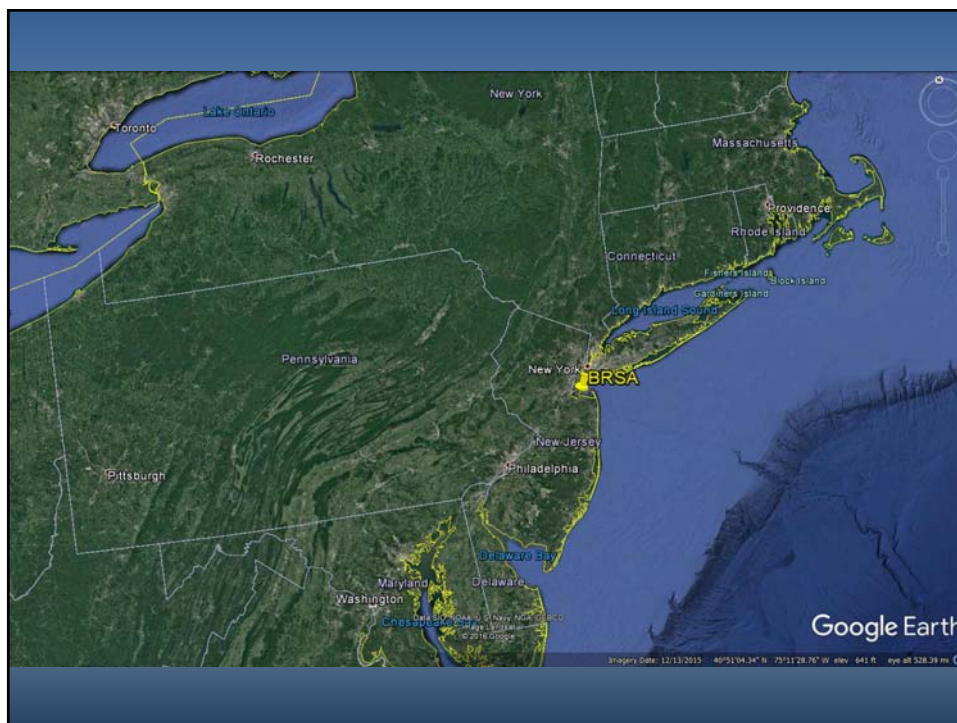
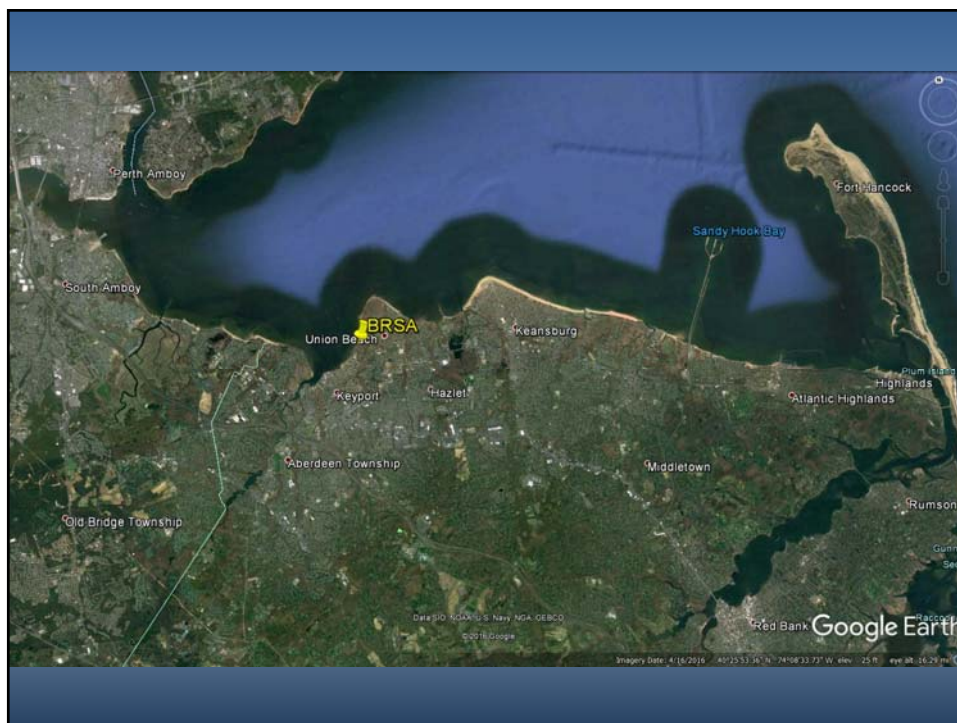
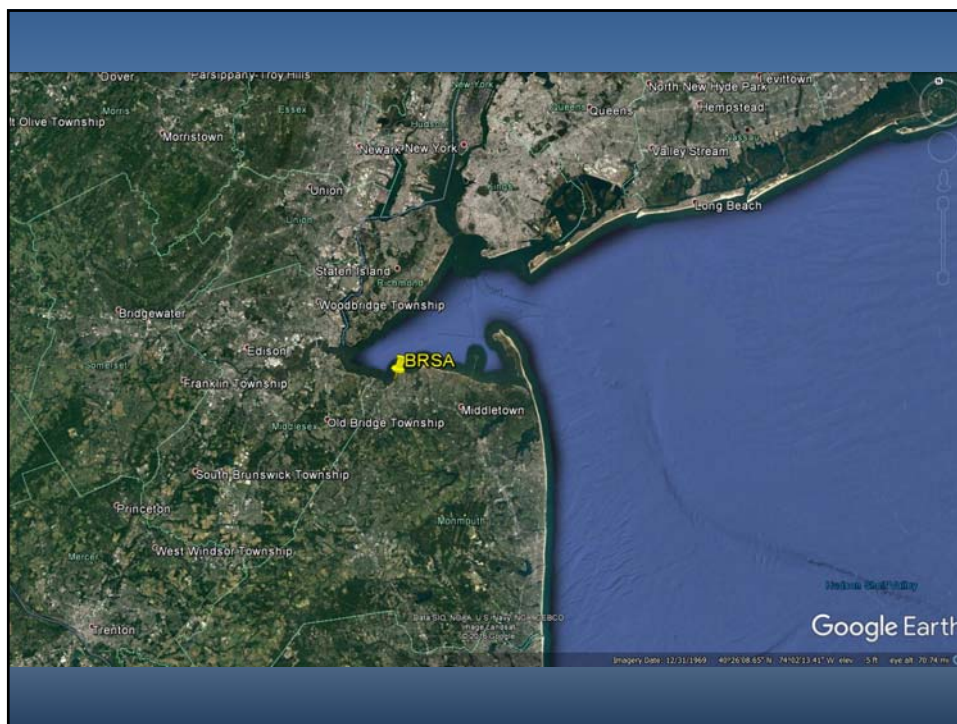


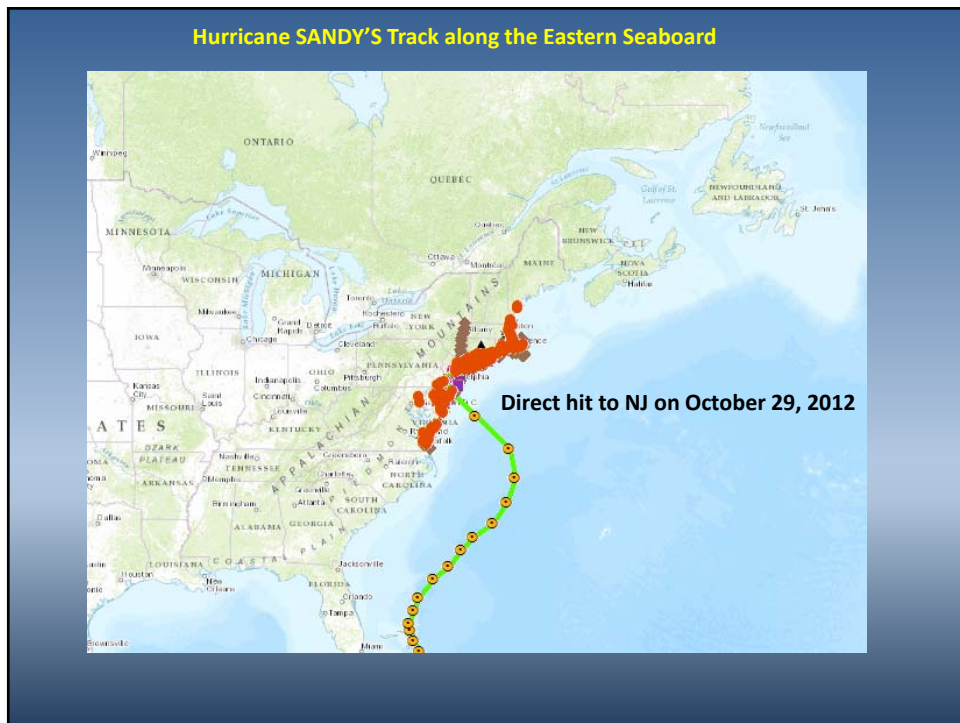
Disaster Recovery at the Bayshore Regional Sewerage Authority After Hurricane Sandy



USEPA Webinar November 22, 2016







Surrounding Community of Union Beach destroyed



250 homes demolished


Entire street wiped away




Fire damage followed Flood damage

Many left not to return


Wastewater Treatment Plant under 3-feet of salt water




Process equipment



Sludge Incineration System



Electrical System

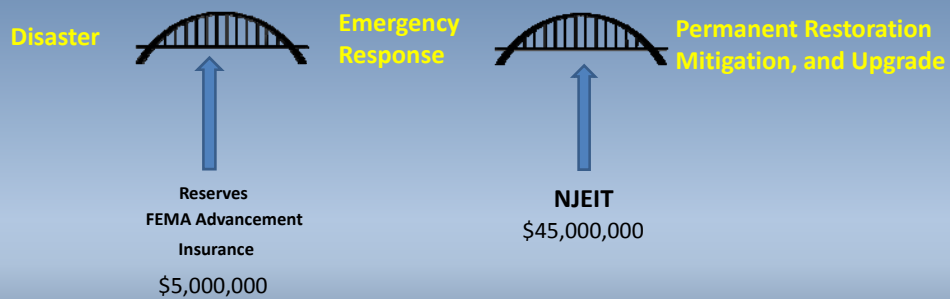


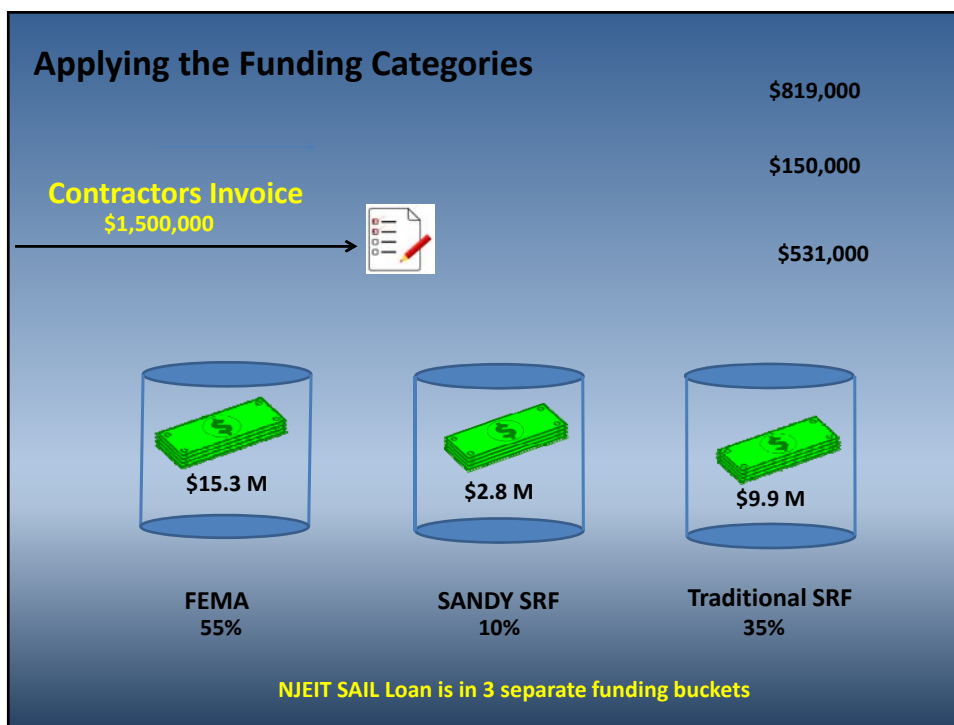
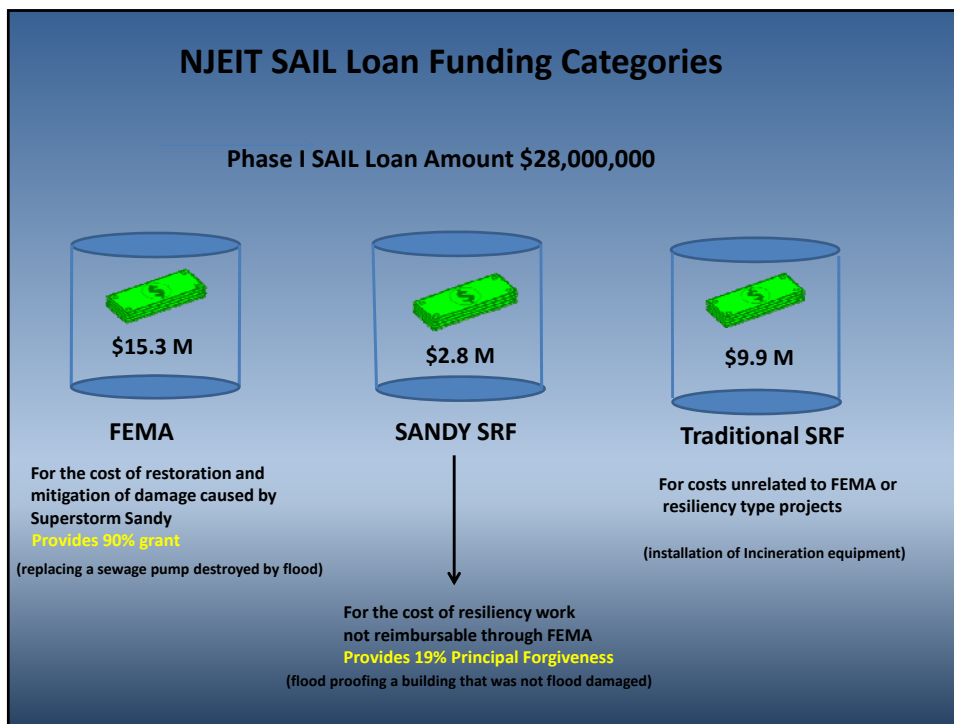
Records ,computer systems, office

Funding Requirements


- Restoration and Mitigation of flood damaged elements.
- Mitigation and resiliency of undamaged elements
- Plant wide Improvements and Upgrades

Bridge the funding gap between contractor payments and FEMA reimbursements






NJEIT/NJDEP




**Flow of Funds example:
Contractor Invoice of \$1,500,000**

NJOEM/FEMA




1. Contractor submits invoice for \$1,500,000, \$819,000 of which is FEMA reimbursable
2. Authority Pays contractor \$1,500,000
3. Authority Submits for reimbursement of \$1,500,000 to NJEIT
4. Authority Submits FEMA Reimbursement request for \$819,000 to NJEIT
5. NJEIT Reimburses Authority \$1,500,000
6. NJEIT Submits \$819,000 FEMA Reimbursement Request to STATE OEM
7. State OEM reimburses Authority \$819,000 with FEMA funds
8. Authority uses \$819,000 FEMA funds to repay portion of \$1,500,000 loan

Bayshore RSA



Contractors



\$1,500,000 - \$819,000 = \$681,000 converts to long term loan in 3 years

Restoration

October 29, 2012		Now
	→	
	→	
	→	

Mitigation



Mitigation



Mitigation



NJEIT SAIL Loan program

Loan Disbursement and Payback		as of may 31, 2016	
	NJEIT Disbursed	BRSA Paid	Long term due
FEMA	\$8,849,333	\$7,963,673	\$885,660
Sandy	\$708,597	\$134,633	\$573,964
Traditional	\$5,263,686	\$0	\$5,263,686
Sum	\$14,821,617		\$6,723,310

NJEIT SAIL Funding has Provided:

- Quick Bridge between Contractor payments and FEMA Reimbursements.
- 3-Year Short term loan with 75% no interest ~ 25% low interest.
- Ability to pay back loan prior to conversion to long term.
- Long term conversion of balance at 75% no interest, 25% low interest.
- 19% Principal Forgiveness for resiliency work

