	0	0	0	0	0	0%
Hudson	1517	548	282	0	2347	28%
Middlesex	10	1	1	0	12	0%
Monmouth	322	42	27	3	394	5%
Ocean	1860	1639	84	168	3751	45%
Passaic	0	0	0	0	0	0%
Salem	69	30	0	0	99	1%
Somerset	2	0	0	0	2	0%
Union	2	3	3	0	8	0%
% NJTOTAL	11%	9%	10%	33%	10%	