

Pinellas County

**LOCAL MITIGATION STRATEGY**  
**ANNUAL UPDATE**  
**2022-2023**



January 24, 2023

Ms. Laura Dhuwe, Mitigation Bureau Chief  
State Hazard Mitigation Officer  
Florida Division of Emergency Management (FDEM)  
2555 Shumard Oak Boulevard  
Tallahassee, Florida 32399-2100

**RE: Pinellas County 2022-2023 Local Mitigation Strategy Annual Update**

Dear Ms. Dhuwe:

This letter is sent in compliance with the Florida Administrative Code 27P-22.004(4)(e) requirements pertaining to the 2022 – 2023 annual update of the Pinellas County's Local Mitigation Strategy (LMS) and its working group.

The Chair and the Vice-Chair of Pinellas County's LMS working group were elected at a regularly scheduled meeting on January 18, 2023. Smita Ambadi, Principal Planner, Pinellas County, was elected to continue as the LMS Chair for 2023. Megan Orlando, Emergency Management Specialist, City of St. Petersburg, was elected to continue as Vice-Chair for the year 2023.

The County's LMS membership consists of two types of members: voting and advisory. Voting members include representation from all participating municipalities, and Pinellas County. Advisory members include representation from other public and private agencies including regional partners, nonprofits, and community members. Advisory members do not formally vote but are consulted for technical expertise and valuable input into the planning process. The working group continues to work with and seeks to increase participation of not-for-profit organizations, faith-based associations, and the private sector. The dates for regular schedule of meetings that were held in 2022 are as follows: January 19; April 6; July 13; August 24 (LMS Annual Update Training); and October 12. Two additional meetings were scheduled in response to requests for information received for projects that were submitted for Hazard Mitigation Grant Program (HMGP) funding; August 10<sup>th</sup> meeting was scheduled for FEMA 4486-DR-FL COVID-19 and the December 7<sup>th</sup> meeting for FEMA 4337-DR-FL IRMA. Discussion topics and other pertinent information were disseminated by email. All quarterly meetings are posted on Pinellas County's LMS webpage, including the schedule for 2023.

The following is the list of attachments enclosed with this letter:

1. Annual LMS Update Memo 2022-2023.
2. Completed Annual Compliance Form - 27P-22 Fillable Form 2022-2023.
3. Pinellas County 2022-2023 LMS Working Group Roster.
4. Email Invitations to the Municipalities and other members.
5. Table A-1 Countywide Outreach.

310 Court St.  
Clearwater, FL 33756  
Phone (727) 464-8200  
Fax (727) 464-8201  
V/TDD (727) 464-4062  
[www.pinellascounty.org](http://www.pinellascounty.org)

6. Table A-2 Municipal Outreach Matrix.
7. Table D-1 Mitigation Initiatives.
8. Table D-2 Accomplishments.
9. Updated LMS Plan Introduction - A section summarizing Pinellas County's Sea Level Rise and Storm Surge Vulnerability Assessment study, that was added to the LMS Plan's Introduction.

The 2022-2023 Pinellas LMS Roster, Countywide Outreach, Municipal Outreach Matrix; Mitigation Initiatives; and Accomplishments, were approved by the LMS Working Group at the January 18, 2023, meeting.

If you have any questions or require any further information, please feel to contact my office at 727-464-8200 or via email at [clstricklin@pinellas.gov](mailto:clstricklin@pinellas.gov).

Sincerely,



Carol Stricklin, AICP  
Director, Pinellas County Housing and Community Development Department

cc: Commissioner Janet C. Long, Chair  
Pinellas County Board of County Commissioners

Catherine Perkins, Director  
Pinellas County Emergency Management

**LMS ANNUAL UPDATE MEMO**  
**2022-2023**





STATE OF FLORIDA

# **DIVISION OF EMERGENCY MANAGEMENT**

Ron DeSantis  
Governor

Kevin Guthrie  
Director

December 1, 2022

## **MEMORANDUM**

TO: County Director of Emergency Management  
Local Mitigation Strategy Working Group Chair/Coordinator

FROM: Laura Dhuwe, Mitigation Bureau Chief  
State Hazard Mitigation Officer  
Florida Division of Emergency Management

SUBJECT: Annual request for update, per 27P-22.004(4)(e) Florida Administrative Code

The purpose of this memo is to remind the Local Mitigation Strategy (LMS) Chairperson of the Florida Administrative Code 27P-22.004, which requires an annual update of information regarding the LMS plan and working group.

Please provide the following materials:

- Current list of members of the LMS working group, identifying current chairperson, vice chairperson, and/or coordinator (and contact information for each including email, phone, and mailing address)
- Documentation showing that the county has issued a written invitation to each municipality to participate in the LMSWG, within the preceding year.
- Current list of mitigation measures, identifying responsible agency/department, associated funding sources and their estimated costs, and expected timeframes for completion (also referred to as action item list, mitigation initiatives, or prioritized project list)
- Major changes (if applicable) to the local hazard assessment, critical facilities list, repetitive properties list, or plan maps occurring in the last year

The Florida Administrative Code 27P-22.004 is enclosed for your reference. Please note that this is not a request for your 5-year plan update.

**Please email this updated information by the last working weekday of January 2023** (Tuesday, January 31, 2023) to [MitigationPlanning@em.myflorida.com](mailto:MitigationPlanning@em.myflorida.com).

Upon submittal, our office will issue a letter of compliance. If your county does not submit the annual update information by the deadline, our office will issue a non-compliance letter on the first working day of February.

Please contact your LMS Liaison with any questions. Thank you in advance for your cooperation.

## **Annual Update Requirement**

***Current list of members of the LMS working group, identifying current chairperson, vice chairperson, and/or coordinator (and contact information for each including email, phone, and mailing address)***

### **Supporting documents:**

- Annual Compliance Form - 27P-22 Fillable Form 2022-2023 identifying the current chairperson, vice chairperson, and/or coordinator with their contact information.
- Pinellas County 2022-2023 LMS Working Group Roster.

**LMS ANNUAL COMPLIANCE FORM**  
**27P-22 Fillable Form 2022-2023**



## Florida Administrative Code 27P-22.004

### Annual Compliance Form

This form is due by the last working weekday of January 2023 (Tuesday, January 31, 2023). Please email the completed form to [MitigationPlanning@em.myflorida.com](mailto:MitigationPlanning@em.myflorida.com). Contact your liaison (listed below) with any questions. Thank you in advance for your cooperation.

Regions 1 and 2	Regions 3 and 5
Jantzen Heberle <a href="mailto:Jantzen.Heberle@em.myflorida.com">Jantzen.Heberle@em.myflorida.com</a> 850-815-4504	Brigette Carrillo <a href="mailto:Brigette.Carrillo@em.myflorida.com">Brigette.Carrillo@em.myflorida.com</a> 850-815-4316
Regions 4 and 6	Region 7
Angie Speir <a href="mailto:Angie.Speir@em.myflorida.com">Angie.Speir@em.myflorida.com</a> 850-815-4502	Kristin Lentz <a href="mailto:Kristin.Lentz@em.myflorida.com">Kristin.Lentz@em.myflorida.com</a> 850-273-2950

<i>Reference: FAC 27P-22.004(4)(a)</i>		
<b>County</b>	Pinellas	
<b>Chair</b>	NAME: Smita Ambadi, LEED ND, SCPM	TITLE: Principal Planner
	JURISDICTION: Pinellas County	
	ADDRESS: 310 Court Street, Clearwater, FL 33756	
	PHONE (O): 727-464-8221	PHONE (C):
	EMAIL: sambadi@pinellas.gov	
<b>Vice Chair</b> <i>(if applicable)</i>	NAME: Megan Orlando, FPED, MPA, MCP	TITLE: EM Specialist
	JURISDICTION: City of St. Petersburg, Pinellas County	
	ADDRESS: 400 Dr. M.L.K. Jr St. S, St. Petersburg, FL 33701	
	PHONE (O): 727-892-5200	PHONE (C): 727-503-9212
	EMAIL: megan.orlando@stpete.org	
<b>LMS Coordinator/ EM Coordinator</b> <i>(if applicable)</i>	NAME: Catherine Perkins	TITLE: Director, Pinellas County Emergency Management
	JURISDICTION: Pinellas County	
	ADDRESS: 10750 Ulmerton Rd, Bldg 1 Suite 267, Largo FL 33778	
	PHONE (O): 727-464-3851	PHONE (C): 727-200-6997
	EMAIL: cperkins@pinellas.gov	

Was your county's LMS Plan submitted to the State for review within the last 6 months?	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO	
If yes, have there been any changes since the plan was submitted?	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> N/A
<i>If yes or N/A, please complete the entire form.</i>			
<i>If no, your 27P-22.004 annual compliance form is complete!</i>			



Requirement Checklist	Comments
<b>LMS Working Group (LMSWG)</b> Submit the LMSWG list, including contact information. <i>Reference: FAC 27P-22.004(4)(a)</i>	<input checked="" type="checkbox"/> Attached Please find attached, the updated LMS Working Group Roster.
<b>LMSWG Participation Invites</b> Provide documentation showing that the county has issued a written invitation to each municipality to participate in the LMSWG, within the preceding year. <i>FAC 27P-22.004(4)(3)</i>	<input checked="" type="checkbox"/> Attached Please find attached, copies of email invitations to Pinellas County's 24 municipalities.
<b>Hazard Analysis Change</b> Are there any new or removed hazards? <i>FAC 27P-22.004(4)(e)(1)</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <i>(If yes, attached the updated sections)</i> There are no new or removed hazards. However, a summary of Pinellas County's Sea Level Rise and Storm Surge Vulnerability Assessment study, was incorporated into the LMS Plan. Please find attached, the related document.
<b>Prioritized Project List (PPL)</b> Include project list in order of priority, identifying the agency/department responsible for the projects, estimated costs, potential funding sources, and expected timeframes for completion. <i>FAC 27P-22.004(4)(e)(2), FAC 27P-22.005(7)</i>	<input checked="" type="checkbox"/> Attached <i>(in excel)</i> Please find attached, updated Table D-1 Mitigation Initiatives List from the LMS plan.
<b>Critical Facilities List</b> Have there been any changes to the critical facilities list within the past year? <i>FAC 27P-22.004(4)(e)(3)</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <i>(If yes, attached the updated list)</i>
<b>Repetitive Loss Properties List</b> Have there been any additions or removals to the repetitive loss properties in any of the jurisdictions within the past year? <i>FAC 27P-22.004(4)(e)(4)</i>	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <i>(If yes, attached the updated list)</i> There are four new properties in the unincorporated area, that have been added to Pinellas County's list. However, the list is protected and therefore is not being submitted with the rest of the 27P-22 Annual Update documents.
<b>Revisions to Maps</b> Were there any changes to maps included in the LMS within the preceding year? <i>FAC 27P-22.004(4)(e)(5)</i>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <i>(If yes, attached the updated map(s))</i>

**Pinellas County**  
**WORKING GROUP ROSTER**  
**2022-2023**

**Pinellas County  
Local Mitigation Strategy  
2022 - 2023 Working Group Roster**

Agency/Organization	Name	Primary/Alternate Member	E-Mail Address	Phone	Position Title
American Red Cross	Hendrickson, Mark	Stakeholder	mark.hendrickson@redcross.org	727-744-0382	Business Consultant for COOP & Community Development Education
American Red Cross	Bueno, Jose C	Stakeholder	Jose.Bueno@redcross.org	813-868-7673	Regional Preparedness Manager
Area Agency on Aging of Pin./Pasco	Martino, Jason	Stakeholder	jason.martino@aaapp.org	727-570-9696	Emergency Coordinating Officer
Bay Area DKI	Ennest, Chris	Stakeholder	CEnnest@bayareadki.com	813-224-2464	Account Manager
Bayfront Health St. Petersburg	Beckert, Bruce	Stakeholder	bruce.beckert@hma.com	727-893-6967	Construction Coordinator
Bayfront Health St. Petersburg	Fournier, Roger	Stakeholder	roger.fournier@BayfrontHealth.com	727-893-6171	Director of Public Safety
Bayfront Health St. Petersburg	Baker, Glenn	Stakeholder	Glenn.Baker@bayfronthhealth.com	727-893-6074	Emergency Management Coordinator
Belleair	Lauda, Gregg	Primary Member	glauda@townofbelleair	727-588-3760 ext. 215	Certified Floodplain Manager C.F.M
Belleair Beach	Riefler, Kyle	Primary Member	Kyle.riefler@cityofbelleairbeach.com	727-595-4646 ext. 123	City Manager
Belleair Bluffs	Sullivan, Debra	Primary Member	dsullivan@belleairbluffs-fl.gov	727-584-2151 Cell: 727-638-6497	City Administrator
Belleair Bluffs	Schmader, Russ	Primary Member	rschmader@belleairbluffs-fl.gov	727-307-5773	Public Works Director
Belleair Shore	Colucci, Barbara	Primary Member	clerkbelleairshore@gmail.com	727-593-9296	Town Clerk
Clearwater	Kessler, Sarah	Primary Member	Sarah.Kessler@myclearwater.com	727.562.4897	Lead Environmental Specialist CRS Coordinator
Clearwater	Graham, Jevon	Primary Member	jevon.graham@myclearwater.com	727-562-4334 ext. 3205	Emergency Manager
Clearwater	Lopko, Jayme	Alternate Member	Jayme.Lopko@myclearwater.com	727.562.4561	Long Range Planning Manager
Clearwater	Smith, Derek	Alternate Member	derek.smith@myclearwater.com	727.562.4334 ext.4171	Emergency Management Specialist
Dunedin	DiPasqua, Joseph	Primary Member	jdipasqua@dunedinfl.net	727-298-3193	Assistant Director of Community Development
Dunedin	Gass, Natalie	Primary Member	ngass@dunedinfl.net	727-298-3212 ext. 1324	Sustainability Program Coordinator
Dunedin	Woodham, Matthew	Primary Member	mwoodham@dunedinfl.net	727- 298-3179	Senior Engineer
Dunedin	Parks, Jeff	Alternate Member	jparks@dunedinfl.net	727-298-3094	Fire Chief
East Lake Tarpon Fire Control District	Jamison, Tom	Stakeholder	tjamison@elfr.org	727-784-8668	Fire Chief
Eckerd College	Colby, Adam	Stakeholder	colbyac@eckerd.edu	727-864-7732	Assistant Vice President/Operations & Emergency Management
FDOT	Aborizk, Angela	Stakeholder	angela.aborizk@dot.state.fl.us	813-615-8630	FPED Emergency Operations Coordinator
FEMA - Region IV	Vigo, Gabriela	Stakeholder	gabriela.vigo@fema.dhs.gov	229-225-4546	HMA Program Specialist, FL
FL Restaurant & Lodging Assoc.	Lynch, Dannette	Stakeholder	dannette@frla.org	727-642-3404	Regional Director Florida Restaurant & Lodging Association
Florida Emergency Management	Price, Jamie	Stakeholder	Jamie.price@em.myflorida.com	Office: 850-413-9925 Cell: 850-694-6620	Lead Mitigation Planner
Florida Emergency Management	Wallick, Michael	Stakeholder	Michael.Wallick@em.myflorida.com	850-922-0325	Mitigation Planner

**Pinellas County  
Local Mitigation Strategy  
2022 - 2023 Working Group Roster**

Agency/Organization	Name	Primary/Alternate Member	E-Mail Address	Phone	Position Title
Gulfport	Taylor, Michael	Primary Member	mtaylor@mygulfport.us	727-893-1087	Principal Planner
Gulfport	Streicher, Clark	Primary Member	cstreicher@mygulfport.us	727-893-1020	Building Official
Gulfport	Griffin, Mark	Alternate Member	mgriffin@mygulfport.us	(727) 893-1023	Planner
HCA Health Care	Ryan, Tracie	Stakeholder	Tracie.Ryan@hcahealthcare.com	813-599-5376	EMS Relations Director-Pinellas County
HCA Health Care	Squires, Patti	Stakeholder	PattiSue.Squires@hcahealthcare.com		
Hillsborough County Hazard Mitigation	Eugene Henry, AICP, CFM	Stakeholder	Henrye@hillsboroughcounty.org	813-307-4541	Hazard Mitigation Manager/Hillsborough Co. LMS Coordinator
Hillsborough County Hazard Mitigation	Hummel, Christina, AICP	Stakeholder	HummelC@hillsboroughcounty.org	813-307-1800	Senior Planner Hazard Mitigation / Public Works Department
Hillsborough County Hazard Mitigation	Twaite, William	Stakeholder	TwaiteW@hillsboroughcounty.org	813-276-8245	Hazard Mitigation Manager/Hillsborough Co.
Indian Rocks Beach	Scharmen, Dean	Primary Member	dscharmen@irbcity.com	727-595-6889	Public Services Director
Indian Rocks Beach	Olson, Colleen	Primary Member	colson@irbcity.com	727-595-6889	Administrative Assistant
Indian Shores	Dhonau, Bonnie	Primary Member	bdhonau@myindianshores.com	727-474-7777	Town Administrator
Indian Shores	Cushing, Darin	Primary Member	buildingofficial@myindianshores.com	727-517-3940	Building Official
Indian Shores	Jones, William	Primary Member	wjones@myindianshores.com	727-474-7786	Building Clerk
Kenneth City	Cavalli, Peter, MPA	Primary Member	cavallip@kennethcityfl.org	727-498-8948	Town Manager
Kenneth City	Cabezas, Ana	Alternate Member	cabezas@kennethcityfl.org	727-498-8948	Town Clerk
Largo	Johnson, Cody	Primary Member	cjohnson@largo.com	727-587-6740 ext. 2111	Division Chief of Emergency Management / EM Coordinator
Largo	Rocke, Ann	Primary Member	arocke@largo.com	727-587-6740 ext. 4425	Program Engineer
Largo	Ball, Sam	Primary Member	sball@largo.com	727-586-7488 ext. 1640	Planner I
Largo	Pennino, Joseph, MPP	Alternate Member	jpennino@largo.com	727-587-6740 ext. 2101	Deputy Fire Chief
Largo	Mahr, Summer	Alternate Member	smahr@largo.com	727-587-6740 ext. 2014	Public Educator
Largo	Murphy, Philip	Alternate Member	phmurphy@largo.com	727-586-7488 ext. 7303	Plans Examiner
Madeira Beach	Portal, Linda	Primary Member	lportal@madeirabeachfl.gov	727-391-9951 ext. 255	Community Development Director
Madeira Beach	Wepfer, Megan	Alternate Member	mwepfer@madeirabeachfl.gov	727-391-9951 ext. 401	Public Works Director
Madeira Beach	Rowan, Jenny	Alternate Member	jrowan@madeirabeachfl.gov	727-391-9951 ext. 283	Senior Planner
Advent Health North Pinellas	Clark, Carol	Stakeholder	carol.clark@adventhealth.com	727-943-3403	Safety & Security Specialist
North Redington Beach	Cooper, Bruce	Primary Member	bcooper@safebuilt.com	727-202-6825	Building Official/Safe Built
North Redington Beach	Campbell, Mari	Primary Member	townclerk@townofnorthredingtonbeach.com	727-391-4848	Town Clerk
North Redington Beach	Lewis, Don	Primary Member	ceofficer@townofnorthredingtonbeach.com	727-391-4848	Code enforcement officer



**Pinellas County  
Local Mitigation Strategy  
2022 - 2023 Working Group Roster**

Agency/Organization	Name	Primary/Alternate Member	E-Mail Address	Phone	Position Title
North Redington Beach	Schmader, Renee	Alternate Member	deputyclerk@townofnorthredingtonbeach.com	727-391-4848	Deputy Town Clerk
Oldsmar	Schwabe, Jason	Primary Member	JSchwabe@myoldsmar.com	813-749-1200	Fire Chief
Oldsmar	Childress, Tatiana	Primary Member	TChildress@myoldsmar.com	813-749-1147	Planning & Redevelopment Director
Oldsmar	Clark, Mandi	Alternate Member	mclark@myoldsmar.com	813-749-1123	Floodplain & Building Coordinator
Oldsmar	Simpson, Daniel	Alternate Member	dsimpson@myoldsmar.com	813-749-1262	Public Works Director
PARC	Detweiler, Michelle	Stakeholder	MDetweiler@PARC-FL.org	727-341-6903	Chief Operating Officer
Pinellas County	Perkins, Cathie	Primary Member	cperkins@co.pinellas.fl.us	727-464-3800	Emergency Management Director
Pinellas County	Ambadi, Smita	Primary Member	sambadi@co.pinellas.fl.us	727-464-8200	Principal Planner (LMS Chair)
Pinellas County	Foster, Lisa	Alternate Member	lfoster@pinellascounty.org	727-464-8962	Floodplain Coordinator
Pinellas County	Borries, Joe	Alternate Member	jborries@pinellascounty.org	727-464-3803	EM Operations Manager
Pinellas County	Bolling, Libby	Alternate Member	lbolling@co.pinellas.fl.us	727-453-3345	Public Information Specialist
Pinellas County	Bowman, Rhonda	Alternate Member	rbowman@co.pinellas.fl.us	727-453-3406	Senior Engineer
Pinellas County	Moore, Maxine	Alternate Member	mmoore@pinellascounty.org	727-464-8206	Floodplain Technician
Pinellas County	Lazaris, Nick, Captain	Alternate Member	nlazaris@pcsonet.com	727-582-6301	Captain/Pinellas County Sheriff's Office Special Operations Division
Pinellas County	Moore, Chris	Alternate Member	cdmoore@pinellascounty.org	727-464-8226	Assistant to the County Administrator, Lealman Community
Pinellas County	Hodde, Hank	Alternate Member	hhodde@co.pinellas.fl.us	727-464-3485	Sustainability and Resiliency Coordinator
Pinellas County	Hendrix, Stephanie	Alternate Member	shendrix@co.pinellas.fl.us	727-464-3811	Planning and Preparedness Program Lead/Emergency Management
Pinellas County	Margiotta, Cindy	Alternate Member	cmargiotta@co.pinellas.fl.us	727-464-7398	Economic Development/Department Administrative Manager
Pinellas County	Doherty, Heather	Alternate Member	hdoherty@co.pinellas.fl.us	727-464-3471	Engineering Service Tech II/CFM
Pinellas County	Ferguson, Alexis	Alternate Member	aferguson@pinellascounty.org	727-464-8076	Transportation Systems Coordinator/Public Works - Transportation
Pinellas County	Swearengen, Scott	Alternate Member	sswearengen@co.pinellas.fl.us	727-464-8199	Long Range Planning Manager
Pinellas County	Scofield, Thomas	Alternate Member	tscofield@co.pinellas.fl.us	727-464-8200	Principal Planner/Historic Preservation Specialist
Pinellas County	Drexler, Ivy	Alternate Member	idrexler@co.pinellas.fl.us	727-582-2275	Waste Water Treatment Plant Manager

**Pinellas County  
Local Mitigation Strategy  
2022 - 2023 Working Group Roster**

Agency/Organization	Name	Primary/Alternate Member	E-Mail Address	Phone	Position Title
Pinellas County	Beim, Donna	Alternate Member	dbeim@pinellascounty.org	727-582-2510	Radio Systems Administrator
Pinellas County	Hancock, Noralvys	Alternate Member	nhancock@co.pinellas.fl.us	727-582-7491	Technical Project Coordinator
Pinellas County Juvenile Welfare Board	Biddleman, Marcie	Stakeholder	mbiddleman@jwbpinellas.org	727-453-5611	Executive Director
Pinellas County Juvenile Welfare Board	Waldron, Shelba	Stakeholder	swaldron@jwbpinellas.org	727-453-5696	Program Consultant
Pinellas County Schools	Dluzneski, Dan	Stakeholder	dluzneskid@pcsb.org	727-547-7205	EM Coordinator
Pinellas Park	Boisvert, Suzanne	Primary Member	SBoisvert@pinellas-park.com	727-369-5808	Emergency Management Coordinator
Pinellas Park	Reeves, Derek	Primary Member	dreeves@pinellas-park.com	727-369-5838	Long Range Planning Manager
Pinellas Park	Lindquist, Erica	Alternate Member	elindquist@pinellas-park.com	727-369-5650	Planning & Development Services Director
Pinellas Park	Schlatterer, Brett	Alternate Member	bschlatterer@pinellas-park.com	727-369-5800	Fire Chief
Pinellas Suncoast Fire Rescue District	Burton, Mike	Stakeholder	mburton@psfrd.org	727-595-1117 ext. 101	Fire Chief
Pinellas Suncoast Transit Authority (PSTA)	Gavin, B.J.	Primary Member	bjgavin@psta.net	727-709-1034	Civil Engineer
Pinellas Suncoast Transit Authority (PSTA)	Dufva, Nicole	Primary Member	ndufva@psta.net	727-418-6376	Project Planner
Pinellas Suncoast Transit Authority (PSTA)	Sobush, Heather, AICP	Alternate Member	hsobush@psta.net	727-540-1868	Director of Planning
Redington Beach	Clarke, Missy	Primary Member	townclerk@townofredingtonbeach.com	727-391-3875	Town Clerk
Redington Beach	Cooper, Bruce	Primary Member	bcooper@safebuilt.com	727-202-6825	Building Official
Redington Beach	Nieves, Adriana	Alternate Member	deputyclerk@townofredingtonbeach.com	727-391-3875	Deputy Town Clerk
Redington Shores	Shoobridge, Jeff	Primary Member	jshoobridgeredshoresfl.com	727-397-5538	Town Administrator
Redington Shores	LaPorta Vincent	Primary Member	vlaporta@redshoresfl.com	727-397-5538	Building Official
Redington Shores	Krouk, Cinda	Alternate Member	comdist2@redshoresfl.com	727-397-5538	Commissioner, District 2
Redington Shores	Campbell, Tracey	Alternate Member	depclerk@townofredingtonshores.com	727-397-5538	Deputy Town Clerk
Safety Harbor	Chen, Cecilia	Primary Member	cchen@cityofsafetyharbor.com	727-724-1555 ext. 1703	Community Planner/GIS Analyst
Safety Harbor	Stenmark, Marcie	Alternate Member	mstenmark@cityofsafetyharbor.com	727-724-1555 ext. 1702	Community Development Director
Seminole	Wright, Wesley	Primary Member	wwesley@myseminole.com	727-398-3108 ext. 129	Community Development Director
Seminole	Due, Rodney	Alternate Member	rdue@myseminole.com	727-397-6383	Director of Public Works
Seminole	Mugenski, Aleksandra	Alternate Member	amugenski@myseminole.com	727-393-8711 ext. 212	Fire Marshal
Seminole	Burford, Heather	Alternate Member	hburford@myseminole.com	727-393-8711 ext. 217	Fire Chief
South Pasadena	Sullivan, Terri	Primary Member	TSullivan@mysouthpasadena.com	727-343-4192	Community Improvement Director/Building Official
South Pasadena	Mixson, David	Primary Member	firechief@mysouthpasadena.com	727-344-1666	Fire Chief/Emergency Manager
South Pasadena	Wagner, Ashley	Alternate Member	awagner@mysouthpasadena.com	727-343-4192	Building Services Coordinator
St. Anthony's Hospital	Nicely, John	Stakeholder	john.nicely@baycare.org	727-825-1128	Director Facilities Management Systems
St. Pete Beach	Dunn, Rick	Primary Member	rdunn@stpetebeach.org	727-363-9276	Building Official

**Pinellas County  
Local Mitigation Strategy  
2022 - 2023 Working Group Roster**

Agency/Organization	Name	Primary/Alternate Member	E-Mail Address	Phone	Position Title
St. Pete Beach	Vasquez, Mark	Primary Member	mvasquez@stpetebeach.org	727-363-9209	Deputy Building Official
St. Pete Beach	Anderson, Julie	Alternate Member	janderson@stpetebeach.org	727-363-9244	Building Division Manager/Community Development
St. Pete Beach	Berry, Brandon	Alternate Member	bberry@stpetebeach.org	727-363-9229	Senior Planner
St. Pete Beach	Kilpatrick, Jim	Alternate Member	firechief@stpetebeach.org	724-363-9206	Fire Chief
St. Pete Beach	Intzes, Kelly	Alternate Member	firemarshal@stpetebeach.org	727-363-9205	Fire Marshal
St. Petersburg	Boulding, Amber	Primary Member	amber.boulding@stpete.org	727-893-7683	Emergency Management
St. Petersburg	Orlando, Megan	Primary Member	megan.orlando@stpete.org	727-892-5200	Emergency Management
St. Petersburg	Crawford, Scott	Primary Member	scott.crawford@stpete.org	727-893-7385	Floodplain Administrator/Deputy Building Official
St. Petersburg	Jacobsen, Grace	Alternate Member	Grace.Jacobsen@stpete.org	727-551-3821	Marketing Project Coordinator
St. Petersburg	Perry, Michael	Alternate Member	michael.perry@stpete.org	727-893-7759	Engineering Manager
St. Petersburg	Malowany, Frank	Stakeholder	malow1@aol.com	727-342-3800	Broker Associate, Smith & Associates Real Estate
St. Petersburg	Gabbard, Brandi	Stakeholder	brandi.gabbard@stpete.org;	727-798-6216	City Council
St. Petersburg	Dailey, Chris	Stakeholder	chris.dailey@rsandh.com	813-636-2722	Senior Environmental Scientist, RS&H
St. Petersburg	Simoniello, Chris	Stakeholder	simoniel@mail.usf.edu	727-322-1318	Research Scientist, Texas A&M University
St. Petersburg	Richardson, Glen	Stakeholder	glen@getgulfhomes.com	727-224-6331	Realtor, Real Estate
St. Petersburg	Holehouse, Jake	Stakeholder	jwh@hhinsgroup.com	727-470-5177	Executive VP, Insurance,
St. Petersburg	Scolaro, Sheila	Stakeholder	sscolaro@tbep.org	727-893-2765	Public Outreach Specialist, Tampa Bay Estuary Program
St. Petersburg	Grillone, Melanie	Stakeholder	mgrillone@tampabaywatch.org	727-867-8166	GIS Environmental Specialist, Tampa Bay Watch
St. Petersburg	Carnahan, Libby	Stakeholder	lcarnahan@pinellascounty.org	727-453-6522	Sea Grant Agent, USF Extension
St. Petersburg	Nordin, Jason R.	Stakeholder	jnordin@americanmomentum.bank	813-549-4785	VP Mortgage Area Sales Manager, American Momentum Bank
St. Petersburg	Hirigoyen, Grace	Stakeholder	Grace@ffplegal.com	813-898-2828	Florida Registered Paralegal, Fletcher Fischer Pollack P.L.
Sunstar	Eells, Brian	Stakeholder	beells@sunstarems.com	727-582-2216	Director of Communications and Emergency Management
SWFWMD	Roberts, Lloyd	Stakeholder	Lloyd.Roberts@swfwmd.state.fl.us	352-796-7211 ext. 4545	Senior P.E., Emergency Coordinating Officer
Tampa Bay Regional Planning Council	Serra, Cara Woods, AICP, CFM	Stakeholder	cara@tbrpc.org	727-570-5151	Comprehnsvie Resiliency Planner
Tarpon Springs	Vincent, Renea	Primary Member	rvincent@ctsfl.us	727-942-5611	Planning Director
Tarpon Springs	Powell, Kevin CBO, CFM	Primary Member	kpowell@ctsfl.us	727-942-5604 ext. 2274	Building Development Director
Tarpon Springs	Misener, Craig	Alternate Member	cmisener@tsfr.us	727-938-3737	Lt., Fire Rescue
Tarpon Springs	Young, Scott	Alternate Member	syoun@tsfr.us	727-938-3737	Fire Chief
Tarpon Springs	Araya, Megan	Alternate Member	maraya@ctsfl.us	727-942-5604	Floodplain Coordinator
Tarpon Springs	McNeese, Pat	Alternate Member	pmcneese@ctsfl.us	727-938-3711 ext. 2255	Principal Planner

**Pinellas County  
Local Mitigation Strategy  
2022 - 2023 Working Group Roster**

Agency/Organization	Name	Primary/Alternate Member	E-Mail Address	Phone	Position Title
Tarpon Springs Housing Authority	Hale, Kelly, CAM, NALP	Stakeholder	Kelly.hale@tarponhousing.com	727-937-4411	Asset Manager
The Arc Tampa Bay Inc.	Reginelli, Carolyn	Stakeholder	creginelli@thearctb.org	727-799-3330 ext. 7433	Grant Writer
Treasure Island	Viveiros, Jamie, CFM	Primary Member	javiveiros@mytreasureisland.org	727-547-4575 ext. 233	Assistant Community Development Director
Treasure Island	Younkin, Kathryn, AICP	Alternate Member	kyounkin@mytreasureisland.org	727-547-4575 ext. 231	Community Development Director
UF/IFAS Extension	Madhosingh-Hector, Ramona	Stakeholder	rmadhosingh-hector@co.pinellas.fl.us	727-582-2656	UF/IFAS Extension Agent, Urban Sustainability
UF/IFAS Extension	Carnahan, Libby	Stakeholder	lcarnahan@co.pinellas.fl.us	727-453-6522	Florida Sea Grant Agent
University of South Florida	Van Asten, Guy	Stakeholder	vanasten@mail.usf.edu	727-873-4216	Interim Emergency Management Coordinator
Wright National Flood Insurance Company	Tharp, Ashley	Stakeholder	Ashley.Tharp@weareflood.com	800-820-3242 ext. 5510	Corporate Agent Training Manager

## **Annual Update Requirement**

***Documentation showing that the county has issued a written invitation to each municipality to participate in the LMS working group, within the preceding year.***

### **Supporting documents:**

- Email invitations to the municipalities and other public and private agencies, requesting participation in the LMS Working Group meetings; 2022-2023 Annual Update process; and LMS Annual Update training.
- Email invitations to the municipalities and other public and private agencies, regarding the Hazard Mitigation Grant Program (HMGP) 4486-DR-FL COVID-19 and 4337-DR-FL IRMA.

## Ambadi, Smita

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**Subject:** LMS Working Group Meeting (HMGP COVID-19)  
**Location:** Virtual Meeting Via Zoom (Webinar Instructions Attached)

**Start:** Wed 8/10/2022 1:30 PM  
**End:** Wed 8/10/2022 3:30 PM  
**Show Time As:** Tentative

**Recurrence:** (none)

**Meeting Status:** Not yet responded

**Organizer:** Ambadi, Smita

**Required Attendees** Abigail Lloyd; Adam Colby; Aleksandra Mugenski; Alexis Fergusen; All Children's Hospital Larry Green; Amber Boulding; Anita Wang; arocke@largo.com; Ashley Tharp; B J Gavin; Barbara Colucci; Bayfront Medical Center Glenn Baker; Bayfront Medical Center Roger Fournier; bdhonau@myindianshores.com; Beim, Donna J; Bell, Pam L; Bill Blair; Bill Krajewski; Bill Palmer; Bolling, Libby; Borries, Joseph G; Brandi Gabbard; Brandon Berry; Brandon Henry; Brian Eells; Bridgexp@aol.com; Bruce Beckert; Bruce Cooper; Bryan.Scanlon@hcahealthcare.com; Calvin Warren; campbellm@kennethcityfl.org; Captain Nick Lazaris; Cara W Sara; Carlos Frey ; Carnahan, Elizabeth (Libby); Carol Clarke; Carolyn Reginelli; CEnnest@bayareadki.com; ceofficer@townofnorthredingtonbeach.com; Cheryl Collier Reed; Chris Dailey; Chris Simoniello; Cinda Krouk; Cindy Margiotta; Clint Belk; Cody Johnson; Colleen Olson; comdist3@townofredingtonshores.com; Craig Misener; cstreicher@mygulfport.us; dannette@frla.org; Danny Hinson; Danny Taylor; Darin Cushing; David Leihman; David Mixson; Dean Scharmen; Debra Sullivan; depclerk@townofredingtonshores.com; deputyclerk@townofnorthredingtonbeach.com; deputyclerk@townofredingtonbeach.com; Dereck Reaves; Detweiler, Michelle; Doherty, Heather; Don Lewis; doneal@madeirabeachfl.gov; earl.gloster@myclearwater.com; Elizabeth Macofske; Erica Lindquist; Fire Chief Jim Kilpatrick; Fire Marshal; firechief@mysouthpasadena.com; Florida Hospital North Pinellas (Helen Ellis) Daniel Greive; Frank Malowany; gabriela.vigo@fema.dhs.gov; Gaby Placido; Gary; gberkheimer@pinellas-park.com; gengel@mygulfport.us; Georges Gonzalez; Glen Richardson; Grace Hirigoyen; Grace.Jacobsen@stpete.org; Graham Joseph; Gregg Lauda; Gregg Silliman; Guy Van Asten; Hank Hodde; Harvey, Gina A; Heather Burford; Heather Sobush; henrye@hillsboroughcounty.org; Ivy Drexler; Jake Holehouse; Jamie Vivieros; Jason R. Nordin; Jason Schwabe; jason.martino@aaapp.org; Jeff Shooobridge; Jenny Rowan; Jeremy Sidlauskas; Jevon Graham; Jocilyn Martinez; Joel Brown; John (John@winfl.com); John Ondrovic; john.nicely@baycare.org; Jose.Bueno@redcross.org; Joseph DiPasqua; Joseph Pennino, MPP; Karen Paulson; Kathryn Younkin; Kathy Gademer; Keith Bodeker; Kelli Reddick; Kelli Thurson; Kelly Cisarik; Kelly Hale; Kelly Intzes; Ken Jacobs; Kevin Powell; Kimberly Williams; Kindred Healthcare Debra Plummer; Kyle Riefler; Largo Medical Center - 14th St Campus Adam Brett; Largo Medical Center - 14th St Campus Jon Ashford; Largo Medical Center - Indian Rocks Rd Campus Tom Smith; Laura Thomas; Leigh Lac ; Linda Portal; Lisa Foster; logan.smith@stpete.org; Lt. Tom Brennan; Luke Curtis; Lynn Rosetti; Madhosingh-Hector, Ramona; Mandi Clark; Marjaa Bell; Mark Griffin; mark.hendrickson@redcross.org; Matthew Woodham; Maxine Moore; mdauphinais@myoldsmar.com; Megan Araya, CFM; Megan Orlando; Megan Wepfer; Melanie Grillone; mely@myseminole.com; mgreen@myindianshores.com; Michael Davis; Michael Ferguson; Michael.Perry@stpete.org; Mike Knotek; mkoutsoftas@mytreasureisland.org; Morton Plant/Mease Hospital Dirk Palmer; Mstenmark@cityofsafetyharbor.com; mtaylor@mygulfport.us; Natalie Gass; Neal Mazzei; Nicole Dufva; Noralvys Hancock; Northside Hospital Charles Hunt; Northside Hospital Fred Norton; Palms of Pasadena Hospital Chuck Giorgio; Parks, Jeff; Patricia McNeese; Patti Squires; Pete Cavalli; Petya Getsova ; Philip Murphy; Renea Vincent; Rhonda Bowman; Richard Perez; Rives,

**Required Attendees:** Lynn; Rodney Due; rrobertson@ctsfl.us; rschmader@belleairbluffs-fl.gov; rtwalker@pinellascounty.org; Russell Ferlita; Sam Ball; Sarah.Kessler@myclearwater.com; SBoisvert@pinellas-park.com; Schlatterer, Brett; Scott Crawford; Scott Young (syoun@tsfr.us); scott.ehlers@myclearwater.com; scroghams@kennethcityfl.org; Season Groves; Sheila Scolaro; Sheldon Hershman; Shrimatee Ojah Maharaj; Smita Ambadi; Soltau, Steve; Spencer Shaw; St. Anthony's Hospital Otis Gatewood, JR; St. Petersburg General Hospital Chuck Shuff; St. Petersburg General Hospital Robert Conroy Jr.; Stephanie Hendricks; Stephen Tetlak; Steven Clark; Summer Mahr; Susan Portal; Talhouk, David A; Tatiana Childress; Terri Sullivan; thillier@pinellas-park.com ; tjamison@elfr.org; Tom Menke; Tom Scofield; townclerk@townofnorthredingtonbeach.com; townclerk@townofredingtonbeach.com; townclerk@townofredingtonshores.com; Tracie Ryan; tracy@fmsbuildingdepartment.com; Van Austen; vicki.russo@yahoo.com; Vince Tenaglia; Walter Inman; Waunda Henry; Wesley Wright

**Optional Attendees:** Aborizk, Angela; Perkins, Cathie; Hammer Levy, Kelli; Carol Stricklin; Evan Johnson; Scott M Swearngen (sswearngen@co.pinellas.fl.us); Chris Moore; Lowack, Brian; Collins, Fredricka; Christina Hummel; Chris Zambito; William Twaite; Chris Niforatos; Khan Boupah; Smith, Derek; Building Official; Schoel, Daniel

## **Local Mitigation Strategy - Working Group Meeting Wednesday, Aug 10th 2022, 1:30 PM**

**PLEASE NOTE: This meeting has been scheduled to discuss a Request for Information (RFI), that we have received from the State. This is regarding some of the applications that were submitted, for the Hazard Mitigation Grant Program (HMGP) – COVID-19 (DR-4486).**

I will be sending out the Agenda prior to the meeting.

Please note, this will be a virtual meeting and the meeting instructions are given below. Feel free to forward this invite, to whoever you think should be attending.

I apologize for the short notice and any inconvenience this might have caused.

I appreciate your help with this. Thanks.

Smita

**Smita Ambadi, AICP, LEED AP, SCPM**  
Principal Planner, Planning Division,  
Pinellas County Housing and Community Development  
310 Court Street,  
Clearwater, FL 33756  
*Direct: (727) 464-8221*  
*Main: (727) 464-8200*  
[sambadi@pinellascounty.org](mailto:sambadi@pinellascounty.org)

## **MEETING INSTRUCTIONS**

Cynthia Watkins is inviting you to a scheduled Zoom meeting.

### **Join Zoom Meeting**

<https://us02web.zoom.us/j/84476699499?pwd=bHF5L1YvRkJEFTIXb0xTSXB6QncyUT09>

**Meeting ID: 844 7669 9499**

**Passcode: 610234**

One tap mobile

+13126266799,,84476699499#,,,,\*610234# US (Chicago)

+16469313860,,84476699499#,,,,\*610234# US

Dial by your location

+1 312 626 6799 US (Chicago)

+1 646 931 3860 US

+1 929 205 6099 US (New York)

+1 301 715 8592 US (Washington DC)

+1 564 217 2000 US

+1 669 444 9171 US

+1 669 900 6833 US (San Jose)

+1 253 215 8782 US (Tacoma)

+1 346 248 7799 US (Houston)

+1 386 347 5053 US

Meeting ID: 844 7669 9499

Passcode: 610234

Find your local number: <https://us02web.zoom.us/j/84476699499>



## Ambadi, Smita

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**From:** Ambadi, Smita  
**Sent:** Thursday, September 1, 2022 4:52 PM  
**To:** Abigail Lloyd; Adam Colby; Aleksandra Mugenski; Alexis Ferguson; All Children's Hospital Larry Green; Amber Boulding; angela.allen@dot.state.fl.us; Anita Wang; arocke@largo.com; Ashley Bernal; Ashley Tharp; B J Gavin; Barbara Colucci; Bayfront Medical Center Glenn Baker; Bayfront Medical Center Roger Fournier; bdhonau@myindianshores.com; Beim, Donna J; Bell, Pam L; Bill Blair; Bill Krajewski; Bill Palmer; Black, Laura; Bolling, Libby; Borries, Joseph G; Brandi Gabbard; Brandon Berry; Brandon Henry; Brian Eells; Brian Lowack; Bridgexp@aol.com; Bruce Beckert; Bruce Cooper; Bryan.Scanlon@hcahealthcare.com; Calvin Warren; campbellm@kennethcityfl.org; Captain Nick Lazaris; Cara W Sara; Carlos Frey ; Carnahan, Elizabeth (Libby); Carol Clarke; Carol Stricklin; Carolyn Reginelli; Catherine Perkins; CEnnest@bayareadki.com; ceofficer@townofnorthredingtonbeach.com; Cheryl Collier Reed; Chris Dailey; Chris Moore; Chris Niforatos; Chris Simoniello; Chris Zambito; Christina Hummel; Cinda Krouk; Cindy Margiotta; Clint Belk; Cody Johnson; Colleen Olson; comdist3@townofredingtonshores.com; Craig Misener; cstreicher@mygulfport.us; dannette@frla.org; Danny Hinson; Danny Taylor; Darin Cushing; David Leihman; David Mixson; Dean Scharmen; Debra Sullivan; depclerk@townofredingtonshores.com; deputyclerk@townofnorthredingtonbeach.com; deputyclerk@townofredingtonbeach.com; Dereck Reaves; Detweiler, Michelle; Doherty, Heather; Don Lewis; doneal@madeirabeachfl.gov; earl.gloster@myclearwater.com; Elizabeth Macofske; Erica Lindquist; Evan Johnson; Fire Chief Jim Kilpatrick; Fire Marshal; firechief@mysouthpasadena.com; Florida Hospital North Pinellas (Helen Ellis) Daniel Greive; Frank Malowany; gabriela.vigo@fema.dhs.gov; Gaby Placido; Gary; gberkheimer@pinellas-park.com; gengel@mygulfport.us; Georges Gonzalez; Glen Richardson; Grace Hirigoyen; Grace.Jacobsen@stpete.org; Graham Joseph; Gregg Lauda; Gregg Silliman; Guy Van Asten; Hammer Levy, Kelli; Hank Hodde; Harvey, Gina A; Heather Burford; Heather Sobush; henrye@hillsboroughcounty.org; Ivy Drexler; Jake Holehouse; Jamie Vivieros; Jason R. Nordin; Jason Schwabe; jason.martino@aaapp.org; Jeff Shooobridge; Jenny Rowan; Jeremy Sidlauskas; Jevon Graham; Jocilyn Martinez; Joel Brown; John (John@winfl.com); John Ondrovic; john.nicely@baycare.org; Jose.Bueno@redcross.org; Joseph DiPasqua; Joseph Pennino, MPP; Karen Paulson; Katherine Bleakly; Kathryn Younkin; Kathy Gademer; Kelli Reddick; Kelli Thurson; Kelly Cisarik; Kelly Hale; Kelly Intzes; Ken Jacobs; Kevin Powell; Khan Boupaha; Kimberly Williams; Kindred Healthcare Debra Plummer; Kyle Riefler; Largo Medical Center - 14th St Campus Adam Brett; Largo Medical Center - 14th St Campus Jon Ashford; Largo Medical Center - Indian Rocks Rd Campus Tom Smith; Laura Thomas; Leigh Lac ; Linda Portal; Lisa Foster; logan.smith@stpete.org; Lt. Tom Brennan; Luke Curtis; Lynn Rosetti; Madhosingh-Hector, Ramona; Mandi Clark; Marjaa Bell; Mark Griffin; mark.hendrickson@redcross.org; Matthew Woodham; Maxine Moore; mdauphinais@myoldsmar.com; Megan Araya, CFM; Megan Orlando; Megan Wepfer; Melanie Grillone; mely@myseminole.com; mgreen@myindianshores.com; Michael Davis; Michael Ferguson; Michael.Perry@stpete.org; Mike Knotek; mkoutsoftas@mytreasureisland.org; Morton Plant/Mease Hospital Dirk Palmer; Mstenmark@cityofsafetyharbor.com; mtaylor@mygulfport.us; Natalie Gass; Neal Mazzei; Nicole Dufva; Noralvys Hancock; Northside Hospital Charles Hunt; Northside Hospital Fred Norton; Palms of Pasadena Hospital Chuck Giorgio; Parks, Jeff; Patricia McNeese; Patti Squires; Pete Cavalli; Petya Getsova ; Philip Murphy; Renea Vincent; Rhonda Bowman; Richard Perez; Rives, Lynn; Rodney Due; rrobertson@ctsfl.us; rschmader@belleairbluffs-fl.gov; rtwalker@pinellascounty.org; Russell Ferlita; Sam Ball; Sarah.Kessler@myclearwater.com; SBoisvert@pinellas-park.com; Schlatterer, Brett; Scott Crawford; Scott M Swearengen (sswearengen@co.pinellas.fl.us); Scott Young (syoun@tsfr.us); scott.ehlers@myclearwater.com; scroghams@kennethcityfl.org; Sheila Scolaro; Sheldon Hershman; Shrimatee Ojah Maharaj; Smita Ambadi; Soltau, Steve; Spencer Shaw; St. Anthony's Hospital Otis Gatewood, JR; St. Petersburg General Hospital Chuck Shuff; St. Petersburg General Hospital Robert Conroy Jr.; Stephanie Hendricks; Stephen Tetlak; Steven Clark; Summer Mahr; Susan Portal; Talhouk, David A; Tatiana

**To:** Childress; Terri Sullivan; thillier@pinellas-park.com ; tjamison@elfr.org; Tom Menke; Tom Scofield; townclerk@townofnorthredingtonbeach.com; townclerk@townofredingtonbeach.com; townclerk@townofredingtonshores.com; Tracie Ryan; tracy@fmsbuildingdepartment.com; Van Austen; vicki.russo@yahoo.com; Vince Tenaglia; Walter Inman; Waunda Henry; Wesley Wright; William Twaite

**Subject:** 2022 LMS Annual Update

**Attachments:** PINELLAS LMS ROSTER 2022-2023 Aug 30 2022.xlsx; TABLE A-2 MUNICIPAL OUTREACH MATRIX Jan 19 2022.xlsx; TABLE D-1 MITIGATION INITIATIVES Aug 10 2022.xlsx; TABLE D-2 ACCOMPLISHMENTS Jan 19 2022.xlsx; BLANK Project Scoring Sheet.xlsx

Good afternoon everyone,

We are starting with our **2022 - 2023 Local Mitigation Strategy (LMS) Annual Update** process. Please find attached, the related documents.

I request your help in updating these documents listed below:

1. **LMS Working Group Roster;**
  2. **Table A-2 Municipal Outreach Matrix;**
  3. **Table D-1 Mitigation Initiatives;**
  4. **Table D-2 Accomplishments;** and
  5. **Blank Scoring Sheet – to be filled out for each new project** that you are requesting to add to Table D-1.
- Please review the spreadsheets and update them as needed. **Once you are done updating, [please email them back to me](#). I would appreciate, if you could send me all updated documents by **November 30, 2022**.**  
In case you have any questions and/or need additional time, please let me know. I would be happy to help you with this. We also have an opportunity at the **next LMS Working Group Meeting – Oct. 5<sup>th</sup>**, to go over any questions that you might have.
  - **LMS Working Group Roster**  
The LMS Roster has been updated based on the requests that I have received so far. Let me know if I missed out anything. Also I would appreciate, if you could share the roster with whoever might be interested in joining our LMS Working Group.
  - **FY 2022 Building Resilient Infrastructure and Communities (BRIC)**  
Just a reminder about the FY 2022 BRIC grant program. If you are planning to apply for BRIC this year, and if your project is not currently in the LMS Table D-1, please let me know. I can work with you to get started on this process. This request can be presented to the LMS Working Group at the Oct 5<sup>th</sup> meeting, which if approved, will enable you to meet the **BRIC deadline - November 14<sup>th</sup>**.

Please let me know, if you have any questions or concerns.

As always, thank you for your help with this!

Smita

**Smita Ambadi, AICP, LEED AP, SCPM**  
Principal Planner, Planning Division,  
Pinellas County Housing and Community Development  
310 Court Street,  
Clearwater, FL 33756  
*Direct: (727) 464-8221*  
*Main: (727) 464-8200*

## Ambadi, Smita

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**Subject:** LMS Working Group Meeting  
**Location:** Virtual Meeting Via Zoom (Webinar Instructions Attached)

**Start:** Wed 10/12/2022 1:30 PM  
**End:** Wed 10/12/2022 3:00 PM  
**Show Time As:** Tentative

**Recurrence:** (none)

**Meeting Status:** Not yet responded

**Organizer:** Ambadi, Smita

**Required Attendees** Abigail Lloyd; Adam Colby; Aleksandra Mugenski; Alexis Fergusen; All Children's Hospital Larry Green; Amber Boulding; Anita Wang; arocke@largo.com; Ashley Bernal; Ashley Tharp; B J Gavin; Barbara Colucci; Bayfront Medical Center Glenn Baker; Bayfront Medical Center Roger Fournier; bdhonau@myindianshores.com; Beim, Donna J; Bell, Pam L; Bill Blair; Bill Krajewski; Bill Palmer; Bolling, Libby; Borries, Joseph G; Brandi Gabbard; Brandon Berry; Brandon Henry; Brian Eells; Bridgexp@aol.com; Bruce Beckert; Bruce Cooper; Bryan.Scanlon@hcahealthcare.com; Calvin Warren; campbellm@kennethcityfl.org; Captain Nick Lazaris; Cara W Sara; Carlos Frey ; Carnahan, Elizabeth (Libby); Carol Clarke; Carolyn Reginelli; CEnnest@bayareadki.com; ceofficer@townofnorthredingtonbeach.com; Cheryl Collier Reed; Chris Dailey; Chris Simoniello; Cinda Krouk; Cindy Margiotta; Clint Belk; Cody Johnson; Colleen Olson; comdist3 @townofredingtonshores.com; Craig Misener; cstreicher@mygulfport.us; dannette@frla.org; Danny Hinson; Danny Taylor; Darin Cushing; David Leihman; David Mixson; Dean Scharmen; Debra Sullivan; depclerk@townofredingtonshores.com; deputyclerk@townofnorthredingtonbeach.com; deputyclerk@townofredingtonbeach.com; Dereck Reaves; Detweiler, Michelle; Doherty, Heather; Don Lewis; doneal@madeirabeachfl.gov; earl.gloster@myclearwater.com; Elizabeth Macofske; Erica Lindquist; Fire Chief Jim Kilpatrick; Fire Marshal; firechief@mysouthpasadena.com; Florida Hospital North Pinellas (Helen Ellis) Daniel Greive; Frank Malowany; gabriela.vigo@fema.dhs.gov; Gaby Placido; Gary; gberkheimer@pinellas-park.com; gengel@mygulfport.us; Georges Gonzalez; Glen Richardson; Grace Hirigoyen; Grace.Jacobsen@stpete.org; Graham Joseph; Gregg Lauda; Gregg Silliman; Guy Van Asten; Hank Hodde; Harvey, Gina A; Heather Burford; Heather Sobush; henrye@hillsboroughcounty.org; Ivy Drexler; Jake Holehouse; Jamie Vivieros; Jason R. Nordin; Jason Schwabe; jason.martino@aaapp.org; Jeff Shoobridge; Jenny Rowan; Jeremy Sidlauskas; Jevon Graham; Jocilyn Martinez; Joel Brown; John (John@winfl.com); John Ondrovic; john.nicely@baycare.org; Jose.Bueno@redcross.org; Joseph DiPasqua; Joseph Pennino, MPP; Karen Paulson; Katherine Bleakly; Kathryn Younkin; Kathy Gademer; Kelli Reddick; Kelli Thurson; Kelly Cisarik; Kelly Hale; Kelly Intzes; Ken Jacobs; Kevin Powell; Kimberly Williams; Kindred Healthcare Debra Plummer; Kyle Riefler; Largo Medical Center - 14th St Campus Adam Brett; Largo Medical Center - 14th St Campus Jon Ashford; Largo Medical Center - Indian Rocks Rd Campus Tom Smith; Laura Thomas; Leigh Lac ; Linda Portal; Lisa Foster; logan.smith@stpete.org; Lt. Tom Brennan; Luke Curtis; Lynn Rosetti; Madhosingh-Hector, Ramona; Mandi Clark; Marjaa Bell; Mark Griffin; mark.hendrickson@redcross.org; Matthew Woodham; Maxine Moore; mdauphinais@myoldsmar.com; Megan Araya, CFM; Megan Orlando; Megan Wepfer; Melanie Grillone; mely@myseminole.com; mgreen@myindianshores.com; Michael Davis; Michael Ferguson; Michael.Perry@stpete.org; Mike Knotek; mkoutsoftas@mytreasureisland.org; Monica Martin; Morton Plant/Mease Hospital Dirk Palmer; Mstenmark@cityofsafetyharbor.com; mtaylor@mygulfport.us; Natalie Gass; Neal Mazzei; Nicole Dufva; Noralvys Hancock; Northside Hospital Charles Hunt; Northside Hospital Fred Norton; Palms of Pasadena Hospital Chuck Giorgio; Parks, Jeff; Patricia McNeese; Patti Squires; Pete Cavalli; Petya Getsova ; Philip Murphy; Renea Vincent; Rhonda Bowman;

**Required Attendees** Richard Perez; Rives, Lynn; Rodney Due; rrobertson@ctsfl.us; rschmader@belleairbluffs-fl.gov; rtwalker@pinellascounty.org; Russell Ferlita; Sam Ball; Sarah.Kessler@myclearwater.com; SBoisvert@pinellas-park.com; Schlatterer, Brett; Scott Crawford; Scott M Swearengen (sswearengen@co.pinellas.fl.us); Scott Young (syoung@tsfr.us); scott.ehlers@myclearwater.com; scroghams@kennethcityfl.org; Sheila Scolaro; Sheldon Hershman; Shrimatee Ojah Maharaj; Smita Ambadi; Soltau, Steve; Spencer Shaw; St. Anthony's Hospital Otis Gatewood, JR; St. Petersburg General Hospital Chuck Shuff; St. Petersburg General Hospital Robert Conroy Jr.; Stephanie Hendricks; Stephen Tetlak; Steven Clark; Summer Mahr; Susan Portal; Talhouk, David A; Tatiana Childress; Terri Sullivan; thillier@pinellas-park.com ; tjamison@elfr.org; Tom Menke; Tom Scofield; townclerk@townofnorthredingtonbeach.com; townclerk@townofredingtonbeach.com; townclerk@townofredingtonshores.com; Tracie Ryan; tracy@fmsbuildingdepartment.com; Van Austen; vicki.russo@yahoo.com; Vince Tenaglia; Walter Inman; Waunda Henry; Wesley Wright

**Optional Attendees:** Aborizk, Angela; Perkins, Cathie; Hammer Levy, Kelli; Stricklin, Carol L; Johnson, Evan; Swearengen, Scott M; Moore, Christopher D; Lowack, Brian; Troy Salisbury; Christina Hummel; Zambito, Chris; William Twaite; Khansith Boupfa, PE, GISP; Smith, Derek; Schoel, Daniel; Collins, Fredricka; Niforatos, Chris; Angela Y. Miller; Brejesh Prayman; Raul Quintana; Jackson, James I

## Local Mitigation Strategy - Working Group Meeting

### Wednesday, Oct. 12th 1:30 PM to 3:00 PM

Please note, considering that some of our team members are still involved with the post-storm recovery work, the Oct. 5<sup>th</sup> LMS Working Group meeting is being rescheduled to Oct. 12<sup>th</sup>. This will be a virtual meeting.

I will be sending out the meeting agenda prior to this meeting. The webinar instructions for attending this meeting are given below.

#### WEBINAR INSTRUCTIONS

Cynthia Watkins is inviting you to a scheduled Zoom meeting.

**Topic: LMS Working Group Meeting**

**Time: Oct 12, 2022 01:30 PM Eastern Time (US and Canada)**

**Join Zoom Meeting**

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+1 719 359 4580 US

+1 253 215 8782 US (Tacoma)

+1 346 248 7799 US (Houston)

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+1 669 444 9171 US

Meeting ID: 884 7310 0165

Passcode: 347093

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Thanks,

Smita

**Smita Ambadi, AICP, LEED AP, SCPM**

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[sambadi@pinellascounty.org](mailto:sambadi@pinellascounty.org)

## Ambadi, Smita

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**From:** Ambadi, Smita  
**Sent:** Wednesday, October 12, 2022 8:55 AM  
**To:** Abigail Lloyd; Adam Colby; Aleksandra Mugenski; Alexis Ferguson; All Children's Hospital Larry Green; Amber Boulding; angela.allen@dot.state.fl.us; Anita Wang; arocke@largo.com; Ashley Bernal; Ashley Tharp; B J Gavin; Barbara Colucci; Bayfront Medical Center Glenn Baker; Bayfront Medical Center Roger Fournier; bdhonau@myindianshores.com; Beim, Donna J; Bell, Pam L; Bill Blair; Bill Krajewski; Bill Palmer; Black, Laura; Bolling, Libby; Borries, Joseph G; Brandi Gabbard; Brandon Berry; Brandon Henry; Brian Eells; Brian Lowack; Bridgexp@aol.com; Bruce Beckert; Bruce Cooper; Bryan.Scanlon@hcahealthcare.com; Calvin Warren; campbellm@kennethcityfl.org; Captain Nick Lazaris; Cara W Sara; Carlos Frey ; Carnahan, Elizabeth (Libby); Carol Clarke; Carol Stricklin; Carolyn Reginelli; Catherine Perkins; Cecilia Chen; CEnnest@bayareadki.com; ceofficer@townofnorthredingtonbeach.com; Cheryl Collier Reed; Chris Dailey; Chris Moore; Chris Niforatos; Chris Simoniello; Chris Zambito; Christina Hummel; Cinda Krouk; Cindy Margiotta; Clint Belk; Cody Johnson; Colleen Olson; comdist3@townofredingtonshores.com; Craig Misener; cstreicher@mygulfport.us; dannette@frla.org; Danny Hinson; Danny Taylor; Darin Cushing; David Leihman; David Mixson; Dean Scharmen; Debra Sullivan; depclerk@townofredingtonshores.com; deputyclerk@townofnorthredingtonbeach.com; deputyclerk@townofredingtonbeach.com; Dereck Reaves; Detweiler, Michelle; Doherty, Heather; Don Lewis; doneal@madeirabeachfl.gov; earl.gloster@myclearwater.com; Elizabeth Macofske; Erica Lindquist; Evan Johnson; Fire Chief Jim Kilpatrick; Fire Marshal; firechief@mysouthpasadena.com; Florida Hospital North Pinellas (Helen Ellis) Daniel Greive; Frank Malowany; gabriela.vigo@fema.dhs.gov; Gaby Placido; Gary; gberkheimer@pinellas-park.com; gengel@mygulfport.us; Georges Gonzalez; Glen Richardson; Grace Hirigoyen; Grace.Jacobsen@stpete.org; Graham Joseph; Gregg Lauda; Gregg Silliman; Guy Van Asten; Hammer Levy, Kelli; Hank Hodde; Harvey, Gina A; Heather Burford; Heather Sobush; henrye@hillsboroughcounty.org; Ivy Drexler; Jake Holehouse; Jamie Vivieros; Jason R. Nordin; Jason Schwabe; jason.martino@aaapp.org; Jeff Shooobridge; Jenny Rowan; Jeremy Sidlauskas; Jevon Graham; Jocilyn Martinez; Joel Brown; John (John@winfl.com); John Ondrovic; john.nicely@baycare.org; Jose.Bueno@redcross.org; Joseph DiPasqua; Joseph Pennino, MPP; Karen Paulson; Katherine Bleakly; Kathryn Younkin; Kathy Gademer; Kelli Reddick; Kelli Thurson; Kelly Cisarik; Kelly Hale; Kelly Intzes; Ken Jacobs; Kevin Powell; Khan Boupaha; Kimberly Williams; Kindred Healthcare Debra Plummer; Kyle Riefler; Largo Medical Center - 14th St Campus Adam Brett; Largo Medical Center - 14th St Campus Jon Ashford; Largo Medical Center - Indian Rocks Rd Campus Tom Smith; Laura Thomas; Leigh Lac ; Linda Portal; Lisa Foster; logan.smith@stpete.org; Lt. Tom Brennan; Luke Curtis; Lynn Rosetti; Madhosingh-Hector, Ramona; Mandi Clark; Marjaa Bell; Mark Griffin; mark.hendrickson@redcross.org; Matthew Woodham; Maxine Moore; mdauphinais@myoldsmar.com; Megan Araya, CFM; Megan Orlando; Megan Wepfer; Melanie Grillone; mely@myseminole.com; mgreen@myindianshores.com; Michael Davis; Michael Ferguson; Michael.Perry@stpete.org; Mike Knotek; mkoutsoftas@mytreasureisland.org; Monica Martin; Morton Plant/Mease Hospital Dirk Palmer; Mstenmark@cityofsafetyharbor.com; mtaylor@mygulfport.us; Natalie Gass; Neal Mazzei; Nicole Dufva; Noralvys Hancock; Northside Hospital Charles Hunt; Northside Hospital Fred Norton; Palms of Pasadena Hospital Chuck Giorgio; Parks, Jeff; Patricia McNeese; Patti Squires; Pete Cavalli; Petya Getsova ; Philip Murphy; Renea Vincent; Rhonda Bowman; Richard Perez; Rives, Lynn; Rodney Due; rrobertson@ctsfl.us; rschmader@belleairbluffs-fl.gov; rtwalker@pinellascounty.org; Russell Ferlita; Sam Ball; Sarah.Kessler@myclearwater.com; SBoisvert@pinellas-park.com; Schlatterer, Brett; Scott Crawford; Scott M Swearengen (sswearengen@co.pinellas.fl.us); Scott Young (syoun@tsfr.us); scott.ehlers@myclearwater.com; scroghams@kennethcityfl.org; Sheila Scolaro; Sheldon Hershman; Shrimatee Ojah Maharaj; Smita Ambadi; Soltau, Steve; Spencer Shaw; St. Anthony's Hospital Otis Gatewood, JR; St. Petersburg General Hospital Chuck Shuff; St. Petersburg General Hospital Robert Conroy Jr.; Stephanie Hendricks; Stephen Tetlak; Steven Clark; Summer Mahr; Susan Portal; Talhouk, David A; Tatiana

**To:** Childress; Terri Sullivan; thillier@pinellas-park.com ; tjamison@elfr.org; Tom Menke; Tom Scofield; townclerk@townofnorthredingtonbeach.com; townclerk@townofredingtonbeach.com; townclerk@townofredingtonshores.com; Tracie Ryan; tracy@fmsbuildingdepartment.com; Troy Salisbury; Van Austen; vicki.russo@yahoo.com; Vince Tenaglia; Walter Inman; Waunda Henry; Wesley Wright; William Twaite

**Subject:** MEETING REMINDER - Today's LMS Working Group Meeting

**Attachments:** LMS WG - AGENDA & MEETING MINUTES - OCT 12 2022.pdf

Good morning everyone,

This is a reminder for **today's LMS Working Group Meeting at 1:30 PM**. Please find attached, the Agenda for today's meeting.

This meeting will be a **virtual meeting**. Please feel free to forward the meeting invite, to whoever you think should attend.

Please let me know if you have any questions.

Thanks.

Smita

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## Ambadi, Smita

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**From:** Ambadi, Smita  
**Sent:** Friday, October 28, 2022 3:47 PM  
**To:** Abigail Lloyd; Adam Colby; Aleksandra Mugenski; Alexis Ferguson; All Children's Hospital Larry Green; Amber Boulding; angela.allen@dot.state.fl.us; Anita Wang; arocke@largo.com; Ashley Bernal; Ashley Tharp; B J Gavin; Barbara Colucci; Bayfront Medical Center Glenn Baker; Bayfront Medical Center Roger Fournier; bdhonau@myindianshores.com; Beim, Donna J; Bell, Pam L; Bill Blair; Bill Krajewski; Bill Palmer; Black, Laura; Bolling, Libby; Borries, Joseph G; Brandi Gabbard; Brandon Berry; Brandon Henry; Brian Eells; Brian Lowack; Bridgexp@aol.com; Bruce Beckert; Bruce Cooper; Bryan.Scanlon@hcahealthcare.com; Calvin Warren; campbellm@kennethcityfl.org; Captain Nick Lazaris; Cara W Sara; Carlos Frey ; Carnahan, Elizabeth (Libby); Carol Clarke; Carol Stricklin; Carolyn Reginelli; Catherine Perkins; Cecilia Chen; CEnnest@bayareadki.com; ceofficer@townofnorthredingtonbeach.com; Cheryl Collier Reed; Chris Dailey; Chris Moore; Chris Niforatos; Chris Simoniello; Chris Zambito; Christina Hummel; Cinda Krouk; Cindy Margiotta; Clint Belk; Cody Johnson; Colleen Olson; comdist3@townofredingtonshores.com; Craig Misener; cstreicher@mygulfport.us; dannette@fmla.org; Danny Hinson; Danny Taylor; Darin Cushing; David Leihman; David Mixson; Dean Scharmen; Debra Sullivan; depclerk@townofredingtonshores.com; deputyclerk@townofnorthredingtonbeach.com; deputyclerk@townofredingtonbeach.com; Dereck Reaves; Detweiler, Michelle; Doherty, Heather; Don Lewis; doneal@madeirabeachfl.gov; earl.gloster@myclearwater.com; Elizabeth Macofske; Erica Lindquist; Evan Johnson; Fire Chief Jim Kilpatrick; Fire Marshal; firechief@mysouthpasadena.com; Florida Hospital North Pinellas (Helen Ellis) Daniel Greive; Frank Malowany; gabriela.vigo@fema.dhs.gov; Gaby Placido; Gary; gberkheimer@pinellas-park.com; gengel@mygulfport.us; Georges Gonzalez; Glen Richardson; Grace Hirigoyen; Grace.Jacobsen@stpete.org; Graham Joseph; Gregg Lauda; Gregg Silliman; Guy Van Asten; Hammer Levy, Kelli; Hank Hodde; Harvey, Gina A; Heather Burford; Heather Sobush; henrye@hillsboroughcounty.org; Ivy Drexler; Jake Holehouse; Jamie Vivieros; Jason R. Nordin; Jason Schwabe; jason.martino@aaapp.org; Jeff Shooobridge; Jenny Rowan; Jeremy Sidlauskas; Jevon Graham; Jocilyn Martinez; Joel Brown; John (John@winfl.com); John Ondrovic; john.nicely@baycare.org; Jose.Bueno@redcross.org; Joseph DiPasqua; Joseph Pennino, MPP; Karen Paulson; Katherine Bleakly; Kathryn Younkin; Kathy Gademer; Kelli Reddick; Kelli Thurson; Kelly Cisarik; Kelly Hale; Kelly Intzes; Ken Jacobs; Kevin Powell; Khan Boupaha; Kimberly Williams; Kindred Healthcare Debra Plummer; Kyle Riefler; Largo Medical Center - 14th St Campus Adam Brett; Largo Medical Center - 14th St Campus Jon Ashford; Largo Medical Center - Indian Rocks Rd Campus Tom Smith; Laura Thomas; Leigh Lac ; Linda Portal; Lisa Foster; logan.smith@stpete.org; Lt. Tom Brennan; Luke Curtis; Lynn Rosetti; Madhosingh-Hector, Ramona; Mandi Clark; Marjaa Bell; Mark Griffin; mark.hendrickson@redcross.org; Matthew Woodham; Maxine Moore; mdauphinais@myoldsmar.com; Megan Araya, CFM; Megan Orlando; Megan Wepfer; Melanie Grillone; mely@myseminole.com; mgreen@myindianshores.com; Michael Davis; Michael Ferguson; Michael.Perry@stpete.org; Mike Knotek; mkoutsoftas@mytreasureisland.org; Monica Martin; Morton Plant/Mease Hospital Dirk Palmer; Mstenmark@cityofsafetyharbor.com; mtaylor@mygulfport.us; Natalie Gass; Neal Mazzei; Nicole Dufva; Noralvys Hancock; Northside Hospital Charles Hunt; Northside Hospital Fred Norton; Palms of Pasadena Hospital Chuck Giorgio; Parks, Jeff; Patricia McNeese; Patti Squires; Pete Cavalli; Petya Getsova ; Philip Murphy; Renea Vincent; Rhonda Bowman; Richard Perez; Rives, Lynn; Rodney Due; rrobertson@ctsfl.us; rschmader@belleairbluffs-fl.gov; rtwalker@pinellascounty.org; Russell Ferlita; Sam Ball; Sarah.Kessler@myclearwater.com; SBoisvert@pinellas-park.com; Schlatterer, Brett; Scott Crawford; Scott M Swearengen (sswearengen@co.pinellas.fl.us); Scott Young (syoun@tsfr.us); scott.ehlers@myclearwater.com; scroghams@kennethcityfl.org; Sheila Scolaro; Sheldon Hershman; Shrimatee Ojah Maharaj; Smita Ambadi; Soltau, Steve; Spencer Shaw; St. Anthony's Hospital Otis Gatewood, JR; St. Petersburg General Hospital Chuck Shuff; St. Petersburg General Hospital Robert Conroy Jr.; Stephanie Hendricks; Stephen Tetlak; Steven Clark; Summer Mahr; Susan Portal; Talhouk, David A; Tatiana



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**Subject:** FW: Ian HMGP Resources  
**Attachments:** HMGP DR-4673 Timeline.pdf; FDEM Mitigation Hurricane Ian Resident Infographic (Pinellas).pdf

Good afternoon everyone,

Please see below, State's email regarding HMGP DR-4673 Ian. **Please note, the Notice of Funding Availability hasn't been released yet. This email only provides an estimated timeline for this HMGP.**

Also attached is a copy of the timeline and a flyer for residents, in case there are questions regarding this HMGP. The WebEOC's Info Message number as provided by the State is #541.

Thanks,

Smita

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**From:** Laura Dhuwe <Laura.Dhuwe@em.myflorida.com>  
**Sent:** Friday, October 28, 2022 12:52 PM  
**Cc:** Jared Jaworski <Jared.Jaworski@em.myflorida.com>; Kristin Lentz <Kristin.Lentz@em.myflorida.com>; Laura Dhuwe <Laura.Dhuwe@em.myflorida.com>  
**Subject:** Ian HMGP Resources

**CAUTION:** *This message has originated from outside of the organization. **Do not** click on links or open attachments unless you are expecting the correspondence from the sender and know the content is safe.*

Good Afternoon All,

Attached is the estimated timeline for DR-4673 Ian HMGP. I've also copied it below.

Additionally, I've attached the flyers for residents related to HMGP. There is one for each declared county (I'm sending this email to all counties so everyone is aware of the timeline). These have been provided to FEMA staff within your county to ensure that there is one unified message being provided to residents about HMGP in Florida. These are also in WebEOC in Info Message # To be clear, each jurisdiction has the authority to decide whether or not they will pursue residential projects under HMGP. At the state, we direct residents to the county LMS contact because we do not know

your priorities and capabilities as well as you do and certainly do not want to promise a resident they can apply if your jurisdiction has no intention of applying on their behalf.

Please reach out to [Jared.Jaworski@em.myflorida.com](mailto:Jared.Jaworski@em.myflorida.com) or [Kristin.Lentz@em.myflorida.com](mailto:Kristin.Lentz@em.myflorida.com) with any questions.

Thank you,





**Laura Dhuwe | Chief of Mitigation**

State Hazard Mitigation Officer | Bureau of Mitigation

Florida Division of Emergency Management

Phone: (850) 879-0872

[Laura.Dhuwe@em.myflorida.com](mailto:Laura.Dhuwe@em.myflorida.com)

Under Florida law, correspondence with the Florida Division of Emergency Management concerning agency business that is neither confidential nor exempt pursuant to Florida Statutes is a public record and will be made available to the public upon request.

## Ambadi, Smita

---

**From:** Ambadi, Smita  
**Sent:** Wednesday, November 30, 2022 9:15 AM  
**To:** Abigail Lloyd; Adam Colby; Aleksandra Mugenski; Alexis Ferguson; All Children's Hospital Larry Green; Amber Boulding; angela.allen@dot.state.fl.us; Anita Wang; arocke@largo.com; Ashley Bernal; Ashley Tharp; B J Gavin; Barbara Colucci; Bayfront Medical Center Glenn Baker; Bayfront Medical Center Roger Fournier; bdhonau@myindianshores.com; Beim, Donna J; Bell, Pam L; Bill Blair; Bill Krajewski; Bill Palmer; Black, Laura; Bolling, Libby; Borries, Joseph G; Brandi Gabbard; Brandon Berry; Brandon Henry; Brian Eells; Brian Lowack; Bridgexp@aol.com; Bruce Beckert; Bruce Cooper; Bryan.Scanlon@hcahealthcare.com; Calvin Warren; campbellm@kennethcityfl.org; Captain Nick Lazaris; Cara W Sara; Carlos Frey ; Carnahan, Elizabeth (Libby); Carol Clarke; Carol Stricklin; Carolyn Reginelli; Catherine Perkins; Cecilia Chen; CEnnest@bayareadki.com; ceofficer@townofnorthredingtonbeach.com; Cheryl Collier Reed; Chris Dailey; Chris Moore; Chris Niforatos; Chris Simoniello; Chris Zambito; Christina Hummel; Cinda Krouk; Cindy Margiotta; Clint Belk; Cody Johnson; Colleen Olson; comdist3@townofredingtonshores.com; Craig Misener; cstreicher@mygulfport.us; dannette@fmla.org; Danny Hinson; Danny Taylor; Darin Cushing; David Leihman; David Mixson; Dean Scharmen; Debra Sullivan; depclerk@townofredingtonshores.com; deputyclerk@townofnorthredingtonbeach.com; deputyclerk@townofredingtonbeach.com; Dereck Reaves; Detweiler, Michelle; Doherty, Heather; Don Lewis; doneal@madeirabeachfl.gov; earl.gloster@myclearwater.com; Elizabeth Macofsky; Erica Lindquist; Evan Johnson; Fire Chief Jim Kilpatrick; Fire Marshal; firechief@mysouthpasadena.com; Florida Hospital North Pinellas (Helen Ellis) Daniel Greive; Frank Malowany; gabriela.vigo@fema.dhs.gov; Gaby Placido; Gary; gberkheimer@pinellas-park.com; gengel@mygulfport.us; Georges Gonzalez; Glen Richardson; Grace Hirigoyen; Grace.Jacobsen@stpete.org; Graham Joseph; Gregg Lauda; Gregg Silliman; Guy Van Asten; Hammer Levy, Kelli; Hank Hodde; Harvey, Gina A; Heather Burford; Heather Sobush; henrye@hillsboroughcounty.org; Ivy Drexler; Jake Holehouse; Jamie Vivieros; Jason R. Nordin; Jason Schwabe; jason.martino@aaapp.org; Jeff Shoobridge; Jenny Rowan; Jeremy Sidlauskas; Jevon Graham; Jocilyn Martinez; Joel Brown; John (John@winfl.com); John Ondrovic; john.nicely@baycare.org; Jose.Bueno@redcross.org; Joseph DiPasqua; Joseph Pennino, MPP; Karen Paulson; Katherine Bleakly; Kathryn Younkin; Kathy Gademer; Kelli Reddick; Kelli Thurson; Kelly Cisarik; Kelly Hale; Kelly Intzes; Ken Jacobs; Kevin Powell; Khan Boupaha; Kimberly Williams; Kindred Healthcare Debra Plummer; Kyle Riefler; Largo Medical Center - 14th St Campus Adam Brett; Largo Medical Center - 14th St Campus Jon Ashford; Largo Medical Center - Indian Rocks Rd Campus Tom Smith; Laura Thomas; Leigh Lac ; Linda Portal; Lisa Foster; logan.smith@stpete.org; Lt. Tom Brennan; Luke Curtis; Lynn Rosetti; Madhosingh-Hector, Ramona; Mandi Clark; Marjaa Bell; Mark Griffin; mark.hendrickson@redcross.org; Matthew Woodham; Maxine Moore; mdauphinais@myoldsmar.com; Megan Araya, CFM; Megan Orlando; Megan Wepfer; Melanie Grillone; mely@myseminole.com; mgreen@myindianshores.com; Michael Davis; Michael Ferguson; Michael.Perry@stpete.org; Mike Knotek; mkoutsoftas@mytreasureisland.org; Monica Martin; Morton Plant/Mease Hospital Dirk Palmer; Mstenmark@cityofsafetyharbor.com; mtaylor@mygulfport.us; Natalie Gass; Neal Mazzei; Nicole Dufva; Noralvys Hancock; Northside Hospital Charles Hunt; Northside Hospital Fred Norton; Palms of Pasadena Hospital Chuck Giorgio; Parks, Jeff; Patricia McNeese; Patti Squires; Pete Cavalli; Petya Getsova ; Philip Murphy; Renea Vincent; Rhonda Bowman; Richard Perez; Rives, Lynn; Rodney Due; rrobertson@ctsfl.us; rschmader@belleairbluffs-fl.gov; rtwalker@pinellascounty.org; Russell Ferlita; Sam Ball; Sarah.Kessler@myclearwater.com; SBoisvert@pinellas-park.com; Schlatterer, Brett; Scott Crawford; Scott M Swearengen (sswearengen@co.pinellas.fl.us); Scott Young (syoun@tsfr.us); scott.ehlers@myclearwater.com; scroghams@kennethcityfl.org; Sheila Scolaro; Sheldon Hershman; Shrimatee Ojah Maharaj; Smita Ambadi; Soltau, Steve; Spencer Shaw; St. Anthony's Hospital Otis Gatewood, JR; St. Petersburg General Hospital Chuck Shuff; St. Petersburg General Hospital Robert Conroy Jr.; Stephanie Hendricks; Stephen Tetlak; Steven Clark; Summer Mahr; Susan Portal; Talhouk, David A; Tatiana

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**Subject:** LMS Meeting Agenda (Dec. 7th)

**Attachments:** LMS WG - AGENDA & MEETING MINUTES - DEC 7 2022.pdf; TABLE D-1 MITIGATION INITIATIVES Draft 11-29-2022.xlsx; HMGP IRMA Project Priority List 2018.pdf

Good morning everyone,

Please find attached, the following documents for the December 7<sup>th</sup> LMS Working Group Meeting:

1. **Agenda for the upcoming LMS meeting and minutes from the last meeting.**
2. **Updated Table D-1 Mitigation Initiatives (draft)** – Project – Generator Power for Interim EOC (Pinellas Suncoast Fire Rescue).  
Please note, this project is already a part of the Table D-1 and was submitted for HMGP-IRMA Grant funding. The State has requested an updated endorsement letter for this project. Updates made to the project's cost estimate are highlighted in BLUE. This will be presented to the LMS Working Group at the December 7<sup>th</sup> for their review and approval.
3. Also attached is a copy of the **prioritized project list that was submitted for HMGP-IRMA.**

Please let me know if you have any questions.

Thanks and have a great day!

Smita

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## Ambadi, Smita

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**From:** Ambadi, Smita  
**Sent:** Wednesday, January 11, 2023 10:59 AM  
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**To:** Childress; Terri Sullivan; thillier@pinellas-park.com ; tjamison@elfr.org; Todd Best; Tom Menke; Tom Scofield; townclerk@townofnorthredingtonbeach.com; townclerk@townofredingtonbeach.com; townclerk@townofredingtonshores.com; Tracie Ryan; tracy@fmsbuildingdepartment.com; Troy Salisbury; Van Austen; vicki.russo@yahoo.com; Vince Tenaglia; Walter Inman; Waunda Henry; Wesley Wright; William Twaite

**Subject:** 2022-2023 LMS Annual Update - Updated Documents

**Attachments:** PINELLAS LMS ROSTER 2022-2023 1-9-2023.xlsx; TABLE A-2 MUNICIPAL OUTREACH 1-9-2023.xlsx; TABLE D-1 MITIGATION INITIATIVES 1-9-2023.xlsx; TABLE D-2 ACCOMPLISHMENTS 1-9-2023.xlsx

**Categories:** LMS, IMPORTANT

Good morning everyone,

Thank you for all, for your help with the 2022-2023 LMS Annual Update!

Please find attached, the following updated documents:

**1. LMS Working Group Roster**

**2. Table A-2 Municipal Outreach Matrix**

**3. Table D-1 Mitigation Initiatives**

The new projects that are being requested to be added, are highlighted in YELLOW. The Scoring Committee has reviewed the new projects and the Table D-1 has been revised accordingly. The projects that were removed, have been placed under the "Removed Projects" tab within this spreadsheet.

**4. Table D-2 Accomplishments.**

All revisions to the attached LMS spreadsheets have been completed, based on what I have received so far. Please review and let me know, if I missed anything or if you need additional changes. Also let me know, if you have any questions.

**These documents will be presented to the LMS Working Group on Wednesday, January 18<sup>th</sup>.**

Our deadline for submission of the LMS Annual Update is **Tuesday, January 31<sup>st</sup>.**

Thanks again for working me to get this done! Please let me know if you have any questions.

Smita

**Smita Ambadi, AICP, LEED AP, SCPM**

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Pinellas County Housing and Community Development  
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# **Annual Update Requirement**

***Current list of mitigation measures, identifying responsible agency/department, associated funding sources and their estimated costs, and expected timeframes for completion (also referred to as action item list, mitigation initiatives, or prioritized project list)***

## **Supporting documents:**

- APPENDIX D
  - Table D-1 Mitigation Initiatives
  - Table D-2 Accomplishments
  - Table A-1 Countywide Outreach
  - Table A-2 Municipal Outreach Matrix



## **TABLE D-1 MITIGATION INITIATIVES**

Pinellas County  
Local Mitigation Strategy 2022-2023  
Appendix D, Table D-1: Mitigation Initiatives

Total Score	Jurisdiction/ Organization	Project Name	Description/ Natural Hazard Addressed (Key: 1=Flooding; 2=Storm Wind; 3=Erosion; 4=All Hazard)	Est. Cost	Timeframe / Status	Possible Funding Sources	Date Last Reviewed	Updated By
1142	AdventHealth North Pinellas	Building Envelope for Hurricane Hardening	Complete building envelope of hospital facility to withstand hurricane winds/2	\$16,800,000	FY20/21	None. Capital funding through AdventHealth	1/18/2023	Carol Clark
1029	ARC Tampa Bay	The Arc Tampa Bay Long Center Generator	Purchase and installation of a natural gas based 125 kw generator to support approximately 7000 sqare feet, to support the critical health and safety needs of our residents during a hurricane.	\$142,000	Currently Unfunded	HMGP	1/18/2023	
1025	Baycare, Inc. / St. Petersburg	Hospital EOC	Construct new EOC. Estimated completion time: more than 12 months. / 4	\$1,100,000	Currently Unfunded	EMPATF, HMGP; PDM Program	1/18/2023	
1150	Bayfront Medical Center / St. Petersburg	Harden Window Openings - Building A	Harden the exterior of Building A and install new hurricane-rated windows. Estimated completion time: more than 12 months. / 2	\$1,217,370	Currently Unfunded	EMPATF, HMGP; PDM Program	1/18/2023	
1150	Bayfront Medical Center / St. Petersburg	Harden Window and Roof - Building C Center	Harden the exterior including hurricane-rated windows and roofing system to protect against high wind velocity events. Estimated completion time: more than 12 months. / 2	\$2,789,889	Currently Unfunded	EMPATF, HMGP; PDM Program	1/18/2023	
1150	Bayfront Medical Center / St. Petersburg	Harden Window and Roof - Building C South	Harden the exterior including hurricane-rated windows and roofing system to protect against high wind velocity events. Estimated completion time: more than 12 months. / 2	\$4,575,295	Currently Unfunded	EMPATF, HMGP; PDM Program	1/18/2023	
1150	Bayfront Medical Center / St. Petersburg	Harden Window and Roof - Building C North	Harden the exterior including hurricane-rated windows and roofing system to protect against high wind velocity events. Estimated completion time: more than 12 months. / 2	\$4,646,281	Currently Unfunded	EMPATF, HMGP; PDM Program	1/18/2023	
1090	Bayfront Medical Center / St. Petersburg	Harden Cancer Care Center	Harden the exterior including the roof, windows and walls to ensure continuity of operations. Estimated completion time: more than 12 months. / 2	\$430,003	Currently Unfunded	EMPATF, HMGP; PDM Program	1/18/2023	
1070	Bayfront Medical Center / St. Petersburg	Harden West Lobby	Harden the roof and curtainwall window assembly to protect against high wind velocity events. Estimated completion time: more than 12 months. / 2	\$1,250,200	Currently Unfunded	EMPATF, HMGP; PDM Program	1/18/2023	
1000	Bayfront Medical Center / St. Petersburg	Harden Mechanical Room & Medical Gas Enclosure - Building B/C	The Mechanical Room and a fenced lean to will be hardened. Estimated completion time: more than 12 months. / 2	\$1,000,000	Currently Unfunded	Emergency Management, Preparedness and Assistance Trust Fund, HMGP; PDM Program	1/18/2023	
995	Bayfront Medical Center / St. Petersburg	Building C Boiler / Chiller Plant Hardening & Rooftop Equipment Mitigation	The hospital's boiler & chiller plant needs hardening for severe weather mitigation. Estimated completion time; More than 12 months. / 2	\$1,000,000	Currently Unfunded	Emergency Management, Preparedness and Assistance Trust Fund, HMGP; PDM Program	1/18/2023	
995	Bayfront Medical Center / St. Petersburg	Tank Farm Enclosure	On the South side of Building C, the Oxygen Tank Farm will be hardened. Estimated completion time; more than 12 months. / 2	\$1,000,000	Currently Unfunded	Emergency Management, Preparedness and Assistance Trust Fund, HMGP; PDM Program	1/18/2023	
995	Bayfront Medical Center / St. Petersburg	Life Services Building Window, Door & Wall Hardening	The Life Services Building needs windows, doors and walls hardened for protection against high wind velocity and severe weather events. Estimated completion time; more than 12 months. / 2	\$1,000,000	Currently Unfunded	Emergency Management, Preparedness and Assistance Trust Fund, HMGP; PDM Program	1/18/2023	
990	Bayfront Medical Center / St. Petersburg	Child Development Center Wind, Door & Roof Hardening	Harden windows, doors and roof for hurricane and severe weather mitigation. Estimated completion time: more than 12 months. / 2	\$1,000,000	Currently Unfunded	Emergency Management, Preparedness and Assistance Trust Fund, HMGP; PDM Program	1/18/2023	
980	Bayfront Medical Center / St. Petersburg	Family Health Center Structural Hardening	Harden walls and roof to mitigate high wind velocity. Estimated time of completion: 12 months. / 2	\$1,000,000	Currently Unfunded	Emergency Management, Preparedness and Assistance Trust Fund, HMGP; PDM Program	1/18/2023	
980	Bayfront Medical Center / St. Petersburg	Haden Exterior - Building C East - Area 4	Harden the exterior of Building C East - including hurricane-rated windows, walls, doors and roofing system to protect against high wind velocity events. / 2	\$3,070,827	Currently Unfunded	Emergency Management, Preparedness and Assistance Trust Fund, HMGP; PDM Program	1/18/2023	
1046	Belleair Beach	12th St., 13th St., and Bay Dr. (BMP 7 & 8) Stormwater Improvement Project	Drainage Improvement Project - Prevent high tide flooding on 12th St., 13th St., and Bay Dr.	\$717,350	Construction	Local Funds	1/18/2023	Kyle Riefler
910	Belleair Beach	Stormwater Management	Stormwater repairs, improvements, and replacing curb work.	\$60,000	Design	Local Funds	1/18/2023	Kyle Riefler
1136	Belleair Beach	17th and 18th Street (BMP 10 & 11) Stormwater Improvement Project	Drainage Improvement Project - Prevent high tide flooding on 17th St. and 18th St.	\$336,000	Design	Local Funds	1/18/2023	Kyle Riefler
1259	Belleair Beach	Community Center Generator	<p>Purchase a standby natural gas generator for the Community Center which contains all municipal offices and serves as the EOC during emergencies. The City of Belleair Beach was declared ineledgable to recieve \$180,000 HMGP funding. The generator currently is funded in the City's CIP program in FY23.</p> <p>The EOC generator will address the following goal and objectives within the 2020 Pinellas County Multi-Jurisdictional Local Mitigation Strategy: Goal - Become a more disaster resilient community. Objective 1.7 - Property Protection - Identify, assess, prioritize and hard critical facilities and key critical infrastructure. Objective 1.22 - Preventive Measures - Develop plans and procedures that minimize impacts from power outages.</p> <p>The Belleair Beach Community Center is the City's primary EOC during an event. If an evacuation is ordered, the EOC is temporarily moved to St Jerome Catholic Church. EOC operations resume at the Community Center once access is permitted. The generator will provide power to the EOC in the event of a power outage.</p>	\$240,000	Fully funded FY 2023	Local Funds	1/18/2023	Kyle Riefler
1034	Belleair Beach	9th, 19th, and 20th St. (BMP 6 & 12) Stormwater Improvement Project	Drainage Improvement Project - Prevent high tide flooding on 9th, 19th, and 20th St.	\$498,680	Design	Local Funds	1/18/2023	Kyle Riefler
939	Belleair Beach	7th and 16th seawalls	Renovate 7th and 16th seawalls.	\$159,500	Construction	Local Funds	1/18/2023	Kyle Riefler
1007	Belleair Beach	Gulf Blvd. Utility Undergrounding Phase 1	Gulf Blvd. Utility Undergrounding Phase 1 - Undergrounding overhead utilities and equipment to build resiliency and improve aesthetics in Belleair Beach. Phase includes east side of Gulf Blvd. from Causeway Blvd. to 28th Ave. N.	\$1,976,584	Construction	Penny IV, Local Funds	1/18/2023	Kyle Riefler
1007	Belleair Beach	Gulf Blvd. Utility Undergrounding Phase 2	Gulf Blvd. Utility Undergrounding Phase 2 - Undergrounding overhead utilities and equipment to build resiliency and improve aesthetics in Belleair Beach. Phase includes east side of Gulf Blvd. from Causeway Blvd. to City Marina.	\$3,372,364	Construction	Penny IV, Local Funds	1/18/2023	Kyle Riefler

**Pinellas County**  
**Local Mitigation Strategy 2022-2023**  
**Appendix D, Table D-1: Mitigation Initiatives**

Total Score	Jurisdiction/ Organization	Project Name	Description/ Natural Hazard Addressed (Key: 1=Flooding; 2=Storm Wind; 3=Erosion; 4=All Hazard)	Est. Cost	Timeframe / Status	Possible Funding Sources	Date Last Reviewed	Updated By
970	Belleair Bluffs / Public Works	City Hall Storm Shutters	Install commercial roll-down storm shutters to protect city hall. Estimated completion time: more than 12 months.	\$80,000	Currently Unfunded	EMPATF, HMGP; PDM Program	1/18/2023	RUSSELL SCHMADER, PUBLIC WORKS SUPERVISOR
1044	Belleair Bluffs / Public Works	PUBLIC WORKS FACILITY - UNDERGROUND GAS RUN GENERATOR	A fully operational gas line operated building generator for use during any outages, storms, storm preparations. It is imperative that the public works facility be ready to mitigate storm risks at all times for residents, businesses, major street clearance. There is currently NO generator at the facility; therefore all preparations have to be prepared Prior to the storm as well as getting all vehicles, machinery, tools ready.	\$20,000	Currently Unfunded	City Funds that would be reallocated from other budget line items.	1/18/2023	RUSSELL SCHMADER, PUBLIC WORKS SUPERVISOR
1154	Belleair Bluffs City Hall	GAS GENERATOR FOR CITY HALL	A fully operational gas line operated building generator for use during any outages, storms, storm preparations. It is imperative that the public works facility be ready to mitigate storm risks at all times for residents, businesses, major street clearance. There is currently NO generator at the facility; therefore all preparations have to be prepared Prior to the storm as well as getting all vehicles, machinery, tools ready. This would be a replacement generator from the one that was installed when the building was completed in 2002. The maintenance costs are becoming insurmountable and the need is urgent.	\$100,000	Currently unfunded	City funds that have been reserved or/and reallocated from the Capital Fund	1/18/2023	RUSSELL SCHMADER, PUBLIC WORKS SUPERVISOR
1095	Clearwater / Public Utilities	Purchase and install manhole pans	This project is to purchase and install 17,614 manhole pans. These manhole pans are designed to limit rainwater from entering the waste water collection system when a manhole is submerged. This can help with storms that cause standing water or storm surge that has pushed tides onto roadways. Preventing water from entering the water collection system is important because if the pipe or the water reclamation facility cannot keep up with the amount of water entering the system, then a sanitary sewer overflow occurs. This can occur at either the manhole or at the reclamation facility. The Public Utilities Department has selected Rain stopper as their preferred manhole pan. Installation is basic: lift up the manhole, place on the rim of the manhole frame, then lower the manhole lid. Any water entering from the lid is stopped from entering the waste water collection system. The device only weighs ten pounds and is low maintenance since there are no moving parts. The cost of this preventative measure is less than \$150 per manhole. The estimated construction length is one year.	\$2,625,000	Not approved for HMGP	EMPATF, PDM Program	1/18/2023	Sarah Kessler
1110	Clearwater / Public Utilities	Purchase and install Stamford Baffles in 4 clarifiers at Marshall Street Facility	There are currently four (4) clarifiers at the Marshall Street Water Reclamation Facility. The project is the purchase and installation of Stamford Baffords on each of those clarifiers. The Baffles will increase performance by reducing the Total Suspended Soils (TSS) entering the effluent trough and adding the hydraulic capacity of the clarifier. The overall performance of the clarifiers will increase by reducing the velocity in the tanks. The baffles will allow clarifiers to handle peak flows associated with large rainfalls and storm surges and reduce the chance of sanitary sewer overflows. The baffles will be installed around the weir and attached to the concrete. The cost of this preventative measure is less than \$138,000 per Stamford Baffle. The estimated construction length is one year.	\$550,000	Not approved for HMGP	EMPATF, PDM Program	1/18/2023	Sarah Kessler
1110	Clearwater / Public Utilities	Purchase and install Stamford Baffles in 2 clarifiers at East Facility	There are currently two (2) clarifiers at the East Water Reclamation Facility. The project is the purchase and installation of Stamford Baffords on each of those clarifiers. The Baffles will increase performance by reducing the Total Suspended Soils (TSS) entering the effluent trough and adding the hydraulic capacity of the clarifier. The overall performance of the clarifiers will increase by reducing the velocity in the tanks. The baffles will allow clarifiers to handle peak flows associated with large rainfalls and storm surges and reduce the chance of sanitary sewer overflows. The baffles will be installed around the weir and attached to the concrete. The cost of this preventative measure is less \$138,000 per Stamford Baffle. The estimated construction length is one year.	\$275,000	No approved for HMGP	EMPATF, PDM Program	1/18/2023	Sarah Kessler
1080	Clearwater / Public Utilities	Telemetry installation at critical and essential lift stations	This project involves outfitting 23 critical and essential lift stations with telemetry which enable remote monitoring. Allowing real time monitoring of lift stations enables faster responses to issues. This would reduce the likelihood of sanitary sewer overflows. The cost of this preventative measure is less than \$18,100 to add monitoring equipment to lift stations. The estimated construction length is 90 days.	\$416,000	Not approved for HMGP	EMPATF, PDM Program	1/18/2023	Sarah Kessler
1043	Clearwater / Public Utilities	Design and install automatic transfer bypass switches	This project includes the design and installation of 23 automatic transfer bypass switches at lift stations, water reclamation facilities, and water treatment facilities. The bypass switch has the ability transfer the electrical load from the electric utility to the back-up generator and switch back when the power is back on. By having an automatic process, there is a reduction in the likelihood that a sanitary sewer overflow will occur. The cost of this preventative measures is \$100,000 per bypass switch. The estimated construction length is 6 months.	\$2,300,000	Not approved for HMGP	EMPATF, PDM Program	1/18/2023	Sarah Kessler
996	Clearwater / Public Utilities	Manhole and gravity sewer rehabilitation on Clearwater Beach	This project includes complete coating of structures, replacement of frame and cover of manholes and gravity piping. Through surveys, 333 manholes and 30,245 linear feet of gravity piping were identified as having the potential to allow the inflow and infiltration of stormwater. These corrections are designed to limit rainwater from entering the waste water collection system when a manhole is submerged. This can help with storms that cause standing water or storm surge that has pushed tides onto roadways. Preventing water from entering the water collection system is important because if the pipe or the water reclamation facility cannot keep up with the amount of water entering the system, then a sanitary sewer overflow occurs. This can occur at either the manhole or at the reclamation facility. The estimated construction length is one year.	\$4,420,000	Not approved for HMGP	EMPATF, PDM Program	1/18/2023	Sarah Kessler
900	Clearwater / Engineering	Intermodal Facility	Construction of a new terminal in downtown. Added 2016 /2	\$2,425,000	Unfunded	EMPATF, HMGP; PDM Program	1/18/2023	Sarah Kessler
1070	Clearwater / Engineering	Public Works Complex – Phase 2 Public Utilities and Stormwater Warehouse Facility	New warehouse facility will be built to Category 5 standards. Added 2016 /4	\$4,248,134	Unfunded	EMPATF, HMGP; PDM Program	1/18/2023	Sarah Kessler
1080	Clearwater / Engineering	Public Works Complex – Phase 3 Administration Building with IT Server	New administration building and secure storage of IT servers will be built to Category 5 standards. Added 2016 /4	\$10,191,909	Unfunded	EMPATF, HMGP; PDM Program	1/18/2023	Sarah Kessler
960	Clearwater / Engineering	Public Works Complex – Phase 4 Meter Shop/ Utilities Mechanical Shop/ Survey Office	New facility for meter shop, utilities mechanical shop, and survey office will be built to Category 5 standards. Added 2016 /4	\$1,449,586	Unfunded	EMPATF, HMGP; PDM Program	1/18/2023	Sarah Kessler

**Pinellas County**  
**Local Mitigation Strategy 2022-2023**  
**Appendix D, Table D-1: Mitigation Initiatives**

Total Score	Jurisdiction/ Organization	Project Name	Description/ Natural Hazard Addressed (Key: 1=Flooding; 2=Storm Wind; 3=Erosion; 4=All Hazard)	Est. Cost	Timeframe / Status	Possible Funding Sources	Date Last Reviewed	Updated By
1150	Clearwater / Engineering	Public Works Complex – Phase 5 Traffic Operations Facility	New facility for traffic operations will be built to Category 5 standards. Added 2016 /4	\$2,626,580	Unfunded	EMPATF, HMGP; PDM Program	1/18/2023	Sarah Kessler
900	Clearwater / Engineering	Public Works Complex – Phase 6 Urban Forestry/ Parks & Beautification and Infrastructure	New facility for urban forestry and P&B will be built to Category 5 standards. Added 2016 /4	\$3,902,806	Unfunded	EMPATF, HMGP; PDM Program	1/18/2023	Sarah Kessler
1010	Clearwater / Engineering	Acquisition of Repetitive Loss Properties	Several repetitive loss properties have been identified for acquisition Added 2016 /1	\$16,000,000	Unfunded	EMPATF, HMGP; PDM Program	1/18/2023	Sarah Kessler
1030	Clearwater / Engineering	Sunshine Towers Stormwater Pipe Realignment	The realignment of the stormwater pipe under the Sunshine Towers will alleviate flooding from the collapsed pipes under the building. Added 2016 /1	\$588,000	Unfunded	EMPATF, HMGP; PDM Program	1/18/2023	Sarah Kessler
1150	Clearwater / Fire & Rescue	Fire Station 47	Construction of a new fire station in an alternate location. Added 2016 /4	\$200,000	Unfunded	EMPATF, HMGP; PDM Program	1/18/2023	Sarah Kessler
850	Clearwater / Marine & Aviation	Airpark Hanger	Replace airplane hangar. Added 2016 /2	\$700,000	Unfunded	EMPATF, HMGP; PDM Program	1/18/2023	Sarah Kessler
830	Clearwater / Marine & Aviation	Stormwater Management	Construct a stormwater management system at the Marina Added 2016 /1	\$7,000,000	Unfunded	EMPATF, HMGP; PDM Program	1/18/2023	Sarah Kessler
800	Clearwater / Marine & Aviation	Marina Walkway	Repair walkway at Marina and protect utilities located under the surface. Added 2016 /1	\$1,450,000	Unfunded	EMPATF, HMGP; PDM Program	1/18/2023	Sarah Kessler
710	Clearwater / Public Utilities	Groundwater Replenishment	Construction of a new hardened facility. Added 2016 /2	\$500,000	Unfunded	EMPATF, HMGP; PDM Program	1/18/2023	Sarah Kessler
970	Clearwater / Public Utilities	Water Treatment Plant #3	The expansion of the water treatment plant will make is possible for the City to produce 100% of the necessary water supply for residents. Added 2016 /4	\$13,400,000	Unfunded	EMPATF, HMGP; PDM Program	1/18/2023	Sarah Kessler
971	Dunedin / Public Works	Lift Station Hardening & Retrofit	<p>Pump stations that receive flow from one or more pump stations through a force main or pump stations discharging through pipes 12” in. or larger are required to provide uninterrupted pumping capabilities. The City has 12 lift stations that meet this requirement and do not have emergency provisions. These lift stations are LS# 3, 2, 12A, 16, 19, 17, 22, 34, 25, 12, 29, and 28 which pump 190,000; 125,000; 100,000; 100,000; 90,000; 55,000; 50,000; 35,000; 30,000; 25,000; 10,000; and 5,000 gallons raw sewage on an average daily flow. The City intends to install diesel driven emergency backup pumps on the nine largest flow lift stations to reduce the chance for significant sanitary sewer overflows (SSO's) during periods of heavy rains or extended power outages. The remaining 3 lift stations shall have portable deisel generators connected to them to provide power and provide uninterrupted pumping service.</p> <p>The City is a coastal community and all of the indicated lift stations are close to watersheds and overflows at any station have the potential to have a significant impact on water quality. These improvements will help mitigate impacts on waterways and residents.</p>	\$1,500,000	Currently Unfunded		1/18/2023	Russell Ferlita
1065	Dunedin / Public Works	WWTP Backup Generators	<p>The City's Wastewater Treatment Plant (WWTP) has a whole site generator that is aged and has experienced issues staying on line in times of emergency. The City is looking to install separate, smaller generators to power individual portions of the plant at the pumping points to keep water flowing and the process working properly in emergency situations and during power outages. The weak points identified at the plant are: Facility 4 (Headworks of the plant), Facility 7 (Clarifiers and Sludge &amp; Secondary Effluent Pumping), Facility 8 (Denitrification Filters), Facility 13 (Blowers), and Facility 14 (Chemical Dosing). The power requirements for the generators identified are 200kW, 200kW, 300kw, 400kw, and 25kw for Facilities 4, 7, 8, 13, and 14 respectively.</p> <p>The City is a coastal community with an outfall to St. Joseph Sound and failure of the Wastewater Treatment Plant will cause sanitary sewer overflows (SSOs) at the plant, outfall of raw sewage into coastal waters, and have the potential to have a significant impact on water quality. These improvements will help mitigate impacts on waterways and residents.</p>	\$1,200,000	Currently Unfunded		1/18/2023	Russell Ferlita
966	Dunedin / Public Works	Lift Station #20 Rehabilitation	Lift station #20 is adjacent to Jerry Branch, a tributary of Curlew Creek. The Florida Department of Environmental Protection (FDEP) along with the Environmental Protection Agency (EPA) listed Curlew Creek on the 303(d) list of impaired waterbodies for a bacteria Total Maximum Daily Load (TMDL). This lift station basin area suffers from Inflow and Infiltration (I&I), is currently undersized, and can experience significant sanitary sewer overflows (SSO's) during periods of heavy rains. This project's intent is to relocate the lift station to a location further from Jerry Branch, to increase the wet well size and capacity, and to mitigate the issues with I&I. These improvements will help mitigate impacts on waterways and residents.	\$1,300,000	Currently Unfunded	HMGP	1/18/2023	Russell Ferlita
988	Dunedin / Public Works	Lift Station #32 Rehabilitation	Lift station #32 is adjacent to Jerry Branch, a tributary of Curlew Creek. The Florida Department of Environmental Protection (FDEP) along with the Environmental Protection Agency (EPA) listed Curlew Creek on the 303(d) list of impaired waterbodies for a bacteria Total Maximum Daily Load (TMDL). This lift station basin area suffers from Inflow and Infiltration (I&I), is currently undersized, and can experience significant sanitary sewer overflows (SSO's) during periods of heavy rains. This project's intent is to increase the wet well size and capacity, to mitigate the issues with I&I, and to address issues in the system related to undersized interceptor sewer mains in the system. These improvements will help mitigate impacts on waterways and residents.	\$750,000	Currently Unfunded	HMGP	1/18/2023	Russell Ferlita
970	Dunedin / Public Works	Lift Station Emergency Backup Systems	Install emergency backup pumps on 9 lift stations and emergency generators on 3 lift stations / 1	\$1,500,000	Currently Unfunded	EMPATF, HMGP; PDM Program	1/18/2023	Russell Ferlita
920	Dunedin / Public Works	Dunedin Main Library Opening Protection	Install hurricane shutters/opening protection on Dunedin Main Library. / 2	\$250,000	Currently Unfunded	EMPATF, HMGP; PDM Program	1/18/2023	Joseph DiPasqua

Pinellas County  
Local Mitigation Strategy 2022-2023  
Appendix D, Table D-1: Mitigation Initiatives

Total Score	Jurisdiction/ Organization	Project Name	Description/ Natural Hazard Addressed (Key: 1=Flooding; 2=Storm Wind; 3=Erosion; 4=All Hazard)	Est. Cost	Timeframe / Status	Possible Funding Sources	Date Last Reviewed	Updated By
1155	Dunedin	Manhole Reinforcement via structural lining	The project will increase resiliency of the lift station and sanitary sewer basin by increasing durability as well as prolonging the useful life of the existing system and its ability to carry flows safely through the basin. The structural lining of the sewer basin manholes will allow for the increased protection of residences and infrastructure serviced in the sewer basin area and the protection of the treatment capacity of the City's WWTP. The project will avoid the open cut method of removing and replacing the existing infrastructure. The project will decrease inflow and infiltration during emergency storm events while mitigating Sanitary Sewer Overflow effects. The project will consist of structural reinforcement of approximately 133- 4ft diameter manholes of various depth. Key basins were chosen for their susceptibility to structural failure due to age and material type. City of Dunedin Basin Manholes 1, 2, 5, and 16 were chosen.	\$399,000	Currently Unfunded	Local funding, HMGP	1/18/2023	Matthew Woodham
1133	Dunedin	Sanitary Sewer CIPP for I&I and SSO mitigation	The project will increase resiliency of the lift station and sanitary sewer basin by increasing durability as well as prolonging the useful life of the existing system and its ability to carry flows safely through the basin. The lining of the sewer basins will allow for the increased protection of residences serviced in the sewer basin area and the protection of the treatment capacity of the City's WWTP. The project will avoid the open cut method of removing and replacing the existing infrastructure. The project will decrease inflow and infiltration during emergency storm events while mitigating Sanitary Sewer Overflow effects. The project will consist of lining approximately 55,000 linear ft. of sanitary sewer pipe. Key basins were chosen for their susceptibility to structural failure due to age and material type. City of Dunedin Basins 1, 2, 5, and 16 were chosen.	\$2,500,000	Currently Unfunded	Local funding, HMGP	1/18/2023	Matthew Woodham
1118	Dunedin	City of Dunedin Lift Station Rehabilitation and Reinforcement	The project will increase resiliency of the lift station and sanitary sewer basin by increasing durability as well as prolonging the useful life of the existing system and its ability to manage flows safely through the lift station collection points, well capacities, and forcemain system. The rehabilitation and reinforcement of the lift stations will allow for the increased protection of residences serviced in the sewer basin area and the protection of the treatment capacity of the City's WWTP. The project will avoid the reactionary measures of catastrophic failure, ensuring continued operation in emergency situations.. The project will assure design capability and capacity during emergency storm events while mitigating Sanitary Sewer Overflow effects. The project will consist of rehabilitation and reinforcement of 10 susceptible Lift Stations within the City of Dunedin Sanitary network. Key basins were chosen for their susceptibility to structural failure due to age and material type. City of Dunedin Lift Stations 1,2,3,4,8,10,15,17,33, and 36 were chosen.	\$1,900,000	Currently Unfunded	Local funding, HMGP	1/18/2023	Matthew Woodham
970	Eckerd College / St. Petersburg	Building Flood/Wind Retrofit	Retrofit priority support building to address vulnerabilities to high winds and/or flooding based on engineering evaluation. Estimated completion time: more than 12 months. / 1, 2	\$250,000	Currently Unfunded	EMPATF, HMGP; PDM Program	1/18/2023	Adam Colby
940	Eckerd College / St. Petersburg	Building Flood/Wind Retrofit	Retrofit academic building to address vulnerabilities to high winds and/or flooding based on engineering evaluation. Estimated completion time: more than 12 months. / 1, 2	\$250,000	Currently Unfunded	EMPATF, HMGP; PDM Program	1/18/2023	Adam Colby
1090	Gulfport / Public Works	Stormwater Project	Enlarge drainage pipes and construct retention ponds citywide to reduce street and yard flooding to improve drainage in low lying areas of the City. Estimated completion time: more than 12 months. / 1	\$500,000	Currently Unfunded	Capitalization Grants for Clean Water State Revolving Funds; CDBG; FMAP; HMGP; Nonpoint Source Implementation Grants	1/18/2023	Michael Taylor
1035	Gulfport / Public Works	Flood Mitigation in Waterfront Redevelopment District	Construct storm doors for commercial businesses within the 100-year floodplain of the Waterfront Redevelopment District. Estimated completion time: more than 12 months. / 1	\$60,000	Currently Unfunded	EMPATF, HMGP; PDM Program	1/18/2023	Michael Taylor
1030	Gulfport / Community Development	Land Acquisition	Public purchase of properties that are flood prone or at high risk/exposure to being flooded or experience wave action/erosion. Estimated completion time: more than 12 months. / 1	\$500,000	Currently Unfunded	EMPATF, HMGP; PDM Program	1/18/2023	Michael Taylor
1015	Gulfport / Public Works	Municipal EOC	Build a new City EOC, 1617 - 49th Street South. Estimated completion time: more than 12 months. / 4	\$3,500,000	Currently Unfunded	HMGP, Local	1/18/2023	Michael Taylor
1,247	Gulfport / Public Works, Community Development	City Hall Complex – EOC Generators Installation	Hurricane Irma left 85% of Gulfport without power for more than one week, destroying 17 transformers and downing many power lines. City Hall complex was without electricity for one week. City Hall complex is the city's EOC and consists of three buildings: City Hall/Police Department, Fire Department, and Public Services. No power at the EOC complex compromised the City's emergency services and ability to respond and recover from Irma due to the lack of communications within and outside of the City, the use of computers, telephones, radios, and the equipment for damage assessment and monitoring of critical facilities such as water and lift stations. Replace two generators and install 1 new generator. One new generator will be 300 Kw, two other new generators will be 150Kw. / 4	\$334,000	HMGP Application approved by FDEM and FEMA. Project is currently under construction.	HMGP, Local	1/18/2023	Michael Taylor
1,284	Gulfport / Public Works, Community Development	Generator Installation at Alternate EOC	Hurricane Irma left 85% of Gulfport without power for more than one week, destroying 17 transformers and downing many power lines. City Hall complex and the Public Works building was without electricity for one week. City Hall complex is the city's EOC but lies within Evacuation D Zone. Therefore, the Public Works building is the alternate EOC since it is not in a flood zone or evacuation zone. No power for the EOC complex and Public Works building compromised the City's emergency services and ability to respond and recover from Irma due to the lack of communications within and outside of the City, the use of computers, telephones, radios, and equipment for damage assessment and monitoring of critical facilities such as water and lift stations. Install one 100Kw generator. /4	\$75,204	HMGP Application was approved by FDEM and FEMA. Project is currently under construction.	HMGP, Local	1/18/2023	Michael Taylor

Pinellas County  
Local Mitigation Strategy 2022-2023  
Appendix D, Table D-1: Mitigation Initiatives

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1250	Indian Rocks Beach / Public Works	Stormwater Drainage	Reconstruction of small basin stormwater collection and discharge facilities as required by NPDES. Based upon an updated Stormwater Master Plan in 2022, multiple City facilities are scheduled to be upgraded moving forward over a 20 year period and thereby be in compliance with NPDES regulations. One segment on 16th Avenue and one segment on 2nd Street are scheduled to be constructed /completed in 2023 with 3 segments on Harbor Drive scheduled to be designed in 2023.	\$2,833,218	2023	City of Indian Rocks Beach Capital Improvement Plan; Capitalization Grants for Clean Water State Revolving Funds; CDBG; FMAP; HMGP; Nonpoint Source Implementation Grants; Penny for Pinellas; SWFWMD	1/18/2023	Dean Scharmen
893	Indian Rocks Beach / Public Works	Gulf Blvd Utility Undergrounding - Phase II	To make aesthetic and safety improvements to Gulf Boulevard, including undergrounding of the Gulf Blvd. overhead utilities and equipment. Phase II of the project, about \$5.5 million in costs, would start at the 506 Gulf Boulevard (ending point for Phase I) and continue North approximately 1 mile.	\$5,696,869	The City has contracted with a consultant for the engineering, design and construction of the project in April of 2021. Completion is anticipated by September 2026.	Pinellas County, City of Indian Rocks Beach Capital Improvement Plan	1/18/2023	Dean Scharmen
860	Indian Rocks Beach / Public Works	Road Milling, Resurfacing and Curbing	Road deterioration causes safety hazards and negatively impacts the attractiveness of the neighborhood. This project includes continuation of street milling, resurfacing, and curb replacement and includes updating the drainage system in the areas resurfaced. This project also includes concrete curb and gutter replacement and asphalt milling and resurfacing at selected locations in Fiscal Years 2021-2025.	\$2,500,000	In CIP for the next five years	City of Indian Rocks Beach Capital Improvement Plan; SWFMD	1/18/2023	Dean Scharmen
1030	Indian Shores / Town Administrator	Critical Facility Rebuild	Build new town hall, police department and annex buildings. Estimated completion time: more than 12 months. / 2	\$3,500,000	Currently Unfunded	FMAP; HMGP; PDM Program	1/18/2023	
915	Indian Shores / Town Administrator	Seawall Erosion Control	Reconstruct seawall with tiebacks at Intra Coastal Waterway and Town Street. Estimated completion time: more than 12 months. / 3	\$160,000	Currently Unfunded	Capitalization Grants for Clean Water State Revolving Funds; CDBG; FMAP; HMGP; Nonpoint Source Implementation Grants	1/18/2023	
865	Indian Shores / Town Administrator	Detention Pond	Create a detention pond and storm water drainage system in the community redevelopment area. Estimated completion time: more than 12 months. / 1	\$100,000	Currently Unfunded	Capitalization Grants for Clean Water State Revolving Funds; CDBG; FMAP; HMGP; Nonpoint Source Implementation Grants	1/18/2023	
910	Kenneth City / Public Works	Stormwater Management	Repair, rework, and replace components in the Kenneth City storm drain system. Estimated completion time: more than 12 months. / 1; Project is ongoing. The Town routinely funds ongoing stormwater improvements annually in conjunction with the Town's Capital Improvement Plan (CIP). The Town would utilize the services of a contractor to complete these updates, as identified in our future Stormwater Plan.	\$300,000	Currently Unfunded	Capitalization Grants for Clean Water State Revolving Funds; CDBG; FMAP; HMGP; Nonpoint Source Implementation Grants	1/18/2023	
910	Kenneth City / Public Works	Stormwater Management	Repair, rework, and replace components in the Kenneth City storm drain system. Estimated completion time: more than 12 months. / 1; Project is ongoing. The Town routinely funds ongoing stormwater improvements annually in conjunction with the Town's Capital Improvement Plan (CIP). The Town would utilize the services of a contractor to complete these updates, as identified in our future Stormwater Plan.	\$500,000	Currently Unfunded	Capitalization Grants for Clean Water State Revolving Funds; CDBG; FMAP; HMGP; Nonpoint Source Implementation Grants	1/18/2023	
1052	Kenneth City / Public Works	Street Improvements	Funding for street resurfacing has been allocated in the 2021/2022 fiscal year. Streets that require drainage improvements will be prioritized. This would take place consistent with the recommendations of the watershed management plan. Drainage improvements include the construction of stormwater infrastructure for flood control.This project is ongoing.	\$250,000	Currently Unfunded		1/18/2023	Jocilyn Martinez
1271	Kenneth City / Public Works	Stormwater Management	Repair, rework, and replace components in the Kenneth City storm drain system. Estimated completion time: more than 12 months. / 1; Project is ongoing. The Town routinely funds ongoing stormwater improvements annually in conjunction with the Town's Capital Improvement Plan (CIP). Drainage improvements include the construction of stormwater infrastructure for flood controlThe Town would utilize the services of a contractor to complete these updates, as identified in our future Stormwater Plan.	\$75,000	Currently Unfunded	Capitalization Grants for Clean Water State Revolving Funds; CDBG; FMAP; HMGP; Nonpoint Source Implementation Grants	1/18/2023	Jocilyn Martinez
1082	Kenneth City / Public Works	Stormwater Master Plan	This project was initiated in 2019 and is to be completed in late 2021. The Master Plan serves as a foundation for future drainage improvements for the purposes of flood control throughout the Town. This is a requirement of SWFWMD and will be funded by a 50:50 matching grant.	\$92,120	Currently Unfunded		1/18/2023	Jocilyn Martinez
980	Kenneth City / Public Works	Stormwater Rate Study	Currently, the Town does not have a designated mechanism to fund stormwater maintenance and future stormwater improvements for the purposes of flood control. The implementation of a stormwater utility program, which many Pinellas County municipalities have in place, may be needed. The study would identify a rate structure that could be incorporated into a future utility. This study would also be eligible for 50% funding through SWFWMD. A rate study will help determine the best way to fund stormwater improvements through fees or impact fees. This project has no definitive start date.	\$50,000	Currently Unfunded		1/18/2023	Jocilyn Martinez



Pinellas County  
Local Mitigation Strategy 2022-2023  
Appendix D, Table D-1: Mitigation Initiatives

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1052	Kenneth City / Public Works	Watershed Management Plan	The Town is conducting a Watershed Management Plan to identify water quality problems in the watershed, proposes solutions, and creates a strategy for putting those solutions in action. This project will identify water quality benefits. This project will be completed in December 2021.	\$125,000	Currently Unfunded		1/18/2023	Jocilyn Martinez
1044	Kenneth City / Public Works	Town Parking Lot/Resurfacing	This project would entail rebuilding the exiting Town parking lot on in accordance with Town Codes. Possible drainage improvements may be necessary as part of this project. Drainage improvements include the construction of stormwater infrastructure for flood control. This project has no definitive start date.	\$100,000	Currently Unfunded	Capitalization Grants for Clean Water State Revolving Funds; CDBG; FMAP; HMGP; Nonpoint Source Implementation Grants	1/18/2023	Jocilyn Martinez
921	Largo / Engineering Services	Allens Creek BMP Implementation	The Allens Creek Basin Watershed Management Plan, completed in 2013, identified Best Management Practices (BMPs) designed to provide flood control and water quality benefits. This project is a combination of two BMPs identified in the study. First, it is proposed to replace the four 48- inch culverts under St. Pauls Drive with three 5-ft by 12-ft concrete box culverts. The proposed alternative is predicted to significantly improve flooding conditions within the Belleair Road/St. Pauls Drive area. Second, the Deville Drive area is drained by a 287-foot long 36-inch concrete pipe. Flooding in this residential area can be greatly reduced by installing a parallel 48-inch pipe to the existing outfall./1	\$1,905,000.00	FY2025-FY2026	Penny for Pinellas IV	1/18/2023	Ann Rocke
944	Largo / Engineering Services	Clearwater Largo Road BMP	The Clearwater-Largo Road Drainage District Study update, completed in 2013, proposed best management practice (BMP) alternatives to address areas that experienced significant flooding during seasonal summer rains and to comply with National Pollutant Discharge Elimination System (NPDES) regulations. Seven proposed BMP alternatives were identified for implementation based on jurisdictional considerations and general feasibility and include replacement or new construction of curb and gutter, swales, inlets, ponds and pipes./1	\$537,900.00	FY2021-FY2022	Penny for Pinellas IV	1/18/2023	Ann Rocke
944	Largo / Engineering Services	Cross Bayou BMP Implementation	The Cross Bayou Basin Watershed Management Plan, completed in 2013, identified Best Management Practices (BMPs) designed to provide flood control and water quality benefits. This project is one of the BMPs identified in the study. The Pinebrook Canal between 142nd Avenue North and Ulmerton Road floods during the 100-year/24-hour and 25-year/24-hour storms. To mitigate flooding, the project involves re-grading and stabilizing or possibly armoring portions of approximately 5,200 feet of the Pinebrook Canal where bank failures have reduced conveyance capacity. The BMP also calls for replacing the 5-foot-by-7-foot concrete box culvert under Ulmerton Road with two 5-foot-by 7-foot box culverts./1	\$2,113,000.00	FY2024-FY2025	Penny for Pinellas IV	1/18/2023	Ann Rocke
944	Largo / Engineering Services	Medical Arts District Regional Pond	The first phase of this project includes a feasibility study to determine a location for a regional stormwater pond system for the Medical Arts District in the West Bay Drive Community Redevelopment District (WBD- CRD). Funding for land acquisition is programmed as Phase II in FY 2021. A regional stormwater pond would allow property owners in the Medical Arts District to redevelop property without the need to accommodate stormwater from projects on the redevelopment site. Additional benefits include components to improve multimodal connectivity, trails, water quality treatment, and flood mitigation. If the project proves feasible, design and construction could move forward for funding in FY 2024. The project could include funding involving a public-private partnership (P3) for the design, construction, and maintenance phases./1	\$200,000.00	Unfunded	Local (Stormwater Fund)	1/18/2023	Ann Rocke
921	Largo / Engineering Services	Pocahontas Drive Drainage Improvements	Drainage improvements include the construction of stormwater infrastructure for flood control./1	\$1,500,000.00	FY2023-FY2024	Penny for Pinellas IV	1/18/2023	Ann Rocke
944	Largo / Engineering Services	Starkey Road Basin BMP Implementation	The Starkey Road Basin Watershed Management Plan, completed in 2012, identified Best Management Practices (BMPs) designed to provide flood control and water quality benefits. This project is a combination of three BMPs identified in the study. It proposes upgrading the culvert at Starkey Road on Channel 10 near the East Bay Oaks Mobile Home Community and at Lake Palms Drive on Channel 10 combined with regrading the south-flowing tributary ditch west of Dahlia Place and Gardenia Place to expand the bottom width and recreate a positive ditch bottom gradient. New inlet/collection structures between the Dahlia Place and Gardenia Place cul- de- sac roadway are also proposed to fully convey roadway runoff through the collector system without overflow down driveways./1	\$1,144,000.00	FY2021-FY2022	Penny for Pinellas IV	1/18/2023	Ann Rocke
921	Largo / Engineering Services	Venetian Gardens Drainage Improvements	Drainage improvements include the construction of stormwater infrastructure for flood control./1	\$1,882,000.00	FY2021-FY2022	Local	1/18/2023	Ann Rocke
1240	Largo / Fire Rescue	Fire Station Renovation Program	The City of Largo operates six fire stations, 38, 39, 40, 41, 42 and 43. The stations are in need of significant repair, maintenance, and upgrade in order to remain operational. An outside consultant completed a needs analysis in 2015 to determine the following: space needs analysis, analysis of all current and immediate repair and maintenance needs and costs, and estimates on the remaining useful life of the buildings. The 2015 Needs Assessment indicated extensive repairs and upgrades for Largo Fire Rescue stations. The Largo Fire Rescue Department is looking ahead to replacing stations that have reached the end of their useful life, including fire stations 38, 39, 42, and 43. The replacement of Station 43 was initiated in FY 16 and will be completed in FY 17. Station 38 would be next, station 42 would be after station 38 and station 39 would be the last, in coordination with the county project to rebuild Rainbow Village. Fire Station 38: Apparatus bay floor resurfacing, interior painting, and drop ceiling replacement. Station 38 is slated to be the first station to be replaced if the penny is re-approved. (Station was built in 1987.) Fire Station 39: Roof replacement, apparatus bay floor resurfacing, and interior painting. Station 39 is scheduled to be replaced in coordination with the county project to rebuild Rainbow Village. (Station was build in 1980.) Fire Station 40: Major roof repair, apparatus bay floor resurfacing, and interior painting. (Station was built in 1990.) Fire Station 42: Roof replacement, apparatus bay floor resurfacing, and interior painting. Station 42 is slated to be the second station replaced if the penny re-approved. (Station was built in 1978.) /4	\$692,000	FY 17-FY 21	General (Local Fund)	1/18/2023	Matthew DiFiore
1150	Largo / Fire Rescue	Fire Station 38 Reconstruction	This is the youngest of the three proposed stations however still has many of the same issues. The roof and HVAC systems will need replacing, the building will need to be brought up to ADA and NFPA standards and living quarters will need redesign and reconfiguration. This building has gone through many changes due to personnel additions and changes over the last ten years. The current building is 6,500 square feet and was constructed in 1986. /4	\$3,750,000	N/A	Unfunded	1/18/2023	Matthew DiFiore

Pinellas County  
Local Mitigation Strategy 2022-2023  
Appendix D, Table D-1: Mitigation Initiatives

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1016	Largo / Environmental Services	WWRF Lift Station Flood Mitigation	This project meets the goals and objectives for structural mitigation projects that include strengthening of vulnerable structures and public facilities to withstand wind, fire and other forces, and elevation of structures to protect them from flood damage. A number of the Wastewater Reclamation Facility (WWRF) sanitary sewer lift stations are in the flood plain. Continuity of operations of these lift stations is at risk during high rain and/or flooding events. The purpose of this project is to reconstruct the lift stations to raise the critical infrastructure above the flood plain at existing Lift Station Nos. 19, 26, 41 and 47.	\$3,150,000	FY2021	HMGP	1/18/2023	Ann Rocke
1150	Largo / Fire Rescue	Fire Station 39 Reconstruction	This building has exceeded its useful life and currently is in need of a roof replacement and internal renovations. The building has no separated living quarters and has inadequate storage space for the needs of the department. This project is intended to work in coordination with the county project to rebuild Rainbow Village. The current building is 5,300 square feet and was constructed in 1979./4	\$3,500,000	N/A	Unfunded	1/18/2023	Matthew DiFiore
1150	Largo / Fire Rescue	Fire Station 42 Reconstruction	On top of issues regarding access and the age of the facility, the building has had multiple roof replacements, renovations, and updates throughout its life. It is recommended that a new building be built with better access for apparatus and better separation of living quarters for firefighters. The current building is 5,300 square feet and was constructed in 1978. /4	\$3,500,000	N/A	Unfunded	1/18/2023	Matthew DiFiore
990	Largo / Environmental Services	WWRF - Biosolids Building Hardening	The Biosolids building is a large industrial, pre-engineered metal building. It houses most of the operating components used to convert wastewater solid into a Class AA Biosolid product, used for fertilization. Due to the essential nature of the facility and the potential for the facility to sustain significant damage during a hurricane, a study was conducted to evaluate the structural performance of the building under the effects of a Category 3 hurricane. Based on the results of the contracted study, scope for this project includes either 1) structural modifications to the existing building, including roofing work, wall work, all structural bracing and stiffening, replacement of doors, windows, louvers (framed openings), and fans, and painting or 2) replacement of the entire building. /1, 2	\$1,600,000	FY 18 -FY19	Wastewater (Local Fund)	1/18/2023	Matthew DiFiore
1190	Largo / Environmental Services	WWRF – Operations Center Reconstruction	The existing WWRF control building and laboratory, both of which are approximately 40 years of age, are not hurricane hardened. As these structures are essential to treatment plant operations, the Department would like to construct a new facility so that staff could continue to operate the plant after a storm event. This would entail design and construction of a new two-story building overlooking the process trains, which would be hurricane hardened for safe quartering during a storm. It would contain the main control room for SCADA workstations, a server room, a full laboratory for permit required lab analysis, storage for chemicals & supplies, a bunker/lounge area, a records room, and a variety of other needs to be determined during the design process. /1, 2	\$4,570,000	FY 18-FY19	Wastewater (Local Fund)	1/18/2023	Matthew DiFiore
970	Largo / Administration	City Hall Reconstruction	The City Hall facility has a number of issues. First, it is not rated for hurricane winds and is in a flood plain. It has electrical and plumbing systems that are original to the building and are repeatedly needing repair. The HVAC system needs to be redesigned as it is not efficient and does not service employees there appropriately. The building is not hardened and has significant space utilization issues. This estimate would construct a new building with the same square footage of the current City Hall and does not include land acquisition or design costs at this time. Policy direction is needed to determine the needs for inside a new City Hall building. The current building is 57,740 square feet and was constructed in 1973. /1, 2	\$18,000,000	N/A	Unfunded	1/18/2023	Matthew DiFiore
1000	Largo / Environmental Services	Public Works Complex Reconstruction	Due to the complex being built on a former closed landfill, the soil underneath the complex is giving way to considerable damage to both the pavement used around the building and the buildings themselves. The Administration building is showing settling in both the facilities workshop and the fleet central stores area and while currently not a structure issue, may be in the near future. The building does not currently meet some ADA requirements for facilities of this nature and size and the building has had multiple issues with water intrusion over the past ten years. It is in the intention that through this project Public Works administrative and management functions can be reviewed, centralized, and coordinated more efficiently. This project scope and cost is based upon engineering estimates and a space needs analysis done in 2013. Costs include the environmental remediation, the moving of the fuel island, the consolidation of the divisions into one building, and associated vehicle storage areas. Total square footage of existing buildings is 44,528, Public Works Administration and Fleet building was constructed in 1976 and the Solid Waste facility was constructed in 1990. /3	\$20,000,000	N/A	Unfunded	1/18/2023	Matthew DiFiore
1210	Largo / Environmental Services	Regional Watershed Management Planning	The Regional Watershed Management Planning project was initiated in the FY2012-2016 CIP and identified the need for the development of a City-wide Watershed Management Plan for the various drainage basins (Starkey, Longbranch, Allen's Creek, McKay Creek) and sub-basins located in the City of Largo. This project included joint funding and participation with the South West Florida Water Management District, Pinellas County, City of Clearwater and other entities that share jurisdiction within the watersheds. The watershed management plans for McKay Creek, Allen's Creek, Long Branch Creek, Starkey Road Basin, and the Clearwater-Largo Road Drainage District Study were completed by FY14. The purpose of this project is to begin planning and designing stormwater system improvements based on the Best Management Practices (BMPs) identified in the Watershed Plans to address flooding, water quality, infrastructure rehabilitation, and meet regulatory requirements. This project will contribute to compliance with the City's National Pollutant Discharge Elimination System (NPDES) stormwater permit and pending Total Maximum Daily Loads (TMDL's) regulations which are administered by the Florida Department of Environmental Protection. /1	\$14,800,000	N/A	Unfunded	1/18/2023	Matthew DiFiore
1090	Largo / Environmental Services	WWRF Master Plan Improvements – Biological Treatment Systems	A portion of the overall project is intended raise critical components of the Largo Wastewater Reclamation Facility (WWRF) above the floodplain. This includes elevating the structure that contains the filter feed pump station and the new disk filters. It also includes four (4) new Motor Control Center (MCC) Buildings that are hardened and elevated. /1	\$2,375,000	FY 18	Wastewater (Local Fund)	1/18/2023	Matthew DiFiore
944	Largo/ Engineering Services	126 Ave Church Creek Storm Drainage Improvements	Project will construct large conveyance piping to eliminate repeat property flooding and damage/1	\$1,500,000	Unfunded	Local Funding	1/18/2023	Jerald Woloszynski
1060	Lealman SFCD / Emergency Management	Fire Station #18 EOC Hardening	Harden by installing roll down shutters, 5 double doors, 3 single doors and 16 windows. Estimated completion time: more than 12 months. / 2	\$36,500	Currently Unfunded		1/18/2023	



Pinellas County  
Local Mitigation Strategy 2022-2023  
Appendix D, Table D-1: Mitigation Initiatives

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980	Lealman SFCD / Emergency Management	Fire Station #19 Secondary EOC Hardening	Harden by adding roll down shutters, 4 single doors and 5 windows. Estimated completion time: more than 12 months. / 2	\$12,700	Currently Unfunded		1/18/2023	
860	Lealman SFCD / Emergency Management	Fleet Building Hardening	Harden with roll down shutters, 2 single doors and 1 window. Estimated completion time: less than 12 months. / 2	\$3,900	Currently unfunded		1/18/2023	
840	Lealman SFCD / Emergency Management	Fleet Building Emergency Power	Evaluate and install quick connect and power transfer switch. Estimated completion time: less than 12 months. / 4	\$35,000	Currently Unfunded	EMPATF, HMGP; PDM Program	1/18/2023	
	Madeira Beach / Community Development	Underground Utilities - East and West side streets	Underground utilities – East and West side streets	\$3,000,000	Penny for Pinellas Phase 111 commence FY/2021; Under construction	Local	1/18/2023	Sue Portal
986	Madeira Beach/Fire Department	Fire Station Expansion	Expand fire station to accommodate the growing needs of the Fire Department.	\$1,500,000	Currently Unfunded		1/18/2023	Sue Portal
1193	Madeira Beach/Fire Department	Quick Response Vehicle	Purchase of QRV to assist with call volume.	\$95,000	Unfunded		1/18/2023	Sue Portal
899	Madeira Beach/Fire Department	Addition of concrete pad and aluminum cover at fire station	Will allow for more storage and vehicle parking.	\$50,000	2023	ARPA	1/18/2023	Sue Portal
842	Madeira Beach/Public Works	131st Ave E and 129th Ave. Roadway Improvements	Mill and resurface, stormwater pipe repairs, and curb repairs.	\$1,000,000	2023/Seeking funding	DEO Infrastructure Grant Program 50% match	1/18/2023	Sue Portal
1154	Madeira Beach/Public Works	Madeira Beach Groin Rehabilitation	Rehab 22 beach groins for safety and effectiveness	\$1,750,000	2023/Seeking funding	FDEP Grant received of \$1.75M	1/18/2023	Sue Portal
863	Madeira Beach/Public Works	Gulf Lane and Beach Access Roadway and drainage improvements	Mill and resurface Gulf Lane and beach access parking lots from 130th to 135th (budget amount increased due to planning to underground conduit)	\$2,500,000	2023	Budget	1/18/2023	Sue Portal
824	Madeira Beach/Public Works	Johns Pass Park parking lot improvements	Mill and resurface Johns Pass Parking lot to improve water pooling and stormwater runoff	\$450,000	2023/2024	Budget	1/18/2023	Sue Portal
864	Madeira Beach/Public Works	Johns Pass Village parking lot improvements	Mill and resurface Johns Pass Village parking lot	\$100,000	2024	Budget	1/18/2023	Sue Portal
858	Madeira Beach/Public Works	E Parsley, W Parsley, A Street, B Street, Lynn Way and Marguerite Drive (Safe Infrastructure).	Mill and resurface, stormwater pipe repairs, and curb repairs.	\$1,500,000	2023/2024	FDOT Grant of \$549,400	1/18/2023	Sue Portal
1100	Madeira Beach/Public Works	Watershed Management Plan	Inventory assets, propose maintenance schedule, implement sea-level rise, develop proposed CIP	\$150,000	2023/2024	South Florida Water Management District- Cooperative Funding 50% Match	1/18/2023	Sue Portal
861	Madeira Beach/Public Works	Generator Replacement (Stormwater Station)	Swapping from diesel to natural gas for easier maintenance and replacing generator at 141st Avenue and North Bayshore Drive	\$125,000	2023	Budget	1/18/2023	Sue Portal
776	Madeira Beach/Public Works	John's Pass Boardwalk Piling Repair	Wrap pilings with structural jacket for durability - plan to do nine to 10 each year	\$150,000	2023-2025	Budget	1/18/2023	Sue Portal
884	Madeira Beach/Public Works	Area 6 Roadway Improvements - 153rd to 155th Ave (1st & 2nd Streets E), Harbor Drive & Municipal Drive	Mill and resurface, stormwater pipe repairs, and curb repairs	\$1,200,000	2023	Budget and \$1M FDOT Grant	1/18/2023	Sue Portal
902	Madeira Beach/Public Works	New Public Works Building	Garage space for Public Works vehicles (for maintenance/storage), offices, and Day Room for Fire Dept personnel	\$200,000	2023	Budget (costs include engineering and start of construction)	1/18/2023	Sue Portal
1043	Morton Plant Hospital Association Inc.	Mease Countryside Hospital Flood Wall	In order to mitigate the identified threat of storm surge driven waters from impacting the South side of the hospital as identified in the slosh model; Morton Plan Hospital Association INC. would like to build a flood wall along the South perimeter to prevent the flooding of the loading dock area. This identified risk has moved the Morton PLant Hospital from a previously identified non-evacuation zone to a level D evacuation zone. The sucessful mitigation of this risk would help to ensure critical community Infatsructure and the commiunity as a whole is more prepared and resilient.	\$300,000	Currently Unfunded	Baycare Self-Funded	1/18/2023	Dirk Palmer
1043	Morton Plant Hospital Association Inc.	MPH PTAK Rehab Ctr Shutters	In order to further protect the building envelope and provide a more resilient Healtcare facility, Morton Plant Hospital Association would like to submit this project to add shutters to the Morton PLant Hospital PTAK Rehabilitation Center. This facility provides both rehabilitaion and nursing Home services to the community. Mitigating the storm wind losses would lead to a more prepared and resilient community as well as reducing the potential for storm wind losses in the county.	\$825,000	Currently Unfunded	Baycare Self-Funded	1/18/2023	Dirk Palmer
1020	Morton Plant Hospital Association Inc.	MCH Windows & Shutters	Morton Plant Hospital INC. in order to further enhance the building envelope is submitting this project to replace 78 windows with hurricane hardened windows. Some of the areas where the window replacement may not be as effective would have shutters installed to minimize storm wind losses. This would also support a more rresilient community and reduce the amount of storm wind loss in the county.	\$2,150,000	Currently Unfunded	Baycare Self-Funded	1/18/2023	Dirk Palmer
890	Morton Plant Hospital / Clearwater	Hospital Retrofit	Replace windows at Morton Plan Hospital’s Adler/ Women’s Center Estimated completion time: more than 12 months. / 2	\$680,000	Currently Unfunded	EMPATF, HMGP; PDM Program	1/18/2023	
890	Morton Plant Hospital / Clearwater	Hospital Retrofit	Replace the lower roof of Witt South building at Morton Plant Hospital. Estimated completion time: more than 12 months. / 2	\$400,000	Currently Unfunded	FMAP; HMGP; PDM Program	1/18/2023	
830	North Redington Beach / Public Works	Stormwater Management #2	Implement retrofit of the remaining 14 storm water valves. Estimated completion time: more than 12 months. / 1	\$210,000	Currently Unfunded	EMPATF, HMGP; PDM Program	1/18/2023	Mary Campbell

**Pinellas County**  
**Local Mitigation Strategy 2022-2023**  
**Appendix D, Table D-1: Mitigation Initiatives**

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810	North Redington Beach / Public Works	Underground Utilities	Place underground utilities along Gulf Boulevard (NRB). Estimated completion time: more than 12 months. / 2	\$7,000,000	Currently Unfunded	EMPATF; HMGP; PDM Program	1/18/2023	Mary Campbell
1065	North Redington Beach / Public Works	North Redington Storm Drain 173rd	Installing a brand new storm drain between 555 and 557 173rd Avenue.	\$15,000	Currently Unfunded		1/18/2023	Bruce Cooper
950	Oldsmar / City Clerk; IT	COOP Document Imaging	Document management program utilizing scanning and digitization of vital records for off-site storage and retrieval. / 4	\$75,000	Currently Unfunded	EMPATF; HMGP; PDM Program	1/18/2023	Tatiana Childress
880	Oldsmar / Planning and Redevelopment; Communications	Public Education and Information	Provide education and information to property and business owners about storm damage and ways to properly protect structures. Estimated completion time: more than 12 months. / 4	\$25,000	Currently Unfunded	EMPATF; HMGP; PDM Program	1/18/2023	Tatiana Childress
950	Oldsmar / Public Works; TECO	Bury Utilities Underground	Bury the overhead electric, telephone and cable TV utility lines in the Community Redevelopment District. Estimated completion time: more than 12 months. / 2	\$2,000,000	Currently Unfunded		1/18/2023	Tatiana Childress
1160	Oldsmar / Public Works; Water Reclamation	Flood Proofing and Hardening of Sanitary Sewer Lift Stations	Storm proof and retrofit eight existing sanitary sewer lift stations within the flood plain. Estimated completion time: more than 12 months. / 1, 2	\$400,000	Currently Unfunded	EMPATF; HMGP; PDM Program	1/18/2023	Tatiana Childress
1115	Oldsmar/Fire Rescue	Aerial Fire Apparatus Replacement	Current response of City assets includes fire pumper apparatus only. Replacement of current response with an aerial fire apparatus will include additional option of aerial component providing ability to access elevated structures such as hotels and commercial buildings. The additional option of an aerial master stream for large fire attack will also be available	\$1,150,000	Currently Unfunded	EMPATF; HMGP; PDM Program	1/18/2023	Mandi Clark
924	Oldsmar/Public Works	Portable solar variable message board	Message board necessary to communicate with drivers during an emergency, and to alert changing road conditions	\$15,000	Unfunded	EMPATF; HMGP; PDM Program	1/18/2023	Tatiana Childress
902	Oldsmar/Public Works	Dougl's Road Improvements	Douglas Road is a narrow, high traffic volume, two lane commercial collector street that does not meet current collector road standards for commercial vehicles. This Project will improve the roadway and drainage of the right-of-way. This road is a necessary route during an emergency for City field staff to physically connect with the EOC. The project is to widen the road and to improve drainage facilities, and provide landscaping and sidewalks	\$6,200,000	Phase I funded by state and local, Phase II unfunded	EMPATF; HMGP; PDM Program	1/18/2023	Tatiana Childress
1076	Oldsmar/Public Works	Trailer Mounted Generator (#402)	Mounted Generator (#402) is essential for continuing services of Lift Stations during power failure.	\$75,000	Unfunded	EMPATF; HMGP; PDM Program	1/18/2023	Tatiana Childress
1076	Oldsmar/Public Works	Trailer Mounted Bypass 6" Mobile Pump (#410)	Mobile pump is necessary to maintain and fix lift stations during emergency events.	\$55,000	Unfunded	EMPATF; HMGP; PDM Program	1/18/2023	Tatiana Childress
887	Oldsmar/Public Works	Crane Truck with hydraulic outrigger	As the Reverse Osmosis Plant ages there is greater demand for repair equipment. A second crane trucks for will provide some redundancy as much of the equipment at LS's and treatment facilities requires mechanical lifting capabilities. This will also provide backup for extreme weather events. Crane trucks are necessary for replacement of heavy components in lift stations	\$100,000	Unfunded	EMPATF; HMGP; PDM Program	1/18/2023	Tatiana Childress
924	Oldsmar/Public Works	Skid Loader	In 2018, a sandbag attachment was purchased to help make the City's sandbag loading process more efficient. This nimble machine is highly useful in emergency clean-up situations to quickly clean the city. Also, due to its compact design, this is the machine of choice to access rear easements in residential lots. The city has a brush attachment and can use this to clear debris off of streets after hurricane	\$60,000	Unfunded	EMPATF; HMGP; PDM Program	1/18/2023	Tatiana Childress
1038	Oldsmar/Public Works	Moccasin Creek Bank Stabilization	Moccasin Creek between Peppertree Ct. and Oakleaf Blvd. has ongoing erosion. This project would be to stabilize the banks in order to stop the continued degradation. Gabion Baskets or another sustainable option, would be utilized in order to armor the river banks. Ongoing erosion causes sediment to be transported downstream. This leads to reduced capacity in the channel which causes increased frequency of flooding. Additionally if erosion continues, it will threaten the integrity of structures closest to the creek.	\$174,000	Unfunded	EMPATF; HMGP; PDM Program	1/18/2023	Tatiana Childress
971	Oldsmar/Public Works	Wind Mitigation Study	This project is to provide wind studies to evaluate four (4) specific buildings at current City sites that will determine the structural wind velocity/category of all four (4) building site locations. The City considers these buildings to be key structures, which are desired to be utilized for staff storm shelters. The Study and potential improvements will allow the City to house staff during emergencies in order to maintain City services, protect public safety, and maintain regulatory compliance for the water treatment facilities. The study will assess sheltering capabilities and provide cost estimates for improvements to meet sheltering standards.	\$60,000	Currently Funded	Local	1/18/2023	Ashlee Painter
1070	Oldsmar/Public Works	Stormwater Master Plan	Develop a 10-year Stormwater Master Plan that will serve as the guidance for the stormwater utility's capital improvement and maintenance programs. The plan should encompass the city's history of stormwater management, provide a path forward for improvement, and be clear and concise.	\$500,000	Currently Funded	Local	1/18/2023	Ashlee Painter
930	PARC	Disabilities Registration	Provide computerized pre-registration for individuals with severe developmental disabilities. Estimated completion time: less than 12 months. / 4	\$25,000	Currently Unfunded		1/18/2023	
920	PARC / St. Petersburg	Special Needs Shelter Retrofit	Harden PARC building to serve as a safe multi-hazard shelter including an emergency operation center. Estimated completion time: more than 12 months. / 2	\$9,500,000	Currently Unfunded		1/18/2023	
920	Pinellas County / Parks & Conservation Resources	Alligator Lake Habitat Restoration (845)	Comprehensive ecosystem restoration project for wetland and upland creation and enhancement and stormwater polishing. /2 (Project on schedule in monitoring/maintenance phase)	\$1,300,000	FY2012 - FY2018	Grant; Local funds; SWFWMD	1/18/2023	Steve Harper
680	Pinellas County / Parks & Conservation Resources	Mobbly Bay Habitat Restoration (656)	Comprehensive ecosystem restoration project for wetland and upland creation and enhancement and stormwater polishing. /2 (Project to be completed by SWFWMD)	\$1,100,000	FY2012 - FY2018	Grant; Local funds; SWFWMD	1/18/2023	Steve Harper

Pinellas County  
Local Mitigation Strategy 2022-2023  
Appendix D, Table D-1: Mitigation Initiatives

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1255	Pinellas County / Public Works Environmental Mgmt Division	Sea Level Rise Vulnerability Assessment	Pinellas County Sea Level Rise and Storm Surge Vulnerability Assessment. Will perform vulnerability risk assessments of tidal flooding & storm surge impacts at multiple SLR scenarios & time horizons for critical County infrastructure assets / 2	\$450,000	FY18-FY21 / Digital Elevation Model and asset geodatabase complete, Storm Surge modeling ongoing.	U.S. Treasury	1/18/2023	Andy Squires
1140	Pinellas County / Public Works	Curlew Creek and Smith Bayou Watershed Management Plan	Evaluate drainage patterns within watershed; identify flooding locations; develop BMPs to address the issues. / 1, 3	\$850,000	FY2017 - FY2020 / In Progress	Surface Water Utility Fund and SWFWMD CFI Grant	1/18/2023	Rhonda Bowman
1140	Pinellas County / Public Works	Anclote River Watershed Management Plan	Evaluate drainage patterns within watershed; identify flooding locations; develop BMPs to address the issues. / 1, 3	\$800,000	FY2017 - FY2020 / In Progress	Surface Water Utility Fund and SWFWMD CFI Grant	1/18/2023	Rhonda Bowman
1140	Pinellas County / Public Works	Lake Tarpon Watershed Management Plan (Floodplain Mapping)	Evaluate drainage patterns within watershed; identify flooding locations; develop BMPs to address the issues. / 1, 3	\$500,000	FY2018 - FY2023 / In Progress	Surface Water Utility Fund and SWFWMD CFI Grant	1/18/2023	Rhonda Bowman
1118	Pinellas County / Public Works	Brooker Creek Watershed Management Plan	Evaluate drainage patterns within watershed; identify flooding locations; develop BMPs to address the issues. / 1, 3	\$1,050,000	FY2018 - FY2023 / In Progress	Surface Water Utility Fund and SWFWMD CFI Grant	1/18/2023	Rhonda Bowman
1140	Pinellas County / Public Works	South Creek Watershed Management Plan	Evaluate drainage patterns within watershed; identify flooding locations; develop BMPs to address the issues. / 1, 3	\$750,000	FY2019 - FY2021 / In Progress	Surface Water Utility Fund and SWFWMD CFI Grant	1/18/2023	Rhonda Bowman
1140	Pinellas County / Public Works	Klosterman Bayou Watershed Management Plan	Evaluate drainage patterns within watershed; identify flooding locations; develop BMPs to address the issues. / 1, 3	\$300,000	FY2020 - FY2021 / In Progress (Scoping)	Surface Water Utility Fund and SWFWMD CFI Grant	1/18/2023	Rhonda Bowman
1140	Pinellas County / Public Works	Roosevelt Creek Watershed Management Plan	Evaluate drainage patterns within watershed; identify flooding locations; develop BMPs to address the issues. / 1, 3	\$800,000	FY2020 - FY2023 / In Progress (Scoping)	Surface Water Utility Fund and SWFWMD CFI Grant	1/18/2023	Rhonda Bowman
1140	Pinellas County / Public Works	Coastal Zone 5 Watershed Management Plan	Evaluate drainage patterns within watershed; identify flooding locations; develop BMPs to address the issues. / 1, 3	\$575,000	FY2021- FY2024 (Procurement)	Surface Water Utility Fund and SWFWMD CFI Grant	1/18/2023	Rhonda Bowman
1140	Pinellas County / Public Works	Starkey Road Watershed Management Plan Update	Evaluate drainage patterns within watershed; identify flooding locations; develop BMPs to address the issues. / 1, 3	\$500,000	FY2021- FY2024 (Procurement)	Surface Water Utility Fund and SWFWMD CFI Grant	1/18/2023	Rhonda Bowman
1140	Pinellas County / Public Works	Sutherland Bayou Watershed Management Plan	Evaluate drainage patterns within watershed; identify flooding locations; develop BMPs to address the issues. / 1, 3	\$300,000	FY2022-FY2025 (CFI)	Surface Water Utility Fund and SWFWMD CFI Grant	1/18/2023	Rhonda Bowman
1200	Pinellas County / Public Works	Cross Bayou Improvements Phase 2	Cross Bayou Improvements Segment 2 (002124B): This project will improve conveyance through Cross Bayou Canal and reduce duration of flooding. The banks of the canal will be stabilized as needed to reduce future sediment buildup. Property rights will be acquired and maintenance berms furnished to provide access for future maintenance. This project also undertakes a number of secondary goals via the Envision Sustainable Infrastructure process to include habitat and floodplain storage, water quality and explores recreational trail and blueway opportunities.	\$8,410,000	FY21-FY30 / In Progress	Penny for Pinellas	1/18/2023	Anita Wang
1190	Pinellas County / Public Works	Curlew Creek (Channel A Oro Dr to Wilshire Dr) and Smith Bayou (Lower Bee Branch Channel Restoration near Tampa Rd) Stormwater Conveyance Improvements	Curlew Creek and Smith Bayou Stormwater Conveyance Improvements (004121A): Implementation of the recommended capital improvement projects contained in the Curlew Creek Watershed Management Plan (WMP) to provide an increased level of flood protection and improve water quality. The County will undertake highly ranked projects that primarily benefit unincorporated Pinellas County and will seek partnership opportunities with municipalities for other high priority recommended projects.	\$15,561,000	FY21-FY30 / In Progress	Penny for Pinellas	1/18/2023	Anita Wang
941	Pinellas County / Public Works	Cross Bayou Estates Drainage Phase 2	Cross Bayou Estates Drainage 2 (001328B): Drainage improvements to alleviate residential structural and street flooding in the vicinity of Cross Bayou Estates. / 1	\$2,950,000	FY21-FY25 / In Progress	Penny for Pinellas	1/18/2023	Anita Wang
1049	Pinellas County / Public Works	N Highland Drainage Improvements	N Highland Ave Drainage Improvements (1333A) / 1, 3	\$2,260,000	FY21-FY23 / In Progress	Penny for Pinellas	1/18/2023	Anita Wang
1076	Pinellas County / Public Works	Stormwater Infrastructure Program PIV	Stormwater Infrastructure Program PIV (004207A): Annually funded program to rehabilitate stormwater infrastructure to address flooding. / 1, 3	\$15,412,000	FY21-FY30 / In Progress	Penny for Pinellas,	1/18/2023	Anita Wang
932	Pinellas County / Public Works	Starkey Road Channel 5 Bank Stabilization Improvements	Starkey Road Channel 5 Bank Stabilization Improvements (004135A): Bank stabilization and erosion control measures for approximately 2,100' of Starkey Road Channel 5 from Starkey Road northeasterly to the CSX railroad crossing. / 3	\$4,724,000	FY21-FY25 / In Progress	Penny for Pinellas	1/18/2023	Anita Wang
1181	Pinellas County / Public Works	Joe's Creek Greenway Trail and Stormwater Management	Joe's Creek Greenway Trail and Stormwater Management (004116A): This project is for preliminary engineering, design and construction of the Joe's Creek Greenway Trail, adjacent main channel improvements and implement projects identified by the watershed management plan for watershed wide flood protection, erosion control, and water quality improvements. These efforts are highly interdependent and will benefit from a coordinated single project approach, at least through the preliminary engineering phase. Projects include the Joe's Creek Greenway Trail, culvert upgrades, main channel improvements, treatment swales, and dry retention (at Joe's Creek Greenway Park) the and improvements affecting main channel tributary systems. / 1, 3	\$28,765,000	FY21-FY29 / In Progress	Penny for Pinellas and SWFWMD CFI Grant	1/18/2023	Anita Wang
1175	Pinellas County / Public Works	McKay Creek Watershed-wide Flood Reduction	McKay Creek Watershed-wide Flood Reduction (004117A): Implementation of the recommended capital improvement projects contained in the McKay Creek Watershed Management Plan (WMP) to provide an increased level of flood protection and improve water quality. / 1, 3	\$12,864,000	FY21-FY29 / In Progress	Penny for Pinellas, SWFWMD CFI Grant	1/18/2023	Anita Wang

Pinellas County  
Local Mitigation Strategy 2022-2023  
Appendix D, Table D-1: Mitigation Initiatives

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1172	Pinellas County / Public Works	Starkey Road Channel 8 Drainage Improvements	Starkey Road Channel 8 Drainage Improvements (004119A): Implementation of the recommended capital improvement projects contained in the Starkey Road Watershed Management Plan (WMP) to provide an increased level of flood protection and improve water quality. / 1, 3	\$1,468,000	FY22-FY26 / Not Started	Penny for Pinellas, SWFWMD CFI Grant, Municipal Partners, FDOT Grant	1/18/2023	Anita Wang
1148	Pinellas County / Public Works	Implementation of the Allen's Creek Watershed Management Plan Recommendations	Implementation of the Allen's Creek Watershed Management Plan Recommendations (004124A) Implementation of the recommended capital improvement projects contained in the Allen's Creek Watershed Management Plan (WMP) to provide an increased level of flood protection and improve water quality. The County will undertake highly ranked projects that primarily benefit unincorporated Pinellas County and will seek partnership opportunities with municipalities for other high priority recommended projects. WMP identified projects include culvert and channel upgrades on Belleair Road, Nursery Road and nearby streets.	\$1,963,640	FY2022 - FY2026 / Not Started	Penny for Pinellas, SWFWMD CFI Grant, Municipal Partners, FDOT Grant	1/18/2023	Anita Wang
1170	Pinellas County / Public Works	Implementation of the Brooker Creek Watershed Management Plan Recommendations	Implementation of the Brooker Creek Watershed Management Plan Recommendations (004099A) Implementation of the recommended capital improvement projects contained in the Brooker Creek Watershed Management Plan (WMP), including culvert and channel improvements, to provide an increased level of flood protection and improve water quality. The County will undertake highly ranked projects that primarily benefit unincorporated Pinellas County and will seek partnership opportunities with municipalities for other high priority recommended projects.	\$244,455	FY2023 - FY2029 / Not Started	Penny for Pinellas, SWFWMD CFI Grant, Municipal Partners, FDOT Grant	1/18/2023	Anita Wang
1188	Pinellas County / Public Works	Implementation of the Cross Bayou Canal Watershed Management Plan Recommendations	Implementation of the Cross Bayou Canal Watershed Management Plan Recommendations (004118A): Implementation of the recommended capital improvement projects contained in the Cross Bayou Watershed Management Plan (WMP) to provide an increased level of flood protection and improve water quality. The County will undertake highly ranked projects that primarily benefit unincorporated Pinellas County and will seek partnership opportunities with municipalities for other high priority recommended projects.	\$3,660,000	FY21-FY30 / Not Started	Penny for Pinellas, SWFWMD CFI Grant, Municipal Partners, FDOT Grant	1/18/2023	Anita Wang
1157	Pinellas County / Public Works	McKay Creek Operable Lake Controls and SCADA	McKay Creek Operable Lake Controls and SCADA (004134A): Preliminary engineering report to develop a lake level optimization plan utilizing real time data and SCADA operated control structures to for the McKay Creek watershed in order to provide increased flood protection for significant rainfall events. / 1	\$3,332,858.00	FY21-FY25 / In Progress	Penny for Pinellas , SWFWMD CFI, HMGP	1/18/2023	Anita Wang
1035	Pinellas County / Public Works	Cross Bayou Estates Drainage Phase 1	Cross Bayou Estates Drainage (001328A): Drainage improvements to alleviate residential structural and street flooding in the vicinity of Cross Bayou Estates. / 1	\$2,989,000	FY21-FY25 / In Progress	Penny for Pinellas	1/18/2023	Anita Wang
1035	Pinellas County / Public Works	Cross Bayou Estates Drainage	Cross Bayou Estates Drainage (001328A): Drainage improvements to alleviate residential structural and street flooding in the vicinity of Cross Bayou Estates. / 1	\$7,506,000	FY21-FY29 / In Progress	Penny for Pinellas	1/18/2023	Anita Wang
1035	Pinellas County / Public Works	Cherokee Drive (48th Avenue N) from 113th Street North to 112th Street North Drainage Improvements	Cherokee Drive (48th Avenue N) from 113th Street North to 112th Street North Drainage Improvements (002115A):The existing stormwater infrastructure system will be upgraded and expanded to address flooding; curbing will be installed to facilitate effective drainage.Some roads with subgrade and groundwater intrusion issues will be reconstructed and protected to extend their service lives. / 1	\$2,562,000	FY21-FY26 / In Progress	Penny for Pinellas	1/18/2023	Anita Wang
1130	Pinellas County / Public Works	South Myrtle Avenue Drainage Improvements from Clearwater Largo Road to Belleair Road	South Myrtle Avenue Drainage Improvements from Clearwater Largo Road to Belleair Road (002434A): Inadequate roadway drainage results in ponding of stormwater on the road. / 1	\$1,410,000	FY21-FY23 / In Progress	Penny for Pinellas	1/18/2023	Anita Wang
1215	Pinellas County / Public Works	Baypointe Stormwater Conservation Area	Baypointe Stormwater Conservation Area (003435A): Regional stormwater management facility providing stormwater storage, flood protection, attenuation, and treatment; habitat restoration, creation, and mitigation; and opportunities for park, open space, passive recreation, and public education / 1,3	\$3,844,000	FY21-FY24 / In Progress	Penny for Pinellas and SWFWMD CFI Grant	1/18/2023	Anita Wang
887	Pinellas County / Public Works	Oakwood Drive over Stephanie's Channel Bridge Replacement	Oakwood Drive over Stephanie's Channel Bridge Replacement (001035A) / 1, 3	\$2,613,000	FY21-FY23 / In Progress	Penny for Pinellas	1/18/2023	Anita Wang
941	Pinellas County / Public Works	MSTU Crystal Beach Paving & Drainage Improvements	MSTU Crystal Beach Paving & Drainage Improvements (002932A)	\$1,500,000	FY21-FY22 / In Progress	Penny for Pinellas	1/18/2023	Anita Wang
1055	Pinellas County / Public Works	Public Works Project Evaluation	A Service Request will be initiated through the Public Works Department to perform further analysis for issues requiring additional evaluation. Maintenance measures and minor infrastructure improvements may be implemented where possible to mitigate stormwater management issues of flooding and erosion. Capital improvement projects may also be identified. / 1, 3	\$300,000	FY2020 - FY2029 / In Progress	Surface Water Utility Fund	1/18/2023	Rhonda Bowman
881	Pinellas County / Public Works	Lakeshore Estates Phase 2 Roadway and Drainage Improvements	Lakeshore Estates Phase 2 Roadway and Drainage Improvements (001177B): Improvements to the existing stormwater system and road are required to alleviate flooding in portions of Lakeshore Estates. / 1	\$4,517,000	FY21-FY22 / In Progress	Penny for Pinellas	1/18/2023	Anita Wang
1020	Pinellas County / Public Works	Granger Drive Drainage Improvements	Granger Drive Drainage Improvements (001638A): Channel improvement and culvert upgrades to address flooding. / 1	\$701,000	FY21-FY23 / In Progress	Penny for Pinellas	1/18/2023	Anita Wang

Pinellas County  
Local Mitigation Strategy 2022-2023  
Appendix D, Table D-1: Mitigation Initiatives

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1130	Pinellas County / Public Works	Stormwater Conveyance System Improvement Program (921321)D	Storm Sewer Pipeline Rehabilitation and CIPP (002064A): Annual program to replace/line inadequate or deteriorating stormwater conveyance systems in municipal boundaries in Pinellas County. / 1	\$7,672,000	FY21-FY27 / In Progress	Penny for Pinellas	1/18/2023	Anita Wang
							1/18/2023	
932	Pinellas County / Public Works	Bee Branch Phase 3	Bee Branch Phase 3 Erosion Control (002121C) / 1, 3- Design and construction of bank stabilization and erosion control along Bee Branch from the west side of 15th St westward to 14th St. / 3	\$2,827,000	FY21-FY24 / In Progress	Penny for Pinellas	1/18/2023	Anita Wang
1020	Pinellas County / Public Works	Roosevelt Channel 5 Improvements	Roosevelt Channel 5 Improvements (002123A): Channel dredging, restoration and stabilization, removal of salinity barrier. / 1, 3 (Construction anticipated in FY20. FY19-25 budget updated, source: FY20-25 Governmental Capital Budget)	\$5,700,000	FY21-FY23 / In Progress	Penny for Pinellas, Surface Water Utility Fund, SWFWMD CFI	1/18/2023	Anita Wang
1269	Pinellas County / Public Works	Cross Bayou Improvements Phase 1	Cross Bayou Improvements Segment 1 (002124A): Improve conveyance through Cross Bayou Canal to reduce duration of flooding. Channel dredging, restoration, and bank stabilization. / 1, 3	\$8,693,000	FY21-FY25 / In Progress	Penny for Pinellas	1/18/2023	Anita Wang
830	Pinellas County / Public Works	Cross Bayou Channel 2 - Rena Dr. (1821)H	N Rena Drive Drainage Improvements North of Ulmerton Road & West of 66th Street N (002227A): Improve Cross Bayou Channel 2 from 66th St. to Pinecrest Subdivision. / 1	\$50,000	FY20 / On Hold	Penny for Pinellas	1/18/2023	Anita Wang
1076	Pinellas County / Public Works	Taylor Lake Seawall Replacement	Taylor Lake Seawall Replacement (002228A): Replace failing seawall along the south side of 8th Avenue SW, repair and replace pedestrian facilities, provide drainage improvements and erosion control measures along roadway and in the vicinity of the weir structure. / 1, 3, 4	\$2,730,000	FY21-FY23 / In Progress	Penny for Pinellas	1/18/2023	Anita Wang
990	Pinellas County / Public Works	Surface Water Pipe Lining/Remove & Replace	Surface Water Pipe Lining/Remove & Replace (002625A): Annual program to replace/line inadequate or deteriorating stormwater conveyance systems in unincorporated areas of Pinellas County. / 1	\$14,558,000	FY21-FY26 / In Progress	Surface Water Utility Fund	1/18/2023	Anita Wang
							1/18/2023	
1073	Pinellas County / Public Works	Flood Prevention Program	Flood Prevention Program (003800A): Annual program to implement recommendations from WMPs and other studies. / 1, 3	\$5,714,000	FY21-FY30 / In Progress	Penny for Pinellas	1/18/2023	Anita Wang
1091	Pinellas County / Public Works	Creek, Channel, Erosion Control Program	Creek, Channel, Erosion Control Program (003810A): Ongoing program to address erosion and bank stabilization / 3	\$1,593,000	FY21-FY30 / In Progress	Penny for Pinellas	1/18/2023	Anita Wang
932	Pinellas County / Public Works	Mullet Creek	Mullet Creek Channel B Bank Stabilization (003894A): Repair and stabilize creek banks, install erosion control measures along Mullet Creek near McMullen Booth Road and Cypress Trace Drive. This project will improve the conveyance capacity of the creek and protect the infrastructure from future erosive damage. / 1, 3	\$1,962,000	FY21-FY23 / In Progress	Penny for Pinellas	1/18/2023	Anita Wang
1008	Pinellas County / Public Works	Chenango Ave - Sedeeva Street Drainage Improvements	Chenango Ave - Sedeeva Street Drainage Improvements (003895A): Drainage improvements to address flooding in the vicinity of Chenango Ave and Sedeeva Cir / 1, 3	\$1,042,000	FY21-FY24 / In Progress	Penny for Pinellas	1/18/2023	Anita Wang
1026	Pinellas County / Public Works	Crystal Beach Drainage Improvements	Crystal Beach Drainage Improvements (003896A): Improve the stormwater collection system and add green infrastructure to alleviate frequent street flooding, improve water quality and enhance the Crystal Beach community between Crystal Beach Ave and Florida Blvd. / 1, 3	\$5,456,000	FY21-FY26 / In Progress	Penny for Pinellas	1/18/2023	Anita Wang
1170	Pinellas County / Public Works	Anclote Road Roadway and Stormwater Improvements	Anclote Road Roadway and Stormwater Improvements (003897A): Drainage and Roadway Improvements to address flooding hot spots; includes sidewalks and multi-modal transportation options along Anclote Road. / 1, 3	\$7,930,000	FY21-FY27 / In Progress	Penny for Pinellas	1/18/2023	Anita Wang
1116	Pinellas County / Public Works	Lakeview and Keene Rd Drainage Improvements	Lakeview and Keene Rd Drainage Improvements (003898A): Drainage improvements to address structural and yard flooding near Lakeview Rd and Keene Rd. Intersection improvements include extending the E-W left turn storage capacity and Mast Arm installation. / 1	\$3,715,000	FY21-FY25 / In Progress	Penny for Pinellas	1/18/2023	Anita Wang
1076	Pinellas County / Public Works	98th Way - 100th Way Drainage Improvements	98th Way - 100th Way Drainage Improvements (003899A): Improve the stormwater collection system and outfall to Long Bayou to address flooding in the vicinity of 98th Way - 100th Way. Improve drainage along Pinellas Trail to include replacement of deep ditches. / 1, 3	\$3,770,000	FY21-FY25 / In Progress	Penny for Pinellas	1/18/2023	Anita Wang
1000	Pinellas County / Public Works	Acquisition of Repetitive Loss Properties	Purchase repetitive loss properties in unincorporated Pinellas County to mitigate losses. Estimated completion time: more than 12 months. / 1	\$36,100,000	Currently Unfunded	HMGP, PDM, FMA	1/18/2023	Lisa Foster
960	Pinellas County / Public Works	Repetitive Loss Area Analysis and Mitigation Projects Evaluation	Develop a detailed mitigation plan for repetitive loss areas and identify potential mitigation projects, develop scopes of work, budgets, and cost-benefit analyses for each. Estimated completion time: less than one year	\$25,000	Currently Unfunded	Surface Water Assessment and HMGP	1/18/2023	Lisa Foster
1205	Pinellas County / Public Works	Floodplain models for extreme events	Develop a simplified rain-on-grid family of storms flood models to see predicted inundation from severe rain events (exceeding standard 100 year event) for improved flood warning and response.	\$225,000	Currently Unfunded	Surface Water Assessment and HMGP	1/18/2023	Lisa Foster



Pinellas County  
Local Mitigation Strategy 2022-2023  
Appendix D, Table D-1: Mitigation Initiatives

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1197	Pinellas County / Public Works	Real-time flood forecasting	Develop a real-time flood forecasting model to predict flooding from NWS rainfall and NOAA tide predictions for improved flood warning and response.	\$500,000	Currently Unfunded	Surface Water Assessment and HMGP	1/18/2023	Lisa Foster
1205	Pinellas County / Public Works	Rain and stream gage data correlation with flooding	Develop rain and stream gage data correlation to predict flooding in vicinity of existing stream gages and develop response procedures for gage levels at each location for improved flood warning and response.	\$150,000	Currently Unfunded	Surface Water Assessment and HMGP	1/18/2023	Lisa Foster
981	Pinellas County / Public Works	Whitney Road and Wolford Road intersection and Roadway Improvements (002109A)	Whitney Road and Wolford Road intersection and Roadway Improvements (002109A) / 1:The existing stormwater infrastructure system will be upgraded and expanded to address flooding.	\$6,147,000	FY21-FY23 / In Progress	Penny for Pinellas	1/18/2023	Anita Wang
1080	Pinellas County / Public Works	Regional Stormwater Facilities (004126A)	Regional Stormwater Facilities (004126A) - Design and construction of regional stormwater management facility to provide stormwater storage, attenuation and treatment.	\$3,061,000	FY21-FY26 / In Progress	Penny for Pinellas	1/18/2023	Anita Wang
1026	Pinellas County / Public Works	Drainage Improvements on Pinebrook Canal between 142nd Avenue and Ulmerton Road (002119A)	Drainage Improvements on Pinebrook Canal between 142nd Avenue and Ulmerton Road (002119A)/ Reduce flooding at Pinewood Villas through conveyance improvements. / 1	\$30,000	FY20 / Planned (On Hold)	Penny for Pinellas	1/18/2023	Anita Wang
1080	Pinellas County / Public Works	Lealman Regional Stormwater Facility (003001C)	Lealman Regional Stormwater Facility (003001C) - Design and construct regional stormwater facilities in the Lealman Community Redevelopment Area (CRA) / 1	\$3,629,000	FY21-FY24 / In Progress	Penny for Pinellas	1/18/2023	Anita Wang
1161	Pinellas County / Utilities	Back Up Power and Pumping Equipment for Sewer Pumping Stations	Improve infrastructure resiliency to natural hazards by installing back up power and/or permanent bypass pumping at sewer pumping stations to maintain sewer transmission during emergency events. /4	\$2,500,000	FY18 – FY20 / Unfunded	HMGP, PDM	1/18/2023	Nory Hancock
978	Pinellas County / Utilities	Force Main Sampling Equipment to Improve Sanitary Sewage Collection Process	The South Cross Bayou Water Reclamation Facility (SCBWRF) treats sanitary sewage collected from (4) different and independent collection system basins located in southern Pinellas County. There have been occurrences of monitored parameters exceeding the allowable limits in the influent ('hits'). Most recently these have included lead and copper, and other unknown compounds that have caused upsets in the treatment process. Although the County's IPP group is notified, there is no effective mechanism in-place that can quickly help identify the source(s) of these 'hits'. This equipment will help track those sources and potentially prevent them from causing a negative effect on the quality of the treatment process, reclaimed water and surface water discharge. /1	\$450,000	FY19 – FY20 / Unfunded	HMGP	1/18/2023	Nory Hancock
1118	Pinellas County / Utilities	Drinking Water Facility Security Equipment	Installing additional pan and zoom cameras at drinking water facilities to cover blank areas. Provide remote gate control and install perimeter fencing. /1, 2	\$250,000	FY19 – FY20 / Unfunded	HMGP	1/18/2023	Nory Hancock
1220	Pinellas County/Utilities	Hardening of North Booster Pump Station	Harden building envelope of major water booster station to withstand hurricane winds. /1,2	\$6,000,000	Currently unfunded	CBDG-MIT, BRIC	1/18/2023	Thomas Menke
1064	Pinellas County	Palm Harbor Community Service Agency-Multi-Use Facility Replacement of Existing Facility	The Palm Harbor Community Service Agency (PHCSA) operates a community center at 1500 16th St. in Palm Harbor. The Center has two buildings which house programs that serve the needs of approximately 62,000 members of the community including senior activities, indoor youth activities, summer camps, event space, community meeting space, instructional space and administrative offices. The original building was built in 1978. It is approximately 9,000 SF and has been retrofitted numerous times to fit the ongoing demands of the community. The facility has outlived its design life and is a candidate for replacement. Currently the project is unfunded but, is programmed in the Penny IV outer years. The site is adjacent to Pinellas County School Board property for Palm Harbor University High School (a designated shelter) and is located in a non-evacuation zone for storm surge. The location of this facility makes it ideal for use as an at risk shelter for hurricanes. If constructed to ARC 4496 standards with backup generation and well capability, this site could provide an additional 800 shelter spaces for general populations during a storm event and be utilized as a step-down shelter post-event for 115 people. The County currently has a shelter deficit for category 4 and 5 storms. After Hurricane Irma it was identified that non-school facilities are needed to be able to move people that still require shelter assistance./1,2	\$8,000,000	Currently Unfunded	Penny for Pinellas IV & HMGP	1/18/2023	Nancy McKibben, MPA, CPM Assistant to the County Administrator Representing the Communities of Unincorporated North County Direct: (727) 464-4812 Mobile: (727) 409-0762 Email: nmckibben@pinellascounty.org
1052	Pinellas County	Palm Harbor Community Service Agency-Multi-Use Facility Hardening of Existing Facility	The PHCSA also operates a second, considered the Main building, on the same site - 1500 16th St. in Palm Harbor. The Center offers programs that serve the needs of approximately 62,000 members of the community including senior activities, indoor youth activities, summer camps, event space, community meeting space, instructional space and administrative offices. The Main building was built in 1999. It is approximately 10,000 SF. Recommendations are for the Main Building to serve as a shelter for a tropical storm for up to 300 people or as a step-down shelter for about 100 people. This facility currently has a commercial kitchen with some natural gas powered appliances but would benefit from a generator to supply the lighting, air conditioning, and the remaining kitchen appliances. The site has an irrigation well that, with the appropriate work, could serve as a backup water supply. Window and door protection would enhance the building to reduce damages during a storm and may provide for utilization during hurricanes. This site would be ideal to help support Special Needs populations with the appropriate mitigation./1,2	\$5,500,000	Currently Unfunded	Penny for Pinellas IV & HMGP	1/18/2023	Nancy McKibben, MPA, CPM Assistant to the County Administrator Representing the Communities of Unincorporated North County Direct: (727) 464-4812 Mobile: (727) 409-0762 Email: nmckibben@pinellascounty.org
1335	Pinellas County / Public Works / Transportation Division	Stock Generators	A countywide benefit: To assist with the safety and welfare of citizens, the stock generators will provide a temporary, long-term power source to traffic signals throughout the county in the event of a natural disaster or emergency where there is power loss. Generators are utilized for long-term relief for larger intersections that require more power. Additionally, generators will be used as a temporary source of power supply for public works crews who are responding post-storm. 25% match funding could be acquired from Pinellas County Gas Tax. Hazards Addressed: All Hazards 50 Honda EU3000iS Super Quiet Light Weight Inverter 3000W 120V Fuel Efficient Generator: <a href="http://www.electricgeneratordepot.com/honda-super-quiet-light-weight-inverter-3000w-120v-fuel-efficient-generator-with-parallel-capability-and-oil-alert-5880">http://www.electricgeneratordepot.com/honda-super-quiet-light-weight-inverter-3000w-120v-fuel-efficient-generator-with-parallel-capability-and-oil-alert-5880</a>	\$116,498	Currently Unfunded	HMGP	1/18/2023	

Pinellas County  
Local Mitigation Strategy 2022-2023  
Appendix D, Table D-1: Mitigation Initiatives

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1053	Pinellas County / Public Works	Cross Bayou Floodplain Restoration and Mitigation	<p>The Cross Bayou Floodplain Restoration and Mitigation Project includes the acquisition of two properties; the removal of 94 manufactured homes, an office building, and two commercial structures; the removal of all infrastructure associated with the mobile home park and commercial property; and the restoration of over 10 acres into a green space that will provide for floodplain, stormwater, and other ecosystem services, and recreational opportunity.</p> <p>The PreFIRM mobile home park and commercial business to the south were developed in a low lying area along Cross Bayou, a tidally influenced creek in the Cross Bayou watershed. There are 95 structures in the park, including the manufactured homes and office. Over 85% of the mobile home park and the entire commercial lot flood with a mean annual rain event. Over 95% of the park becomes inundated with a 10 year event with depths in areas of the park reaching 3 ft and over 4 ft, respectively. The entire property is inundated with a 100 year storm with depths up to 6 feet in areas.</p> <p>This project will remove 97 structures from the 25, 50, and, 100 year floodplains and restoration of the property will provide areas for natural floodplain functions, including additional floodplain storage, water quality treatment, addition of habitat, and recreational features.</p>	\$5,000,000	Currently Unfunded	HMGP	1/18/2023	Lisa Foster
1053	Pinellas County / Public Works	Lower Bee Branch Drainage Improvements and Caladesi Repetitive Loss Area Acquisition	<p>The Lower Bee Branch Bypass Drainage Improvements and Caladesi Repetitive Loss Area Acquisition project mitigates hazards from both Inland and Coastal flooding. The project is comprised of structural drainage improvement / stream restoration component (Alternative 3) and a repetitive loss acquisition / water quality pond / natural wetland creation components (Alternative 5) of the attached Drainage Study for Lower bee Branch Bypass.</p> <p>The Lower Bee Branch Bypass structural drainage improvements / stream restoration component reduces flooding by as much as 2.6 feet for the 100-year/24-hour freshwater flood event. This is a capital improvement project for a double box culvert structure to bypass flood flows from Bee Branch near the north end of Hidden Brook Drive to downstream of the existing culverts under Pennsylvania Avenue. The box culvert would run under Virginia Avenue and Pennsylvania Avenue staying within existing rights-of-way where possible. The existing stream bed is ecologically restored and will continue to carry normal low-flows. Collectively, drainage system capacity is greatly increased. The estimated cost of the Lower Bee Branch Bypass Drainage Improvements is \$6.5M based on estimate for Alternative 3.</p> <p>The Caladesi Repetitive Loss Area Acquisition component acquires the 5.5 acre Caladesi RV Park property, vacates 6 buildings and approximately 90 mobile home / recreational vehicle from the 100- floodplain and constructs an ecologically enhanced regional retention / water quality treatment pond facility in its place. The pond system will enhance water quality in the estuary through biological nutrient uptake in created wetlands and also capture sediments. The estimated cost of this repetitive loss property acquisition component is estimated as approximately \$2.2M based on estimate for Alternative 5.</p>	\$8,700,000	Currently Unfunded	HMGP	1/18/2023	Lisa Foster
1179	PC / Public Works	Re-establish Coastal Benchmarks in Pinellas County	<p>There is approximately 23 miles of coastal beach from Pass-a-grille to Sand Key Bridge where most coastal benchmarks with elevations have been destroyed. Estimate approximately \$4,500 per mile to re-establish coastal benchmarks for all 23 miles for a total of approximately \$104,000 (for the survey bench run and bluebooking) plus approximately \$28,000 for the monuments plus project management time. Total estimate \$150k. Funding requested is to start re-establishing benchmarks for 5 to 10 miles along the coast for \$40,000. Further funding would be sought to complete the project over the next several years.</p>	\$150,000	Currently Unfunded	HMGP	1/18/2023	Rhonda Bowman
1100	Pinellas County / Public Works	Lake Seminole Watershed Management Plan	Evaluate drainage patterns within watershed; identify flooding locations; develop BMPs to address the issues. / 1, 3	300,000	In Progress	Surface Water Utility Fund and SWFWMD CFI Gran	1/18/2023	Anita Wang
1080	Pinellas County / Public Works	Palm Harbor Regional Stormwater Facility Improvements (004243A)	Palm Harbor Regional Stormwater Facility Improvements (004243A): Regional pond for stormwater management including water quality and attenuation.	6,600,000	In Progress	Penny for Pinellas, SWFWMD CFI	1/18/2023	Anita Wang
1073	Pinellas County / Public Works	Stormwater Quality Program PIV (004296A)	Stormwater Quality Program PIV (004296A): Preliminary engineering to identify water quality improvement project opportunities.	3,000,000	In Progress	Penny for Pinellas, SWFWMD CFI	1/18/2023	Anita Wang
999	Pinellas County / Public Works	Stevensons Creek Channel Reconstruction (005541A)	Stevensons Creek Channel Reconstruction (005541A): Channel improvement project for flood reduction and water quality improvements.	5,000,000	Planning	Penny for Pinellas	1/18/2023	Anita Wang
969	Pinellas County / Public Works	Spring Branch Floodplain Preservation and Habitat Improvement Area (005542A)	Spring Branch Floodplain Preservation and Habitat Improvement Area (005542A): Spring Branch watershed habitat /water quality improvement project.	8,000,000	Planning	Penny for Pinellas	1/18/2023	Anita Wang
981	Pinellas County / Public Works	Sutherland Area Drainage Improvements (005585A)	Sutherland Area Drainage Improvements (005585A): Neighborhood drainage improvement project.	4,100,000	In Progress	Penny for Pinellas, HMGP	1/18/2023	Anita Wang
992	Pinellas County / Public Works	Pinellas Trail Green Infrastructure at Wall Springs Park (005586A)	Pinellas Trail Green Infrastructure at Wall Springs Park (005586A): Water quality improvement project.	800,000	In Progress	Penny for Pinellas, SWFWMD CFI	1/18/2023	Anita Wang
1040	Pinellas County / Public Works	Bee Branch Erosion Control - Omaha to Outfall (005587A)	Bee Branch Erosion Control - Omaha to Outfall (005587A): Channel improvement project for flood reduction and water quality improvements.	2,400,000	In Progress	Penny for Pinellas	1/18/2023	Anita Wang
1004	Pinellas County / Public Works	Lealman Drainage Improvements (006028A)	Lealman Drainage Improvements (006028A): Drainage improvements on and around 33rd Way N and 33rd St N in Lealman.	700,000	In Progress	ARPA	1/18/2023	Anita Wang
1004	Pinellas County / Public Works	Riverside Dr Drng Imp (sub-project 001037B)	Riverside Dr Drng Imp (001037B)	500,000	In Progress	Penny for Pinellas	1/18/2023	Anita Wang
1062	Pinellas County / Public Works	Allen's Creek Ch 5 - Belleair (sub-project 001221A)	Allen's Creek Ch 5 - Belleair (sub-project 001221A)	700,000	In Progress	Penny for Pinellas, HMGP	1/18/2023	Anita Wang
1004	Pinellas County / Public Works	Bogie Lane Drainage Imp (sub-project 003132A)	Bogie Lane Drainage Imp (Sub-project 003132A)	600,000	In Progress	Penny for Pinellas, HMGP	1/18/2023	Anita Wang
1004	Pinellas County / Public Works	Curtis Drive Drainage Improvements (sub-project 004511A)	Curtis Drive Drainage Improvements (Sub-project 004511A)	900,000	In Progress	Penny for Pinellas, HMGP	1/18/2023	Anita Wang
1004	Pinellas County / Public Works	Wayfair Court Drainage Improvements (Florida Ave) (sub-project 004510A)	Wayfair Court Drainage Improvements (Florida Ave) (sub-project 004510A)	400,000	In Progress	Penny for Pinellas, HMGP	1/18/2023	Anita Wang
1004	Pinellas County / Public Works	86th Ave N Drainage Improvements (sub-project 004533A)	86th Ave N Drainage Improvements (sub-project 004533A)	200,000	In Progress	Penny for Pinellas, HMGP	1/18/2023	Anita Wang
1004	Pinellas County / Public Works	Imperial Point Sub Drainage Improvements (sub-project 004509A)	Imperial Point Sub Drainage Improvements (sub-project 004509A)	500,000	In Progress	Penny for Pinellas, HMGP	1/18/2023	Anita Wang

Pinellas County  
Local Mitigation Strategy 2022-2023  
Appendix D, Table D-1: Mitigation Initiatives

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1133	PC / Transportation Division of Public Works	Dunedin Causeway Bridges Project	The bridge, located off of S.R. 586 is the sole connection of the City of Dunedin to Honeymoon Island State Park and residential living. The bridge is also an evacuation route. The bridge past its design and useful life. Needs replacing. Both bridges were constructed in 1963.	\$89 Million	Currently Unfunded	Funding could potentially come from the Capital Improvement Program within the Infrastructure Sales Tax (Penny for Pinellas)	1/18/2023	Alexis Ferguson
1106	PC / Transportation Division of Public Works	San Martin Bridge	The bridge is located over Riviera Bay, from Tallahassee Drive to Weedon Drive in St. Petersburg. The project includes trail improvements to enhance travel for all modes of transportation. Bridge is past its design and useful life. Needs replacing. The bridge was constructed in 1962.	Design - \$1M Construction - \$12M	Currently Unfunded	Funding could potentially come from the Capital Improvement Program within the Infrastructure Sales Tax (Penny for Pinellas)	1/18/2023	Alexis Ferguson
1146	PC / Transportation Division of Public Works	Beckett Bridge	The bridge, located over Whitcomb Bayou in the city of Tarpon Springs, connects residents to the evacuation route of alt U.S. 19. Construction and replacement of bridge that is past its useful life. Originally constructed in1956.	\$18 Million - Construction	Currently Unfunded	Funding could potentially come from the Capital Improvement Program within the Infrastructure Sales Tax (Penny for Pinellas)	1/18/2023	Alexis Ferguson
1134	PC / Transportation Division of Public Works	13th Street Bridge over Pine Key	The bridge, located in the unincorporated area of Tierra Verde (TV), connects the TV community to the evacuation routes of the Pinellas Bayway (State Highway 679). Bridge its past is design and useful life. Needs replacing. Built in 1957.	\$3.5 Million	Currently Unfunded	Funding could potentially come from the Capital Improvement Program within the Infrastructure Sales Tax (Penny for Pinellas)	1/18/2023	Alexis Ferguson
1134	PC / Transportation Division of Public Works	Madonna Blvd Bridge over Pine Key	The bridge, located in the unincorporated area of Tierra Verde (TV), connects the TV community to the evacuation routes of the Pinellas Bayway (State Highway 679). Bridge its past is design and useful life. Needs replacing. Built in 1957.	\$4 Million	Currently Unfunded	Funding could potentially come from the Capital Improvement Program within the Infrastructure Sales Tax (Penny for Pinellas)	1/18/2023	Alexis Ferguson
1161	PC / Transportation Division of Public Works	Orange Street Bridge	The bridge, located near an evacuation route on Alt. U.S. 19 in the unincorporated area of Palm Harbor, connects Ozona community to the evacuation routes of Alt. U.S. 19 and Tampa Road. The bridge is past its design and useful life. Needs replacing. Built in 1923.	\$2.5 Million	Currently Unfunded	Funding could potentially come from the Capital Improvement Program within the Infrastructure Sales Tax (Penny for Pinellas)	1/18/2023	Alexis Ferguson
1215	PC / Transportation Division of Public Works	Shore Blvd Bridge	The bridge, located along an evacuation route on S.R. 580 in the city of Safety Harbor, connects the countryside area of the county with Oldsmar and East Lake. The bridge is past its design and useful life. Needs replacing. Built in 1923.	\$2.5 Million	Currently Unfunded	Funding could potentially come from the Capital Improvement Program within the Infrastructure Sales Tax (Penny for Pinellas)	1/18/2023	Alexis Ferguson
1272	PC / Transportation Division of Public Works	Span Wire Intersection Replacement Program/Traffic Signal Hardening (24 Locations - see project list PDF)	Replacement of existing span wire intersections with mast arms made of galvanized steel. Intersections are along major evacuation routes throughout Pinellas County. 24 intersections in need of funding, at approximately \$800k per intersection for construction. Estimated completion time: more than 12 months.  This project is a countywide benefit; by having a more robust system in place this will improve the safe, efficient flow of traffic countywide in the event of a storm or flood. Traffic signals hung by span wire are susceptible to damage or falling due to strong wind. The fall of span wire results in traffic signals becoming inoperable and potentially blocking vehicle access on the road. Mast arm signals in place of span wire at these intersections located on evacuation routes will allow for the roads to remain open and for emergency personnel to have better access to support citizen needs.	Estimated average cost of \$800k per intersection for construction. (24 total intersections). Total approx. project cost estimate for 9 of these intersections that are currently prioritized for implementation - \$5,815,203.13	Currently Unfunded (24 intersections)	Potential match funding from the Capital Improvement Program PID 004152A Intersection Program	1/18/2023	Alexis Ferguson
1325	PC / Transportation Division of Public Works	Building 5 Upgrades at Public Works Campus	Requested funding of \$3.75 million to elevate and reconstruct the building as a Category 5 facility that can provide emergency operations countywide and be habitable by staff. Elevating and reconstructing the building will alleviate future repetitive loss.	\$3.75 Million	Currently Unfunded	Funding could potentially come from the Capital Improvement Program within the Infrastructure Sales Tax (Penny for Pinellas)	1/18/2023	Alexis Ferguson
933	Pinellas Park / City of Pinellas Park Public Works Department	Stormwater Project: 60th St Roadway, Utilities & Drainage Improvements	Improvement of drainage and related infrastructure along 60th Street N. from 102nd Avenue N. to 110th Avenue N., including culverting existing ditches, installing sidewalks, replacement of existing asbestos concrete water main with new 6" PVC, and reconstruction of existing roadway. /1	\$3,220,000	Design phase funded FY 22/23. Construction phase currently unfunded.	IST, CDBG, FDEP, Stormwater Utility Fee	1/18/2023	Suzanne Boisvert



Pinellas County  
Local Mitigation Strategy 2022-2023  
Appendix D, Table D-1: Mitigation Initiatives

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1199	Pinellas Park /City of Pinellas Park Fire Department	Fire Station 16	Relocation / construction of fire station ./4	\$6,750,000	Currently unfunded	IST, Pinellas County, HMGP, FEMA Grant, Local coffers	1/18/2023	Suzanne Boisvert
1199	Pinellas Park /City of Pinellas Park Fire Department	Fire Station 34	Relocation / construction of fire station ./4	\$5,000,000	Currently unfunded	EMPATF, HMGP; PDM Program; & local funds	1/18/2023	Suzanne Boisvert
1199	Pinellas Park /City of Pinellas Park Fire Department	Fire Station 35	Relocation or construction of fire station ./4	\$7,000,000	Currently unfunded	IST, Pinellas County, HMGP, FEMA Grant, Local coffers	1/18/2023	Suzanne Boisvert
1068	Pinellas Park / City of Pinellas Park Public Works Department	Park Station Hardening and Generator	HMGP 4337-337-R (State ID #588 / Contract #H0486) Park Station is a critical asset to the community and is essential to providing continued services before, during, and after a disaster. In an effort to protect property and become a more disaster resilient community, the proposed project includes hardening of Park Station to include the roof, opening protection, and installation of a permanent generator.	\$825,000	Project approved & contract signed with FDEM. Selection process underway for engineering consultant.	HMGP	1/18/2023	Suzanne Boisvert/Majko
1061	Pinellas Park / City of Pinellas Park Public Works Department	Barbara S. Ponce Library Hardening and Generator	(HMGP 4337-590) Hardening of Barbara S. Ponce Library to include roof, walls, opening protection and installation of a permanent generator. Project combined with HMGP 4337-503-R / State ID #589)	\$1,075,000	Combined with HMGP 4337-503 (State ID #589) Public Facilities Wind HMGP Retrofit and Generator.		1/18/2023	Suzanne Boisvert
1124	Pinellas Park / City of Pinellas Park Public Works Department	Sixteen Public Facilities Wind Retrofit and Generator (formerly Installation of Shutters at City Buildings)	HMGP 4337-503-R (State ID#589) The proposed project will consist of hardening windows and doors at sixteen City-owned properties through the installation of shutters. Additionally, the Barbara S. Ponce Library (formerly a separate project) will undergo hardening to include wind mitigation to the roofing system (anchoring and fastening), water barrier activities, and the installation of a permanent generator. (Separate projects were combined following FDEM and FEMA review: HMGP-4337-589 Shutter Installation and HMGP-4337-590 Barbara S. Ponce Library Retrofit and Generator Installation into the current project HMGP-4337-503-R Sixteen Public Facilities Wind Retrofit and Generator.)	\$1,362,920	Project approved by FEMA / contract pending.	HMGP	1/18/2023	Suzanne Boisvert/Majko
890	Pinellas Park / City of Pinellas Park Fire Department	Community Emergency Response Team (CERT).	Supply CERT Training to 60 trainees. Estimated completion time: less than 12 months. / 4 ; Project still under consideration. Time frame unknown. To be determined by funding availability and community interest.Project still under consideration. Time frame unknown. To be determined by funding availability and community interest.	\$30,000	Currently Unfunded. Time frame unknown.	EMPATF, HMGP; PDM Program, and local funds (i.e., Penny for Pinellas)	1/18/2023	Suzanne Boisvert
970	Pinellas Park / City of Pinellas Park Public Works Department	Forbes Recreation Center-Structure Hardening	Harden the recreation center to temporarily house emergency critical employees during and after a storm event. Estimated completion time: more than 12 months. / 2	\$775,000	Currently unfunded / FY 21/22 to FY 25/26.	EMPATF, HMGP; PDM Program; & local funds	1/18/2023	Suzanne Boisvert
980	Pinellas Park / City of Pinellas Park Fire Department	Fire Station 34	Fire Station #34 at its present location cannot effectively service the geographic area which it originally serviced due to unanticipated growth and expansion. It is necessary to either relocate FS 34 or construct another station to serve the western third of the community. /4	\$5,000,000	Currently unfunded / FY 21/22 to FY 25/26.	EMPATF, HMGP; PDM Program; & local funds	1/18/2023	Suzanne Boisvert
1020	Pinellas Park / City of Pinellas Park Public Works Department	Fairlawn Subdivision Drainage Improvements	(Phase 1 & 2) Install a stormwater collection and conveyance system in a subdivision originally developed in the County in the 1960s and 70s. This would eliminate issues of localized flooding and dangerous stormwater inlets. /1	3,500,000	Currently unfunded / FY 21/22 to FY 25/26.	Local Funds, SWFWMD Grant, EMPATF, HMGP; PDM CDBG.	1/18/2023	Suzanne Boisvert
816	Pinellas Park / City of Pinellas Park Public Works Department	Jan Cory Subdivision Infrastructure Improvements	Design and construct a drainage system within the subdivision which would include improving rural roads to provide curbing, culverting open conveyance systems, road improvements, sidewalk, and utility relocates and upgrades.	\$4,580,000	Currently unfunded / FY 21/22 to FY 25/26.	Local Funds, SWFWMD Grant, EMPATF, HMGP; PDM CDBG.	1/18/2023	Suzanne Boisvert

Pinellas County  
Local Mitigation Strategy 2022-2023  
Appendix D, Table D-1: Mitigation Initiatives

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846	Pinellas Park / City of Pinellas Park Public Works Department	Garnett Subdivision Drainage Improvements (Phase 2)	Garnett & North Disston Subdivisions - 40 acre +/- tract situated between 82nd Avenue 86th Avenue & 46th Street, 49th Street. Phase II project will improve drainage to the Garnett Subdivision and mitigate roadway ponding and flooding that occurs within this subdivision. Project includes 46th Street, 47th Street, 87th Avenue, 87th Terrace, and 88th Avenue; mills and repave 88th Avenue; total rebuild on 46th Street, 47th Street, 87th Avenue and 87th Terrace; update sidewalks to ADA standards in project area.	\$2,035,000	Project funded FY 21/22 to FY 25/26 CIP	CDBG, Stormwater fee	1/18/2023	Suzanne Boisvert
970	Pinellas Park / City of Pinellas Park Public Works Department	Public Safety Complex - Police and Fire Administration and Emergency Operations Center	Design, engineer, construct and equip Fire and Police Administration Public Safety Complex and Emergency Operations and Command Center. This centralized complex would combine facilities for Police Department and Fire Administration. The structure will be built to withstand natural threats, allow for centralized communications and operations, reduce costs and increase the efficiency of coordination between these entities. The complex will also serve as the first responders Emergency Operations Center and a secondary EOC for city operations.	\$23,000,000	Design and Site Prep: FY 21-22. Construction phase anticipated FY 22/23.	Bond Funds / Infrastructure Sales Tax	1/18/2023	Suzanne Boisvert
1322	Pinellas Suncoast Fire & Rescue District	Generator power for interim EOC	Two of the District's three fire stations are in a Level A evacuation zone in Pinellas County. The fire district does not have an Emergency Operations Center (EOC) and evacuations of fire stations and fire department administration requires all district operations move to a remote site located at the Indian Rocks Christian School. While this site is rated for Category 5 hurricane winds, the site does not have back-up power. The above project will place a generator and automatic power switch will enable uninterrupted emergency operations during and after a storm, making the fire district more disaster resilient.	\$278,978	Currently Unfunded	HMGP	1/18/2023	Todd Best, District Chief, Pinellas Suncoast Fire Rescue
1223	Pinellas Suncoast Fire & Rescue District	Construction of new fire station to meet current building standards in alternate location	Current fire station does not meet building standards. Natural disasters, such as hurricanes require district personnel, i.e. firefighters and paramedics to evacuate to a safer location. Evacuation of personnel and equipment significantly delays response to emergencies during and after storms or other disasters. Construction of a fire station meeting current building standards will allow emergency personnel to remain in the fire station during and after a storm, thereby improving response times and service to four barrier island communities and unincorporated mainland area.	\$4,000,000	Currently Unfunded	PDM	1/18/2023	
1311	REBUILD Northwest Florida, Inc.	Statewide Residential Wind Retrofit Project	REBUILD proposes to provide wind retrofits include protection for (1) roof-to-wall connections; (2) gable end bracing/sheathing; (3) opening protection and (4) other critical structural strengthening as determined a structural engineer for up to 3,000 homes in Pinellas County	\$30,000,000	Currently Unfunded	HMGP	1/18/2023	Chris Moore
909	Redington Beach / Public Works	Public Works Emergency Generator	Purchase and installation of new portable generator at the Public Works facility. The Town of Redington Beach is seeking funds that will provide an alternate electrical power source capable of running the Public Works facility's AC system as well as sufficient outlets to run additional equipment. / 1,2,4	\$1,000	Town Funded	Local	1/18/2023	Adriana Nieves
929	Redington Beach / Public Works	Rebuild Public Works Facility	The current Public Works facility does not meet current building codes as it was built in the 1940s. It is not rated for hurricane winds and is in a special flood hazard area. The building is not hardened and has significant space utilization issues. / 1, 2	2,500,00	Currently Unfunded	EMPATF, HMGP, Local	1/18/2023	Adriana Nieves
918	Redington Beach /Clerk's Office	Mitigate Repetitive Loss Properties	Requesting funds for the mitigation of noncompliant repetitive loss properties and pre-FIRM structures that are floodprone or at high risk/exposure to being flooded or experience wave action/erosion. / 1	\$1,500,000	Currently Unfunded	FMA	1/18/2023	Adriana Nieves
783	Redington Beach / Engineering	Underground Utilities	Place underground utilities along the west side of Gulf Boulevard from 155th Ave to 164th Ave. Estimated completion time: more than 12 months. / 2	\$4,000,000	Currently Unfunded	Penny for Pinellas	1/18/2023	Adriana Nieves
783	Redington Beach / Engineering	Underground Utilities	Place underground utilities along all interior streets east of Gulf Blvd. Estimated completion time: more than 12 months. / 2	\$2,000,000	Currently Unfunded	Penny for Pinellas	1/18/2023	Adriana Nieves
1146	Redington Beach / Public Works	EOC Generator	Purchase and installation of new portable generator at Redington Beach Town Hall / Emergency Operations Center. The Town of Redington Beach is seeking funds that will provide an alternate electrical power source capable of running Town Hall AC system as well as sufficient outlets to run additional equipment in the event of a power failure.1/2/4	\$3,000	Currently Unfunded	Local	1/18/2023	Adriana Nieves
782	Redington Beach / Engineering	Road Milling / Resurfacing	Road deterioration causes safety hazards and negatively impacts the attractiveness of the neighborhood. This project includes continuation of street milling and resurfacing, and includes updating the drainage system in the areas resurfaced. / 3	\$1,200,000	FY 22-23	SWFMD, local	1/18/2023	Adriana Nieves
1080	Redington Beach / Public Works	Stormwater Backflow Valve	Minimize flooding in the town's flood - prone areas. These areas frequently flood during major rain events and high tide. Clean stormwater pipes in entire Town, including video and mapping of stormwater pipes. Install backflow valves in the Town's 33 outfalls. Phase 1 complete - 15 valves installed, all pipes clean and mapped.	\$157,000	FY 21-22	TBEP Grant, Local	1/18/2023	Adriana Nieves
828	Redington Beach / Clerk's Office	Security Improvements to Town Hall	Replace exterior doors at Town Hall and install cameras for improved security. Install television and cable access for increased awareness in the event of weather or security events.	\$50,000	Currently unfunded	Local	1/18/2023	Adriana Nieves
941	Redington Beach / Engineering	Causeway Improvements	Raise 161st Avenue between Redington Drive and 4th Street to decrease frequency of flooding	\$2,000,000	Currently unfunded	HMGP, local	1/18/2023	Adriana Nieves
1022	Redington Beach / Public Works	GPS Inventory of Street Signs	Inventory all street and identification signs using GPS technology to facilitate replacement following a storm event. Estimated completion time: more than 12 months./ 4	\$9,000	Currently Unfunded	Local	1/18/2023	Adriana Nieves

Pinellas County  
Local Mitigation Strategy 2022-2023  
Appendix D, Table D-1: Mitigation Initiatives

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939	Redington Shores / Public Works	Lift Station Portable Emergency Generators	Purchase 3 trailer mounted 90KW/3 phase portable generators. These generators would be used to maintain operation of sewer lift stations during power outages.	\$140,000	Partial funding from town.	HMGP	1/18/2023	Michael Robinson
1240	Redington Shores / Flood Stormwater Planning	Create a Revised CRS program for the Town	Consultant to review/recommend program upgrades to flood management planning / 1 / 2	\$8,000	Town Funded	Local	1/18/2023	Luke Curtis
870	Redington Shores / Preservation / Parks area	Create a Beach (Erosion) Management plan.	Provide for plans and specifications to expand existing Dune System and Walkover use. Estimated completion time: more than 12 months. / 2	\$150,000	Currently Unfunded	CDBG; FMAP; HMGP; Nonpoint Source Implementation Grants; HMGP Planning	1/18/2023	Luke Curtis
820	Redington Shores / Public Works	Underground Utilities	Place underground electrical, telephone and cable utilities to all properties along Gulf Boulevard from 175th Avenue to 83rd Terrace West. Estimated completion time: more than 12 months. / 2	\$7,500,000	East Side Copleted	CDBG, Penny 4 Pinellas	1/18/2023	MaryBeth Henderson
960	Redington Shores / Public Works	Stomwater master improvement plan	Develop a SLR and master plan for upgrade and improvement of the town's entire stormwater system.	\$150,000	Town funded	local	1/18/2023	Luke Curtis
1049	Redington Shores / Public Works	Stormwater Infrastructure Improvements	In conjunction with developing a SLR and stormwater master plan for the town's entire stormwater system, upgrade 43 of the town's 216 stormwater outfalls that have been identified as those in most critical need of improvement.	\$425,000	Currently Unfunded	HMGP DR-4486, Town of Redington Shores	1/18/2023	Michael Robinson
1140	Safety Harbor / Public Works	Library Lift Station Repair	Complete renovation of Sanitary Sewer Liftstation. Failure of this lift station would not only impact the delivery of sanitary sewer service but could also lead to backup of sewage into homes and overflow into Tampa Bay.	\$75,000	FY22/23	Local funding	1/18/2023	Cecilia Chen
1176	Safety Harbor / Public Works	Gulf Machinery Station Repair	Complete Renovation of Sanitary Sewer Lift Station. / 1,2	\$85,000	FY 23/24	Local funding	1/18/2023	Cecilia Chen
1270	Safety Harbor / Public Works	Harbor Woods Lift Station Repair	Complete Renovation of Sanitary Sewer Lift Station. / 1,2	\$85,000	FY22/23	Local	1/18/2023	Cecilia Chen
1007	Safety Harbor / Fire Department	Fire Station Needs Analysis	Conduct a station needs analysis from a reputable third-party to identify short-, mid-, and long-term repair and maintenance plans, as well as remodeling plans, to ensure safe and resilient fire stations for the response community. Such analysis should ascertain strategies to ensure the fire station remains open and useable by response personnel during local disasters such as storms and flooding, as well as to identify code compliance issues and remedies for long term sustainability.	\$45,500	FY25/26	Unfunded Local	1/18/2023	Cecilia Chen
1142	Safety Harbor / Fire Department	Fire Station Apparatus Bay Door Hardening	Replace all fire station apparatus bay doors with wind-load rated doors, and new components, to assist in continuity of operations for the community. The fire stations in Safety Harbor house needed emergency response units that respond to and assist at medical and fire emergencies within mid- and north-Pinellas County. This project will assist the department in hardening their structures to resist high winds during severe storms.	\$75,000	FY23/24	Local	1/18/2023	Cecilia Chen
944	Safety Harbor/Public Works	2nd St. S/6th Ave. Improvements	Grade/Pave intersections to alleviate stormwater flooding and create positive drainage toward existing inlet./1	\$100,000	FY22/23	Local	1/18/2023	Cecilia Chen
989	Safety Harbor/Public Works	Drainage Operations	Pond and Creek Dredging/Maintenance – Removing heavy sediment to improve stormwater flow and alleviate ponding/flooding./1, 3	\$50,000	FY20/21	Local	1/18/2023	Cecilia Chen
1176	Safety Harbor/Public Works	Master Lift Station Repair – Pump #2	Replace Pump #2 at the Master Pump Station./1, 4	\$80,000	FY21/22	Local	1/18/2023	Cecilia Chen
1176	Safety Harbor/Public Works	Master Lift Station Repair – Pump #1	Replace Pump #1 at the Master Pump Station./1, 4	\$80,000	FY22/23	Local	1/18/2023	Cecilia Chen
1092	Safety Harbor/Public Works	Portable Generator #617	The generator protects spillage of raw sewage.	\$26,300	FY23/24	Local	1/18/2023	Cecilia Chen
1092	Safety Harbor/Public Works	Portable Generator #631	The generator protects spillage of raw sewage.	\$75,000	FY23/24	Local	1/18/2023	Cecilia Chen
1070	Safety Harbor/Public Works	Portable Generator #608	The generator protects spillage of raw sewage.	\$110,000	FY24/25	Local	1/18/2023	Cecilia Chen
1070	Safety Harbor/Public Works	Stormwater Pipe lining	Pipe Lining: Annual program to replace/line inadequate or deteriorating stormwater conveyance systems. /4	\$650,000	FY22-FY27	Local	1/18/2023	Cecilia Chen
1070	Safety Harbor/Public Works	Stormwater Master Plan	Evaluate drainage patterns within watershed; identify flooding locations; develop BMPs to address the issues. / 1, 3	\$250,000	FY25/26	50%CFI, 50% Local	1/18/2023	Cecilia Chen
1062	Safety Harbor/Public Works	6th St N at 6th Ave N Intersection Improvements:	Grade/Pave intersection to alleviate stormwater flooding and create positive drainage toward existing inlet./1	\$92,000	FY23/24	Local	1/18/2023	Cecilia Chen
948	Safety Harbor/Public Works	Huntington Lift Station Rebuild	Replace Pumps at the Huntington Lift Station.	\$160,000	FY23/24	Local	1/18/2023	Cecilia Chen

Pinellas County  
Local Mitigation Strategy 2022-2023  
Appendix D, Table D-1: Mitigation Initiatives

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869	Safety Harbor/Public Works	Bishop and Mullet Creek Improvements	Evaluate drainage patterns within watershed; identify flooding locations; develop BMPs to address the issues. / 3	\$1,200,000	FY23/24	Local	1/18/2023	Cecilia Chen
941	Safety Harbor/Public Works	2nd St N at 2nd Ave N drainage improvements	Grade/Pave intersection to alleviate stormwater flooding and create positive drainage toward existing inlet. / 1	\$90,000	FY22/23	Local	1/18/2023	Cecilia Chen
971	Safety Harbor/Public Works	9th Ave S at 2nd St S intersection drainage improvements	Grade/Pave intersection to alleviate stormwater flooding and create positive drainage toward existing inlet. / 1	\$92,000	FY24/25	Local	1/18/2023	Cecilia Chen
1029	South Pasadena/Fire Department	City Hall Emergency Generator with Transfer Switch and Platfrom	The City of South Pasdane City Hall Complex is currently without emergency backup power. The City Hall Complex is a two-story building with a community center on the first floor and the commission chambers, city server room, adminstraive offices and electred offical offices on the second florr. This project would include the purchase and installation of a permanent diesel powered emergency generator and automatic tranfer switch. The generator and transfer switch would be built on an elevated platfrom above BFE.	\$412,500	Currently Unfunded; Project for FY 2023	Pre-Disaster Mitigation (PDM), Hurricane Program, Penny Sales Tax	1/18/2023	David Mixson
1029	South Pasadena/Public Works	Public Work Annex Generator and Platform	The City of South Pasadena Public Works Annex Building is currently without dedicated emergency backup power. The Public Works Annex Building houses machinery and equipment that is vital for road clearing, debris removal critical infrastructure assessment post storm. This project would include the purchase and installatoin of a permanent diesel powered emergency generator. The generator would be built on an elevated platform above BFE.	\$275,225	Currently Unfunded; Project for FY 2023	Pre-Disaster Mitigation (PDM), Hurricane Program, Penny Sales Tax	1/18/2023	David Mixson
1284	South Pasadena / Fire Department	Fire Station #20	The City of South Pasadena will construct a new fire station designed to withstand hazards posed by hurricanes, to include wind, storm surge and flooding, as well as threats posed by future sea-level rise. The City of South Pasadena is located in a FEMA AE-12 Flood Zone. The City of South Pasadena per city ordinance has increase the B.F.E. by 2 feet and as such the new fire station shall be constructed at 14 feet above sea level. The new fire station will house apparatus and personnel assigned to both fire suppression and emergency medical response activities. Part of the station design and scope will include an Emergency Operations Center (EOC) for the City of South Pasadena. Natural Hazards Addressed include: 1 - Flooding, 2 - Storm Wind, 4 - All Hazards.	\$4,500,000	Currently Funded; Project for FY 2021	Pre-Disaster Mitigation (PDM), Hurricane Program, Penny Sales Tax	1/18/2023	David Mixson
780	St. Anthony's Hospital / St. Petersburg	Public Education	Develop a community education program to provide a better interface between the City and its stakeholders. Estimated completion time: less than 12 months. / 4	\$10,000	Currently Unfunded	Residential Construction Mitigation Program; EMPATF, HMGP; PDM Program	1/18/2023	
780	St. Anthony's Hospital / St. Petersburg	ER Retrofit to provide surge capacity for emergencies	Build surge capacity for St. Anthony's Hospital including a new Emergency Dept. Estimated completion time: more than 12 months. / 4	\$2,000,000	Currently Unfunded	Residential Construction Mitigation Program; EMPATF, HMGP; PDM Program	1/18/2023	
1330	St. Pete Beach	City EOC Retrofit	Provide shutters for the city EOC. Estimated completion time: less than 12 months. / 2	\$40,000	Currently Unfunded	EMPATF, HMGP; PDM Program	1/18/2023	Lynn Rosetti
890	St. Pete Beach	Flood Proof Recreation Building	Flood-proof recreation building. Estimated completion time: more than 12 months. / 1	\$350,000	Currently Unfunded	FMAP; HMGP; PDM Program; EMPATF	1/18/2023	Lynn Rosetti
1000	St. Pete Beach	Acquisition of Repetitive Loss Properties	Purchase repetitive loss properties to mitigate losses. Estimated completion time: more than 12 months. / 1	\$1,000,000	Currently Unfunded	EMPATF, HMGP; PDM Program	1/18/2023	Lynn Rosetti
1220	St. Pete Beach	Dune Creation	Create dunes where there are gaps in the system and restore those which do not meet current FDEP dune standards. This will protect the entire city against the impacts of storms and damage to lives and property. /1,3	\$500,000	Currently Unfunded		1/18/2023	Lynn Rosetti
1060	St. Pete Beach	Sea Level Rise Study	Identify areas which are particularly vulnerable to sea level rise and which experience frequent flooding and develop an action plan to mitigate future damages. Many areas of the city become inundated with water during storms and greatly affect the welfare of the community. By developing strategies to prevent this, the city will reduces the threat level of flooding and erosion./ 1	\$40,000	Currently Unfunded		1/18/2023	Lynn Rosetti
1313	St. Pete Beach	Stormwater Improvements	Ongoing improvements to the City's stormwater infrastructure. Repair locations are prioritized based on stormwater flooding throughout the City./1	\$3,000,000	\$ 600,000 annually 2018-2022	Stormwater Fund, HGMP, SWFWMD.	1/18/2023	Lynn Rosetti

Pinellas County  
Local Mitigation Strategy 2022-2023  
Appendix D, Table D-1: Mitigation Initiatives

Total Score	Jurisdiction/ Organization	Project Name	Description/ Natural Hazard Addressed (Key: 1=Flooding; 2=Storm Wind; 3=Erosion; 4=All Hazard)	Est. Cost	Timeframe / Status	Possible Funding Sources	Date Last Reviewed	Updated By
1119	St. Pete Beach	Seawall Rehabilitation - Community Center Seawall	Seawall repair and replacement in accordance with established level of service. City staff review inventory and prioritize project locations annually./3 The purpose of this project is to design and construct a living seawall for the replacement of the seawall located at the St. Pete Beach Community Center - 7701 Boca Ciega Drive, St Pete Beach, FL 33706, within the City of St. Pete Beach limits and Pinellas County. The subject project is located in Pinellas County at Parcel Identification Number 36-31-15-77988-000-0010. The seawall will protect the city, its residents and developed properties from the impacts of sea level rise - including flooding and severe storms. The project includes approximately 960 linear feet of environmental services, shoreline design and construction consisting of a multi-faceted approach to include seawall repairs and living shoreline construction, utilizing a mix of gray materials (rip-rap, repaired seawall, revetments, oyster shells, etc.) and green materials (native coastal plants, mangroves, etc.) that appropriately compliment the site conditions. This project is critical to the City of St. Pete Beach and its residents. The nearly 1000' of seawall that is currently located at the site is not sufficient to protect city resources and will not protect public resources as the area experiences sea level rise. This site is located at the base of the Corey Causeway (75th Ave), which is the main ingress and egress to the City. In a significant storm with high tide and a storm surge, water could easily impact the main roadway to the Island. Further, the seawall is immediately adjacent to the City of St. Pete Beach Community Center where many important city services are provided to residents (after school programs, summer camps and family recreation). The City's police and fire boats are docked at the site. Public Works, with significant heavy equipment necessary to recovery after a storm, is located within one block. The Parks Department keeps heavy equipment at the site too. Flooding is already an issue at the site. Recently the pool at the Community Center was damaged by flooding. Without seawall improvements, flooding will increase and City resources will be at risk. The project will design a living seawall that will protect valuable residential and commercial structures, and the underlying real estate, against damages from rising sea levels and increasing storm intensities.	\$1,500,000	Currently Unfunded	Capital Projects Fund, HMGP	1/18/2023	Lynn Rosetti
1029	St. Pete Beach	Sub-Aqueous Condition Assessment	Condition assessment of all force mains to plan future maintenance and replacement in order to prevent sanitary sewer overflows (SSOs) into bodies of water that surround the island. Project includes a highly detailed assessment of the force main leading from pump station no. 1./1	\$175,000	Less than 12 months	Wastewater Fund	1/18/2023	Lynn Rosetti
1073	St. Pete Beach	Gulf Boulevard Electric Undergrounding	Undergrounding of electric utility lines adjacent to Gulf Boulevard./2	\$4,500,000	More than 12 months	Penny for Pinellas, Interlocal Agreement with Pinellas County	1/18/2023	Lynn Rosetti
1091	St. Pete Beach	Dune Walkover Replacement	Dune walkover replacement at 12th Avenue and 16th Avenue to meet FDEP requirements and increase resiliency by increasing the heighth of the walkover to permit the dunes to grow./1,3	\$120,000	Less than 12 months	Grant from Pinellas County	1/18/2023	Lynn Rosetti
1142	St. Pete Beach	Alley Improvements	Replacement of the existing eastern north-south shell alley between 21st and 22nd Avenue in Pass-a-Grille with a new concrete alley, designed to convey stormwater to the newly installed stormwater collection system on Pass-a-Grille Way./1	\$100,000	18 months	Capital Projects Fund	1/18/2023	Lynn Rosetti
1169	St. Pete Beach	Blind Pass Stormwater Basin Connections	The Blind Pass Road stormwater system is designed to connect 7 flood control basins. This project will connect the first basin to the new twin 60' stormwater pipes. Anticipated project schedule includes one basin per year for the next 7 years until the project is complete. /1	\$1,400,000	7 years	Stormwater Fund, SWFWMD	1/18/2023	Lynn Rosetti
1080	St. Pete Beach	Boca Ciega Isle Stormwater Improvements	Improvements in stormwater basin 6F identified in the Stormwater Master Plan. This basin contains 5.8 acres in a residential zone and comprises the east end of Boca Ciega Isle./1	\$350,000	18 months	Stormwater Fund	1/18/2023	Lynn Rosetti
1152	St. Pete Beach	GIS Integration System	Camera system integrated with GIS mapping for exact pipe and infrastructure location. Software system integrates with the Work Order Management System for mapping maintenance./1	\$80,000	18 months	Stormwater Fund	1/18/2023	Lynn Rosetti
1047	St. Pete Beach	Pump Replacement Stock	"Change out" pumps reduce service interruption, the likelihood of SSOs, and the associated emergency maintenance cost. One surplus pump for each of the five different types currently in service will be acquired. /4	\$120,000	Less than 12 months	Wastewater Fund	1/18/2023	Lynn Rosetti
1101	St. Pete Beach	Valve Vault Repair	The combined valve vault where the outflow from the Cities of Treasure Island and St. Pete Beach enter the City of St. Petersburg's wastewater system are frozen in the open position. This project will install a new 20-inch valve to help reduce the possibility of SSOs./4	\$310,000	24 months	Wastewater Fund	1/18/2023	Lynn Rosetti
1065	St. Pete Beach	Wastewater Inflow and Infiltration Repairs	Priority-based improvements to wastewater system infrastructure to help reduce the possibility of SSOs. The City received a system-wide inflow and infiltration study in fiscal year 2017, which prioritizes manhole, lining, and pipe point repairs./4	\$4,900,000	5 years	Wastewater Fund	1/18/2023	Lynn Rosetti
1299	St. Pete Beach / Fire	Generator at Station 22	Provide and install 40-kilowatt natural gas-fired generator to be located on the roof in order to meet FEMA regulations at Fire Station 22, including roof engineering and construction as well as running TECO natural gas line to the building in order to ensure Continuity of Operations./4	\$150,000	2 years	HMGP,Capital Project Funds	1/18/2023	K.Intzes

Pinellas County  
Local Mitigation Strategy 2022-2023  
Appendix D, Table D-1: Mitigation Initiatives

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1230	St. Petersburg / City of St. Petersburg/ Public Works Department - Engineering	Southwest Water Reclamation Facility Resiliency Wall	<p>The City of St. Petersburg Engineering Department proposes to use FEMA Hazard Mitigation Grant Program (HMGP) funds to design and construct a hydrostatic wall surrounding the Southwest Water Reclamation Facility (SWWRF). The SWWRF is located less than a mile from the Gulf of Mexico and currently resides in Zone AE, equivalent to a 1 percent annual chance inundation area, with a Base Flood Elevation (BFE) of 11 to 12 throughout the site. The site is at medium to high exposure risk of flooding, and if the facility is inundated and rendered out of service, there is the potential that untreated wastewater would discharge into the Gulf of Mexico and the facility could be out of service for a significant duration of time. Most assets at the site are elevated to similar heights (between 11 and 12 feet NAVD), which leaves limited capacity to respond to current and future conditions such as sea level rise. The Tampa Bay Climate Science Advisory Panel (CSAP) has found that the Tampa Bay region may experience sea level rise somewhere between 6 inches to 2.5 feet by 2050, which could increase the BFE at the SWRRF site by as much. The proposed flood wall will protect the facility during present-day and future storm surge events, benefitting the structural longevity of the SWWRF and allowing the facility to continue operation and provide wastewater service to a large service population that extends beyond City boundaries. The flood wall will provide further benefit to the surrounding wetland habitats and neighboring properties by preventing any sanitary sewer overflows that may occur during heavy events from exfiltration the site. Implementation of the floodwall would accomplish not one but two Pinellas County LMS Goals: 1. Become a more disaster resilient community; and 2. Minimize coastal flooding losses in the coastal high hazard area, coastal storm area, and hurricane vulnerability zone. The proposed project also meets multiple objectives under these goals, including:</p> <p>Objective 1.6 (Property Protection): Identify, assess, prioritize, and harden critical facilities and key critical infrastructure.</p> <p>Objective 1.11 (Structural Projects): Support the construction of structures that reduce the impact of hazards including stormwater controls, floodwalls, seawalls, security and monitoring capabilities, and safe rooms.</p> <p>Objective 2.8 (Structural Projects): Identify structural projects where appropriate that minimize coastal flooding loss but protect environmental resources.</p>	\$6,000,000	Currently Unfunded	HMGP	1/18/2023	
1289	St. Petersburg / City of St. Petersburg/ Leisure Services Department - Libraries	James Weldon Johnson Library Generator	<p>The aim of this project is to strengthen this building's infrastructure where the Library systems technological hub is located. It will fortify the building's ability to serve as a Disaster Recovery Center as well as an alternate Emergency Operations Center. This will also ensure the Libraries ability to serve the public system wide provided there aren't any extenuating circumstances with the local power company. This project will also protect the Libraries collections from damage from humidity as well as component damage to servers due to partial power.</p>	\$250,000	Planning	CIP	1/18/2023	Matthew Holthusen
1370	St. Petersburg / City of St. Petersburg/ Fire Rescue Department - Operations Division	Generator for St. Petersburg Fire Rescue Headquarters	<p>This project would fund the replacement of the current generator at Fire Headquarters. The funding would provide for a new 200kw diesel generator as well as a fuel tank, generator enclosure and ATS with freight to the location, a crane to off load new equipment, removal of the old generator and start up. Funds would also provide for a rental generator for the duration of the installation. The St. Petersburg Fire Rescue headquarters building is a critical facility at all times and especially during disasters and emergency events as it is home to the sub-Emergency Operations Center for the City. During Hurricane Irma, headquarters had to utilize the current generator to fully power the building for over two weeks. During this time, power constantly flickered to the building as the generator was overloaded. A review of the current generator was recently completed by Paramount Power which stated that "with the unit being so heavily loaded and having been in service for so long, it is only a matter of time before this condition causes damage and possible catastrophic failure to the tail section or whole unit." Replacement of the current generator would ensure that the building is fully powered and able to function as normal during any hazard that would cause a potential loss of power.</p>	\$185,100	Currently Unfunded	HMGP	1/18/2023	
1002	St. Petersburg / City of St. Petersburg/ Public Works Department - Engineering	Central Yacht Basin Seawall Project	<p>The City of St. Petersburg proposes to use FEMA Hazard Mitigation Grant Program (HMGP) funds to design and implement a seawall mitigation program in the Central Yacht Basin of the City's Municipal Marina. The Marina is the largest in the state, with more than 600 rental boat slips, and is integral to the City's Downtown Waterfront. The seawalls within the Central Basin of the Marina currently protect key cultural landmarks of the Downtown Waterfront, including Demens Landing Park, Pioneer Park, and several restaurants and shops adjacent to Bayshore Drive. These structures are all located within Flood Zone AE, with a Base Flood Elevation (BFE) of 8 feet, and are exposed to flood hazards. However, the original Central Basin seawalls were only designed to 2.5 feet NAVD, less than a 10-year level of protection. The seawalls are prone to overtopping during surge events often impacting the use of Bayshore Drive, a multi-use scenic byway that provides visual and physical access to Tampa Bay and is often the location of local gatherings such as farmer's markets. To further support economic growth and investment in Downtown and to protect residential, commercial, cultural, and public assets, the City proposes to increase the level of protection of the existing seawalls to mitigate future conditions associated with sea level rise. The Tampa Bay Climate Science Advisory Panel (CSAP) has found that the Tampa Bay region may experience sea level rise somewhere between 6 inches and 2.5 feet by 2050, which could increase the BFE at the Marina and hurricane surge driven flooding. The enhanced seawalls will be designed to compliment future plans for a new Pier District to the north and a waterfront promenade along Bayshore Drive, which will enhance existing green space and improve pedestrian accessibility and connectivity across the Marina.</p> <p>Increasing the level of protection of the seawalls in the Central Yacht Basin will not only provide protection to surrounding cultural assets in the long term in the face of sea level rise, but also tie into a comprehensive plan for the Downtown Waterfront that will provide co-benefits such as improved open space, increased economic activity, and social cohesion opportunities. The seawall project will also accomplish multiple Pinellas County LMS Goals: 1. Become a more disaster resilient community; and 2. Minimize coastal flooding losses in the coastal high hazard area, coastal storm area, and hurricane vulnerability zone. The proposed project also meets multiple objectives under these goals, including:</p> <p>Objective 1.6 (Property Protection): Identify, assess, prioritize, and harden critical facilities and key critical infrastructure. The City considers seawalls key critical infrastructure as the walls not only serve to protect Downtown assets from storm surge, but also retain filled land from eroding into the Bay and degrading water quality.</p> <p>Objective 1.11 (Structural Projects): Support the construction of structures that reduce the impact of hazards including stormwater controls, floodwalls, seawalls, security and monitoring capabilities, and safe rooms. Seawalls are explicitly listed in this objective.</p>	\$6,300,000	Currently Unfunded	HMGP	1/18/2023	



Pinellas County  
Local Mitigation Strategy 2022-2023  
Appendix D, Table D-1: Mitigation Initiatives

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1002	St. Petersburg / City of St. Petersburg/ Public Works Department - Engineering	North Yacht Basin Seawall Project	<p>The City of St. Petersburg proposes to use FEMA Hazard Mitigation Grant Program (HMGP) funds to design and implement a seawall mitigation program in the North Yacht Basin of the City's Municipal Marina. The Marina is the largest in the state, with more than 600 rental boat slips, and is integral to the City's Downtown Waterfront. The seawalls within the North Basin of the Marina currently protect key cultural landmarks of the Downtown Waterfront, including the Vinoy Renaissance hotel, Straub Park, the Museum of Fine Arts, and the Museum of History. These structures are all located within Flood Zone AE, with a Base Flood Elevation (BFE) of 8 feet, and are exposed to flood hazards. However, the original North Basin seawalls were only designed to 4 feet NAVD, a 10-year level of protection. The seawalls are prone to overtopping during surge events often impacting the use of Bayshore Drive, a multi-use scenic byway that provides visual and physical access to Tampa Bay and is often the location of local gatherings such as farmer's markets. To further support economic growth and investment in Downtown and to protect residential, commercial, cultural, and public assets, the City proposes to increase the level of protection of the existing seawalls to mitigate future conditions associated with sea level rise. The Tampa Bay Climate Science Advisory Panel (CSAP) has found that the Tampa Bay region may experience sea level rise somewhere between 6 inches and 2.5 feet by 2050, which could increase the BFE at the Marina and hurricane surge driven flooding. The enhanced seawalls will be designed to compliment future plans for a new Pier District to the north and a waterfront promenade along Bayshore Drive, which will enhance existing green space and improve pedestrian accessibility and connectivity across the Marina.</p> <p>Increasing the level of protection of the seawalls in the North Yacht Basin will not only provide protection to surrounding cultural assets in the long term in the face of sea level rise, but also tie into a comprehensive plan for the Downtown Waterfront that will provide co-benefits such as improved open space, increased economic activity, and social cohesion opportunities. The seawall project will also accomplish multiple Pinellas County LMS Goals: 1. Become a more disaster resilient community; and 2. Minimize coastal flooding losses in the coastal high hazard area, coastal storm area, and hurricane vulnerability zone. The proposed project also meets multiple objectives under these goals, including:</p> <p>Objective 1.6 (Property Protection): Identify, assess, prioritize, and harden critical facilities and key critical infrastructure. The City considers seawalls key critical infrastructure as the walls not only serve to protect Downtown assets from storm surge, but also retain filled land from eroding into the Bay and degrading water quality.</p> <p>Objective 1.11 (Structural Projects): Support the construction of structures that reduce the impact of hazards including stormwater controls, floodwalls, seawalls, security and monitoring capabilities, and safe rooms. Seawalls are explicitly listed in this objective.</p> <p>The City of St. Petersburg Parks and Recreation Leisure Services Complex requires a wind retrofit to withstand a Category 3-5 Rating. This building serves as the primary administrative building for the Parks and Recreation Department and a command center and shelter for department staff during hurricane events. Currently, the building cannot withstand high category hurricanes or fulfill its purpose as a command center and shelter safely. This project will replace the existing roof and retrofit the roof and building envelope to mitigate the impacts of winds. This project directly addresses the LMS goal of "Minimize Storm Wind Losses in the County" through protecting a facility which benefits the general public.</p>	\$4,300,000	Currently Unfunded	HMGP	1/18/2023	
941	St. Petersburg / City of St. Petersburg/ Leisure Services Department - Parks & Recreation	Leisure Services Complex Wind Retrofit	<p>The City of St. Petersburg Parks and Recreation Leisure Services Complex requires a wind retrofit to withstand a Category 3-5 Rating. This building serves as the primary administrative building for the Parks and Recreation Department and a command center and shelter for department staff during hurricane events. Currently, the building cannot withstand high category hurricanes or fulfill its purpose as a command center and shelter safely. This project will replace the existing roof and retrofit the roof and building envelope to mitigate the impacts of winds. This project directly addresses the LMS goal of "Minimize Storm Wind Losses in the County" through protecting a facility which benefits the general public.</p>	\$500,000	Currently Unfunded	HMGP	1/18/2023	
1025	St. Petersburg / Baycare, Inc.	Hospital EOC	Construct new EOC. Estimated completion time: more than 12 months. / 4	\$1,100,000	Currently Unfunded	EMPATF, HMGP; PDM Program	1/18/2023	
1150	St. Petersburg / Bayfront Medical Center	Harden Window and Roof - Building C Center	Harden the exterior including hurricane-rated windows and roofing system to protect against high wind velocity events. Estimated completion time: more than 12 months. / 2	\$2,789,889	Currently Unfunded	EMPATF, HMGP; PDM Program	1/18/2023	
1150	St. Petersburg / Bayfront Medical Center	Harden Window and Roof - Building C South	Harden the exterior including hurricane-rated windows and roofing system to protect against high wind velocity events. Estimated completion time: more than 12 months. / 2	\$4,575,295	Currently Unfunded	EMPATF, HMGP; PDM Program	1/18/2023	
1150	St. Petersburg / Bayfront Medical Center	Harden Window and Roof - Building C North	Harden the exterior including hurricane-rated windows and roofing system to protect against high wind velocity events. Estimated completion time: more than 12 months. / 2	\$4,646,281	Currently Unfunded	EMPATF, HMGP; PDM Program	1/18/2023	
1090	St. Petersburg / Bayfront Medical Center	Harden Cancer Care Center	Harden the exterior including the roof, windows and walls to ensure continuity of operations. Estimated completion time: more than 12 months. / 2	\$430,003	Currently Unfunded	EMPATF, HMGP; PDM Program	1/18/2023	
1070	St. Petersburg / Bayfront Medical Center	Harden West Lobby	Harden the roof and curtainwall window assembly to protect against high wind velocity events. Estimated completion time: more than 12 months. / 2	\$1,250,200	Currently Unfunded	EMPATF, HMGP; PDM Program	1/18/2023	
1000	St. Petersburg / Bayfront Medical Center	Harden Mechanical Room & Medical Gas Enclosure - Building B/C	The Mechanical Room and a fenced lean to will be hardened. Estimated completion time: more than 12 months. / 2	\$1,000,000	Currently Unfunded	Emergency Management, Preparedness and Assistance Trust Fund, HMGP; PDM Program	1/18/2023	
995	St. Petersburg / Bayfront Medical Center	Building C Boiler / Chiller Plant Hardening & Rooftop Equipment Mitigation	The hospital's boiler & chiller plant needs hardening for severe weather mitigation. Estimated completion time; More than 12 months. / 2	\$1,000,000	Currently Unfunded	Emergency Management, Preparedness and Assistance Trust Fund, HMGP; PDM Program	1/18/2023	
995	St. Petersburg / Bayfront Medical Center	Tank Farm Enclosure	On the South side of Building C, the Oxygen Tank Farm will be hardened. Estimated completion time; more than 12 months. / 2	\$1,000,000	Currently Unfunded	Emergency Management, Preparedness and Assistance Trust Fund, HMGP; PDM Program	1/18/2023	
995	St. Petersburg / Bayfront Medical Center	Life Services Building Window, Door & Wall Hardening	The Life Services Building needs windows, doors and walls hardened for protection against high wind velocity and severe weather events. Estimated completion time; more than 12 months. / 2	\$1,000,000	Currently Unfunded	Emergency Management, Preparedness and Assistance Trust Fund, HMGP; PDM Program	1/18/2023	
990	St. Petersburg / Bayfront Medical Center	Child Development Center Wind, Door & Roof Hardening	Harden windows, doors and roof for hurricane and severe weather mitigation. Estimated completion time: more than 12 months. / 2	\$1,000,000	Currently Unfunded	Emergency Management, Preparedness and Assistance Trust Fund, HMGP; PDM Program	1/18/2023	
980	St. Petersburg / Bayfront Medical Center	Family Health Center Structural Hardening	Harden walls and roof to mitigate high wind velocity. Estimated time of completion: 12 months. / 2	\$1,000,000	Currently Unfunded	Emergency Management, Preparedness and Assistance Trust Fund, HMGP; PDM Program	1/18/2023	
980	St. Petersburg / Bayfront Medical Center	Haden Exterior - Building C East - Area 4	Harden the exterior of Building C East - including hurricane-rated windows, walls, doors and roofing system to protect against high wind velocity events. / 2	\$3,070,827	Currently Unfunded	Emergency Management, Preparedness and Assistance Trust Fund, HMGP; PDM Program	1/18/2023	

Pinellas County  
Local Mitigation Strategy 2022-2023  
Appendix D, Table D-1: Mitigation Initiatives

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1150	St. Petersburg / Bayfront Medical Center	Harden Window Openings - Building A	Harden the exterior of Building A and install new hurricane-rated windows. Estimated completion time: more than 12 months. / 2	\$1,217,370	Currently Unfunded	EMPATF, HMGP; PDM Program	1/18/2023	
845	St. Petersburg / City of St. Petersburg/ City Development Department - Planning & Development Services	Acquisition of Repetitive Loss Properties	Acquire repetitive loss properties to mitigate real property vulnerabilities. Estimated completion time: more than 12 months. / 1	\$1,000,000	Currently Unfunded	Residential Construction Mitigation Program; EMPATF, HMGP; PDM Program	1/18/2023	Noah Taylor
970	St. Petersburg / Eckerd College	Building Flood/Wind Retrofit	Retrofit priority support building to address vulnerabilities to high winds and/or flooding based on engineering evaluation. Estimated completion time: more than 12 months. / 1, 2	\$50,000	Currently Unfunded	EMPATF, HMGP; PDM Program	1/18/2023	Lisa Mets
940	St. Petersburg / Eckerd College	Building Flood/Wind Retrofit	Retrofit academic building to address vulnerabilities to high winds and/or flooding based on engineering evaluation. Estimated completion time: more than 12 months. / 1, 2	\$250,000	Currently Unfunded	EMPATF, HMGP; PDM Program	1/18/2023	Lisa Mets
780	St. Petersburg / St. Anthony's Hospital	Public Education	Develop a community education program to provide a better interface between the City and its stakeholders. Estimated completion time: less than 12 months. / 4	\$10,000	Currently Unfunded	Residential Construction Mitigation Program; EMPATF, HMGP; PDM Program	1/18/2023	
780	St. Petersburg / St. Anthony's Hospital	ER Retrofit to provide surge capacity for emergencies	Build surge capacity for St. Anthony's Hospital including a new Emergency Dept. Estimated completion time: more than 12 months. / 4	\$2,000,000	Currently Unfunded	Residential Construction Mitigation Program; EMPATF, HMGP; PDM Program	1/18/2023	
1170	St. Petersburg / City of St. Petersburg/ Public Works Department - Stormwater, Pavement, and Traffic Operations	Oak Street NE and Gandy Blvd Storm Drainage Improvements	Project will construct large conveyance piping to reduce street and property flooding. /1	\$1,000,000	FY16- FY18	Local	1/18/2023	Noah Taylor
1430	St. Petersburg / City of St. Petersburg/ Public Works Department	Stormwater Management Master Plan Update	Update 1994 Stormwater Management Master Plan utilizing SWFWMD criteria. /1	\$1,800,000	FY17-FY20	SWFWMD/Local	1/18/2023	Noah Taylor
1245	St. Petersburg / City of St. Petersburg/ Public Works Department - Water Resources	Cosme Water Treatment Facilities Structural Improvements	This project will provide wind mitigation improvements to water treatment plant buildings constructed in the 1960's and earlier. They include the Chemical, Chlorine, Fluoride, Pump/Filter, and Gulf to Bay Pumping Station buildings. The existing buildings are not structurally sufficient to provide shelter of emergency critical staff and remain operational during and after a hurricane.	\$1,000,000	Currently Unfunded	Bond CIP Funded	1/18/2023	Noah Taylor
1181	St. Petersburg / City of St. Petersburg Public Works Department	Main Laboratory Replacement	Replace the Water Resources Department main Laboratory Building with a modern laboratory sufficient to conduct accurate analysis of samples taken at water reclamation and potable water treatment plant and other locations throughout the city. The existing building is not structurally sufficient to provide shelter of emergency critical staff and remain operational during and after a hurricane.	\$4,400,000	Currently Unfunded	Bond CIP Funded	1/18/2023	Noah Taylor
1223	St. Petersburg / City of St. Petersburg/ Public Works Department	SW Water Reclamation Facility Building Replacements	This project provides for the replacement of operation/lab/maintenance buildings located in an Evacuation Zone A with buildings constructed to meet latest hurricane and flood codes. The existing buildings are not structurally sufficient to provide shelter of emergency critical staff during, and remain operational after, a hurricane.	\$4,250,000	Currently Unfunded	Bond CIP Funded	1/18/2023	Noah Taylor
1223	St. Petersburg / City of St. Petersburg/ Public Works Department	NE Water Reclamation Facility Building Replacements	This project provides for the replacement of operation/lab/maintenance buildings to meet latest hurricane and flood codes. The existing buildings are not structurally sufficient to provide shelter of emergency critical staff during, and remain operational after, a hurricane.	\$4,250,000	Currently Unfunded	Bond CIP Funded	1/18/2023	Noah Taylor
1223	St. Petersburg / City of St. Petersburg/ Public Works Department	NW Water Reclamation Facility Building Replacements	This project provides for the replacement of operation/lab/maintenance buildings to meet latest hurricane and flood codes. The existing buildings are not structurally sufficient to provide shelter of emergency critical staff during, and remain operational after, a hurricane.	\$4,250,000	Currently Unfunded	Bond CIP Funded	1/18/2023	Noah Taylor
1223	St. Petersburg / City of St. Petersburg/ Public Works Department	Water Resources Maintenance Building Replacement	This project provides for the replacement of Water Resources Building C and M to meet latest hurricane and flood codes. The existing buildings are not structurally sufficient to provide shelter of emergency critical staff during, and remain operational after, a hurricane.	\$2,750,000	Currently Unfunded	Bond CIP Funded	1/18/2023	Noah Taylor
1368	St. Petersburg / City of St. Petersburg/ Public Works Department	Sanitary Sewer Inflow and Infiltration Reduction Improvements	This project includes construction projects that will reduce inflow and infiltration (rain and ground water) into the City's sanitary sewer system by repairing and replacing old sewer collection system infrastructure. Inflow and Infiltration during wet weather periods has increased flow rates above the capacities of the collection system and treatment plants resulting in sewage discharges into the bay.	\$12,000,000	Currently Unfunded	Penny for Pinellas Local Option Sales Tax	1/18/2023	Noah Taylor
1193	St. Petersburg / City of St. Petersburg/ Public Works Department	NE Water Reclamation Facility MCC Building	This project provides for the replacement of a building located in an Evacuation Zone A that contains electrical switch gear and controls for essential wastewater treatment process equipment with a new building meeting current wind and flood building code requirements.	\$1,500,000	Currently Unfunded	Bond CIP Fund	1/18/2023	Noah Taylor
1193	St. Petersburg / City of St. Petersburg/ Public Works Department	SW Water Reclamation Facility MCC Building	This project provides for the replacement of a building located in an Evacuation Zone A that contains electrical switch gear and controls for critical wastewater treatment process equipment with a new building meeting current wind and flood building code requirements.	\$1,500,000	Currently Unfunded	Bond CIP Fund	1/18/2023	Noah Taylor
1121	St. Petersburg / City of St. Petersburg/ Public Works Department	Bartlett Park Area Storm Drainage Improvements	This project includes construction of stormwater improvements to alleviate heavy flooding along Bartlett Park area and into recreation center in the neighborhood. Existing flooding is severe enough to reduce functionality of public park and services as well as endanger public safety.	\$1,400,000	Currently Unfunded	Bond CIP Fund	1/18/2023	Noah Taylor
1026	St. Petersburg / City of St. Petersburg/ Public Works Department	Broadwater at 42nd Ave S and 37th St/S Storm Drainage Improvements	This project includes construction of stormwater improvements to alleviate heavy flooding along in the Broadwater Neighborhood. Current flooding has caused repetitive loss to vehicle and encroached on house structures as well as impeding road travel evacuating the neighborhood	\$1,200,000	Currently Unfunded	Bond CIP Fund	1/18/2023	Noah Taylor



Pinellas County  
Local Mitigation Strategy 2022-2023  
Appendix D, Table D-1: Mitigation Initiatives

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906	St. Petersburg / City of St. Petersburg/ Public Works Department	5th Ave Improvements East of 72nd Street	This project includes construction of stormwater improvements to alleviate a stormwater system that incorporates a large community that has experienced some repetitive loss and flooding concerns. It has been identified in a stormwater masterplan update as a possible improvement area.	\$1,580,000	Currently Unfunded	Bond CIP Fund	1/18/2023	Noah Taylor
1340	St. Petersburg	Cosme Water Treatment Plant Emergency Operations Center Code Plus Project	<p>The City of St. Petersburg (City) proposes to implement a Code Plus project through construction of a new emergency operations center building at the Cosme Water Treatment Plant (WTP). The WTP was originally constructed in 1930 and has an operating permit for production up to 68 million gallons per day (MGD) but normal operations have a throughput of 28-33 MGD. The City purchases water from Tampa Bay Water, which is supplied from the Cosme-Odesa well field. Water supply enters the plant from Tampa Bay Water through three individual lines, is treated, and potable water is distributed to the entire City of St Petersburg plus the City of Gulfport, a total of 273,673 people according to 2019 census data.</p> <p>As the only occupied parcel the City owns outside of the City limits, this site provides a geographically higher location less vulnerable to potential storm events, and provides an opportunity to enhance City emergency operations functions. The Code Plus project will design the new structure to harden the facility against hurricanes, severe storms, and power outages to ensure continuity of City emergency response operations at the Cosme WTP during and after such events. This will be achieved by incorporating higher standards above Florida Building Code and ASCE-7 minimum requirements and designing the facility to withstand 150 mile-per-hour wind speeds. The City will consider the following elements from FEMA 453 - Design Guide for Improving Critical Facility Safety from Flooding and High Winds and FEMA P-1019 Emergency Power Systems for Critical Facilities that are eligible under a Code Plus project: hurricane doors and windows with impact-resistant glass, exterior wall protection from water infiltration, weatherstripping, roof and truss system including gravity-support brackets for gutters, and an on-site permanent generator as a redundant power source. The permanent generator will specifically provide redundancy to the WTP's service lines that pump water from Tampa Bay Water's well fields, which currently operate on grid power only with no backup. If the well fields are not powered due to grid failure from a severe storm or hurricane, potable water storage will provide adequate supply for a few days until they are depleted. If the power grid is disrupted for more than a few days and the City's stored water supply is depleted, potable water service would be lost throughout the entire City and Gulfport. Therefore, the proposed Code Plus project will not only ensure continued emergency operational capacity for the City during and after a severe storm or hurricane, but will also secure access to potable water through short and long-term power outages that affect the Cosme WTP.</p> <p>Additionally, during the City will design safe rooms, as part of the EOC, that provide near-absolute life-safety protection during a hurricane to the critical and essential services personnel that must remain in the EOC during a hazard event (approximately 30 staff members). This will be achieved by ensuring the room is designed to withstand at least 180 mph winds as outlined in ICC 500. The City will follow all guidelines and</p>	\$4,399,429.75	Currently Unfunded	HMGP	1/18/2023	Waunda C. Henry
1109	City of St. Petersburg / Raul Quintana/ Fleet Management	City of St. Petersburg Fleet Facility Resilience and Project Scoring Activity	Project includes BRIC scoping activities to identify hazard mitigation projects and alternatives at the City Fleet Management site to address vulnerabilities. The Project entails almost 100 year old buildings /facilities that house pre and post-disaster response staff, facilities and equipment. These scoping activities include facility evaluation, design, engineering, cost-benefit analysis, environmental considerations and cost estimating.	\$500,000	Currently Unfunded	Partial funding from City, BRIC	1/18/2023	Dr. Shrimatee Ojah Maharaj, AICP, Grants Officer City of St Petersburg Tel: 727-892-5180
1130	Tampa Bay Regional Planning Council / Pinellas County	Regional Public Education Initiative	With Pinellas County Emergency Management develop a county-wide public education program to address preparation and mitigation actions for all hazards related to hurricanes. All jurisdictions will benefit from this effort. Estimated completion time: less than 12 months. / 4	\$75,000	Currently Unfunded	EMPATF, HMGP, PDM Program	1/18/2023	
940	Tampa Bay Regional Planning Council / Pinellas County	Post-Storm Evaluation of the Regional Evacuation Study	Evaluate the evacuation study to identify any discrepancies in the predicted and observed elements of the Regional Plan. Estimated completion time: less than 12 months. / 4	\$90,000	Currently Unfunded	EMPATF, HMGP; PDM Program	1/18/2023	
1166	Tarpon Springs Housing Authority	Emergency Operations Generator	Emergency generator to allow operations during state of emergency, power outages or other events of power loss. 1 & 2	\$64,200	Currently Unfunded	CDBG, HUD	1/18/2023	Michael Denehy
800	Tarpon Springs Housing Authority	Landscape Restoration	Trimming of Palm, Planting of Sod & Shrubs, Repair of Erosion and Control of Runoff	\$56,640	Currently Unfunded	CDBG, HUD	1/18/2023	Michael Denehy
1160	Tarpon Springs / Housing Authority	Door & Window Upgrades	Replacement of all original doors and windows to meet Florida building codes, Miami-Dade wind codes, and impact resistant ratings.	\$96	Currently Unfunded	CDBG, HUD	1/18/2023	Michael Denehy
850	Tarpon Springs / IT Division	Fiber	Run fiber from City Hall to Dixie Highway then to Reverse Osmosis Plant	\$300,000	Currently Unfunded	General funds	1/18/2023	Thomas Kiger
1017	Tarpon Springs / Public Services Department	Reverse Osmosis Water Facility 2nd Generator	Project to provide full power back up for the City's water supply facility to support public water supply treatment and distribution in the event of a power outage or interruption in service	\$2,000,000	Currently Unfunded	Water and Sewer Enterprise Fund	1/18/2023	Thomas Kiger
1200	Tarpon Springs / Streets & Stormwater Division	SAP	Stormwater Capital Improvement plan. (SAP-Stormwater Action Plan) Estimated completion time: Ongoing. / 4	\$150,000 Annually	Currently funded	Stormwater Tax Assessment	1/18/2023	Heather Urwiller
993	Tarpon Springs / Streets & Stormwater Division	Vehicles	Purchase CAT Mini Excavator & Trailer for in-house construction and maintenance of Stormwater infrastructure. Estimated completion time: Ongoing. / 1,3	\$89,000	Purchasing	Stormwater Tax Assessment	1/18/2023	Heather Urwiller
1170	Tarpon Springs / Streets & Stormwater Division	Spruce Street flood abatement SAP 29	Project to reduce/eliminate localized flooding and emergency vehicle access.	\$151,230	Currently Funded & Included in the Pent/Grosse Project	Stormwater Tax Assessment, EMPATF, HMGP; PDM Program	1/18/2023	Heather Urwiller
1260	Tarpon Springs / Streets & Stormwater Division	Pent/Grosse flood abatement SAP 5	Project to reduce/eliminate localized flooding and emergency vehicle access.	\$2,183,614	Construction Contract Awarded/ Estimated Completion Jan 2022	Stormwater Tax Assessment, SWFWMD Cooperative Funding Initiative (50% Match)	1/18/2023	Bob Robertson

Pinellas County  
Local Mitigation Strategy 2022-2023  
Appendix D, Table D-1: Mitigation Initiatives

Total Score	Jurisdiction/ Organization	Project Name	Description/ Natural Hazard Addressed (Key: 1=Flooding; 2=Storm Wind; 3=Erosion; 4=All Hazard)	Est. Cost	Timeframe / Status	Possible Funding Sources	Date Last Reviewed	Updated By
1190	Tarpon Springs / Streets & Stormwater Division	Jasmine/Highland flood abatement SAP 5 & 33	Project to reduce/eliminate localized flooding and emergency vehicle access.	\$993,382	Design Completion - Awaiting Funding	Stormwater Tax Assessment, SWFWMD Cooperative Funding Initiative (50% Match) - Not resubmitted for CFI at this time???	1/18/2023	Heather Urwiller
1170	Tarpon Springs / Streets & Stormwater Division	Avokca Drive flood abatement SAP 74	Project to reduce/eliminate localized flooding and emergency vehicle access.	\$255,600	Currently Unfunded	Stormwater Tax Assessment, EMPATF, HMGP; PDM Program	1/18/2023	Heather Urwiller
1140	Tarpon Springs / Streets & Stormwater Division	Mango Street & Mango Circle flood abatement SAP 102	Project to reduce/eliminate localized flooding and emergency vehicle access.	\$840,000	Construction Award 10/2020, complete 11/2021???	Stormwater Tax Assessment, EMPATF, HMGP; PDM Program	1/18/2023	Bob Robertson
1058	Tarpon Springs / Streets & Stormwater Division	Grandview Dr - Drainage Improvements	Project to reduce/eliminate localized flooding and emergency vehicle access.	Design WIP Estimated \$63,000	Design Phase & Easement Acquisition Process	Stormwater Tax Assessment, EMPATF, HMGP; PDM Program	1/18/2023	Anthony "Tony" Mannello - CTS - Public Works - Streets & Stormwater Supervisor
1068	Tarpon Springs / Streets & Stormwater Division	Pinellas Trail Culvert at Meres Crossing - Drainage Improvements	Project to reduce/eliminate localized flooding and emergency vehicle access.	Design WIP Estimated \$43,000	Design Phase Alternatives being considered	Stormwater Tax Assessment, EMPATF, HMGP; PDM Program	1/18/2023	Anthony "Tony" Mannello - CTS - Public Works - Streets & Stormwater Supervisor
1194	Tarpon Springs / Streets & Stormwater Division	Roosevelt Blvd & Canal St - Drainage Improvements	Project to reduce/eliminate localized flooding and emergency vehicle access.	Design \$52,000	Design Phase	Stormwater Tax Assessment, EMPATF, HMGP; PDM Program	1/18/2023	Anthony "Tony" Mannello - CTS - Public Works - Streets & Stormwater Supervisor
1160	Tarpon Springs / Streets & Stormwater Division	Coburn Drive flood abatement SAP 39	Project to reduce/eliminate localized flooding and emergency vehicle access.	\$210,040	Currently Unfunded	Stormwater Tax Assessment, EMPATF, HMGP; PDM Program	1/18/2023	Heather Urwiller
1160	Tarpon Springs / Streets & Stormwater Division	Levis between Lime & Oakwood flood abatement SAP 25	Project to reduce/eliminate localized flooding and emergency vehicle access.	\$248,638	Currently Unfunded	Stormwater Tax Assessment, EMPATF, HMGP; PDM Program	1/18/2023	Heather Urwiller
1190	Tarpon Springs / Streets & Stormwater Division	Kenneth Way & Seaside flood abatement SAP 57	Project to reduce/eliminate localized flooding and emergency vehicle access.	\$91,000	Currently Unfunded	Stormwater Tax Assessment, EMPATF, HMGP; PDM Program	1/18/2023	Heather Urwiller
740	Tarpon Springs/Streets & Stormwater Division	Whitcomb Bayou Coastal Resiliency Project	Project to reduce/eliminate localized flooding and to stabilize the shoreline by raising the shoreline elvation with combination of T-walls, Berms, and Seawalls. Multi-jurisdictional project will require coordination with Pinellas County.	\$40,000,000	Preliminary Design and Grant Funding Evaluation and Applications	BRIC, HMGP, other	1/18/2023	Bob Robertson
963	Tarpon Springs / Utilities	Afraras Lift Station Replacement	Project to replace aging wastewater lift station that is a pumping station to Sponge Docks.	\$1,250,000	Currently Unfunded	CDBG Mitigation Grant; Water Sewer Enterprise Fund	1/18/2023	Thomas Kiger
1071	Tarpon Springs / Utilities	Dewatering Building Hardening	Project to harden the dewatering buiding at Advanced Wastewater Treatment Facility against windstorm damage for continued operations during hurricanes.	\$2,400,000	Currently Unfunded	CDBG Mitigation Grant; Water Sewer Enterprise Fund	1/18/2023	Thomas Kiger
1112	Tarpon Springs / Utilities	Operations Building Hardening	Project to harden the operations building at the CTS Advanced Waterwater Treatment Facility against flooding damage to ensure continued operations during hurricanes.	\$3,060,000	Partially funded at \$1.2M / Design to begin in FY2023	CDBG Mitigation Grant; Water Sewer Enterprise Fund	1/18/2023	Thomas Kiger
993	Tarpon Springs / Utilities	Lime and Huey Lift Station Replacement	Project to replace the aging Lime and Huey wastewater lift station which provides a low-income area of TS with wastewater service.	\$1,900,000	30% Design Complete / Construction start in CY 2023	CDBG Mitigation Grant; Water Sewer Enterprise Fund; Water Sewer Impact Fees	1/18/2023	Thomas Kiger
1149	Tarpon Springs / Utilities	RO Plant Generator Capacity	Project to install permanent generators at the water production wells for the TS RO Plant. Currently have 7 wells w/ no funded plan for permanent backup power supply.	\$210,000	Funded / award 9-2020 / completion 7-2021	CDBG Mitigation Grant; Water Sewer Enterprise Fund	1/18/2023	Thomas Kiger
897	Tarpon Springs / Utilities	Wastewater Treatment Facility Nutrient Removal Process Improvements	Project to upgrade the nutrient removal process at the CTS Advanced Wastewater Treatment Facility to improve nutrient removal and energy efficiency.	\$3,300,000	Currently Unfunded	CDBG Mitigation Grant; Water Sewer Enterprise Fund	1/18/2023	Thomas Kiger
1077	The Pinellas Suncoast Transit Authority (PSTA)	Solar and battery energy storage system infrastructure	The Pinellas Suncoast Transit Authority (PSTA) seeks to purchase and install the solar and battery energy storage system infrastructure required to support 100% of PSTA's power needs during an outage in Pinellas County from a hazard event such as flooding or a hurricane. This solar and battery infrastructure would allow PSTA operations to function autonomously "off-the-grid", as well as power their electric bus fleet for any power-outage event. This would mitigate the risk of any fuel shortage that could impact The Authority during emergency times, as well as allow any number of the electric bus fleet to be energized and dispatched throughout the county to serve as power generators for electrical infrastructure deemed critical in Pinellas during a power outage.	\$22,439,312	Currently Unfunded	HMGP	1/18/2023	Robert J. Gavin, PE
903	Town of Belleair / Water Treatment Plant	Water Wells back up power generator	Supply back up power generation and new pumps to RTW water supply wells for potable water generation.	\$114,000	Currently Unfunded	HMGP	1/18/2023	
971	Town of Belleair / Building Maintence	Emergency employee shelter, life support services retrofit	During preparation for hurricane Irma in the fall of 2017, it was noted that several key life support functions were not connected to back up generator or functioning properly, LMS funds are needed to connect/repair these key elements in the town's employee emergency shelter	\$21,000	Currently Unfunded	HMGP	1/18/2023	
1083	Town of Belleair / Building Department	Town Hall/Police Department facility hardening, critical facility	Upgrade to town hall/PD critical facility roof for more secure facility during hurricane or other disasters.	\$150,000	Currently Unfunded	HMGP	1/18/2023	

Pinellas County  
Local Mitigation Strategy 2022-2023  
Appendix D, Table D-1: Mitigation Initiatives

Total Score	Jurisdiction/ Organization	Project Name	Description/ Natural Hazard Addressed (Key: 1=Flooding; 2=Storm Wind; 3=Erosion; 4=All Hazard)	Est. Cost	Timeframe / Status	Possible Funding Sources	Date Last Reviewed	Updated By
1083	Town of Belleair/ Streets and Stormwater	Bridge scour protection for island bridges	Install scour protection at 2 bridges in town. (North Pine Circle, and Winston Drive)	\$85,000	Currently Unfunded	HMGP	1/18/2023	
1065	Town of Belleair / Building Maintenance	Water Plant Hazardous materials mitigate response kits	Buy new breathing apparatus, chemical spill kits, and chemical starter for security measures.	\$31,500	Currently Unfunded	HMGP	1/18/2023	
926	Town of Belleair / Building Maintenance	Town of Belleair's Water plant , Secure facilities	Install 10 cameras and install 4 door locks to protect facility from attacks	\$15,786	Currently Unfunded	HMGP	1/18/2023	
1119	Town of Belleair / Building Department	Town Hall/Police Department security measure for critical facility	Install 2 pull down shutters for door ways to secure town hall and police department	\$6,000	Currently Unfunded	HMGP	1/18/2023	
1270	Town of Belleair / Building Department	Generator Installation Town Hall/Police Department	1, 2	\$138,476	6 months	HMGP Hurricane Hermine	1/18/2023	Greg Lauda
980	Town of Belleair / Support Services	Town Hall Storm Mitigation	Mitigate town hall (901 Ponce de Leon Blvd.). Estimated completion time: more than 12 months. / 2	\$40,000	Currently Unfunded	EMPATF, HMGP; PDM Program	1/18/2023	
	Town of Belleair/Public Works	Ponce De Leon and Osceola, Street and Drainage improvements.	Phase 3 and 4 of Ponce De Leon and Osceola, Street and Drainage improvements.	\$2,700,000	Currently Unfunded	HMGP	1/18/2023	Greg Lauda
	Town of Belleair/Public Works	Palmetto Street Drainage improvements	Final Phase of Palmetto Street drainage improvements	\$1,400,000	Currently Unfunded	HMGP	1/18/2023	Gregg Lauda
900	Town of Belleair/Public Works	Shirley & Carl Ave	New stormwater infastructure for .30 miles with new baffle boxes, This will reduce floding in area	1.9 Million	Currently Unfunded	HMGP	1/18/2023	Gregg Lauda
1086	Town of Belleair/Public Works	Indian Rocks Road Project	.0539 miles of new storm water underground drainage, this project will relieve Indian Rocks Road form being in future flooding events	4.8 Million	Currently Unfunded	HMGP	1/18/2023	Gregg Lauda
834	Treasure Island / Public Works	Reconstruct Public Works Garage and Yard	Rebuild the public works service facility, hardening it to withstand modern windload standards and elevate it to address sea level rise and meet FEMA standards for structures in a Special Flood Hazard Area. /4	\$7,000,000	Currently Unfunded; Projected FY2023	HMGP; HMGP Planning, local funds	1/18/2023	Jamie Viveiros
965	Treasure Island / Public Works	Reconstruct the Public Safety and Public Works Buildings	Reconstruct the Public Safety and Public Works facilites to withstand modern windload standards, elevate it to address sea level rise, and to bring the offices and firefighters living quarters to FEMA compliant levels. /4	\$700,000	Currently Unfunded; Projected FY2023	HMGP; HMGP Planning, local funds	1/18/2023	Jamie Viveiros
1230	Treasure Island / Public Works	East Causeway Drainage and Roadway Improvements	Enhance drainge facilities on the East Causeway to expand capacity, reduce flooding, improve roadway conditions, the ability to evacuate all properties west of Park Street, and reduce pollutant discharge into Boca Ciega Bay . /1	\$2,139,000	Funded FY2020 and FY2021 by City, state grant and SWFWMD grant	DOT Grant (County Incentive Program); Capitalization Grants for Clean Water State Revolving Funds; HMGP; HMGP Planning; Local Funding	1/18/2023	Jamie Viveiros
1710	Treasure Island / Public Works	Citywide Seawall Assessment and Repair for Locations NOT listed as a separate project (street ends, etc.)	Citywide Seawall repair/replacement. Estimated completion time: more than 12 months. / 4	\$1,886,330	Funded FY2021 - FY2025	EMPATF, HMGP; PDM Program; CDBG	1/18/2023	Jamie Viveiros
1060	Treasure Island / Public Works	City Hall Seawall Rehabilitation	Repair/replace seawall adjacent to critical facilities: Estimated completion time: more than 12 months. / 3	\$660,000	Currently Unfunded	EMPATF, HMGP; PDM Program; CDBG	1/18/2023	Jamie Viveiros
1270	Treasure Island / Public Works	Replacement of City Hall and seawall rehabilitation	Harden critical municipal facilities - Admin, Fire, and Police Estimated completion time: more than 12 months. / 2	\$8,000,000	Currently Unfunded	EMPATF, HMGP; PDM Program; CDBG; FMAP	1/18/2023	Jamie Viveiros
970	Treasure Island / Public Works	Kingfish Park Seawall Rehabilitation	Repair/replace seawall: Estimated completion time: less than 12 months. / 3	\$50,000	Currently Unfunded	EMPATF, HMGP; PDM Program; CDBG	1/18/2023	Jamie Viveiros
1299	Treasure Island	EOC Generator	Generator for an Emergency Operations Center (EOC) shared by three municipalities.	\$150,000	Funded for FY24.	Local funds.	1/18/2023	Jamie Viveiros
New Projects								

## **TABLE D-2 ACCOMPLISHMENTS**

**Pinellas County**  
**Local Mitigation Strategy 2022-2023**  
**Appendix D, Table D-2: Accomplishments**

Municipality / Entity	Project	Est. Cost	Status	Funding	Date Last Reviewed	Date Last Updated	Updated By
Belleair Beach	Master Stormwater Plan for city-wide stormwater improvements and flood prevention	\$55,000	Completed 2016	Currently Budgeted Local	1/18/2023	8/17/2017	Lynn Rives
Belleair Beach	Harbor Dr. & 1st Street	\$381,000	Completed	Local	1/18/2023	9/5/2019	Lynn Rives
Belleair Beach	Harrison Avenue Bridge Repair	\$160,000	Completed	Local	1/18/2023	11/8/2018	Lynn Rives
Belleair Beach	Belle Isle Stormwater Improvement	\$122,000	Completed	Local	1/18/2023	12/6/2018	Lynn Rives
Belleair Beach	Belle Isle Avenue Seawall Repair	\$329,000	Completed	Local	1/18/2023	12/6/2018	Lynn Rives
Belleair Beach	Harbor Drive & 2nd Street	\$185,000	Completed	Local	1/18/2023	11/8/2018	Lynn Rives
Belleair Beach	Harrison Avenue Seawall	\$105,000	Completed	Local	1/18/2023	11/8/2018	Lynn Rives
Belleair Beach	Master Drainage Plan	\$50,000	Completed	Local	1/18/2023	9/5/2019	Lynn Rives
Belleair Beach	Traffic Light Mitigation	\$447,000	Completed	EMPATF, HMGP; PDM Program Penny for Pinellas	1/18/2023	9/5/2019	Lynn Rives
Belleair Beach	3rd-6th St - Drainage Improvement Plan - to prevent High Tide Flooding 3rd-6th Street	\$356,000	Completed	Local	1/18/2023	11/9/2020	Lynn Rives
Belleair Beach	7th-8th Street Drainage Improvement Plan	\$305,000	Completed	Local	1/18/2023	9/27/2021	Kyle Riefler
Belleair Beach	Stormwater Management - Stormwater repairs, improvements, and replacing curb work. Replace valley curbs Estimated completion time: more than 12 months. / 1	\$172,292	Completed	Local Funds	1/18/2023	9/27/2021	Kyle Riefler
Belleair Beach	Gulf Blvd. Utility Undergrounding Phase 0 - Undergrounded overhead utilities and equipment to build resiliency and improve aesthetics in Belleair Beach. Phase included west side of Gulf Blvd. with crosswires and City Marina.	\$1,727,398	Completed	Penny IV, Local Funds	1/18/2023	9/11/2022	Kyle Riefler
Clearwater	Former Clearwater Christian College Property Acquisition	\$1,300,000	Project complete (2016)	Local	1/18/2023	10/4/2016	Sarah Kessler
Clearwater	Fire Station 45 and EOC	\$10,500,000	Construction complete (2016)	Local and State	1/18/2023	10/4/2016	Sarah Kessler
Clearwater	Fire Station 50	\$3,814,740	Completed (2017)	Local and State	1/18/2023	12/19/2018	Sarah Kessler
Clearwater	Gas Complex	\$13,000,000	Completed	EMPATF, HMGP; PDM Program	1/18/2023	10/23/2019	Sarah Kessler
Clearwater	Police Shooting Range	\$2,382,819	Complete (2017)	Local and State	1/18/2023	12/19/2018	Sarah Kessler
Clearwater	Public Works Complex – Phase I Street Sweeping Facility	\$1,975,349	Design Complete	Local and State	1/18/2023	12/19/2018	Sarah Kessler
Clearwater	Berkley Place Drainage Improvements	\$360,000	Project complete in 2016	Local and State	1/18/2023	10/4/2016	Sarah Kessler
Clearwater	Lower Spring Branch Stormwater Improvements	\$1,800,000	Currently in Design (2016)	Local and State	1/18/2023	10/4/2016	Sarah Kessler
Clearwater	Byram Ditch Bank Stabilization	\$330,000	Project complete in 2015.	Local and State	1/18/2023	10/4/2016	Sarah Kessler
Clearwater	Druid Road Stormwater Improvements	\$2,825,000	Currently in Construction (2016)	Local and State	1/18/2023	10/4/2016	Sarah Kessler
Clearwater	Mango Avenue Stormwater Improvements	\$1,600,000	Completed (2017)	Local and State	1/18/2023	12/19/2018	Sarah Kessler
Clearwater	Glen Oaks Stormwater Improvement Project	\$2,500,000	Project completed in 2006.	Local and State	1/18/2023	10/4/2016	Sarah Kessler
Clearwater	Lake Bellevue Stormwater Improvements	\$1,300,000	Project complete in 2007	Local and State	1/18/2023	10/4/2016	Sarah Kessler
Clearwater	Woodlawn Terrace Stormwater Improvements	\$800,000	Project complete in 2015	Local and State	1/18/2023	10/4/2016	Sarah Kessler
Clearwater	Hillcrest Avenue Bypass Culvert	\$3,900,00	Currently in Construction (2018)	Local and State	1/18/2023	12/19/2018	Sarah Kessler
Clearwater	East Gateway Stormwater Improvements	\$12,000,000	Currently in Construction (2018)	Local and State	1/18/2023	12/19/2018	Sarah Kessler
Clearwater	Solid Waste Transfer Facility	\$18,000,000	Currently in Construction (2018)	Local and State	1/18/2023	12/19/2018	Sarah Kessler
Clearwater	Cooper’s Point Master Plan	\$200,000	Project complete in 2017	Local and State	1/18/2023	12/19/2018	Sarah Kessler
Clearwater	Renovations to Beach Marina Buiding	\$2,500,000	Project complete (2016)	Private and Local	1/18/2023	10/4/2016	Sarah Kessler
Clearwater	Purchase Friendly Village of Kapok Mobile Home Park to eliminate repetitive flood losses. A nature park was created on the site along with storm water improvements for the area to prevent flooding.	\$17,000,000	Complete	Local and State	1/18/2023	10/4/2016	Sarah Kessler
Clearwater	Replace seawalls throughout Clearwater Beach. Estimated completion time: more than 12 months.	\$5,000,000	Ongoing	EMPATF, HMGP; PDM Program	1/18/2023	12/19/2018	Sarah Kessler
Clearwater	Develop a CERT that is trained on How to Educate Homeowners on Mitigation Techniques.	\$37,000	Complete	Local and State	1/18/2023	10/4/2016	Sarah Kessler
Clearwater	Purchase 2000Kw mobile generator	\$375,000	Complete (2018)	Local and State	1/18/2023	12/19/2018	Sarah Kessler
Clearwater	Jeffords Street Outfall	\$1,000,000	Complete (2018)	Local and State	1/18/2023	12/19/2018	Sarah Kessler

Pinellas County  
Local Mitigation Strategy 2022-2023  
Appendix D, Table D-2: Accomplishments

Municipality / Entity	Project	Est. Cost	Status	Funding	Date Last Reviewed	Date Last Updated	Updated By
Clearwater	Magnolia Street Outfall	\$4,000,000	Completed (2017)	Local and State	1/18/2023	12/19/2018	Sarah Kessler
Clearwater	Woodlawn Terrace Floodplain Storage	\$1,000,000	Completed (2017)	Local and State	1/18/2023	12/19/2018	Sarah Kessler
Clearwater	Smallwood Circle Drainage Improvements	\$1,500,000	Completed (2017)	Local and State	1/18/2023	12/19/2018	Sarah Kessler
Clearwater	Clearwater Gas Complex	\$23,300,000	Currently under Construction	Local and State	1/18/2023	12/19/2018	Sarah Kessler
Clearwater	<b>Elevate 9 Clearwater Beach lift stations</b> - This project includes elevating nine (9) lift stations on Clearwater Beach. The lift station telemetry, control, and power connections would be elevated at least two feet above the base flood elevation and storm surge height. Elevating the lift stations reduces the likelihood that they would be damaged by a storm and prevents sanitary sewer overflows. This cost of preventative measure is \$77,000 per elevated lift station. The estimated construction length would be 6 months.	\$616,000	Complete	HMGP	1/18/2023	12/16/2022	Sarah Kessler
Clearwater	<b>Purchase 2 mounted power stations</b> - This project is for the purchase of two (2) portable 419KW trailer mounted power stations. Although the City's reclamation and water production facilities are on Duke Energy's critical facilities list, power outages due to storm damage can occur at Public Utilities facilities. The trailer mounted power stations allow for flexibility of redundant power supply that can be transported to any of the City's three (3) reclamation facilities. Having emergency power at facilities can prevent a sanitary sewer overflow. The cost of this preventative measure is \$150,000 per power station. The estimated length of time to acquire equipment is 90 days.	\$300,000	Complete	HMGP	1/18/2023	12/17/2022	Sarah Kessler
Clearwater	<b>Purchase 7 mounted generators</b> - This project is the purchase of seven (7) portable 90kW trailer mounted generators. These generators would only be used to maintain lift stations operations during power outages, often associated with extreme weather. The generators would allow lift station without power to temporarily pump the waste water collection system. Maintaining power at a lift station prevents sanitary sewer overflows. The cost of this preventative measure is \$70,000 per generator. The estimated length of time to acquire equipment is 90 days.	\$490,000	Complete	HMGP	1/18/2023	12/18/2022	Sarah Kessler
Clearwater	<b>Fire Station 46</b> – Mandalay - Construction of a new fire station to meet current building standards. Added 2016 /4	\$4,305,560	Complete	EMPATF, HMGP; PDM Program	1/18/2023	12/19/2022	Sarah Kessler
Clearwater	<b>District 3 Headquarters</b> - Rebuild Police Station to be resilient and address site flooding Added 2016 /4	\$3,505,000	Complete	EMPATF, HMGP; PDM Program	1/18/2023	12/20/2022	Sarah Kessler
Dunedin	Lake Earl to Skyeloch Piping.	\$35,000	Complete	State	1/18/2023		
Dunedin	Lake Sperry pipe lining.	\$150,000	Complete	State	1/18/2023		
Dunedin	Elevated five (5) repetitive loss structures	\$307,268	Complete	State	1/18/2023		
Dunedin	Retrofit 2 structures to reduce flood damage potential	\$174,872	Underway	State	1/18/2023		
Dunedin	Rebuild 1 Structure	\$119,746	Complete	State	1/18/2023		
Dunedin	Storm Shutters for Municipal Services Building, 750 Milwaukee Ave.; City Hall, 542 Main St., and the Sheriff's North County Sub-station, 737 Loudon Ave.	\$25,000	Municipal Services Building and Sheriff's North County Sub-station Projects completed with HMGP funds in 2007. City Hall Project found to be infeasible and was deleted.	HMGP and Local	1/18/2023		
Eckerd College	Project: Construction of a new Center for Molecular and Life Sciences	\$25,000,000	Completed 2013	Local	1/18/2023	10/4/2016	Lisa Mets
Eckerd College	Project: Hardening envelope (roof, windows) Sheen Science Center (3 buildings)	\$7,500,000	2013/14	Local	1/18/2023	10/4/2016	Lisa Mets



Pinellas County  
Local Mitigation Strategy 2022-2023  
Appendix D, Table D-2: Accomplishments

Municipality / Entity	Project	Est. Cost	Status	Funding	Date Last Reviewed	Date Last Updated	Updated By
Eckerd College	Nielsen Center for Visual Arts. (Project entailed demolition of vulnerable arts buildings and studios, and construction of new hardened, storm-resistant Center for Visual Arts.	\$17,000,000	Completed in 2018	Local	1/18/2023	12/14/2018	Lisa Mets
Eckerd College	Project: Hardening envelope of McArthur Gymnasium	\$194,000	Completed in 2020	State HLMP	1/18/2023	10/29/2020	Lisa Mets
Gulfport	Retrofit City Hall: Harden skylights in City Hall to withstand hurricane force winds (2401 - 53rd Street South)	\$1,000	Completed 2000/2001	Local	1/18/2023	10/27/2017	Michael Taylor
Gulfport	Thermal Imaging Camera: Purchase Thermal Imaging camera for post-storm search and rescue, and hazard abatement.	\$10,000	Completed 2004	Local	1/18/2023	10/27/2017	Michael Taylor
Gulfport	Retrofit City Hall: Install window protection devices (shutters) at City Hall, Fire Station, and Community Development buildings (2401 - 53rd Street South, 5314 - 23rd Avenue South, and 5330 – 23rd Avenue South, respectively)	\$25,000	Completed 2008	HMGP and Local	1/18/2023	10/27/2017	Michael Taylor
Gulfport	Fire Station Wind Retrofit: Harden Fire Station 17 overhead apparatus bay doors, and exterior doors of Fire Administration Building to withstand 125 mph + winds (5314 – 23rd Avenue South).	\$100,000	Completed 2008	Local	1/18/2023	10/27/2017	Michael Taylor
Gulfport	Thermal Imaging Camera: Purchase Thermal Imaging camera for post-storm search and rescue, and hazard abatement.	\$7,000	Completed 2014	Local	1/18/2023	10/27/2017	Michael Taylor
Gulfport	Hardening of Critical Facilities: 2 lift stations - Install hurricane resistant windows, window protection devices, storm resistant exterior doors, and remove louvers in exterior walls and infill with concrete block.	\$15,000	Completed 2015	Local	1/18/2023	10/27/2017	Michael Taylor
Indian Rocks Beach	Demolished ten (10) pre-FIRM non-conforming structures and replaced them with conforming structures	\$2,432,000	Complete	Private	1/18/2023	10/9/2017	Dean Scharmen
Indian Rocks Beach	27th Ave. and 1st St. drainage project to mitigate local flooding and provide treatment of local storm water runoff.	\$260,000	Complete	Local and State	1/18/2023	10/9/2017	Dean Scharmen
Indian Rocks Beach	Design 11th Ave. through 13th Ave. drainage project to mitigate local flooding.	\$290,000	Complete	Local	1/18/2023	10/9/2017	Dean Scharmen
Indian Rocks Beach	Reclamation of 1.2 acres of wetlands to act as a flood buffer.	\$100,000	Complete	Local	1/18/2023	10/9/2017	Dean Scharmen
Indian Rocks Beach	Dune Walkovers	\$114,00	Complete	Local	1/18/2023	10/9/2017	Dean Scharmen
Indian Rocks Beach	Small Basin Reconstruction	\$375,000	Complete	Local	1/18/2023	10/9/2017	Dean Scharmen
Indian Rocks Beach	Stormwater Reconstruction	\$160,000	Complete	Local	1/18/2023	10/9/2017	Dean Scharmen
Indian Rocks Beach	20th Avenue Stormwater Improvements	\$231,024	Complete	SWFWMD grant, IRB CIP	1/18/2023	10/9/2017	Dean Scharmen
Indian Rocks Beach	Street Resurfacing	\$420,305	Complete	CIP, SWFMD	1/18/2023	10/9/2017	Dean Scharmen
Indian Rocks Beach	Flood Mitigation Buyout - Provide a grant of up to \$15,000 per structure for the removal of noncompliant repetitive loss properties and pre-FIRM structures that are floodprone or at high risk/exposure to being flooded or experience wave action/erosion. / 1	\$150,000	Complete	FMAP; HMGP; PDM Program, Penny for Pinellas, CDBG, Nonpoint Source Implementation Grants, Residential Construction Mitigation Program	1/18/2023	1/6/2022	Dean Scharmen
Indian Rocks Beach	Gulf Blvd Utility Undergrounding - Phase I. To make aesthetic and safety improvements along Gulf Blvd, including the undergrounding of the Gulf Blvd overhead utilities and equipment. Phase 1 of the project, about \$4 million in cost would start at the southern boundary of the City (Whitehurst) and continue north to State Road 688. /4	\$4,120,180	Complete. Design of Phase 1 is complete and construction has begun.		1/18/2023	1/6/2022	Dean Scharmen
Indian Shores	Storm water management in redevelopment area to control and mitigate flooding. FY97/98	\$60,000	Complete	Local and State	1/18/2023		
Indian Shores	FMAP elevation of existing repetitive loss struture. FY97/98	\$22,500	Complete	Private and State	1/18/2023		
Indian Shores	FMAP acquisition and demolition of repetitive loss structure. FY97/98	\$26,797	Complete	Local and State	1/18/2023		
Indian Shores	Installed new seawall to mitigate flooding. FY97/98	\$16,770	Complete	Local and State	1/18/2023		
Indian Shores	Installed new seawall and replaced seawall cap. FY97/98	\$5,080	Complete	Local	1/18/2023		
Indian Shores	Storm water management at 19305 Gulf Blvd. (Town Hall complex) FY97/98	\$80,000	Complete	Local and State	1/18/2023		
Indian Shores	FMAP elevation of repetitive loss existing structure. FY00/01	\$41,683	Complete	Local and State	1/18/2023		
Indian Shores	Development of Town master drainage plan. FY01/02	\$80,000	Complete	Local and State	1/18/2023		

Pinellas County  
Local Mitigation Strategy 2022-2023  
Appendix D, Table D-2: Accomplishments

Municipality / Entity	Project	Est. Cost	Status	Funding	Date Last Reviewed	Date Last Updated	Updated By
Indian Shores	Purchase property in redevelopment area for potential site of future retention pond. FY01/02	\$40,000	Complete	Local	1/18/2023		
Indian Shores	Implement Town-wide storm water master plan. FY02/03	\$300,000	Underway	Local and State	1/18/2023		
Indian Shores	Purchase and installation of an auxiliary generator for the Critical Facility, Town Hall, 19305 Gulf Blvd.	\$33,455	Complete	HMGP and Local	1/18/2023		
Kenneth City	In 2015, the Town completed a \$1.2M repair to a tributary of Joe’s Creek, whereby a semi-collapsed open ditch was replaced with an underground culvert/CMU box culvert system.	\$600,000	Completed	(\$600K secured through SWFWMD cooperative funding)	1/18/2023		
Kenneth City	Necessary repairs were completed to the Town’s underground fuel storage tank, along with the acquisition of an emergency generator to supply back-up power in the event of an emergency in 2015				1/18/2023		
Kenneth City	Retrofit of Critical Facility/Storm shutters on PD and City Hall	\$46,000	Completed	EMPATF;HMGP; PDM Program	1/18/2023		
Kenneth City	Repairs to existing stormwater lines damaged by July Rain event		Underway	Local	1/18/2023		
Kenneth City	Re-sheathing of Public Works Building with wind-loaded exterior	\$400,000	Underway	Local	1/18/2023		
Largo	Initiative: Hardening the new Public Works administration building by adding storm shutters and installing emergency generators. This facility contains the Public Works Emergency Operations Center. Benefit: Averting wind damage would minimize or eliminate post-disaster disruption of municipal services. The Public Works administration structure is valued at \$1.1 million.	\$89,151	Completed		1/18/2023	9/16/2016	Matthew DiFiore
Largo	Initiative: Hardening the new Environmental Services (sewer) administration building by adding storm shutters and installing emergency generators. This facility contains the Environmental Services Emergency Operations Center. Benefit: Averting wind damage would minimize or eliminate post-disaster disruption of municipal services. The Environmental Services administration structure is valued at \$1.8 milllion.	\$89,151	Completed		1/18/2023	9/16/2016	Matthew DiFiore
Largo	Initiative: Installing an emergency generator at the new administration building for the Wastewater Treatment Plant. The generator will insure the Plant's ability to provide continuous service during power failures. Benefit: Keeping the WWTP fully operational would help avoid sanitary sewer conveyance system backup that could cause significant damage to private properties in the event of a power failure caused by a natural or man-made disaster event.	\$859,072	Completed	Local	1/18/2023	9/16/2016	Matthew DiFiore
Largo	Initiative: Hardening the Largo City Hall, Police, and Emergency Operations Center buildings by adding storm shutters, removing abandoned air conditioning equipment from the roof, and installing emergency generators. In addition to housing the administrations of more than half of the City's departments, this facility contains the City's centralized telephone, computer, and broadcasting systems. Benefit: Averting wind damage would minimize or eliminate post-disaster disruption of municipal services, including the EOC, police, fire, permitting, and planning operations. The Largo Municipal Complex structures are valued at \$10.9 million.	\$321,285	Completed		1/18/2023	9/16/2016	Matthew DiFiore
Largo	Hardening the new Environmental services (sewer) administration building by adding storm shutters and installing emergency generators. This facility contains the Environmental Services EOC	\$89,151	Project Completed.	HMGP/Local	1/18/2023	9/16/2016	Matthew DiFiore
Largo	Channel 1 Drainage/Infrastructure Plan	\$1,919,213	Completed 2007	Local	1/18/2023	9/16/2016	Matthew DiFiore
Largo	Suncoast Manor Drainage//Old Valencia Blvd. Plan	\$274,132	Completed 2007	Local	1/18/2023	9/16/2016	Matthew DiFiore
Largo	McKay Creek Drainage Improvement Plan	\$1,549,460	Completed 2006	Local	1/18/2023	9/16/2016	Matthew DiFiore
Largo	Purchasing and Demolition of Repetitive Loss Properties: 132 Gatewood Drive	\$149,000	Completed 2003	Local	1/18/2023	9/16/2016	Matthew DiFiore
Largo	Purchasing and Demolition of Repetitive Loss Properties: 198 Gatewood Drive	\$190,000	Completed 2003	Local	1/18/2023	9/16/2016	Matthew DiFiore



Pinellas County  
Local Mitigation Strategy 2022-2023  
Appendix D, Table D-2: Accomplishments

Municipality / Entity	Project	Est. Cost	Status	Funding	Date Last Reviewed	Date Last Updated	Updated By
Largo	Purchasing and Demolition of Repetitive Loss Properties: 71 East Overbrook Drive	\$177,000	Completed 2005	Local	1/18/2023	9/16/2016	Matthew DiFiore
Largo	Purchasing and Demolition of Repetitive Loss Properties: 2463 19th Place SW	\$127,500	Completed 2005	Local	1/18/2023	9/16/2016	Matthew DiFiore
Largo	Rain Gauge Monitoring System Base Unit (32 units at \$1800 per unit)	\$57,600	Completed 1995-2007 (more added as budget permits)	Local	1/18/2023	9/16/2016	Matthew DiFiore
Largo	Base Level Monitoring System for Rain Gauge System, 24 hours a day service (2 units), \$6,000 per unit	\$12,000	Completed 1995-2007 (more added as budget permits)	Local	1/18/2023	9/16/2016	Matthew DiFiore
Largo	SCADA System for remote monitoring	\$1,350,000	Completed 2004	Local	1/18/2023	9/16/2016	Matthew DiFiore
Largo	Fire Station Bay Doors	\$144,710	Completed	General, (Local Fund)	1/18/2023	9/16/2016	Matthew DiFiore
Largo	Waste Water Reclamation Facility Warehouse	\$3,426,795	Completed	Wastewater (Local Fund)	1/18/2023	9/16/2016	Matthew DiFiore
Largo	IT Data Center	\$3,189,569	Completed	LOST	1/18/2023	9/16/2016	Matthew DiFiore
Largo	Community Center	\$10,918,386	Completed	LOST	1/18/2023	9/16/2016	Matthew DiFiore
Largo	Stormwater Program Update	\$250,000	Completed	Stormwater (Local Fund)	1/18/2023	10/25/2017	Jerald Woloszynski
Madeira Beach	13001 Boca Avenue - Mitigation of SRL Property 13001 Boca Avenue	\$200,000	Completed	HMGP/Local	1/18/2023	11.17.2020	Tamara Harvie
Madeira Beach	Stormwater Master Plan Improvements	\$218,429	Completed	Local	1/18/2023	11.17.2020	Tamara Harvie
Madeira Beach	Beach Groin Rehabilitation Project – Repair and maintain the City’s existing beach groin system. (This system was installed in the 1950’s. Because of the effectiveness of this system, Madeira Beach has not required other beach renourishment efforts.)	\$275,000	Completed 2013/14	Local	1/18/2023	11.17.2020	Tamara Harvie
Madeira Beach	Storm Drainage and Roadway Improvements Relating to Drainage – Normandy Road	\$1,180,000	Completed 2018	Local /Applied for Matching SWFWMD Cooperative Funding	1/18/2023	11.17.2020	Tamara Harvie
Madeira Beach	Storm Drainage and Roadway Improvements Relating to Drainage – Engineering Study – Boca Ciega Drive	\$80,000	Completed 2017	Local (including a portion by Local Option Sales Tax)	1/18/2023	11.17.2020	Tamara Harvie
Madeira Beach	Municipal Complex Reconstruction (City Hall, Fire Station, Recreation Center and related outside activity areas)	\$8,630,000	Completed - 2015	Localoldsmar	1/18/2023	11.17.2020	Tamara Harvie
Madeira Beach	Stormwater Outfall Cleaning	\$180,000	Completed - 2016	Local	1/18/2023	10/5/2016	Tamara Harvie
Madeira Beach	Boca Ciega roadway and Drainage Improvement Project (Address deteriorating roads, aging drainage infrastructure, store related flooding and pollutant discharge into Boca Ciega Bay)	\$3,927,000	Completed - 2017	City and SWFWMD	1/18/2023	11.17.2020	Michelle Orton
Madeira Beach	140th Ave E & Bayshore Drive North Drainage Improvement (Install a new storm grate, baffle box and a pipe outfall to Boca Ciega Bay)	\$86,800	Completed - 2015	City and SFWMD	1/18/2023	11.17.2020	Michelle Orton
Madeira Beach	American Legion Drive Drainage Improvement (Construct stormwater inlets and pipes to meet the 10 year MB design standards and install a BMP treatment train.)	\$600,000	On-going	City and SFWMD	1/18/2023	11.17.2020	Michelle Orton
Madeira Beach	Rex Place Drainage Improvement (Alleviate flooding problems, treat water prior to discharge)	\$600,000	Complete	City and SWFMD	1/18/2023	11.17.2020	Michelle Orton
Madeira Beach	137th Avenue Circle Drainage Improvements (Upsize existing stormwater inlets and pipes to meet 10 year design standards. Installing pervious pavement, nutrient separating baffle box.)	\$935,000	Complete	City and SWFMD	1/18/2023	11.17.2020	Michelle Orton
Madeira Beach	860 Bay Point (Mitigation of RL Property-Construction Plan s submitted for review and permitting)	\$210,000	Complete	HMGP & Private	1/18/2023	11.16.2020	Tamara Harvie
Madeira Beach	914 Bay Point (Mitigation of RL Property- Property sold, new owners reside out of state, yet to complete paperwork for the FEMA grant)	\$211,000	Complete	HMGP & Private	1/18/2023	11.16.2020	Tamara Harvie
Madeira Beach	13101 4th Street (Mitigation of SRL property - Demolition in progress construction plans being prepared)	\$210,000	Complete	HMGP & Private	1/18/2023	11.16.2020	Tamara Harvie
Madeira Beach	882 Bay Point Mitigation of SRL property – Design and construction plans in progress)	\$226,000	No change	HMGP & Private	1/18/2023	11.16.2020	Michelle Orton

Pinellas County  
Local Mitigation Strategy 2022-2023  
Appendix D, Table D-2: Accomplishments

Municipality / Entity	Project	Est. Cost	Status	Funding	Date Last Reviewed	Date Last Updated	Updated By
Madeira Beach	905 Bay Point Drive (Mitigation of SRL property – Ground floor under construction)	\$200,000	Complete	HMGP & Private	1/18/2023	11.16.2020	Tamara Harvie
Madeira Beach / Administration	Emergency Operations Generator - Emergency Operations Generator at City Hall to allow operations during state of emergency, power outages or other events of power loss.	\$180,000 Structure. \$95,000 Generator	Under construction. Completion date estimated 11.16.2020	FEMA Grant - General Fund	1/18/2023		Tamara Harvie
Madeira Beach	Emergency Operations Generator - Emergency Operations Generator to allow operations during state of emergency, power outages or other events of power loss. (Fire)	\$95,000	Funding Approved; Contract Executed	The funding will be a combination of HGMP grant and local funds.	1/18/2023	11/30/2021	Susan Portal
Madeira Beach / Community Development	Drainage Basin E- As depicted in the Stormwater Master Plan - Stormwater system upgrades to address flooding and tide control devices	\$3,500,000	Completed 2016	EMPATF; HMGP; PDM Program	1/18/2023		Tamara Harvie
Madeira Beach	Portions of Drainage Basin D - D8-D19 in the Stormwater Master Plan	\$12,068	Stormwater fund Proj started 3/2020 schedule complete 3/2021	EMPATF; HMGP; PDM Program	1/18/2023		Tamara Harvie
Madeira Beach/Public Works	Crystal Island Roadway & Drainage Improvement	\$12,000,000	Completed June, 2021	HMGP	1/18/2023	11/30/2021	Susan Portal
Madeira Beach / Community Development	Drainage Basin A5-A6 As depicted in the Stormwater Master Plan - Stormwater system upgrades to address flooding and tide control devices	\$2,142,000	Completed in 2018	EMPATF; HMGP; PDM Program	1/18/2023	1/12/2022	Susan Portal
Madeira Beach / Community Development	Drainage Basin D – As depicted in the Stormwater Master Plan - Stormwater system upgrades to address flooding and tide control devices	\$4,360,000	Completed	EMPATF; HMGP; PDM Program	1/18/2023	1/12/2022	Susan Portal
Madeira Beach/Fire Department	Aerial Apparatus Replacement - Replace 2004 Pierce with new aerial 78-foot ladder truck - moved to Accomplishments sheet	\$900,000	Completed		1/18/2023	12/6/2022	Susan Portal
Madeira Beach/Fire Department	Rescue Boat - Replace jet skis that are at the end of their service life with 2022 Zodiac 21-foot rescue boat - Moved to Accomplishments	\$65,000	Recently purchased	Budget	1/18/2023	12/6/2022	Susan Portal
Madeira Beach/Fire Department	SCBA Air Compressor - Replace old air compressor to fill SCBA and SCUBA bottles. - Moved to Accomplishments	\$30,000	Recently purchased	Budget	1/18/2023	12/6/2022	Susan Portal
North Redington Beach	SEWER - North Redington Beach provides sewer service for Redington Shores and NRB. Raise main lift station electrical and controls above flood plain (\$75,000). Raise emergency generator and fuel tank above flood plain (\$50,000).	Unknown	Completed, November 2008	Local/County	1/18/2023		
North Redington Beach	Stormwater Management #1 - Install storm water sewer valve to prevent storm water/tidal backup into the streets. Estimated completion time: less than 12 months. / 1	\$25,000	Completed	FMAP/HMGP/Local	1/18/2023	9/10/2019	Michelle Orton
North Redington Beach	Underground utilities throughout the side streets of NRB. This includes all streets except Gulf Boulevard.	\$2,000,000	Completed	Local	1/18/2023		
Oldsmar	Hurricane Wind Hardening Retrofit of Municipal Services Facility.	\$103,723	Complete	HMGP/Local	1/18/2023	10/31/2016	Steve Everitt
Oldsmar	Hurricane Wind Hardening Retrofit of City Hall windows.	\$145,214	Complete	Local	1/18/2023	12/14/2017	Steve Everitt

Pinellas County  
Local Mitigation Strategy 2022-2023  
Appendix D, Table D-2: Accomplishments

Municipality / Entity	Project	Est. Cost	Status	Funding	Date Last Reviewed	Date Last Updated	Updated By
Oldsmar / Public Works; Storm Water	Mitigation/ Response/ Recovery Equipment - Purchase vacuum excavation system for the maintenance and recovery of all storm water inlets and structures. Estimated completion time: less than 12 months. / 1	\$50,000	Complete	HMGP/Local/State	1/18/2023	1/24/2019	Steven Everitt
Oldsmar / Public Works; Engineering	Storm Water Management Plan - Prepare a citywide drainage plan to minimize flooding throughout the City. Estimated completion time: more than 12 months. / 1	\$100,000	Complete	FMAP; HMGP; PDM Program	1/18/2023	12/11/2019	Tatiana Childress
Oldsmar / Public Works; Facilities	Critical Facility Generator Retrofit - Replace electrical generating equipment at Water Reclamation Facility. Estimated completion time: less than 12 months. / 4	\$1,200,000	Complete	State Revolving Funds, CDBGs; FMAP; HMGP; HMGP Planning	1/18/2023	12/11/2019	Tatiana Childress
Oldsmar/ Public Works	Climate Resiliency Plan	\$200,000	Complete	Local, FDEP Coastal Resilience grant	1/18/2023	11/3/2022	Ashlee Painter
Oldsmar/Fire Rescue	Radio Communications System-UHF frequency radio system consisting of two repeaters and ten handheld radios to serve as back up communications during storm events. The system will allow for EOC to field communications during emergency events should cellular and broadband communication fail.	\$25,000	Completed	Local	1/18/2023	10/21/2021	Jason Schwabe
Pinellas County	Sediment/erosion control, sediment removal, and/or stream bank/ channel stabilization for flood control purposes		Ongoing and completed	State and Local	1/18/2023	10/26/2017	David Talhouk
Pinellas County	1) Bee Branch	\$6,570,900	Phase 2 complete, phase 1 in progress	Penny for Pinellas; SWFWMD; Grant	1/18/2023	10/26/2017	David Talhouk
Pinellas County	2) Bear Creek Channel Improvements	\$8,301,120	FY2014 Complete	Penny for Pinellas; SWFWMD	1/18/2023	10/26/2017	David Talhouk (corrected funding)
Pinellas County	3) Curlew Creek Channel A Improvements	\$7,115,800	Completed	Penny for Pinellas; SWFWMD	1/18/2023	10/26/2017	David Talhouk
Pinellas County	Animal Services Building Storm Hardening	\$256,670	Completed	HM Allocation/Local	1/18/2023	10/26/2016	
Pinellas County	Belleair Elementary School Storm Retrofit; new classroom will gain 783 shelter spaces	\$44,100	Completed	Local	1/18/2023	10/26/2016	
Pinellas County	Emergency Communications upgrade of radio system to SmartZone technology.	\$17,500,000	Complete	CIP/grants	1/18/2023	10/26/2016	
Pinellas County	EMS hardening of Sunstar Communications Center north wall and south alleyway enclosed.	\$310,000	Complete	General Fund	1/18/2023	10/26/2016	
Pinellas County	EMS A/C replacement for the radio and server room.	\$300,000	Complete	General Fund	1/18/2023	10/26/2016	
Pinellas County	EMS Sunstar Communications Center and radio room roof replacement.	\$150,000	Complete	General Fund	1/18/2023	10/26/2016	
Pinellas County	EMS Building Storm Hardening	\$272,294	Completed	HM Allocation/Local	1/18/2023	10/26/2016	
Pinellas County	High Point Elementary School Retrofit	\$6,002	Project Completed	Local	1/18/2023	10/26/2016	
Pinellas County	Medical Examiner/Forensics Building Storm Hardening	\$347,607	Completed	HM Allocation/Local	1/18/2023	10/26/2016	
Pinellas County	New Heights Elementary School Door Replacements in Building 2	\$33,927	Project Completed	Local	1/18/2023	10/26/2016	
Pinellas County	Public Works Storm Hardening - Generator Bldg., Traffic Bldg, Survey Bldg.	\$49,422	Completed	HM Allocation/Local	1/18/2023	10/26/2016	
Pinellas County	Ross Norton Community Center - Generator	\$70,322	Project Completed	Local	1/18/2023	10/26/2016	
Pinellas County	Skycrest Elementary School Storm Retrofit; new classroom will gain 783 shelter spaces	\$44,100	Completed	Local	1/18/2023	10/26/2016	
Pinellas County	Supervisor of Elections Building Storm Hardening (Starkey Rd)	\$98,271	Completed	HM Allocation/Local	1/18/2023	10/26/2016	

Pinellas County  
Local Mitigation Strategy 2022-2023  
Appendix D, Table D-2: Accomplishments

Municipality / Entity	Project	Est. Cost	Status	Funding	Date Last Reviewed	Date Last Updated	Updated By
Pinellas County	Post-Disaster Redevelopment Plan, including Health/Human Services Component	\$120,000	Project completed; to be reviewed by BCC	CPI/Local	1/18/2023	10/26/2016	
Pinellas County	Post-Disaster Redevelopment Plan - Health/Human Services Component	\$40,000	Project completed; to be reviewed by BCC	HMGP/Local	1/18/2023	10/26/2016	
Pinellas County	Comprehensive Land Development Regulations Update - includes updating floodplain management regulations		Project in progress		1/18/2023	10/26/2016	
Pinellas County	Homeless Emergency Project was awarded for 4 single-family home roof replacements	\$38,000.00	Roof replaced with current building code standards.	CDBG	1/18/2023	10/26/2016	
Pinellas County	Religious Community Services, Inc. (RCS) was awarded for roof replacement at the Food Bank.	\$40,000.00	Roof replaced with current building code standards.	CDBG	1/18/2023	10/26/2016	
Pinellas County	Pinellas County Community Development Low Interest Loan	\$1.4M	81 Single family homes received a Low Interest Loan from Pinellas County for hurricane mitigation.	CDBG; State Housing Initiatives Partners (SHIP); Housing Trust Fund (HFT)	1/18/2023	10/26/2016	
Pinellas County	Neighborhood Stabilization Program NSP	\$20,400 (est.)	10 homes remodeled, 2 with impact windows, 4 with metal storm panels	NSP 1	1/18/2023	10/26/2016	
Pinellas County	Neighborhood Stabilization Program NSP2	\$43,300 (est.)	13 homes remodeled, 4 with impact windows, 9 with metal storm panels	NSP2	1/18/2023	10/26/2016	
Pinellas County	Neighborhood-based education and outreach on County issues of concern (i.e. hurricane preparedness, mosquito prevention, surface water quality, etc.).		Ongoing project in progress	CDBG	1/18/2023	10/26/2016	
Pinellas County	The Glades Drainage Assessment	\$1,089,200	Completed	Penny for Pinellas/ Local	1/18/2023	10/26/2016	
Pinellas County	Cross Bayou Watershed Plan (132A)	\$514,600	Completed FY2013	Penny for Pinellas	1/18/2023	10/26/2017	Reviewed by: David Talhouk
Pinellas County	Keystone Road Reconstruction	\$16,805,900	Completed FY2013	Penny for Pinellas	1/18/2023	10/26/2016	
Pinellas County	Bryan Dairy Road - Starkey to 72nd St.	\$9,275,400	Completed FY2013	Penny for Pinellas; Grants	1/18/2023	10/26/2016	
Pinellas County	Cross Bayou Watershed Plan	\$252,310	Completed FY2013	Penny for Pinellas; SWFWMD; Grant	1/18/2023	10/26/2016	
Pinellas County	Starkey Basin Watershed Mgt. Plan	\$607,200	Completed FY2013	Penny for Pinellas; SWFMD; Gov't Reimbursement	1/18/2023	10/26/2016	
Pinellas County	Public Safety Facilities & Centralized Communications Center	\$72,981,800	Completed	Penny for Pinellas	1/18/2023	10/26/2016	
Pinellas County	Sea Level Rise: Implemented mulit-departmental County Climate Team; joined efforts with TBRPC; contracted with UF/Sea Grant Program to initiate sea level rise conversations with municipalities	\$15,000	Ongoing	General Fund	1/18/2023	10/26/2016	
Pinellas County	Lealman Area Drainage Improvements (1628)	\$881,930	FY2012 to FY2014 Completed	Penny for Pinellas	1/18/2023	10/26/2016	
Pinellas County	Lealman Central Area Drainage Improvements (2027) Preliminary engineering for master drainage plan.	\$150,000	Completed	CDBG	1/18/2023	10/26/2016	
Pinellas County	Government Facilities Remodel & Renovation (1633)	12,275,500	Completed	Penny for Pinellas	1/18/2023	10/26/2016	
Pinellas County	Community Buildings Emergency Shelter Project (1843)	6,950,000	Completed	Penny for Pinellas	1/18/2023	10/26/2016	
Pinellas County	Allens Creek Watershed Management Plan	\$575,000	Complete	Surface Water Assessement Fee	1/18/2023	10/27/2016	Added by Rahim Harji
Pinellas County	McKay Creek Watershed Management Plan	\$730,000	Complete	Surface Water Assessment Fee	1/18/2023	10/27/2016	Added by Rahim Harji
Pinellas County	Joe's Creek Watershed Management Plan (WMP)	\$500,000	Complete	Surface Water Utility Fund and SWFWMD CFI Grant	1/18/2023	10/1/2019	Rhonda Bowman
Pinellas County	118th Avenue Expressway (1618). Built east-west evacuation route parallel to Ulmerton Rd.	\$55,750,000	Complete	Penny for Pinellas	1/18/2023	11/8/2017	Added by Gina Harvey
Pinellas County	Antilles/Oakhurst Drainage Improvements (1820). Improvements to alleviate street flooding.	\$3,160,000	Complete	Penny for Pinellas	1/18/2023	10/27/2017	Added by David Talhouk

Pinellas County  
Local Mitigation Strategy 2022-2023  
Appendix D, Table D-2: Accomplishments

Municipality / Entity	Project	Est. Cost	Status	Funding	Date Last Reviewed	Date Last Updated	Updated By
Pinellas County Public Works	Mast Arm Hardening: Installation and/or upgrade of Mast Arms at 16 locations throughout the county located on hurricane evacuation routes.This will help improve the safe, efficient flow of traffic countywide in the event of an emergency event or hurricane. During Hurricane Irma in September 2017, traffic signals hung by span wire fell or became damaged from storm force winds. The fall of span wire could result in traffic signals becoming inoperable, potentially blocking access on the roadway and creating what could be a dangerous situation; even more so when located on an evacuation route that is used by hundreds of thousands of citizens seeking safety. Mast Arm signals in place of span wire at these evacuation route locations will ensure that these evacuation routes remain open and emergency personnel have access to the main roadways post-storm.	\$6,000,000	In Design	HMGP	1/18/2023		
PC Public Works	Pinellas Trail - 54th Ave Drainage	\$3,297,000	FY21 Complete	Penny for Pinellas, SWFWMD CFI Grant	1/18/2023	12/30/2021	Anita Wang
PC Public Works	McKay Creek Water Quality Improvement Project	\$1,097,000	FY21 Complete	Penny for Pinellas, SWFMWD CFI Grant, FDOT Grant	1/18/2023	12/30/2021	Anita Wang
PC Public Works	22nd Avenue S Drainage Improvements from 51st Street to 55th Street (002508A): Drainage system modification to eliminate street flooding on 22nd Avenue South between 51st Street and 55th Street South. / 1	\$1,750,000	Construction Completed FY18-FY19	Penny for Pinellas	1/18/2023		Rhonda Bowman
PC Public Works	Highland Avenue Pipe Replacement from Jeffords Street to Pine Street (002308A): Pipe replacement to address flooding / 1	\$2,273,500	Construction Completed FY19-FY20	Penny for Pinellas	1/18/2023		Rhonda Bowman
PC Public Works	Bee Branch Drainage Improvements Phase I (002121A): Bank stabilization, erosion control, and drainage structure replacement. / 3	\$1,135,600	Construction Completed	Penny for Pinellas; SWFWMD CFI Grant	1/18/2023		Rhonda Bowman
PC Public Works	Georgia Avenue Drainage from Seaford Avenue to Disston Street (002116A): Drainage improvement to alleviate street, yard, and structural flooding. / 1	\$833,000	Construction Completed FY19-FY20	Penny for Pinellas	1/18/2023		Rhonda Bowman
PC Public Works	Pinellas County Stormwater Facilities (Countywide) - Stormwater Infrastructure Program (000207A): Annually funded program to rehabilitate stormwater infrastructure to address flooding. / 1, 3	\$2,492,000	Program ends FY19. New program begins FY20	Penny for Pinellas	1/18/2023		Rhonda Bowman
PC Public Works	Drainage Pond Compliance Program (1629) - Drainage Pond Compliance Program (000969A) Annually funded program to improve existing stormwater management facilities. / 1, 3	\$299,500	Program ends FY19.	Penny for Pinellas, Possible SWFWMD CFI Grant	1/18/2023		Rhonda Bowman
PC Public Works	Curlew Creek and Smith Bayou Watershed Mangement Plan	\$ 850,000	Complete	Surface Water Utility Fund, SWFWMD	1/18/2023	11/30/2020	Rhonda Bowman
PC Public Works	Lakeshore Estates Phase I	\$ 3,038,000	Complete	Penny for Pinellas	1/18/2023	11/30/2020	Rhonda Bowman



Pinellas County  
Local Mitigation Strategy 2022-2023  
Appendix D, Table D-2: Accomplishments

Municipality / Entity	Project	Est. Cost	Status	Funding	Date Last Reviewed	Date Last Updated	Updated By
PC Public Works	Replace Radio Shelters - Replace seven (7) existing radio shelters housing the infrastructure of Pinellas County's 800 MHz Intergovernmental Public Safety Radio System serving over 10,000 responders to meet national standards and practices as defined by the Association of Public Safety Communication Officials (APCO) and local building codes. Shelter structures must be constructed to eliminate the threat of flooding with elevated platforms and drainage, while protecting against hurricane force winds. The hardening of sites is one of the most critical elements in the construction of a reliable communications system to prevent radio communication failure and better serve public safety responders and the public during routine incidents and major disasters. Public safety grade shelters are imperative to ensure the ability of public safety users to communicate at all times.	\$15,130,000	COMPLETED 10/31/2022	Penny for Pinellas	1/18/2023	10/4/2022	Donna Beim
Pinellas Park	Basin 4A Drainage Improvement - Culvert replacements and ditch regrading within the Channel 4A area from 58th Street to a point upstream of the 53rd Street Culvert. This would be done after the Pinellas Poark Water Management District upgrades Channel 41 from 58th Street to a proposed pond south of 62nd Avenue.	\$487,250	Completed in 2004	Local	1/18/2023	10/24/2017	Emergency Management / Community Planning
Pinellas Park	Park Blvd Drainage Improvement Phase I, Basin B - Improve drainage along Park Boulevard corridor between US 19 and 66th Street. Improve each drainage network in the area as recommended by the 1998 Park Boulevard Master Drainage Plan. Basin B is located between the CSX Railroad line and 49th Street.	\$5,364,000	Completed in 2006	Local, State, and Federal	1/18/2023	10/24/2017	Emergency Management / Community Planning
Pinellas Park	Park Blvd Drainage Improvement Phase II, Basin A - Improve drainage along Park Boulevard corridor between US 19 and 66th Street. Improve each drainage network in the area as recommended by the 1998 Park Boulevard Master Drainage Plan. Basin A is located between 65th Way to the CSX Railroad line.	\$10,000,000	Completed in 2008	Local, State, and Federal	1/18/2023	10/24/2017	Emergency Management / Community Planning
Pinellas Park	Park Blvd Drainage Improvement Phase III, Basin C - Improve drainage along Park Boulevard corridor between US 19 and 66th Street. Improve each drainage network in the area as recommended by the 1998 Park Boulevard Master Drainage Plan. Basin C is located between US 19 and east of 49th Street.	\$14,530,000	The drainage project was completed in FY10/11	Local, County, State, and Federal	1/18/2023	10/24/2017	Emergency Management / Community Planning
Pinellas Park	Helen Howarth Park Drainage Basin Evaluation - Provide survey, conceptual-level modeling, data collection, and preparation of report to recommend possible improvements in drainage basin.	\$32,500	Study completed in 2005	Local	1/18/2023	10/24/2017	Emergency Management / Community Planning
Pinellas Park	Homeland Drainage Improvement District Drainage Study - Determine improvement area through completion of a drainage study, including surveying, modeling and laternative evaluation.	\$55,000	Study completed in 2005	Local	1/18/2023	10/24/2017	Emergency Management / Community Planning
Pinellas Park	Stormwater Rehabilitation Program - Install and line galvanized culvert pipe through the City.	\$500,000	This is an annual ongoing project.	Local	1/18/2023	10/24/2017	Emergency Management / Community Planning
Pinellas Park	NFIP Map Update - This project involved an outreach to property owners of potential changes and included use of websites, a TV show, public service announcements through the Government Affairs Department, and displays at the Library, City Hall, and at Park Station. The NFIP anticipates the maps becoming effective in September 2009.		Completed. The maps became effective August 18, 2009.	Local	1/18/2023	10/24/2017	Emergency Management / Community Planning

**Pinellas County**  
**Local Mitigation Strategy 2022-2023**  
**Appendix D, Table D-2: Accomplishments**

Municipality / Entity	Project	Est. Cost	Status	Funding	Date Last Reviewed	Date Last Updated	Updated By
Pinellas Park	Home Disaster Mitigation Handbook - This document is currently being produced. It is an easy to read and understand booklet that explains the basic means to protect homes and can help homeowner's mitigate from those storms events common to central Florida. This document will be produced in a CD-ROM format for other communities to replicate.	\$50,000	Completed	State	1/18/2023	10/24/2017	Emergency Management / Community Planning
Pinellas Park	Purchase of Land for Drainage Retention. The City has entered into a contract to purchase property near Park Blvd and 40th St. N. The property will be used for storm water retention at Park Blvd and 43rd St. N.	\$796,000	Completed	Local	1/18/2023	10/24/2017	Emergency Management / Community Planning
Pinellas Park	94th Avenue N. widening: This is a roadway project with a drainage component. A collector road is to be widened to a two lane divided facility between 58th St. N. and 49th St. N. It has been designed to address local drainage issues and those of the surrounding neighborhoods. Completion is anticipated in FY 03/04.	\$2,200,000	Completed	Local	1/18/2023	10/24/2017	Emergency Management / Community Planning
Pinellas Park	60th St. N. ditch mitigation project is to install a major box culvert system along 60th St. N. between 70th Avenue N. and the Pinellas Park Water Management District Channel 4. This project will promote a greater flow of storm water from the secondary drainage system into the primary drainage facility and reduce localized street and structure flooding and eliminate a dangerous open ditch situation that currently exists.	\$1,067,000	Completed	Local	1/18/2023	10/24/2017	Emergency Management / Community Planning
Pinellas Park	Park Blvd/66th St. N. intersection improvement. Florida Department of Transportation has recently completed this project which included a drainage component to address flooding up to a 25 year storm event.	\$1,600,000	Completed	State and Federal	1/18/2023	10/24/2017	Emergency Management / Community Planning
Pinellas Park	Homeland Drainage Improvement District Drainage Study - Determine improvement area through completion of a drainage study, including surveying, modeling and alternative evaluation.	\$3,750,000	Completed 2012	Local	1/18/2023	10/24/2017	Emergency Management / Community Planning
Pinellas Park	Annual Sanitary Sewer Rehabilitation & Relining - This program is an ongoing program that reduces the seepage of sewerage into the soils and water table as well as prohibit the infiltration of stormwater into the lines. This latter activity reduces the likilyhood of line surcharge, line failure, and capacity at the treatment plant.	\$550,000 annually	Annual Project Ongoing	Local	1/18/2023	10/24/2017	Emergency Management / Community Planning
Pinellas Park	Longhill Drive Drainage Improvements - Project included the culverting of 1,200 LF of open ditch to eliminate erosion and discharge into yards and structures. Project decreased flooding but also included water quality imiprovements prior to discharge into Cross Bayou Canal.	\$1,176,680	Completed FY13-14	Local and SWFWMD Grant	1/18/2023	10/24/2017	Emergency Management / Community Planning
Pinellas Park	Emergency Generator Installation LS 27 to maintain service	\$70,000	Completed FY13-14	Local	1/18/2023	10/24/2017	Emergency Management / Community Planning
Pinellas Park	Emergency Generator Installation LS1 to maintain service	\$115,000	Completed FY13-14	Local	1/18/2023	10/24/2017	Emergency Management / Community Planning
Pinellas Park	(Phase 1) Garnett & North Disston Subdivisions - 40 acre +/- tract situated between 82nd Avenue 86th Avenue & 46th Street, 49th Street-Install a stormwater collection and conveyance system in a subdivision originally developed in the 1960's and '70's. This would eliminate issues of localized flooding and dangerous stormwater inlets.	\$4,700,000	Phase 1 completed 2017. Phase 2- FY 2021-22	SWFWMD Grant, FDOT Grant, FDEP Grant, TIF, Pinellas Park Water & Sewer Fund, IST.	1/18/2023	11/28/2018	Boisvert / Petersen

**Pinellas County  
Local Mitigation Strategy 2022-2023  
Appendix D, Table D-2: Accomplishments**

Municipality / Entity	Project	Est. Cost	Status	Funding	Date Last Reviewed	Date Last Updated	Updated By
Pinellas Park	Design and construct drainage features and sidewalks on 90th Ave to provide better drainage to Jan Cory Subdivision	\$170,069	Completed 2017	IST, Utility Fee	1/18/2023	10/24/2017	Emergency Management / Community Planning
Pinellas Park	98th Avenue Pond Improvements Improvement of wet pond to increase drainage capability for several single family subdivisions and a 60 acre park	\$95,000	Completed FY 2016-2017.	FDEP Grant and Pinellas Park Utility fees	1/18/2023	11/27/2018	Boisvert / Petersen
Pinellas Park	Technical Services Pond Improvements Restoration of a 9,095 s.f. dry pond, to improve environmental conditions (pond now wet) and increase drainage capability of an area serving mobile home parks and industrial uses	\$30,445	Completed FY 2016-2017	FDEP Grant and Pinellas Park Utility fees	1/18/2023	11/27/2018	Boisvert / Petersen
Pinellas Park	64th Way and 70th Avenue Pond Improvements include maintenance on a dry pond to bring it back to its original site plan specifications; replacing a failed underdrain system.	\$54,200	In progress. Completion FY 2018-2019.	Stormwater Fees	1/18/2023	11/27/2018	Boisvert / Petersen
Pinellas Park	Pinebook Estates Unit 4 and Unit 5 Pond Improvements include dredging and maintenance on a wet pond to bring it back to the original site plan specifications.	\$620,000	In progress. Completion FY 2018-2019.	City general fund and FDEP grant (received)	1/18/2023	11/27/2018	Boisvert / Petersen
Pinellas Park	England Brothers Park Drainage and Water Quality Improvements to increase drainage capability and water quality for a 42.5 acre drainage area that flows through Channel One into Cross Bayou.	\$768,125	Completed FY 2017-2018	SWFWMD Grant and Pinellas Park Utility Fees	1/18/2023	11/27/2018	Boisvert / Petersen
Pinellas Park	Generator for Public Works Operations Center (PWOC). This building is hardened for a Category 3 storm and is the central location for all storm and stormwater equipment and personnel that are activated before, during and after the storm. The generator is necessary to ensure protection from flooding by providing continuity of operations.	\$225,000	Completed FY 2017-2018	Local funding, HMGP.	1/18/2023	11/27/2018	Boisvert / Petersen
Pinellas Park	Replace Generator at Technical Services Building - Emergency Generator Installation to Maintain Service / 4	\$225,000	Completed FY 18/19	Local coffers	1/18/2023	1/10/2018	Suzanne Boisvert
Pinellas Park	Boardwalk and Restoration of Wetlands - Performing Arts Center/England Brothers Park - Design for boardwalk and restoration of wetlands to improve drainage and natural functions of floodplain and create public passive recreation area adjacent to Performing Arts Center and England Brothers Park. Design work / 1	\$100,000	Completed FY 18/19	CRA/TIF/City	1/18/2023	1/10/2018	Suzanne Boisvert
Pinellas Park / City of Pinellas Park Public Works Department	Pond Improvements: 58th Street & 78th AvenuePerform maintenance on a dry pond and bring it back to the original site plan specifications and replace a failed underdrain system.	\$48,825	Completed March 6, 2020	Infrastructure Sales Tax	1/18/2023	9/29/2020	Aaron Petersen
Pinellas Park / City of Pinellas Park Public Works Department	Pond Improvements: 64th Way & 102nd AvenuePerform maintenance on a wet pond and bring it back to the original site plan specifications and dredge.	\$134,075	Completed January 3, 2020	Infrastructure Sales Tax	1/18/2023	9/29/2020	Aaron Petersen
Pinellas Park / City of Pinellas Park Public Works Department	Pond Improvements: 46th Street & 76th Avenue.Perform maintenance on a wet pond and bring it back to the original site plan specifications and dredge.	\$100,000	Project completed.	Infrastructure Sales Tax	1/18/2023	11/23/2021	Suzanne Boisvert
Pinellas Park / City of Pinellas Park Public Works Department	Fire Station 35 Fuel Tank Replacement - Convault Tank Installation for Emergency Generator to Maintain Service / 4	\$35,000	Project Completed September 2021	Infrastructure Sales Tax	1/18/2023	11/23/2021	Suzanne Boisvert



Pinellas County  
Local Mitigation Strategy 2022-2023  
Appendix D, Table D-2: Accomplishments

Municipality / Entity	Project	Est. Cost	Status	Funding	Date Last Reviewed	Date Last Updated	Updated By
Pinellas Park/Fire Department	Fire Station 36 (Mainlands/Gateway) - Construction of new 3-bay fire station to serve the Mainlands/Gateway at 4050 80th Avenue. /4	\$5,000,000	Project completed May 2022	IST/Penny bond funds/Pinellas County Fire District	1/18/2023	9/5/2022	Suzanne Boisvert
Redington Beach	Improvement of storm drainage to have the remainder of the Town's storm sewer system upgraded and add on to serve growth in the community.	\$5,000,000	Completed 2009	SWFWMD/Local	1/18/2023	8/19/2016	Adriana Nieves
Redington Beach	Flood mitigation of town streets and roads, milling & resurfacing	\$2,000,000	Completed in 2012	Local	1/18/2023	8/19/2016	Adriana Nieves
Redington Beach	Replace intracoastal causeway north side seawall	\$175,000	Completed in 2015	Local	1/18/2023	8/19/2016	Adriana Nieves
Redington Beach / Engineering	Underground Utilities - Place underground utilities along the east side of Gulf Boulevard from 155th Ave to 164th Ave. Estimated completion time: more than 12 months. / 2	\$1,500,000	Completed	Funded by Pinellas County; Penny for Pinellas	1/18/2023	12/19/2022	Adriana Nieves
Redington Shores	Elevated Town Hall / EOC Building. Constructed on fill to elevation 12.0 NGVD. Zone AE.	\$600,000	Complete 2001	Local	1/18/2023	8/30/2016	Steve Andrews
Redington Shores	Storm water retrofit project for areas east of Gulf Blvd. Water quality improvement by filtering street rainfall run-off.	\$3,100,000	Complete 2010	Local and State	1/18/2023	8/30/2016	Steve Andrews
Redington Shores	TV / Media Upgrades :CATV broadcasting equipment emergency replacement for public education & awareness to provide up to date info re:Evacuation & shelters, flood mitigation programs & projects prior to emergencies.	\$35,000	Complete 2013	Local	1/18/2023	8/30/2016	Steve Andrews
Redington Shores	Kayak Ramp : ShorelineProtection to provide erosion control of park open shore due to 4 foot change in grade within 30 feet of top of bank ACOE and FDEP approved 5 foot wide concrete ramp and planting of Red Mangroves in unstabilized areas.	\$8,500	Complete 2013	Local	1/18/2023	8/30/2016	Steve Andrews
Redington Shores	T.S. Debby : Emergency response to Town Infrastructure due to wind, erosion, and flooding Re; Debris Removal, Sewer, Street, Parks and Roof Repairs.	\$12,625	Complete 2013	Local and State	1/18/2023	8/30/2016	Steve Andrews
Redington Shores	Town Hall / EOC Impact Shutters revised to impact windows	\$15,000	Complete	Local	1/18/2023	12/17/2018	Steve Andrews
Redington Shores	LED Warning Sign - The goal of the LED sign is to notify visitors and residents of important messages before, during and after storm. This includes evacuation orders, warnings, hazards, etc.	\$40,000	Complete	Local/Federal	1/18/2023	5/8/2018	Steve Andrews
Redington Shores / Emergency Management	Impact Windows for Town Hall EOC (Critical Facility) - Town Hall /EOC updates to existing for expedited response to emergency by reducing labor commitment and with revised Wind & Impact loads per current codes, located at 17425 Gulf Blvd. Estimated completion time: less than 12 months.	\$15,000	Complete	Local	1/18/2023	5/8/2018	Steve Andrews
Redington Shores / Public Works	Stormwater Backflow Valve - Minimize flodding in the town's lowest lying areas. These areas flood during major rain events and high tide	\$24,000	Complete	Local	1/18/2023	10/29/2020	Cheri Zindars

Pinellas County  
Local Mitigation Strategy 2022-2023  
Appendix D, Table D-2: Accomplishments

Municipality / Entity	Project	Est. Cost	Status	Funding	Date Last Reviewed	Date Last Updated	Updated By
Redington Shores / Emergency Management	TV - Media Upgrades - CATV broadcasting equipment emergency replacement for public education & awareness to provide up to date info re: evacuation & shelters, flood mitigation programs & projects prior to emergencies.	\$35,000	Complete	Local	1/18/2023	10/29/2020	Cheri Zindars
Redington Shores / Public Works	Rebuild stormwater drainage system in the last three (3) phases. Two phases were completed early 2006.	\$3,100,000	Complete	SWFWMD Grant & Town CIP	1/18/2023	10/29/2020	Steve Andrews
Safety Harbor	Public Works dewatering pump replacement	\$18,000	Complete	Local	1/18/2023	10/21/2016	Michael Schoderbock
Safety Harbor	Harden Safety Harbor EOC – Impact resistant windows and doors.	\$15,000	Complete	Federal, State, Local	1/18/2023	10/21/2016	Michael Schoderbock
Safety Harbor	Harden Fire Station #52 – Impact resistant windows, doors, garage doors.	\$110,000	Complete	Federal, State, Local	1/18/2023	10/21/2016	Michael Schoderbock
Safety Harbor	Harden Fire Station #53 and upgrade EOC	\$250,000	Complete	Local	1/18/2023	10/21/2016	Michael Schoderbock
Safety Harbor	East Gate Drainage Improvements	\$1,442,811	Complete	Local and State	1/18/2023	10/21/2016	Michael Schoderbock
Safety Harbor	South Green Springs - Improvements to minimize street flooding.	\$1,500,000	Complete	Local	1/18/2023	10/21/2016	Michael Schoderbock
Safety Harbor	11th Ave. S. Brick Street & Drainage Improvements	\$701,339	Complete	Local and State	1/18/2023	10/21/2016	Michael Schoderbock
Safety Harbor	Street and Yard Flooding - 2nd Ave. N.	\$1,300,000	Complete	Local	1/18/2023	10/21/2016	Michael Schoderbock
Safety Harbor	Rigsby Center/Hurricane Shutters Installed	\$1,438	Complete	Local	1/18/2023	10/21/2016	Michael Schoderbock
Safety Harbor	Parks & Bldg. Maintenance/Hurricane Shuitters and Wind rated Bay/Garage doors installed.	\$4,021	Complete	Local	1/18/2023	10/21/2016	Michael Schoderbock
Safety Harbor	Street Flooding Improvements - Bailey Street	\$430,000	Complete	Local	1/18/2023	10/21/2016	Michael Schoderbock
Safety Harbor	Bishop Creek Erosion and Storm Water Control, Harbor Woods	\$906,857	Complete	Local and State	1/18/2023	10/21/2016	Michael Schoderbock
Safety Harbor	Fire Station #53, Replace Ladder Truck and special Equipment	\$510,000	Complete	Local	1/18/2023	10/21/2016	Michael Schoderbock
Safety Harbor	Bishop Creek Erosion and Storm Water Control, Rainbow Farms Ph 1.	\$1,300,000	Complete	Local and State	1/18/2023	10/21/2016	Michael Schoderbock
Safety Harbor	Library/Hurricane Shutters for existing building	\$7,058	Complete	Local	1/18/2023	10/21/2016	Michael Schoderbock
Safety Harbor	Daisy Douglas Park/Wind rated garage doors installed.	\$1,464	Complete	Local	1/18/2023	10/21/2016	Michael Schoderbock
Safety Harbor	Fire Station #53/hurricane shutters installed	\$1,398	Complete	Local	1/18/2023	10/21/2016	Michael Schoderbock
Safety Harbor	Public Works Office Facility/Hurricane shutters installed	\$1,538	Complete	Local	1/18/2023	10/21/2016	Michael Schoderbock
Safety Harbor	North City Park/Wind rated garage doors installed	\$1,392	Complete	Local	1/18/2023	10/21/2016	Michael Schoderbock
Safety Harbor	Master Lift Station: new generator and pumps	\$70,000	Complete	Local	1/18/2023	10/21/2016	Michael Schoderbock
Safety Harbor	Fire Station #52: New generator	\$75,000	Complete	Local	1/18/2023	10/21/2016	Michael Schoderbock
Safety Harbor	Fire Station #53: New generator	\$60,000	Complete	Local	1/18/2023	10/21/2016	Michael Schoderbock
Safety Harbor	Fire Station #53: Building to house new generator	\$50,000	Complete	Local	1/18/2023	10/21/2016	Michael Schoderbock

Pinellas County  
Local Mitigation Strategy 2022-2023  
Appendix D, Table D-2: Accomplishments

Municipality / Entity	Project	Est. Cost	Status	Funding	Date Last Reviewed	Date Last Updated	Updated By
Safety Harbor	Public Works replacement of a generator	\$40,000	Complete	Local	1/18/2023	10/21/2016	Michael Schoderbock
Safety Harbor	South Bayshore Drainage/Water Quality Improvements	\$2,289,313	Completed	Federal, State, Local	1/18/2023	10/21/2016	Michael Schoderbock
Safety Harbor	Cypress Trace Lift Station	\$60,000	Completed	Local	1/18/2023	10/21/2016	Michael Schoderbock
Safety Harbor	Briar Creek Lift Station	\$70,000	Completed	Local	1/18/2023	10/21/2016	Michael Schoderbock
Safety Harbor	Amber Glades Lift Station Repair	\$90,000	Completed	Local	1/18/2023	10/21/2016	Michael Schoderbock
Safety Harbor	Highlands Lift Station	\$60,000	Completed	Local	1/18/2023	12/18/2018	Brandon Henry
Safety Harbor	South Bayshore Lift Station and Generator	\$125,000	Completed	Local	1/18/2023	12/18/2018	Brandon Henry
Safety Harbor	North Bayshore Lift Station	\$60,000	Completed	Local	1/18/2023	11/30/2020	Brandon Henry
Safety Harbor	Cypress Hollow Lift Station Repair	\$60,000	Completed	Local	1/18/2023	11/30/2020	Brandon Henry
Safety Harbor	Baytown West Lift Station	\$60,000	Completed	Local	1/18/2023	11/30/2021	Bill Blair
Safety Harbor	Coventry E. Cul de Sac	\$65,000	Completed	Local	1/18/2023	11/30/2021	Bill Blair
Seminole	Construct emergency operations center and public works garage. Estimated completion time: more than 12 months.	\$6,500,000	Complete 2013	Local	1/18/2023		
South Pasadena	Storm shutters on public works building	\$16,500	Complete	HMGP	1/18/2023		
South Pasadena	Generator switch at joint EOC	\$15,000	Complete	Local	1/18/2023		
South Pasadena	Hardened fire station and construct addition	\$43,000	Complete	HMGP \$5,000/ Local \$38,000	1/18/2023		
South Pasadena	Purchased 80KW generator for public works building	\$39,000	Complete	Local	1/18/2023		
South Pasadena	City Hall Window Protection - Install protective window film on all windows in City Hall. Estimated completion time: less than 12 months. / 2	\$50,000	Complete	Local	1/18/2023		David Mixson
South Pasadena	Finish Mast Arms on Evac Route - Install mast arms at 3 remaining locations on Pasadena Avenue. Estimated completion time: less than 12 months. / 2	\$1,500,000	Complete	Local	1/18/2023		David Mixson
South Pasadena	Installed two (2) UV lights in supply duct for Fire Station 20 HVAC System	\$1,500	Complete	CARES	1/18/2023		David Mixson
South Pasadena	Installed three (3) portable Smart Air Purifier units in Fire Sation 20	\$1,725	Complete	CARES	1/18/2023		David Mixson
South Pasadena	Installed three (3) portable Smart Air Purifier units in City Hall	\$1,725	Complete	CARES	1/18/2023		David Mixson
South Pasadena	Installed two (2) portable Smart Air Purifier units in Public Works Annex	\$1,150	Complete	CARES	1/18/2023		David Mixson
South Pasadena	Installed two (2) portable Smart Air Purifier units in Community Improvement Annex	\$1,150	Complete	CARES	1/18/2023		David Mixson
South Pasadena	Purchase of 2022 Freightliner M2 Wheeled Coach Transport Capable FD Rescue Unit	\$224,917	Complete	EMS Authority	1/18/2023	12/16/2022	David Mixson
St. Petersburg	Mitigated 3 waterfront properties on Bayou Grande Blvd. NE to prevent damage from flooding.	\$289,237	Complete	Federal and Local	1/18/2023	9/26/2017	Noah Taylor
St. Petersburg	1st St. N. storm water project	\$5,788,000	Complete	Local	1/18/2023	9/26/2017	Noah Taylor
St. Petersburg	Highland St. storm water project.	\$844,000	Complete	Local	1/18/2023	9/26/2017	Noah Taylor
St. Petersburg	Nebraska Ave. NE storm water project.	\$200,000	Complete	Local	1/18/2023	9/26/2017	Noah Taylor
St. Petersburg	3rd St. Bayboro storm water project.	\$3,668,000	Complete	Local	1/18/2023	9/26/2017	Noah Taylor
St. Petersburg	4th St. S. Bayboro storm water project.	\$2,369,000	Complete	Local	1/18/2023	9/26/2017	Noah Taylor
St. Petersburg	Floral Lake storm water project	\$308,000	Complete	Local	1/18/2023	9/26/2017	Noah Taylor
St. Petersburg	Mirror Lake alum injection system.	\$553,000	Complete	Local	1/18/2023	9/26/2017	Noah Taylor
St. Petersburg	Booker Creek Maintenance at Tropicana Dome.	\$203,000	Complete	Local	1/18/2023	9/26/2017	Noah Taylor
St. Petersburg	8th St. drain storm water project.	\$2,558,000	Complete	Local	1/18/2023	9/26/2017	Noah Taylor
St. Petersburg	67th St. drain storm water project.	\$681,000	Complete	Local	1/18/2023	9/26/2017	Noah Taylor
St. Petersburg	Lake Winston storm water project.	\$2,261,000	Complete	Local	1/18/2023	9/26/2017	Noah Taylor

Pinellas County  
Local Mitigation Strategy 2022-2023  
Appendix D, Table D-2: Accomplishments

Municipality / Entity	Project	Est. Cost	Status	Funding	Date Last Reviewed	Date Last Updated	Updated By
St. Petersburg	31st St. S storm water project.	\$576,000	Complete	Local	1/18/2023	9/26/2017	Noah Taylor
St. Petersburg	Tinney Creek rehab. project.	\$194,000	Complete	Local	1/18/2023	9/26/2017	Noah Taylor
St. Petersburg	Ponds Ditch rehab. project.	\$30,000	Complete	Local	1/18/2023	9/26/2017	Noah Taylor
St. Petersburg	Clam Bayou retrofit project	\$286,000	Complete	Local	1/18/2023	9/26/2017	Noah Taylor
St. Petersburg	Ditch piping project - 4 locations throughout the city.	\$3,578,000	Complete	Local	1/18/2023	9/26/2017	Noah Taylor
St. Petersburg	Bayou Grande Blvd. NE project.	\$398,000	Complete	Local	1/18/2023	9/26/2017	Noah Taylor
St. Petersburg	Roser Park Creek project.	\$1,000,000	Complete	Local	1/18/2023	9/26/2017	Noah Taylor
St. Petersburg	King St. N. drainage improvements	\$2,966,000	Complete	Local	1/18/2023	9/26/2017	Noah Taylor
St. Petersburg	Oak St. NE drainage improvements	\$344,000	Complete	Local	1/18/2023	9/26/2017	Noah Taylor
St. Petersburg	Riviera Bay & Snell Isle Stormwater Vaults	\$1,400,000	Complete	Penney for Pinellas/Local	1/18/2023	9/26/2017	Noah Taylor
St. Petersburg	MLK Street N. Part 2 Storm Drainage Improvements	\$5,958,000	Complete	SWFWMD/Local	1/18/2023	9/26/2017	Noah Taylor
St. Petersburg	Golf Creek, 13th A/N & Vicinity Stormwater Improvements	\$1,600,000	Complete	SWFWMD/Local	1/18/2023	9/26/2017	Noah Taylor
St. Petersburg	Jungle Lake Outfall Storm Drainage Improvements	\$2,980,000	Complete	SWFWMD/Local	1/18/2023	9/26/2017	Noah Taylor
St. Petersburg	Jungle Lake Northeast Basin Storm drainage Improvements	\$3,557,000	Complete	SWFWMD/Local	1/18/2023	9/26/2017	Noah Taylor
St. Petersburg	94th Ave. at Tinney Creek Storm Drainage Improvements	\$1,500.00	Complete	Penney for Pinellas/SWFWMD/Local	1/18/2023	9/26/2017	Noah Taylor
St. Petersburg	Fire Station Window and Door Storm Protection. This project will retrofit nine fire stations to protect against storm impacts by providing window protection and replacing vulnerable overhead doors. Downtown Master Fire Station, 455 8th St. S.; Palmetto Park Station #3, 3101 5th Ave. S.; North Shore Station #4, 2501 4th St. N.; Fossil Park Station #7, 975 9th St. N.; Lake Maggiore Station #8, 4701 Martin Luther King St. S.; Lake Pasadena Station #9, 475 66th St. N.; Ponce de Leon Station #10, 2800 30th Ave. N.; Lakewood Station #11, 5050 31st St. S.; Gateway Station #13, 11600 Roosevelt Blvd.	\$250,000	All projects completed using local funds except for Ponce de Leon Station #10. the work on that station is currently underway and is being funded by HMGP and a local share match.	HMGP/Local	1/18/2023	9/26/2017	Noah Taylor
St. Petersburg	Backflow Prevention Stormwater Vaults. Project design, permitting and construction of flood protection vaults for City repetitive loss neighborhood. 47 vaults are planned for installation.	\$2,855,000	Complete	PDM Program	1/18/2023	9/26/2017	Noah Taylor
St. Petersburg	Flood and Wind Retrofit of Municipal Buildings	\$310,000	Complete	Federal and Local	1/18/2023	9/26/2017	Noah Taylor
St. Petersburg	EOC. Design construct and equip a municipal Emergency Operations Center Facility	\$3,500,000	Complete	Penny for Pinellas/Local	1/18/2023	9/26/2017	Noah Taylor
St. Petersburg	94th Ave. at Tinney Creek Storm Drainage Improvements. Project will construct large conveyance piping to reduce street and property flooding.	\$1,500,000	Complete	Penny for Pinellas/Local	1/18/2023	9/26/2017	Noah Taylor
St. Petersburg	4th St & 14th Ave N to Crescent Lake Storm Drainage Improvements. Design and construct larger conveyance piping to reduce street flooding.	\$1,900,000	In Progress	Penny for Pinellas/Local	1/18/2023	9/26/2017	Noah Taylor
St. Petersburg	8th Ave. S. & 44th St. S. Storm Drainage Improvements. Project will construct large conveyance piping to reduce street and property flooding.	\$4,500,000	In Progress	Penny for Pinellas/Local	1/18/2023	9/26/2017	Noah Taylor
St. Pete Beach	SCADA System / Lift Stations (Purchase a SCADA system for 17 wastewater pump/lift stations.)	\$90,000	Completed	City funds	1/18/2023	11/1/2016	Chelsey Welden
St. Pete Beach	Generators for Lift Stations (Procure emergency generators and electrical equipment for lift stations #2 and #3.)	\$100,000	Completed	City funds	1/18/2023	11/1/2016	Chelsey Welden
St. Pete Beach	Egan Park Improvements: Water Quality Detention Basin/1	\$50,000	Complete	SWFWMD Grant	1/18/2023	10/3/2017	C.W. Porter
St. Pete Beach	GIS/ Computer Hardware and Software Enhancement: Develop work order system w/GIS enhancements./4	\$35,000	Complete	Local	1/18/2023	10/3/2017	C.W. Porter
St. Pete Beach	Repairs: Wastewater Inflow and Infiltration FY2016: Priority-based improvements to wastewater system infrastructure to help reduce the possibility of SSOs/4	\$500,000	Complete	Wastewater Fund	1/18/2023	10/3/2017	C.W. Porter
St. Pete Beach	Stormwater Improvements to Pass-a-Grille Way (Reconstruction Phase I)./1	\$843,525	Complete	Stormwater Fund	1/18/2023	10/3/2017	C.W. Porter
St. Pete Beach	Repairs: Wastewater Inflow and Infiltration FY2017: Priority-based improvements to wastewater system infrastructure to help reduce the possibility of SSOs./4	\$2,300,000	Complete	Wastewater Fund	1/18/2023	10/3/2017	C.W. Porter
St. Pete Beach	Wastewater Improvements to Pass-a-Grille Way (Reconstruction Phase I)./4	\$2,210,325	Complete	Wastewater Fund	1/18/2023	10/3/2017	C.W. Porter



Pinellas County  
Local Mitigation Strategy 2022-2023  
Appendix D, Table D-2: Accomplishments

Municipality / Entity	Project	Est. Cost	Status	Funding	Date Last Reviewed	Date Last Updated	Updated By
St. Pete Beach / Fire	Fire Department Dock - Infrastructure improvements to the City-owned area at 7701 Boca Ciega Dr to facilitate the operation of Fire Boat 22 (100% County-funded vessel). Improvements include a dock, boat lift, and all required electrical equipment.	\$35,000	Complete	Capital Projects Fund	1/18/2023	1/18/2023	Kelly Intzes
Tarpon Springs	Riverside and Hillside Drive Stormwater Improvements	\$67,000	Completed	Stormwater Utility	1/18/2023	12/15/2018	Heather Urwiller
Tarpon Springs	Pent Street/Grosse Avenue Flooding Abatement Project Flooding/Drainage Improvements	\$3,400,000	Construction Underway	Stormwater Utility & Approved SWFWMD CFI	1/18/2023	12/15/2018	R. Robertson
Tarpon Springs	Disston and Tarpon Ave Evac Route SW Improvements	\$428,000	Design Complete	Stormwater Utility	1/18/2023	12/15/2018	Heather Urwiller
Tarpon Springs	Kenneth Way Flooding/Drainage Improvements	\$91,000	Conceptual Design	Stormwater Utility	1/18/2023	12/15/2018	Heather Urwiller
Tarpon Springs	Center Street at Disston Ave Flooding/Drainage Improvements	\$573,000	Alternatives Analysis Underway	Stormwater Utility	1/18/2023	12/15/2018	Heather Urwiller
Tarpon Springs	Athens St. and Dodecenase Sponge Docks Flooding/Drainage Imp.	\$27,000	Phase 1 Construction Nearly Complete	Stormwater Utility	1/18/2023	12/15/2018	Anthony Mannello
Tarpon Springs	Palm Avenue Flooding/Drainage Improvements	\$728,000	Complete	Stormwater Utility & CFI Application Submitted	1/18/2023	12/15/2018	Anthony Mannello
Tarpon Springs	Highland Ave. & Vista Pl./Jasmine Ave. & Lime St.Flooding/Drainage Improvements	\$161,500	Permitting Complete, Pending Funding	Stormwater Utility & Approved SWFWMD CFI	1/18/2023	12/15/2018	Heather Urwiller
Tarpon Springs	Disston Ave between Spruce and Live Oak Flooding/Drainage Imp	\$581,000	Conceptual Design	Stormwater Utility	1/18/2023	12/15/2018	Heather Urwiller
Tarpon Springs	Fire Station #71 – Construct a new Fire Station to reach the community during an emergency for a more rapid response time	\$2,700,000	Completed	City of Tarpon Springs and Penny for Pinellas	1/18/2023	12/15/2018	Megan Araya
Tarpon Springs	Mango Street Roadway and Stormwater Improvements	\$917,000	Construction Underway	City of Tarpon Springs and Penny for Pinellas	1/18/2023	9/16/2021	R.Robertson
Tarpon Springs	Window replacement, roof replacement, pointing of the brick and waterproofing City Hall.	\$2,100,000	Completed	City of Tarpon Springs and Penny for Pinellas	1/18/2023	12/15/2018	Megan Araya
Tarpon Springs	Riverside/Hillside Drive Flooding Abatement	\$56,000	Completed	Stormwater Utility	1/18/2023	12/15/2018	Heather Urwiller
Tarpon Springs	Bath St./Shaddock Ave. Alley	\$9,870	Completed	Stormwater Utility	1/18/2023	12/15/2018	Heather Urwiller
Tarpon Springs	Stormwater Infrastructure (GIS) Assessment Project	\$200,000	Completed	Stormwater Utility & CFI Application Submitted	1/18/2023	12/15/2018	Heather Urwiller
Tarpon Springs	Purchase Johnson Street Sweeper for in-house removal of roadside sediment & debris that would otherwise get into our stormwater system. Estimated completion time: Ongoing. / 1,3	\$240,000	Purchased	Stormwater Tax Assessment	1/18/2023	12/15/2018	Heather Urwiller
Tarpon Springs	Purchase Aquatech VacCon for in-house removal of sediment & debris that cause blockages of our stormwater system. Estimated completion time: Ongoing. / 1,3	\$350,000	Purchased	Stormwater Tax Assessment	1/18/2023	12/15/2018	Heather Urwiller
Tarpon Springs	Purchase 15 new portable generators	\$459,000	Purchased	City of Tarpon Springs Utilities	1/18/2023	12/15/2018	R. Robertson
Tarpon Springs	Purchase Tennant Mini Street Sweeper for removal of sidewalk and roadside sediment, fertilizer & debris that would otherwise get into our bayou system.	\$16,000	Purchased	Stormwater Tax Assessment	1/18/2023	11/13/2018	Heather Urwiller
Tarpon Springs	Cedar Street Roadway/Infrastructure Upgrades	\$300,000	Complete	SW Utility and Penny for Pinellas	1/18/2023	9/21/2022	Bob Robertson
Treasure Island	Elevated three structures above the base floor elevation	\$100,000	Complete	Private	1/18/2023	10/31/2017	R.G. Bray, Jr.
Treasure Island	Demolished three structures and replaced with conforming structures.	\$1,500,000	Complete	Private	1/18/2023	10/31/2017	R.G. Bray, Jr.
Treasure Island	Demolished one structure in flood area.	\$800,000	Complete	Local and State	1/18/2023	10/31/2017	R.G. Bray, Jr.
Treasure Island	Applications pending to elevate two structures above the base floor elevation	\$210,000	Underway	Private and State	1/18/2023	10/31/2017	R.G. Bray, Jr.
Treasure Island	Drainage improvements in the Sunset Beach neighborhood to reduce flooding.	\$300,000	Complete	Local and State	1/18/2023	10/31/2017	R.G. Bray, Jr.
Treasure Island	Hardening of critical facilities - City Hall and Public works complex.	\$150,000	Received HMGP grant for this project in the amount of \$71,487.	HMGP/Local	1/18/2023	10/31/2017	R.G. Bray, Jr.
Treasure Island	Reconstruction of Treasure Island Causeway bascule bridges to replace bridges built in 1939. Causeway is designated evacuation route for 7,560 permanent and 8,000 seasonal residents with the original bridges and equipment subject to storm tide flooding due to low elevation.	\$50,000,000	Received federal grant for this project in the amount of \$50,000,000. Completed in 2007.	Federal	1/18/2023	10/31/2017	R.G. Bray, Jr.

Pinellas County  
Local Mitigation Strategy 2022-2023  
Appendix D, Table D-2: Accomplishments

Municipality / Entity	Project	Est. Cost	Status	Funding	Date Last Reviewed	Date Last Updated	Updated By
Treasure Island	Enhancement of beach area to reduce storm losses. Quarterly planting of sea oats by community volunteers to enhance dune system for a number of years. County provides sea oats free of charge. Nominal cost to City. Also, sand sharing program set up so that in the event of a storm, the City can relocate accreted sand to storm damaged areas of Treasure Island's beach (\$500,000 reserve fund set aside by City Commission for emergency beach repairs.)	Nominal to date. Reserve of \$500,000 established.	Compleat and on-going	Local and County (sea oats donation)	1/18/2023	10/31/2017	R.G. Bray, Jr.
Treasure Island	2013 Elevated 2 structures above BFE	\$459,000	Complete	Private	1/18/2023	10/31/2017	R.G. Bray, Jr.
Treasure Island	2013 Demolished one structure in flood area (no replacement)	\$10,000	Complete	Private	1/18/2023	10/31/2017	R.G. Bray, Jr.
Treasure Island	Permits issues to elevate one structure above the base floor elevation (to be completed in 2014)	\$1,430,000	Underway	Private	1/18/2023	10/31/2017	R.G. Bray, Jr.
Treasure Island	Demolition of 7 non-FEMA compliant structures (2015)	\$64,700	Complete	Private	1/18/2023	10/31/2017	R.G. Bray, Jr.
Treasure Island	Drainage improvements in the Sunset Beach neighborhood to reduce flooding. (One phase)	\$914,000	One Phase Complete	Local and State	1/18/2023	10/31/2017	R.G. Bray, Jr.
Treasure Island	Palms Bridge replacement	\$1,657,638	Complete	Local	1/18/2023	10/31/2017	R.G. Bray, Jr.
Treasure Island	Capri Bridge replacement	\$2,244,517	Complete	Local	1/18/2023	10/31/2017	R.G. Bray, Jr.
Treasure Island	Main Lift Station Refurbishment	\$429,176	Complete	Local	1/18/2023	10/31/2017	R.G. Bray, Jr.
Treasure Island	Lift Station #3 Refurbishment	\$244,339	Complete	Local	1/18/2023	10/31/2017	R.G. Bray, Jr.
Treasure Island	Emergency Generator	\$56,400	Complete	Penny for Pinellas, Local (Wastewater General Fund)	1/18/2023	10/31/2017	R.G. Bray, Jr.
Treasure Island	Harden / Refurbish Municipal Facilities (LS #6, LS #7, LS #8, LS #9)	\$1,093,240	Complete	Local (Wastewater General Fund)	1/18/2023	10/31/2017	R.G. Bray, Jr.
Treasure Island	Harden / Refurbish Municipal Facilities (LS #4)	\$756,289	Complete	Local (Wastewater General Fund)	1/18/2023	10/31/2017	R.G. Bray, Jr.
Treasure Island	Phase 6 Drainage improvements in the Sunset Beach neighborhood to reduce flooding.	\$1,300,000	Complete	Local and State	1/18/2023	11/19/2018	R.G. Bray, Jr.
Treasure Island	Lift Station #4 - Refurbishment - Elevation of Controls & Electrical Equipment in Lift Station #4 Estimated completion time: more than 12 months. / 4	\$823,300	Complete	Partially Funded by City	1/18/2023	1/10/2018	Mike Helfrich

Pinellas County  
Local Mitigation Strategy 2022-2023  
Appendix D, Table D-2: Accomplishments

Municipality / Entity	Project	Est. Cost	Status	Funding	Date Last Reviewed	Date Last Updated	Updated By
Treasure Island	GPS Inventory of Street Signs - Inventory all street and identification signs using GPS technology to facilitate replacement following a storm event. Estimated completion time: more than 12 months./ 4	\$50,000	Complete	CDBG; HMGP; HMGP Planning	1/18/2023	1/10/2018	Mike Helfrich
Treasure Island	Stormwater Interceptor project in Sunset Beach and rehabilitation of underdrain system at lots 2 and 3 improvement of stormwater discharge throughout the city / 4 - At lots 2 and 3 and nearby areas. 2016: Phase 4 & 5. 2017: Phase 6. 2018: Master Plan. 2019: Causeway Area. 2020: Sunshine Beach Area. 2021: Downtown Area.	\$3,105,000	Complete	Local/Partially funded by SWFWMD	1/18/2023	1/10/2018	Mike Helfrich
Treasure Island	Stormwater Master Plan	\$2,510,000	Master Plan Complete - Projects to be constructed in the future.	Capitalization Grants for Clean Water State Revolving Funds; HMGP; Nonpoint Source Implementation Grants; SWFWMD Grants, Local funds	1/18/2023	11/30/2021	Jamie Viveiros
Treasure Island	Lift Station Rehabilitation - Rehab and harden Lift Stations #1, #2, #5, #10 an #11. Modernize the faciities and equipment to address the current demands upon the system, extend the life of the facility, and harden the system to be resistant to flood and surge.	\$1,800,000	Complete	Local and State Funding	1/18/2023	11/30/2021	Jamie Viveiros
Treasure Island	Lift Station Vault Door Replacements	\$600,000	Complete	Capitalization Grants for Clean Water State Revolving Funds; FMAP; HMGP; Nonpoint Source Implementation Grants; Local	1/18/2023	11/30/2021	Jamie Viveiros
Treasure Island	Portable Generator for Pump Station #4	\$115,000	Complete	Local Funding	1/18/2023	11/30/2021	Jamie Viveiros
The Arc Tampa Bay	The Arc Tampa Bay Long Center Generator - Purchase and installation of a natural gas based 125 kw generator to support approximately 7000 sqaure feet, to support the critical health and safety needs of our residents during a hurricane.	\$142,000	Complete	Generator donated by Publix. Installation costs funded by The Arc Tampa Bay Foundation (a separate 501c3). Engineering performed by East-West. Total costs for installation, maintenance contracts and testing approximately \$100,000.	1/18/2023	9/27/2021	Carolyn Reginelli

## **TABLE A-1 COUNTYWIDE OUTREACH**



Pinellas County,  
Local Mitigation Strategy 2022-2023  
Appendix A, Table A-1, Pinellas County (County-wide) Outreach Matrix

Name of Event/Outreach	Description of Event / Outreach	Outreach Method	Target Audience	Target Message	Estimated Population Reached	Date Entered on this Table	Date Last Reviewed	Date Last Updated	Update Comments	Name of Last Reviewer
Cable Television Programming	PCC-TV	Pinellas County Cable TV Interviews	County-wide	Topics vary from Insurance issues, preparedness, securing property, mitigation opportunities	200,000	9/5/2014	1/18/2023	9/12/2022	No updates (PPI, ongoing)	Libby Boiling
County Speakers Bureau	Pinellas County Speakers Bureau (Bank Speakers: Volunteers and County/Municipal Employees)	Area-Specific Meeting (see list)	County-wide	All messages addressed during the year	400	9/5/2014	1/18/2023	9/12/2022	No updates (PPI, ongoing, program currently being implemented)	Mary Burrell
Community Connect	Electronic Emergency Information Newsletter	Newsletter	County-wide	All messages addressed during the year through regular communications	5,677	9/5/2014	1/18/2023	9/12/2022	Includes focused messaging to faith/community based organizations. (name updated since development of this document)	Mary Burrell
Alert Pinellas	Opt-In Alert System (Email, FB, Text). Automatically sent to Ready Pinellas app as an additional notification	Social Media/ Email	County-wide	Know your risk/ Emergency Communications/ Warning	52,162	9/5/2014	1/18/2023	9/12/2022	No updates (ongoing program, name updated since development of this document)	Mary Burrell
Pinellas County Flood Information Website	Web Pages include: Build Smart, Flood Elevation Certificate, Flood Information- FAQ, Floodplain Protection, Flood Mitigation, Flood Insurance, Flood Maps & Zones, Flood Warning System/Notifications/Safety, Flood Resources/ Contacts/Publications; Flood map service hub (includes multiple flood hazard map apps)	Website	County-wide	All key messages are addressed throughout the year.		10/31/2016	1/18/2023	12/21/2022	Content updated as needed and reviewed annually; links checked monthly	Lisa Foster
Pinellas County Program for Public Information (PPI)	Propram for Public Information: Flood related messages, target audiences, projects, and initiatives	Program	Unincorporated residents, includes some County-wide projects and initiatives	All key messages are addressed throughout the year, before, during and after flood or hurricane events		10/31/2016	1/18/2023	12/21/2022	Three Committee meetings per year, Content updated as needed and reviewed annually.	Lisa Foster
Hurricane Expo	County-sponsored in different county locations	Community Events	County-wide	Public Safety Information (ex. Turn Around Don't Drown; Know Your Flood Zone and Evacuation Zone; Make a plan; Build a kit	1000	8/25/2014	1/18/2023	9/12/2022	Participate and support municipal expos and events held annually	Mary Burrell
Pinellas County EM Website	Other Hazard Resources	Website	County-wide	All messages addressed during the year		9/5/2014	1/18/2023	9/12/2022	All-hazards topics, including flooding and storm surge	Mary Burrell
Pinellas County EM Website	Surviving the Storm	Website	County-wide	All messages addressed during the year		9/5/2014	1/18/2023	9/12/2022	EM department has multiple pages, which are identified as separate items on this table	Mary Burrell
Pinellas County EM Website	Hurricane Preparedness: Know Your Zone - look up evacuation levels, shelters, current evacuation information, by location	Website	County-wide	Know your risk; Prepare Ahead		9/5/2014	1/18/2023	9/12/2022	Evacuation zone updates annually. Lookup zones by address. <a href="http://kyz.pinellascounty.org/">http://kyz.pinellascounty.org/</a>	Mary Burrell

**Pinellas County,  
Local Mitigation Strategy 2022-2023  
Appendix A, Table A-1, Pinellas County (County-wide) Outreach Matrix**

Name of Event/Outreach	Description of Event / Outreach	Outreach Method	Target Audience	Target Message	Estimated Population Reached	Date Entered on this Table	Date Last Reviewed	Date Last Updated	Update Comments	Name of Last Reviewer
Pinellas County EM Website	Shelter Options	Website	County-wide	Know your risk, make a plan, stay informed, get involved		9/5/2014	1/18/2023	9/12/2022	Revised description: <a href="http://www.pinellascounty.org/emergency/shelteroptions.htm">http://www.pinellascounty.org/emergency/shelteroptions.htm</a>	Mary Burrell
Pinellas County EM Website	FEMA - Federal Emergency Management Agency	Website	County-wide	Insure your property for your hazard(s)		9/5/2014	1/18/2023	9/12/2022	Information on insurance with link to resources.	Mary Burrell
Pinellas County EM Website	Ready Pinellas Mobile Application	Website	County-wide	Make your Family/ Business Disaster Plan		9/5/2014	1/18/2023	9/12/2022	Information and resources to guide families and businesses to make a plan	Mary Burrell
Pinellas County EM Website	All Hazards Preparedness Guide	Website	County-wide	Know your risk, make a plan, stay informed, get involved: English, Spanish, Vietnamese versions		9/5/2014	1/18/2023	9/12/2022	Updated guide: <a href="http://www.pinellascounty.org/emergency/PDF/All_Hazard_Guide.pdf">http://www.pinellascounty.org/emergency/PDF/All_Hazard_Guide.pdf</a>	Mary Burrell
Pinellas County EM Website	Hurricane Video Library	Website	County-wide	Library includes short videos on how to look up zones, prepare your house, family and pets		9/5/2014	1/18/2023	9/12/2022	Updated: <a href="http://www.pinellascounty.org/emergency/hurricane_videos.html">http://www.pinellascounty.org/emergency/hurricane_videos.html</a>	Mary Burrell
Pinellas County EM Website	Hurricane Publications	Website/ Publications	County-wide	All messages are addressed		9/5/2014	1/18/2023	9/12/2022	Updated: <a href="http://www.pinellascounty.org/emergency/publications_links.html">http://www.pinellascounty.org/emergency/publications_links.html</a>	Mary Burrell
Pinellas County EM Website	Public Shelter Options - Host Homes	Website	County-wide	Prepare Ahead; Make your Family/ Business Disaster Plan		9/5/2014	1/18/2023	9/12/2022	No updates - Current: <a href="http://www.pinellascounty.org/emergency/hosthomes.htm">http://www.pinellascounty.org/emergency/hosthomes.htm</a>	Mary Burrell
Pinellas County EM Website	Pet Preparedness	Website	County-wide	Prepare Ahead; Make your Family/ Business Disaster Plan		9/5/2014	1/18/2023	9/12/2022	Updated annually: <a href="http://www.pinellascounty.org/emergency/prepareahead.htm">http://www.pinellascounty.org/emergency/prepareahead.htm</a>	Mary Burrell
Pinellas County EM Website	Recovery	Website	County-wide	Safety guideliness, disaster assistance, contractor information		9/5/2014	1/18/2023	9/12/2022	Updated:: <a href="http://www.pinellascounty.org/emergency/afterthestorm.htm">http://www.pinellascounty.org/emergency/afterthestorm.htm</a>	Mary Burrell
Pinellas County EM Website	Sandbags	Website	County-wide	Availability of sandbags prior to storms/flooding		9/5/2014	1/18/2023	9/12/2022	No Update - Current:: <a href="http://www.pinellascounty.org/emergency/sandbags.htm">http://www.pinellascounty.org/emergency/sandbags.htm</a>	Mary Burrell
Pinellas County EM Website	Transportation - traffic info	Website	County-wide	PSTA free service, resources on traffic reports, roadway conditions		9/5/2014	1/18/2023	9/12/2022	No updates - Current: <a href="http://www.pinellascounty.org/emergency/afterthestorm.htm">http://www.pinellascounty.org/emergency/afterthestorm.htm</a>	Mary Burrell
Pinellas County EM Website	Emergency alerts sent text, email, phone during emergencies; information on Twitter	Website/ Social Media	County-wide	Emergency Communications/ Warning		9/5/2014	1/18/2023	9/12/2022	Posted to instruct the public about communications and how/where to get information.	Mary Burrell
Pinellas County EM Website	Subscribe to E-news, Emergency News Service	Website/ Social Media/ Email	County-wide	Emergency Communications/ Warning		9/5/2014	1/18/2023	9/12/2022	News, announcements and updates sent electionally to subscribers	Mary Burrell

Pinellas County,  
Local Mitigation Strategy 2022-2023  
Appendix A, Table A-1, Pinellas County (County-wide) Outreach Matrix

Name of Event/Outreach	Description of Event / Outreach	Outreach Method	Target Audience	Target Message	Estimated Population Reached	Date Entered on this Table	Date Last Reviewed	Date Last Updated	Update Comments	Name of Last Reviewer
Pinellas County Social Media	Social media: Twitter, Facebook, NextDoor	Social Media	County-wide	Emergency Communications/Warning		9/5/2014	1/18/2023	9/12/2022	<a href="http://www.pinellascounty.org/emergency/stayconnected.htm">http://www.pinellascounty.org/emergency/stayconnected.htm</a>	Mary Burrell
Pinellas County EM Website	Amateur Radio Operator Links	Website	County-wide	Emergency Communications		9/5/2014	1/18/2023	9/12/2022	<a href="http://www.pinellascounty.org/emergency/radio/htm">http://www.pinellascounty.org/emergency/radio/htm</a>	Mary Burrell
Pinellas County EM Website	Weather Links	Website	County-wide	Know your risk		9/5/2014	1/18/2023	9/12/2022	<a href="http://www.pinellascounty.org/emergency/weather.htm">http://www.pinellascounty.org/emergency/weather.htm</a>	Mary Burrell
Media Partnerships	Sharing of data and Interviews including newspaper, television and radio	Interview	County-wide	All key messages are addressed throughout the year.		9/5/2014	1/18/2023	9/12/2022	No updates (ongoing)	Mary Burrell

## **TABLE A-2 MUNICIPAL OUTREACH MATRIX**

**Pinellas County**  
**Local Mitigation Strategy 2022 - 2023**  
**Appendix A, Table A-2 Municipal Outreach Matrix**

Municipality / Entity	Name of Event/Outreach	Description of Event/Outreach	Outreach Method	Target Audience	Target Message	Estimated Population Reached	Date Entered on this Table	Date Last Reviewed	Date Last Updated	Review Comments	Name of Last Reviewer
Belleair	Annual letter	Belleair sends out a letter annually for Town residents Know Your risk to all the property owners every year in our Utility bill which reaches 100% of our residents.	Letter in utility bill	Residents	Know Your risk to all the property owners every year	100% of the residents	12/10/2019	1/18/2023	12/10/2019		Gregg Lauda
Belleair	Know your flood risks, understand sea level rise impacts, etc	Handouts which are always available in Town Hall, municipal buildings,Rec Center,Police Department and librarySome of the items include Know your flood risk, purchase flood insurance,register to receive warnings, Only Rain Down the Drain, get building permits, illegal dumping, make an emergency plan, how sea level rise affects your property.	Handouts - Available in Town Hall, municipal buildings,Rec Center,Police Department and library.	Residents	Focuses on - Know your flood risk, purchase flood insurance,register to receive warnings, Only Rain Down the Drain, get building permits, illegal dumping, make an emergency plan, how sea level rise affects your property.	75% of residences	12/10/2019	1/18/2023	12/10/2019		Gregg Lauda
Belleair	Hurricane Newsletter	Town welcome packet for new residents that come into town hall to set up accounts that include brochures for Hurricane preparedness.	Town Welcome Packet	New Residents	Hurricane tips and pet safety during a storm.	77 % of New Residents	12/10/2019	1/18/2023	12/10/2019		Gregg Lauda
Belleair	Storm and hurricane preparedness	Participated in hurricane awareness week through Social Media/ facebook/Twitter. With tips for surviving the storm and hurricane preparedness tips. target audience was town wide residents.	Social Media/ facebook/Twitter	Residents	Tips for surviving the storm and hurricane preparedness tips	1600	12/10/2019	1/18/2023	12/10/2019		Gregg Lauda
Belleair	Code red	Code red for town residents that signed up through email. City staff will meet with	Email	Residents	Emergency Alerts	1600	12/10/2019	1/18/2023	12/10/2019		Gregg Lauda
Belleair	City staff site visits	property owners upon request to assist with property hazard mitigation . Area-Specific Meeting Municipality Protect your property from the hazard(s)/floods.	Site Visits	Residents	Meet with property owners upon request to assist with property hazard mitigation	100% of residents	12/10/2019	1/18/2023	12/10/2019		Gregg Lauda

**Pinellas County**  
**Local Mitigation Strategy 2022 - 2023**  
**Appendix A, Table A-2 Municipal Outreach Matrix**

Municipality / Entity	Name of Event/Outreach	Description of Event/Outreach	Outreach Method	Target Audience	Target Message	Estimated Population Reached	Date Entered on this Table	Date Last Reviewed	Date Last Updated	Review Comments	Name of Last Reviewer
Belleair	Hurricane Preparedness Information	Signs coming into town each year notifying residents of the start of hurricane season. and notifying residents of the Hurricane newsletter that can be picked up at all municipal buildings in the Town.	Road Signs	Residents	Indicate the start of hurricane season; notify the availability of hurricane newsletters.	Community wide, including Pinellas County residents	12/10/2019	1/18/2023	12/10/2019		Gregg Lauda
Belleair	Know your zone Information	On the website, know your zone, target audience all residents	Website	Residents	Information	100%	12/10/2019	1/18/2023	12/10/2019		Gregg Lauda
Belleair Beach	Hurricane Newsletter	Emailed to all property owners in June 1 of each year	Electronic Mailing	All property owners signed up for emails	Protect your property from the hazard(s)	361	10/2/2014	1/18/2023	9/11/2022		Kyle Riefler
Belleair Beach	Flood and Hurricane Awareness	Brochures are kept in magazine rack located in lobby	For residents coming in to the community center	All property owners	Protect your property from the hazard(s)	several hundred	10/2/2014	1/18/2023	9/11/2022		Kyle Riefler
Belleair Beach	Flood Facts Brochure	Mailed to all property owners, Realtors, Mortgage Companies, Financial Institutions and Insurance Companies	Mailing	All property owners, Realtors, Mortgage Companies, Financial Institutions and Insurance Companies.	Flood Information	1,650	8/16/2016	1/18/2023	9/11/2022		Kyle Riefler
Belleair Beach	Guide	Pinellas County All Hazards Preparedness Guide	Publication	For residents coming in to the community center and in welcome packets for new	Steps to preparedness, storm surge, special needs, evacuation zones, during & after the storm	Several hundred	8/17/2017	1/18/2023	9/11/2022		Kyle Riefler
Belleair Beach	Storm Drain Markers	Installed on all Storm drains	Public Signs, Brochures for residents	All residents	Only Rain Down the Drain	1650	8/16/2016	1/18/2023	9/11/2022		Kyle Riefler
Belleair Bluffs	Know your flood risks, understand sea level rise impacts, etc	include know your flood risk, purchase flood insurance,register to receive warnings, Only Rain Down the Drain, get building permits, illegal dumping, make an emergency plan.	Handouts - Available in City Hall, web site	Residents	Focuses on - Know your flood risk, purchase flood insurance,register to receive warnings, Only Rain Down the Drain, get building permits, illegal dumping, make an emergency plan.	2,200	10/2/2014	1/18/2023	12.15.2022		Russell Schmader
Belleair Bluffs	Hurricane Preparedness Information	Notification Boards notifying residents of the start of hurricane season. and notifying residents of the Hurricane newsletter that can be picked up at City Hall and is available on the web site	Notification Boards, web site, Next Door, Face Book	Residents and Businesses	Indicate the start of hurricane season; notify the availability of hurricane newsletters.	2,200	10/2/2014	1/18/2023	12.15.2022		Russell Schmader
Belleair Bluffs	Storm and hurricane preparedness	Participated in hurricane awareness week through Social Media such as	Notification Boards, web site, Next Door, Face Book	Residents and Businesses	Tips for surviving the storm and hurricane preparedness tips	2,200	10/2/2014	1/18/2023	12.15.2022		Russell Schmader
Belleair Bluffs	Annual LMS Report to City Commission	annual LMS, floodplain management planning update to City Commission	Presentation to Governing Body	Municipality	Comprehensive hazard risk identification and mitigation	2,200	10/2/2014	1/18/2023	12.15.2022		Russell Schmader
Belleair Bluffs	Flood Awareness	Website and city hall lobby	Notification Boards, web site, Next Door, Face Book	General information regarding all aspects of Flood Protection and	Protect natural functions (floodplain; habitat; etc.)	2,200	10/2/2014	1/18/2023	12.15.2022		Russell Schmader

**Pinellas County**  
**Local Mitigation Strategy 2022 - 2023**  
**Appendix A, Table A-2 Municipal Outreach Matrix**

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Belleair Bluffs	Know your flood risks, understand sea level rise impacts, etc	Web site/Publications	Quarterly Newsletter/web site	Residents, Business Owners, Realtors	Protect natural functions (floodplain; habitat; etc.)	2,200	10/2/2014	1/18/2023	12.15.2022		Russell Schmader
Belleair Bluffs	Storm Drain markers	every storm drain in the City. They are replaced as needed.	Brochures are given to each resident	All residents	Only Rain Down the Drain	2,200	10/2/2014	1/18/2023	12.15.2022		Russell Schmader
Belleair Bluffs	City Staff Meetings	City Staff meets to coordinate information for distribution, methods of distribution and when to distribute	Social media, print, web site, notification boards	Municipality	Tips for surviving the storm and hurricane preparedness tips	2,200	10/2/2014	1/18/2023	12.15.2022		Russell Schmader
Belleair Bluffs	Hurricane Sheltering In Place Symposium	A joint meeting with local government agencies, public service utilities, Police and Fire Departments and local elected officials	On web site	All residents and businesses	Preparing your home against wind, flood or other damage while sheltering in place, making a plan; emergency notification; evacuation; pet and medical provisionsetc.			1/18/2023	12.15.2022		Russell Schmader
Belleair Bluffs	Know your flood risks, understand sea level rise impacts, etc	Web site/Publications	Quarterly Newsletter/web site	Residents, Business Owners, Realtors	Protect natural functions (floodplain; habitat; etc.)	2,200	10/2/2014	1/18/2023	12.15.2022		Russell Schmader
Belleair Bluffs	Storm Drain markers	Storm drain markers are on every storm drain in the City. They are replaced as needed.	Brochures are given to each resident	All residents	Only Rain Down the Drain	2,200	10/2/2014	1/18/2023	12.15.2022		Russell Schmader
Belleair Bluffs	City Staff Meetings	City Staff meets to coordinate information for distribution, methods of distribution and when to distribute	Social media, print, web site, notification boards	Municipality	Tips for surviving the storm and hurricane preparedness tips	2,200	10/2/2014	1/18/2023	12.15.2022		Russell Schmader
Belleair Bluffs	Hurricane Sheltering In Place Symposium	A joint meeting with local government agencies, public service utilities, Police and Fire Departments and local elected officials	On web site	All residents and businesses	Preparing your home against wind, flood or other damage while sheltering in place, making a plan; emergency notification; evacuation; pet and medical provisionsetc.			1/18/2023	12.15.2022		Russell Schmader
Clearwater	Repetitive Loss Area Letter	Annual letter sent to approximately 1,250 residences in repetitive loss areas	Mailing	Repetitive Loss Area	Evaluating flood protection measures, flood insurance, be prepared, only rain down the drain, buy flood insurance, know your flood zone	3% of residences	10/4/2016	1/18/2023	3/31/2022		Sarah Kessler
Clearwater	My Clearwater Magazine – Flood Program article	Annual magazine article – mailed to residences and available at municipal buildings	Mailing	Municipality			10/4/2016	1/18/2023	6/30/2022		Sarah Kessler

**Pinellas County**  
**Local Mitigation Strategy 2022 - 2023**  
**Appendix A, Table A-2 Municipal Outreach Matrix**

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Clearwater	Handout	Always available in City Hall, municipal building, and library	Handout	Municipality	Know your flood risk, purchase flood insurance, register to receive warnings, Only Rain Down the Drain, get building permits, illegal dumping, make an emergency plan, how sea level rise affects your property	75% of residences	10/4/2016	1/18/2023	10/31/2022		Sarah Kessler
Clearwater	Extensive Social Media Posts	Frequent posts to several accounts on Facebook (City of Clearwater, Clearwater Police Department, Clearwater Fire and Rescue), Twitter (CLW Public Safety), and Instagram (Clearwater Police, Clearwater Fire Rescue)	Social Media	All residents	Turn around don't drown, make a plan, Only Rain down the drain, prepare for the storm, protect your property	30% of residents	10/4/2016	1/18/2023	12/16/2022		Sarah Kessler
Clearwater	Press release – Secure Chemicals before storm	Annual press release sent out to news agencies	Press release	All residents	Be prepared	10% of residents	10/4/2016	1/18/2023	3/31/2022		Sarah Kessler
Clearwater	Sunshine Line article – Stream Dumping Regulations	Annual article in Sunshine Lines, which is a utility stuffer and included with the bill.	Newsletter article	All residents	Only Rain Down the Drain	100% of residents	10/4/2016	1/18/2023	3/31/2022		Sarah Kessler
Clearwater	Sunshine Lines article – Safe Storage During Storm Season	Annual article in Sunshine Lines, which is a utility stuffer and included with the bill.	Newsletter article	All residents	Be prepared	100% of residents	10/4/2016	1/18/2023	3/31/2022		Sarah Kessler
Clearwater	Sunshine Lines article – Keep Clearwater Bright and Beautiful	Annual article in Sunshine Lines, which is a utility stuffer and included with the bill.	Newsletter article	All residents	Only Rain Down the Drain	100% of residents	10/4/2016	1/18/2023	3/31/2022		Sarah Kessler
Clearwater	Sunshine Lines article – City Offers Flood Protection Assistance	Annual article in Sunshine Lines, which is a utility stuffer and included with the bill.	Newsletter article	All residents	Protect property from flood damage	100% of residents	10/4/2016	1/18/2023	3/31/2022		Sarah Kessler
Clearwater	Insurance brochure provided by Florida Department of Emergency Management	Two sided brochure always available at City Hall, Municipal Service Building, Main Library, and Fire Station 45.	Brochure	All residents	Purchase flood insurance	5% of residents	10/4/2016	1/18/2023	12/19/2018		Sarah Kessler
Clearwater	Flood Safety brochure provided by Florida Department of Emergency Management	Two sided brochure always available at City Hall, Municipal Service Building, Main Library, and Fire Station 45.	Brochure	All residents	Be prepared, Turn around Don't Drown, Know your Hazard	5% of residents	10/4/2016	1/18/2023	12/19/2018		Sarah Kessler
Clearwater	Flood Mitigation brochure provided by Florida Department of Emergency Management	Two sided brochure always available at City Hall, Municipal Service Building, Main Library, and Fire Station 45.	Brochure	All residents	Protect floodplains and natural areas, protect dunes, Only Rain Down the Drain, Build responsibly	5% of residents	10/4/2016	1/18/2023	12/19/2018		Sarah Kessler



**Pinellas County**  
**Local Mitigation Strategy 2022 - 2023**  
**Appendix A, Table A-2 Municipal Outreach Matrix**

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Clearwater	Storm Drain markers	Storm drain markers are on every storm drain in the City. They are replaced as needed.	Sign	All residents	Only Rain Down the Drain	100% of residents	10/4/2016	1/18/2023	6/30/2022		Sarah Kessler
Clearwater	Skycrest Neighborhood Association	Annual Community Meeting	Area-Specific Meeting	Municipality	Public Safety Information (ex. Turn Around Don't Drown)	50	8/26/2014	1/18/2023	6/30/2022		Sarah Kessler
Clearwater	Villas of Sunset Grove	Annual Community Meeting	Area-Specific Meeting	Municipality	Public Safety Information (ex. Turn Around Don't Drown)	50	8/26/2014	1/18/2023	6/30/2022		Sarah Kessler
Clearwater	Monthly EM Meetings	Monthly Emergency Management Meetings	Roundtable/Forum	Municipality	EM Coordination	25	8/26/2014	1/18/2023	11/30/2022		Sarah Kessler
Clearwater	Hurricane Season Information	City Website Information	Website	Municipality	Know your risk	5,000	8/26/2014	1/18/2023	10/31/2022		Sarah Kessler
Clearwater	Surge Level Signs	Clearwater Beach Newsletter	Newsletter	Floodplain Residents	Public Safety Information (ex. Turn Around Don't Drown)	1,000	8/26/2014	1/18/2023	10/4/2016		Sarah Kessler
Clearwater	Floodplain Management Information	City Website Information	Website	Municipality	Know your risk	5,000	8/26/2014	1/18/2023	10/31/2022		Sarah Kessler
Clearwater	Flooding Information	City Website Information	Website	Municipality	Know your risk	5,000	8/26/2014	1/18/2023	10/31/2022		Sarah Kessler
Clearwater	Flood Flyer	Annual mailing to inform about flood hazards	Mailing	Repetitive Loss Properties, Floodplain Residents, Insurance	Know your risk	14,980	8/26/2014	1/18/2023	3/30/2022		Sarah Kessler
Clearwater	Flood Flyer	Annual mailing to inform about protective measures	Mailing	Repetitive Loss Properties, Floodplain Residents, Insurance	Public Safety Information (ex. Turn Around Don't Drown)	14,980	8/26/2014	1/18/2023	3/30/2022		Sarah Kessler
Clearwater	Loss Mitigation	Annual article in Sunshine Lines, which is a utility stuffer and included with the bill.	Mailing	Municipality	Make your Family/ Business Disaster Plan	49,000	8/26/2014	1/18/2023	6/30/2022		Sarah Kessler
Dunedin	Flood Map Information Services	Postcard	Direct Mailing	Banks, Insurance Companies, Realtors	Know your risk	202 businesses	12/10/2019	1/18/2023	9/12/2022		Joseph DiPasqua
Dunedin	Flood Event Preparation	Letter	Direct Mailing	Facilities with flammable/toxic substances storage	Protect your property from the hazard(s)	57 businesses	12/10/2019	1/18/2023	9/12/2022		Joseph DiPasqua
Dunedin	Flood Event Preparation	Letter w/Hazard Disclosure/Flood Insurance Information Enclosure	Direct Mailing	Realtors	Purchase of Flood Insurance	15 businesses	12/10/2019	1/18/2023	9/12/2022		Joseph DiPasqua
Dunedin	Repetitive Loss Information	Letter	Direct Mailing	Repetitive Loss Properties	Informational	All repetitive loss areas	12/10/2019	1/18/2023	9/12/2022		Joseph DiPasqua
Dunedin	Flood Awareness	Insert in Dunedin Beacon	Home delivery to all residents.	Municipality	Informational	100% of residents	12/10/2019	1/18/2023	9/12/2022		Joseph DiPasqua
Dunedin	Facts on Flooding Mailer	Brochure	Direct Mailing	Floodplain Properties	Informational	All floodplain properties	12/10/2019	1/18/2023	9/12/2022		Joseph DiPasqua
Dunedin	Repetitive Loss Information	Brochure	Direct Mailing	Repetitive Loss Properties	Informational	All repetitive loss areas	12/10/2019	1/18/2023	9/12/2022		Joseph DiPasqua
Dunedin	Website	Flood Awareness Webpage	Website	Municipality	Informational	100% of residents	12/10/2019	1/18/2023	9/12/2022		Joseph DiPasqua
Dunedin	Flood Zone Lookup	Internet based information	Website	Municipality	Know your risk	100% of residents	12/10/2019	1/18/2023	9/12/2022		Joseph DiPasqua
Gulfport	Annual Hurricane Seminar	Community venue	Community-wide event and later aired on GTV Channel 615	Municipality	Property and family protection from hazards	14,000	9/10/2014	1/18/2023			Michael Taylor, AICP
Gulfport	Flood Hazard Information Brochure	Brochure insert with utility bills	Brochure/Publication	Municipality	Protect your property from the hazard(s)	11,400	9/10/2014	1/18/2023			Michael Taylor, AICP

**Pinellas County**  
**Local Mitigation Strategy 2022 - 2023**  
**Appendix A, Table A-2 Municipal Outreach Matrix**

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Gulfport	Flood Protection Newsletter	Separate mail out to all floodplain properties	Mailing	Floodplain Residents	Protect your property from the hazard(s)	8,400	9/10/2014	1/18/2023			Michael Taylor, AICP
Gulfport	Flood Protection Newsletter	Separate mail out to all repetitive loss areas	Mailing	Repetitive Loss Areas	Protect your property from the hazard(s)	200	9/10/2014	1/18/2023			Michael Taylor, AICP
Gulfport	Flood Protection Newsletter	Separate mail out to all repetitive loss properties	Mailing	Repetitive Loss Properties	Protect your property from the hazard(s)	30	9/10/2014	1/18/2023			Michael Taylor, AICP
Gulfport	Mail out to banks, insurance companies, real estate companies, & contractors located within the City	Letter focusing on available hazard information and City services for mitigation	Mailing	Businesses	Insure your property for your hazard(s)	1,000	9/10/2014	1/18/2023			Michael Taylor, AICP
Gulfport	GTV Channel 615	Gulfport television station	Hazard protection television programming	Municipality	Hazard mitigation for property and family	14,000	9/10/2014	1/18/2023			Michael Taylor, AICP
Gulfport	Storm surge high water mark signage	6 high water, storm surge markers placed in areas of known flooding throughout the City	Signage	Municipality	Know your risk	14,000	9/10/2014	1/18/2023			Michael Taylor, AICP
Gulfport	Gulfport City Library	Hazard and mitigation reference materials, and FIRMs on-file for review	Books, brochures, information sheets, and FIRMs for patrons to review	Municipality	Property and family protection from hazards	14,000	9/10/2014	1/18/2023			Michael Taylor, AICP
Gulfport	Gulfport website: www.mygulfport.us	Flood and hazard mitigation information	Website	Municipality	Build Responsibly	14,000	9/10/2014	1/18/2023			Michael Taylor, AICP
Gulfport	Surviving The Storm	Distribution of publication in City facilities and Annual Hurricane Seminar	Publication	County-wide	Public Safety Information (ex. Turn Around Don't Drown)	14,000	9/10/2014	1/18/2023			Michael Taylor, AICP
Gulfport	Public Outreach Strategy	City staff and residents participate on a committee focusing on outreach for hazard mitigation	Community Event	Municipality	Build Responsibly	14,000	9/10/2014	1/18/2023			Michael Taylor, AICP
Gulfport	City staff site visits	City staff will meet with property owners upon request to assist with property hazard mitigation City staff presents the annual LMS, floodplain management planning update to City Council	Area-Specific Meeting	Municipality	Protect your property from the hazard(s)	8,400	9/10/2014	1/18/2023			Michael Taylor, AICP
Gulfport	Annual LMS Report to City Council	City staff presents the annual LMS, floodplain management planning update to City Council	Presentation to Governing Body	Municipality	Comprehensive hazard risk identification and mitigation	14,000	9/10/2014	1/18/2023			Michael Taylor, AICP
Indian Rocks Beach	Brochures in City Hall lobby	Numerous brochures related to flooding, natural benefits of floodplains, stormwater, etc.	Brochures for pick-up by visitors	Entire Community	10 CRS Topics from 2017 CRS Manual.		9/2/2014	1/18/2023	1/6/2022		Dean Scharmen
Indian Rocks Beach	Flood-related materials cataloged in IRB Library	Documents, booklets, brochures, etc. available at library	General Outreach	Entire Community	9 documents listed in 2017 CRS Manual and numerous other documents		9/2/2014	1/18/2023	1/6/2022		Dean Scharmen
Indian Rocks Beach	City of Indian Rocks Beach website	Flood information on City website	website	Entire Community	10 CRS Topics from 2017 CRS Manual		9/2/2014	1/18/2023	1/6/2022		Dean Scharmen

**Pinellas County**  
**Local Mitigation Strategy 2022 - 2023**  
**Appendix A, Table A-2 Municipal Outreach Matrix**

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Indian Rocks Beach	City Newsletter to Repetitive Loss Areas	Information in City Newsletter mailed to properties in repetitive loss areas	Newsletter mailed to every address in IRB	repetitive loss properties identified by FEMA and neighboring properties susceptible to same flood hazards	10 Topics	4300	9/2/2014	1/18/2023	1/6/2022		Dean Scharmen
Indian Rocks Beach	City of Indian Rocks Beach Quarterly Newsletter	Flood-related articles	Newsletter mailed to registered voters	Registered voters	10 Topics	3,615	9/2/2014	1/18/2023	1/6/2022		Dean Scharmen
Indian Rocks Beach	Belleair Bee Newspaper	Articles	General	Entire Community	Natural functions of floodplains/Build Responsibly	4,300	10/9/2017	1/18/2023	1/6/2022		Dean Scharmen
Indian Rocks Beach	Social Media Posts	Social Media	Web	Entire Community	9 Topics (all except Natural Functions of Floodplains)	4,300	10/9/2017	1/18/2023	1/6/2022	City and Stakeholder social media	Dean Scharmen
Indian Rocks Beach	Rotary Club Presentations	Presentation at Member Meeting	General	Business Community	9 Topics (all except Natural Functions of Floodplains)	50	10/9/2017	1/18/2023			Dean Scharmen
Indian Rocks Beach	Welcome Packet	Brochures in new resident welcome packet	General	Entire Community	10 Topics	30	10/9/2017	1/18/2023			Dean Scharmen
Indian Rocks Beach	Brochures for pickup in Public Services Office	Brochures on display	Informational	Entire Community	10 Topics	50	10/9/2017	1/18/2023			Dean Scharmen
Indian Rocks Beach	Target Group letter to Real Estate Agents with City Flood Brochure Enclosed	Letter and Brochure	Direct Mailing	Real Estate Agents	10 Topics	18	12/29/2021	1/18/2023	1/6/2022		Dean Scharmen
Indian Rocks Beach	Target Group letter to Insurance Companies with city Flood Brochure enclosed	Letter and Brochure	Direct Mailing	Insurance companies	10 Topics	25	12/30/2021	1/18/2023	1/6/2022		Dean Scharmen
Indian Rocks Beach	Target Group letter to Landscapers with city Flood Brochure enclosed	Letter and Brochure	Direct Mailing	Lanscaping companies	10 Topics	22	12/31/2021	1/18/2023	1/6/2022		Dean Scharmen
Indian Shores	Brochures in City Hall	Numerous brochures related to the National Flood Insurance Program[1],	Brochures/ Publications	Walk-in visitors to Town Hall	Preparation and awareness	1,423	9/16/2014	1/18/2023			Michelle Tidwell
Indian Shores	Town of Indian Shores website	2007 - 2008 Winter NFIP, CRS Update, Annual Progress Report 510, 2008 [2]	Website	Indian Shores Residents	Preparation and awareness	1,423	9/16/2014	1/18/2023			Michelle Tidwell
Indian Shores	Hurricane Awareness Party	Guest Speakers: Meteorologist; Brian McClure from Bay News 9 and Pinellas County Emergency Management	Community Event	County-wide	Preparation and awareness	1,423	9/16/2014	1/18/2023			Michelle Tidwell
Indian Shores	Newsletter	Newsletter with flood information twice per year	Newsletter	Indian Shores Residents	Know your risk	2,500	9/16/2014	1/18/2023			Michelle Tidwell
Kenneth City	Town of Keeneth City Website	Information and links added to Town's website	Websute	Kenneth City Residents	Preparation and Awareness	5,000	9/28/2021	1/18/2023			
Largo	Imperial Palms Hurricane Preparedness (6/11/14)	Neighborhood meeting to discuss hurricane preparedness	Community Event	Municipality	Risk Assessment/ Preparation and Recovery Planning	100	8/20/2014	1/18/2023	9/19/2016		Doug Swartz

**Pinellas County**  
**Local Mitigation Strategy 2022 - 2023**  
**Appendix A, Table A-2 Municipal Outreach Matrix**

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Largo	Preparing Business for disasters and recovery (6/18/14)	Meet with Central Pinellas Chamber of Commerce to discuss steps for businesses to take for planning and preparation as well as recovery.	Roundtable/Forum	Businesses	Make your Family/ Business Disaster Plan	200	8/20/2014	1/18/2023	9/19/2016		Doug Swartz
Largo	HomeBanc Belleair (5/27/14)	Meeting with Business to discuss preparedness	Community Event	Business	Risk Assessment/ Preparation and Recovery Planning	10	10/31/2014	1/18/2023	9/19/2016		Betti Johnson
Largo	Royal Palms Hurricane Preparedness (6/24/14)	Neighborhood meeting to discuss hurricane preparedness	Community Event	Municipality	Risk Assessment/ Preparation and Recovery Planning	250	8/20/2014	1/18/2023	9/19/2016		Doug Swartz
Largo	Palm Hill MHP Hurricane Preparedness (6/18/14)	Neighborhood meeting to discuss hurricane preparedness	Community Event	Municipality	Risk Assessment/ Preparation and Recovery Planning	150	8/20/2014	1/18/2023	9/19/2016		Doug Swartz
Largo	Community Awareness Campaign (ongoing)	Video series links on City web site	Website	Municipality	Risk Assessment/ Preparation and Recovery Planning		8/20/2014	1/18/2023	9/19/2016		Doug Swartz
Largo	BRACE for the Storm (May 6, 2014)	Internet based workshop to provide homeowners with an understanding of how to make their home safe from the next Hurricane and other disaster that threaten Florida residents.	Community Event	Municipality	Protect your property from the hazard(s)	1,600	8/21/2014	1/18/2023	9/19/2016		Johan Hendrickson
Largo	Annual Flood Mailing	Mail out to properties within the SFHA regarding risks, flood insurance benefits, natural and beneficial floodplains, development permit requirements and City of Largo Flood Zone map.	Mailing	Floodplain Residents	Know your risk	2,200	8/21/2014	1/18/2023	9/19/2016		Johan Hendrickson
Largo	Largo Fire Open House	Open House to provide homeowners with an understanding of how to make their home safe from the next Hurricane and other disaster that threaten Florida residents.	Community Event	Municipality	Risk Assessment/ Preparation and Recovery Planning	1500	10/31/2014	1/18/2023	9/19/2016		Betti Johnson
Largo	Repetitive Loss Mailing	Mail out to Repetitive Loss properties within City regarding risks, flood insurance benefits, natural and beneficial floodplains, development permit requirements and City of Largo Flood Zone map.	Mailing	Repetitive Loss Properties	Know your risk	7	8/26/2014	1/18/2023	9/19/2016		Johan Hendrickson

**Pinellas County**  
**Local Mitigation Strategy 2022 - 2023**  
**Appendix A, Table A-2 Municipal Outreach Matrix**

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Largo	Central Pinellas Business Showcase	Business-to-Business and Business-to-Consumer Expo. Provided NFIP brochures.	Community Event	Businesses	Insure your property for your hazard(s)	1,500	8/26/2014	1/18/2023	9/19/2016		Johan Hendrickson
Largo	Emergency Preparedness City of Largo Website	Preparation/Checklists/NH C Videos/Evacuation/Shelters/Pet Safety/Links to other Resources	Website	Municipality	Public Safety Information (ex. Turn Around Don't Drown)		8/26/2014	1/18/2023	9/19/2016		Johan Hendrickson
Largo	Floodplains: City of Largo Website	Terms & Definitions/Links to Resources/CRS Annual Floodplain Management Plan Update/FEMA link to FIRM's/View Elevation Certificates online	Website	Municipality	Protect your property from the hazard(s)		8/26/2014	1/18/2023	9/19/2016		Johan Hendrickson
Largo	Guide	2014 Pinellas County Hurricane Guide	Brochure/ Publication	Municipality	All-Hazard Preparedness, Recovery Guide		8/26/2014	1/18/2023	9/19/2016		Johan Hendrickson
Largo	Flood: Are You Protected From The Next Disaster?	FEMA/NFIP Brochure-Flood Insurance	Brochure/ Publication	Municipality	Insure your property for your hazard(s)		8/27/2014	1/18/2023	9/19/2016		Johan Hendrickson
Largo	NFIP/CRS Saving: Lives, Property, Money	NFIP/CRS Brochure - What is NFIP, CRS? Community participation and benefits of CRS.	Brochure/ Publication	Municipality	Insure your property for your hazard(s)		8/27/2014	1/18/2023	9/19/2016		Johan Hendrickson
Largo	Annual Lakes & Ponds Education Day (April 12, 2014)	Workshop for volunteers and citizens interested in the health and management of our water resources, specifically community lakes and stormwater ponds. (67 participants)	Community Event	County-wide	Protect natural functions (floodplain; habitat; etc.)		8/27/2014	1/18/2023	9/19/2016		Johan Hendrickson
Largo	Stress Relievers – Hurricane Recovery Focus (May 20, 2015)	Condo Association Managers Luncheon	Community Event	Condominium Management	Disaster Recovery	20	9/19/2016	1/18/2023	9/19/2016		David Mixson
Largo	Largo Annual Hurricane Expo (May 28, 2015)	Workshop followed by an ask the experts panel	Live presentation	Largo residents and business owners	Hurricane Preparedness	25 Citizens	9/19/2016	1/18/2023	9/19/2016		David Mixson
Largo	National Hurricane Week	Educational outreach utilizing Ready.gov	Social Media (Facebook and Twitter)	Citywide	Hurricane Preparedness	Unlimited	9/19/2016	1/18/2023	9/19/2016		David Mixson
Largo	Emergency Management for Businesses (June 1, 2015)	Information letter sent to all city businesses from EM	Direct Mailing	Largo Business	Emergency Management	4,000	9/19/2016	1/18/2023	9/19/2016		David Mixson
Largo	Largo V News (2015 Hurricane Season)	Video clips recorded for citizen access on city website	www.largo.com	Citywide	Hurricane Preparedness	Unlimited	9/19/2016	1/18/2023	9/19/2016		David Mixson
Largo	Hurricane Preparation	Educational outreach	Community presentation	Imperial Palms Residents	Hurricane Preparedness	44	9/19/2016	1/18/2023	9/19/2016		David Mixson
Largo	Largo Fire Rescue Open House (October 17, 2015)	Informational display staffed by EM professionals. Handouts provided	Community Event	Largo residents	Disaster Preparedness	2,500	9/19/2016	1/18/2023	9/19/2016		David Mixson
Largo	Largo Small Business event (November 4, 2015)	Informational display staffed by EM professionals. Handouts provided.	Community Event	Largo Businesses	Disaster Plan for Business	20	9/19/2016	1/18/2023	9/19/2016		David Mixson



**Pinellas County**  
**Local Mitigation Strategy 2022 - 2023**  
**Appendix A, Table A-2 Municipal Outreach Matrix**

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Largo	Active Shooter Awareness (December 21, 18 2015)	Information provided and mini tent card for Active Shooter event	City Bulletin (Electronic)	City of Largo Employees	Active Shooter Training	800	9/19/2016	1/18/2023	9/19/2016		David Mixson
Largo	Emergency Management Updates/News and Notice Items (Feb 08, 2016-Sep. 19 2016) Continuously Updated	Educational Outreach via web links infographics, and videos.	www.largo.com	Largo Residents-City Wide		1,606	9/19/2016	1/18/2023	9/19/2016		Summer Mahr
Largo	Facebook/Twitter outreach (Feb 08, 2016-Sep. 19 2016) Continuously Updated	Educational Outreach via web links, infographics, and videos.	Facebook	County-Wide	El Nino, Zika Awareness, Alert Pinellas, Hurricane Prep, Floods, Heatstroke, National Prep Month	20,949	9/19/2016	1/18/2023	9/19/2016		Summer Mahr
Largo	Hurricane Preparation / Public Education (April 17, 2016)	Educational outreach	Community presentation	Ranch MHP	Hurricane Preparedness	45	9/19/2016	1/18/2023	9/19/2016		Summer Mahr
Largo	Hurricane Preparation / Public Education (May 6, 2016)	Educational outreach	Community presentation	Imperial Palms Residents	Hurricane Preparedness	50	9/19/2016	1/18/2023	9/19/2016		Summer Mahr
Largo	Hurricane Preparation / Public Education (May 10, 2016)	Educational outreach	Community presentation	Teakwood East	Hurricane Preparedness	100	9/19/2016	1/18/2023	9/19/2016		Summer Mahr
Largo	Largo Annual Hurricane Expo (May 26, 2016)	Educational outreach/Workshop followed by ask the expert panel	Community presentation	Largo Residents and Business Owners-at Largo Public Library	Hurricane Preparedness	50	9/19/2016	1/18/2023	9/19/2016		Summer Mahr
Largo	Hurricane Preparation / Public Education (May 27, 2016)	Educational outreach	Community presentation	Pinellas Heights	Hurricane Preparedness	20	9/19/2016	1/18/2023	9/19/2016		Summer Mahr
Largo	Hurricane Preparation / Public Education (June 7, 2016)	Educational outreach	Community presentation	Teakwood West	Hurricane Preparedness	80	9/19/2016	1/18/2023	9/19/2016		Summer Mahr
Largo	Hurricane Preparation / Public Education (June 18, 2016)	Educational outreach	Community presentation	Oak Crest MHP	Hurricane Preparedness	60	9/19/2016	1/18/2023	9/19/2016		Summer Mahr
Largo	Hurricane Preparation / Public Education (June 22, 2016)	Educational outreach	Community presentation	Pelican Place Condos	Hurricane Preparedness	20	9/19/2016	1/18/2023	9/19/2016		Summer Mahr
Largo	Hurricane Preparation / Public Education (June 30, 2016)	Educational outreach	Community presentation	The Barrington	Hurricane Preparedness	25	9/19/2016	1/18/2023	9/19/2016		Summer Mahr
Largo	Hurricane Preparation / Public Education (September 14, 2016)	Educational outreach	Community presentation	Four Seasons	Hurricane Preparedness	40	9/19/2016	1/18/2023	9/19/2016		Summer Mahr
Largo	Hurricane Door Hanger Project Aug-Present (continuous project)	Educational Door hanger	Canvas of door hangers to residents in different evacuation zones (starting with "A")	City Residents	Hurricane Preparedness	5000	9/19/2016	1/18/2023	9/19/2016		Summer Mahr
Largo	Pinellas County All Hazards Guide Distribution	Educational Newspaper Guide	Various Educational Outreach Events and Expos	City Residents	Hurricane Preparedness	800	9/19/2016	1/18/2023	9/19/2016		Summer Mahr
Largo	The Barrington Health and Safety Fair (October 6, 2016)	Distributed All Hazards Guides and hurricane safety information	Community Event	Barrington Residents	Hurricane Preparedness	25	10/24/2017	1/18/2023			Summer Mahr
Largo	Largo Fire Rescue Open House (October 17, 2016)	Pinellas County Emergency Management and Largo Public Education had a table set up distributing Hurricane Preparedness Information	Community Event	Citizens of Largo and nearby municipalities	Hurricane Preparedness-knowing what to do before during and after the storm	600	10/24/2017	1/18/2023			Summer Mahr
Largo	Largo Business Night (November 2, 2016)	Distributed Hurricane Preparedness information as well as FL Get a Plan! Info, for business preparedness plans.	Community Event	City of Largo Business Owners	Hurricane Preparedness for Business Owners	35	10/24/2017	1/18/2023			Summer Mahr

**Pinellas County**  
**Local Mitigation Strategy 2022 - 2023**  
**Appendix A, Table A-2 Municipal Outreach Matrix**

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Largo	Veteran's Day Celebration (11/11/16)	Had a safety table set up and distributed hurricane preparedness information	Community Event	Largo Citizens	Hurricane Preparedness	50	10/24/2017	1/18/2023			Summer Mahr
Largo	Largo Police Department Safety Day (11/12/16)	Had a safety table set up and distributed hurricane preparedness information	Community Event	Largo Citizens	Hurricane Preparedness	100	10/24/2017	1/18/2023			Summer Mahr
Largo	Duke Energy Safety Fair (11/17/16)	Had a safety table set up and distributed hurricane preparedness information	Community Event	Duke Energy Employees	Hurricane Preparedness	100	10/24/2017	1/18/2023			Summer Mahr
Largo	Fairway Village Safety Fair (2/21/17)	Had a safety table set up and distributed hurricane preparedness information	Community Event	Fairway Village Residents	Hurricane Preparedness	400	10/24/2017	1/18/2023			Summer Mahr
Largo	Hurricane Preparation Presentation Teakwood Village East (4/11/17)	Educational outreach to give preparedness information for before, during, and after the storm	Community Presentation	Teakwood Village East	Hurricane Preparedness	120	10/24/2017	1/18/2023			Summer Mahr
Largo	Hurricane Preparation Presentation Pinellas Heights (5/18/17)	Educational outreach to give preparedness information for before, during, and after the storm	Community Presentation	Pinellas Heights	Hurricane Preparedness	25	10/24/2017	1/18/2023			Summer Mahr
Largo	SCC Software Health Fair (5/19/16)	Had a safety table set up and distributed hurricane preparedness information	Community Event	SCC Software Employees	Hurricane Preparedness	200	10/24/2017	1/18/2023			Summer Mahr
Largo	Hurricane Preparation Presentation Palm Hill North (5/22/17)	Educational outreach to give preparedness information for before, during, and after the storm	Community Presentation	Palm Hill North	Hurricane Preparedness	80	10/24/2017	1/18/2023			Summer Mahr
Largo	Hurricane Preparation Presentation Palm Hill South (5/24/17)	Educational outreach to give preparedness information for before, during, and after the storm	Community Presentation	Palm Hill South	Hurricane Preparedness	60	10/24/2017	1/18/2023			Summer Mahr
Largo	Annual Hurricane Preparedness Event at Largo Public Library (5/26/17)	Educated citizens and business owners on how to prepare before, during and after a hurricane. Guests had the opportunity to visit table vendors as well. Pinellas County Emergency Mangement and State of Florida EM joined the event on the ask the expert panel	Community Presentation	Citizens County Wide- invited to join	Hurricane Preparedness	100	10/24/2017	1/18/2023			Summer Mahr
Largo	Hurricane Preparation Presentation Imperial Palms Senior Apartments (6/02/17)	Educational outreach to give preparedness information for before, during, and after the storm	Community Presentation	Imperial Palms Residents	Hurricane Preparedness	50	10/24/2017	1/18/2023			Summer Mahr

**Pinellas County**  
**Local Mitigation Strategy 2022 - 2023**  
**Appendix A, Table A-2 Municipal Outreach Matrix**

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Largo	Hurricane Preparation Presentation Glenwood Estates Mobile Home Park (6/10/17)	Educational outreach to give preparedness information for before, during, and after the storm	Community Presentation	Glenwood Estates Residents	Hurricane Preparedness	60	10/24/2017	1/18/2023			Summer Mahr
Largo	Hurricane Preparation Presentation The Barrington ALF (6/28/17)	Educational outreach to give preparedness information for before, during, and after the storm	Community Presentation	The Barrington Residents	Hurricane Preparedness	30	10/24/2017	1/18/2023			Summer Mahr
Largo	Hurricane Preparedness Preparation Presentation for Retired Employees of Pinellas County at Applebees on East Bay (7/10/17)	Educational outreach to give preparedness information for before, during, and after the storm	Community Presentation	Pinellas County Residents	Hurricane Preparedness	30	10/24/2017	1/18/2023			Summer Mahr
Largo	Hurricane Preparation Presentation El Dorado Village Mobile Home Park (7/11/17)	Educational outreach to give preparedness information for before, during, and after the storm	Community Presentation	El Dorado Village Residents	Hurricane Preparedness	40	10/24/2017	1/18/2023			Summer Mahr
Largo	Hurricane Preparation Presentation Four Seasons Mobile Home Park (7/19/17)	Educational outreach to give preparedness information for before, during, and after the storm	Community Presentation	Four Seasons Residents	Hurricane Preparedness	60	10/24/2017	1/18/2023			Summer Mahr
Largo	FarmShare Event (7/28/17)	Had a safety table set up and distributed hurricane preparedness information	Community Event	Pinellas County and Largo Residents	Hurricane Preparedness	400	10/24/2017	1/18/2023			Summer Mahr
Largo	After the Storm-Post Irma Hurricane Q and A El Dorado Village Mobile Home Park (9/21/17)	Distributed educational information and resources for post storm assistance. Educated on lessons learned from the storm, safety tips learned during the storm, and post storm analysis discussion.	Community Presentation	El Dorado Village Residents	Hurricane Preparedness-Post Storm Discussion	60	10/24/2017	1/18/2023			Summer Mahr
Largo	Largo Fire Rescue Open House (October 14, 2017)	Pinellas County Emergency Management and Largo Public Education had a table set up distributing Hurricane Preparedness Information	Community Event	Citizens of Largo and nearby municipalities, County-Wide	Hurricane Preparedness-knowing what to do before during and after the storm	1200	10/24/2017	1/18/2023			Summer Mahr
Largo	Facebook/Twitter outreach (Sep 19, 2016-Oct 24 2017) Continuously Updated	Educational Outreach via web links, infographics, and videos.	Facebook, Twitter	Citizens of Largo and nearby municipalities, County-wide	El Nino, Alert Pinellas, Zika, Hurricane Preparedness, Heatstroke, Floods, National Prep Month, Hurricane Irma Updates	Over 20,000	10/24/2017	1/18/2023			Summer Mahr
Largo	Hurricane Door Hanger Project, Aug-Present, (continuous project)	Educational Door hanger	Canvas of door hangers to residents in different evacuation zones (starting with "A")	City Residents	Hurricane Preparedness	5000	10/24/2017	1/18/2023			Summer Mahr
Largo	Pinellas County All Hazards Guide Distribution	Educational Newspaper Guide	Various Educational Outreach Events and Expos	City Residents	Hurricane Preparedness	800	10/24/2017	1/18/2023			Summer Mahr



**Pinellas County**  
**Local Mitigation Strategy 2022 - 2023**  
**Appendix A, Table A-2 Municipal Outreach Matrix**

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Largo Fire Rescue	Facebook/Twitter outreach	Educational Outreach via web links, infographics, and videos.	Social Media	Municipality	Hurricane Preparedness, emergency alerts, preparations before, during, and after the storm.	Over 20,000	12/18/18	1/18/2023			Summer Mahr
Largo Fire Rescue	After Hours Business Expo-Chamber of Commerce (3/01/18)	Shared business preparedness information with businesses in regards to making a hurricane and emergency disaster plan	Tabling Event	Business Owners	Hurricane preparedness for business owners and residents	300	12/18/18	1/18/2023			Summer Mahr
Largo Fire Rescue	Healthcare and Hazards Hurricane Expo(3/14/18)	Teamed up with PCEM with a safety table to share hurricane preparedness information to healthcare providers and staff.	Tabling Event	Municipality	Hurricane Preparedness	400	12/18/18	1/18/2023			Summer Mahr
Largo Fire Rescue	El Dorado Village MHP Hurricane Prep (3/14/18)	Taught residents preparedness steps for before, during, and after the storm	Presentation	El Dorado Village Residents	Hurricane Preparedness	40	12/18/18	1/18/2023			Summer Mahr
Largo Fire Rescue	Four Seasons MHP Hurricane Prep	Taught residents preparedness steps for before, during, and after the storm	Presentation	Four Seasons Residents	Hurricane Preparedness	200	12/18/18	1/18/2023			Summer Mahr
Largo Fire Rescue	Yankee Traveler RV Park	Taught residents preparedness steps for before, during, and after the storm	Presentation	Yankee Traveler RV Park	Hurricane Preparedness	30	12/18/18	1/18/2023			Summer Mahr
Largo Fire Rescue	Paradise Island MHP Hurricane Preparedness	Teamed up with Pinellas County EM Ambassador Barry Damaino to teach hurricane preparedness to citizens	Presentation	Paradise Island MHP Residents	Hurricane Preparedness	80	12/18/18	1/18/2023			Summer Mahr
Largo Fire Rescue	Belleair Bluffs Hurricane Symposium	Symposium held with several other agencies to give hurricane preparedness information to citizens of Belleair Bluffs and Town of Belleair	Presentation	Belleair Bluffs, Town of Belleair, and Largo Citizens	Hurricane Preparedness	80	12/18/18	1/18/2023			Summer Mahr
Largo Fire Rescue	Sound the Alarm Smoke Alarm Campaign	In addition to installing smoke alarms, citizens were left with hurricane preparedness information from the Red Cross	Handouts	Largo Citizens	Hurricane Preparedness	80	12/18/18	1/18/2023			Summer Mahr
Largo Fire Rescue	Shady Lane Oaks Hurricane Preparedness	Presentation to MHP residents regarding hurricane preparedness	Presentation	Shady Lane Oaks Residents	Hurricane Preparedness	45	12/18/18	1/18/2023			Summer Mahr
Largo Fire Rescue	Imperial Palms Apartments Hurricane Prep	Presentation to apartment senior residents regarding hurricane preparedness. Teamed up with Community Policing Officer Vu Tran to discuss	Presentation	Imperial Palms Residents	Hurricane Preparedness	50	12/18/18	1/18/2023			Summer Mahr

**Pinellas County**  
**Local Mitigation Strategy 2022 - 2023**  
**Appendix A, Table A-2 Municipal Outreach Matrix**

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Largo Fire Rescue	Hurricane Prep at Regal Palms	Summer on speakers panel to present hurricane preparedness information to citizens that live throughout the city—this event was not for regal palms residents as they are already part of the facilities preparedness plan	Presentation	Largo Citizens	Hurricane Preparedness	80	12/18/18	1/18/2023			Summer Mahr
Largo Fire Rescue	Hurricane Prep at Pinellas Heights	Hurricane preparedness presentation for residents of Pinellas Heights	Presentation	Pinellas Heights residents	Hurricane Preparedness	70	12/18/18	1/18/2023			Summer Mahr
Largo Fire Rescue	Hurricane Prep at Ranchero Village	Hurricane preparedness presentation for residents of Ranchero Village MHP	Presentation	Ranchero Village residents	Hurricane Preparedness	70	12/18/18	1/18/2023			Summer Mahr
Largo Fire Rescue	Hurricane Prep at The Barrington	Hurricane preparedness presentation for residents of The Barrington	Presentation	Barrington Residents	Hurricane Preparedness	20	12/18/18	1/18/2023			Summer Mahr
Largo Fire Rescue	Hurricane Prep at Lakeview of Largo	Hurricane preparedness presentation for residents of Lakeview Largo Condos	Presentation	Lakeview Residents	Hurricane Preparedness	50	12/18/18	1/18/2023			Summer Mahr
Largo Fire Rescue	Hurricane Prep at Indian Rocks Baptist Church	Hurricane preparedness presentation for Largo residents and members of the church	Presentation	Largo Citizens	Hurricane Preparedness	60	12/18/18	1/18/2023			Summer Mahr
Largo Fire Rescue	Hurricane Prep at La Plaza MHP	Hurricane preparedness presentation for La Plaza MHP residents	Presentation	La Plaza Residents	Hurricane Preparedness	20	12/18/18	1/18/2023			Summer Mahr
Largo Fire Rescue	Hurricane Prep at Lincolnshire MHP	Hurricane preparedness presentation for Lincolnshire MHP residents	Presentation	Lincolnshire Residents	Hurricane Preparedness	120	12/18/18	1/18/2023			Summer Mahr
Largo Fire Rescue	Hurricane Prep at West Bay Oaks MHP	hurricane preparedness presentation for West Bay Oaks residents	Presentation	West Bay Oaks Residents	Hurricane Preparedness	15	12/18/18	1/18/2023			Summer Mahr
Largo Fire Rescue	Anti-Pesto Pest Control Hurricane Prep	Educated staff on hurricane preparedness for home and business	Presentation	Anti Pesto Employees	Hurricane Preparedness	25	12/18/18	1/18/2023			Summer Mahr
Largo Fire Rescue	Largo Fire Rescue Annual Hurricane Preparedness Event	Prepared citizens on hurricane safety with a speakers panel and vendor tables	Presentation	Largo Citizens	Hurricane Preparedness	120	12/18/18	1/18/2023			Summer Mahr
Largo Fire Rescue	El Dorado Village MHP Hurricane Prep	Hurricane Preparedness Presentation for Residents- this is a re-visit	Presentation	El Dorado Village Residents	Hurricane Preparedness	10	12/18/18	1/18/2023			Summer Mahr
Largo Fire Rescue	Hurricane Prep at Greater Ridgecrest Area Youth Development Initiative Center	Hurricane Preparedness Presentation for Residents of the Ridgecrest Community	Presentation	Ridgecrest Residents	Hurricane Preparedness	20	12/18/18	1/18/2023			Summer Mahr
Largo Fire Rescue	Pinellas County All Hazards Guide Distribution	Distribution of guide to citizens of Largo, Belleair Bluffs, and Belleair	All Hazards Guide Handout	Municipality Citizens	All Hazards-with focus on hurricane preparedness	800	12/18/18	1/18/2023			Summer Mahr

**Pinellas County**  
**Local Mitigation Strategy 2022 - 2023**  
**Appendix A, Table A-2 Municipal Outreach Matrix**

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Largo Fire Rescue	Pinellas County All Hazards Guide, Alert Pinellas and Special Needs Registry information Distribution (2019)	Distribution of guide to citizens of Largo, Belleair Bluffs, and Belleair	All Hazards Guide Handout	Municipality Citizens	All Hazards-with focus on hurricane preparedness	3,000	10/31/2019	1/18/2023			Summer Mahr
Largo Fire Rescue	Hurricane Preparedness Expo (2019)	Preparation for Citizen Before During and After the Storm	Face to Face Presentation	Citizens	Hurricane preparedness	200	10/31/2019	1/18/2023			Summer Mahr
Largo Fire Rescue	New Employee and Supervisor Orientation	educate employees on their responder status within the City and expectation to prepare their homes and families before the storm	Face to Face Presentation	City of Largo Employees	Emergency preparedness- hurricanes	200	10/31/2019	1/18/2023			Summer Mahr
Largo Fire Rescue	Florida County and City Managers Association-A Citywide Approach to Emergency Management	Educated city and county partners on the City of Largo's Citywide approach to emergency management	face to face presentation	city and county managers, fire department officers	Emergency Management	35	10/31/2019	1/18/2023			Summer Mahr
Largo Fire Rescue	Mobile Home Park Hurricane Preparedness Door Hanger Project (Countywide Initiative-Annually)	Educated mobile home residents on the importance of evacuation and storm preparedness	door hanger canvass	mobile home park residents	hurricane preparedness	17,000	10/31/2019	1/18/2023			Summer Mahr
Largo Fire Rescue	Emergency Management Planning Committee Meetings	Section Chiefs and Managers meet monthly to discuss action items for emergency management preparedness in the City	face to face	City Employees	emergency management- hurricane preparedness	15	10/31/2019	1/18/2023			Summer Mahr
Largo Fire Rescue	Emergency Management Week	City wide training to all departments on emergency management	face to face	City employees	emergency management - hurricane preparedness	all Largo Employees	10/31/2019	1/18/2023			Summer Mahr
Largo Fire Rescue	Hurricane Preparedness Messages through Facebook, Twitter, Nextdoor and our City Website	Hurricane preparedness posts on all social media outlets	Social Media	Citizens	emergency management hurricane preparedness, flooding, etc	50,000+	10/31/2019	1/18/2023			Summer Mahr
Largo Fire Rescue	Hurricane Preparedness Presentations	Face to Face Presentations to Largo Citizens on preparedness before, during, and after the storm to various mobile home parks, living communities, organizations, and HOAs	face to face	Citizens	Hurricane Preparedness	2,000	10/31/2019	1/18/2023			Summer Mahr
Largo Fire Rescue	Tornado Drill (Annually in January)	City Staff participates in the Statewide Tornado Drill	Tornado Drill Exercise	City Departments	Tornado Preparedness	all city employees	10/16/2017	1/18/2023	10/31/2019		Summer Mahr
Largo Fire Rescue	Pride in Your Park	educated over 100 mobile home park managers and HOA presidents on the importance of hurricane evacuations and storm preparedness	face to face presentation	mobile home park managers and HOA presidents	Hurricane Preparedness	120	10/31/2019	1/18/2023	10/31/2019		Summer Mahr

**Pinellas County**  
**Local Mitigation Strategy 2022 - 2023**  
**Appendix A, Table A-2 Municipal Outreach Matrix**

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Madeira Beach	Flood Insurance Reminder via City Billboard	Sign urging residents to call the Floodplain Manager regarding flood insurance	Electronic Billboard at City Hall	Residents of Madeira Beach	Flood insurance	500	11/17/2020	1/18/2023	10/27/2021		Susan Portal
Madeira Beach	Letters to owners of properties within repetitive loss areas.	Annual outreach. Education and where to get more information.	USPS - First Class Mail	Owners of repetitive loss properties.	Flood insurance and hurricane/flood preparedness	169	9/19/2014	1/18/2023	10/20/2022		Susan Portal
Madeira Beach	Library Educational Material	Above the Flood, NFIP, Substantially Damaged Building, Before and After Disasters, Coastal construction manual, Elevated residential structures, Engineering principles and practices, Floodproofing non-residential structures, Requirements for buildings located in flood zone, Guide to retrofitting, Mitigation of Flood and Erosion, Non-Residential floodproofing, Protecting Utilities, Protecting floodplain resources, Reducing damage, Reducing losses, Taking Shelter	Gulf Beaches Library circulation and electronic versions at <a href="http://www.fema.gov/library">www.fema.gov/library</a>	Citizens and visitors	Flooding issues, emergency preparedness, and evacuation. Access to property after the event.	500	10/6/2016	1/18/2023	11/4/2021		Susan Portal
Madeira Beach	Brochure – A Guide to Flood Mitigation	Brochures	Displayed in (3) public locations in town	Citizens and visitors	What is Mitigation, Build responsibly and protect Natural Floodplain Resources	500	10/6/2016	1/18/2023	11/4/2021		Susan Portal
Madeira Beach	Brochure – Did you know homeowner’s insurance does not cover a flood?	Brochures	Displayed in (3) public locations in town	All residents in high risk flooding areas and tourists.	Did you know homeowner’s insurance does not cover a flood? Insure your property against flooding.	500	10/6/2016	1/18/2023	10/6/2016		Susan Portal
Madeira Beach	Brochure - Why do I Need Flood Insurance?	Brochures	Displayed in (3) public locations in town	All residents in high risk flooding areas and tourists.	Benefits of flood insurance.	500	11/17/2020	1/18/2023	11/26/2021		Susan Portal
Madeira Beach	Brochure – A guide to flood safety.	Brochures	Displayed in (3) public locations in town	All residents in high risk flooding and tourists	A guide to flood safety. Know your hazard. Turn around, don’t drown. Flood watch vs. flood warning, flood safety tips.	500	10/6/2016	1/18/2023	10/6/2016		Susan Portal
Madeira Beach	Brochure – Did you know homeowner’s insurance does not cover a flood?	Brochures	Displayed in (3) public locations in town	All residents in high risk flooding areas and tourists.	Did you know homeowner’s insurance does not cover a flood? Insure your property against flooding.	500	10/6/2016	1/18/2023	10/6/2016		Susan Portal

**Pinellas County**  
**Local Mitigation Strategy 2022 - 2023**  
**Appendix A, Table A-2 Municipal Outreach Matrix**

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Madeira Beach	Director's Annual Letter and "Your Guide to Flood Information in Madeira Beach" brochure	Letter and Brochure	Mass mail to all Madeira Beach property owners	Information to residents, what to know about Madeira Beach's efforts relative to special flood hazard areas.	Protect your property from flooding, know your risk, building in floodplain, flood insurance	4,000	11/17/2020	1/18/2023	8/19/2022		Susan Portal
Madeira Beach	Post Disaster Consumer Tips	Brochures	Displayed in (3) public locations around town	All residents in high risk flooding areas and tourists.	Flooding, natural disasters, how to stay safe, Turn around don't drown. How to stay safe and what to do and what not to do during a natural disaster	500	10/6/2016	1/18/2023	10/6/2016		Susan Portal
Madeira Beach	Elevation Certificates	EC's available to view or download	Website	All residents of Madeira Beach and potential property owners		250	11/17/2020	1/18/2023	5/2/2022		Susan Portal
Madeira Beach	NFIP, FP Mgmt, Find your Flood Zone, Be Prepared, Know your Evacuation Zone, Directors Annual Letter, Beach Flood Facts, Flood Map FIRM, Agency Resources, Publications list, Get Flood Insurance, FEMA mapped flood information, Limit moderate wave action, Monthly advice for residents	Educational material and links to information and agencies	Website	All residents of Madeira Beach	Flooding/storm preparation and mitigation	500	11/17/2020	1/18/2023	11/26/2021		Susan Portal
Madeira Beach	Annual Hurricane Expo	Onsite event with vendors, speakers, and guest meteorologist	Public Meeting/YouTube	Citizens of Madeira Beach	Hurricane preparedness, including evacuation procedures, securing property, etc.	750	10/19/2021	1/18/2023	4/9/2022		Susan Portal
Madeira Beach	Monthly updates	Social Media flooding awareness	Social Media	Citizens	Flooding Preparedness, Flood Insurance	1,000	10/27/2021	1/18/2023			Susan Portal
Madeira Beach	Site Visits	Staff meet with property owners upon request to assist with property hazard mitigation and flooding issues	Site Visits	Citizens	Flooding preparedness, mitigation	<100	11/4/2021	1/18/2023			Susan Portal
Madeira Beach	Annual LMS Report to Board of Commissioners	City staff presents the annual LMS, floodplain management planning update to BOC	Presentation to BOC at public meeting, on YouTube, and through Spectrum (cable)	Citizens	Flooding preparedness, mitigation	200	11/4/2021	1/18/2023			Susan Portal
Madeira Beach	Storm Drain Markers	Markers on every storm drain in City	Markers	Citizens	Only rain down the drain	4,000	11/4/2021	1/18/2023			Susan Portal
Madeira Beach	Emergency Management Meetings	Annual training, post-disaster recovery	Meeting and neighborhood assessment	Impacted residents	Flood resources	~500	11/4/2021	1/18/2023			Susan Portal
North Redington Beach	NRB News	Annual Newsletter	Mailing	Municipality	Protect your property from the hazard, know your risk, insure your property, public safety information, build responsibility, protect natural functions, make your family/ business disaster plan, hurricane information	1,150	8/20/2014	1/18/2023			Renee Schmader

**Pinellas County**  
**Local Mitigation Strategy 2022 - 2023**  
**Appendix A, Table A-2 Municipal Outreach Matrix**

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North Redington Beach	You live in a Special Flood Hazard Area	Annual Flyer	Mailing	Municipality	Protect your property from the hazard, know your risk, insure your property, public safety information, build responsibility, protect natural functions, make your family/ business disaster plan, hurricane information	1,150	8/20/2014	1/18/2023			Renee Schmader
North Redington Beach	Town Website	Website	Website	Municipality	Protect your property from the hazard, know your risk, insure your property, public safety information, build responsibility, protect natural functions, make your family/ business disaster plan, hurricane information	1,150	8/20/2014	1/18/2023			Renee Schmader
North Redington Beach	After the Flood	Door Flyer	Hand Delivery after a flood event	Municipality	Protect your property from the hazard, know your risk, insure your property, public safety information, build responsibility, protect natural functions, make your family/ business disaster plan, hurricane information.	1,150	8/20/2014	1/18/2023			Renee Schmader
Oldsmar	Building permit brochure with SFHA map	Information for construction within the SFHA	Brochure/Publication	Floodplain Residents	Build Responsibly	8,500	10/16/2014	1/18/2023	12/15/2017		Tatiana Childress
Oldsmar	Surviving the Storm - Pinellas County Hurricane Guide	Hurricane Guide available at City facilities	Brochure/Publication	County-wide	General Guidelines on Disaster Preparedness	920,000	10/16/2014	1/18/2023	12/15/2017		Tatiana Childress
Oldsmar	Storm Surge Street Signs	Storm Surge Signs on Stop Signs indicating approx surge level per location	Multimodal	Municipality	Know your risk	100,000	11/29/2022	1/18/2023	11/30/2022		Debb Vitraelli
Oldsmar	Flood information links on website	Links to flood information such as FEMA and Pinellas County	Website	Municipality	Protect your property from the hazard(s)	14,000	10/16/2014	1/18/2023	12/15/2017		Steven Everitt
Oldsmar	Flood Zone Map Flyer	Map of the flood zones in the City	Mailing	Floodplain Residents	Know your risk	8,500	10/16/2014	1/18/2023	12/15/2017		Steven Everitt
Oldsmar	Mandatory Purchase of Insurance Flyer	Information about who is obligated under law to purchase flood insurance	Mailing	Floodplain Residents	Insure your property for your hazard(s)	8,500	10/16/2014	1/18/2023	12/15/2017		Tatiana Childress
Oldsmar	Alert Pinellas notice on utility bills	Service that notifies residents of disaster warnings	Mailing	Municipality	Public Safety Information (ex. Turn Around Don't Drown)	14,000	10/16/2014	1/18/2023	12/15/2017		Tatiana Childress



**Pinellas County**  
**Local Mitigation Strategy 2022 - 2023**  
**Appendix A, Table A-2 Municipal Outreach Matrix**

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Oldsmar	NOAA Extreme Weather information sheet	Information about extreme weather	Brochure/ Publication	Municipality	Public Safety Information (ex. Turn Around Don't Drown)	14,000	10/16/2014	1/18/2023	12/15/2017		Tatiana Childress
Oldsmar	Hurricane Season signs on Welcome to Oldsmar signs	Signs placed so motorists know it is hurricane season	Signage	Motorists	Make your Family/ Business Disaster Plan	70,000	10/16/2014	1/18/2023	12/15/2017		Tatiana Childress
Oldsmar	Hurricane planning sign on City Hall sign	Sign placed for motorists to remind them to get an evacuation plan	Signage	Motorists	Make your Family/ Business Disaster Plan	55,000	10/16/2014	1/18/2023	12/15/2017		Tatiana Childress
Oldsmar	Hurricane season notice in Oldsmar Community Online News	General hurricane season begins information	Newsletter	Municipality	Public Safety Information (ex. Turn Around Don't Drown)	20,000	10/16/2014	1/18/2023	12/15/2017		Tatiana Childress
Oldsmar	Hurricane season notices submitted to local Patch online publication	General hurricane season begins information	Digital	Municipality Citizens	Public Safety Information (ex. Turn Around Don't Drown)	20,000	11/30/2021	1/18/2023			Debb Vitraelli
Oldsmar	Information distributed through Upper Tampa Bay Chamber of Commerce	Hurricane information given to business owners	Newsletter	Businesses	Make your Family/ Business Disaster Plan	350	10/16/2014	1/18/2023	12/15/2017		Tatiana Childress
Oldsmar	Elevation Certificates on website	An available elevation certificates on website for download	Website	Floodplain Residents	Build Responsibly	8,500	10/16/2014	1/18/2023	12/15/2017		Tatiana Childress
Oldsmar	Letter sent to all lenders in City	Flood zone map flyer and mandatory insurance flyer included	Mailing	Lending	Know your risk	8	10/16/2014	1/18/2023	12/15/2017		Tatiana Childress
Oldsmar	Letter sent to all real estate agents in City	Flood zone map flyer and mandatory insurance flyer included	Mailing	Real Estate Agents	Know your risk	42	10/16/2014	1/18/2023	12/15/2017		Tatiana Childress
Oldsmar	Letter sent to all insurance companies doing business in the City	Flood zone map flyer and mandatory insurance flyer included	Mailing	Insurance	Insure your property for your hazard(s)	200	10/16/2014	1/18/2023	12/15/2017		Tatiana Childress
Oldsmar	Neighborhood Association	Public meeting with local HOA representatives	In-person	HOA Representatives, Property Management	Hurricane and Flooding Education	10	12/23/2020	1/18/2023	12/15/2017		Tatiana Childress
Oldsmar	Public Meeting	Public meeting with Subdivision residents	In-person	Subdvision residents	Infrastructure and Draining Improvements, Flood Awareness	17	12/23/2020	1/18/2023	12/15/2017		Tatiana Childress
Oldsmar	Website - City News	Know Your Zone	Digital	Website Visitor	Know Flood Zone, Know Evacuation Zone	150,000 visitors	12/23/2020	1/18/2023	12/23/2020		Debb Vitraelli
Oldsmar	Website - City News	Hurricane Preparedness	Digital	Website Visitor	County Resource Guide available online.	150,000 visitors	12/23/2020	1/18/2023	12/23/2020		Debb Vitraelli
Oldsmar	Website - City News	Alert Pinellas	Digital	Website Visitor	Sign up for Alert Pinellas via Bitly link	4,513 clicks	12/23/2020	1/18/2023			Debb Vitraelli
Oldsmar	Website - Emergency Management	Various tools & resources to assist before, during, & after a disaster strikes.	Digital	Website Visitor	Alert Pinellas, Know Your Zones, Hurricane Preparedness, Flood Disaster Preparedness	150,000 visitors	12/23/2020	1/18/2023	12/23/2020		Debb Vitraelli
Oldsmar	Website	Online Services - Disaster Prep Button	Digital	All Users	Page featured links for Flood Risk, Emergency Notifications, Storm Awareness	1,443 Know Your Flood Risk, 630 Distaster Preparedness, 418 Flood Facts		1/18/2023			Debb Vitraelli



**Pinellas County**  
**Local Mitigation Strategy 2022 - 2023**  
**Appendix A, Table A-2 Municipal Outreach Matrix**

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Oldsmar	Experience Oldsmar magazine	Tri-annual publication for community with featured segments	Print	City Residents, General Public	ALERT Pinellas, Know Your Zones, Hurricane Preparedness, Discounted Flood Insurance, FEMA Flood Zone Designations	Per publication: 6,500 residents direct mail, 500 distributed to City Hall, Library, Rec Center	12/23/2020	1/18/2023	12/23/2020		Debb Vitraelli
Oldsmar	Tornado Drill	City Staff participates in Tornado Drill	Tornado Drill Exercise	City Departments	Tornado Preparedness	all city employees	11/30/2021	1/18/2023			Debb Vitraelli
Oldsmar	Florida Severe Weather Week	Social Media campaign promoting proper preparation and resouces for severe weather	Daily topics posted on City Facebook Page, Twitter, Instagram	General public	Lightning, Marine Hazards & Rip Currents, Thunderstorms, Tornadoes, Hurricanes, Flooding, Temperature	17,585 Facebook, 3,750 Twitter, Instagram 1,750	11/30/2021	1/18/2023			Debb Vitraelli
Oldsmar	Hurricane Preparedness Week	Social Media campaign promoting proper hurricane preparations and resources	Daily topics posted on City Facebook Page, Twitter	General public	Flood Insurance, Evacuation Plan, Hurricane Guide, Strengthen Your Home, Have a Written Plan, Help Neighbors	17,580 Facebook, 3,696 Twitter	12/23/2020	1/18/2023	12/23/2020		Debb Vitraelli
Oldsmar	ALERT Pinellas promotion	Social Media campaign promoting sign up for emergency notifications	City Facebook Page, Twitter	General public	Free Service, Reminders pre-storm events, multiple receipt options, weather alerts	17,580 Facebook, 3,696 Twitter	12/23/2020	1/18/2023	12/23/2020		Debb Vitraelli
Oldsmar	Fertilizer Ban	Experience Oldsmar Magazine	Mailing, prints distributed at City Hall, Rec Center, Library and Chamber of Commerce	General public	Fertilizer Ban June 1-Sept 30	8,000	11/18/2021	1/18/2023	11/18/2021		Debb Vitraelli
Oldsmar	2nd Friday Downtown	Event hosted by the Upper Tampa Bay Chamber of Commerce	Materials provided in-person to event attendees	General public	Hurricane Preparedness, OldsmarStrong.com magnets	2,000 per event	11/18/2021	1/18/2023			Debb Vitraelli
Oldsmar	Save Our Bay Program	Mayor's Challenge - Vertical Oyster Gardens	City Facebook Page, Twitter, Instagram, Press Releases, City Manager Eblast, private dock owner letters	General public	VOGs help clean bay waters, program partnership with TB Watch	8,000	11/30/2021	1/18/2023			Debb Vitraelli
Oldsmar	Coastal Cleanup	Keep coastal areas and shorelines clean.	City Facebook Page, Twitter, Instagram, Experience Oldsmar Magazine, Eblast	General Public	Participants assigned various coastal plots to clean	35,000	11/30/2021	1/18/2023			Debb Vitraelli
Oldsmar	Climate Resiliency Plan	Provide greater understanding of climate risks.	City Facebook Page, Twitter, Instagram, Experience Oldsmar Magazine, Eblast, website	General Public	Identify perils of flood, educate public on risks, plan for future	35,000	11/30/2021	1/18/2023			Debb Vitraelli
Oldsmar	Mobile Home Park - Public Outreach	In parternship with PCEM, distribution of annual Hurricane Guide to clubhouse	In person	General Public, Mobile Home Owners	Hurricane Preparedness	Approx. 310,000 hits an	11/30/2021	1/18/2023			Debb Vitraelli
Oldsmar	Experience Oldsmar Podcast	Podcast segments released to majority of podcast hosting sites	Digital	General public	Flooding, Mitigation, Hurricane, Natural Disasters, Wind, Water, Lightning	5,000	11/30/2021	1/18/2023			Debb Vitraelli

**Pinellas County**  
**Local Mitigation Strategy 2022 - 2023**  
**Appendix A, Table A-2 Municipal Outreach Matrix**

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Oldsmar	OldsmarStrong.com	Custom URL for Emergency Management	Digital, Marketing Materials	General Public	Emergency Preparedness Resources	Approx. 310,000 hits annually to city website & department pages	11/30/2021	1/18/2023			Debb Vitraelli
Oldsmar	Rain Garden 101	Online Webinar / In-Person Seminar	City Facebook Page, Twitter, Instagram, Press Releases, City Manager Eblast, Organic Garden	General Public	build rain garden to filter stormwater runoff, contribute to erosion control	8,000	11/30/2021	1/18/2023			Debb Vitraelli
Oldsmar	Adopt-A-Street Program	City stormwater system and waterways cleaned via participation.	City Facebook Page, Twitter, Instagram, Experience Oldsmar Magazine, Eblast	General Public	Participants adopt section of City-owned street and play role in maintenance of assets	35,000	11/30/2021	1/18/2023			Debb Vitraelli
Oldsmar	Invasive Fish Roundup	Free fishing day to round up invasive species in local waterways	City Facebook Page, Twitter, Instagram, Experience Oldsmar Magazine, Eblast	General Public	Help catch invasive species of fish to clean up ecosystem.	35,000	11/30/2021	1/18/2023			Debb Vitraelli
Oldsmar	St. Petersburg Drive Complete Streets Public Meeting	Public Meeting for stakeholders	In Person	Residents of Project Impact areas	Project overview for stormwater, streetscaping, drainage	1,500	11/30/2021	1/18/2023			Debb Vitraelli
Oldsmar	Citizens Academy	Education on City Services, Disaster Preparedness, Flood Zones/Insurance	In Person	Residents Enrolled	Promote emergency, mitigation efforts of City staff	50/class	11/29/2022	1/18/2023	11/30/2022		Debb Vitraelli
Oldsmar	Florida City Government Week	Florida City Government Week	City Facebook, Twitter, Instagram	General Public	Promote emergency, mitigation efforts of City staff	17,585 Facebook, 3,750 Twitter, Instagram 1,750	11/30/2021	1/18/2023			Debb Vitraelli
Oldsmar	Proclamation - Florida City Government Week	Florida City Government Week	In Person at City Council Meeting	General public	Celebrate Florida City Government Week promoting City preparedness for emergencies	8,000	11/30/2021	1/18/2023			Debb Vitraelli
Oldsmar	New Employee Orientation	their responder status within the City and expectation to prepare their homes and families	Video On-Demand on City Intranet	City Employees	Emergency preparedness-hurricanes	150	11/30/2021	1/18/2023			Debb Vitraelli
Oldsmar	Proclamation - Fire Prevention Week	Fire Prevention Week	In Person at City Council Meeting	General public	Fire Prevention Week promoting preparedness for emergencies and home preparations	8,000	11/30/2021	1/18/2023			Debb Vitraelli
Oldsmar	Oldsmar in a Minute Video/Podcast	Weekly Notifications, Important Storm Notices	City Social Media, Podcast Deployment	General Public	Emergency Preparedness, Reminders	15,000	11/29/2022	1/18/2023	11/30/2022		Debb Vitraelli
Oldsmar	City Monthly E-Newsletter	Disaster Preparedness, Flood Insurance,	Subscribers	General Public	Emergency Preparedness, Flood Insurance	3,000 per month	11/29/2022	1/18/2023	11/30/2022		Debb Vitraelli

**Pinellas County**  
**Local Mitigation Strategy 2022 - 2023**  
**Appendix A, Table A-2 Municipal Outreach Matrix**

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Pinellas Park	Country in the Park (Annual event in March)	Annual Music Festival and Business Exposition.City distributes aboutfloodplain and emergency management marketing pieces and brochures annually at this event.	Community Event	County-wide	Hurricane, Storm, and Emergency Preparedness; Protect your family and property from the hazard(s) and to consider insurance	9000	3/15/2014	1/18/2023	10/29/2019		Suzanne Boisvert
Pinellas Park	National Preparedness Month (Annually in September)	Social Media Campaign promoting disaster preparedness	Daily preparedness topics posted on City and Fire Dept Facebook pages; posts onNextdoor w/ links to ready.gov.	County-wide / General Public	Various topics from ready.gov on disaster preparedness.	10,000 followers on City FB; 6,000 followers on Fire FB; 6,000 registered users on Nextdoor	12/10/2018	1/18/2023	10/29/2019		Suzanne Boisvert
Pinellas Park	PPFD Open House / Preparedness Expo (Annual event in May)	Pinellas Park EIM and operateFDEM "Kids Get A Plan" interactive display, promote Know Your Zone, Alert Pinellas, etc.	Community Event	City of Pinellas Park and surrounding communités	Information on evacuation zones, emergency notification, storm preparedness, recovery, and mitigation.	Approximately 1,500 attendees	10/16/2017	1/18/2023	10/29/2019		Suzanne Boisvert
Pinellas Park	Pinellas County All Hazards Guide Distribution (annually throughout hurricane season)	Newspaper type guide to all hazard preparedness and recovery	Available in city buildings and distributed at community events.	Municipality	All hazards preparedness and recovery information	20,000	12/10/2018	1/18/2023	10/29/2019		Suzanne Boisvert
Pinellas Park	National Night Out Event (Annually in October)	Annual event to bring fire responders and citizens together.Emergency Management and City Planning promoting Know Your Zone, Alert Pinellas, floodplain management; 200+ FloodWatch brochures and information on emergency preparedness.	Community Event	Municipality	Protect your property from the hazard(s), storm preparedness,evacuation plan(s), and emergency notification.	City population is about 53,098	10/16/2017	1/18/2023	10/29/2019		Suzanne Boisvert
Pinellas Park	National Hurricane Preparedness Week (Annual campaign in May)	media campaign, daily posts on Facebook, Nextdoor, and City website, Chamber of Commerce Meetings and brochure distribution	Municipality, local businesses	City-wide	Hurricane preparation	City website experiences about 400,000 hits annually	10/3/2016	1/18/2023	10/29/2019		Suzanne Boisvert
Pinellas Park	Hurricane Preparedness Month Postcard (Annual mailout in April- May)	Annual hurricane preparedness postcard mailed to city utility customers	Mailing	Municipality	Hurricane Preparedness	35,000 residents	10/16/2017	1/18/2023	10/29/2019		Suzanne Boisvert
Pinellas Park	Tornado Drill (Annually in January)	City Staff participates in the Statewide Tornado Drill	Tornado Drill Exercise	City Departments	Tornado Preparedness	534 employees	10/16/2017	1/18/2023	10/29/2019		Suzanne Boisvert
Pinellas Park	Hurricane Preparedness Table- Top Exercise (Annual)	Hurricane preparedness, response and recovery exercise	Table Top Discussion	City Department heads/directors	Hurricane Preparedness for the City	50 persons	10/16/2017	1/18/2023	10/29/2019		Suzanne Boisvert
Pinellas Park	Employee Storm Preparedness(ongoing)	Review storm prep/response procedures with new employees	Presentation	New employees	Storm preparedness, response, recovery responsibilities	2016-2019: 300 (Average 75 per year)	12/10/2018	1/18/2023	10/29/2019		Suzanne Boisvert

**Pinellas County**  
**Local Mitigation Strategy 2022 - 2023**  
**Appendix A, Table A-2 Municipal Outreach Matrix**

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Pinellas Park	Social media outreach (Facebook, Twitter, Nextdoor) - ongoing	Posts to city and fire department social media sites:Facebook, Twitter and Nextdoor	Social Media	Municipality and county-wide	Communication about road closures, flooding, storm updates, evacuation information, etc.	10,000 followers on City FB; 6,000 followers on Fire FB; 6,000 registered users on Nextdoor;	10/16/2017	1/18/2023	10/29/2019		Suzanne Boisvert
Pinellas Park	Water Bill Flyer (Annual)	Annual flood hazards flyer sent in water bills to ALL businesses and residences served by City water.	Flyer in City water bills.	Municipality - businesses and residents.	Target message is Alert Pinellas (flood, hurricanes), Know Your Zone, flood insurance, and pollution of waterways (illegal dumping of trash and chemicals) and storm preparation.	City Population is53,098	9/29/2020	1/18/2023	9/29/2020		Derek Reeves
Pinellas Park	Repetitive Loss Area Mailing	Mailing of a letter and a Tip Sheet regarding living within a RLA	Mailing	Repetitive Loss Areas	Know your hazard (flood) and to consider insurance	49	6/1/2014	1/18/2023	10/29/2019		Suzanne Boisvert
Pinellas Park	Flood Hazards and Property Protection	Information for residents: Elevation certificates, flood insurance, CRS, FIRM, Mandatory insurance purchase, insurance overview	City of Pinellas Park Website with links	Municipality	Insure and protect your property from flood hazards	Approximately 500,000 hits annually to city website and department pages.	8/14/2014	1/18/2023	10/29/2019		Suzanne Boisvert
Pinellas Park	Stormwater Runoff: Only Rain Down the Drain	Link to Pinellas County Environmental Management - preventing storm water pollutants, protecting storm drains, storm placard information	City of Pinellas Park Website-links to Pinellas County	Municipality	Protect natural functions (floodplain; habitat; etc.)	Approximately 500,000 hits annually to city website and department pages.	8/14/2014	1/18/2023	10/29/2019		Suzanne Boisvert
Pinellas Park	City of Pinellas Park Website - Emergency Management	City of Pinellas Park Emergency Managementwith links to county, state, and federal emergency management websites	City of Pinellas Park Website	County-wide	Emergency preparedness and public safety informationInformation to help Florida residents and businesses prepare for and recover from hurricanes and other disasters.	Approximately 500,000 hits annually to city website and department pages.	12/10/2018	1/18/2023	10/29/2019		Suzanne Boisvert
Pinellas Park	Pinellas Park Home Depot Home Preparedness Events	Home Depot educational events to bring first responders and citizens together. City Emergency Management, Fire, Police, etc -booths and demonstrations. Children's workshop, handouts,links to emergency topics.	Community Event:Children's Workshop.Booth with handouts and laptop with links to Emergency Topics	General public	Protect your property from the hazard(s), storm preparedness and evacuation plan(s)Community Outreach-CPR demo, AlertPinellas and Know Your Zone education	250 attendees	10/3/2016	1/18/2023	10/29/2019		Suzanne Boisvert
Pinellas Park	Habitat for Humanity - Disaster Preparedness for Homeowner Candidates (Quarterly)	Classes held quarterly for Habitat homeowner candidates on disaster preparedness. Attendees earn credits as part of homeownership program.	Classroom presentation	Habitat for Humanity homeowner candidates.	Preparing your home against wind, flood or other damage; making a plan; emergency notification; evacuation; etc.	25 per session / approx 100 annually	10/29/2019	1/18/2023	10/29/2019		Suzanne Boisvert
Pinellas Park	Hurricane Preparedness Public Education - MHP Residents (Ongoing)	Hurricane preparedness education to mobile home park residents within Pinellas Park's jurisdiction	Presentation/Education	Mobile Home Park Residents	hurricane preparedness	Approx. 3000	10/3/2016	1/18/2023	10/29/2019		Suzanne Boisvert

**Pinellas County**  
**Local Mitigation Strategy 2022 - 2023**  
**Appendix A, Table A-2 Municipal Outreach Matrix**

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Pinellas Park	Hurricane Preparedness Public Education (Ongoing)	Hurricane preparedness education to residents of Over-55 communities within Pinellas Park's jurisdiction	Presentation/Educatoion	Over-55 Community Residents (Mainlands of Tamarac)	hurricane preparedness	Approx. 8000	10/3/2016	1/18/2023	10/29/2019		Suzanne Boisvert
Pinellas Park	National Hurricane Preparedness Week Proclamation (Annually in May)	Presentation by City staff in front of televised City Council on hurricane preparedness and storm safety	Presentation	Municipality	Hurricane Preparedness	City population is 53,098	10/16/2017	1/18/2023	10/29/2019		Suzanne Boisvert
Pinellas Park	Municipal Emergency Management Coordinators' Meeting (Quarterly)	Presentation and discussion of local emergency management topics, best practices, and recommendations for improvements.	Attendance at quarterly meetings	City and Fire District, emergency management coordinators in Pinellas County	Storm Preparation and Safety	50 persons	10/16/2017	1/18/2023	10/29/2019		Suzanne Boisvert
Pinellas Park	Storm Preparation and Safety Event-Community Outreach - Faith Based Community (2017)	Handouts on disaster preparedness, information provided on Know Your Zone and Alert Pinellas.	Oureach Event at Praise Cathedral Church	Parishioners/ city residents	Storm Preparation and Safety	500 persons	10/16/2017	1/18/2023	10/29/2019		Suzanne Boisvert
Pinellas Park	4th of July Event, Kenneth City Parade and Park (2017)	Discussion and handouts of emergency management brochures	Attendance at 4th of July Festival	County-wide	Storm Preparation and Safety	10,000 persons	10/16/2017	1/18/2023	10/29/2019		Suzanne Boisvert
Pinellas Park	Severe Weather Awareness Week Campaign (Annually in January)	Media Campaign, daily posts on Facebook, NextDoor, and City Website	Municipality	City-wide	Severe Weather Awareness and Safety	City website experiences about 500,000 hits annually	10/16/2017	1/18/2023	10/29/2019		Suzanne Boisvert
Pinellas Park	Pinellas Park/Gateway Chamber of Commerce- Disaster Prep for Business Community (Annually in May)	Presentation to chamber of commerce members on disaster preparedness for small businesses.	Presentation	Members of Chamber of Commerce-Pinellas Park/Gateway	Information on preparing your business for disasters; having a continuity plan; recovery after a disaster.	100	10/29/2019	1/18/2023	10/29/2019		Suzanne Boisvert
Pinellas Park	Storm Preparedness for Seniors: Independent Living Apartments - St. Giles Manor and St. Giles Manor 2 (Annually)	Presentation by City Emergency Management to the residents of both properties on hurricane preparedness	Presentation by City Emergency Management to residents	Senior Citizens	Hurricane Preparedness	300	10/16/2017	1/18/2023	10/29/2019		Suzanne Boisvert
Pinellas Park	Mobile Home Park Hurricane Preparedness Door Hanger Project (Countywide Initiative-Annually)	Distribution of door hangers to mobile home park residents. Project is a county-wide initiative to reach all mobile home park residents.	Door to door distribution	Mobile home park residents - English and Spanish speaking.	Storm preparation, evacuation, emergency notification.	20 Parks/3700 Units	10/29/2019	1/18/2023	10/29/2019		Suzanne Boisvert
Pinellas Park	Pinebrook Park Event (2018)	Promoting AlertPinellas and Know Your zone to neighborhood residents	Community Event	Residents or Pinebrook Park neighborhood	Hurricane Season Preparedness	300	12/10/2018	1/18/2023	10/29/2019		Suzanne Boisvert
Pinellas Park	Smoke Alarm Sweep with American Red Cross (2018)	Neighborhood smoke alarm install with fire safety and hurricane preparedness outreach	Community Event	Residents of Mainlands 3 Community	Fire Safety and Hurricane Safety	400	12/10/2018	1/18/2023	10/29/2019		Suzanne Boisvert
Pinellas Park	Storm Prep/Boy Scouts (2018)	Educational Outreach	Community Presentation	Members of Boy Scout Trooop 337	Emergency preparedness and public safety information	20	12/10/2018	1/18/2023	10/29/2019		Suzanne Boisvert



**Pinellas County**  
**Local Mitigation Strategy 2022 - 2023**  
**Appendix A, Table A-2 Municipal Outreach Matrix**

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Pinellas Park	Hurricane Expo at Big Storm Brewery (2018)	Educational Outreach	Community Event	Citizens of Pinellas Park and surrounding communities	Hurricane preparedness before, during, after storm.	200	12/10/2018	1/18/2023	10/29/2019		Suzanne Boisvert
Pinellas Park	FEMA Flood Risk Open House (2018))	Open house for residents to learn about flood risk.	Community Event with Pinellas County	County-wide	Learn how to protect yourself and property from flood risk.	750	12/10/2018	1/18/2023	10/29/2019		Suzanne Boisvert
Redington Beach	Quarterly Newsletter	Newsletter with flood info	Email blast	Residents of Redington Beach	Protect your property from flooding/flood insurance info	1400	14th August 2014	1/18/2023	9/16/2020		Andrea Gamble
Redington Beach	Repetitive loss letters	Letters to all property owners in flood area (annual)	Individual mailings	residents in areas where floods occurred	Contact town with mitigation or grant requests	400	9/16/2020	1/18/2023	9/16/2020		
Redington Beach	Letters to Realtors, Insurance agents	Letter and insert informing local realtors and insurance agents about town's help	Individual mailings to local agents, realtors	clients of these realtors & agents	Town's assistance available to new clients or buyers	50	9/16/2020	1/18/2023	11/25/2019		
Redington Beach	Program for Public Information (PPI) (Multi-jurisdictional)	Quarterly meetings	Multi-Media	Residents of Redington Beach	All Subjects Multi-Hazard (ex. Turn around Don't Drown)	1400	9/16/2020	1/18/2023	5/29/2020		
Redington Beach	Hurricane Table	Table with Informative Brochures	Table set up in lobby	Anyone who enters town hall	Preparation for, awareness of, mitigation, insurance for flood events	500	9/16/2020	1/18/2023	6/23/2020		
Redington Beach	Flood Zone Map	GIS Map	Website	Current and Potential Residents of Redington Beach	Protect natural functions (floodplain; habitat; etc.)	1400	9/16/2020	1/18/2023	9/16/2020		
Redington Shores	Hurricane Preparedness Workshop	Panel of experts to share best practices for hurricane preparedness	Webinar & in-person meeting	Town residents	Make your Family/ Business Disaster Plan	2,500	8.25/14	1/18/2023	10/29/2020		Brad Dykens
Redington Shores	Annual Newsletter	Newsletter with flood info 2X per year	Posted on website, distributed by everbridge and social media. Printed copies distributed to condos, hotels, and local businesses.	Town residents	What Town residents should know about flood ins. & safety	2,200	8/25/2014	1/18/2023	10/29/2020		Traci Cain
Redington Shores	Repetitive loss letters	Letters to all property owners in flood area (twice a year)	Individual mailings	residents in areas where floods occurred	Contact town with mitigation or grant requests	600	8/25/2014	1/18/2023	10/29/2020		Steve Andrews
Redington Shores	Hurricane/Flood information table	Table of over 50 Informative Brochures	Table set up in lobby. Materials refreshed as needed.	Anyone who enters town hall	Preparation for, awareness of, mitigation, insurance for flood events	1,000	8/25/2014	1/18/2023	10/29/2020		Steve Andrews
Redington Shores	Letters to Realtors, Insurance agents	Letter and insert informing local realtors and insurance agents about town's help	Individual mailings to local agents, realtors	clients of these realtors & agents	Town's assistance available to new clients or buyers	unknown	8/25/2014	1/18/2023	10/29/2020		Steve Andrews
Redington Shores	Town of Redington Shores website-Flood and Hurricane pages	Website Flood and Hurricane information and links to other sites.	Website available to the public. Reviewed annually before hurricane season and revised as necessary.	any interested residents	Prevention, preparedness, and mitigation strategies for hurricanes and flood.	unknown	8/25/2014	1/18/2023	10/29/2020		Steve Andrews
Redington Shores	Program for Public Information (PPI)	Meetings to create and oversee Outreach Program	Multi-Media	Municipality	All Subjects Multi-Hazard (ex. Turn around Don't Drown)	5,000	8/30/2016	1/18/2023	10/29/2020		Steve Andrews
Safety Harbor	Hurricane Evacuation Zone Map	GIS Map	Website	Municipality	Make your Family/ Business Disaster Plan	33,061	11/29/2021	1/18/2023	8/24/2021		Cecilia Chen

**Pinellas County**  
**Local Mitigation Strategy 2022 - 2023**  
**Appendix A, Table A-2 Municipal Outreach Matrix**

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Safety Harbor	Quarterly newsletter	Outreach to residents	Newsletter	Municipality	Protect your property from the hazard(s)	17,200	11/29/2021	1/18/2023	8/24/2021		Cecilia Chen
Safety Harbor	Flood Zone Map	GIS Map	Website	Municipality	Protect natural functions (floodplain; habitat; etc.)	17,200	11/29/2021	1/18/2023	8/24/2021		Cecilia Chen
Safety Harbor	Social Media	Outreach to residents via social media platforms (Facebook, Twitter, Instagram, YouTube, Nextdoor)	Social Media	Municipality	Communication about disaster preparedness, storm updates, flooding, road closures, evacuation information, public service announcements.	Facebook - 4,000 followers Twitter - 1,047 followers Instagram - 1,712 followers YouTube - 20,573 views	11/30/2020	1/18/2023	11/30/2020		Cecilia Chen
Seminole	Hurricane EXPO 6.7.14	Large venue Community Exposition	Community Event	County-wide	Be prepared, informed and take appropriate actions	2,000	8/25/2014	1/18/2023			Brad Dykens
Seminole	Home Depot Seminole Be Prepared 3.13.14	Large venue Community Exposition	Community Event	Municipality	Make your Family/ Business Disaster Plan	500	8/25/2014	1/18/2023			Brad Dykens
Seminole	Hurricane preparedness 5.29.14	Large group Presentation and table display	Area-Specific Meeting	Hurricane Vulnerable Seniors	Make your Family/ Business Disaster Plan	100	8/25/2014	1/18/2023			Brad Dykens
Seminole	Redington Shores Hurricane preparedness discussion 5.29.14	Large group Presentation and discussion video conference with community	Webinar/E-Town Hall Meeting	Municipality	Make your Family/ Business Disaster Plan	2,500	8/25/2014	1/18/2023			Brad Dykens
Seminole	Neighborly Senior Center 6.16.14	Group presentation	Area-Specific Meeting	Hurricane Vulnerable Seniors	Make your Family/ Business Disaster Plan	50	8/25/2014	1/18/2023			Brad Dykens
Seminole	Heritage Presbyterian Village 6.17.14	Group Presentation	Area-Specific Meeting	Hurricane Vulnerable Seniors	Make your Family/ Business Disaster Plan	200	8/25/2014	1/18/2023			Brad Dykens
Seminole	Seminole ELKS 8.17.14	Group Presentation	Area-Specific Meeting	Floodplain Residents	Make your Family/ Business Disaster Plan	300	8/25/2014	1/18/2023			Brad Dykens
South Pasadena	Hurricane Presentation	Presentation to residents of large apartment complex – Bay Island Condominiums	Area-Specific Meeting on Hurricane Preparedness	Board members	Evacuation Planning	10	12/11/2018	1/18/2023	12/11/2018	Review	David Mixson
South Pasadena	Fire Station Open House	Informational table staffed by PCEM. Know Your Zone and Disaster Preparedness.	Information and Print	Municipal Residents and Business Owners	All Hazards EM Guide, Know Your Zone, Evacuation Planning	250	12/11/2018	1/18/2023	12/16/2022	Review	David Mixson
South Pasadena	Mass Casualty Drill	Palms of Pasadena Hospital Mass Casualty Drill	Exercise	Hsopital Staff	Mass Casualty Exercise	50	12/11/2018	1/18/2023	12/11/2018	Review	David Mixson
South Pasadena	After Action Review	Palms of Pasadena Emergency Management Stakeholders	Review/Tabletop	Hsopital Staff	Mandatory Patient Evacuation	10	12/16/2022	1/18/2023	12/16/2022	New Entry	David Mixson
South Pasadena	Hurricane Presentation	Presentation to residents of large mobile home complex – Causeway Village Clubhouse	Area-Specific Meeting on Hurricane Preparedness	Hurricane Vulnerable Residents	Make your Family/ Business Disaster Plan	35	12/11/2018	1/18/2023	12/11/2018	Review	David Mixson
South Pasadena	Hurricane Presentation	Presentation to residents of large apartment complex – Bay Island Condominiums	Area-Specific Meeting on Hurricane Preparedness	Hurricane Vulnerable Residents	Make your Family/ Business Disaster Plan	65	12/11/2018	1/18/2023	12/11/2018	Review	David Mixson



**Pinellas County**  
**Local Mitigation Strategy 2022 - 2023**  
**Appendix A, Table A-2 Municipal Outreach Matrix**

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South Pasadena	Hurricane Presentation	Presentation to residents of large apartment complex – Chateau Towers Condominiums	Area-Specific Meeting on Hurricane Preparedness	Hurricane Vulnerable Residents	Make your Family/ Business Disaster Plan	30	12/11/2018	1/18/2023	12/11/2018	Review	David Mixson
South Pasadena	Hurricane Presentation	Presentation to residents of large apartment complex – Lutheran Residences	Area-Specific Meeting on Hurricane Preparedness	Hurricane Vulnerable Residents	Make your Family/ Business Disaster Plan	40	12/11/2018	1/18/2023	12/16/2022	Review	David Mixson
South Pasadena	Hurricane Presentation	Presentation to residents of large apartment complex – Lutheran Residences	Area-Specific Meeting on Hurricane Preparedness	Hurricane Vulnerable Residents	Make your Family/ Business Disaster Plan	40	12/11/2018	1/18/2023	12/16/2022	Review	David Mixson
South Pasadena	All Hazards Preparedness	Hurricane Preapredness Guide 2022	An annual guide to all-hazard planning	Hurricane Vulnerable Residents	Evacuation Planning	400	1/6/2021	1/18/2023	12/16/2022	Review	David Mixson
South Pasadena	Hurricane Presentation	Presentation via the Zoom online platform and City Cable Channel	Area-Specific Meeting on Hurricane Preparedness	Hurricane Vulnerable Residents	Make your Family/ Business Disaster Plan	200	12/16/2022	1/18/2023	12/16/2022	Review	David Mixson
South Pasadena	All Hazards Guide and Mask Giveaway	at City Hall for mask giveaway and All Hazard Guides	An annual guide to all-hazard planning	All City Residents and Business Owners	Stop the Spread (COVID-19) and Hurricane Safety	50	1/6/2021	1/18/2023	12/3/2020	Review	David Mixson
South Pasadena	Hurricane Preparedness	How to Prepare for Hurricane Sesaon	City Newsletter - Summer	All City Residents and Business Owners	Evacuation Planning	250	1/6/2021	1/18/2023	12/16/2022	Review	David Mixson
South Pasadena	Fire Safety & Disaster Preparedness	Winter Home Fire Safety	City Newsletter - Winter	All City Residents and Business Owners	Fire Safety and Hurricane Safety	250	1/6/2021	1/18/2023	12/16/2022	Review	David Mixson
South Pasadena	Flood Awareness Flood Threat/Warning System	City Newsletter	City Newsletter	All City Residents and Business Owners	General information Flood Preparation and Safety	5065	9/10/2021	1/18/2023	9/10/2021	Review	Terri Sullivan
South Pasadena	Risk Rating 2.0	City Newsletter	City Newsletter	All City Residents and Business Owners	General information Flood Preparation and Safety	5065	9/10/2021	1/18/2023	9/10/2021	Review	Terri Sullivan
South Pasadena	Flood Awareness	Website	Website	Properties listed as repetitive loss	General information Flood Preparation and Safety	5065	9/10/2021	1/18/2023	9/10/2021	Review	Terri Sullivan
South Pasadena	Repetitive Loss Areas	Letter	Direct Mailing	Properties located within 13 different repetitive loss areas	General information about grants, flood insurance.	170	9/10/2021	1/18/2023	9/10/2021	Review	Terri Sullivan
St. Pete Beach	Repetitive Loss Areas	Letter	Direct Mailing	Properties located within 13 different repetitive loss areas	General information about grants, flood insurance.	269	10/3/2016	1/18/2023	10/3/2017		Julie Anderson
St. Pete Beach	Flood Awareness	Website	Website	Municipality	General information regarding all aspects of Flood Protection and contacts	10,000	10/3/2016	1/18/2023	10/3/2017		Julie Anderson

**Pinellas County**  
**Local Mitigation Strategy 2022 - 2023**  
**Appendix A, Table A-2 Municipal Outreach Matrix**

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St. Pete Beach	St Pete Beach is Subject to Flooding	Paradise News Insert	Direct Mailing	Municipality	Assistance available, Flood Insurance Rate Maps, Safety Measures, Preparation before the storm, Warning Systems, etc.	10,000	10/3/2016	1/18/2023	10/3/2017		Julie Anderson
St. Pete Beach	Lenders, Insurance and Real Estate Agents	Letter	Direct Mailing	Agents	Grant information, Historic Flood Information, Flood Protection	30	10/3/2016	1/18/2023	10/3/2017		N/A
St. Pete Beach	Hurricane Preparedness Expo	Hurricane preparedness education provided to residents. PCEM, WTSP ch 10 Meteorologist, NWS, Fox 13 Meteorologist	Event	Residents	Be prepared!!	85	5/1/2020	1/18/2023			Kelly Intzes
St. Pete Beach	Hurricane Preparedness	Hurricane preparedness posts on social media	social media	residents	emeregnecy management, hurricane preparedness, etc.	1000	5/1/2020	1/18/2023			Kelly Intzes
St. Pete Beach	Hurricane Preparedness Walk-thru	hurricane preparedness education.Tote bags contained with All hazard guide, flood insurance information, masks,hand sanitizer, 2.1.1. Prize giveaways donated by Home Depot	Event	Residents	Be prepared!!	100	7/12/2020	1/18/2023			Kelly Intzes
St. Petersburg	Flood Brochure	Sent to all residents in Utility bill	Brochure/Publication	Municipality	Know your risk	160k	8/18/2014	1/18/2023	7/15/2019		Hannah Rebholz
St. Petersburg	Flood Brochure	Residents in SFHA	Brochure/Publication	Municipality	Know your risk	46,474	8/18/2014	1/18/2023	9/26/2016		Hannah Rebholz
St. Petersburg	Website	Provides residents with helpful links to services the City and County provide.	Website	Municipality	Know your risk	120k	8/18/2014	1/18/2023	9/26/2016		Hannah Rebholz
St. Petersburg	Guide	Protecting Your Home from Flood Damage	Brochure/Publication	Municipality	Protect your property from the hazard(s)	250	8/18/2014	1/18/2023	9/26/2016		Hannah Rebholz
St. Petersburg	Guide	Federal Disaster Assistance and National Flood Insurance	Brochure/Publication	Municipality	Insure your property for your hazard(s)	250	8/18/2014	1/18/2023	9/26/2016		Hannah Rebholz
St. Petersburg	Guide	Emergency Preparedness Guide	Brochure/Publication	Municipality	Know your risk	250	8/18/2014	1/18/2023	9/26/2016		Hannah Rebholz
St. Petersburg	Flood Brochure	Residents in Repetitive Loss Area	Brochure/Publication	Residents	Know your risk	1,771	12/16/2022	1/18/2023	12/16/2022		Hannah Rebholz
St. Petersburg	Social Media Posts	Social Media Posts to cover preparedness, insurance, risk ect.	Social Media Post	Residents	Know your risk, protect our property, insure.	82.5k	12/16/2022	1/18/2023	12/16/2022		Hannah Rebholz
St. Petersburg	Bus Wrap	Raise awarness and educate residents on where to find information for City Services. First year with bus wraps, starting small with one bus	Bus Wrap	Residents	Be prepared for a hurricane and/or flood event.	260k	12/16/2022	1/18/2023	12/16/2022		Hannah Rebholz
St. Petersburg	Hurricane Preparedness Public Education	Hurricane preparedness education provided to neighborhood/ homeowner associations.	In-person Presentation	Residents – Homeowners associations	Be prepared for a hurricane and/or flood event.	300	9/15/2016	1/18/2023	9/15/2016		Amber Boulding

**Pinellas County**  
**Local Mitigation Strategy 2022 - 2023**  
**Appendix A, Table A-2 Municipal Outreach Matrix**

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St. Petersburg	Hurricane Preparedness Public Education	Hurricane preparedness education provided to churches	In-person Presentation	Residents – faith-based organizations	Be prepared for a hurricane and/or flood event.	300	9/15/2016	1/18/2023	9/15/2016		Amber Boulding
St. Petersburg	Hurricane Preparedness Public Education	Hurricane preparedness education provided to school groups	Seminar/Classroom Instruction	Students (grade school and college)	Be prepared for a hurricane and/or flood event.	150	9/15/2016	1/18/2023	9/15/2016		Amber Boulding
St. Petersburg	EM Business Education Program	Disaster Preparedness for Small Businesses – offered quarterly	Seminar/Classroom Instruction	Businesses	Make your Business Disaster Plan	100	9/15/2016	1/18/2023	9/15/2016		Amber Boulding
St. Petersburg	Emergency Management Fair	City of St. Petersburg Emergency Management Disaster Preparedness	In-person Presentation	Residents, Students	Emergency Management activities (preparedness, mitigation, and response) in the City of St. Petersburg	150	9/15/2016	1/18/2023	9/15/2016		Amber Boulding
St. Petersburg	Evacuation Program for Residents	WRXB radio interview to go over evacuation and preparedness plans for South St. Pete residents	Radio Interview	Residents	How to be prepared and successfully evacuate if ordered.	2000	9/15/2016	1/18/2023	9/15/2016		Amber Boulding
St. Petersburg	Executive/Policy Group ICS Training	Provide high level NIMS/ICS training to City Leaders	Seminar/Classroom Instruction	Staff	How to manage an emergency at the executive/policy group level	30	9/15/2016	1/18/2023	9/15/2016		Amber Boulding
Tarpon Springs	Notice to Repetitive Loss Properties	Direct mail annually	Mailing	Repetitive Loss Properties	Know your risk	124	10/10/2014	1/18/2023	8/3/2020	Annual Flooding /	Megan Araya
Tarpon Springs	Publication Distribution	Surviving the Storm Publication	Publication, Website	Municipality	Know your risk	20,000	10/10/2014	1/18/2023	8/3/2020	Annual Hurricane	Megan Araya
Tarpon Springs	Hurricane Preparedness	Presentation to Board of Commissioners	Presentation to Governing Body, Website, Facebook	Municipality	Public Safety Information (ex. Turn Around Don't Drown)	25,000	10/10/2014	1/18/2023	6/15/2020	Annual Hurricane Outreach &	Scott Young
Tarpon Springs	Hurricane Preparedness	Emergency Management Plan	Presentation to Governing Body	Municipality	Protect your property from the hazard(s)	15,000	10/10/2014	1/18/2023	6/15/2020	Annual Hurricane Outreach &	Scott Young
Tarpon Springs	Hurricane Preparedness	Handout	Brochure, Publication, Website	Municipality	Public Safety Information (ex. Turn Around Don't Drown)	2,500	10/10/2014	1/18/2023	8/3/2020	Annual Hurricane Outreach	Megan Araya
Tarpon Springs	Pinellas County Emergency Management	Website	Website	County-wide	Other (Please enter TARGET MESSAGE directly into cell)	949,827	10/10/2014	1/18/2023	8/3/2020	Annual Hurricane Outreach &	Megan Araya
Tarpon Springs	First Call	Program to contact residents for any type of emergency via cell phone, landline, text and email	Website	Municipality	Public Safety Information (ex. Turn Around Don't Drown)	20,000	10/10/2014	1/18/2023	8/3/2020	Annual Hurricane Outreach	Megan Araya
Tarpon Springs	Emergency Preparedness	Adoption of LMS update: Presentation to Governing Body	Presentation to Governing Body Website	Municipality	LMS Update	1,000	8/11/2020	1/18/2023	8/11/2020	Annual Hurricane Outreach &	Renea Vincent
Tarpon Springs	Emergency Preparedness	Handout	Brochure / Publication	Municipality	Flood Preparation and Safety	5,000	10/19/2016	1/18/2023	8/3/2020	Annual Hurricane Outreach &	Megan Araya
Tarpon Springs	Hurricane Preparedness	Handout	Brochure / Publication	Municipality	Coping with a Flood- Before, During and After	5,000	10/19/2016	1/18/2023	8/3/2020	Annual Hurricane	Megan Araya
Tarpon Springs	Flood Insurance Information	Handout	Brochure / Publication	Municipality	Why You Need Flood Insurance	5,000	10/19/2016	1/18/2023	8/3/2020	Annual Hurricane	Megan Araya
Tarpon Springs	Flood Insurance Information	Handout	Brochure / Publication	Municipality	National Flood Insurance Program Nothing Could Dampen the Joy of Home Ownership...	5,000	10/19/2016	1/18/2023	8/3/2020	Annual Hurricane Outreach	Megan Araya

**Pinellas County**  
**Local Mitigation Strategy 2022 - 2023**  
**Appendix A, Table A-2 Municipal Outreach Matrix**

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Tarpon Springs	Emergency Preparedness	Handout	Brochure / Publication	Municipality	Who is at Risk for Flooding?	5,000	10/19/2016	1/18/2023	8/3/2020	Annual Hurricane	Megan Araya
Tarpon Springs	Emergency Preparedness	Handout	Brochure / Publication	Municipality	Flood: Are You Protected from the Next Disaster?	5,000	10/19/2016	1/18/2023	8/3/2020	Annual Hurricane	Megan Araya
Tarpon Springs	Flood Insurance Information	Handout	Brochure / Publication	Municipality	National Flood Insurance Program: How the NFIP Works	5,000	10/19/2016	1/18/2023	8/3/2020	Annual Hurricane Outreach	Megan Araya
Tarpon Springs	Flood Insurance Information	Handout	Brochure / Publication	Municipality	National Flood Insurance Program: Mandatory Purchase of Flood Insurance Guidelines	5,000	10/19/2016	1/18/2023	8/3/2020	Annual Hurricane Outreach	Megan Araya
Tarpon Springs	Hurricane Preparedness	Handout	Brochure / Publication	Municipality	Be Prepared Checklist	20,000	10/19/2016	1/18/2023	8/3/2020	Annual Hurricane	Megan Araya
Tarpon Springs	Hurricane Preparedness	Website	Website	Municipality	Know Your Evacuation Zone, Pinellas County	20,000	10/19/2016	1/18/2023	8/3/2020	Annual Hurricane	Megan Araya
Tarpon Springs	Hurricane Preparedness	Website	Website	Municipality	Storm Preparation for Debris Removal	20,000	10/19/2016	1/18/2023	8/3/2020	Annual Hurricane	Megan Araya
Tarpon Springs	Hurricane Preparedness	Website	Brochure	Municipality	Hurricane Services for Elderly and Special Needs Residents	20,000	10/19/2016	1/18/2023	8/3/2020	Annual Hurricane Outreach	Megan Araya
Tarpon Springs	Emergency Preparedness	Website	Publication	Municipality	Survival Kit Checklist	20,000	10/19/2016	1/18/2023	8/3/2020	Annual Hurricane	Megan Araya
Tarpon Springs	Emergency Preparedness	Link to website on Emergency Management Page	Website	Municipality	Pinellas County Emergency Management	20,000	10/19/2016	1/18/2023	8/3/2020	Annual Hurricane Outreach	Megan Araya
Tarpon Springs	Emergency Preparedness	Link to website on Emergency Management Page	Website	Municipality	Florida Department of Emergency Management	20,000	10/19/2016	1/18/2023	8/3/2020	Annual Hurricane Outreach	Megan Araya
Tarpon Springs	Emergency Preparedness	Link to website on Emergency Management Page	Website	Municipality	Federal Emergency Management Agency	20,000	10/19/2016	1/18/2023	8/3/2020	Annual Hurricane Outreach	Megan Araya
Tarpon Springs	Flood Insurance Information	Link to website on Emergency Management Page	Brochure / Publication	Municipality	National Flood Insurance Program	20,000	10/19/2016	1/18/2023	8/3/2020	Annual Hurricane Outreach	Megan Araya
Tarpon Springs	Hurricane Preparedness	Link to website on Emergency Management Page	Website	Municipality	National Hurricane Center	20,000	10/19/2016	1/18/2023	8/3/2020	Annual Hurricane Outreach	Megan Araya
Tarpon Springs	Emergency Preparedness	Link to website on Emergency Management Page	Website	Municipality	Tampa Bay Regional Planning Council Emergency Management	20,000	10/19/2016	1/18/2023	8/3/2020	Annual Hurricane Outreach	Megan Araya
Tarpon Springs	Touch A Truck Event	City event, emergency preparedness, education on flood zones, evacuation maps, building code	Brochures, Website, Facebook, Instagram, Twitter	Municipality	FEMA information for residents, building code question availability, evacuation map and flood zone info request	26,000	10/19/2016	1/18/2023	6/1/2019	Annual Hurricane Outreach & Emergency Preparedness	Megan Araya
Tarpon Springs	Lowe's Safety Event	City event, emergency preparedness, safety, education on flood zones, evacuation maps, building code	Brochures, Website, Facebook, Instagram, Twitter	Municipality	FEMA information for residents, building code question availability, evacuation map and flood zone info request	10,000	10/19/2016	1/18/2023	11/1/2019	Annual Hurricane Outreach & Emergency Preparedness	Megan Araya
Tarpon Springs	Hurricane Preparedness	Handout	Publication, Website, Facebook, Twitter	Municipality	Storm Savvy	20,000	10/19/2016	1/18/2023	6/18/2020	Annual Hurricane Outreach &	Megan Araya

**Pinellas County**  
**Local Mitigation Strategy 2022 - 2023**  
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Tarpon Springs	Twitter	Tweets	Social Media	Municipality	Communication about road closures, flooding, storm updates, evacuation information	20,000	10/19/2016	1/18/2023	Ongoing	Annual Hurricane Outreach & Emergency	Megan Araya
Tarpon Springs	Facebook	Posts to City of Tarpon Springs and Fire Dept	Social Media	Municipality	Communication about road closures, flooding,	20,000	10/19/2016	1/18/2023	Ongoing	Annual Hurricane	Megan Araya
Tarpon Springs	Instagram	Posts to City of Tarpon Springs and Fire Dept	Social Media	Municipality	Communication about road closures, flooding,	20,000	10/19/2016	1/18/2023	Ongoing	Annual Hurricane	Megan Araya
Tarpon Springs	Flood Insurance Information	Handout	Brochure / Publication	Municipality	NFIP FloodSmart.gov Know Your Risk	20,000	9/7/2017	1/18/2023	8/3/2020	Annual Hurricane	Megan Araya
Tarpon Springs	Flood Insurance Information	Handout	Brochure / Publication	Municipality	NFIP Non-Engineered Opening Guide	20,000	9/7/2017	1/18/2023	8/3/2020	Annual Hurricane Outreach	Megan Araya
Treasure Island	Flood Insurance Seminar	Public Meeting	Public Meeting	Municipality	Prepare Ahead; Know Your Risk	100	11/15/2018	1/18/2023	11/30/2021		Jamie Viveiros
Treasure Island	Hurricane Expo with Bay News 9	Public Meeting	Public Meeting, Televised	Municipality	Prepare Ahead; Know Your Risk	6,921	5/23/2018	1/18/2023	11/30/2021		Jamie Viveiros
Treasure Island	Flood Facts	1 Page Publication in Beach Beacon	Weekly Newspaper	N. Redington Beach, Redington Shores, Redington Beach	Know Your Risk; Protect Your Property from Hazards: Protect Natural	14,700	8/18/2017	1/18/2023	11/30/2021	Printed in the Beach Beacon. Circulation	Jamie Viveiros
Treasure Island	FEMA's 50% Rule & How It May Affect Your Property	Handout	Brochure/Publication	Municipality	Build Responsibly	6,921	8/18/2014	1/18/2023	11/30/2021		Jamie Viveiros
Treasure Island	Risk Rating 2.0 in Florida	Handout	Brochure/Publication	Municipality	Protect Your Property; Mandatory Flood Insurance	6,921	11/30/2021	1/18/2023	11/30/2021		Jamie Viveiros
Treasure Island	Hurricane Preparedness Guide 2021	Publication	Brochure/Publication	County-wide	Know Your Risk; Sheltering; Preparedness	978,045	8/18/2017	1/18/2023	11/30/2021		Jamie Viveiros
Treasure Island	FEMA - Every Business Should Have a Plan	Brochure	Brochure/Publication, Static Displays	Municipality, Business	Prepared Ahead, Know Your Risk	6,921	10/30/2017	1/18/2023	11/30/2021		Jamie Viveiros
Treasure Island	FEMA - Preparing Makes Sense. Get Ready Now - English	Brochure	Brochure/Publication, Static Displays	Municipality	Prepare Ahead, Know Your Risk	6,921	10/30/2017	1/18/2023	11/30/2021		Jamie Viveiros
Treasure Island	FEMA - Preparing Makes Sense. Get Ready Now - Spanish	Brochure	Brochure/Publication, Static Displays	Municipality	Prepare Ahead, Know your risk	6,921	10/30/2017	1/18/2023	11/30/2021		Jamie Viveiros
Treasure Island	FEMA - Preparing Your Pets for Emergencies Makes Sense. Get Ready Now	Brochure	Brochure/Publication, Static Displays	Municipality	Prepare Ahead, Know Your Risk	6,921	10/30/2017	1/18/2023	11/30/2021		Jamie Viveiros
Treasure Island	FEMA - Preparing Makes Sense for People with Disabilities	Brochure	Brochure/Publication, Static Displays	Municipality	Prepare Ahead, Know Your Risk	6,921	10/30/2017	1/18/2023	11/30/2021		Jamie Viveiros
Treasure Island	FEMA - Prepare for Emergencies Now: Information for Olrder Americans	Brochure	Brochure/Publication, Static Displays	Municipality	Prepare Ahead, Know Your Risk	6,921	10/30/2017	1/18/2023	11/30/2021		Jamie Viveiros



**Pinellas County**  
**Local Mitigation Strategy 2022 - 2023**  
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Treasure Island	FEMA - Emergency Supply List	Brochure	Brochure/Publication, Static Displays	Municipality, Individuals, Families	Prepare Ahead, Personal Responsibility	6,921	10/30/2017	1/18/2023	11/30/2021		Jamie Viveiros
Treasure Island	Re-Entry Decals	Decals for residents to re-enter an evacuated area after a storm.	Website	Municipality	Public Safety Information (ex. Turn Around Don't Drown)	6,921	8/26/2014	1/18/2023	11/30/2021		Jamie Viveiros
Treasure Island	Alert T.I.	Program to contact residents for any type of emergency via cell phone,	Sign-up / website / brochure	Municipality	Direct contact to the residents for any emergency - bridge	6,921	8/26/2014	1/18/2023	11/30/2021		Jamie Viveiros
Treasure Island	Building/Renovating in Flood Zones	Website	Website	Municipality	Build Responsibly	6,921	11/30/2021	1/18/2023	11/30/2021		Jamie Viveiros
Treasure Island	Preparing for a Hurricane/Storm	Website	Website	Municipality	Prepare, During and After the Storm	6,921	10/30/2017	1/18/2023	11/30/2021		Jamie Viveiros
Treasure Island	During a Hurricane/Storm	Website	Website	Municipality	Prepare, During and After the Storm	6,921	10/30/2017	1/18/2023	11/30/2021		Jamie Viveiros
Treasure Island	What to Do After a Hurricane/Storm	Website	Website	Municipality	Prepare, During and After the Storm	6,921	10/30/2017	1/18/2023	11/30/2021		Jamie Viveiros
Treasure Island	Shelter Options	Website	Website	Municipality	Prepare Ahead	6,921	11/30/2021	1/18/2023	11/30/2021		Jamie Viveiros
Treasure Island	Hazardous Waste Disposal	Website	Website	Municipality	Proper disposal of hazardous waste	6,921	8/26/2014	1/18/2023	11/30/2021		Jamie Viveiros
Treasure Island	Illicit Discharge	Website	Website	Municipality	Protect natural functions (floodplain; habitat; etc.) of Boca Ciega Bay and report illegal activity	6,921	8/26/2014	1/18/2023	11/30/2021		Jamie Viveiros
Treasure Island	Community Emergency Response Team	Website	Website	Municipality	Response and Recovery	6,921	10/30/2017	1/18/2023	11/30/2021		Jamie Viveiros
Treasure Island	Home Builders Guide To Coastal Construction	PDF	Website	Municipality	Build Responsibly	6,921	8/26/2014	1/18/2023	11/30/2021		Jamie Viveiros
Treasure Island	Wind Retrofit Guide for Residential Buildings	PDF	Website	Municipality	Build Responsibly	6,921	8/26/2014	1/18/2023	11/30/2021		Jamie Viveiros
Treasure Island	Protect Your Home from Flooding	PDF	Website	Municipality	Build Responsibly	6,921	8/26/2014	1/18/2023	11/30/2021		Jamie Viveiros
Treasure Island	FEMA's Homeowners' Guide to Retrofitting	PDF	Website	Municipality	Build Responsibly	6,921	8/26/2014	1/18/2023	11/30/2021		Jamie Viveiros
Treasure Island	FEMA's Protecting Building Utilities from Flood Damage	PDF	Website	Municipality	Build Responsibly	6,921	8/26/2014	1/18/2023	11/30/2021		Jamie Viveiros
Treasure Island	FEMA Map Service Center	Link to Website	Website	Municipality	Know Your Risk	6,921	8/26/2014	1/18/2023	11/30/2021		Jamie Viveiros
Treasure Island	Red Cross Flood Safety	Link to Website	Website	Municipality	Prepare Ahead	6,921	8/26/2014	1/18/2023	11/30/2021		Jamie Viveiros

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Treasure Island	Ready.gov	Link to Website	Website	Municipality	Prepare Ahead	6,921	5/26/2017	1/18/2023	11/30/2021		Jamie Viveiros
Treasure Island	Disaster Preparedness for Kids	Link to Website	Website	Municipality	Prepare Ahead	6,921	11/24/2020	1/18/2023	11/30/2021		Jamie Viveiros
Treasure Island	Disaster Preparedness for Businesses	Link to Website	Website	Municipality	Prepare Ahead	6,921	10/30/2017	1/18/2023	11/30/2021		Jamie Viveiros
Treasure Island	Disaster Preparedness for Individuals with Disabilities	Link to Website	Website	Municipality	Prepare Ahead	6,921	10/30/2017	1/18/2023	11/30/2021		Jamie Viveiros
Treasure Island	Disaster Preparedness for Seniors	Link to Website	Website	Municipality	Prepare Ahead	6,921	10/30/2017	1/18/2023	11/30/2021		Jamie Viveiros
Treasure Island	Disaster Preparedness for Pets	Link to Website	Website	Municipality	Prepare Ahead	6,921	10/30/2017	1/18/2023	11/30/2021		Jamie Viveiros
Treasure Island	National Flood Insurance Program	Link to Website	Website	Municipality	Prepare Ahead, Mandatory Flood Insurance	6,921	11/30/2021	1/18/2023	11/30/2021		Jamie Viveiros
Treasure Island	Pinellas County Emergency Management	Link to Website	Website	County-wide	General Website of All Hazards Safety; Know Your Risk: Sheltering: Prepare Ahead, Know Your Risk	978,045	8/26/2014	1/18/2023	11/30/2021		Jamie Viveiros
Treasure Island	Pinellas County Storm Surge Map	Link to Website	Website	Municipality	Prepare Ahead, Know Your Risk	6,921	10/30/2017	1/18/2023	11/30/2021		Jamie Viveiros
Treasure Island	Know Your Evacuation Zone	Link to Website	Website	Municipality	Prepare Ahead, Know Your Risk	6,921	11/30/2021	1/18/2023	11/30/2021		Jamie Viveiros
Treasure Island	Build an Emergency Kit	Link to Website	Website	Municipality	Prepare Ahead	6,921	10/30/2017	1/18/2023	11/30/2021		Jamie Viveiros
American Red Cross	Pinellas County Senior Expo	General Disaster Preparedness, Senior Health Issues, Hand out brochures and Presentation 1/14/14	Community Event	County-wide	Preparedness for seniors, Health Issues, Special Needs Shelters, Planning in Disasters	200	10/30/2014	1/18/2023			Mark Hendrickson
American Red Cross	Health & Safety Fair	Disaster Preparedness, Health Issues. Hampton Inn 1/24/14	Community Event	Municipality	Disaster Preparedness & What to do to save a life	50	10/30/2014	1/18/2023			Mark Hendrickson
American Red Cross	Touch a Truck	Show Red Cross vehicle & talk about Disaster Preparedness. Largo Central Park 1/30/14	Community Event	County-wide	What the Red Cross vehicle does and what to do to prepare for a disaster and after a disaster	1,200	10/30/2014	1/18/2023			Mark Hendrickson
American Red Cross	Health & Safety Fair	Disaster Preparedness, Health Issues. Pinellas Central Elementary 1/30/2014	Community Event	Municipality	Disaster Preparedness & What to do to save a life	40	10/30/2014	1/18/2023			Mark Hendrickson
American Red Cross	Health & Safety Fair	Disaster Preparedness, Health Issues. St Patrick's Church, Largo 2/18/2014	Community Event	Municipality	Disaster Preparedness & What to do to save a life	60	10/30/2014	1/18/2023			Mark Hendrickson
American Red Cross	Health & Safety Fair	Disaster Preparedness, Health Issues. Largo Central Park 2/22/2014	Community Event	County-wide	Disaster Preparedness & What to do to save a life	30	10/30/2014	1/18/2023			Mark Hendrickson
American Red Cross	Spring Market - Table event	Disaster Preparedness. Lake Seminole Pres Church 3/1/2014	Community Event	Municipality	Make your Family/ Business Disaster Plan	200	10/30/2014	1/18/2023			Mark Hendrickson
American Red Cross	St. Petersburg Saturday Market-Table event	Disaster Preparedness. St. Petersburg 3/8/2014	Community Event	Municipality	Make your Family/ Business Disaster Plan	150	10/30/2014	1/18/2023			Mark Hendrickson
American Red Cross	Sheltering & Preparedness for disasters	Providing a Shelter to the community & Disaster Preparedness. Palm Harbor United Methodist 3/18/14	Community Event	Church members	How to become a Shelter for Red Cross & Disaster Preparedness	35	10/30/2014	1/18/2023			Mark Hendrickson



**Pinellas County**  
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American Red Cross	Women’s History Month - Disaster Presentation	How to prepare for disasters. St Petersburg College, Clearwater 3/26/2014	Community Event	College Students/staff	Make your Family/ Business Disaster Plan	42	10/30/2014	1/18/2023			Mark Hendrickson
American Red Cross	Fire Safety & Disaster Preparedness	Fire safety, preparing for disasters, Special Needs Shelters. Four Seasons MHP, 3/26/14	Community Event	Mobile Home Park Residents	Make your Family/ Business Disaster Plan	100	10/30/2014	1/18/2023			Mark Hendrickson
American Red Cross	Caregivers Table top & Citizen CPR	Disaster preparedness & Citizen CPR, St Petersburg Hospice	Roundtable/Forum	Hospice Volunteers & Staff	Make your Family/ Business Disaster Plan and Citizen CPR instruction	40	10/30/2014	1/18/2023			Mark Hendrickson
Eckerd College	Email to faculty/staff (May 2016) and distribution of annual hurricane guide to students (August 2016)	Distribution/posting of annual hurricane preparedness information	Brochure/Publication	Eckerd College community	Make your Family/ Business Disaster Plan	3,000	10/3/2014	1/18/2023	10/5/2016		Lisa Mets
Pinellas County Extension - UF/IFAS								1/18/2023			
Pinellas County Extension - UF/IFAS	Coastal Resilience Index	Consultation/Facilitated Assessment of Preparedness	Presentation to Governing Body	Municipality	Other- All of the above, Assessment of ability to recover post-disaster		9/18/2014	1/18/2023			Ramona Madhosingh/Libby Carnahan
Pinellas County Extension - UF/IFAS	Pinellas County Ext Website	Online education	Website	County-wide	Other- All of the above		9/18/2014	1/18/2023			Ramona Madhosingh/Libby Carnahan
Pinellas County Extension - UF/IFAS	Florida Homeowner Handbook to Prepare for Natural Disasters	New Publication, Co-authored and printed by UF/IFAS Extension, distributed in Pinellas County facilities	Brochure/Publication	County-wide	Protect your property from the hazard(s)		9/18/2014	1/18/2023			Ramona Madhosingh/Libby Carnahan
Pinellas County Extension - UF/IFAS	Hurricane Preparedness Workshop	Community workshop	Community Event	County-wide	Protect your property from the hazard(s)		9/18/2014	1/18/2023			Ramona Madhosingh/Libby Carnahan
Pinellas County Extension - UF/IFAS	Regional Floodplain Management Workshop	Workshop for professionals (urban planners, floodplain managers) on NFIP and new CRS.	Roundtable/Forum	Other: Regional, Pinellas, Pasco, Hillsborough, Manatee, Sarasota	Other - Changes to NFIP, CRS, legal implications		9/18/2014	1/18/2023			Ramona Madhosingh/Libby Carnahan
Pinellas County Extension - UF/IFAS	Timely Topics Blog	Online education	Newsletter	County-wide	Public Safety Information (ex. Turn Around Don't Drown)		9/18/2014	1/18/2023			Ramona Madhosingh/Libby Carnahan
Pinellas County Extension - UF/IFAS	Thinking Green Blog	Online education	Newsletter	County-wide	Public Safety Information (ex. Turn Around Don't Drown)		9/18/2014	1/18/2023			Ramona Madhosingh/Libby Carnahan
Pinellas County Extension - UF/IFAS	Water Column e-Newsletter	Online education	Newsletter	County-wide	Protect your property from the hazard(s)		9/18/2014	1/18/2023			Ramona Madhosingh/Libby Carnahan
Pinellas County Extension - UF/IFAS	Factsheet: Preparing your Pets for Hurricane Season	General education - printed	Brochure/Publication	County-wide	Public Safety Information (ex. Turn Around Don't Drown)		9/18/2014	1/18/2023			Ramona Madhosingh/Libby Carnahan
Pinellas County Extension - UF/IFAS	Factsheet: Preparing your Boats for Hurricane Season	General education - printed	Brochure/Publication	County-wide	Know your risk		9/18/2014	1/18/2023			Ramona Madhosingh/Libby Carnahan
Pinellas County Extension - UF/IFAS	Factsheet: Staying Connected during Hurricane Season	General education - printed	Brochure/Publication	County-wide	Public Safety Information (ex. Turn Around Don't Drown)		9/18/2014	1/18/2023			Ramona Madhosingh / Libby Carnahan
Pinellas County Extension - UF/IFAS	Wind and Trees Display	General education	Tabletop Display	County-wide	Insure your property for your hazard(s)		9/18/2014	1/18/2023			Ramona Madhosingh/Libby Carnahan
Pinellas County Extension - UF/IFAS	Disaster Preparedness for Residents	General education	Tabletop Display	County-wide	Make your Family/ Business Disaster Plan		9/18/2014	1/18/2023			Ramona Madhosingh/Libby Carnahan

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Pinellas County Extension - UF/IFAS	Coastal Cleanups	Hands-on events where participants learn about impacts to local ecosystem	Community Event	County-wide	Protect natural functions (floodplain; habitat; etc.)		9/18/2014	1/18/2023			Ramona Madhosingh/Libby Carnahan
Pinellas County Extension - UF/IFAS	Going Coastal: Estuary-Friendly Living	Hands-on training where participants learn about impacts to local ecosystem	Community Event	County-wide	Protect natural functions (floodplain; habitat; etc.)		9/18/2014	1/18/2023			Ramona Madhosingh/Libby Carnahan
Pinellas County Extension - UF/IFAS	Sustainable Floridians	Training for residents on behaviors and impacts to environment - water, land use etc.	7-week Training Program	County-wide	Protect natural functions (floodplain; habitat; etc.)		9/18/2014	1/18/2023			Ramona Madhosingh/Libby Carnahan
Pinellas County Extension - UF/IFAS	Clean Marina Workshops	Training and education for marina and boat owners/operators	Presentation to Industry	Businesses	Make your Family/ Business Disaster Plan		9/18/2014	1/18/2023			Ramona Madhosingh/Libby Carnahan
Tarpon Springs Housing Authority	Resident Notice	Annual Update of Evacuation Levels	Door-to-Door Distribution	Residents of Tarpon Springs Housing Authority	Public Safety Information (ex. Turn Around Don't Drown)	405	8/25/2014	1/18/2023	9/21/2016		Deb Amon
Tarpon Springs Housing Authority	Publication Distribution	"Surviving the Storm" Publication	Door-to-Door Distribution	Residents of Tarpon Springs Housing Authority	Public Safety Information (ex. Turn Around Don't Drown)	405	8/25/2014	1/18/2023	9/21/2016		Deb Amon
Tarpon Springs Housing Authority	Disaster/ Emergency Preparedness	Annual Update of Disaster/Emergency Preparedness Plan	Staff Master Document Distribution	Residents of Tarpon Springs Housing Authority	Make your Family/Business Disaster Plan	405	10/31/2014	1/18/2023	9/21/2016		Deb Amon
Tarpon Springs Housing Authority	Pinellas County Emergency Management	TSHA's website	Website	County-wide	Make your Family/Business Disaster Plan	929,028	10/31/2014	1/18/2023	9/21/2016		Deb Amon
Tampa Bay Regional Planning Council	Website	The www.tampabayprepares.org website was developed to provide families and businesses with information on how to prepare for all hazards, safety tips, and mitigation. The website also has guidance to businesses on how to develop their BCP and protect themselves from economic losses. Also includes the most recent Disaster Planning Guide for Families and Businesses. A county-specific All-Hazards printed guide which preparedness and mitigation information including floodplain management strategies in Spanish	Website	County-wide (Residents and Businesses); Spanish speaking	All Target Messages are addressed	12,000	8/22/2014	1/18/2023			Betti Johnson
Tampa Bay Regional Planning Council	Disaster Planning Guide - Spanish		Brochure/ Publication	Spanish Speaking Residents	All Target Messages are addressed	10,000	8/22/2014	1/18/2023			Betti Johnson

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Tampa Bay Regional Planning Council	Presentations to Regional Council Members	Staff briefs the Regional Council members on Emergency Management/ Floodplain Management issues throughout the year at the monthly meetings. These include the importance of the Local Mitigation Strategies, CRS and Flood Insurance, available mitigation workshops, hurricane evacuation planning and domestic security.	Presentation to Governing Body	Council members represent the (4) County Commissioners, municipalities and gubernatorial appointees.	All Target Messages are addressed	35	8/22/2014	1/18/2023			Betti Johnson
Tampa Bay Regional Planning Council	Community Presentations	Preparedness / Mitigation Talks to Homeowner Groups	Area-Specific Meeting	Hurricane Vulnerable Seniors	Make your Family/ Business Disaster Plan	50	8/22/2014	1/18/2023			Betti Johnson
Tampa Bay Regional Planning Council	Presentations to Planners	Briefing to LMS Members on Climate Change and Sea Level Rise	Area-Specific Meeting	County-wide	Know your risk	35	8/22/2014	1/18/2023			Betti Johnson
Tampa Bay Regional Planning Council	Participation in Public Safety Events	Booths at NOAA Hurricane Hunter Expo	Community Event	Students and Citizens	Know your risk	200	8/22/2014	1/18/2023			Betti Johnson
Palm Harbor Fire Rescue	Facebook Page	Updates on Palm Harbor Fire Rescue Facebook Page	Social Media/ Email	Municipality	Public Safety Information (ex. Turn Around Don't Drown)	Unknown	8/14/2014	1/18/2023			Bob Markford
Palm Harbor Fire Rescue	New E-Flash	Updates sent via e-mail in the form of an E-Flash	Social Media/ Email	Those that subscribe and are on the e-flash e-mailing list	Public Safety Information (ex. Turn Around Don't Drown)	100-150	8/14/2014	1/18/2023			Bob Markford
Palm Harbor Fire Rescue	Hurricane Preparedness	Talks to various Homeowners Groups in PH	Area-Specific Meeting	Municipality	Know your risk	100-200	8/14/2014	1/18/2023			Bob Markford
Pinellas County	Pinellas County Program for Public Information (PPI)	Flood related messages, target audiences, projects, and initiatives	Flood and Hurricane Outreach Program	Unincorporated and countywide projects	PPI Messages	300,000	11/28/2016	1/18/2023	3/18/2019	Located in Attachment 7-6; item was inadvertently omitted from this list,	Lisa Foster
USF St Petersburg	HURRICANE PREPAREDNESS		Emai/Website/Guide	USF Campus Community	Get a Kit; Make a pLan; Stay Informed	8,500	9/6/2022	1/18/2023	9/6/2022	N/A	Guy VanAsten

# Annual Update Requirement

***Major changes (if applicable) to the local hazard assessment, critical facilities list, repetitive properties list, or plan maps occurring in the last year.***

## Supporting documents:

- **Updated LMS Plan Introduction**  
Addition of a summary of the Pinellas County's Sea Level Rise and Storm Surge Vulnerability Assessment.
- **Pinellas Multi-Jurisdictional Community Rating System Annual Report** for Program for Public Information (PPI), Flood Insurance Improvement Plan and Flood Response Plan, January 2023. *Please note, the PPI is APPENDIX H within Pinellas County's 2020 LMS Plan.*
- **Pinellas County Repetitive Loss Area (RLA) Analysis Annual Report**, October 2022. *Please note, the RLA analysis is a part of APPENDIX I within Pinellas County's 2020 LMS Plan.*

No other major changes were made to Pinellas County's LMS plan in the year 2022. For the Repetitive Loss Properties as indicated in the Annual Compliance Form, four properties in the unincorporated area, were added to Pinellas County's list. Please note, since this list is protected, it is not being submitted with the rest of the Annual Updates.

# **UPDATED LMS PLAN**

## **Introduction**

## **Vulnerability Assessment**

### **Sea Level Rise and Storm Surge Vulnerability**

Pinellas County, in cooperation with its 24 municipalities, conducted a countywide sea level rise (SLR) and storm surge vulnerability assessment. This project was funded through the RESTORE Act Direct Component grant program administered by the U.S. Treasury's Office of Gulf Coast Restoration in combination with dedicated non-federal County allocated funds to complete this work.

This project was conducted to address the risks to the County presented by sea level rise and increasing risks from future storm surge. It involved multiple steps such as – review and collection of assets data; asset exposure analysis; and planning-level vulnerability assessment including impact analysis. Based on the results of the planning-level vulnerability assessment and discussions with County subject matter experts, five facilities were selected for detailed facility-level assessments.

The two main hazards that were studied are 1) tidal flooding (flooding due to sea level rise that could occur outside of storm events) and (2) storm surge. The project provided a detailed assessment of current and future flooding conditions, which then led to risk identification for several critical infrastructure assets across the County. The effort included modeling of potential impacts of sea level rise and storm surge in the County over various time horizons. The overall data parameters for the assessment included:

- 3 SLR scenarios (NOAA intermediate low, intermediate, and high)
- 4-time horizons (present day, 2040, 2070 and 2100)
- 8 asset categories (airports, transportation, stormwater, water supply, wastewater, natural gas, railway, and electricity distribution networks)

The results show dramatic increases in flood risk over time, particularly due to the flat topography of Pinellas County and because the County is a coastal peninsula. The results of this assessment were generated to facilitate effective decision-making, guide sustainable policies, and help prioritize efforts to ensure the long-term viability and resiliency of the County's coastal economy, infrastructure, and quality of life. The data developed for this study is assembled by the County into a Geographic Information System (GIS) database for use as a decision support tool moving forward.

The hazard, exposure, and risk data generated by this project will be available as a resource to all County municipalities as they move forward with their adaptation planning efforts. It is understood that effective planning and implementation of future resilience measures will require collaboration between county and its various jurisdictions, as these risks do not adhere to municipal boundaries.

While this Vulnerability Assessment ties into various LMS goals and objectives, it especially helps advance the specific goal to become more disaster resilient and provides guidance and resources to the county and its municipalities, for addressing sea level rise. For the report, maps and data that were developed as a part of the Sea Level Rise and Storm Surge Vulnerability Assessment, please contact: Hank Hodde, [hhodde@pinellas.gov](mailto:hhodde@pinellas.gov).



**Pinellas Multi-Jurisdictional  
COMMUNITY RATING SYSTEM ANNUAL REPORT  
January 2023**

**PINELLAS COUNTY  
MULTI-JURISDICTIONAL  
COMMUNITY RATING SYSTEM ANNUAL REPORT  
FOR  
PROGRAM FOR PUBLIC INFORMATION,  
FLOOD INSURANCE IMPROVEMENT PLAN AND FLOOD  
RESPONSE PLAN**

Pinellas County | January, 2023



**PINELLAS COUNTY  
MULTI-JURISDICTIONAL  
COMMUNITY RATING SYSTEM ANNUAL REPORT**

**Prepared for:**

Pinellas County and Participating Municipalities

22211 US Hwy. 19 N.

Clearwater, FL 33765

January, 2023

# TABLE OF CONTENTS

<b>1 INTRODUCTION AND PLANNING COMMITTEE .....</b>	<b>1</b>
<b>2 ASSESSMENT OF PUBLIC INFORMATION NEEDS AND TARGET AUDIENCES.....</b>	<b>5</b>
<b>3 MESSAGES AND OUTCOMES .....</b>	<b>6</b>
<b>4 PROGRAM FOR PUBLIC INFORMATION (PPI) PROJECTS.....</b>	<b>6</b>
FRMPIWG SharePoint Toolkit .....	6
Flood Response Plan .....	7
<b>5 FLOOD INSURANCE IMPROVEMENT PLAN .....</b>	<b>7</b>

## LIST OF TABLES

Table 1-1	FRMPIWG Core Members .....	2
Table 1-2	FRMPIWG Additional Support .....	3
Table 2-1	PPI Meetings .....	5

## APPENDICES

Appendix A – Key Messages
Appendix B – Status of PPI Projects
Appendix C – Flood Response Plan
Appendix D – Flood Insurance Improvement Plan

# 1 INTRODUCTION AND PLANNING COMMITTEE

This annual report presents the ongoing status of Pinellas County's Program for Public Information (PPI), which includes the flood insurance and flood response plans. This program is the floodplain management outreach arm of the Countywide Local Mitigation Strategy (LMS). The PPI includes all unincorporated areas of Pinellas County as well as 16 of its partner municipalities. Participating municipalities are listed below.

- Town of Belleair
- City of Belleair Beach
- City of Clearwater
- City of Gulfport
- City of Indian Rocks Beach
- Town of Indian Shores
- City of Madeira Beach
- City of Oldsmar
- City of Pinellas Park
- Town of Redington Beach
- Town of Redington Shores
- City of South Pasadena
- City of St. Petersburg
- City of St. Pete Beach
- City of Tarpon Springs
- City of Treasure Island

**Staff and stakeholders from these jurisdictions comprise the Pinellas County Flood Risk and Mitigation Public Information Working Group (FRMPIWG), which serves as the PPI committee as well as the stakeholder working group for the LMS. Having the same group of staff and stakeholders for both results in better coordination and consistency in messaging countywide and avoids duplication of efforts among the various initiatives to reduce flood risk and damage.** Not only does this committee meet the basic CRS PPI requirements, but they also evaluate Flood Insurance Coverage, Floodplain Management, Flood Warning and Response, and provide input to the multi-jurisdictional LMS. The FRMPIWG Core Members and Additional Support tables were updated to reflect personnel changes (Table 1-1 and Table 1-2).

**Table 1-1 FRMPIWG Core Members**

Jurisdiction Represented	Staff/Stakeholder	Name	Affiliation
Pinellas County	Staff	Libby Bolling	Pinellas County Marketing & Communications – PIO
Pinellas County	Staff	Lisa Foster	Floodplain Administrator
Pinellas County	Stakeholder	Ashley Tharp	Wright Flood, Corporate Agent Training Manager
Pinellas County	Stakeholder	Cece McKiernan	Florida Floodplain Managers Association, Executive Director
Belleair	Staff	Greg Lauda	Floodplain Manager
Belleair	Stakeholder	Tom Shelly	Florida Real Estate Broker
Belleair Beach	Staff	Kyle Riefler	Interim City Manager
Belleair Beach	Stakeholder	Marv Behm	Resident
Clearwater	Staff	Sarah Kessler	City of Clearwater
Clearwater	Stakeholder	Bill Jonson	Former Councilmember
Gulfport	Staff	Michael Taylor	Community Development Principal Planner
Gulfport	Stakeholder	Mike Whitman	WhitCo Insurance Agency
Indian Rocks Beach	Staff	Dean Scharmen	Public Services Director
Indian Rocks Beach	Stakeholder	Ron Sacara	Resident
Indian Shores	Staff	Darin Cushing	Building Official
Indian Shores	Stakeholder	Katrena Hales-Claver	Calusa Vacations LTD
Madeira Beach	Staff	Susan Portal	CRS Coordinator
Madeira Beach	Stakeholder	Vincent Gadrix	Gulf Beaches Public Library Director
Oldsmar	Staff	Deb Vitrali	Marketing Specialist / PIO
Oldsmar	Stakeholder	Paula Saracki	Resident/Business Owner
Pinellas Park	Staff	Derek Reeves	Planning & Development Services Principal Planner
Pinellas Park	Stakeholder	Linda Yang	FL Strategic Insurance
Redington Beach	Staff	Adriana Nieves	Deputy Clerk
Redington Beach	Stakeholder	Thomas Dorgan	Resident
Redington Shores	Staff	Jolie Patterson	Deputy Town Clerk
Redington Shores	Stakeholder	Kimberly Harr	Harr & Associates, Inc.
South Pasadena	Staff	Terri Sullivan	Building Official
South Pasadena	Stakeholder	Suzanne Burtzlaff	The Fountains Executive Director
St. Petersburg	Staff	Noah Taylor	CRS Coordinator
St. Petersburg	Stakeholder	Jake Holehouse	HH Insurance
St. Pete Beach	Staff	Bill Palmer	Building Official
St. Pete Beach	Stakeholder	Chris Hollands	Local Business Owner
Tarpon Springs	Staff	Megan Araya	Floodplain Coordinator

Jurisdiction Represented	Staff/Stakeholder	Name	Affiliation
Tarpon Springs	Stakeholder	Barbara Mamouzelos	Resident
Treasure Island	Staff	Jamie Viveiros	Assistant CDD Director
Treasure Island	Stakeholder	Clyde Smith	General Manager, Bilmar Resort

**Table 1-2 FRMPIWG Additional Support**

Jurisdiction Represented	Name	Affiliation
Pinellas County	David Connor	Pinellas County
Pinellas County	Alissa Berro	Pinellas County
Pinellas County	Anamarie Rivera	Pinellas County - Environmental Services
Pinellas County	Angela Dunkel	Pinellas County - PIE Airport/Engineering
Pinellas County	Barbara Hernandez	Pinellas County - BCC
Pinellas County	Glen-Paul Edson	Pinellas County - Pinellas County Mosquito Control
Pinellas County	Mary Burrell	Pinellas County - Emergency Management
Pinellas County	Rhonda Bowman	Pinellas County - CIP Survey
Pinellas County	Jessica Williams	Wright Flood
Pinellas County	Brad Hubbard	National Flood Experts
Pinellas County	Brian Ellis	Tampa Bay Regional Planning Council
Pinellas County	Cara Serra	Tampa Bay Regional Planning Council
Pinellas County	Cheryl Morales	Pinellas Public Library Cooperative (PPLC), Executive Director
Pinellas County	Christopher Weaver	Florida Strategic Insurance
Pinellas County	CJ Reynolds	Tampa Bay Regional Planning Council
Pinellas County	Dawn Forrest	Wright Flood
Pinellas County	Jim Watt	SmartVent & Risk Reduction Plus
Pinellas County	Joe Farrell	Pinellas Realtor Organization, Director of Governmental Affairs
Pinellas County	John Hibbard	Weisner Insurance
Pinellas County	John Toomer	Reliant Insurance Services
Pinellas County	Katherine Howington	Flood Insurance Specialist
Pinellas County	Laura Klement	Douglas Elliman Real Estate
Pinellas County	Mallory Arents	PPLC Services Coordinator
Pinellas County	Marty Sorensen	Resident
Pinellas County	Maxine Moore	Pinellas County – Floodplain Technician
Pinellas County	Nate Coco	State Farm
Pinellas County	Nelson Garcia	Sunpoint Home Loans
Pinellas County	Rick Haupricht	Greenleaf Title
Pinellas County	Sally Bishop	Resident
Pinellas County	Siobhan O'Kane	Urban Land Institute
Pinellas County	Vicki Russo	Resident
Belleair	Keith Bodeker	Belleair - Town of Belleair
Belleair	Debbie Darling	Belleair CC
Clearwater	Jared Leone	Clearwater
Clearwater	Steve Kessler	City of Clearwater
Gulfport	Clark Streicher	Gulfport - Building Official
Gulfport	Karen Brodeur	WhitCo Insurance Agency
Hillsborough County	Christine Hummel	Hillsborough County



Jurisdiction Represented	Name	Affiliation
Hillsborough County	Eugene Henry	Hillsborough County
Indian Rocks Beach	Dean Scharmen	Indian Rocks Beach - Public Services Director
Indian Rocks Beach	Eric Meyer	Resident
Indian Shores	Darin Cushing	Indian Shores - Building Official
Indian Shores	Robert E. Lyons	Sunwest Construction LLC
Madeira Beach	Derryl O'Neal	Madeira Beach - Madeira Beach
Madeira Beach	Gwen Sinkfield	Madeira Beach - Madeira Beach
Oldsmar	Daniel Simpson	Oldsmar - City Engineer
Oldsmar	Felicia Donnelly	Oldsmar
Oldsmar	Gregg Silliman	Oldsmar - Code Enforcement Officer
Oldsmar	Mandi Clark	Oldsmar - Planning Technician
Oldsmar	Michele Parisano	Oldsmar - CRA Administrator/Planning Manager
Pasco County	Bob Cobelli	Pasco County - Pasco County
Pinellas Park	Derek Reeves	Pinellas Park - Planning & Development Services Principal Planner
Pinellas Park	Carol Ashman	RockBridge Insurance
Pinellas Park	Housh Ghovae	Gateway Chamber of Commerce
Pinellas Park	Linda Yang	FI Strategic Insurance
Redington Beach	Darin Cushing	Redington Beach - Building Official/FPM
Redington Beach	Annie Fleeting	Owner, Next Home Beach Time Realty
Redington Beach	Thomas Dorgan	Resident
Redington Shores	Vincent LaPorte	Redington Shores – Building Official
Redington Shores	Jeff Shoobridge	Redington Shores – Town Administrator
Redington Shores	Bill Blackburn	Resident
South Pasadena	Ashley Dochinez	South Pasadena - Building Services Coordinator
South Pasadena	Doug Izzo	Tampa Bay Beaches Chamber of Commerce
St. Petersburg	Amber Boulding	St. Petersburg - St. Pete Emergency Management
St. Petersburg	Kyla Brelanel	St. Petersburg - St. Pete Emergency Management
St. Petersburg	Chris Dailey	Shore Acres Civic Association
St. Petersburg	Chris Simoniello	USF St. Pete
St. Petersburg	Frank Malowany	Smith & Associates
St. Petersburg	Jake Holehouse	HH Insurance
St. Pete Beach	Lyn Rosetti	St. Pete Beach - Senior Planner
Tarpon Springs	Kevin Powell	Tarpon Springs - Building Official
Tarpon Springs	Joan Jennings	Resident
Treasure Island	Paula Cohen	Treasure Island - Director CID
Treasure Island	Brian Ford	Insurance Resources
Consultant	Chris Zambito	Atkins
Consultant	Khan Bouphe	Jones Edmunds

## 2 ASSESSMENT OF PUBLIC INFORMATION NEEDS AND TARGET AUDIENCES

The PPI continues to be implemented for Pinellas County and its 16 participating communities. The committee members met three times in 2022 to evaluate the outreach initiatives and update the plan report, as well as provide input on the LMS. Table 2-1 describes the committee meetings. FRMPIWG meetings are advertised on the County's website (<https://pinellas.gov/boards-councils-and-committees/flood-risk-and-mitigation-public-information-working-group/>) and are open to the public.

**Table 2-1 PPI Meetings**

Date	Discussion Topics
January 28, 2022	The committee reviewed the status of the LMS and Multi-Jurisdictional PPI; revisited priority audiences and projects; discussed other public information efforts such as new audiences and projects; and reviewed the status of each outreach project for the municipalities. The FRMPIWG SharePoint Toolkit has been updated to include community events and awareness days/weeks on a shared calendar. This will allow for municipalities to be aware of what others are doing and keep track of upcoming awareness days/weeks to provide social media messages. Other notable discussions include the update of the Flood Guide and Real Estate Hazard Disclosure brochures, as well as the Blue-Sky Social Media Toolkit.
May 6, 2022	The committee reviewed the status of the LMS and Multi-Jurisdictional PPI, along with their adoption status. The project matrices for OP and FRP were presented to the committee and publicity requirements for outreach initiatives were discussed. These project matrices will assist communities in identifying the projects in the PPI, specifying projects they are currently implementing, and identifying projects they plan to implement for the year, as well as providing simpler tracking of project implementation. Other outreach project initiatives were discussed including standardizing outreach messages for social media campaigns throughout the year, updates to the Real Estate Disclosure Program, and dissemination of Repetitive Loss Area mailouts, as well as Annual Hurricane Preparedness Summits and updated Evacuation Zones were provided by Pinellas County Emergency Management.
October 28, 2022	The committee reviewed the status of the PPI and potential updates to the report, including revising existing messages, creating new projects, adding new topics with accompanying messages such as Resiliency and Sustainability, and the status of the outreach projects. The committee also discussed the LMS for messaging consistency and discussed the annual update. The committee will review the LMS in detail and provide additional comments to County staff to be incorporated into the LMS annual review.

During the meetings, the committee reviewed the types of flooding across the County and how each is being addressed through outreach and mitigation. The priority audiences and messages were also discussed and revised to better reflect new opportunities for reaching audiences and educating them about flood risks.

Significant floodplain management program changes occurred in 2022, including:

- FEMA Flood Insurance Rate Maps (FIRM) for the entire county were updated in 2021 and included significant changes, such as the addition of the Limit of Moderate Wave Action (LIMWA), which created a new flood zone, the Coastal A Zone.
- FEMA implemented Risk Rating 2.0 nationwide in 2021, an updated flood insurance rating methodology.
- Pinellas County, along with other municipalities, adopted the “Pinellas County Sea Level Rise and Storm Surge Vulnerability Assessment”, which includes maps and data for coastal flooding, including tidal flooding from sea level rise as well as current and future storm surge flooding.

As such, the committee discussed additional public information needs and identified a variety of outreach to address the changes.

### **3 MESSAGES AND OUTCOMES**

Outreach campaign messages must be accurate and concise to result in action and positive outcomes. The Committee evaluated existing messages and identified a need for additional resiliency messaging that encourages building stronger for future storms. The committee has revised these messages to maintain consistent, accurate messaging throughout, which are detailed in Appendix A.

### **4 PROGRAM FOR PUBLIC INFORMATION (PPI) PROJECTS**

In addition to discussing the effectiveness of each outreach initiative and message, new projects, such as the Tampa Bay News inserts, were also developed to streamline the coordination of messaging and better communicate to the public. Appendix B details the projects and includes the status of each.

#### **FRMPIWG SHAREPOINT TOOLKIT**

The FRMPIWG SharePoint toolkit, maintained by Pinellas County, allows the participating communities to access PPI and LMS resources, including outreach project templates. Communities can also upload completed project documentation. The toolkit addresses the needs of the participating communities to better coordinate messages and projects. Communities can view outreach messages of other communities as well as edit and upload their own content. The toolkit also provides templates for brochures, community newsletters, repetitive loss area letters and other valuable tools they can use to better communicate with residents about flood hazards and measures they can take to reduce risks. The toolkit also serves as a means to document and track the status of outreach initiatives.

Since its inception in 2020, the committee has updated the toolkit with a more modern, user-friendly interface. The toolkit has evolved beyond outreach to meet further needs of the participating communities by providing calendar notifications of pertinent outreach events and allowing the download of other documents, such as LMS documentation and the Flood Warning and Response Plan.

## **FLOOD RESPONSE PLAN**

The committee evaluated the flood response plan and decided to restructure the plan to better align the plan with other related plans, including the Comprehensive Emergency Management Plan (CEMP) and Public Works Emergency Response Plan. As such, the plan was updated with assistance from Pinellas County Emergency Management. The Flood Response Plan (Appendix C) is now part of the County Emergency Management Plan (CEMP). Outside of outlining and restructuring of the plan, the flood response activities and messages remain mostly unchanged. The committee started the overhaul of the Flood Response Toolkit after the hurricane season in 2022 and plan to have it finalized before the 2023 Hurricane Season. This overhaul allows for better organization and easier searching capabilities, as well as updated messaging to reflect concise actions by the municipalities and direct messaging to the public. In addition, a new 2022 Hurricane Preparedness Guide was developed by the County, in conjunction with Tampa Bay Times, to update emergency contact information, provide additional preparation guidelines for pets, and incorporate guidelines to address the COVID-19 pandemic.

This year, the hurricane exercise became real with Hurricane Ian. The Flood Response Plan was revised to reflect the lessons learned following the event. In addition, the county produced a storm-specific website that includes a storm surge flood inundation map application specific to the storm event and updates regarding the storm (<https://storm.pinellascounty.org/>). This website will be in effect for all storms and hurricanes.

## **5 FLOOD INSURANCE IMPROVEMENT PLAN**

The committee reviewed and updated the flood insurance improvement plan. In December 2021, the County received the updated policy claims and repetitive loss information. Appendix D details the updates to the plan.

# Appendix A

## Key Messages

Topic 1: Know your flood hazard	Topic 2: Insure your property for your flood hazard	Topic 3: Protect people from flood hazard	Topic 4: Protect your property from flood hazard	Topic 5: Build responsibly	Topic 6: Protect natural floodplain functions	Topic 7: Hurricane preparedness	Topic 8: Pet Preparedness	Topic 9: Flood economics	Topic 10: Resiliency and Sustainability
<p><b>"Find out your flood risk."</b></p> <p>Pinellas County and its municipalities offer a free flood map information service so you can find out if your property is in a high, moderate or low risk flood <del>zone</del> <u>area</u> or a floodway. You can also find out if your property is susceptible to flooding from storm surge and how deep it could get. We also provide all of the information needed to complete an elevation certificate to get your flood insurance rate.</p> <p>You can also see if you live near protected areas that have natural floodplain functions, like swamps or mangrove stands. These areas store flood waters or buffer wave action while providing habitat for wildlife and cleaning the flood water.</p>	<p><b><i>Purchase flood insurance for your home, business, or rental.</i></b></p> <p>Protect your home or business and your belongings with a flood insurance policy. Flood insurance is required for federally-backed mortgages on buildings in high-risk flood zones. Anywhere it rains it can flood, so flood insurance is recommended, even if it is not required by your lender.</p> <p>Most homeowners' and renters' insurance policies do not cover losses due to flooding. A new policy takes 30 days to take effect, so don't delay. Flood insurance technical assistance from flood insurance "advocates" is also available. These are professionals in the insurance field who can provide you with reliable information about your flood risk and flood insurance options.</p>	<p><b><i>"Stay connected."</i></b></p> <p>Tune in to local news stations or NOAA weather radio stations 162.450 or 162.550 and follow us on Facebook, Twitter, and Nextdoor to stay informed and sign up for Alert Pinellas to receive text, phone and/or email notifications if flooding is expected in your area. Visit <a href="http://www.pinellascounty.org/alertpinellas">www.pinellascounty.org/alertpinellas</a> for more information and to sign up.</p>	<p><b><i>"Protect Your Property."</i></b></p> <p>Consider raising your AC unit and other utilities to protect your investment from flood damage. Check and mark your fuse or breaker box to show the circuits to the floodable areas. Install sewer line check valves to prevent sewer backup flooding. Staff is available for drainage evaluations and one-on-one consultations about how to protect your property from flooding. You can schedule a consultation by calling Pinellas County's Flood Information Services at (727) 464-7700. If you live in a municipality, you may contact your city directly.</p>	<p><b><i>"Find out what building permits you may need and hire a licensed contractor."</i></b></p> <p>Building permits protect our residents, the community, and buildings by ensuring all proposed work complies with current codes, standards, ordinances, and construction techniques. Pinellas County requires a permit for any new building, addition, remodeling, demolition, or work in excess of \$500.00 or that would require an inspection to ensure that all construction is safely completed.</p>	<p><b><i>"Help prevent flooding and pollution by keeping storm drains clear."</i></b></p> <p>Keep leaves, grass clippings and other debris out of storm drains and waterways to reduce pollution that can lead to algae blooms and fish kills. When storm drains get clogged with debris they can back up with water and flood yards and homes, too. Do your part. Remember, only rain down the drain —it's the law (Ordinance #06-13). To report illegal dumping <a href="http://www.pinellascounty.org/reportanissue/">www.pinellascounty.org/reportanissue/</a> or call (727) 464-4425.</p>	<p><b><i>Prepare ahead and get a plan</i></b> with the Ready Pinellas app, which has readiness checklists and allows you to create a plan for yourself, your family and your pets. Download the app for free on your mobile device through the Apple App Store or Google Play or visit <a href="http://www.pinellascounty.org/flooding/warning.htm">www.pinellascounty.org/flooding/warning.htm</a> for more information.</p>	<p><b><i>"Make a plan for your pets."</i></b></p> <p>Residents should assess their risks and know their home's vulnerability to storm surge, flooding and wind and locate pet friendly shelters in advance. People should develop a plan for protecting themselves, their homes and pets.</p>	<p><b><i>"Understand what is covered by your flood insurance policy."</i></b></p> <p>There are separate flood coverages for contents and building. Condominium association flood policies typically cover common areas and certain building elements within the unit. Find out what your homeowners and flood insurance policies cover and do not cover. Also, find out about your building and contents deductible amounts.</p>	<p><b><i>"If you are building new, consider building stronger to withstand future storms (www.pinellascounty.org/flooding/buildsmart.htm)."</i></b></p>
<p><b><i>"Know your hurricane evacuation zone."</i></b></p> <p>Remember, flood zones and evacuation zones are different! The committee determined that this message is very important as there has been confusion from the public about flood zones versus hurricane evacuation zones. Knowing the difference is critical during times of disaster to reduce confusion and better maintain the public's safety. Flood zones are used for assessing a property's flood insurance rates and flood risk, which can be caused by heavy rains as well as by tropical storms and hurricanes. Everyone lives in a flood zone, which may be high, moderate, or low risk. Evacuation zones are based on a property's vulnerability to storm surge from a hurricane. To know when to evacuate for hurricane surge flooding, you must KNOW YOUR EVACUATION ZONE! Find your evacuation level, routes, and shelters.</p>	<p><b><i>"Do not sign an Assignment of Benefits contract as a condition of having your home repaired."</i></b></p> <p>You do not need to sign an Assignment of Benefits in order to get your insurance claim processed or your home repaired. Review all contracts carefully as there can be misuse by contractors that can lead to harmful consequences.</p>	<p><b><i>"Do not play in flood waters."</i></b></p> <p>Floodwaters can become contaminated with bacteria, sewage and other hazardous materials that can cause serious illness. In addition, dangerous animals such as alligators and snakes as well as other unseen hazards like large openings in the ground and curbs may cause serious injury. Power line, reporting from NWS.</p>	<p><b><i>"Clear storm drains to prevent flooding."</i></b></p> <p>When storm drains get clogged with debris, water can back up into streets, yards, and homes. Keeping storm drains clear protects your property.</p>	<p><b><i>"Be aware of the substantial improvements rule."</i></b></p> <p>There are specific requirements if the cost of the improvement is equal to or exceeds 50% <del>of the</del> <u>community percentage number</u>% of the home's market value prior to the improvement. Many communities have adopted a lower threshold and/or a cumulative time period for Substantial Improvement. Check with your municipality for the specific requirement in your jurisdiction.</p>	<p><b><i>"Use Low Impact Development (LID), such as rain barrels, bioretention systems, green roofs, pervious materials, and non-invasive vegetation on your property."</i></b></p>	<p><b><i>"Know your zone."</i></b></p> <p>Remember flood zones and evacuation zones are different!</p>	<p><b><i>Microchip your animal in case you get separated.</i></b> If your contact information changes, update it with the service that you registered with. Update your pet's vaccinations and make sure their county license is valid.</p>	<p><b><i>"Check with your flood insurance agent to make sure your flood insurance policy has proper coverage for your risk."</i></b></p> <p>Ensure that it is has to appropriate coverages, is rated correctly and you are receiving the correct CRS discount. Flood insurance technical assistance from flood insurance "advocates" is also available. These are professionals in the insurance field who can provide you with reliable information about your flood risk and flood insurance options.</p>	<p><b><i>"If you are building new, consider building stronger to withstand future storms such as post, piles, or piers foundations (www.pinellascounty.org/flooding/buildsmart.htm)."</i></b></p>
	<p><b><i>"Learn more about the difference between insurance and disaster assistance."</i></b></p> <p>More than 20% of claims are paid for properties outside of a designated special flood hazard area. Contents coverage is also available. This coverage is available whether a disaster is declared or not. Most forms of disaster assistance require a declaration from the President and often come in the form of loans that must be repaid.</p>	<p><b><i>"Turn around, don't drown."</i></b></p> <p>Avoid driving through areas already flooded, especially if the water is flowing fast. Do not attempt to cross flowing streams or flooded roadways.</p>	<p><b><i>"Keep debris and trash out of the streets, streams, and ditches."</i></b></p> <p>They obstruct flow and reduce capacity of the stormwater system to store flood waters. This can cause water to back up into streets, yards, and homes.</p>	<p><b><i>"Build Responsibly. Higher keeps you dryer."</i></b></p>	<p><b><i>"Protect Natural Floodplain Functions."</i></b></p> <p>Only Rain Down the Drain. It is illegal to dump anything into storm drains, waterways or waterbodies. Do not open manholes and allow water into the systems. This will overload the system and cause backups or overflows.</p>	<p><b><i>"Prepare ahead and get a plan."</i></b></p> <p>Make a plan for emergencies involving floods, hurricanes and other natural disasters. Plan for evacuation routes, locations for high ground, food, water, shelter, and emergency supplies. Include preparations for pets.</p>	<p>If your pet takes medications, keep a two-week supply on hand. Pets may get anxious during stressful events; ask your veterinarian for advice.</p>	<p>"Check with your flood insurance agent to make sure you are getting the right CRS premium discount."</p>	<p><b><i>"The sea is already rising!"</i></b></p> <p>Local tide gages show that sea levels in Pinellas County have been rising since 1950. FEMA flood maps do not show the future flooding conditions for your area, including tidal, precipitation, and storm surge. Take preventative action for your home by <u>planting native plants and using gravel</u> in place of concrete, utilizing low impact development, such as zero-scaping and rain-barrels, or elevating your structure—<a href="https://tidesandcurrents.noaa.gov/HighTideFlooding_AnnualOutlook.html">https://tidesandcurrents.noaa.gov/HighTideFlooding_AnnualOutlook.html</a></p>
	<p><b><i>"Your NFIP flood insurance policy is transferrable."</i></b></p> <p>If you are buying or selling a home, the existing NFIP flood insurance policy can be transferred to the new owner(s). This provides the same discounts previously applied to the rate and allows for no lapse in coverage until the new owner(s) can find their own flood insurance agent.</p>	<p><b><i>"Sign up for Special Needs Sheltering and Transportation."</i></b></p> <p>Prepare ahead so that you have transportation and shelter to meet your specific circumstances.</p>	<p><b><i>"Brake, Don't Wake!"</i></b></p> <p>Wake from vehicles traveling on flooded roads causes more damage than the rising water alone.</p>	<p><b><i>"Renovate Responsibly."</i></b></p> <p>It is illegal to add plumbing or electrical or to convert the space below an elevated home into living space.</p>	<p><b><i>"Do not remove sand from the beach or disturb dunes to fill sandbags."</i></b></p> <p>Doing so will cause more harm to property owners. This message is very relevant to Pinellas County, which is home to some of the most popular beaches in the nation. Beaches and dunes provide a natural buffer from storm events to lessen flooding during coastal storms. In addition, removing sand from beaches or dunes may violate federal, state or local law.</p>	<p><b><i>"Inventory, photograph or videotape your home or business."</i></b></p> <p>Document your belongings and property to help recover losses.</p>	<p>If you have no other option, the County has pet-friendly shelters available for dogs and cats. Pre-registration is not required. A Pet Shelter Enrollment Form is available on the Pinellas County Animal Services website at <a href="http://www.bit.ly/pcasprep">www.bit.ly/pcasprep</a>. Fill it in and tape it to your pet's crate. It will make registration easier once you get to the shelter. Bring a photo of you with your pet. Keep it with your important documents and on your phone.</p>	<p>Understand what is covered by your flood insurance policy. Most flood insurance policies, including National Flood Insurance Program (NFIP) policies, do not cover Loss of Use. Loss of use coverage can help reimburse you for hotel, restaurant and other living expenses you may incur during a specified time period as a result of your home being uninhabitable. Check with your insurance agent for coverage options.</p>	<p><b><i>"If you witness flooding in your area without rain, then you are probably experiencing king tide or sunny day flooding. Brake don't wake! Wake from vehicles traveling on flooded roads causes more damage than the rising water alone. Link to PC Webpage</i></b></p>
	<p><b><i>"Protect yourself with a flood insurance policy."</i></b></p> <p>Property owners in Pinellas County and its municipalities should take measures to protect their investment, including purchasing flood insurance. For some homeowners, flood insurance may be required if the property is located in a Special Flood Hazard Area (SFHA) and they have a government-backed loan. Property owners should also be aware that even though their property may not be in a SFHA, it may still be subject to flooding and that most homeowner's insurance do not cover flood. Homeowners who have flood insurance often recover quicker from a flooding event than those without flood insurance. Flood insurance is also available for renters. Flood insurance technical assistance from flood insurance "advocates" is also available. These are professionals in the insurance field who can provide you with reliable information about your flood risk and flood insurance options.</p>	<p><b><i>"Learn when to stay or evacuate."</i></b></p> <p>Follow state and local directives to evacuate. If given the option and if you are on high ground, the safest measure may be to shelter in place.</p>	<p><b><i>"Remove leaves and debris from gutters and downspouts."</i></b></p>	<p><b><i>"Plan for proper drainage and use low impact development (LID)."</i></b></p> <p>Along with physical traditional facilities, practices such as rain gardens, pervious pavers and vegetative buffers can help reduce the impact of flooding.</p>				<p>"Find out how much flood damage could cost you."</p>	<p><b><i>"If you witness flooding in your area and there has not been any rain, then you probably experienced kingtide or sunny day flooding. Don't play in floodwaters.</i></b></p>
		<p><b><i>"Remember to never plug your generator directly into your home's wiring and not to operate the generator in wet conditions."</i></b></p> <p>It is also important to not run at least 20 feet from the home. Generators emit carbon monoxide, which is a dangerous, odorless gas. Portable generators should not be run indoors or in any other enclosed space like a garage or crawlspace. You should have a CO detector on every floor if using a generator.</p>	<p><b><i>"Secure structures, belongings, chemicals and other items before you leave."</i></b></p> <p>This message also applies to seasonal residents so that their property is protected from flood hazards while away.</p>	<p><b><i>"Find out what the flood hazard and required development standards are BEFORE you develop your plans."</i></b></p> <p>FEMA and the County develop flood hazard maps, which are both used to determine the flood hazard and required development standards. Additional data may be available that show the flood hazard from larger storms and/or future conditions. This information helps to inform private and public project planning. For more information visit <a href="http://floodmaps.pinellascounty.org/pages/county-flood-hazard-area">floodmaps.pinellascounty.org/pages/county-flood-hazard-area</a>.</p>				<p><b><i>Find out what your homeowners and flood insurance policies cover and do not cover.</i></b></p> <p>Also, find out about your building and contents deductible amounts.</p>	
			<p><b><i>"Take action to move your property or protect it from flooding."</i></b></p> <p>Flood loss avoidance is a protective action you take to minimize flood damage and losses to your buildings and personal property before a flood occurs, and some expenses associated with protecting or moving your property may be covered by your insurance policy.</p>	<p><b><i>"Find out what building permits are required."</i></b></p> <p>Get required permits before you start any home repair, improvement, or construction. Pinellas County enforces specific building regulations based on the flood hazard to protect people and buildings from flooding while maintaining natural floodplain functions. Builders should contact Pinellas County to find out what permits are required before starting the project.</p>					
			<p><b><i>"Shut off power or breakers before evacuation or leaving for an extended period of time."</i></b></p>	<p><b><i>"Be aware of the substantial improvements rule."</i></b></p> <p>Remodeling projects that cost 49% <del>of the</del> <u>community percentage</u> here-% of the value of the original structure will require you to elevate the building above the flood level. Houses substantially damaged by fire, flood or any other cause must be elevated above the regulatory flood level when they are repaired.</p>					
				<p><b><i>"Find out what the flood hazard and required development standards are BEFORE you develop your plans."</i></b></p> <p>The FEMA Flood Insurance Rate Map (FIRM) and County Floodplains maps are used to determine building requirements to help protect you from flooding. Federal requirements for flood insurance are only based on the FEMA FIRM.</p>					

# Appendix B

Status of PPI Project



### 330 OUTREACH PROJECTS WORKSHEET

Projects Implemented Countywide			Newly Implemented Projects			Identified but Not Implemented Projects																	
Project ID	Outreach Projects	Description	CPI?	Target Audience	STK?	Countywide Reach	Unincorporated	Belleair	Belleair Beach	Clearwater	Gulfport	Indian Rocks Beach	Indian Shores	Madeira Beach	Oldsmar	Pinellas Park	Redington Beach	Redington Shores	South Pasadena	St. Pete Beach	St. Petersburg	Tarpon Springs	Treasure Island
OP#1	RLA Letter	Letter, Flood Info Brochure, and Insurance Info Sheet distributed via direct mail to residents and businesses in the Repetitive Loss Areas	Y	RLAA	N	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
*OP#2	*Flood Guide available at County/City Buildings	PC Departments: Building, Planning, Development Review Services, Communications, Utilities	Y	Customers of Pinellas County Services	N	N	Y	Y	Y	N	N	Y	N	Y	Y	N	Y	N	N	N	Y	Y	N
*OP#3	*Flood Guide available at County Libraries	Made Available at 25 Library Locations throughout Pinellas County	Y	Customers of Pinellas County Libraries	Y	Y																	
*OP#4a	*Hurricane Guide 2020	*Distributed countywide *Made available at County and municipal buildings *Made available at numerous businesses	Y	No target audience	N	N	Y	Y	Y	N	N	N	N	Y	Y	N	Y	N	N	N	Y	Y	Y
*OP#4b	*Hurricane Guide 2020 - ESOL (Spanish)	*Distributed countywide *Made available at County and municipal buildings *Made available at numerous businesses	Y	Spanish-Speaking Residents	N	N	Y	Y	Y	N	N	N	N	N	Y	N	Y	N	N	N	Y	Y	N
*OP#4c	*Hurricane Guide 2020 - ESOL (Vietnamese)	*Distributed countywide *Made available at County and municipal buildings *Made available at numerous businesses	Y	Vietnamese-Speaking Residents	N	N	Y	N	N	N	N	N	N	N	N	N	N	N	N	N	Y	N	N
*OP#5a	*Hurricane Guide 2020 Available at County Libraries	Made Available at 25 Library Locations throughout Pinellas County	Y	No target audience	Y	Y																	
OP#5b	*Hurricane Guide 2020 - ESOL (Spanish) Available at County Libraries	Made Available at 25 Library Locations throughout Pinellas County	Y	Spanish-Speaking Residents	Y	Y																	
*OP#5c	*Hurricane Guide 2020 - ESOL (Vietnamese) Available at County Libraries	Made Available at 25 Library Locations throughout Pinellas County	Y	Vietnamese-Speaking Residents	Y	Y																	
OP#6	Utility Bill Insert	Information distributed in the utility bill that is distributed to Unincorporated, Beach communities from Belleair Beach south to Tierra Verde, City of Largo, Town of Kenneth City, and limited sections of Clearwater, Dunedin, Pinellas Park and St. Petersburg	Y	No target audience	N	N	Y	Y	Y	N	N	Y	N	Y	Y	N	Y	N	N	N	N	Y	Y
*OP#7	*Flood Map Service Training	Pinellas County Floodplain Administrator and Flood Insurance Advocate present to Real Estate professionals that work countywide about: *Flood Information-all 10 topics *Flood Insurance Details *How to use the online flood map service center  Real Estate Flood Disclosure Brochures are provided	Y	Real Estate Professionals	Y	Y																	
*OP#8	*Real Estate Agents Flood Disclosure and Information Brochure (English & Spanish)	Brochure distributed to potential buyers of property countywide by real estate professionals.	Y	Buyers of Real Estate	Y	Y																	
*OP#9	*Pinellas/Pasco Realtor Organization Newsletter	Article published annually in the PRO newsletter that covers Pinellas County Flood Map Service, Real Estate Disclosure trainings, Emergency Management alert information, and technical assistance information.	Y	Real Estate Professionals	Y	Y																	
OP#10	Landscape Training	Any person or company providing landscape services must complete the Pinellas County Landscape Best Management Practices Course and display a Pinellas County vehicle decal to avoid violation of the Pinellas County Fertilizer and Landscape Maintenance Ordinance.	N	Landscapers	N	Y																	
OP#11	Commissioner / Mayor Article in Utility Bills or Mailed letters	Each year the County Commission Chair or Mayor will provide flood reminders, including for residents to review their insurance coverage and consider adding flood insurance, and promote flood insurance technical assistance in an article disseminated in Utility bills or mailed letters, and released to the press. This is frequently published in newspapers and neighborhood newsletters.	Y	No target audience	N	N	Y	Y	N	N	N	Y	N	N	Y	N	Y	N	N	N	N	Y	N
OP#12	Flood Map Service Promo Email Blast (via everbridge)	Flood Map Service Promo Email to Realtors, Insurance Agents, Lenders, and Surveyors registered in Pinellas County via Everbridge	Y	Realtors, Lenders, Insurance Agents	N	N	N	N	Y	N	N	Y	N	N	N	N	N	N	N	N	N	Y	N
OP#13	Storm Drain Markers	Only Rain Down Drain Storm Drain Marker program	N	No target audience	N	N	N	N	Y	Y	N	N	N	N	Y	N	Y	N	N	N	Y	Y	N
OP#14	Storm Drain Murals	Only Rain Down Drain Storm Drain Mural program	N	No target audience	N	N	Y	N	Y	N	N	N	N	N	N	N	N	N	N	N	Y	N	N
OP#15	Vehicle Wraps	Natural functions messages, such as Only Rain Down Drain are wrapped on 19 vehicles. All vehicles can be see across the county and out of the county when vehicles are used for business travel.	N	No target audience	N	N	Y	Y	N	N	N	N	N	N	N	N	N	N	N	N	N	Y	N
OP#16	Bus Wraps	Natural functions messages, such as Only Rain Down Drain are wrapped on 11 public transportation busses. All busses can be see across the county.	N	No target audience	Y	Y																	
OP#17	LMS and PPI Annual Update Press Release	LMS and PPI annual reports submitted to the governing body, released to the media, and made available to the public	N	No target audience	N	Y																	
OP#18	Scheduled Social Media Posts (Facebook)	Defined Social Media posts that cover all topics	Y	No target audience	N	N	Y	Y	N	N	N	Y		Y	Y	N	N	N	N	N	Y	Y	Y
OP#19	Scheduled Social Media Posts (Instagram)	Defined Social Media posts that cover all topics	Y	No target audience	N	N	Y	Y	N	N	N	N		N	Y	N	N	N	N	N	N	Y	Y
OP#20	Scheduled Social Media Posts (Twitter)	Defined Social Media posts that cover all topics	Y	No target audience	N	N	Y	Y	N	N	N	Y		Y	Y	N	N	N	N	N	N	Y	Y
OP#21	E-News/E-Lert	Email blasts from the community sent to citizens who opt-in. Topics may include floodplain management, environmental news, and public safety.	N	No target audience	N	N	Y	Y	Y	N	N	Y	N	N	Y	N	N	N	N	N	Y	Y	Y
OP#22	Newsletter(s)	Newsletter from the community distributed by multiple dissemination methods, such as email blasts, newspaper inserts, mailers, and articles in neighborhood newsletters/magazines	Y	Varies	N	N	Y	Y	Y	N	N	Y	N	N	Y	Y	N	Y	N	N	Y	Y	Y
OP#23	CRS Users Group Meetings	Meetings for community officials involved in, looking to be involved in, or just interest in learning about different topics related to CRS and best practices for accomplishing activities.	Y	No target audience	N	Y																	
OP#24	Pinellas County's Speakers Bureau	Organized events in neighborhoods or offices to learn more about your flood risk, flood insurance, property protection, preparedness and safety, and natural floodplains.	Y	Varies	N	Y																	
OP#25	New Homeowner Brochure and Flyer	Brochure and flyer for new homeowners to introduce them to Pinellas County watersheds and flood risks. These are listed on the Pinellas County Website.	Y	New Homeowners	N	N	Y	Y	N	N	N	N	N	N	N	N	Y	N	N	N	N	N	N
OP#26	Hurricane Season Press Release	An annual press release reminding citizen of the upcoming Hurricane Season with preparation tips.	Y	No target audience	N	Y																	

### 330 OUTREACH PROJECTS WORKSHEET

[illegible]

# Appendix C

## Flood Response Plan

# FLOOD WARNING AND RESPONSE PLAN



**CEMP Volume II**  
**Hazard Specific Plan**  
**August 2022**

## APPROVAL SIGNATURES

The Flood Warning and Response Plan has been approved by Pinellas County Emergency Management (PCEM) and the Pinellas County Public Works Floodplain Administrator.



Cathie Perkins  
Pinellas County Emergency Management – Director

8/22/2022  
Date Approved



Lisa Foster  
Pinellas County Public Works – Floodplain Administrator

8/22/2022

Date Approved

## Distribution List:

The following agencies will receive an electronic version of this document when it is updated. It is the responsibility of the receiving agency to disseminate to appropriate personnel.

- Pinellas County Public Works (PCPW)
- Pinellas County Emergency Management (PCEM)
- Pinellas County Building and Development Review Services (PCBDRS)
- Pinellas County Communications (PCC)
- Pinellas County Department of Administrative Services (PCDAS)
- Pinellas County Property Appraiser (PCPAO)
- Pinellas County Sustainability and Resiliency
- Pinellas County Utilities
- Pinellas County Municipalities
  - City of Belleair Beach
  - City of Belleair Bluffs
  - City of Clearwater
  - City of Dunedin
  - City of Gulfport
  - City of Indian Rocks Beach
  - City of Largo
  - City of Madeira Beach

- City of Oldsmar
- City of Pinellas Park
- City of Safety Harbor
- City of Seminole
- City of South Pasadena
- City of St. Pete Beach
- City of St. Petersburg
- City of Tarpon Springs
- City of Treasure Island
- Town of Belleair
- Town of Belleair Shore
- Town of Indian Shores
- Town of Kenneth City
- Town of North Redington Beach
- Town of Redington Beach
- Town of Redington Shores
- Pinellas County Fire Control Districts

## REVISIONS

The County Floodplain Administrator in coordination with Pinellas County Emergency Management (PCEM) and other supporting departments will review and update this plan on an annual basis or as needed due to updates or changes in processes.

This chart documents the revisions made to this plan since the last signed approved version dated June 2018.

Date	Page(s)	Change
08/22/2022	All	Updated Plan Format
08/22/2022	7-30	Updated and Reorganized Direction and Control Section
08/22/2022	30-39	Updated and Reorganized Flood Response Operations Section
08/22/2022	41	Moved EOC Organizational Structure to Appendices
08/22/2022	42-70	Moved Hazard Analysis to Appendices

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<b>APPROVAL SIGNATURES .....</b>	<b>3</b>
DISTRIBUTION LIST: .....	3
<b>REVISIONS .....</b>	<b>4</b>
<b>1 PURPOSE/SCOPE .....</b>	<b>7</b>
<b>2 DIRECTION &amp; CONTROL .....</b>	<b>7</b>
<i>Roles and Responsibilities .....</i>	<i>8</i>
2.1 PUBLIC EDUCATION AND OUTREACH .....	10
<i>Pinellas County Multi-Jurisdictional Program for Public Information (PPI).....</i>	<i>10</i>
<i>Flood Risk and Mitigation Public Information Working Group (FRMPIWG) .....</i>	<i>10</i>
<i>Evacuation Zone Updates .....</i>	<i>10</i>
<i>Hurricane/All Hazards Preparedness Guide .....</i>	<i>11</i>
<i>Know Your Zone .....</i>	<i>12</i>
<i>Pinellas County Public Connection Television (PCC-TV) .....</i>	<i>12</i>
<i>Preparedness Events .....</i>	<i>13</i>
<i>Public Transportation Vehicle Signage .....</i>	<i>13</i>
<i>Ready Pinellas Mobile Application .....</i>	<i>13</i>
<i>Severe Weather Awareness Week.....</i>	<i>14</i>
<i>Storm Surge Signs.....</i>	<i>14</i>
<i>Strategic Marketing and Outreach Plan .....</i>	<i>14</i>
<i>Pinellas County Website.....</i>	<i>15</i>
2.2 ALERT & NOTIFICATION .....	16
<i>Flood Threat Recognition System (FTR).....</i>	<i>16</i>
<i>Emergency Warning Dissemination (EWD) .....</i>	<i>18</i>
<i>Pre-Scripted Messages .....</i>	<i>18</i>
2.3 WARNING AND NOTIFICATION TOOLS .....	20
<i>Alert Pinellas (Everbridge) .....</i>	<i>20</i>
<i>Billboard Emergency Alert System (BEAS) Program .....</i>	<i>20</i>
<i>Integrated Public Alert and Warning System (IPAWS).....</i>	<i>20</i>
<i>iNWS Mobile Alerting.....</i>	<i>20</i>
<i>Roadway Dynamic Messaging Signs .....</i>	<i>21</i>
<i>Street Outreach Teams .....</i>	<i>21</i>
<i>Social Media .....</i>	<i>22</i>
<i>Warning and Notification Database (WAND) .....</i>	<i>23</i>

---



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NOAA Weather Radio All Hazards (NWR) .....	23
2.4 PLANNING, THREAT, AND IMPACT ANALYSIS .....	23
<i>Pinellas Emergency Level Interoperable Critical Analysis (PELICAN)</i> .....	23
<i>Flood Mapping</i> .....	25
<i>Hurricane Evacuation (HURREVAC)</i> .....	26
<i>Damage Assessment Reporting Tools</i> .....	27
2.5 TRAINING AND EXERCISE .....	28
<b>3 FLOOD RESPONSE OPERATIONS (FRO) .....</b>	<b>30</b>
3.1 FLOODING HOTSPOTS .....	31
3.2 CREEK GAGE MONITORING .....	31
3.3 SANDBAG OPERATIONS .....	31
3.4 ASSIGNMENT OF RESOURCES .....	32
3.5 POST DISASTER RESPONSE AND RECOVERY PHASES .....	35
3.6 DEMOBILIZATION .....	38
<b>APPENDICES .....</b>	<b>39</b>
APPENDIX 1: LIST OF ACRONYMS .....	40
APPENDIX 2: EOC ORGANIZATION STRUCTURE .....	41
APPENDIX 3: HAZARD ANALYSIS .....	42
<i>Causes Of Flooding</i> .....	42
HISTORICAL FLOODING .....	49
<i>Flooding Hotspots</i> .....	51
<i>Repetitive Loss Areas Analysis</i> .....	52
DEVELOPMENT EXPOSED TO FLOODING .....	55
<i>Types Of Land Exposed To Flooding</i> .....	55
<i>Types Of Buildings Exposed To Flooding</i> .....	55
<i>Critical Facilities</i> .....	57
IMPACTS TO LIFE, HEALTH, SAFETY AND COMMUNITY .....	58
<i>Life Safety</i> .....	58
<i>Public Health</i> .....	60
<i>Community Infrastructure</i> .....	600

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## 1 PURPOSE/SCOPE

A Flood Warning and Response Plan emphasizes timely identification of impending flood threats, dissemination of warnings to appropriate floodplain occupants, and coordination of flood response activities to reduce the threat and/or impacts to life and property. Activities in the plan focus on the Pinellas County's actions and related plans, and efforts coordinated across various jurisdictions and with Pinellas County Emergency Management (PCEM).

With sufficient warning of potential flooding, a community can take protective measures to mitigate potential damage. A flood threat recognition system integrated with an emergency response plan and a multi-level flood inundation map(s) enables emergency warning dissemination to the public and critical facilities for different types of flood events. This is the basis of flood warning and response and is part of the emergency management preparedness cycle.

This Flood Warning and Response Plan is included in *Pinellas County's Comprehensive Emergency Management Plan (CEMP) Volume II – Hazard Specific Plans*. The CEMP establishes a framework through which Pinellas County and its municipalities prepare for, respond to, recover from, and mitigate the impacts of a wide variety of disasters. Both this plan, as well as the CEMP, make references to the County's Local Mitigation Strategy (LMS). The LMS, adopted in 2020 and annually updated, contains a detailed vulnerability assessment of Pinellas County for natural and technological hazards. The assessment identifies the hazards that the County could face and the probabilities of occurrence.

Event specific situations may require a modification to these operations. Agencies supporting this plan should be familiar with the operations, take all necessary training as identified in the job descriptions in the Appendices and participate in any exercises to test the plan, as able.

***Each entity identified herein will utilize this plan as the basis for development and maintenance of subordinate plans, response policies, and implementing procedures. The existence of this plan does not relieve response organizations or local jurisdictions from the duty of developing their own Standard Operating Procedures.***

## 2 DIRECTION & CONTROL

Implementation of the Flood Warning and Response Plan will fall under Pinellas County Public Works (PCPW) or the local jurisdiction for small or localized events and countywide or major events will be coordinated through the Pinellas County Emergency Operations Center (EOC). PCPW, PCEM, and the local jurisdictions have established communications to convey and communicate threats and impacts of events.

## **Roles and Responsibilities**

### **Pinellas County Public Works (PCPW)**

- Lead agency for this plan
- Designated Pinellas County Floodplain Administrator position within agency
- Responsible for monitoring gages, clearing and notifying partners of concerns regarding flooding hot spots, and incidents or areas that are prone to flooding
- Assist with the development of Geographic Information Systems data and mapping
- Leads the Pinellas County Flood Risk and Mitigation Public Information Working Group
- Establishes areas for Substantial Damage determination inspections to be performed by PCBDRS; provides SD report to FEMA
- High water mark data collection

### **Pinellas County Emergency Management (PCEM)**

- Support agency for this plan.
- Overall coordination of warning and response activities outlined in this plan.
- Develop and implement hazards awareness and preparedness programs in coordination with partner agencies.
- Participate in the Pinellas County Flood Risk and Mitigation Public Information Working Group.

### **Pinellas County Building and Development Review Services (PCBDRS)**

- Conduct damage assessments in coordination with PCDAS and PCPAO by providing personnel, vehicles, and communications equipment to County Damage Assessment Teams<sup>1</sup>.
- Substantial Damage (SD) Determinations – Building inspectors will place SD door hangers and assess certain structures located in the FEMA SFHA and/or within Pinellas County determined floodplains which may have received substantial damage. SD inspection areas are established by PCPW. PCBDRS provides SD reports to PCPW to submit to FEMA.
- Permitting - Establish an emergency permit center to make feasible the emergency repair permits process to residents and business owners. This process will help ensure that all work performed during this period is performed by licensed contractors, is performed correctly, and properly inspected.
- Code compliance - Plans reviewers will ensure code compliance, including but not limited to Substantial Improvement (SI) via the permit review and inspection processes. Code enforcement will inspect impacted areas to help ensure all repair work is properly permitted.

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<sup>1,2,3</sup> CEMP Appendix 1: Roles and Responsibilities

**Pinellas County Communications (PCC)**

- Assists with the development and dissemination of public information and alerts in multiple languages and on various platforms including social media
- Participate in the Pinellas County Flood Risk and Mitigation Public Information Working Group

**Pinellas County Department of Administrative Services (PCDAS)**

- Lead the EOC Damage Assessment Unit responsible for coordinating damage assessment operations across the county<sup>2</sup>.

**Pinellas County Property Appraiser (PCPAO)**

- Conduct damage assessment operations in coordination with PCDAS and PCBDRS<sup>3</sup>.

**Pinellas County Sustainability and Resiliency**

- Assist with the analysis and planning for sea level rise and climate change related flood issues
- Assist with integration and identification of mitigation projects into the County Capital Improvement Planning
- Lead for sustainability and resilience issues

**Pinellas County Utilities**

- Inspect PCU facilities and service areas for damage, downed trees, and power availability
- Coordinate Duke Energy requests and communication for power restoration and mitigation throughout the system and stations
- Monitoring, tracking and management of all things related to the quality of drinking water and wastewater including required reporting and tracking of overflow (SSO) events

**Municipalities**

- Support agencies for this plan
- Coordinate efforts for dissemination of public information and warning
- Assists with response and recovery efforts
- Participate in the Pinellas County Flood Risk and Mitigation Public Information Working Group

**Fire Control Districts**

- Support agencies for this plan
- Coordinate efforts for dissemination of warning

- Assists with response and recovery efforts
- Participate in the Pinellas County Flood Risk and Mitigation Public Information Working Group

## 2.1 Public Education and Outreach

The County has several outreach projects on warning and safety precautions.

### **Pinellas County Multi-Jurisdictional Program for Public Information (PPI)**

The purpose of the PPI is to improve communication with residents, and to provide information about flood hazards, flood safety, flood insurance, and ways to protect property and natural floodplain functions to those who can benefit from it. Although this information is being effectively shared throughout the County, this program will better coordinate messages and materials, standardize the information being shared, and make it more accessible to County staff as well as the other local governments and agencies within the County<sup>4</sup>. The 2022 *Pinellas County Multi-Jurisdictional PPI*, which is Appendix H of the LMS, outlines the current public information efforts.

### **Flood Risk and Mitigation Public Information Working Group (FRMPIWG)**

The efforts of the PPI can affect and be affected by other related activities such as development of the Flood Warning and Response Plan, Flood Insurance Improvement Plan, and the Floodplain Management Plan, which is a component of the larger Local Mitigation Strategy (LMS). The Pinellas County Flood Risk and Mitigation Public Information Working Group represents a unique opportunity to coordinate and improve consistency in messaging countywide and avoid duplication of efforts among the various initiatives to reduce flood risk and damage. The working group will cover the basic CRS PPI requirements, but they will also be evaluating Flood Insurance Coverage, Floodplain Management, Flood Warning and Response, and providing input to the multi-jurisdictional LMS<sup>5</sup>.

### **Evacuation Zone Updates**

In 2022 PCEM released an updated version of our evacuation zones. This was based off of an updated National Hurricane Center's (NHC) Sea Lake Overland Surge from Hurricanes (SLOSH) Model, these are updated by the National Hurricane Center every 4-5 years. This update also utilized updated lidar data and more refined data points that have a smaller special distance and provide a more refined inundation footprint.

92,954 people had a change to their evacuation zone, this was about 47,747 households about 9.2% of our overall households. 6.6% had an increase in risk, meaning they went from

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<sup>4</sup> 2022 Pinellas County Multi-Jurisdictional PPI Introduction

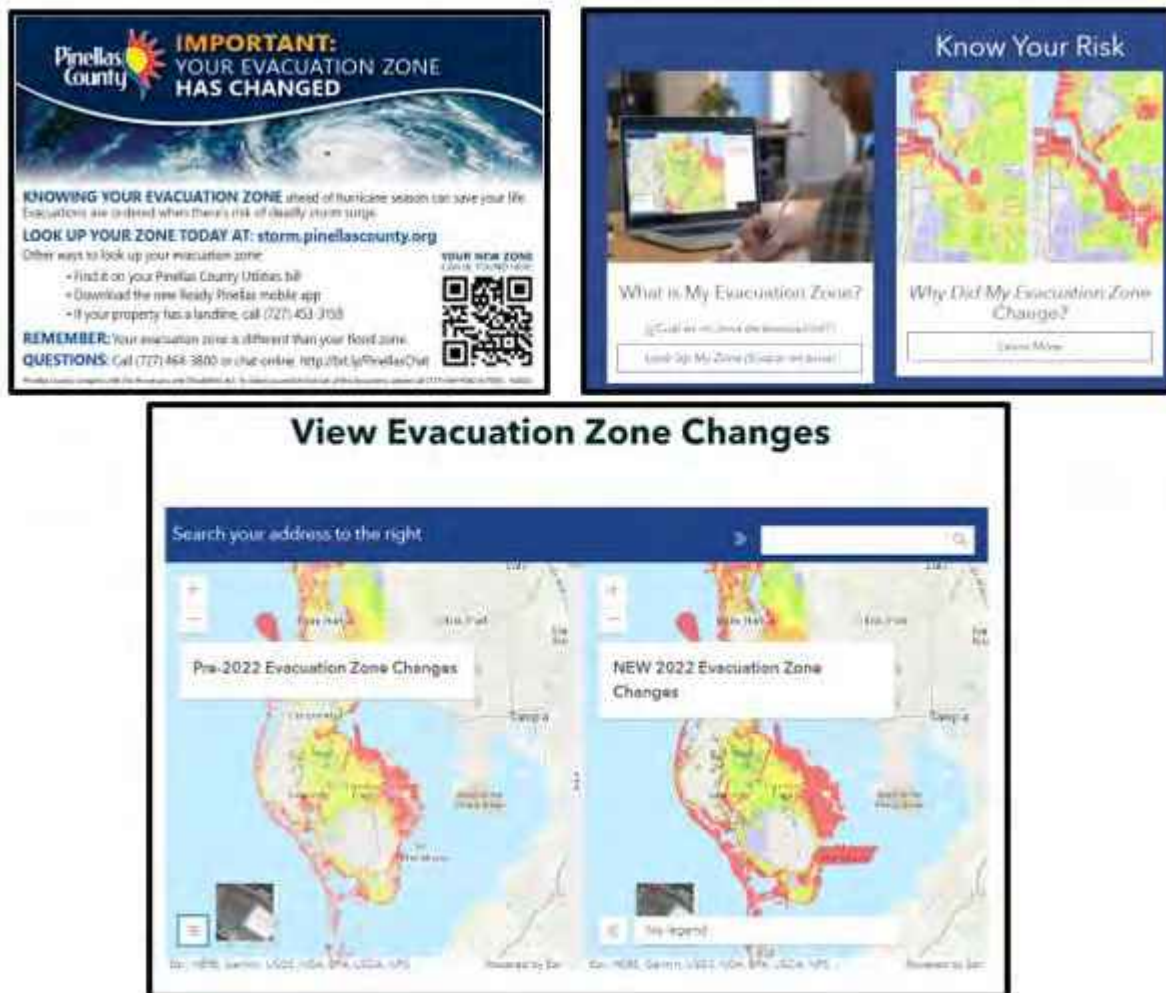
<sup>5</sup> 2022 Pinellas County Multi-Jurisdictional PPI Planning Committee

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a higher evac level to a lower one and 2.6% decreased in evacuation level risk. PCEM mailed out 58,956 postcards to the address and owners of the address, if different, and embarked on a very active media campaign.

Pinellas County set up a weblink so people could either look up their new zone and see a side by side comparison and also provided a story map to explain why the evacuation zone changed. The website had 21,000 hits in the month that followed as a result of this outreach.

*Figure 1: 2022 Outreach for Evacuation Zone Changes*



### **Hurricane/All Hazards Preparedness Guide**

Pinellas County develops a Hurricane/All Hazards Preparedness Guide annually. The guide contains information on severe weather and man-made hazards, and contains planning guidelines for homeowners, renters, businesses, special needs residents, and residents with pets and/or children.



Printed copies of these guides are distributed throughout the community, including through municipalities, government offices, libraries, and other locations. Guides are created in English, Spanish, and Vietnamese and large print is available upon request.

Additional information about the Hurricane/All Hazards Preparedness Guide, including the current versions of the guides, can be found at Pinellas County's website: <http://pinellascounty.org/emergency/allhazardguide.htm>.

### **Know Your Zone**

Residents are encouraged to enter their address into the Know Your Zone application to get information on their evacuation zone, as well as the closest public shelter, special needs shelter, and hotel accommodations.

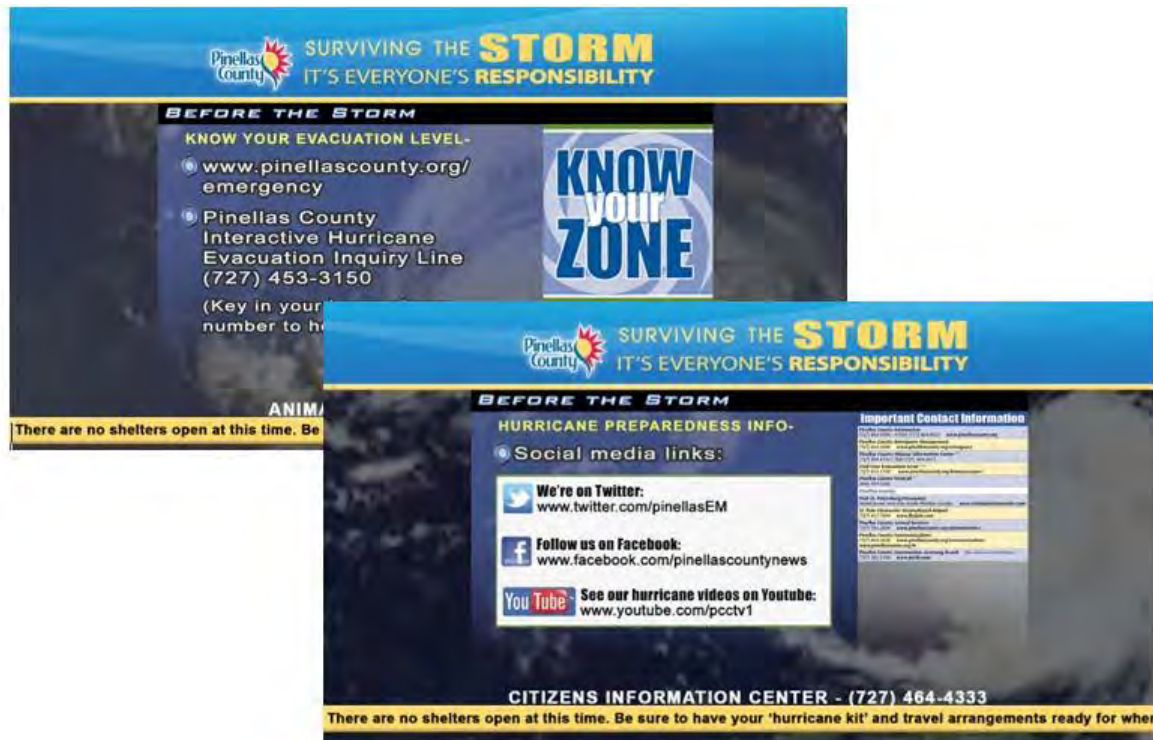
### **Pinellas County Public Connection Television (PCC-TV)**

Pinellas County, through PCC, runs a public access channel for airing both scheduled and live programming. BCC meetings are televised live and repeated during the week with closed-captioning available for the hearing impaired. When not broadcasting live presentations/meetings, informative presentations and programming is scheduled (including emergency preparedness and planning tips). During an emergency, regular programming on PCC-TV is cancelled and programming is devoted to broadcasting emergency information to county residents.

Additional information about PCC-TV, including live streaming video, can be found at Pinellas County's website: <http://www.pinellascounty.org/tv/>.



Figure 2: PCC-TV with scrolling alerts



## Preparedness Events

PCEM and partners conduct preparedness events to include educational materials and, in some cases, some hurricane kit supplies, to the community. Events in partnership with other community agencies, such as senior centers or community feeding partners help reach at risk populations.

## Public Transportation Vehicle Signage

PCEM, PCC, and PSTA partnered together to display preparedness messaging inside PSTA buses and other public transportation vehicles. These signs display information in English and Spanish to residents, such as how to find their evacuation zone, registering for Alert Pinellas, and registering for special needs evacuation assistance.

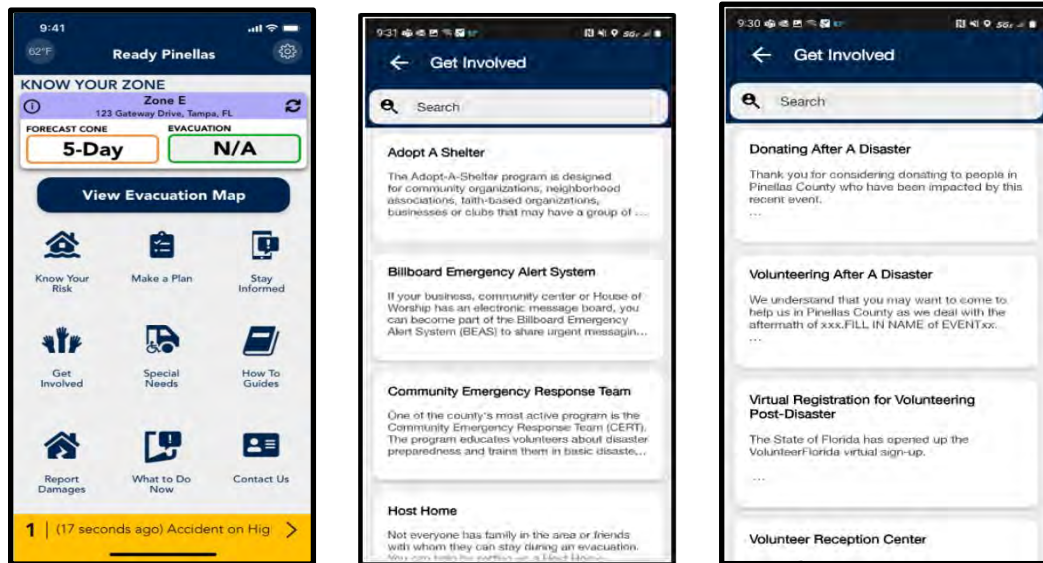
## Ready Pinellas Mobile Application

Pinellas County maintains a mobile application, *Ready Pinellas*, designed to help residents prepare themselves and their families before a storm and as a storm approaches. The application connects residents to features such as readiness checklists, planning resources such as *Know Your Zone* and *Alert Pinellas*, and track storms as they approach. This application allows for real time notifications, has emergency preparedness information and tips and will feature blue and grey sky information.

Ready Pinellas will geolocate the users position to let them know what evacuation zone their current location, or a location they type in, is in and will update to let people know if that area

is under an evacuation order. Real time notifications are tied into the National Weather Service as well as Alert Pinellas to push information to people's phones. A preparedness checklist along with photos for inventory of items can also be developed in the application. This app is currently in English and is being translated into Spanish

*Figure 3: Ready Pinellas Mobile Application*



Additional information about *Ready Pinellas* can be found at Pinellas County's website: <http://www.pinellascounty.org/readypinellas/>

## Severe Weather Awareness Week

Severe weather awareness week occurs in February and highlights a variety of topics. The NWS provides educational materials that are promoted by PCEM and other partners. PCEM conducts an interactive tornado drill with partners and the community every year.

Additional information on the annual Severe Weather Awareness Week, including information about the statewide tornado drill partnership, can be found on FDEM's website: <https://www.floridadisaster.org/dem/directors-office/media/swaw/>.

## Storm Surge Signs

Pinellas County, in partnership with Pinellas County School Board and municipalities, has numerous signs depicting the potential height of storm surge from a major hurricane at various locations throughout the county. The signs provide residents a visual depiction of how high storm surge could reach in the community and reminding them to know their evacuation zone by going to the County's website.

## Strategic Marketing and Outreach Plan

PCEM maintains a Strategic Marketing and Outreach Plan that is updated annually to approach outreach with the goals of engaging and empowering whole community partners, addressing at-risk populations and promoting resilient communities through innovative uses

of traditional communications tools and developing technologies. This plan outlines the strategies that will be implemented in the calendar year for marketing and outreach.

### **Pinellas County Website**

Pinellas County maintains a website to provide an array of information to residents. The website allows residents to look up evacuation zones, evacuation routes, provides disaster planning tips, and updates on emergency situations.

Information and updates to the website can be found at: <http://www.pinellascounty.org/>.

Figure 4: Pinellas County Storm Risk Tools <https://storm.pinellascounty.org/>

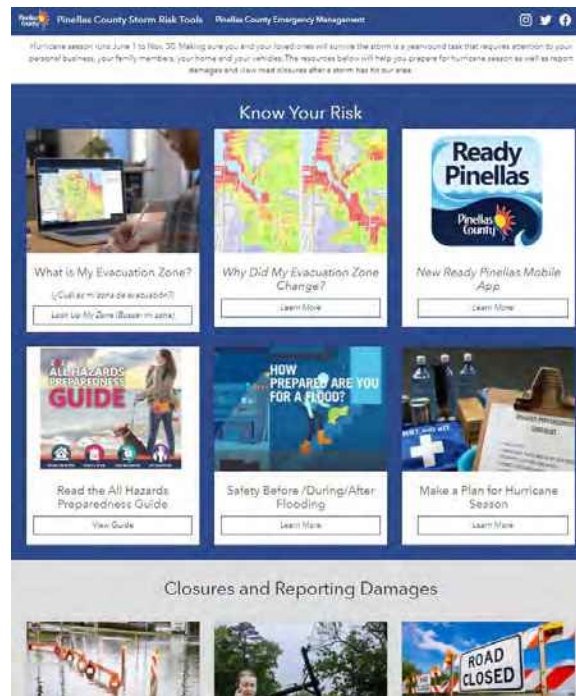
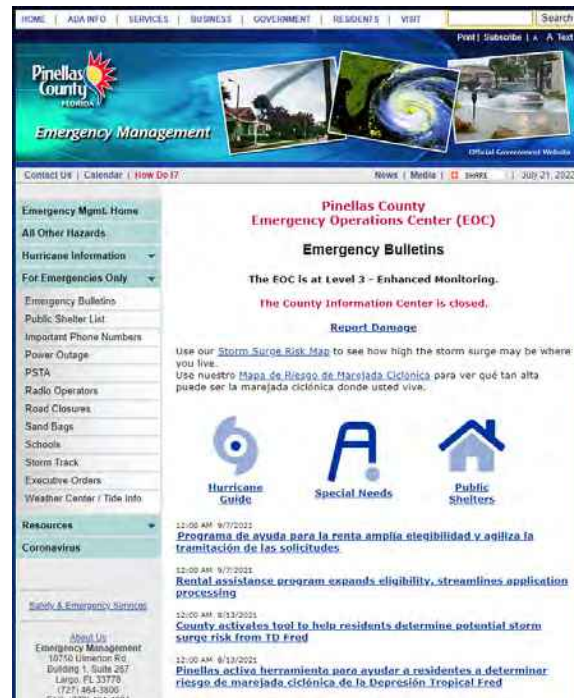


Figure 5: PCEM Emergency Bulletin page [www.pinellascounty.org/emergency/bulletin.htm](http://www.pinellascounty.org/emergency/bulletin.htm)



## 2.2 Alert & Notification

PCPW Floodplain Administrator monitors for tidal impacts of flooding and gauges of critical waterways. PCEM and the Floodplain Administrator work in conjunction when a potential flood threat is received and coordinate response and notification. Pinellas County utilizes a variety of platforms to convey threats and impacts to the community. PCEM maintains a *Warning and Notification Standard Operating Guide (SOG)* along with specific job aids for the implementation of warning systems. PCC maintains the *Emergency Support Function #14 Public Information Office SOG* documenting the procedures and flow of information.

### Flood Threat Recognition System (FTR)

PCEM implements a FTR through participation with the NWS alert system, a CRS Level 3 Automated flood warning system, as its primary means of notification of impending flood. Features of this automated flood warning system include:

- Capable of receiving flood warnings 24 hours a day, 7 days a week.
- Notifications are for flooding throughout the entire county, including riverine and coastal flooding.
- Alerts received through weather alert radio system, as well as email and text alerts sent to workstations and mobile devices.
- Provides forecast information.



Pinellas County also has flood inundation data and maps for the entire county (floodmaps.pinellascounty.org and Section 2.4). Additionally, stream flow, stage and rainfall gages are monitored as a secondary means of forecasting flooding (*Figure 6*). These gages are the basis for a flood threat recognition system that matches gage readings to flooding potential based on modeling results. PCPW has conducted watershed management studies that cover most of the County. These management plans include detailed stormwater models that identify areas at risk for flooding. These models were used to identify a series of flooding scenarios based on gage elevations and rainfall amount. These gages cover the major waterbodies, including:

- Allen's Creek
- Alligator Creek
- Brooker Creek
- Clam Bayou
- Cross Bayou
- Curlew Creek
- Lake Tarpon
- Long Branch
- McKay Bay
- McKay Creek
- Roosevelt Canal
- Sawgrass Lake
- Seminole Lake

When a rainfall event happens, PCPW staff reviews the real-time gage elevations. For example, the gages on the County's Water Atlas system can automatically notify staff when the water level reaches a critical elevation. The activities and information are coordinated between PCEM and PCPW. When there is an impending storm, these gages are monitored and cross referenced with known areas of risks. Staff can determine which areas are at risk because they keep records about what gage elevations will trigger a flooding event (*Figure 6*). Standard operating procedures for monitoring the gages and what activities to implement at certain gage elevations are documented in the *PCPW Emergency Response Plan*.

The gages are maintained by several agencies, including PCPW, United States Geological Survey (USGS), Southwest Florida Water Management District, Port Authority and National Oceanic and Atmospheric Administration (NOAA).

**Figure 6: Pinellas County Gages**



## Emergency Warning Dissemination (EWD)

During an emergency, Pinellas County officials need to provide the public with life-saving information quickly. Pinellas County has a procedure to disseminate flood information to the entire county via an array of warning and notification tools that allows them to communicate with internal and core community partner agencies, as well as the general public through a self-subscription option and a reverse-911 capability<sup>6</sup>.

## Pre-Scripted Messages

Once the flood threat recognition system alerts to which areas will be flooded and when, warnings are issued to the affected populations. PCEM in coordination with PCPW and PCC issues pre-scripted messages as defined in the *Flood Warning and Response Toolkit* to reduce the time gap between when warnings are issued, and actions take place. The messages are conveyed at the appropriate times before, during and after the storm. The warning messages state when flooding is predicted to occur, its expected severity, and appropriate response actions (e.g., evacuation routes, safe shelters, protective actions).

The pre-scripted messages are disseminated through various warning and notification tools. These messages are also communicated to partner agencies to help disseminate the information to the public. *Figures 7 and 8* describes some example pre-scripted messages.

<sup>6</sup> Pinellas County CEMP Section 5.7 and PCEM Warning and Notification SOG

**Figure 7: Example EOC Pre-Scripted Messages**

Topic	Timing	FRP Message	Outcome
1 Know your flood hazard	After	[Name of roads or areas] is still experiencing flooding conditions from yesterday's storm. Stay tuned or visit website for up to date flood hazard info.	Fewer stranded people and/or pets vehicles
1 Know your flood hazard	After	Updates will continue to be posted on the Pinellas County website, and on social media using the hashtag #PinellasWx.	Informed residents will take appropriate actions
1 Know your flood hazard	After	Follow reentry orders and avoid flooded areas.	Reduced emergency response calls and injuries
3 Protect people from the hazard	After	The Citizen Information Center is open and residents can call (727) 464-4333 to report issues.	County will know where response efforts are needed
3 Protect people from the hazard	After	Pinellas County officials are urging residents to avoid driving through high water.	Fewer stranded people and/or pets vehicles
3 Protect people from the hazard	After	[Emergency shelters remain opened at [locations] for residents whose homes were flooded during the storm.]	Fewer displaced people
3 Protect people from the hazard	After	Take extra care in the prevention of mosquitoes breeding in standing water and remember the 3 Ds: Drain water when possible; Dress in light colors and cover all parts of the body; Defend with DEET, Picaridin or Oil of Lemon Eucalyptus.	Reduced mosquitoes and resulting disease
3 Protect people from the hazard	After	Stay out of standing water or structures until authorities advise it is safe.	Fewer injuries
4 Protect your property from the hazard	After	Pinellas County emergency crews are being dispatched to areas affected by the heavy rain event that occurred [time].	Informed residents will take appropriate actions
4 Protect your property from the hazard	After	If your home or business has flooded, remove wet contents promptly to prevent mold. Wet carpeting, furniture, bedding and other items holding moisture can develop mold within 24 to 48 hours. Clean and disinfect everything that got wet. Mud left from floodwater can contain sewage and chemicals. Do not discard damaged carpet and contents until after the	Faster recovery and increased accuracy of flood insurance claims payments

**Figure 8: Flood Response Pre-Scripted Messages**

Before	During	After	All		Billboard Emergency Alert System (BEAS)	Intelligent Transportation System (ITS)	Press Release	
<b>Citizen Information Center (CIC)</b> Pinellas County Emergency Management <i>[Emergency Management Coordinator]</i>  The Citizen Information Center (CIC) would activate for this incident and risk level. See CIC SOG for additional information and activation procedure.	<b>Alert Pinellas - All Call/Text</b> Pinellas County Emergency Management <i>[Emergency Management Coordinator]</i>  <b>ALERT PINELLAS:</b> Dangerous flooding conditions are expected in coastal areas. Coastal flooding of [flooding height specific] is expected along coastal areas of Pinellas County [timeframe]. Turn in to local media for flood watches and warnings. Prepare your property for potential flooding. For information about how to prepare visit <a href="http://www.pinellascounty.org/flooding">www.pinellascounty.org/flooding</a>	<b>Alert Pinellas - All Call Email</b> Pinellas County Emergency Management <i>[Emergency Management Coordinator]</i>  <b>ALERT PINELLAS:</b> Dangerous flooding conditions are expected in coastal areas. Coastal flooding of [flooding height specific] is expected along coastal areas of Pinellas County [timeframe]. Turn in to local media for flood watches and warnings. Prepare your property for potential flooding. For information about how to prepare visit <a href="http://www.pinellascounty.org/flooding">www.pinellascounty.org/flooding</a>	<b>Alert Pinellas - Opt In Text</b> Pinellas County Emergency Management <i>[Emergency Management Coordinator]</i>  <b>ALERT PINELLAS:</b> Prepare for potential flooding along coastal areas of Pinellas County. Avoid driving through flooded areas. BRAKE, DON'T WAVE! Vals from vehicles traveling on flooded roads causes more property damage than the rising water alone.	<b>Alert Pinellas - Opt In Email</b> Pinellas County Emergency Management <i>[Emergency Management Coordinator]</i>  <b>ALERT PINELLAS:</b> Prepare for potential flooding along coastal areas of Pinellas County. Avoid driving through flooded areas. BRAKE, DON'T WAVE! Vals from vehicles traveling on flooded roads causes more property damage than the rising water alone.	<b>Billboard Emergency Alert System (BEAS)</b> Pinellas County Emergency Management <i>[Public Education and Outreach Coordinator]</i>  FLOODING EXPECTED TODAY	<b>Intelligent Transportation System (ITS)</b> Pinellas County Public Works - Traffic <i>[Traffic Operations Center]</i>  FLOODING EXPECTED TODAY	<b>Press Release</b> Pinellas County Marketing & Communications <i>[Public Information Officer]</i>  Dangerous flooding conditions are expected in coastal areas. Coastal flooding of [flooding height specific] is expected along coastal areas of Pinellas County [timeframe].	Pinellas Coos <i>[Pub]</i>
		Stay tuned for weather updates through weather alert radios, local media outlets, the county website and county social media accounts.	Turn Around, Don't Drive. Only 6 inches of fast-flowing water can sweep you off your feet and one foot can carry away cars.	Turn Around, Don't Drive. Only 6 inches of fast-flowing water can sweep you off your feet and one foot can carry away cars.	DO NOT DRIVE THROUGH FLOODED ROADWAYS	DO NOT DRIVE THROUGH FLOODED ROADWAYS	The Citizen Information Center is open and residents can call (727) 464-4333 to report issues or for more information.	
		Review disaster plans for your family, business and property. Get your survival kit and important papers ready. Purchase any items you will need to complete your survival kit now to avoid long lines and limited supplies.	Stay tuned for weather updates through weather alert radios, local media outlets, the county website and county social media accounts.	Stay tuned for weather updates through weather alert radios, local media outlets, the county website and county social media accounts.			Stay connected and prepare ahead.	
		Coastal and barrier island residents are advised to prepare for potential localized flooding. Storm tides are expected to be _____ feet above normal forecast levels, with _____ foot breaking waves on the coast.	Review disaster plans for your family, business and property. Get your survival kit and important papers ready. Purchase any items you will need to complete your survival kit now to avoid long lines and limited supplies.	Review disaster plans for your family, business and property. Get your survival kit and important papers ready. Purchase any items you will need to complete your survival kit now to avoid long lines and limited supplies.			Follow local media outlets or tune in to NOAA weather radio stations 162.450 or 162.550 and follow us on Facebook, Twitter, and Nextdoor to stay informed and sign up for Alert Pinellas to receive text, phone and/or email notifications if flooding is expected in your area. Visit <a href="http://www.pinellascounty.org/alertpinellas">www.pinellascounty.org/alertpinellas</a> for more information and to sign up.	
		Coastal and barrier island residents are advised to prepare for potential localized flooding. Storm tides are expected to be _____ feet above normal forecast levels, with _____ foot breaking waves on the coast.	Coastal and barrier island residents are advised to prepare for potential localized flooding. Storm tides are expected to be _____ feet above normal forecast levels, with _____ foot breaking waves on the coast.	Coastal and barrier island residents are advised to prepare for potential localized flooding. Storm tides are expected to be _____ feet above normal forecast levels, with _____ foot breaking waves on the coast.			Prepare your property for potential flooding. For information about how to prepare visit <a href="http://www.pinellascounty.org/flooding">www.pinellascounty.org/flooding</a>	
							Take photos or video and inventory of your property.	



## 2.3 Warning and Notification Tools

### Alert Pinellas (Everbridge)

The County utilizes the commercial notification system 'Everbridge' to deliver tests at the beginning of each month to core partner agencies, municipal EM Coordinators, critical facilities and citizens. The municipalities, partner agencies and critical facilities primarily rely on text messages and email notifications. The general public can be communicated with via email, text messages, social media and reverse 911. The system is also capable of sending geo-targeted alert notifications to send messages to a specific geographic area.

### Billboard Emergency Alert System (BEAS) Program

The BEAS program is a voluntary public-private partnership between PCEM and privately and publicly owned electronic billboards. The BEAS program is designed to enhance the County's existing emergency alert systems in order to display emergency information such as severe weather alerts, evacuation information, and other critical information necessary to protect the lives and property of citizens, businesses, and visitors.

Additional information about the BEAS program can be found at Pinellas County's website: <http://www.pinellascounty.org/emergency/beas/>.

### Integrated Public Alert and Warning System (IPAWS)

IPAWS was created by FEMA in response Executive Order 13407, allowing for federal, state, and local governments to issue critical public alerts and warnings in their jurisdictions. Common examples of messages sent through IPAWS are America's Missing: Broadcasting Emergency Response (commonly known as AMBER) Alerts sent by FDLE and tornado warnings sent by NWS. Public alerting systems accessed through IPAWS includes:

- All-Hazards Emergency Message Collection System
- Emergency Alert System
- Internet Services
- Wireless Emergency Alerts

Pinellas County maintains access to IPAWS through a MOA with FEMA. Under this agreement, PCEM must demonstrate the ability to compose and send a message through IPAWS by conducting a monthly proficiency test. Pinellas County utilizes EMnet® and Everbridge® to access and send messages through IPAWS.

Additional information about IPAWS and the associated public alert systems can be found at FEMA's website: <https://www.fema.gov/emergency-managers/practitioners/integrated-public-alert-warning-system>.

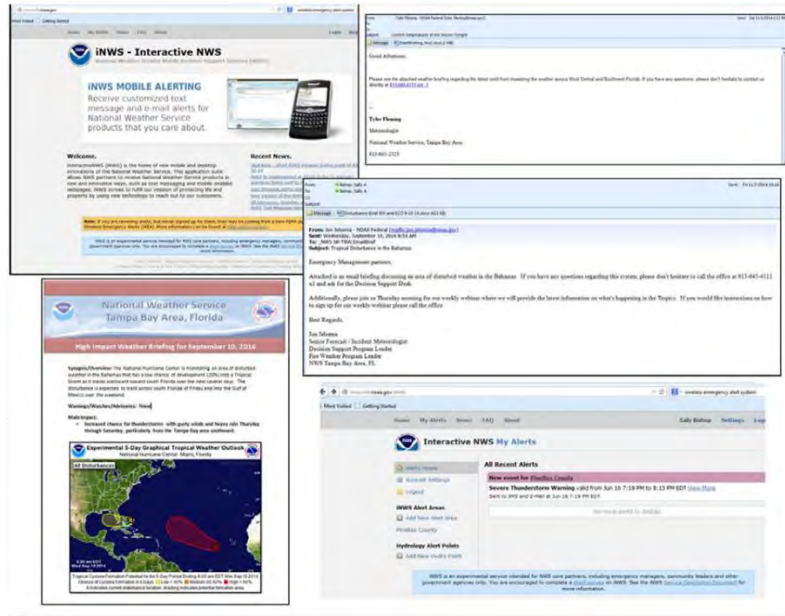
### iNWS Mobile Alerting

iNWS is a service intended for emergency managers, community leaders, and other government agencies, providing text and email notifications about NWS products (such as

watches, warnings, and advisories) issued for their jurisdiction, allowing these stakeholders to take and encourage protective actions.

Additional information about iNWS, including how partner agencies can register, can be found on the NWS's website: <https://inws.ncep.noaa.gov/>.

Figure 9: iNWS Alerts



## Roadway Dynamic Messaging Signs

Pinellas County Public Works (PCPW) utilizes a series of Dynamic Messaging Signs (DMS) as part of the County's larger Advanced Transportation Management System and Intelligent Transportation System ATMS/ITS). These DMS have the ability to display messages on digital signage across major roadways, both during non-emergency and emergency situations.

Additional information about the PCPW ATMS/ITS DMS can be found at Pinellas County's website: <http://www.pinellascounty.org/publicworks/its.htm>.

## Street Outreach Teams

Street outreach programs for homeless individuals maintain frequent contact with unsheltered individuals during hurricane season to ensure they are aware of the status of any impending storms, can locate pick-up locations for transportation in the event of an evacuation, and can access special needs disaster shelters or pet-friendly disaster shelters, as appropriate. In addition to providing information through street outreach, this information is shared at meal sites, day programs, and similar service locations.

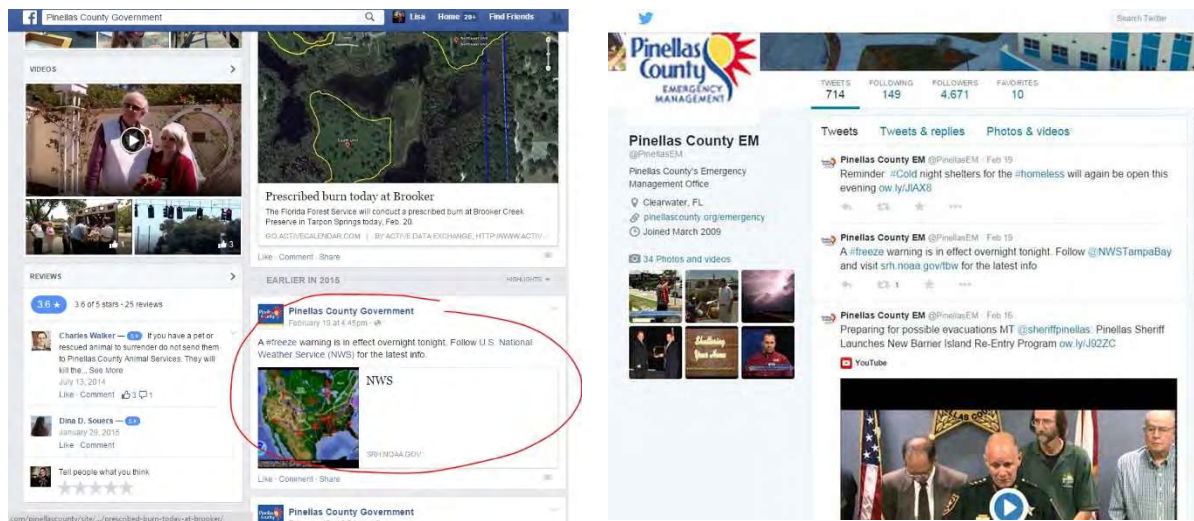
## Social Media

Pinellas County and its departments operate a variety of social media accounts to share information and awareness campaign messaging to residents<sup>7</sup>. This includes accounts on the following social media platforms:

- LinkedIn
- NextDoor
- Flickr
- YouTube
- Instagram
- Facebook (*Figure 10*)
- Twitter (*Error! Reference source not found.10*)

Additional information on Pinellas County's social media sites, including links to the currently active accounts, can be found at: <http://www.pinellascounty.org/social-networking.htm>.

*Figure 10: Pinellas County Facebook News and Twitter Feeds*



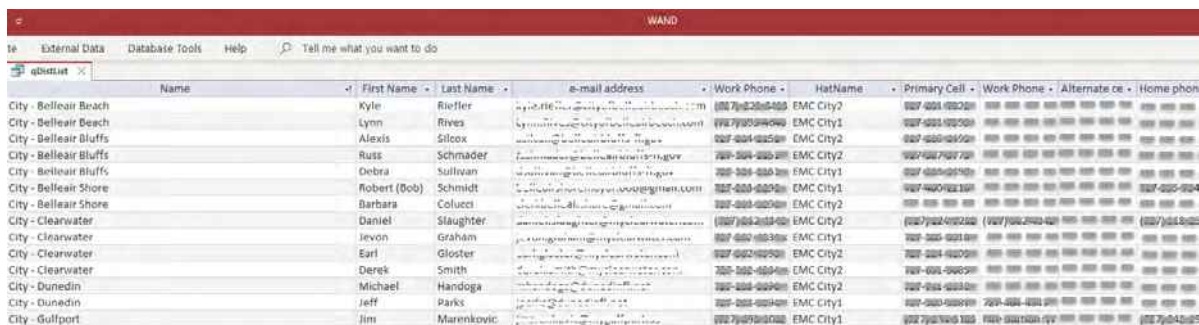
<sup>7</sup> Managed in accordance with Pinellas County Administrative Directive Number 3.2.

## Warning and Notification Database (WAND)

PCEM maintains a database of contacts used for emergency and day to day communications with internal and external agencies. These contacts cover various critical sectors such as municipalities and special fire districts, County departments, EOC staff, hospitals, utilities/infrastructure personnel, community groups, volunteer groups, among others. The WAND can be utilized to quickly identify contact information for warning and notification purposes.

The WAND is updated by PCEM at least annually, with additional maintenance occurring based upon monthly testing and as requested/needed. An example of a report from the WAND is shown in *Figure 11*.

*Figure 11: WAND Database Report Example*



Name	First Name	Last Name	e-mail address	Work Phone	HatName	Primary Cell	Work Phone	Alternate ce	Home phone
City - Belleair Beach	Kyle	Rieffer	k.rieffer@belleairbeach.org	727-326-4444	EMC City2	927-424-0920	727-326-4444	727-326-4444	727-326-4444
City - Belleair Beach	Lynn	Rives	lynn.rives@belleairbeach.org	727-326-4444	EMC City1	927-424-0920	727-326-4444	727-326-4444	727-326-4444
City - Belleair Bluffs	Alexis	Silcock	alexis.silcock@belleairbluffs.org	727-424-0250	EMC City2	927-424-0920	727-326-4444	727-326-4444	727-326-4444
City - Belleair Bluffs	Russ	Schmader	russ.schmader@belleairbluffs.org	727-326-4444	EMC City2	927-424-0920	727-326-4444	727-326-4444	727-326-4444
City - Belleair Bluffs	Debra	Sullivan	debra.sullivan@belleairbluffs.org	727-326-4444	EMC City1	927-424-0920	727-326-4444	727-326-4444	727-326-4444
City - Belleair Shore	Robert (Bob)	Schmidt	robert.schmidt@belleairshore.org	727-326-4444	EMC City1	927-424-0920	727-326-4444	727-326-4444	727-326-4444
City - Belleair Shore	Barbara	Colucci	barbara.colucci@belleairshore.org	727-326-4444	EMC City2	927-424-0920	727-326-4444	727-326-4444	727-326-4444
City - Clearwater	Daniel	Slaughter	daniel.slaughter@clearwater.org	727-326-4444	EMC City2	927-424-0920	727-326-4444	727-326-4444	727-326-4444
City - Clearwater	Jevon	Graham	jevon.graham@clearwater.org	727-326-4444	EMC City1	927-424-0920	727-326-4444	727-326-4444	727-326-4444
City - Clearwater	Earl	Gloster	earl.gloster@clearwater.org	727-326-4444	EMC City2	927-424-0920	727-326-4444	727-326-4444	727-326-4444
City - Clearwater	Derek	Smith	derek.smith@clearwater.org	727-326-4444	EMC City2	927-424-0920	727-326-4444	727-326-4444	727-326-4444
City - Dunedin	Michael	Handoga	michael.handoga@dunedin.org	727-326-4444	EMC City2	927-424-0920	727-326-4444	727-326-4444	727-326-4444
City - Dunedin	Jeff	Parks	jeff.parks@dunedin.org	727-326-4444	EMC City1	927-424-0920	727-326-4444	727-326-4444	727-326-4444
City - Gulfport	Jim	Marenkovic	jim.marenkovic@gulfport.org	727-326-4444	EMC City1	927-424-0920	727-326-4444	727-326-4444	727-326-4444

## NOAA Weather Radio All Hazards (NWR)

NWR is a nationwide network of radio stations broadcasting continuous weather information directly from the nearest NWS office. NWR broadcasts official Weather Service warnings, watches, forecasts and other hazard information 24 hours a day, 7 days a week. PCEM has initiated various projects to provide NWR capable radios to partner agencies, critical facilities and at-risk populations. Most recently, in 2022, PCEM initiated a project to improve critical warning notifications to at risk populations by identifying funding and distributing 1,700 NWR capable radios to identifies at risk communities.

## 2.4 Planning, Threat, and Impact Analysis

To accurately determine protective measure and response activities, Pinellas County maintains datasets and maps and integrates real time information including vulnerable populations, critical facilities and at-risk areas for various events that may cause flooding.

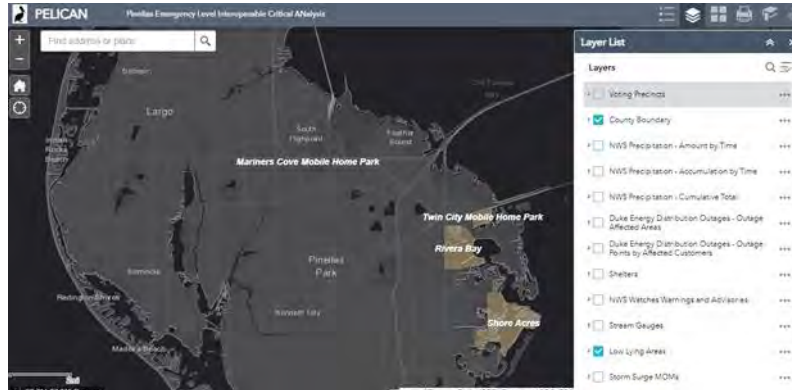
These data sets and tools can be utilized to convey threats to the community as well as provide for a way to collect data on impacts.

### Pinellas Emergency Level Interoperable Critical Analysis (PELICAN)

PELICAN is an internally created GIS analysis tool managed by PCBTS, allowing PCEM to make informed data-driven decisions from a variety of datasets. These datasets can include live data (such as weather radar, traffic reports, and weather station reports) and preplanned

static data (such as shelter locations, evacuation zones, and CIKR locations) overlaid to assist in the emergency management planning and decision making process.

*Figure 12: PELICAN Low Lying Areas layer*



### Critical Facilities Database

PCEM maintains a list of critical facilities that is updated annually to include:

- Airports
- Correctional Facilities
- Courthouses
- County and municipal buildings
- Emergency operations sites
- Faith based sites
- Fire Stations
- Law Enforcement/Police stations
- Public and Private Sector Critical Infrastructure (Structures and Systems)

### Healthcare Facilities Database

Pinellas County is required to review and approve emergency plans for health care facilities designated by their licensing as: Hospitals, Nursing Homes, Assisted Living Facilities, Adult Day Care Centers, Ambulatory Surgical Centers and Intermediate Care Facilities for the Developmentally Disabled. PCEM maintains a database of the residential healthcare facilities that have their healthcare facility CEMPs that it reviews. This database can be utilized to communicate with them for incidents that may impact their operations.



**Figure 13: Health Care Access Database Query Report**

Health Care Facilities sorted by Evacuation Level											
Facility Name	Transport	Evac Level	Address	Street	City	Phone	Tell Phone	Fax	Disaster Phone/Note	Contact	Title
Sunset Harbor Assisted Living	Own/Facility	A	522	Doric Ct.	Tarpon Springs	940-4781	437-8666	888-888-1401		Byron Richards	Exec. Director
Westminster Shores	Own/ Fac vehicles	A	125	58th Ave., So.	St. Petersburg	867-2131	417-9365	mshaw@wservices.org	Fax #: 866-8454	Michael Shaw	Executive Director
Wild Flower Inn	Own/POV	A	639	Michigan Blvd., #1500	Dunedin	736-0793	404-754	avahai@carewellglobal.com		Alka Vahai	Administrator
Palms of Pasadena Hospital	EM/EMS	A	1501	Pasadena Ave. So.	St. Petersburg	381-1000	424-7999	chuck.giorgio@hcahealthcare.com	Fax: 341-7790	Chuck Giorgio	Director of Plant
Sunrise Community Inc. - St. Petersburg Cluster	Own/Facility Vans	A	1101	102nd Ave. North	St. Petersburg	576-0492	453-9136	kmason@sunrisegroup.org	(fax) 576-0970	Kym Mason	Director
Health & Rehabilitation Center At Dolphins View	EM/EMS/WC Transport	A	1820	Shore Drive So.	South Pasadena	384-9300	816-402	663-9378	616-502-1360	Zachary Strunk	NHA
Gulfport Rehabilitation Center	Own/Fac	A	1430	Pasadena Ave. So.	St. Petersburg	344-8525	482-7055	855-887-9751		Sean O'Malley	Administrator
Shore Acres Rehabilitation & Health Center	EM/EMS	A	4500	Indianapolis St. N.E.	St. Petersburg	527-5801	613-770	522-4178	209-4600	Suresh V. Pai	Administrator

### Special Needs Database

PCEM maintains a registry for people who may need assistance with transportation or have medical conditions and may require specialized shelters or services for evacuation or be on life sustaining medical equipment that requires uninterrupted power supply. PCEM and the partner agencies prepare evacuation and sheltering planning assumptions on the current registry numbers.

### **Flood Mapping**

PCEM maintains a catalog of GIS data layers to assess the risk of storm surge in relation to tropical cyclones and riverine and urban flooding from rainfall events. The storm surge data is from the NHC SLOSH model. This data can be run as a composite of all directions of storms by category, (*Figure 14*) which is used to create Evacuation Zones or by direction with various speeds to provide an operational analysis for risk for particular storms. Riverine and urban flood inundation maps with flood elevations are developed through the Watershed Management Plan (WMP) program (*Figure 15*). Inundation risk can be evaluated by the depth of water above ground level (AGL) or flood elevation associated with a particular storm surge or precipitation forecast and overlaid with other factors data layers to provide real time situational awareness.

Figure 14: Surge depth analysis Category 3 depicted in PELICAN

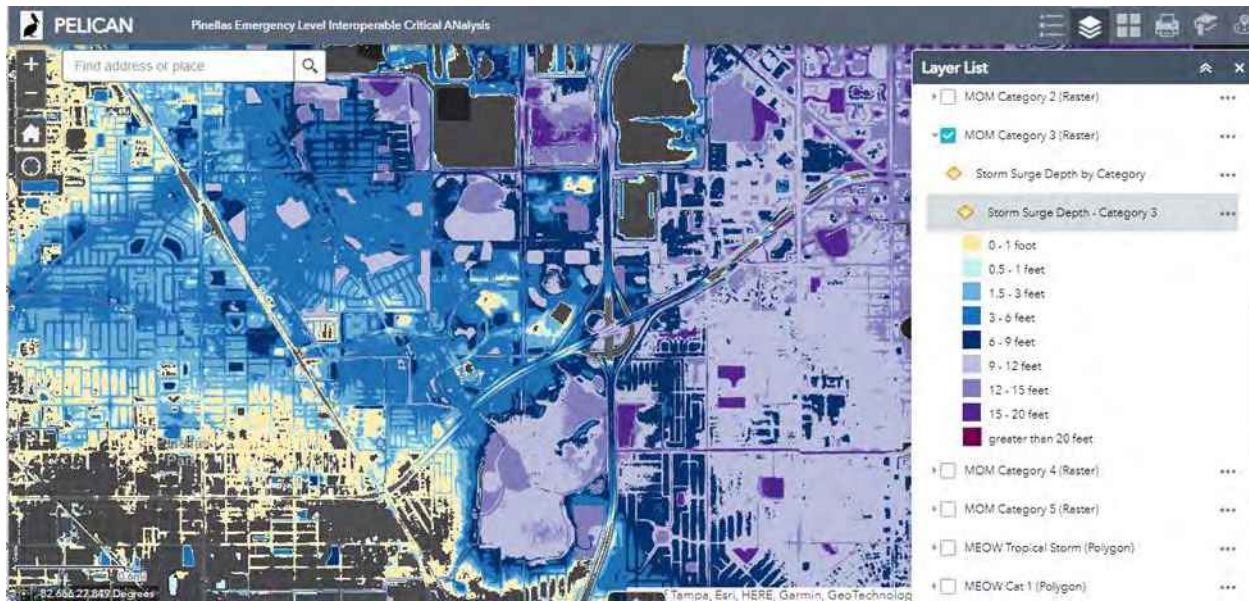


Figure 15: WMP Flood Inundation Maps with Flood Elevations



## Hurricane Evacuation (HURREVAC)

HURREVAC is a storm tracking and decision support software designed for governmental emergency managers to make evacuation and other critical tropical cyclone related



decisions. HURREVAC is administered by FEMA, the Army Corps of Engineers (ACE), and the National Oceanic and Atmospheric Administration (NOAA).

Within HURREVAC, storm surge modeling with the SLOSH model can be used to estimate storm surge heights based on variables such as a hurricane's size, forward speed, and trajectory. By running the SLOSH model thousands of times with hypothetical hurricane scenarios, the Maximum Envelopes of Water (MEOWs) and the Maximum of MEOWs (MOMs) are produced. MEOWs and MOMs help determine storm surge vulnerability, forming the basis for evacuation zone development.

Additional information about the SLOSH model can be found on the NHC website: <https://www.nhc.noaa.gov/surge/slosh.php>, and additional information about HURREVAC can be found on the software's website: <https://www.hurrevac.com/>.

## **Damage Assessment Reporting Tools**

### ArcGIS Collector Application

As the result of a disaster or other incident, the ArcGIS Collector application can be used by damage assessment personnel to record information from the field, such as location, severity, and photographs of damages from a mobile device (*Figure 17*).

*Figure 16: Pictures of damage assessment personnel conducting residential house-by-house assessments the morning of Wednesday, July 7. Photos courtesy of PCC.*





### Storm Impressions

Fire Districts utilize the Storm Impressions application on their mobile data terminals or through the internet to assess, collect, and communicate impact information to PCSES, PCEM, and other entities across the County to provide critical situational awareness about the scope and scale of damages. Storm Impressions displays a map of assessed locations, the level of damage, and additional notes regarding the impacts.

### Citizen Residential Damage Reporting Tool

After a disaster or other incident, Pinellas County may enable the Citizen Residential Damage Reporting tool to allow citizens to report residential damages (*Figure 18*).

*Figure 17: Citizen Residential Damage Reporting*

**Citizen Residential Damage Reporting**


Citizen form for self-residential damages.

**Official individual damages is not available at this time. Pinellas County is working diligently to document all residential damages to use to apply for potential state and federal emergency assistance. We need your help to report damages to ensure all of the County's damages are accounted for to increase our chances of receiving state or federal assistance.**

**First Name**  
Entering name is optional.

**Last Name**  
Entering name is optional.

**Damage Location:**  
Please provide location by looking up an address or by using the interactive map.



**Damage Address Information**

The following questions are in regards to the address at which you are reporting damage.

## **2.5 Training and Exercise**

Maintaining and implementing the training and exercise program is a continual effort, consisting of the identification, planning, and implementation to enhance readiness and assess operational knowledge and procedures. PCEM is responsible for the coordination of the local training and exercise program, including coordination with partner agencies, development of an Integrated Preparedness Plan (IPP). The IPP is developed through a strategic planning process with partners to address gaps, increase capabilities and practice operational response together. As part of the exercise and real-life incident process, PCEM

maintains a master Improvement Plan to help track items to inform the IPP and the PCEM Strategic Plan.

The County's warning dissemination systems are tested monthly. Pinellas County also participates in the Annual State Exercise that as a focus on the County's Operational Communications and Emergency Public Information and Warning confirming the ability of Pinellas County to issue emergency public warnings through established warning systems. The community has exercised these activities during actual events several times in recent years. Figure 18 and Figure 19 describe a situation report (Sitrep) from the exercise and a sample report showing the distribution of warning to the community during the exercise using one of the automated notification systems.

*Figure 18: Exercise Hurricane Amaranth Exercise Sitrep*


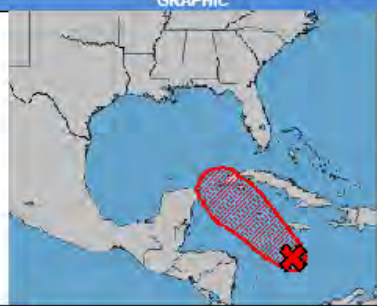
***EXERCISE EXERCISE EXERCISE***		
	<b>Pinellas County</b> Emergency Operations Center <b>SITUATION REPORT #1</b>	<b>CONTACT INFORMATION</b> Main: (727) 464-5550 FAX: (727) 464-4024 <a href="mailto:EMA@pinellascounty.org">EMA@pinellascounty.org</a>
1. INCIDENT NAME <b>Potential Tropical Cyclone</b>	2. DATE <b>05/01/2022</b>	3. TIME <b>11:30 AM</b>
4. EOC ACTIVATION LEVEL <b>Level 3 – Enhanced Monitoring</b>	5. LOCAL STATE OF EMERGENCY DECLARED? <b>No</b>	6. PREPARED BY <b>EOC Planning Section</b>
<b>CURRENT SITUATION</b>		<b>GRAPHIC</b>
<p>The National Hurricane Center is currently monitoring an area of disturbed weather in the Caribbean Sea for potential tropical cyclone development.</p> <p>The forecast for this area of disturbed weather indicates it will move over the western Caribbean Sea and then into the southern Gulf of Mexico over the next few days. The system may then move northeastward towards the Florida peninsula by Friday (05/06).</p> <p>The area of disturbed weather is forecast to become a Tropical Depression within the next 24 hours, and then a Tropical Storm shortly thereafter.</p> <p>PCEM recommends everyone review and complete preparedness actions.</p>		
<b>IMPACTS</b>		
<ul style="list-style-type: none"> <li>It is too early to determine what, if any, impacts Pinellas County could receive. PCEM is monitoring forecasts and is coordinating with the National Weather Service.</li> </ul>		
<b>COUNTY ACTIVITIES</b>		
<ul style="list-style-type: none"> <li>The EOC is activated to a Level 3 – Enhanced Monitoring. Use normal office numbers for PCEM staff.</li> <li>PCEM is monitoring the situation and coordinating with partners, including with the State on protective actions and unmet needs.</li> <li>Pinellas County Communications is coordinating preparedness messaging.</li> <li>The next Situation Report for this system will be issued tomorrow morning (05/02).</li> </ul>		
<b>RECOMMENDED ACTIONS</b>		
<ul style="list-style-type: none"> <li>Share weather forecasts and protective measure actions with your partners and communities.</li> <li>Review emergency plans and supplies.</li> <li>Monitor the weather reports on a regular basis:               <ul style="list-style-type: none"> <li>a. <a href="https://www.hurricanes.gov/">https://www.hurricanes.gov/</a></li> <li>b. <a href="http://weather.gov/tampabay">http://weather.gov/tampabay</a></li> </ul> </li> <li>Monitor Pinellas County Social Media Sites:               <ul style="list-style-type: none"> <li>a. <a href="https://www.facebook.com/PinellasCountyNews/">https://www.facebook.com/PinellasCountyNews/</a></li> <li>b. <a href="https://mobile.twitter.com/pinellasem">https://mobile.twitter.com/pinellasem</a></li> <li>c. <a href="http://www.pinellascounty.org/social-networking.htm">http://www.pinellascounty.org/social-networking.htm</a></li> </ul> </li> <li>Public Information Resources               <ul style="list-style-type: none"> <li>a. <a href="https://www.ready.gov/severe-weather-toolkit">https://www.ready.gov/severe-weather-toolkit</a></li> <li>b. <a href="http://pinellascounty.org/emergency/PDF/All_Hazard_Guide.pdf">http://pinellascounty.org/emergency/PDF/All_Hazard_Guide.pdf</a></li> </ul> </li> </ul>		
This Advisory is provided for informational purposes only. The user assumes the entire risk related to the use, or misuse, of its associated data.		
7. Approved By: <b>Cathie Perkins</b>	8. Title: <b>Emergency Management Director</b>	9. Date/Time: <b>05/01/2022 11:30 AM</b>
***EXERCISE EXERCISE EXERCISE*** <b>NOT A REAL SCENARIO</b>		



Figure 19: Example of Exercise Sitrep Distribution Report



### 3 FLOOD RESPONSE OPERATIONS (FRO)

Different threats and incidents will generate different response actions, including the type and level of coordination needed between agencies, including the convening of Multiagency Coordination (MAC) groups, EOC activation, or other response measures to ensure the public health, safety, and welfare of residents. Pinellas County's framework for response and operational coordination can be found in the *Pinellas County CEMP – Section 5 Response*. Appendix 2 contains the EOC organizational structure.

PCEM has identified levels of activation for the EOC that transition from coordination at the department level to countywide coordination. Agencies are activated depending upon the level of support needed from them and in conjunction with any protective, response or recovery efforts. Additional information on PCEM's activities and the expected or recommended actions from County departments and partner agencies at each EOC activation level can be found in *Pinellas County CEMP – Table 3*.

#### Level 4 – Normal Operations

Monitor local and regional incidents and evaluate potential threats.

#### Level 3 – Enhanced Monitoring

An incident requires PCEM to act or coordinate efforts. Notification to County Administration is made of incidents that require enhanced monitoring.

#### Level 2 – Partial Activation

An incident requires limited coordination/support at the EOC.

#### Level 1 – Full Activation

An incident requires high levels of coordination/support at the EOC.

The PCEM Director or designee may implement EOC Level 4 – Normal Operations and EOC Level 3 – Enhanced Monitoring on behalf of the department. EOC Level 2 – Partial Activation and EOC Level 1 – Full Activation are determined in conjunction with the Executive Policy Group (EPG).

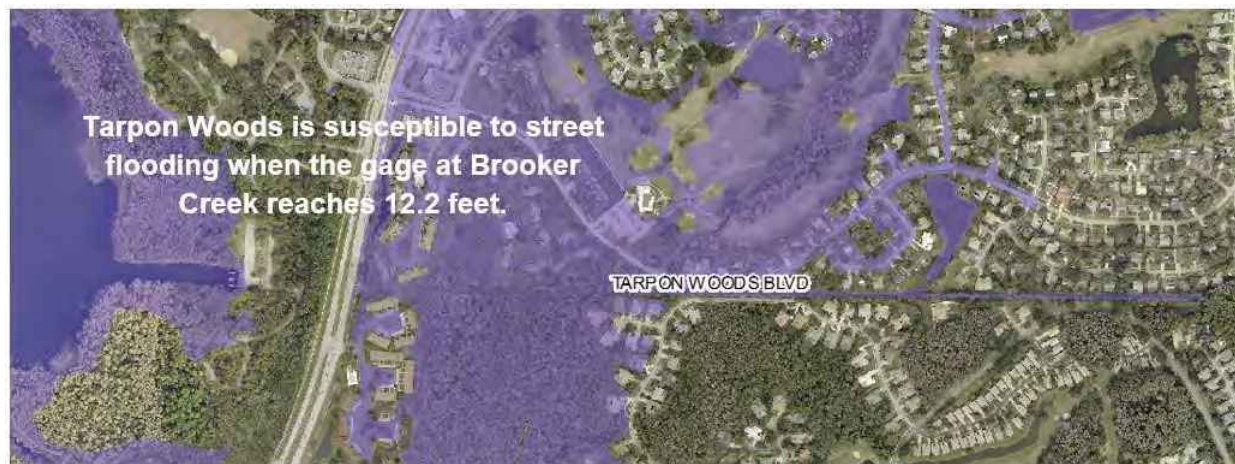
### 3.1 Flooding Hotspots

PCPW maintains a list of flooding “Hot Spots” that are reviewed in conjunction with updating the PCPW ERP<sup>8</sup>. Before an impending storm, PCPW staff will inspect and perform maintenance as necessary on systems in historically flood prone areas to make sure that the systems will have the maximum conveyance capacity for floodwaters.

### 3.2 Creek Gage Monitoring

All creek gages are to be monitored during heavy rains and storm conditions to ensure that any flooding potential is minimized by PCPW staff prior to and during an event. Gage data for Brooker Creek and Alligator Creek can be viewed through the USGS National Water Information Website. Ensure that public information is disseminated through all available sources before and during a storm event. PW FEOC staff will monitor gages throughout any storm<sup>9</sup>.

Figure 20: Gage Elevations Correlated to Flood Inundation Maps



### 3.3 Sandbag Operations

PCPW in coordination with the Pinellas County EOC EPG will determine the need to provide sandbags to unincorporated citizens prior to the arrival of a weather event forecasting flooding issues<sup>10</sup>. Municipalities may choose to provide sandbags to residents.

---

<sup>8</sup> 2022 PCPW ERP

<sup>9</sup> 2022 PCPW ERP Annex L: SOP for Creek Gage Monitoring

<sup>10</sup> 2022 PCPW ERP Annex M: SOP for Sandbag Operations

Figure 21: Pinellas County Sandbag Operations During Tropical Storm Elsa



### 3.4 Assignment Of Resources

In addition, each department maintains their standard operating procedures that outline the personnel, sequence, and timeline of activities to carry out during times of emergency. Specific tasks are assigned to departments to handle response and recovery activities. Furthermore, a department maintains the list of assigned personnel for specific teams or tasks (*Figure 21*). The Logistics Section of the organization is responsible for receiving, inventorying, tracking, maintaining, distributing, and recovering communications equipment. In addition, each department maintains a listing of all available county equipment and staff identified for response and recovery operations, such as debris removal and disposal missions. Each equipment is assigned an asset number. *Figures 22 and 23* illustrate examples of equipment inventories maintained by PCPW for emergency situations. County staff maintain accurate records of time, personnel, materials and equipment for all expenditures relating to hurricane- caused damages.

*Figure 22: Assigned Position and Phase Assignment Excerpt from Public Works Emergency Response Plan*



**PLANNING & DESIGN SECTION**

Section manager: Ivan Fernandez, P.E. *Updated 6-3-14*

Full Name	Employee Number	Phase - Assignment	Unit	Position Title
Ablakovic, Nedima	23984	2	Engineering and Technical Support Division	Admin Support Supv
Bay, Guillermo Q	29610	2-Evaluation	Utility Relocations & Rehabilitation	Pub Wks Eng Supv
Bellhorn, Paul A	27064	2-Evaluation	Civil & Structural Systems	Sr Eng
Bryant, Yvonne D	21254	2-Evaluation	Production Unit	Pub Wks Eng Spec 1
Carpenter, John A	30690	2-Evaluation	Civil & Structural Systems	Professional Eng.
Celeste, Merry	34268	2	Engineering and Technical Support Division	Cont Svcs. Supervisor 1
Clark, Timothy H	27742	1 - EOC	Civil & Structural Systems	Pub Wks Eng Spec 1
Cook, Becky	100884	1 - Plant	Water & Sewer Systems (closest plant – WE Dunn)	Sr. Engineer
Cruz, Milton	24948	2	Utility Relocations & Rehabilitation	Eng Tech
Cutrone, Gregory	100465	1-Task Team	Civil & Structural Systems	Sr. Eng
Dawson, Stuart J	31700	3	Water & Sewer Systems	Sr Envir Spec
ETS Division Director		1 - EOC	Engineering and Technical Support Division	
Farrugia, Lucille A	90684	1 - ERB	Engineering and Technical Support Division	Sr Office Spec
Fernandez, Ivan J	4514	1-FEOC	Design Services Section	Section Manager
French, John	100434	1 – PLANT	Water & Sewer Systems (closest plant – SCB)	Dept Admin Mgr
Gilkerson, Sarah	20748	1 - EOC	Utility Relocations & Rehabilitation	Eng Spec 1
Glaser, Daniel	100877	2-Evaluation	Civil & Structural Systems	Sr. Engineer
Grubbs, R W	2538	2-Evaluation	Utility Relocations & Rehabilitation	Pub Wks Eng Supv
Hall, Brent D	28012	1 - EOC	Production Support	Sr Dept Admin Mgr
Hanks, Constance M	31646	2	Engineering and Technical Support Division	Admin Secretary
Hornik, Antonio	27122	1-Task Team	Civil & Structural Systems	Division Eng

**Figure 23: Example Vehicle Inventory**

ASSIGNED		ASSIGNED VEHICLE/EQUIPMENT	STAGING AREA	ASSET NUMBER
MODEL	NAME			
CONSTRUCTION PW COST CENTER (LT xxxxxx EC)				
2014 Ford Exp 4 x 4	Bixler, Mike	22211 US 19, Bldg 16	Will Keep	119227
98 F 150 4 x 4	Demyan, Mark	22211 US 19, Bldg 16	Will Keep	87258
2014 Ford Exp 4 x 4	DeMoss, Joe	22211 US 19, Bldg 16	Will Keep	119229
2014 Ford Exp 4 x 4	Gildea, Richard	22211 US 19, Bldg 16	Will Keep	119238
2014 Ford Exp 4 x 4	Hunt, Joe	22211 US 19, Bldg 16	Will Keep	119244
09 Colorado UP 4 x 4	Johnson, Kevin	22211 US 19, Bldg 16	Will Keep	112857
2014 Ford Exp 4 x 4	Lafita, Angel	22211 US 19, Bldg 16	Will Keep	119242
2014 Ford Exp 4 x 4	Lanier, William	Keystone Rd Field Office	Will Keep	119240
2014 Ford Exp 4 x 4	Linton, John	22211 US 19, Bldg 16	Will Keep	119234
2014 Ford Exp 4 x 4	Mowry, Brian	22211 US 19, Bldg 16	Will Keep	119241
05 Silverado PU	Parrish, Joseph	22211 US 19, Bldg 16	Will Keep	431470



Figure 24: Example Emergency Kit Inventory

Inventory No.	Item Description	Purchase Price (each)	Quantity	Location
<b>Tote 1</b>				
<b>Bag for each Task Team 1 person per team</b>	Rope		1	2 <sup>nd</sup> Floor Closet
	Sunscreen		1	2 <sup>nd</sup> Floor Closet
	Protective Goggles		1	2 <sup>nd</sup> Floor Closet
	Flat blade screwdriver		1	2 <sup>nd</sup> Floor Closet
	Leather Gloves		1	2 <sup>nd</sup> Floor Closet
	Hand Sanitizer		1	2 <sup>nd</sup> Floor Closet
	Dust Mask		1	2 <sup>nd</sup> Floor Closet
	Rubber boots		1	2 <sup>nd</sup> Floor Closet
	4 ft. carpenter's level		1	2 <sup>nd</sup> Floor Closet
	Measuring tape – 25 ft		1	2 <sup>nd</sup> Floor Closet
	Range pole/probe		1	2 <sup>nd</sup> Floor Closet
	Tool belt w/ tool pouch		1	2 <sup>nd</sup> Floor Closet
	Plumb bob		1	2 <sup>nd</sup> Floor Closet
	Flashlight		1	2 <sup>nd</sup> Floor Closet
	Chipping Hammer w/ leather holder		1	2 <sup>nd</sup> Floor Closet
	Spray paint – Orange		1	2 <sup>nd</sup> Floor Closet
	Hip waders		1	2 <sup>nd</sup> Floor Closet
<b>Tote 2</b>				
	Rope		1	2 <sup>nd</sup> Floor Closet
	Sunscreen		1	2 <sup>nd</sup> Floor Closet
	Protective Goggles		1	2 <sup>nd</sup> Floor Closet
	Flat blade screwdriver		1	2 <sup>nd</sup> Floor Closet
	Leather Gloves		1	2 <sup>nd</sup> Floor Closet

### **3.5 Post Disaster Response And Recovery Phases**

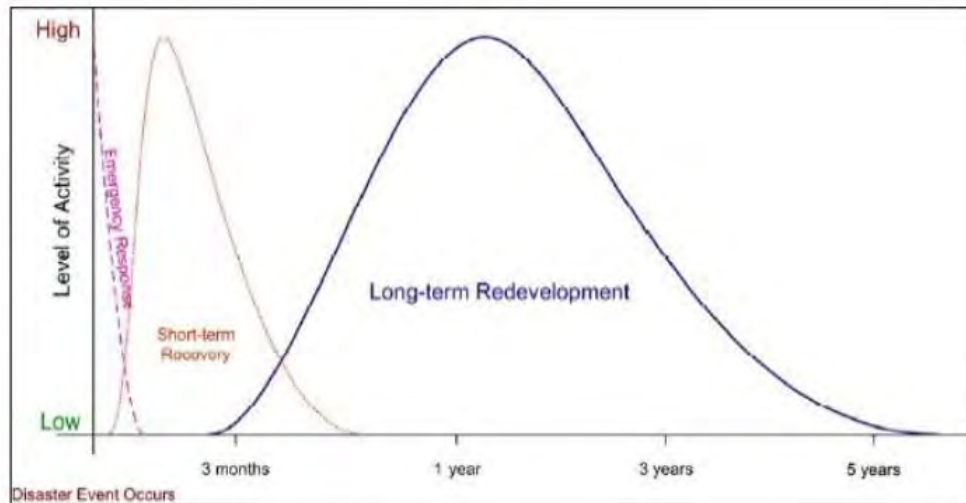
The *Pinellas County Post-Disaster Redevelopment Plan* (PDRP) identifies policies, operational strategies, and roles and responsibilities for implementation that will guide decisions that affect long-term recovery and redevelopment of the community after a disaster. The plan emphasizes seizing opportunities for hazard mitigation and community improvement consistent with the goals of local comprehensive plans. Recovery topics addressed in the plan include business resumption and economic redevelopment, housing repair and reconstruction, infrastructure restoration and mitigation, short-term recovery actions that affect long-term redevelopment, sustainable land use, environmental restoration, and financial considerations as well as other long-term recovery issues identified by the community.

The purpose of the plan is to provide Pinellas County and other local governments with a countywide reference for guiding action and decision-making during the difficult disaster recovery period, as well as detailing actions that can be taken before a disaster strikes to speed the recovery process and make the community more disaster resilient. It addresses disaster recovery and redevelopment issues with long-term implications. It does not address immediate response and emergency operations as those are already covered by the CEMP.

The PDRP is an action-oriented plan outlining, where applicable and appropriate, a countywide implementation approach. Several Steering Groups representing county, municipal, non-profit and private stakeholders developed Action Plans for different subject areas that can be implemented, as needed.

The PDRP assumes three overlapping periods of recovery; the Immediate Emergency Period, the Short Term Restoration Period, and the Long Term Reconstruction Period (*Figure 24*). The length of time of the various post-disaster phases will vary with each disaster. Response activities are contained within the Emergency Support Functions of the Comprehensive Emergency Management Plan and include immediate actions to save lives, protect property, meet basic human needs, and begin to restore water, sewer, and other essential services. During the Response period, a determination of whether the PDRP should be activated will be the only implementation activity. Short-term Recovery period encompasses such activities as damage assessments, public information, transition from shelters to temporary housing, utility restoration, and debris clearance. There are three major components to the Long-term Redevelopment period: reconstruction, holistic long-term recovery, and community enhancement.

*Figure 25 Potential Timeline for a Major Disaster Scenario*



Short-term recovery activities are those activities that have to take place following a disaster in order for citizens to return to their homes. They are typically initiated in the County EOC while in emergency response mode. Short-term recovery activities include such functions as: implementing a curfew; conducting impact assessments; re-establishing the critical infrastructure necessary for community reconstruction; re-establishing critical services that meet the physical and safety needs of the community (e.g., water, food, ice, medicine and medical care, emergency access, and continuity of government operations), and coordinating re-entry procedures.

During this phase, the PDRP Construction, Permitting and Mitigation Work Group will provide recommendations to the Steering Group on the permitting of temporary housing, emergency repairs, repair and restoration of buildings in unincorporated Pinellas County at the beginning of the short-term recovery phase. The Group will also address issues regarding disaster permitting, temporary moratoria, temporary emergency repairs, contractor licensing, contractor fraud, adequate construction materials and available contractors and skilled construction workers, code enforcement, blight and abandoned homes, mitigation during rebuild and repair, and funding assistance and insurance problems.

Pinellas County has also developed a Countywide Disaster Housing Plan ordinance that allows for temporary flexibility of land use regulations and zoning codes in the aftermath of a disaster resulting in a declared housing emergency.

Long-term recovery involves those activities that are taken to return the community to the conditions that existed before the disaster or emergency occurred, preferably while taking advantage of opportunities to mitigate against the impacts of future disasters. Long-term recovery activities can last for many years following a disaster. They include activities such as: redevelopment; environmental preservation and restoration; rebuilding; construction; repairs; and restoration. Economic recovery and business assistance are some of the most

important long-term recovery activities that must take place for a community to fully recover from a disaster.

During this phase there is tremendous pressure to build back quickly and restore or replace what was damaged or destroyed. The best practice for post-disaster redevelopment is to restrict rebuilding in hazardous locations and require mitigation where vulnerable redevelopment cannot be precluded.

Through the PDRP process, key issues such as how the community will address build back policies and non-conforming uses and structures were addressed. Disasters may provide some opportunity to propel the vision developed for the county in the Local Comprehensive Plan, Land Development Regulations (LDRs), and Economic Redevelopment Plans. This includes opportunities to implement mitigation measures to enhance protection of both community properties and private properties.

Following a disaster there is tremendous pressure to build back quickly as well as to balance the needs of survivors. As such, the County prepared an emergency ordinance for a temporary moratorium in heavily damaged areas to allow sufficient time for review of reconstruction permits yet expediting minor or moderate repairs. The PDRP strategies centered on permit requirements and mitigation measures during redevelopment are detailed in the Land Use, Housing and Mitigation Action Plan.

Pinellas County also takes actions that support property protection measures that could be carried out during response and recovery phases. These activities include educating the public about home property protection measures and mitigation activities to prevent or reduce damage from flood. Media blasts can be issued to the news venues, social media, and other outlets to inform people about protecting themselves and their property. Protection measures that can be taken to protect a property include:

- Inspect and clear gutters frequently
- Get a permit and hire a licensed contractor.
- Use flood-resistant materials and techniques.
- Raise switches, sockets, circuit breakers, and wiring.
- Mark the fuse or breaker box to show the circuits to areas vulnerable to flooding
- Elevate equipment such as hot water heaters and A/C units as much as possible.
- Elevate the entire structure above flood levels.
- If building new or elevating the existing structure, consider building stronger to withstand future storms.
- Inspect sanitary sewer lateral and install a sewer line check valve to prevent sewer backup flooding.
- Buy flood insurance and understand what is covered.

In the case of older structures that are significantly damaged, Pinellas County's ordinance requires these structures to be rebuilt to the current and more restrictive codes to prevent future losses. PCBDRS conducts substantial damage inspections after a major storm. During these inspections, staff distributes informational door hangers to the affected areas to advise residents what they can do and what resources are available to them.

After the storm, PCPW will visit areas that have flooded and record highwater marks. This information will be used by PCPW to evaluate potential best management practices to reduce the flooding. Protection measures that the County develops may include adding storage for flood attenuation, low impact development, new stormwater infrastructure, retrofits, and other measures. All these activities help to prevent property losses.

### **3.6 Demobilization**

As conditions in the community evolve an assessment by the local jurisdiction or Pinellas County EOC will be conducted to determine when and how disaster support can be demobilized. Following minor to moderate incidents, demobilization may be as simple as the local jurisdiction or EOC Director downgrading the activation level and releasing representatives. However, larger, or catastrophic disasters may include significant assets working outside the physical confines of the EOC, warranting a fully developed incident demobilization plan developed by the EOC Planning Section and approved by the EOC Director.

### **3.7 Close Out and After Action**

All documentation and records pertaining to the incident will be collected, retained per County protocols and in accordance with federally declared disasters, as applicable. A summation of events will be developed to record actions and After Action or Hot Wash meetings will be held to document any areas that need improvement and subsequent meeting to address any corrective measures may be held. All updates and changes identified during the After Action meetings will be incorporated into a After Action Report and will be shared with all applicable agencies including the PCPW Floodplain Administrator for incorporation into applicable plans.

## **APPENDICES**

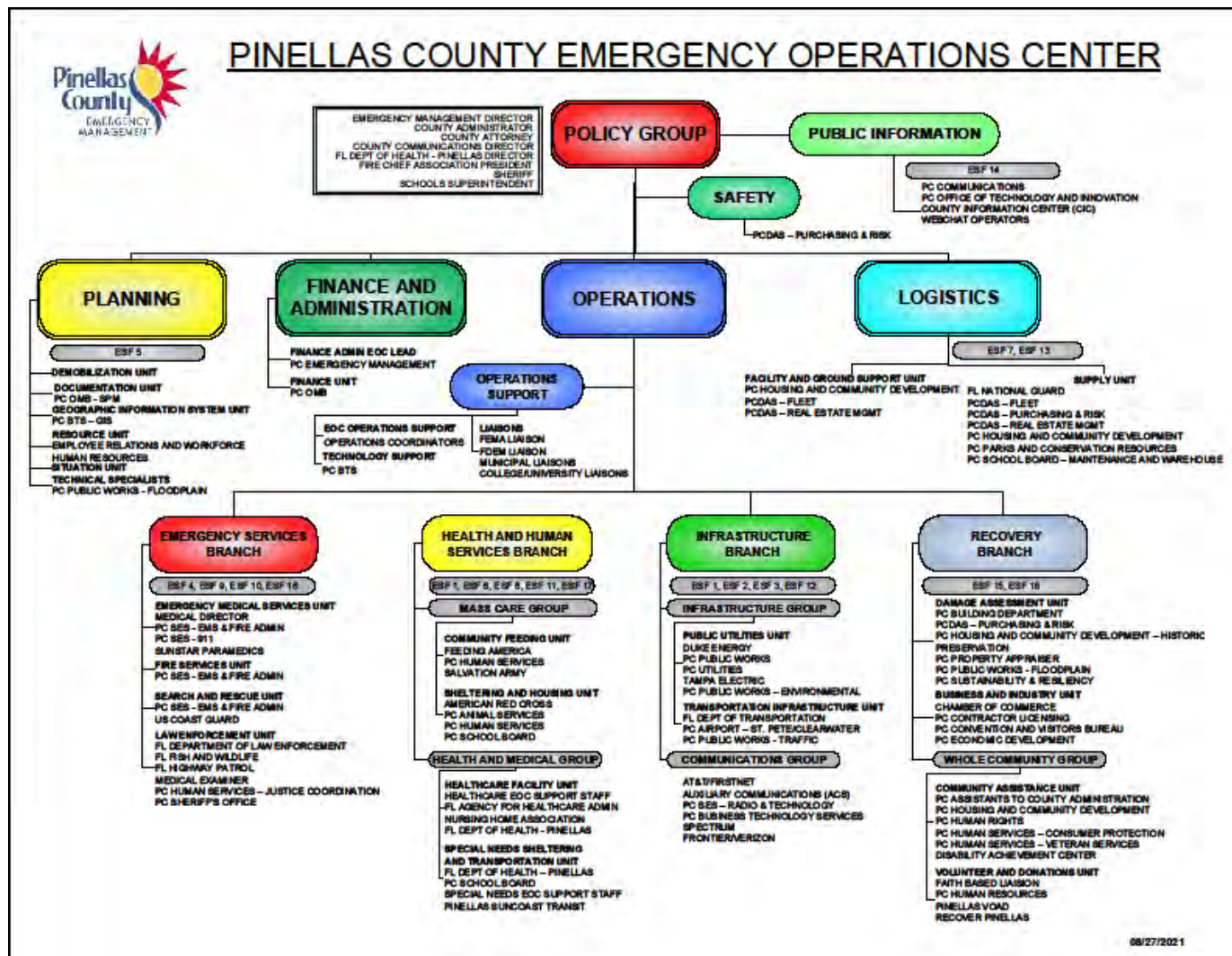
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## **Appendix 1: List of Acronyms**

<b>CEMP</b>	Comprehensive Emergency Management Plan
<b>CFP</b>	Critical Facilities Planning
<b>COOP</b>	Continuity of Operations
<b>EAS</b>	Emergency Alert System
<b>EMS</b>	Emergency Medical Services
<b>EOC</b>	Emergency Operations Center
<b>ESF</b>	Emergency Support Function
<b>EWD</b>	Emergency Warning Dissemination
<b>FDEM</b>	Florida Division of Emergency Management
<b>FEMA</b>	Federal Emergency Management Agency
<b>FRO</b>	Flood Response Operations
<b>FTR</b>	Flood Threat Recognition System
<b>GIS</b>	Geographic Information System
<b>LDR</b>	Land Development Regulations
<b>LMS</b>	Local Mitigation Strategy
<b>NFIP</b>	National Flood Insurance Program
<b>NHC</b>	National Hurricane Center
<b>NOAA</b>	National Oceanic and Atmospheric Administration
<b>NWS</b>	National Weather Service
<b>PCBDRS</b>	Pinellas County Building Development and Review Services
<b>PCC</b>	Pinellas County Communications
<b>PCEM</b>	Pinellas County Emergency Management
<b>PCPW</b>	Pinellas County Public Works
<b>SFHA</b>	Special Flood Hazard Areas
<b>SLOSH</b>	Sea, Lake and Overland Surges from Hurricanes
<b>SOG</b>	Standard Operating Guide
<b>USGS</b>	United States Geological Survey
<b>WAND</b>	Warning and Notification Database



## Appendix 2: EOC Organization Structure



## **Appendix 3: Hazard Analysis**

Chapter 4-1 of the Pinellas County LMS describes the hazards that affect Pinellas County, including flood, wind, erosion, wildfire, and other natural and manmade hazards. The LMS contains an in-depth discussion of the natural hazards, including inland flooding, coastal flooding, hurricanes, and tropical storms. This plan focuses on the flood hazards that affect Pinellas County, including the developments exposed to flooding and the expected impacts to the health and safety of residents in the community. In addition to the information presented here, Pinellas County is affected by flooding nearly every year. These floods have caused extensive damage and loss of life in the past.

### **Causes Of Flooding**

Flooding for Pinellas County is often attributed to coastal flooding, hurricanes and tropical storms, and inland flooding from heavy rainfall.

#### Coastal Flooding

Pinellas County is a peninsula, which makes it extremely vulnerable to coastal flooding, particularly on the barrier islands and in other low-lying areas along the coastline identified on the NFIP Flood Insurance Rate Maps and local governments' repetitive loss areas. The County has experienced several damaging coastal floods caused by wind-driven water associated with low-pressure systems or frontal boundaries. This flooding can be exacerbated at times of high-tide. The damaging effects to structures in the coastal areas are caused by a combination of high levels of storm surge, winds, waves, heavy rain, and erosion. Losses can occur over short periods or may have long-term effects.

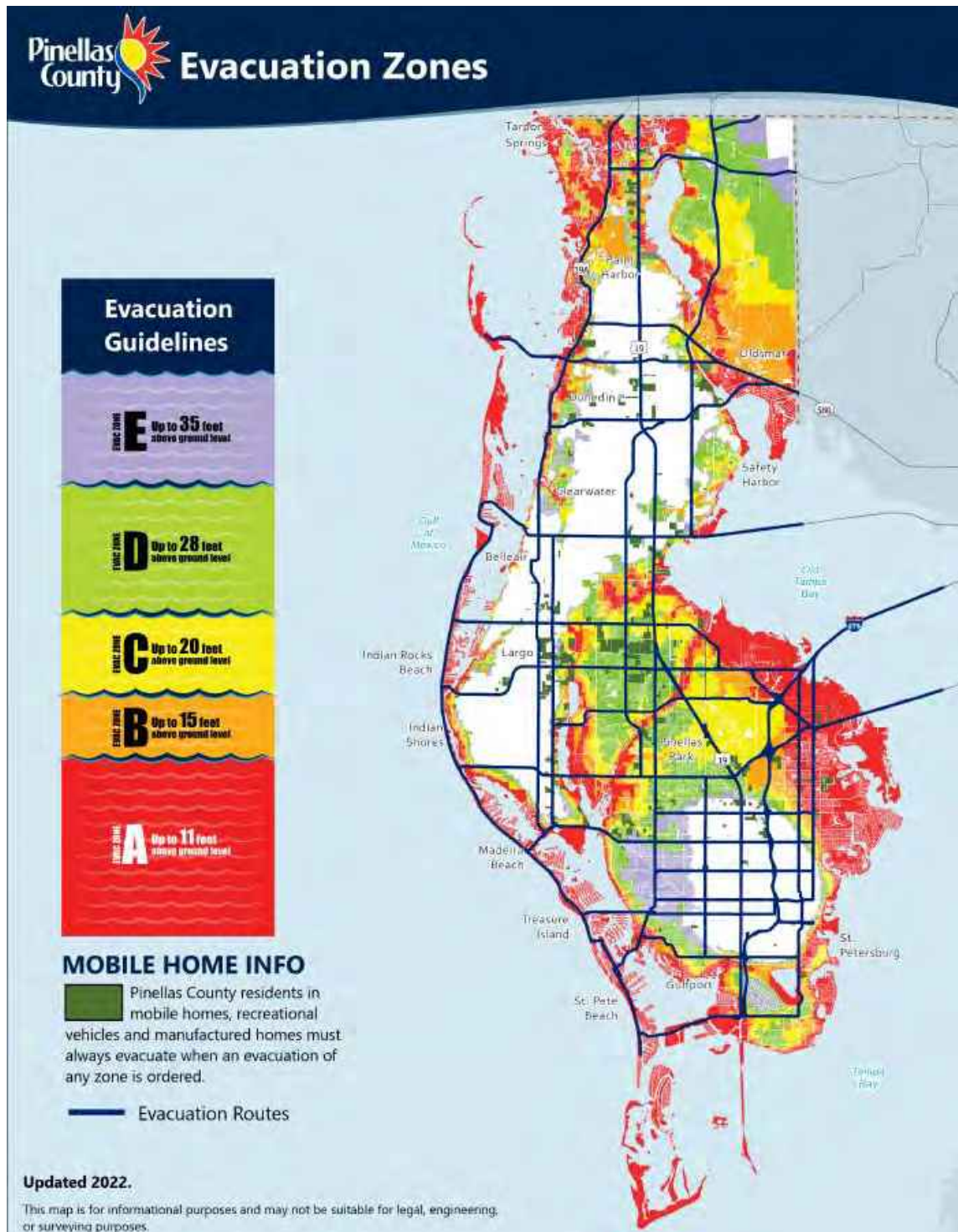
#### Hurricanes And Tropical Storms

Hurricanes are the natural disasters that pose the greatest threat to Florida and Pinellas County because of their relatively high frequency and potential to cause widespread casualties and property/infrastructure damage. Hazards often associated with hurricanes and tropical storms include storm surge, high winds, and heavy rainfall. Of the hurricane hazards, storm surge typically poses the greatest threat to lives and property located within surge-prone areas. The more intense the hurricane, and the closer to perpendicular its track is, in relation to the coastline, the higher the storm surge and resulting destruction will be. High winds may render large portions of the county vulnerable to the passing hurricane.

Throughout Unincorporated Pinellas County, the more than 43,000 mobile and manufactured homes will be unable to withstand hurricane-force winds.

Since the structure of every hurricane is unique, there is no way to determine the rate and distribution of the expected six to twelve inches of rainfall generally accompanying the storm. Storms that move slowly or stall may drop large amounts of rain, regardless of the category of storm. Localized evacuations for homes inundated by flood waters may be necessary after an event, as opposed to storm surge flooding which may necessitate evacuation prior to landfall. *Figure 25* illustrates the 2022 Evacuation Zones.

Figure 26: 2022 Storm Surge Zones (from Pinellas County Emergency Management)





Historically Pinellas County can expect a hurricane to affect us at least once every 4.5 years. The occurrence of a hurricane impacting the Tampa Bay area on an annual basis is high. The worst-case scenario for Pinellas County is a Category 5 Hurricane heading northeast at less than 15 miles per hour that makes landfall at high tide along the barrier island communities of mid-Pinellas County. A storm surge of over 30 feet at some coastal locations would inundate large areas of the county, while sustained winds of over 155 miles per hour with even higher gusts would destroy thousands of homes and cause damage to thousands more.

The principal tool for analyzing the expected hazards from potential hurricanes that may affect the Tampa Bay Region is the Sea, Lake, and Overland Surges from Hurricanes (SLOSH) numerical storm surge model. The SLOSH model predicts the tidal surge heights that result from test data about hypothetical hurricanes with various combinations of pressure, size, forward speed, track, and winds. Pinellas county has integrated all of the SLOSH data from the NHC into PELICAN, including directional analyses by forward speed. Pre-planning for the areas and numbers of people and critical facilities is done to assist with educating stakeholders on risk and real-time decision-making.

### Inland Flooding

Thunderstorms and heavy rainfall affect Pinellas County on a frequent basis, especially in the rainy summer months (June through September). These storms often produce intense rainfall with flood impacts in many sections of Pinellas County. This problem becomes more severe if the heavy rainfall occurs at the same time as the astronomical high tide, which prevents much of the rainwater from flowing through the drainage system into the Gulf of Mexico or Tampa Bay.

The FEMA FIRM maps can be a good indication of where potential flooding issues are within Pinellas County. They represent detailed studies conducted by FEMA and others that describe the flooding potential for major riverine systems as well as coastal flooding. The flood data describe areas of high risk, including the 100-year and 500-year flood zones. They also describe the V Zones, which represent the most hazardous areas and generally include the beach properties. These are high hazard areas due to the wave velocities. *Figure 26* illustrates areas identified by FEMA Special Flood Hazard Areas (SFHA). These are areas that are at the highest risk of flooding and were delineated using results from either riverine hydrologic & hydraulic models or coastal storm surge model. The model results are then compared to the local topography and the area predicted to be inundated make up the SFHA.

Figure 27: FEMA Special Flood Hazard Zones



In addition, Pinellas County conducted watershed management plans that identify these areas at risk in more detail, often using more updated data and incorporating the County's local knowledge of flooding issues. These plans describe the developments that are exposed to flooding, and include:

1. Allen's Creek
2. Anclote River
3. Bishop Creek and Mullet Creek
4. Brooker Creek
5. Clearwater Harbor / St Joseph Sound
6. Cross Bayou
7. Curlew Creek and Smith Bayou
8. Joe's Creek
9. Klosterman Bayou
10. Lake Seminole
11. Lake Tarpon
12. Long Branch
13. McKay Creek
14. Roosevelt Creek
15. Starkey Basin

The results of these plans help to identify those areas that are vulnerable to flooding from both small storms as well as less frequent, larger storms. *Figure 27* illustrates the areas identified to have a high potential for flooding based on the County's watershed management plans. The models not only indicate the extent of flooding, but can provide valuable information that includes:

- Flood elevation
- Depth of flooding
- Duration of flooding
- Areas of high flow or velocity

*Figure 28* illustrates an example of the flood information for a segment of McKay Creek.



Figure 28: Pinellas County 100YR/24HR Flood Hazard Areas





Figure 29: Flood Elevation, Depth, Velocities and Duration (McKay Creek)



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## **Historical Flooding**

Based on historical information, Pinellas County remains highly vulnerable to inland flooding from heavy rains, high tide on the barrier islands and in other low-lying areas along the coastline identified on the NFIP Flood Insurance Rate Maps and local governments' repetitive loss areas. Examples of past flooding events include:

- June 1974: During the period of June 22 through June 30, 1974, Pinellas County received between 20 and 30 inches of rain. Damage to public and private property totaled more than \$20 million.
- May 1979: Flooding occurred when 10-18 inches of rain fell in Pinellas County on May 8, 1979. The massive rain event led to three deaths in St. Petersburg. One woman drowned when her truck was swept down a flooded street. Another woman and her 12-year-old daughter were sucked into a drainage ditch. About 200 people were evacuated from their homes in Tyrone and St. Petersburg. 17.6 inches of rain fell in St. Petersburg during a 14-hour period. Shore Acres received 12.4 inches, while Seminole received 10.78 inches, and Tyrone received 8.7 inches. Several roads and bridges were washed out. (*The Evening Independent*, 8/9/1979 and the NWS)
- September 1979: During the months of August and September 1979, Central Florida, including Pinellas County, experienced the most significant period of rainfall in over three decades. In some areas, the two-month rainfall total was more than 40 inches.
- September 1988: After a week of light to moderate rains, flooding began to occur county-wide. Areas of Pinellas Park, Clearwater and Dunedin were hardest hit. 13.25 inches of rain were recorded.
- September 1997: Thirty-hour rainfall totals of 8 to 14 inches caused flooding of roads, highways, homes, commercial buildings, low-lying areas and rivers over much of Pinellas and Hillsborough Counties. In St. Petersburg, a 13-year-old female was swept into a storm drain while playing in floodwaters at a city park on 36th Avenue N. and Eighth Street at 7 pm EST. She was dragged into raging waters underground for 2 blocks before she emerged and was rescued by firefighters. In St. Petersburg, floodwaters carried a 23-year-old woman twelve blocks underground in a drain before she was dumped into a retention pond with only minor injuries. Another woman was playing at Booker Creek under a wooden bridge with two children when she lost her footing and was carried off by the fast-moving flood waters. The heaviest rainfall and subsequent flooding occurred over the cities of Gulfport, Pinellas Park and St. Petersburg in southern Pinellas County. (National Climatic Data Center Storm Events and the NWS).
- February 2006: The combination of tropical moisture flowing into a line of thunderstorms and an approaching upper-level disturbance allowed a train of intense thunderstorms to repeatedly cross over parts of the Tampa Bay area on February 3, 2006. Between 8 and 11 inches of rain fell in roughly a five-hour period

in a five-mile-wide stripe extending from Madeira Beach northeast through Pinellas Park, then across Old Tampa Bay to west Tampa, including Tampa International Airport. The area of heaviest rain was so concentrated that downtown St. Petersburg, less than 10 miles away recorded less than an inch of rain during the same period. The torrential rains caused flash flooding in the areas where more than eight inches fell. The flash flooding prompted the mayor of St. Petersburg to term the event a "hundred-year flood." In Lealman, an entire mobile home community was evacuated, and at least 69 of the homes were flooded. A partial roof collapse was reported at a big box store in St. Petersburg. Water pouring into the store washed out several cash register stands and injured one employee as he was washed into the parking lot. Another roof collapsed at Treasure Island. Hundreds of vehicles were stranded by the flood waters. Total property damage was estimated at \$2.0 million. Rainfall amounts measured in Pinellas County include Pinellas Park (Upper Highlands Canal): 11.17 inches, Saint Petersburg/Clearwater International Airport: 8.20 inches, Seminole: 7.01 inches, Largo: 6.44 inches, and Clearwater: 5.81 inches.

- June 2012: Tropical Storm Debby: Tropical Storm Debby caused extensive flooding in North Florida and Central Florida during late June 2012. The fourth tropical cyclone and named storm of the 2012 Atlantic hurricane season, Debby developed from a trough of low pressure in the central Gulf of Mexico on June 23. In St. Petersburg, a wind gust of 45 mph was observed. The NWS reporting stations around Pinellas recorded 14.28 inches in Tarpon Springs, 13.66 in Largo, 12.60 in Oldsmar, 12.28 in Pinellas Park, 12.27 in Dunedin and 10.61 in St. Petersburg. There was substantial beach erosion. Portions of Upham Beach in Pinellas County were completely eroded up to the seawall and other areas in that county had lost 20 to 30 ft of sand. On Treasure Island, coastal dunes were eroded by 10 to 15 ft. In Pass-a-Grille, Debby's storm surge flooded coastal hotels with ankle-deep water as the dunes were washed away. Throughout St. Pete Beach, 30–40 homes were damaged by a tornado spawned by Debby. Losses throughout the county were estimated at over \$1.5 million.
- June 2013: TS Andrea: Tropical Storm Andrea brought flooding to Cuba, the Yucatan Peninsula, and portions of the East Coast of the United States in June 2013. The first tropical cyclone and named storm of the annual hurricane season, Andrea originated from an area of low pressure in the eastern Gulf of Mexico on June 5. Despite strong wind shear and an abundance of dry air, the storm strengthened while initially heading north-northeastward. Later on June 5, it re-curved northeastward and approached the Big Bend region of Florida. Forecasters issued a tornado warning for Pinellas County as the storm moved north past the County. Minor to moderate flooding was forecast through the event with potential coastal storm surges of 2 to 5 feet. Forecasters also sent out a flood advisory for Pinellas, warning of urban and small stream flooding. Over 4.82 inches of rain had fell in Largo, Gulfport saw 3.71 inches of rain and a tornado touchdown that caused damages to a commercial district.



- July 2015: Areal Flood event: A late July early August stubborn low-pressure system stalled over central Florida bringing torrential rain to the Tampa Bay area. The NWS issued flood warnings for parts of Pasco, Pinellas and Hillsborough. Tampa shattered a 42-year- old record for the amount of rainfall for Aug. 1. when it received 3.1 inches of rain in one day. Over 14.46 inches of rain fell from July 28 – August 4 in the City of Clearwater.
- June 2016: TS Colin: Tropical Storm Colin was an atypical, poorly organized tropical cyclone, Colin developed from a low-pressure area over the Gulf of Mexico near the northern coast of the Yucatán Peninsula late on June 5, 2016. Moving northward, the depression strengthened into a tropical storm about eight hours after formation. The storm produced heavy rainfall over portions of Florida, resulting in flooding in some areas, especially Hillsborough and Pinellas counties. There, the freshwater flooding was compounded by coastal flooding from high tides. Winds caused over 93,300 power outages throughout the state. The storm spawned two tornadoes, one of which knocked down trees and damaged several cars and homes in Jacksonville. In Pinellas County, rainfall amounts peaked at 17.54 in the City of Seminole. Tropical storm force wind gusts were observed at several locations, though few locations reported sustained tropical storm force winds. A mobile home park in Clearwater was flooded, while water entered some homes in St. Pete Beach. Floodwaters overwhelmed the sewage system, forcing the city to pump partially treated sewage into Tampa Bay. Heavy rainfall in St. Petersburg resulted in water entering the hallway at St. Petersburg High School while school was in session. Overall, damage in the Tampa Bay area totaled over \$10,000.
- January 2017: A line of strong and fast-moving thunderstorms developed ahead of a cold front moving southeast through the Florida Peninsula. Breezy gradient winds were compounded by stronger thunderstorm wind gusts, some of which caused minor damage. Additionally, the persistent gradient winds caused minor coastal flooding. Water was observed to have risen 2.1 feet above the predicted high tide at Clearwater Beach. The city of Indian Rocks Beach also reported that beach erosion caused the loss of sand and damage to public signs and trash cans, totaling around \$20,000 in damage.

### **Flooding Hotspots**

Pinellas County geocoded the historical claims data. This data was overlaid with other data, such as topographic information, FEMA flood zones, historical flooding complaints, and other information to identify areas within the County that are at risk for flooding. In addition, Pinellas County Public Works staff maintain an inventory of problem areas, or 'hot spots,' in the conveyance system. The County uses an enterprise maintenance management system to track the inspections and maintenance of the hot spots. In addition to the normally scheduled inspections, these locations are inspected before, during, and after major storm events. Field records are maintained in the management system, which allows staff to generate reports to monitor the problem area assets, observe trends, and identify new hot spots. Staff also identify flooding hot spots after a major storm and note the issues and lessons learned that

affect the various departments at the County. Projects to alleviate problems in these areas are incorporated into the County's Capital Improvement Program (CIP) based on prioritization and available funding. *Figure 29* illustrates an example for locations of hot spots.

*Figure 30: Hot Spots*



### Repetitive Loss Areas Analysis

Pinellas County performed a repetitive loss areas analysis using the most recent repetitive loss properties data from FEMA, with the goal of reducing the number of repetitive loss properties (RLPs) within the County. A Repetitive Loss Structure is an NFIP-insured structure that has had at least two paid flood losses of more than \$1,000 each in any 10-year period since 1978. In addition, a Severe Repetitive Loss (SRL) Structure is defined as a residential property that is covered under an NFIP flood insurance policy and (a) has at least four NFIP claim payments (including building and contents) over \$5,000 each, and the cumulative amount of such claims payments exceeds \$20,000; or (b) at least two separate claims payments (building payments only) have been made with the cumulative amount of the building portion of such claims exceeding the market value of the building. For both (a) and (b) above, at least two of the referenced claims must have occurred within any 10-year period and must be more than 10 days apart.

Pinellas County mapped the RLPs and evaluated nearby properties with the same potential for flooding. The repetitive loss areas include the properties on the repetitive loss list and all nearby properties that may experience similar flooding conditions. The repetitive loss areas were delineated based on compilation of the following data:

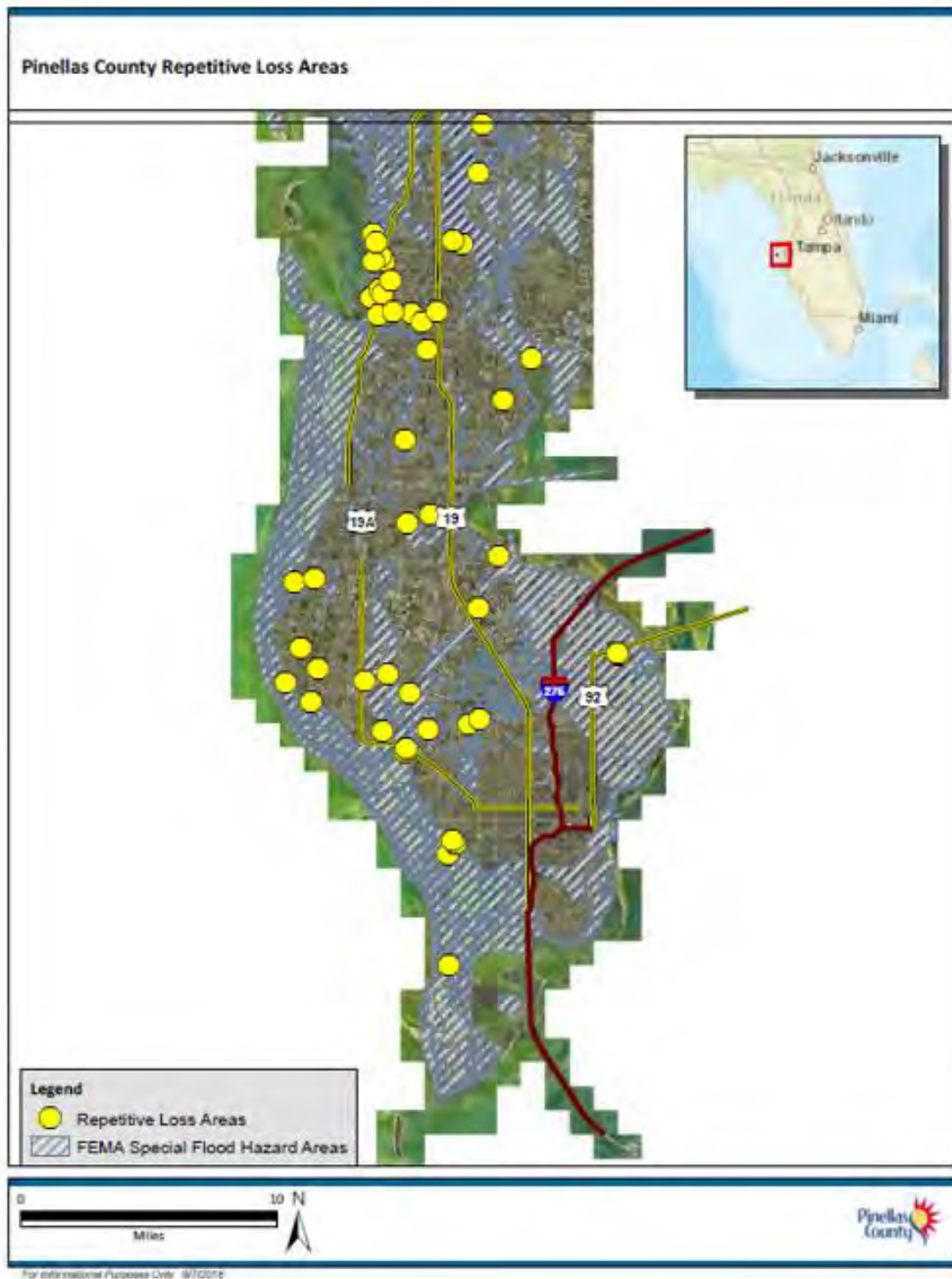
- Repetitive loss properties and data (e.g., number of losses and associated cost).
- LiDAR (elevation data, land slope).

- Conveyance system components (e.g., location and size of stormwater pipes, ditches, storage basins, work requests).
- Floodplains (e.g., WMP studies and FIRMs).
- Storm surge areas.
- Streetview.
- Historical flooding complaints.

*Figure 30* illustrates the repetitive loss areas identified by the analysis. Flooding occurrences in these areas were due to significant storm events combined with structures located in or around water bodies. The terrain characteristics with respect to these structures can be described as low-lying areas with a high depth to the water table.



Figure 31: Pinellas County Repetitive Loss Areas



## **Development Exposed To Flooding**

Pinellas County is vulnerable when a heavy rain event occurs. Hazard conditions become more significant if these events are accompanied by high tide and/or storm surge. These conditions can impact areas on the barrier islands and in other low-lying areas along the coastline identified on the NFIP Flood Insurance Rate Maps and repetitive loss areas. Inland flooding can also occur in depressional areas or areas having inadequate drainage systems. Prolonged periods of rainfall in these areas have the potential for causing damage to properties and could lead to evacuation of residents due to flooding.

### **Types Of Land Exposed To Flooding**

Although much of the floodplains are located in and adjacent to waterbodies, most of the areas in Pinellas County are built-out. In addition to natural floodplain areas such as streams and wetlands, many other types of land are also exposed to flooding. F describes the different types of land in Pinellas County that can be potentially affected by flooding and the impact flooding could have on the economy of the County.

### **Types Of Buildings Exposed To Flooding**

There are well over 30,000 buildings currently within FEMA's SFHA. However, based on additional analyses by the County and taking into account other types of flooding hazards such as storm surge, the number of affected buildings can be significantly more. *Figure 32* summarizes the unincorporated Pinellas County development that is exposed to different types of flooding. These statistics were derived based on analyses using GIS data. The number of affected buildings were determined by overlaying GIS features for building footprints with the specific hazard features.

Figure 32: Development Exposed to Flooding

PINELLAS COUNTY AND INCORPORATED AREAS	
<b><u>FEMA Flood Insurance Rate Map (FIRM)</u></b>	
Total buildings in SFHA:	85,160
Zone VE:	1,583
Coastal A Zone:	8,982
Zone AE:	80,404
Zone AH:	3
Zone AO:	52
Zone A:	3,118
Zone X (Shaded):	31,058
Zone X:	232,103
<b><u>Pinellas County Floodplains (100-Year)</u></b>	
Non-Tidal (Outside of SFHA):	13,875
Coastal (Outside of SFHA):	18,391
Total Buildings in Pinellas County Floodplains (Outside of SFHA):	31,253
<b><u>Storm Surge</u></b>	
Category 1:	78,849
Category 2:	31,364
Category 3:	42,824
Category 4:	43,405
Category 5:	19,296
<b>Total building count:</b>	
348,321	
<b>Buildings in Regulatory Floodplain Area (If WMPs and VA are adopted):</b>	
116,413	

## **Critical Facilities**

There are numerous Critical Facilities in Pinellas County that may be affected by flooding due to various types of natural hazards, including coastal flooding, storm surge, and significant rain events. *Figure 32* summarizes the vulnerability of certain types of critical facilities to flooding. The impacts of flooding on the health and safety of individuals within health care facilities can be significant given the large elderly population in Pinellas County. Flood waters can contribute to a variety of health hazards for the people within these critical facilities, including drowning, contamination/diseases, mold, and other hazards. PCEM through the healthcare CEMP review process maintains a database of contacts to provide year-round planning information, and real time notification of impending or occurring events to notify these facilities to maintain the safety of its residents and continuity of its operations. The vulnerability of critical facilities to other natural hazards can also be found in the Pinellas County LMS. Section 5 describes the critical facilities plan in more detail.

Pinellas County in coordination with the State Division of Emergency Management maintains a detailed inventory of critical facilities. These facilities are considered essential for Continuity of Government and Continuity of Operations. They represent public and private resources necessary to ensure public safety, emergency response and continuation of mission essential functions. The list of critical facilities is exempt from public record under Florida Statute 119.07(1) for security purposes. The list will be provided to federal, state, regional and local agencies with emergency management responsibilities, but will not be provided in documents intended for public review.

Figure 33: Critical Facilities in Flood Risk Areas

Location	Number of Critical Facilities in Flood Risk Area					
	Effective FIRM			Preliminary FIRM		
	100-year	500-year	VE-Zone	100-year	500-year	VE-Zone
Belleair	0	0	0	0	0	0
Belleair Beach	3	0	0	2	1	0
Belleair Bluffs	0	0	0	0	0	0
Belleair Shore	0	0	0	0	0	0
Clearwater	24	3	6	26	5	0
Dunedin	6	9	2	3	14	0
Gulfport	2	0	0	1	0	1
Indian Rocks Beach	3	0	0	3	0	0
Indian Shores	7	0	1	8	0	0
Kenneth City	3	0	0	0	1	0
Largo	13	7	0	11	10	0
Madeira Beach	5	0	0	5	0	0
North Redington Beach	2	0	0	2	0	0
Oldsmar	5	22	0	15	13	0
Pinellas Park	20	32	0	7	21	0
Redington Beach	3	0	1	4	0	0
Redington Shores	3	0	1	4	0	0
Safety Harbor	1	2	0	1	1	0
St. Petersburg	87	23	0	78	26	1
St. Pete Beach	7	0	2	9	0	0
Seminole	10	4	0	4	9	0
South Pasadena	14	0	4	16	0	2
Tarpon Springs	7	11	0	2	13	0
Treasure Island	13	0	1	13	1	0
Unincorporated	60	31	5	35	36	8
<b>PINELLAS COUNTY TOTAL</b>	<b>298</b>	<b>144</b>	<b>23</b>	<b>249</b>	<b>151</b>	<b>12</b>

**\*Source: Pinellas County Local Mitigation Strategy, 2020**

## Impacts To Life, Health, Safety And Community

This section describes the impact to life, safety, health, critical facilities and infrastructure, economy and buildings within Pinellas County from these flood hazards. Additional descriptions of the vulnerabilities and impacts from these hazards to life, health, safety and community functions can also be found in Pinellas County's LMS and Post-Disaster Redevelopment Plan).

### Life Safety

In Florida, common hazards to life safety include coastal and inland flooding, tropical storms, hurricanes, and lightning. Deep, fast flowing, or rapidly rising floodwaters can cause physical injury and loss of life. A mere 6 inches of moving water can sweep a



person away. The risk for drowning and physical injury increases when floodwaters carry debris. Floodwaters can also hide other hazards for wading pedestrians, such as manhole openings where the covers have been lifted by flood flow. Vehicles, too, can be moved by 6 inches of flowing water. Roads can be washed away. Downed power lines or other energized systems in the water can cause electrocution.

The maximum threat to Pinellas County is a hurricane- generated storm surge from a landfalling storm striking the coastline during an astronomical high tide. This would place up to 232,310 persons at risk, as well as 126,932 dwelling units from a category 1 storm (up to 11' AGL). Surges can be especially dangerous because water levels can rise quickly and flood large areas. If people have not evacuated from the risk area this leaves no time to take action and poses a significant threat of drowning. During the peak of a storm surge, it is unlikely that emergency responders will be able to respond to a call for help. Therefore, it is very important for residents and visitors to heed early warnings from officials.

Pinellas County uses the Alert Pinellas Notification System to notify residents, businesses and property owners in cases of emergencies such as tropical storms, hurricanes and other major flooding issues.

**Error! Reference source not found.** describes the potential impacts to life safety of these and other identified hazards for Pinellas County.

*Table 1: Potential Impacts on Life Safety in Pinellas County*

Hazard	Probability of Occurrence	Potential Impact
Coastal Flooding	High	Major coastal flooding as result of storm surge and/or high tide in the County can pose a threat to human life.
Inland Flooding	High	Floodwaters have the potential to cause drowning. The risk for drowning and physical injury is increased if floodwater is carrying debris. Floodwaters can also hide other hazards for wading pedestrians, such as manhole openings where the covers have been lifted by flood flow.
Tropical Storm / Hurricane	High	Storm surge or flooding from tropical storms and hurricanes can be extremely dangerous, since water levels can rise quickly and flood large areas, potentially causing drowning. Additional dangers include flying debris, falling trees, and electrocution from downed power lines.
Dam Failure	Low	Potential impact of a dam failure is low.



Coastal Erosion	High	Coastal erosion accompanying tropical storms or hurricanes has a higher potential to cause injury or drowning.
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In the event of a community emergency, Pinellas County has more than 30 emergency shelters for residents and visitors available as a last resort, including three pet-friendly shelters. Pinellas County provides a shelter program for those residents requiring special medically related care. Special needs shelters will be available for persons requiring more skilled medical care than available in a public shelter but not requiring an acute care facility such as a hospital. A listing of the shelters could potentially open is available on the Pinellas County website. Once a determination to open shelters has been made, the actual shelters that open will be communicated via media and updated on all of our GIS products, including Know Your Zone so residents can see the closest available shelter to them.

### **Public Health**

Of all hazards, flooding presents the most prevalent risk to public health. Floodwater may be contaminated by various pollutants such as sewage, human and animal feces, pesticides and insecticides, fertilizers, oil, asbestos, rusting building material, and others. Prolonged flooding also provides breeding grounds for mosquitoes. Flooded homes are exposed to mold and mildew and can cause flood victims to contract upper respiratory diseases and trigger cold-like symptoms.

Power outages caused by hurricanes can present health concerns from food spoilage and high heat and humidity can cause heat exhaustion or heat stroke. Floodwaters present an additional health hazard when they inundate drinking water facilities, chemical and waste storage facilities, wastewater treatment facilities, and solid waste disposal sites.

A major storm can leave victims isolated without water and medicines. For individuals who are injured in the storm or whose care for chronic conditions lapses restoring medical care services is a public health priority.

### **Community Infrastructure**

Significant impacts on the region's bridges - especially the approaches - are expected on all causeways including the Courtney Campbell Causeway, Howard Frankland Bridge, Gandy Bridge and the Skyway Bridge during extreme weather events, including hurricanes and tropical storms. Damage to the transportation infrastructure, and the fact that a storm can impact areas across the entire state, can slow the influx of recovery personnel and supplies into the area. Interstate 75 (I-75), Interstate 275 (I-275), and Interstate 4 (I-4) are expected to be the primary routes used to transport goods and people into and out of the affected zone during a response and recovery effort within the nine-county West Central Florida area and are the Florida Department of Transportation's top priority for debris clearance.

The loss of business facilities, utilities, and transportation are major impacts of flooding. The closure of roads and public transportation services can prevent employees from getting to work and employers from providing goods and services. The closure of businesses can affect the economy due to loss of revenue, fixed costs, replacement costs, and other expenses. In addition, there are several critical facilities located in storm surge vulnerable areas (in addition to the countywide vulnerability to hurricane-force winds). A discussion of storm surge-vulnerable facilities can be found in Section 5 of this plan.

A significant storm destroying a large segment of the power grid is the maximum threat likely to affect both Pinellas County's power source and distribution systems. If the outage lasts more than a few days, it may affect critical infrastructure including water/wastewater systems, health care facilities, communications, and transportation. However, there is a low probability that a total power failure will occur in Pinellas County; although, if it were to happen, the impact would be extremely high. Since the County is so densely populated, and there is a high number of elderly people who are electrically dependent, an extended period without power would have a significant impact. In addition, telecommunications are dependent upon power so an extended outage would have a substantial economic impact.

## APPENDIX 4: SUBSTANTIAL DAMAGE MANAGEMENT PLAN

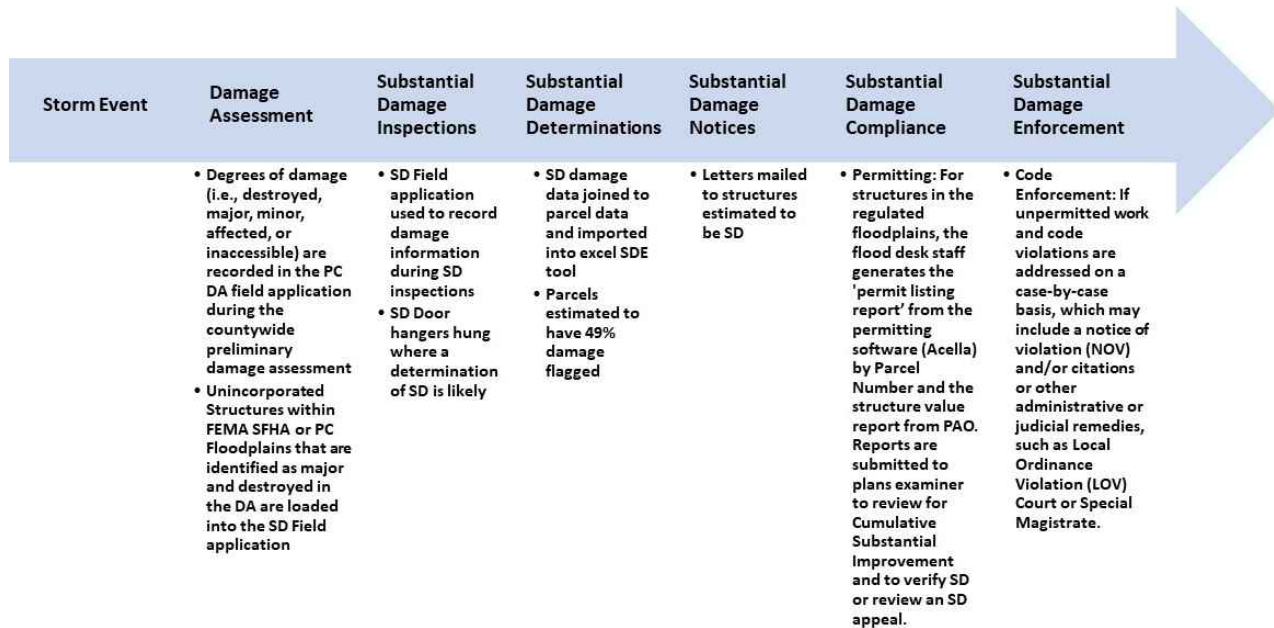
<b>1 INTRODUCTION.....</b>	<b>2</b>
1.1 SUBSTANTIAL DAMAGE DEFINITIONS.....	3
<b>2 SUBSTANTIAL DAMAGE VULNERABILITY .....</b>	<b>4</b>
2.1 AREAS OF CONCERNS FOR SUBSTANTIAL DAMAGE.....	5
2.2 CONSIDERATION OF MITIGATION ALTERNATIVES.....	7
<b>3 SUBSTANTIAL DAMAGE MANAGEMENT TEAM.....</b>	<b>7</b>
3.1 STAFF AND RESOURCE NEEDS.....	9
<b>4 PROPERTY DATABASE.....</b>	<b>13</b>
4.1 SOURCES OF INFORMATION .....	13
4.2 COMPLIANCE WITH THE FEDERAL PRIVACY ACT .....	13
<b>5 IMPLEMENTATION AND UPDATES.....</b>	<b>14</b>
<b>APPENDICES.....</b>	<b>15</b>
APPENDIX A: SUBSTANTIAL DAMAGE AREA.....	16
<i>Substantial Damage Areas.....</i>	16
<i>Substantial Damage Property List.....</i>	23
APPENDIX B: SUBSTANTIAL DAMAGE INSPECTION REFERENCE MATERIALS.....	24
<i>Substantial Damage Door Hanger.....</i>	25
<i>Substantial Damage Collector Worksheets.....</i>	26
<i>Residential vs. Non-Residential Assessments (Table 3-3, Substantial Damage Estimator User Manual, FEMA).....</i>	29
<i>Residential Structure Elements (Table 3-6, Substantial Damage Estimator User Manual, FEMA).....</i>	30
<i>Features to Evaluate during Interior Inspections of Structures (Table 9-2, Substantial Damage Estimator User Manual, FEMA).....</i>	32
<i>Guidance for Estimating Percent Damage for Residential Structures (Appendix E, Substantial Damage Estimator User Manual, FEMA).....</i>	34
<i>Guidance for Estimating Percent Damage for Non-Residential Structures (Appendix F, Substantial Damage Estimator User Manual, FEMA).....</i>	45
APPENDIX C: SUBSTANTIAL DAMAGE DETERMINATION REFERENCE MATERIALS .....	51
<i>Property Owner Notification Letters.....</i>	52
<i>ACV Checklist by FloodPoint USA, LLC (2022).....</i>	56
<i>ACV Appraisal Report Minimal Outline by FloodPoint USA, LLC (2022).....</i>	57
<i>ACV Guidebook by FloodPoint USA, LLC (2022) .....</i>	58

## **1 INTRODUCTION**

Pinellas County has undertaken a planning process to provide a framework for assessing substantially damaged buildings after a disaster and to provide proactive measures to protect buildings from future flood damage before the next disaster. This Substantial Damage Management Plan provides procedures for enforcement of substantial damage, which is a primary requirement of the Federal Emergency Management Agency (FEMA) National Flood Insurance Program (NFIP), the Florida Building Code, and Section 158 of the Pinellas County Land Development Code, which includes the County's floodplain management and substantial damage requirements (Figure 1). This plan will be implemented in tandem with a forecasted storm event with the potential to cause structures to become substantially damaged. This plan is an appendix to the Pinellas County Comprehensive Emergency Management Plan (CEMP) and will be reviewed annually and updated on an as needed basis.

Beyond the required enforcement of substantial damage, this plan includes neighborhoods and specific buildings within unincorporated Pinellas County that may be subject to substantial damage and references relevant public information activities specific to substantial damage from the Multi-jurisdictional Program for Public Information (PPI) to ensure the public and elected officials are aware of flood hazards and resultant substantial damage requirements. Additionally, this plan provides long-term mitigation actions to protect buildings and reduce future flood damages. This plan is designed to improve awareness of the substantial damage process including pre-substantial damage efforts such as public engagement and mitigation, as well as post-substantial damage efforts, such as evaluating damaged buildings and enforcing floodplain management standards. The goal for Pinellas County is to become more disaster resistant and resilient.

Figure 1 Substantial Damage Procedure Overview



## 1.1 Substantial Damage Definitions

[Pinellas County Ordinance # 21-25](#), found in the Pinellas County Code, Part Three, Land Development Code, Chapter 158 – Floodplain Management provides the following definitions related to substantial damage:

- **Substantial damage** means damage of any origin sustained by a building or structure whereby the cost of restoring the building or structure to its before-damaged condition would equal or exceed 49 percent of the market value of the building or structure before the damage occurred. [Also defined in FBC, B, section 1612.2.]
- **Substantial improvement** means any combination of repair, reconstruction, rehabilitation, addition, or other improvement of a building or structure taking place during a rolling one (1) year period, the cost of which equals or exceeds 49 percent of the market value of the building or structure before the improvement or repair is started. The rolling period of accumulation for a building or structure begins when the permit for the first improvement is finale. If the building or structure has incurred "substantial damage," any repairs are considered substantial improvement regardless of the actual repair work performed. The term does not, however, include either: [Also defined in FBC, B, section 1612.2.]
  - Any project for improvement of a building required to correct existing health, sanitary, or safety code violations identified by the building official and that are the minimum necessary to assure safe living conditions.

- Any alteration of a historic structure provided the alteration will not preclude the structure's continued designation as a historic structure.

Note that the County's definitions of substantial damage and substantial improvement use a lower substantial improvement threshold of 49% instead of the NFIP standard of 50%. Initial substantial damage determinations made from the substantial damage inspection data and the building value do not include prior improvements or damages to a structure. Cumulative Substantial Improvement review and determinations is done during the permitting process. Review and reversal of the initial Substantial Damage Determinations based on more accurate building values and/or repair cost estimates may also occur during permitting.

[Pinellas County Ordinance # 21-25](#), also provides the following definition of market value, which is used when making substantial damage and substantial improvement determinations:

- **Market value** means the value of buildings and structures, excluding the land and other improvements on the parcel. As used in this chapter, the term refers to the actual cash value (like-kind replacement cost depreciated for age, wear and tear, neglect, and quality of construction), determined by a qualified independent appraiser, or the "Just Value" of the structure, developed by the Pinellas County Property Appraiser's Office (PAO) for Ad Valorem taxation purposes, adjusted to approximate market value, as determined by the PAO.

Market value can also be called Actual Cash Value (ACV). Market value, or ACV, is determined by the Pinellas County Property Appraiser's Office (PAO) or prepared by a qualified independent appraiser. See Appendix C for more detail on how ACV is determined.

## 2 SUBSTANTIAL DAMAGE VULNERABILITY

Flooding in the county is primarily related to heavy rainfall, storm surge, or a combination thereof. In recent years, astronomical tides have compounded these flooding issues.

The Pinellas County Flood Warning and Response Plan, located in Volume II of the Comprehensive Emergency Management Plan (CEMP), and the LMS describe the causes of flooding.

The LMS identifies and maps I Flood Hazard Areas (FHA), repetitive loss areas (RLA), and multiple levels of sea level rise (SLR) to describe the location of flood risk across the county.

According to [NOAA's National Centers for Environmental Information \(NCEI\) Storm Events Database](#), Pinellas County has experienced 131 flood events in the 26 years between 1996 and 2022. These events are summarized by type in Table 1. Notable events that have caused past substantial damage determinations are listed in Table 2.



*Table 1: Flood Event History in Pinellas County, 1966-2022*

Event Type	Event Count	Deaths	Injuries	Property Damages
Coastal Flood	1	0	0	\$20,000
Flash Flood	9	0	0	\$3,231,000
Flood	37	0	1	\$6,853,000
Heavy Rain	31	3	0	\$215,000
Hurricane	5	0	0	\$594,960,000
Storm Surge/Tide	19	0	0	\$9,950,000
Tropical Storm	30	0	1	\$128,486,000

*Table 2: Past Flood Events and Resulting Substantial Damages*

Event/Source of Damage	Number of Substantially Damaged Structures
Hurricane Hermine (2016)	21
Hurricane Irma (2017)	0
Tropical Storm Eta (2020)	16
Hurricane Ian (2022)	0

The County's historical substantial damage process was not well established. In 2016, the County recognized the need for process improvements and, beginning with Hurricane Hermine, substantial damage determinations were based on a preliminary damage assessment of "major" or "destroyed" for properties in the floodplain. Manual post-processing was completed to identify a list of properties for substantial damage inspections. These inspections were documented on paper substantial damage estimator worksheets. Substantial damage estimations were based on property appraiser structure values or a qualified estimate by the building official, which was then compared to the approximate damage repair costs based on ICC data. This process was also used for Tropical Storm Eta, after which the County identified the need for further process improvements.

In 2022, the County developed a new substantial damage process, as described in Section 3 of this plan. This process was beta tested following Hurricane Ian in 2022.

## 2.1 Areas of Concerns for Substantial Damage

Pinellas County identified areas at risk of substantial damage from flooding to estimate and prepare for potential future substantial damages. The County considered high flood risk areas including:

- Low-lying coastal areas (subject to tidal inundation with sea level rise)
- 25-year floodplains
- Repetitive loss areas

Pre-FIRM buildings within these areas were identified as being most susceptible to substantial damage. A total of 8,228 buildings were identified within unincorporated Pinellas County that have the potential to be substantially damaged.

Maps of these areas are stored within a GIS application. See Appendix A for the complete list of these properties that have the potential to be substantially damaged and a map of their approximate locations.

The list of properties in substantial damage areas includes 5,132 residential properties and 3,096 non-residential properties. This determination was made based on the design and construction of each building rather than its use, according to guidance in FEMA's SDE User Manual. As such, apartment buildings and condominiums are included among the count of non-residential structures. Table 3 summarizes the count of residential and non-residential properties by their use description. Note that some categories have been consolidated here; more detail is maintained in the property database. This list will be refined to reflect the potential impact from a particular storm in advance of SD inspections. For instance, if the forecast is for a 10-year rainfall event and a 25-year storm surge event, many of the interior structures on this list will be removed, as the expected level of flooding would not likely substantially damage those structures.

*Table 3: Summary of Properties Vulnerable to Substantial Damage*

<b>Property Use/Description</b>	<b>Property Count</b>
<b>Residential</b>	<b>5,132</b>
Manufactured Home	2,020
Single Family Home	3,112
<b>Non-Residential</b>	<b>3,096</b>
Convenience Stores	1
Department Stores	1
Retail Stores	14
Shopping Centers	3
Apartments Non-Residential	7
Duplex - 4-Plex	55
Garden Condominium	1,673
Mid Rise Condominium	435
High Rise Condominium	107
Townhouse	26
Villa	514
Manufactured Homes – Commercial, Shared, Special Use	6
Recreational/Clubhouses	45
Motel / Hotel	2
Residential Commercial Use / Conversions	35
Offices	36
Single Family Non-Residential	12
Religious Buildings	7
Restaurant / Lounge/Drive-In / Fast Food	7
Factory Buildings	2
Pre-Engineered Metal	40
Service Garages	1
Warehouses	67

## 2.2 Consideration of Mitigation Alternatives

Pinellas County plans for mitigation of substantially damaged properties through the County's LMS and RLAA. The RLAA identifies the following potential mitigation alternatives for repetitive loss properties (which comprise a subset of potential substantial damage properties) as well those properties with single past claims or similar flood conditions:

- Public education and outreach
- Acquiring and maintaining flood insurance
- Utility protection
- On-site stormwater management improvements (e.g., gutters, grading)
- Dry Floodproofing
- Elevation
- Conveyance System Maintenance
- Drainage Improvements (CIP)
- Acquisition

The LMS also identifies a variety of potential stormwater and drainage improvement projects as well as property acquisition projects to mitigate flood risk for vulnerable properties.

## 3 SUBSTANTIAL DAMAGE MANAGEMENT TEAM

The Pinellas County Floodplain Administrator is responsible for administration of the floodplain ordinance, and the Pinellas County Building Services Department is responsible for issuing permits. The Floodplain Administrator, with support from and coordination with the Building Official, will lead the County's substantial damage management strategy. According to Section 158-45 of Ordinance # 21-25, the Pinellas County Floodplain Administrator, in coordination with the Building Official, is responsible for reviewing applications for building permits to improve buildings and structure, including substantial improvements and repairs of substantial damage. In this process, the Building Official or designee also reviews previous permits issued for improvements or repairs as substantial improvement is measured over a one-year period.

The following is a list of team members and their responsibilities for substantial damage management:

- Floodplain Administrator
  - Provide training and outreach to the staff and contractors
  - Identify available resources
  - Notify relevant community departments and staff of substantial damage inspection needs and substantial damage determination status
  - Send substantial damage letters to structure owners

- Coordinate final storage of SI/SD files
  - Coordinate with relevant departments and staff on press releases and other outreach to provide information on flood hazards, floodplain map data, advisory flood data and compliance to residents and property owners
  - Assist Building Development and Review Services with complex applications for construction certifications, as requested
  - Track temporary occupancy permits and floodplain compliance violations issued by Building and Development Review Services (information to be provided by Building and Development Review Services and Code Enforcement)
  - Determine if damaged structures have been designated as historic or that may be eligible for such designation
  - Building Official and Assistant Building Official
    - Coordinate substantial damage inspections and determinations
    - Implement a procedure for properties with Temporary Certificates of Occupancy to be mitigated as soon as possible
    - Process, maintain, and track temporary occupancy permits and inspect temporary occupancy buildings
    - Take corrective action necessary to ensure compliance
    - Regularly document and require repairs of existing violations of state or local health, sanitary, or safety code specifications which have been identified by the Construction Code Official and are the minimum necessary to ensure safe living conditions. If appropriate, this pre-event documentation may be used by a qualified professional to adjust the market value of distressed properties after an event.
  - Property Appraiser
    - Initial damage assessment data collection
    - Assist in establishing market value for structures
  - Building Department and Building Inspector(s)
    - Initial damage assessment data collection
    - Substantial damage determination inspections and data collection
    - Distribute Substantial Damage Door Hanger
    - Notification on permitting procedures for rebuilding
    - Review and process permit applications
    - Determine if interim permitting procedure is necessary
-

- Track cumulative substantial improvement
  - Collect fees
  - Monitor impacted areas for unpermitted construction activities (Code Enforcement)
  - Inspect structures under construction for compliance
- GIS Analyst
  - Data collection application development and support
  - Post-processing of collected data
- Emergency Operations Chief
  - Assist in communicating to County Leadership before and after disaster
  - Coordinate with the Emergency Operations Center (EOC) Planning and Recovery Branch Teams for damage assessment
  - Request additional help through mutual aid agreement, as needed
- Fire Department(s) and Sheriff's Department
  - Complete preliminary storm impressions
- Public Information Office (PIO)
  - Provide information on substantial damage and substantial improvement to the public and property owners

### **3.1 Staff and Resource Needs**

Staff and resource needs for substantial damage management are based on the County's substantial damage process. The steps of this process and the associated staff and resource needs for each step are summarized in Table 4. Note that staff needs will be scaled up pending the nature and size of the flood event.

*Table 4: Substantial Damage Management Team Activities*

Activity	Staff/Department and Resource Needs
<b>Pre-Event</b>	
<b>1. Outreach:</b> Efforts are regularly made to educate residents, property owners, and public officials about substantial damage. <ul style="list-style-type: none"> <li>Website, Brochures, social media, and RLAA Letters (see PPI)</li> </ul>	<ul style="list-style-type: none"> <li>Public Information Office</li> <li>Floodplain Administrator</li> </ul>
<b>2. Coordination and Training:</b> The County must coordinate with other jurisdictions and outside resources to establish plans for mutual aid or on-call support. Ongoing training ensures the Substantial Damage Management Team is prepared for post-event action. <ul style="list-style-type: none"> <li>Florida Floodplain Managers Association (FFMA) classes hosted annually by Pinellas County ("Market Value", and "SI/SD")</li> <li>Pinellas County Damage Assessment training provided by Pinellas County Emergency Management annually prior to Hurricane Season</li> </ul>	<ul style="list-style-type: none"> <li>County Administrator</li> <li>Floodplain Administrator</li> <li>Building Official</li> <li>Emergency Operations Chief</li> </ul>
<b>3. Pre-Event Monitoring:</b> Pinellas County Emergency Management estimates the potentially impacted areas while monitoring the impending storm event. <ul style="list-style-type: none"> <li>Property Database (Chapter 4)</li> </ul>	<ul style="list-style-type: none"> <li>Floodplain Administrator</li> <li>GIS Analyst/GIS software</li> <li>EOC Planning Branch Team (if event results in activation)</li> </ul>
<b>Post-Event</b>	
<b>1. Communication:</b> Outreach regarding event impacts and substantial damage permit requirements is provided via multiple public information outlets (social media, website, alert systems, etc.) All outreach activities are detailed in the Flood Warning and Response Messaging Toolkit (see PPI). <ul style="list-style-type: none"> <li>Pinellas County Website (<a href="http://www.pinellascounty.org">www.pinellascounty.org</a>)</li> <li>E-News</li> <li>Press Release</li> <li>Media Alert</li> <li>PCC TV</li> <li>Social Media (Facebook, NextDoor, Twitter, Instagram)</li> <li>Substantial Damage Door Hanger</li> <li>Ready Pinellas app</li> <li>Citizen Information Center (call center)</li> </ul>	<ul style="list-style-type: none"> <li>Public Information Office</li> </ul>



Activity	Staff/Department and Resource Needs
<p><b>2. Storm Impressions:</b> Fire Districts utilize the Storm Impressions application on their mobile data terminals or through the internet to assess, collect, and communicate impact information to PCSES, PCEM, and other entities across the County to provide critical situational awareness about the scope and scale of damages. Storm Impressions displays a map of assessed locations, the level of damage, and additional notes regarding the impacts. Pinellas County Sherriff's Department may also perform helicopter flyovers to collect disaster imagery of the previously identified possible impacted areas. In some cases, drones may be used for data collection.</p>	<ul style="list-style-type: none"> <li>• Emergency Operations Chief</li> <li>• Sherriff's Department</li> <li>• Fire Department(s)</li> <li>• Drone/helicopter</li> </ul>
<p><b>3. Initial Damage Assessments:</b> Data from the storm impressions, and flights if performed, is provided to the damage assessment teams. These teams are sent to do initial damage assessments, which categorize property damages as inaccessible, affected, minor, major, or destroyed. Damage assessment data is recorded in the Pinellas County Damage Assessment Field Map application using a tablet or cell phone.</p>	<ul style="list-style-type: none"> <li>• Building Department</li> <li>• Property Appraiser's Office</li> <li>• Department of Administrative Services</li> <li>• GIS Analyst(s)</li> </ul>
<p><b>4. Substantial Damage Determinations:</b> The subset of unincorporated properties with damage assessments of major or destroyed that are within Pinellas County Floodplains require further evaluation for substantial damage. The Floodplain Administrator coordinates with the Building Department to initiate substantial damage inspections of these properties. The Building Department sends teams of two for field investigations to record detailed data in the Pinellas County Substantial Damage Field Map application using a tablet or cell phone. The Field Map app uses equations similar to the FEMA Substantial Damage Estimator (SDE) to make a substantial damage determination. The Floodplain Administrator reviews the results of the substantial damage determination analysis to prepare the notification letters address list.</p>	<ul style="list-style-type: none"> <li>• Floodplain Administrator</li> <li>• Building Official</li> <li>• Assistant Building Official</li> <li>• Building Inspectors</li> <li>• Property Appraiser's Office</li> <li>• GIS Analyst(s)</li> <li>• Tablets/Cell phones with field app</li> </ul>
<p><b>5. Notification Letters:</b> Letters are sent to property owners notifying them of the substantial damage determination.</p>	<ul style="list-style-type: none"> <li>• Floodplain Administrator</li> </ul>
<p><b>6. Property Flags:</b> Substantially damaged properties are mapped in the internal floodplain review application that is used for flood hazard determinations when a building permit application is received. If a building permit comes in for a property that has been substantially damaged, the building department can then flag the permit so the Floodplain Administrator and Building Official will know to require compliance with current code.</p>	<ul style="list-style-type: none"> <li>• Building Department</li> </ul>

Activity	Staff/Department and Resource Needs
<p><b>7. Appeals:</b> Property owners can appeal the substantial damage determination at the time they submit a permit application. Required information includes detailed cost of repairs and optional private appraisal. A plans examiner will review the supplemental information provided by the applicant along with the substantial damage determination information to evaluate the accuracy of the initial substantial damage determination. If the plans examiner determines that the structure was not substantially damaged, the substantial damage determination will be reversed.</p>	<ul style="list-style-type: none"> <li>• Building Department</li> </ul>
<p><b>8. Compliance:</b> For structures in the regulated floodplains, the flood desk staff generates the 'permit listing report' from the permitting software (Acella) by Parcel Number and the structure value report from PAO. Reports are submitted to plans examiner to review for Cumulative Substantial Improvement and to verify SD or review an SD appeal.</p>	<ul style="list-style-type: none"> <li>• Floodplain Administrator</li> <li>• Building Department</li> </ul>
<p><b>8. Enforcement:</b> If unpermitted work is observed, the County through its enforcement processes in accordance with state statute and County ordinances will respond accordingly, which may include a notice of violation (NOV) and/or citations or other administrative or judicial remedies. The County will work with the building owner and/or occupant to bring the building into compliance within a reasonable amount of time. If this does not occur, the County will pursue adjudicated action which may include Local Ordinance Violation (LOV) Court or Special Magistrate. This will be determined by the Floodplain Administrator and the enforcement division having authority on a case-by-case basis.</p>	<ul style="list-style-type: none"> <li>• Code Enforcement</li> <li>• Floodplain Administrator</li> <li>• Building Department</li> <li>• Attorney's Office</li> <li>• The Pinellas County Construction Licensing Board (PCCLB)</li> </ul>

The activities noted above should be started no later than two weeks after an event and with a goal for completion within four weeks; however, the timeline for completion is highly dependent on the scale of the event and its impacts. Additional time and/or additional resources may be needed for major disasters with significant impacts in the County. Given the vulnerability estimates reported in Section 2.1, the approximate number of buildings that the County would expect to receive substantial damage assessments with a significant event is 8,228. Assuming a two-person team can complete 20 inspections per day, the County would need up to 15 teams to complete inspections of all these properties within a four-week timeframe. The actual count of properties requiring substantial damage assessments is likely to be smaller as no single event is expected to cause such widespread damage.

Regardless of the scale of impacts, Pinellas County will strive to complete substantial damage determinations as quickly as possible because this information is essential to have prior to any requests for building permits for repairs. Additionally, this information will inform how much disaster assistance or grant funding might be needed for potential post-disaster mitigation.

## **4 PROPERTY DATABASE**

Using the list of properties in substantial damage areas described in Chapter 2, Pinellas County created a pre-populated property database with relevant building data needed to complete a damage assessment. This database will be used during post-event damage assessments to streamline the data collection process.

Data used to pre-populate the property database include:

- Parcel ID
- Parcel Description
- Foundation Type
- Building Type
- Building Address
- Living Units
- Quality
- Square Footage
- Effective Area
- Heated Area
- Year Built
- Property Use Description
- Depreciated Building Value

### **4.1 Sources of Information**

The majority of this building attribute data is retrieved from the County's parcel database. Depreciated building value is provided by the Pinellas County Property Appraiser's Office. This data is updated continually and will be updated post-event, if needed.

### **4.2 Compliance with the Federal Privacy Act**

Flood insurance claims data is not populated into the County's property database as this data is protected under the Privacy Protection Act and is in a secured file only accessible by specific County staff.



## **5 IMPLEMENTATION AND UPDATES**

This plan is an appendix to the Pinellas County Comprehensive Emergency Management Plan (CEMP) and will be reviewed annually and updated on an as needed basis. The CEMP is already adopted by the Board of County Commissioners (BOCC). The annual review and report for this plan will be provided to the BOCC at the same time the other floodplain management annual reports, including the Pinellas County Local Mitigation Strategy (LMS), the PPI, the Pinellas County Unincorporated Repetitive Loss Area Analysis (RLAA), and the Pinellas County Flood Insurance Assessment (FIA) annual reports, are submitted as consent agenda items. The reports are completed by Pinellas County Floodplain Management and are provided to the BOCC in advance of the meeting where consent agendas are voted on and staff are available to answer any questions, should there be any.

The County Floodplain Administrator in coordination with Pinellas County Emergency Management (PCEM) and other supporting departments will review and update this plan on an annual basis or as needed due to updates or changes in processes.

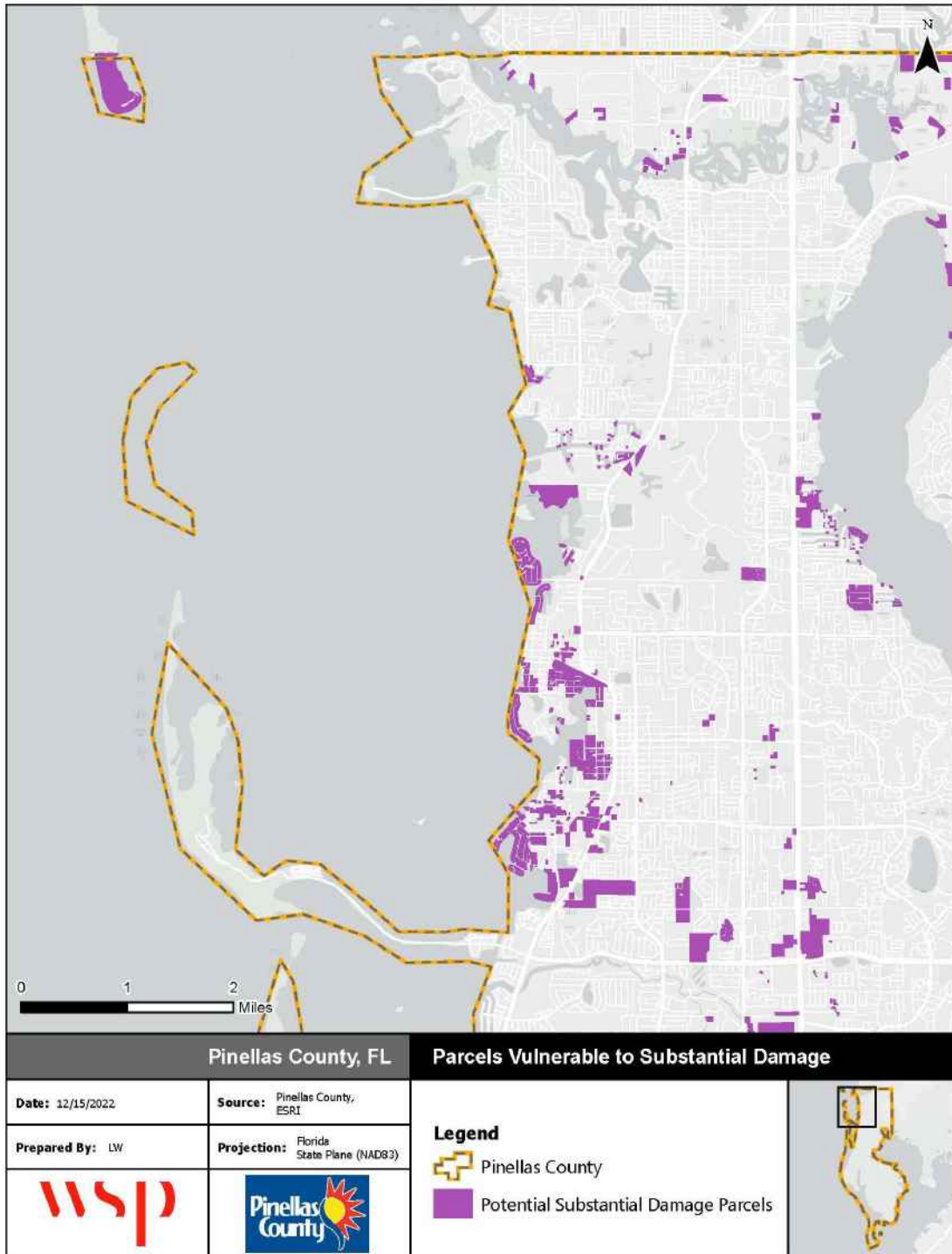
This chart documents the revisions made to this plan.

<b>Date</b>	<b>Page(s)</b>	<b>Change</b>

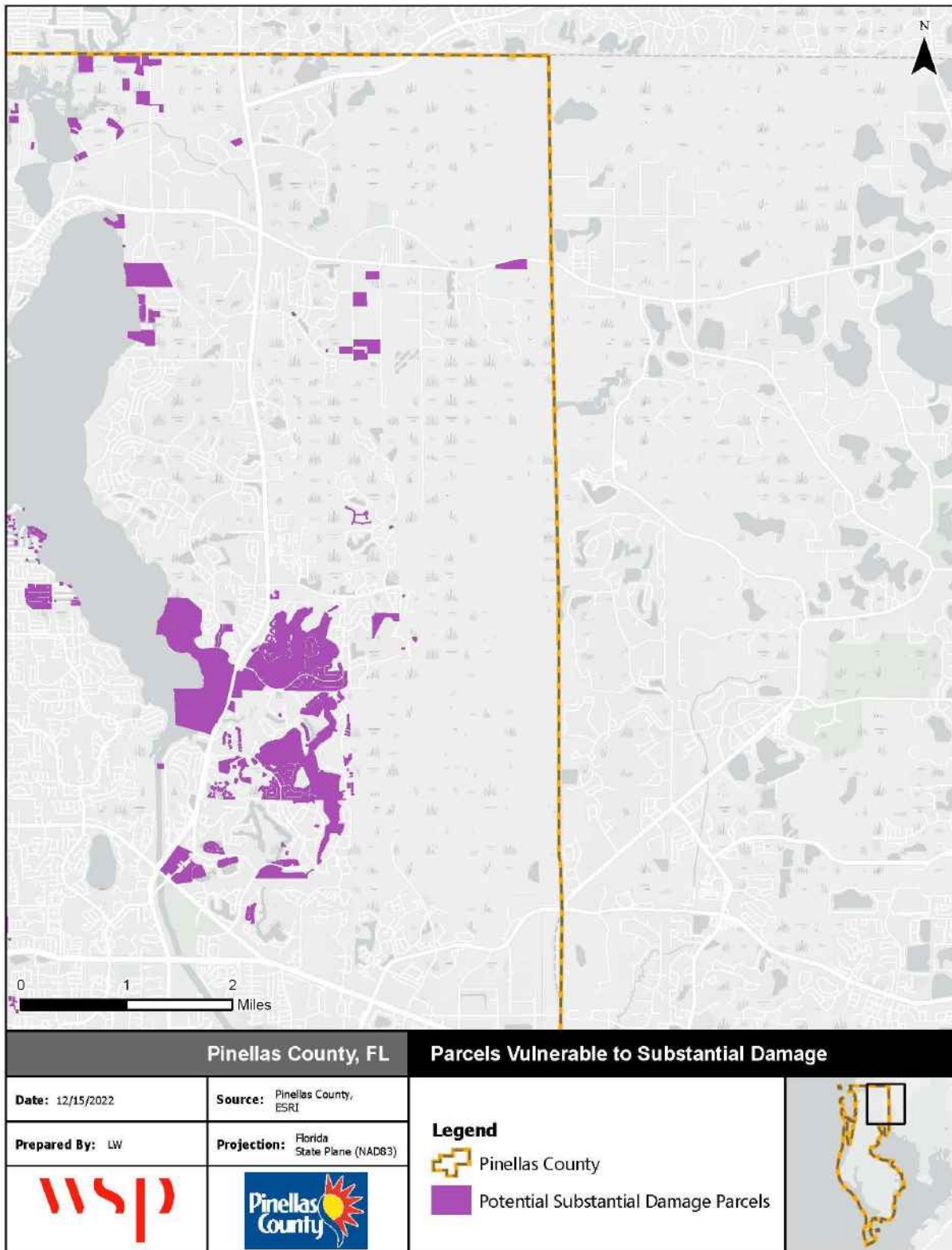
## **APPENDICES**

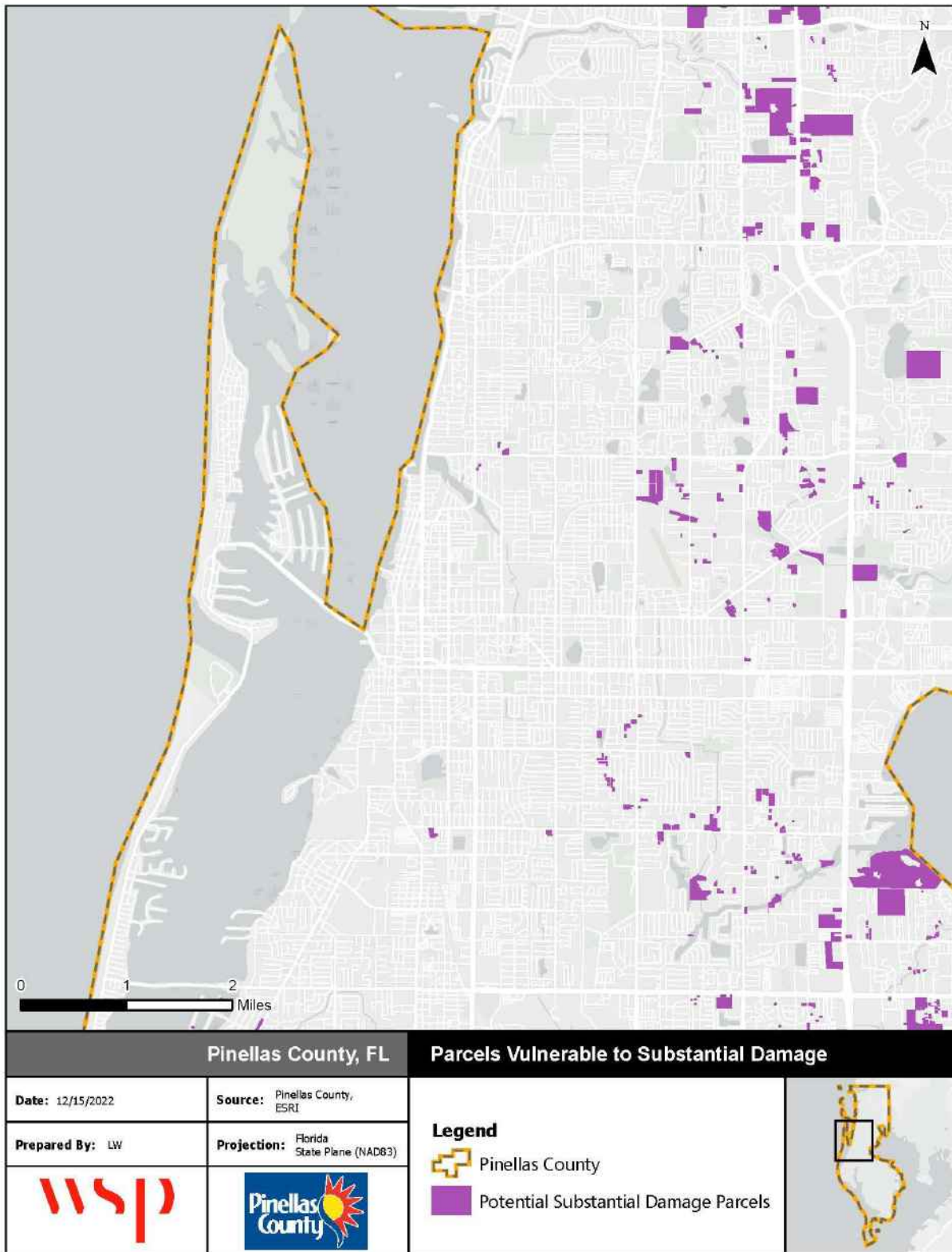
## Appendix A: Substantial Damage Area

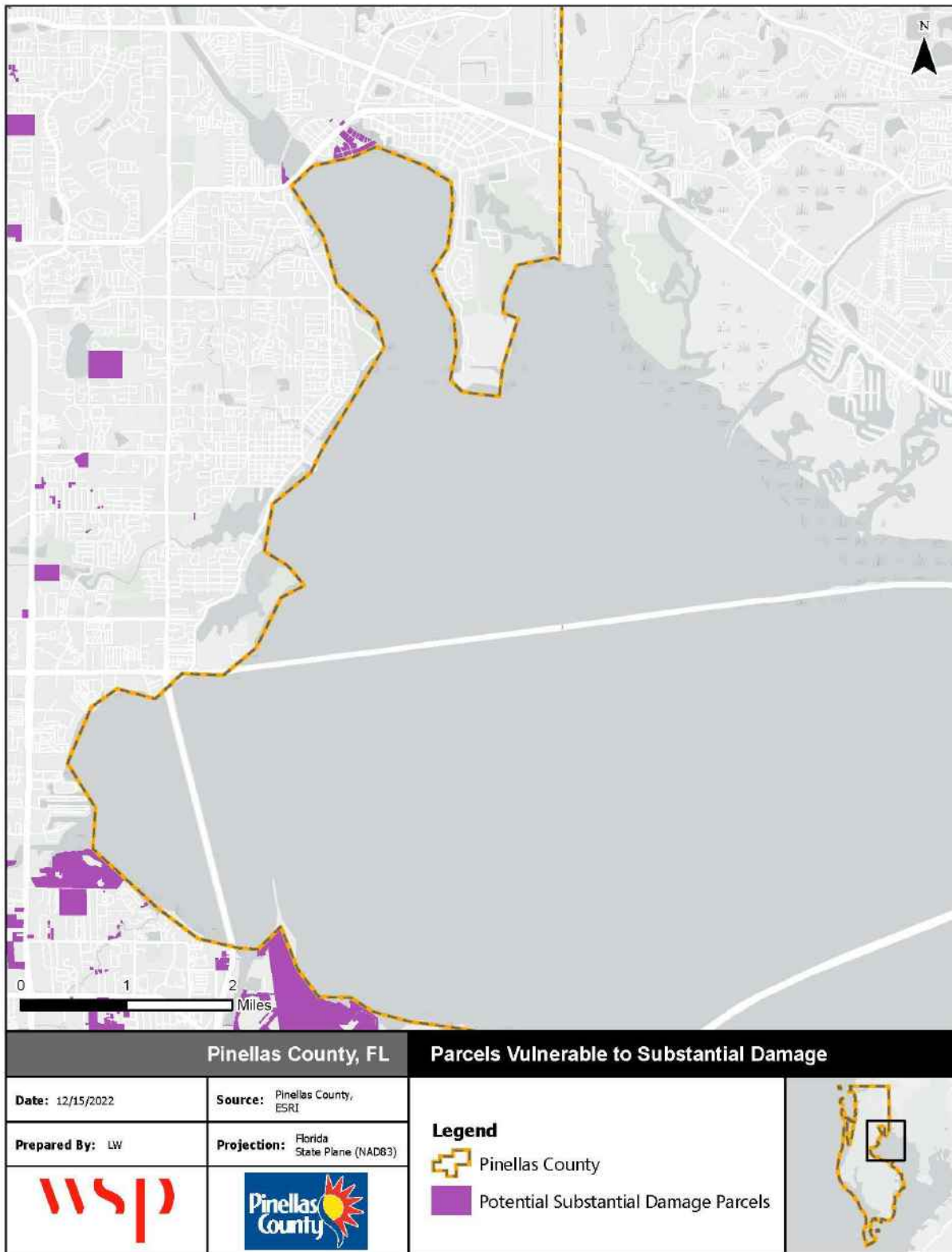
### Substantial Damage Areas



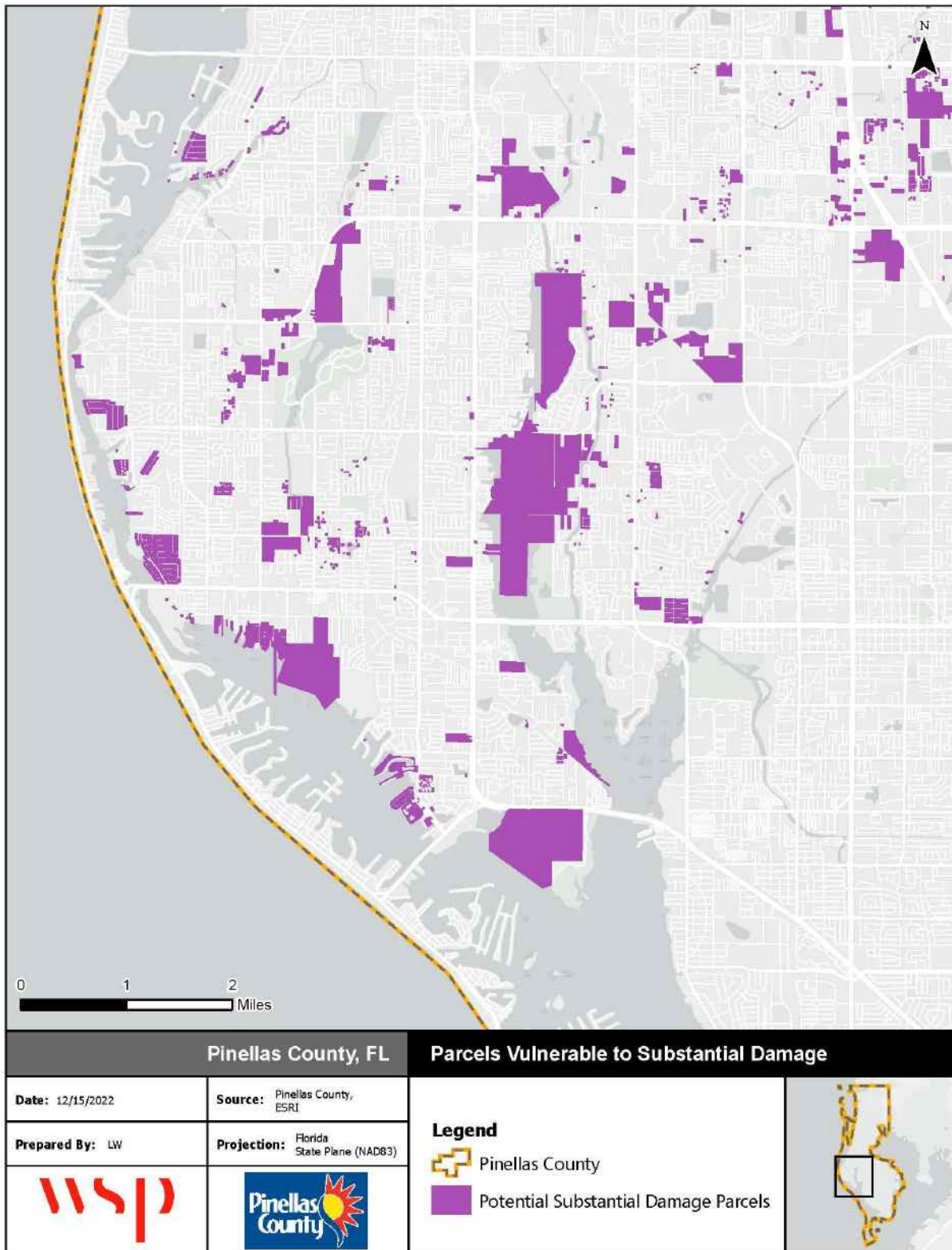


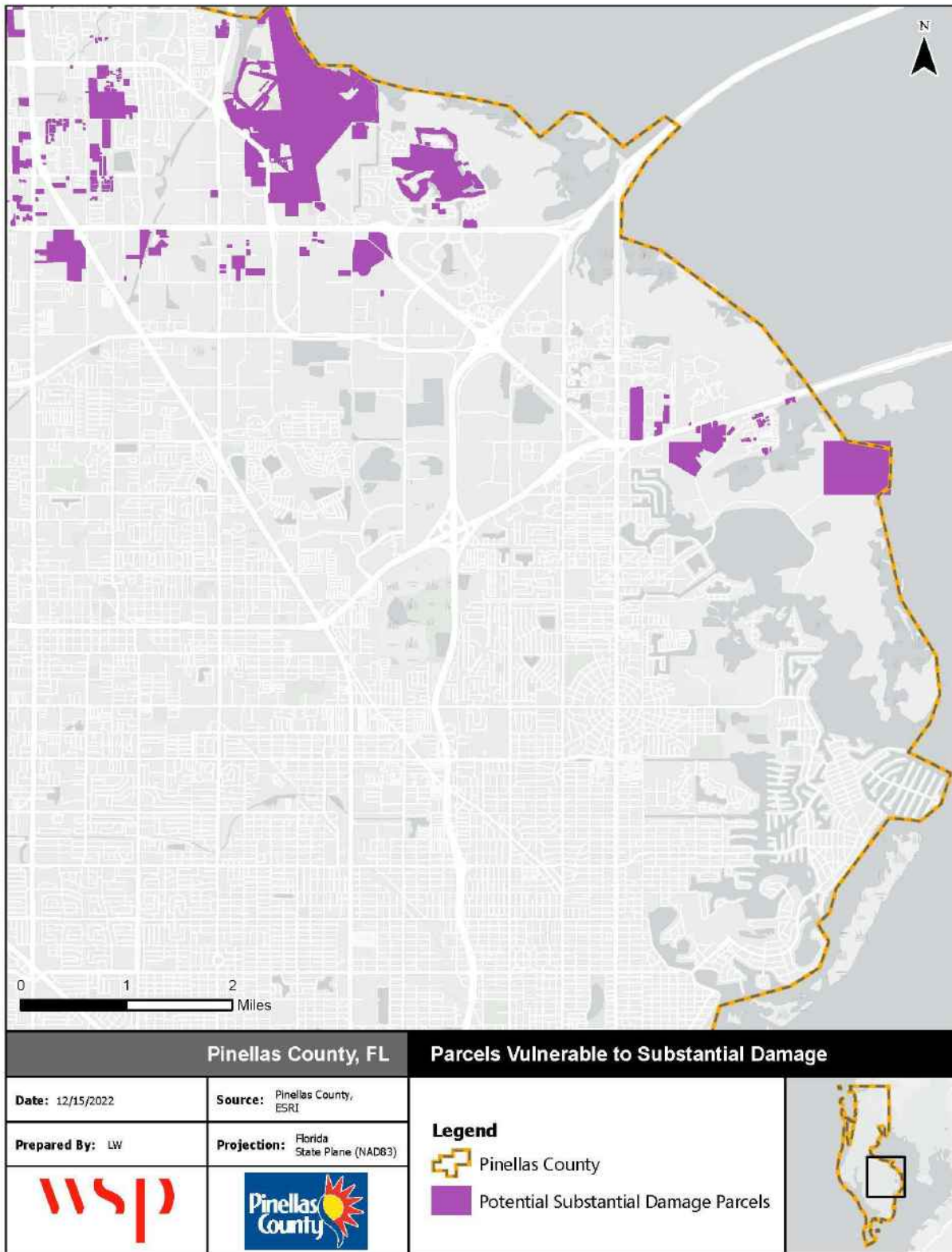


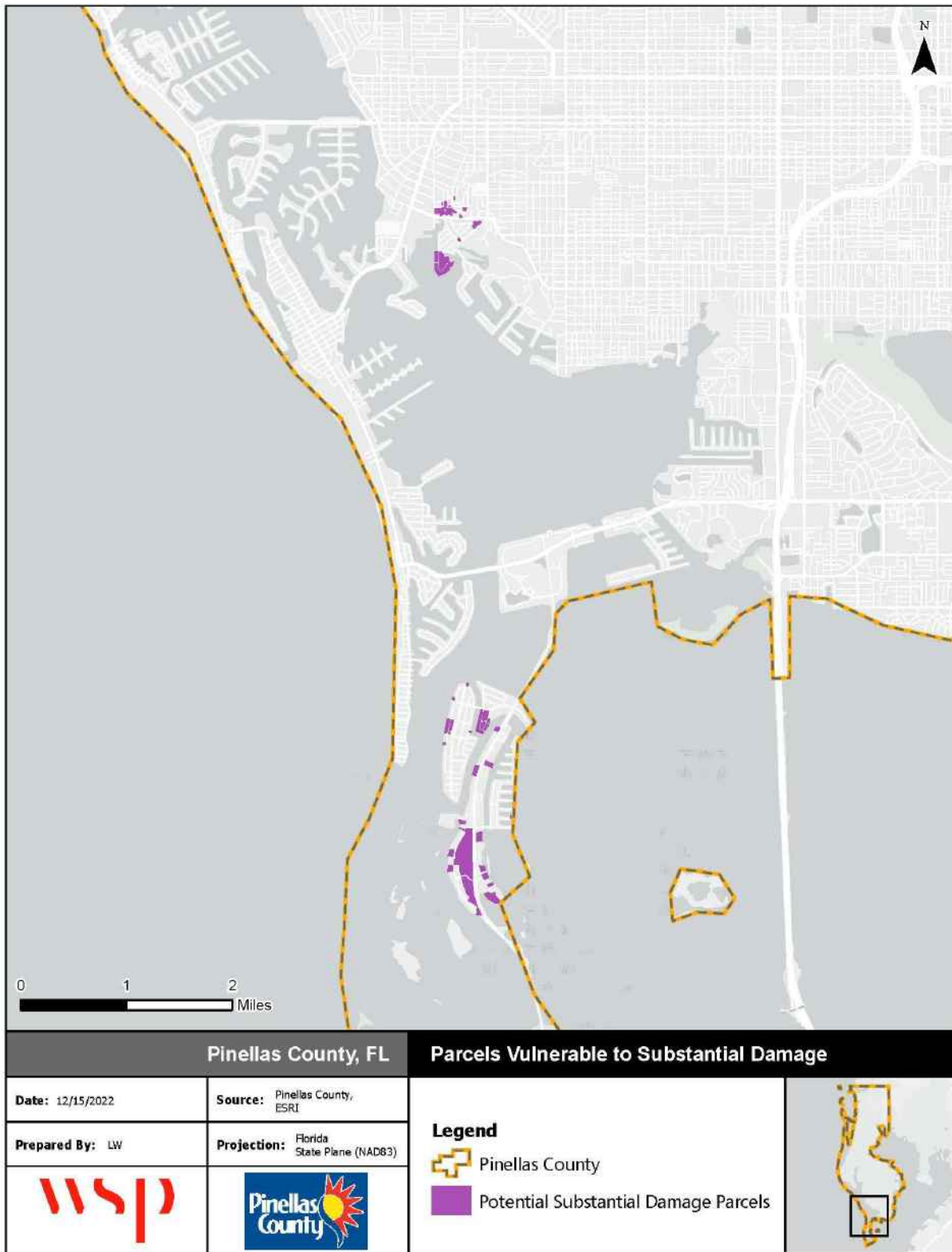














## Substantial Damage Property List

The screenshot below provides an example of the attribute data maintained for all potential substantial damage properties in the database, which is maintained in an Excel spreadsheet format and updated as needed. The Excel spreadsheet can be found on the Pinellas County SharePoint under "Floodplain Policies and Procedures"

([https://pinellasgov.sharepoint.com/:x:/r/sites/BCC/pw/Floodplain/Floodplain%20Policies%20%26%20Procedures/Substantial%20Damage%20SOG/PC\\_SDE\\_LowlyingBfyps\\_data\\_UnincPreFIRM\\_v20220920.xlsx?d=w74b67f6c5cb54d9dac86372e7852f0c4&csf=1&web=1&e=wVEMb3](https://pinellasgov.sharepoint.com/:x:/r/sites/BCC/pw/Floodplain/Floodplain%20Policies%20%26%20Procedures/Substantial%20Damage%20SOG/PC_SDE_LowlyingBfyps_data_UnincPreFIRM_v20220920.xlsx?d=w74b67f6c5cb54d9dac86372e7852f0c4&csf=1&web=1&e=wVEMb3))

	F	G	H	I	J	N	O	P	Q	R	S	T	U	V	W	X
1	PARCELNO	DESCRIPTION	FOUNDATION	FLOOR_SYSTEM	EXTERIOR_WALL	BUILDING	ROOF_FRAME	ROOF_COVER	STORIES	FLOOR_FINISH	INTERIOR_FINISH	FIXTURES	LIVING_UNITS	QUALITY	SQUARE_FOOTAGE	YEAR_BUILT
2	15 28 02 57888	(Single Family	Piers	Wood	Frame/Custom Wood	Single Family	Gable Or Hip	Metal Corrugated		1 Carpet/Hardtile/Hardwood	Drywall/Plaster	3	1 Average		1128	1910
3	15 28 11 29898	(Single Family	Piers	Wood	Frame Siding	Single Family	Gable Or Hip	Concrete Tile/Met		1 Carpet/Hardtile/Hardwood	Drywall/Plaster	3	1 Average		1272	1913
4	16 30 35 76464	(Duplex - 4-Plex	Continuous Foot	Wood	Frame Stucco	Duplex - 4-Plex	Gable Or Hip	Shingle Compositi		1 Carpet/ Vinyl/Asphalt	Wood/Wallboard	6	2 Fair		1508	1915
5	15 28 11 29898	(Res Comm Use	Piers	Wood	Frame Siding	Res Comm Use	Gable Or Hip	Shingle Compositi		2 Carpet/ Vinyl/Asphalt	Drywall/Plaster	6	0 Average		1350	1915
6	15 27 26 94591	(Recreational/Clubhouse	Piers	Wood W/O Sub Floo	Siding Average	Recreational/Club	Gable Or Hip	Composition Shin		1 Pine/Soft Wood	Wallboard	2	0 Fair		2239	1915
7	15 30 20 18612	(Single Family	Piers	Wood	Frame Siding	Single Family	Gable Or Hip	Shingle Compositi		1 Carpet/ Vinyl/Asphalt	Drywall/Plaster	3	1 Fair		2102	1919
8	15 27 35 19872	(Single Family	Piers	Wood	Frame/Custom Wood	Single Family	Gable Or Hip	Metal Corrugated		2 Carpet/Hardtile/Hardwood	Drywall/Plaster	6	1 Average		2524	1920
9	15 31 01 98262	(Single Family	Piers	Wood	Frame Stucco	Single Family	Gable Or Hip	Shingle Compositi		1 Carpet/Hardtile/Hardwood	Drywall/Plaster	3	1 Fair		1004	1920
10	16 27 16 00000	(Single Family	Continuous Foot	Slab Above Grade Lo	Frame Siding	Single Family	Gable Or Hip	Shingle Compositi		1 Carpet/ Vinyl/Asphalt	Drywall/Plaster	3	1 Fair		3582	1920
11	15 28 11 33624	(Single Family	Piers	Wood	Frame Siding	Single Family	Gable Or Hip	Metal Corrugated		1 Carpet/ Vinyl/Asphalt	Drywall/Plaster	3	1 Fair		1302	1920
12	15 28 02 57888	(Single Family	Piers	Wood	Frame/Reclad Alum/\	Single Family	Gable Or Hip	Concrete Tile/Met		2 Carpet/Hardtile/Hardwood	Drywall/Plaster	6	1 Average		2361	1920
13	16 30 34 23940	(Res Comm Use	Continuous Foot	Slab On Grade	Cb Stucco/Cb Reclad	Res Comm Use	Gable Or Hip	Shingle Compositi		1 Carpet/Hardtile/Hardwood	Drywall/Plaster	6	1 Average		802	1920
14	15 28 11 33624	(Single Family	Piers	Wood	Frame/Custom Wood	Single Family	Gable Or Hip	Shingle Compositi		1 Carpet/Hardtile/Hardwood	Drywall/Plaster	3	1 Fair		1192	1920
15	15 28 11 29898	(Multiple Res. Apts. < 4 S	Continuous Foot	Slab On Grade	Concrete Blk/Stucco	Multiple Res. Apt	Flat	Built Up/Compositi		2 Carpet Combination	Dry Wall	21	7 Average		5676	1921
16	15 28 11 29898	(Single Family	Piers	Wood	Frame Siding	Single Family	Gable Or Hip	Shingle Compositi		1 Carpet/Hardtile/Hardwood	Drywall/Plaster	3	1 Average		1386	1921
17	15 27 35 19872	(Single Family	Continuous Foot	Slab On Grade	Frame Stucco	Single Family	Gable Or Hip	Shingle Compositi		2 Carpet/Hardtile/Hardwood	Drywall/Plaster	5	1 Average		3185	1922
18	15 30 11 41832	(Single Family	Continuous Foot	Wood	Frame Siding	Single Family	Gable Or Hip	Metal Corrugated		1 Carpet/ Vinyl/Asphalt	Drywall/Plaster	12	1 Average		2150	1923
19	15 27 35 19872	(Single Family	Continuous Foot	Slab On Grade	Cb Stucco/Cb Reclad	Single Family	Gable Or Hip	Shingle Compositi		1 Carpet/Hardtile/Hardwood	Drywall/Plaster	3	1 Average		1221	1923
20	16 30 34 38754	(Single Family	Piers	Wood	Frame Siding	Single Family	Gable Or Hip	Metal Shingle		2 Carpet/ Vinyl/Asphalt	Drywall/Plaster	3	1 Fair		1235	1924
21	15 30 33 79632	(Single Family	Continuous Foot	Wood	Frame/Custom Wood	Single Family	Gable Or Hip	Shingle Compositi		2 Carpet/ Vinyl/Asphalt	Drywall/Plaster	9	2 Average		2792	1924
22	15 29 27 07902	(Single Family	Piers	Wood	Frame Siding	Single Family	Gable Or Hip	Shingle Compositi		1 Carpet/Hardtile/Hardwood	Drywall/Plaster	6	1 Average		1631	1924
23	15 30 18 00000	(Single Family	Piers	Wood	Frame Siding	Single Family	Gable Or Hip	Shingle Compositi		1 Carpet/ Vinyl/Asphalt	Drywall/Plaster	3	1 Average		1092	1924
24	16 30 34 29628	(Duplex - 4-Plex	Piers	Wood	Frame/Reclad Alum/\	Duplex - 4-Plex	Gable Or Hip	Shingle Compositi		1 Carpet/ Vinyl/Asphalt	Wood/Wallboard	9	3 Average		1502	1924
25	15 28 11 33624	(Single Family	Piers	Wood	Frame Stucco	Single Family	Gable Or Hip	Shingle Compositi		1 Carpet/ Vinyl/Asphalt	Drywall/Plaster	3	1 Fair		1272	1924
26	15 28 11 00000	(Duplex - 4-Plex	Piers	Wood	Frame/Reclad Alum/\	Duplex - 4-Plex	Gable Or Hip	Shingle Compositi		1 Carpet/Hardtile/Hardwood	Drywall/Plaster	6	2 Fair		1876	1925
27	16 30 35 00000	(Res Comm Use	Continuous Foot	Wood	Frame Siding	Res Comm Use	Gable Or Hip	Shingle Compositi		1 Carpet/ Vinyl/Asphalt	Wood/Wallboard	5	0 Average		1304	1925
28	15 27 35 19872	(Single Family	Continuous Foot	Wood	Frame/Reclad Alum/\	Single Family	Gable Or Hip	Shingle Compositi		2 Carpet/Hardtile/Hardwood	Drywall/Plaster	3	1 Average		1700	1925
29	16 30 35 01404	(Single Family	Piers	Wood	Frame Siding	Single Family	Gable Or Hip	Shingle Compositi		1 Carpet/ Vinyl/Asphalt	Drywall/Plaster	3	1 Fair		852	1925
30	16 29 33 70380	(Single Family	Piers	Wood	Frame/Reclad Alum/\	Single Family	Gable Or Hip	Shingle Compositi		1 Carpet/ Vinyl/Asphalt	Drywall/Plaster	3	1 Average		1610	1925
31	16 30 35 00000	(Single Family	Continuous Foot	Wood	Frame/Brick/Stone/1c	Single Family	Gable Or Hip	Concrete Tile/Met		2 Carpet/Hardtile/Hardwood	Drywall/Plaster	9	1 Average		7744	1925
32	15 28 01 88560	(Multiple Res. Apts. < 4 S	Continuous Foot	Wood W/Sub Floor	Frame Stucco	Multiple Res. Apt	Gable Or Hip	Metal Shingle		2 Carpet Combination	Dry Wall	22	8 Average		6013	1925
33	15 28 11 29898	(Single Family	Continuous Foot	Slab Above Grade Lo	Frame Siding	Single Family	Gable Or Hip	Shingle Compositi		1 Carpet/Hardtile/Hardwood	Drywall/Plaster	3	1 Average		2442	1925
34	15 28 12 37674	(Single Family	Continuous Foot	Slab On Grade	Frame/Reclad Alum/\	Single Family	Gable Or Hip	Shingle Compositi		1 Carpet/Hardtile/Hardwood	Upgrade	17	1 Above Average		6940	1925
35	15 28 11 29898	(Retail Stores	Continuous Foot	Slab On Grade	Siding Average	Retail Stores	Gable Or Hip	Corrugated Metal		1 Carpet Combination	Dry Wall	6	0 Average		4132	1925
36	15 28 11 29898	(Single Family	Piers	Wood	Frame/Reclad Alum/\	Single Family	Gable Or Hip	Concrete Tile/Met		2 Carpet/Hardtile/Hardwood	Upgrade	10	1 Above Average		5461	1925
37	15 27 35 19872	(Single Family	Continuous Foot	Wood	Frame Stucco	Single Family	Flat Shed	Bu Tar & Gravel A		1 Hard Tile/Wood/Marble	Upgrade	6	1 Average		2016	1925
38	15 27 35 19872	(Single Family	Piers	Wood	Frame Siding	Single Family	Gable Or Hip	Shingle Compositi		1 Carpet/Hardtile/Hardwood	Drywall/Plaster	3	1 Average		1621	1925
39	16 30 35 01404	(Single Family	Piers	Wood	Frame/Reclad Alum/\	Single Family	Gable Or Hip	Shingle Compositi		1 Carpet/Hardtile/Hardwood	Drywall/Plaster	3	1 Fair		836	1925
40	15 29 03 36666	(Single Family	Piers	Wood	Frame/Reclad Alum/\	Single Family	Gable Or Hip	Shingle Compositi		1 Carpet/ Vinyl/Asphalt	Drywall/Plaster	3	1 Fair		868	1925

## **Appendix B: Substantial Damage Inspection Reference Materials**

The intent of initial damage assessments is to identify every affected structure and those with obvious structural damage. Initial damage assessments should be completed in the first several days after an event, depending on the scale of the event, to ensure an accurate assessment of damages. All damaged structures are assigned a damage rating of inaccessible, affected, minor, major, or destroyed. Those identified in the initial damage assessments to be rated major or destroyed are flagged for a follow up Substantial Damage inspection. Inspectors will use the reference materials in this appendix for the SD inspections and damage data collection.

Some rules of thumb that the team will use during this initial screening include the following:

- If a structure has been moved off its foundation or if there is major foundation damage, it is nearly certain that it has been substantially damaged.
- If flood depths exceed two feet above the first (primary) floor on a traditionally constructed (frame) building, the structure may be approaching substantial damage thresholds.
- If flood depths exceed one foot on a mobile or manufactured home, the structure may be approaching substantial damage thresholds.

Door Hangers will be placed on those structures that may be substantially damaged. Included herein are the substantial damage inspection and data collection worksheets and associated guidelines for completing the percent damages.

## Substantial Damage Door Hanger



**YOUR BUILDING MAY BE  
SUBSTANTIALLY DAMAGED  
BASED ON AN INITIAL DAMAGE  
ASSESSMENT BY PINELLAS COUNTY**

### What is Substantial Damage?

If your building is in a floodplain and the cost to repair it equals or exceeds 49% of the value of the building before the damage occurred, then it is considered **substantially damaged**.

Visit [pinellas.gov/sdsi/](http://pinellas.gov/sdsi/) to learn more or call (727) 464-3888 with questions.

### Substantial Damage Flood Insurance Benefit

Your flood insurance policy may include Increased Cost of Compliance (ICC) coverage. This means that if your structure sustained substantial damages from flooding, the National Flood Insurance Program (NFIP) may pay up to \$30,000 to help make your building compliant.

### Build Back Safer and Stronger

- Substantially Damaged buildings must be brought into compliance with new building codes.
- Contact your insurance agent before starting work. Do not sign an *Assignment of Benefits* contract as a condition of having your building repaired.
- Find out what the flood hazard and required development standards are BEFORE you develop your plans.
- Consider building stronger to withstand future storms.
- Get required permits before you start any building repair, improvement, or construction.
- Hire a licensed contractor. To find a contractor or confirm a contractor's license is legitimate and current, visit Pinellas County Construction Licensing Board (PCCLB) at [www.pcclb.com](http://www.pcclb.com).

**Report Storm Damage at [disaster.pinellas.gov](http://disaster.pinellas.gov)**



**PREPARE FOR YOUR  
INSURANCE CLAIM**

### Take Photos and Make a List of Damaged Contents

- Take pictures and video of any damage to the exterior and interior of your building, including the walls, insulation and baseboards in each room.
- Prepare a room-by-room list of damaged belongings. Document serial numbers of damaged appliances and furniture.

### Remove Wet Contents Promptly

Wet carpeting, furniture, bedding, and other items holding moisture can develop mold within 24 to 48 hours. Keep samples of damaged carpet and contents until after the adjuster's inspection. Visit [disaster.pinellas.gov](http://disaster.pinellas.gov) for tips on cleaning up after a flood.

### File Your Insurance Claims Promptly

There are time limitations on submitting claims with many insurance companies. Do not sign an *Assignment of Benefits* contract as a condition of having your building repaired. Pinellas County Flood Insurance Advocates are available to answer any questions you have about your flood insurance or the claims process. Visit [pinellas.gov/flood-advocates/](http://pinellas.gov/flood-advocates/) or call (727) 464-7700 for flood insurance assistance.

Pinellas County complies with the Americans with Disabilities Act.  
To obtain accessible formats of this document, please call (727) 464-4062 (V/TDD).  
Funding for this announcement was provided by Pinellas County Public Works.  
Produced with cooperation with Pinellas County Communications. 11/22

**For additional information, visit  
[Pinellas.gov/flooding](http://Pinellas.gov/flooding)**



## Substantial Damage Collector Worksheets

### Residential Building

#### SDE Residential Worksheet

**Inspection #** \_\_\_\_\_ **Inspector Name** \_\_\_\_\_  
**PROPERTY LOCATION** **Photo #** \_\_\_\_\_ **Date** \_\_\_\_\_  
**Latitude:** \_\_\_\_\_ **Longitude:** \_\_\_\_\_  
**Street Address** \_\_\_\_\_  
**City, State, Zip** \_\_\_\_\_  
**County** \_\_\_\_\_

**STRUCTURE ATTRIBUTES**

**Residence Type:** ☐ Single Family Residence ☐ Continuous Wall w/Slab  
☐ Town or Row House ☐ Basement  
☐ Manufactured House ☐ Crawlspace  
☐ Piles ☐ Slab-on-Grade  
☐ Piers & Posts

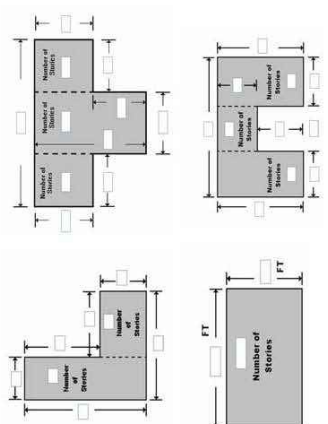
**Superstructure:** ☐ Stud-Framed ☐ Roof Covering: ☐ Shingles – Asphalt, Wood  
☐ Common Brick ☐ Clay Tile ☐ Standing Seam (Metal)  
☐ ICF ☐ Slate  
☐ Masonry

**Exterior Finish:** ☐ Siding or Stucco ☐ HVAC System: ☐ Heating and/or Cooling  
☐ Brick Veneer ☐ EIFS ☐ None  
☐ None – common brick, structural

**Story:** ☐ One Story ☐ Quality: ☐ Low ☐ Budget ☐ Average ☐ Good ☐ Excellent  
☐ Two or more Stories

**Year of Construction:** \_\_\_\_\_  
**Date Damage Occurred:** \_\_\_\_/\_\_\_\_/\_\_\_\_  
**Cause of Damage:** ☐ Fire ☐ Duration of Flood: \_\_\_\_ Hours ☐ Days  
☐ Flood ☐ Flood and Wind ☐ Depth of Flood Above Ground: \_\_\_\_\_  
☐ Seismic ☐ Wind ☐ Depth of Flood Above 1<sup>st</sup> Floor: \_\_\_\_\_  
☐ Other

**DIAGRAM w/ MEASUREMENTS and NUMBER OF STORIES:**



**ELEMENT PERCENTAGES**

Foundation	_____ %	Cabinets & Countertops	_____ %
Superstructure	_____ %	Floor Finish	_____ %
Roof Covering	_____ %	Plumbing	_____ %
Exterior Finish	_____ %	Electrical	_____ %
Interior Finish	_____ %	Appliances	_____ %
Doors and Windows	_____ %	HVAC	_____ %

**MISC NOTES:**



## Residential Manufactured Home

### SDE Manufactured Home Worksheet

**Inspection #** \_\_\_\_\_ **Photo #** \_\_\_\_\_ **Inspector Name** \_\_\_\_\_ **Date** \_\_\_\_\_  
**PROPERTY LOCATION**  
 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_  
 Street Address \_\_\_\_\_  
 City, State, Zip \_\_\_\_\_  
 County \_\_\_\_\_

**STRUCTURE ATTRIBUTES**

**Residence Type:** ☐ Manufactured House **Foundation:** ☐ Continuous Wall w/Slab  
☐ Basement  
☐ Crawlspace  
☐ Piles  
☐ Slab-on-Grade  
☐ Piers & Posts

**Superstructure:** ☐ Stud-Framed **Roof Covering:** ☐ Shingles – Asphalt, Wood  
☐ Common Brick ☐ Clay Tile  
☐ ICF ☐ Standing Seam (Metal)  
☐ Masonry ☐ Slate

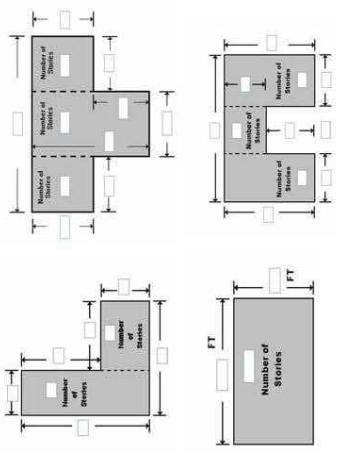
**Exterior Finish:** ☐ Siding or Stucco **HVAC System:** ☐ Heating and/or Cooling  
☐ Brick Veneer ☐ None  
☐ EIFS ☐ None – common brick, structural

**Skory:** ☐ One Story **Quality:** ☐ Low  
☐ Two or more Stories ☐ Budget  
☐ Average  
☐ Good  
☐ Excellent

**Year of Construction:** \_\_\_\_\_  
**Date Damage Occurred:** \_\_\_\_/\_\_\_\_/\_\_\_\_  
**Cause of Damage:** ☐ Fire  
☐ Flood  
☐ Flood and Wind  
☐ Seismic  
☐ Wind  
☐ Other

**Duration of Flood:** \_\_\_\_\_ ☐ Hours ☐ Days  
**Depth of Flood Above Ground:** \_\_\_\_\_  
**Depth of Flood Above 1<sup>st</sup> Floor:** \_\_\_\_\_

**DIAGRAM w/ MEASUREMENTS and NUMBER OF STORIES:**



**ELEMENT PERCENTAGES**

Superstructure	_____ %	Floor Finish	_____ %
Roof Covering	_____ %	Plumbing	_____ %
Exterior Finish	_____ %	Electrical	_____ %
Interior Finish	_____ %	Appliances	_____ %
Doors and Windows	_____ %	HVAC	_____ %
Cabinets & Countertops	_____ %	Skirting/Forms Piers	_____ %

**MISC NOTES:**

## Non-Residential Building

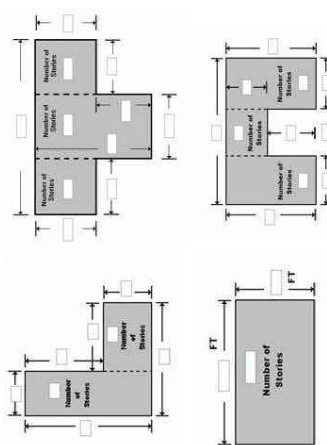
### SDE Non-Residential Worksheet

**Inspection #** \_\_\_\_\_ **Inspector Name** \_\_\_\_\_  
**PROPERTY LOCATION** **Photo #** \_\_\_\_\_ **Date** \_\_\_\_\_  
 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_  
 Street Address \_\_\_\_\_  
 City, State, Zip \_\_\_\_\_  
 County \_\_\_\_\_

**STRUCTURE ATTRIBUTES**  
**Story:** ☐ One ☐ Two thru Four ☐ Five or more  
**Structure Use :** \_\_\_\_\_  
Description: Apartments, Courthouse, Dept. Store, High School, Hospital, Industrial, Long-Term Care Facility, Motel, Municipal Building, Office Building or Police Station.

**Sprinkler System:** ☐ Yes ☐ No **Conveyance (Elevator/Escalator):** ☐ Yes ☐ No  
**Quality:** ☐ Low ☐ Good ☐ Average ☐ Budget ☐ Excellent  
**Year of Construction:** \_\_\_\_/\_\_\_\_/\_\_\_\_  
**Date Damage Occurred:** \_\_\_\_/\_\_\_\_/\_\_\_\_  
**Cause of Damage:** ☐ Fire ☐ Flood ☐ Flood and Wind ☐ Seismic ☐ Wind ☐ Other  
☐ No Physical Damage

**DIAGRAM w/ MEASUREMENTS and NUMBER OF STORIES:**



**ELEMENT PERCENTAGES**

Foundation	_____ %	Plumbing	_____ %
Superstructure	_____ %	Electrical	_____ %
Roof Covering	_____ %	HVAC	_____ %
Interiors	_____ %		

**MISC NOTES:**



**Residential vs. Non-Residential Assessments (Table 3-3, Substantial Damage Estimator User Manual, FEMA)**

Residential Assessments	Non-Residential Assessments
<ul style="list-style-type: none"><li>• Single-family (SF), stick-built structures</li><li>• Row or town houses, duplexes</li></ul>	<ul style="list-style-type: none"><li>• Non-residential structures such as office buildings, factories, schools, hospitals, etc.</li><li>• Apartment buildings</li></ul>
Residential Assessments	Non-Residential Assessments
<ul style="list-style-type: none"><li>• Manufactured houses (MHs)</li></ul>	<ul style="list-style-type: none"><li>• Condominiums with single floor units above or below</li></ul> <p><b>Note:</b> Condominiums with multiple floors, but without separate units above or below should be evaluated as a town house and data should be entered using a residential assessment form.</p>

**Residential Structure Elements (Table 3-6, Substantial Damage Estimator User Manual, FEMA)**

Element	Description
<b>1. Foundations</b>	<ul style="list-style-type: none"> <li>• Continuous perimeter footings</li> <li>• Footings</li> <li>• Piers</li> <li>• Foundation-level components not included in other elements</li> </ul>
Element	Description
<b>2. Superstructure</b>	<ul style="list-style-type: none"> <li>• Wall support system extending from the foundation wall to the roof structure</li> <li>• Exterior wall</li> <li>• Sheathing panels</li> <li>• Shear panels</li> <li>• Bracing panels</li> <li>• Structural members that support the roof deck, such as rafters and trusses, but not roof sheathing</li> </ul>
<b>3. Roof covering</b>	<ul style="list-style-type: none"> <li>• Covering material (shingles, tile, slate, metal roofing, built-up roofing)</li> <li>• Roof sheathing</li> <li>• Roof flashing</li> <li>• Does not include structural framing members that support the roof deck</li> </ul>
<b>4. Exterior finish</b>	<ul style="list-style-type: none"> <li>• Wall covering system on top of the wall sheathing (e.g., stucco, vinyl or wood siding, brick veneer, stone veneer)</li> <li>• Insulation and weather stripping</li> </ul>
<b>5. Interior finish</b>	<ul style="list-style-type: none"> <li>• Gypsum board, drywall, plaster, or paneling that makes up the wall and ceiling surfaces.</li> <li>• Trim around door and window frames</li> <li>• Baseboard</li> <li>• Casings</li> <li>• Chair rails</li> <li>• Ceiling Moldings</li> </ul>
<b>6. Doors and windows</b>	<ul style="list-style-type: none"> <li>• All interior and exterior doors and windows</li> <li>• Locks</li> <li>• Hinges</li> <li>• Frames</li> <li>• Handles</li> </ul>
<b>7. Cabinets and countertops</b>	<ul style="list-style-type: none"> <li>• Built-in, wall-mounted, or isolated cabinets and countertops (kitchens and bathrooms)</li> </ul>

<b>8. Floor finish</b>	<ul style="list-style-type: none"> <li>• Carpet</li> <li>• Hardwood</li> <li>• Vinyl composition tile</li> <li>• Sheet vinyl</li> <li>• Ceramic tile</li> <li>• Marble</li> <li>• Does not include carpet or re-carpeting installed over finished flooring, such as wood or tile</li> </ul>
Element	Description
<b>9. Plumbing</b>	<ul style="list-style-type: none"> <li>• Incoming water service (municipal water supply or well service)</li> <li>• Plumbing fixtures</li> <li>• Water heater</li> <li>• Water distribution system</li> <li>• Wastewater collection and removal system</li> </ul>
<b>10. Electrical</b>	<ul style="list-style-type: none"> <li>• Electrical wiring systems (junction boxes, circuit breaker panels, distribution wiring, outlets, switches, receptacles)</li> <li>• Lighting</li> <li>• Ceiling and exhaust fans</li> <li>• Electric baseboard heaters</li> </ul>
<b>11. Appliances</b>	<ul style="list-style-type: none"> <li>• All built-in, permanent appliances in the structure</li> </ul>
<b>12. HVAC</b>	<ul style="list-style-type: none"> <li>• The system with which conditioned air is distributed throughout the structure; a typical system in residential structures involves a forced-air heating system with duct work</li> <li>• Exterior air conditioning units</li> <li>• Heat pumps</li> <li>• Furnaces</li> </ul>

HVAC = heating, ventilation, and air conditioning

**Features to Evaluate during Interior Inspections of Structures (Table 9-2, Substantial Damage Estimator User Manual, FEMA)**

Element	Description	What to Look For
Foundation (residential and non-residential structures)	Damage that is significant enough to affect the overall structural stability of the foundation.	Settlement, lateral displacement, or cracking not visible from the exterior. This is especially important for homes with basements or crawlspace foundations. Check for foundation damage that may not be visible during the exterior inspection.
Superstructure (residential and non-residential structures)	Damage that either currently or in the future could affect the structural stability of the structure, including the wall support systems as well as roof trusses and framing.	<ul style="list-style-type: none"> <li>• Wall support system: Deformation or distortion of the structural frame that is not visible from the exterior</li> <li>• Roof support system: <ul style="list-style-type: none"> <li>– For intact ceilings, look for sagging, water marks, dripping water, or other damage that may indicate truss or roof framing damage.</li> <li>– For removed ceilings, view the truss and roof framing for damage.</li> </ul> </li> </ul>
Roof covering (residential and non-residential structures)	Damage to the roof sheathing, shingles/tiles, flashing, or other elements that are part of the roof covering.	Sagging, water marks, and dripping water could indicate roof covering damage. Also, look for daylight entering through holes in the roof or warped sheathing not visible from the exterior.
Interior finish (residential) Interiors (non-residential)	Damage should be evaluated for a height above the interior high water mark. For two-story homes with similar square footage on each floor, the first floor accounts for approximately 50 percent of the total quantity of these interior finish items in the house. All painted, stained, papered, or paneled surfaces touched by floodwaters are assumed to at least require cleaning, sanding, and resurfacing.	Damaged, broken, or warped interior walls or framing studs (windows, doors, or closets). Inspectors should check for wicking of water or moisture inside of drywall and insulation at a level above the interior high water mark.  All wet insulation and drywall should be removed and disposed of properly.
Doors and windows (residential only)	Depending on the flood duration, these items will require either a small amount of cleanup plus paint/stain or total replacement due to warping.	Damaged, broken, warped, or removed doors and windows

Element	Description	What to Look For
Cabinets and countertops (residential only)	Depending on the flood duration, these items will either require a small amount of cleanup, sanding, and new stain or paint for cabinets or total replacement due to warping.	Damaged, broken, warped, mold-covered, or removed cabinets and countertops.  Note: The amount of damage for cabinets should reflect the depth of flooding above the floor. If the flood depth did not reach the upper cabinets, the percent damaged should be based on the floor level cabinets only. If only the lower cabinets are damaged but the owner prefers to replace both upper and lower cabinets so that they match, that is irrelevant for the cabinet damage entered into the SDE tool.
Floor finish (residential only)	With the exception of ceramic and marble tile, almost all floor coverings and sub-flooring that get wet will need to be replaced.	Discolored, warped, cut, damaged, broken, or missing flooring.
Plumbing (residential and non-residential structures)	With the exception of broken fixtures or sections of pipe, many of these items can be flushed with disinfectant, cleaned on the outside, and used again.	Cracked, dented, misaligned, leaking, broken, or missing sections of pipe or fixtures such as toilets, sinks, tub, and showers.  Contamination of water supplies.
Electrical (residential and non-residential structures)	Depending on the depth of flooding, there may only be a need to replace fixtures such as outlets, switches, lights, or a junction/fuse box below a certain flood elevation. All electrical wiring exposed to salt water should be replaced.	Corroded, exposed, disconnected, broken, missing, or non-functioning items and fixtures.
Built-in appliances (residential only)	Depending on the depth of flooding, these may require only a cleanup with disinfectant plus a small amount of repairs or may require total replacement.	Damaged, water-logged, broken, non-functioning, or removed appliances.
HVAC (residential and non-residential structures)	Depending on the depth of flooding, this may require only a cleanup with disinfectant plus a small amount of repairs or may require total replacement.	Damaged, water-logged, broken, non-functioning, or removed heating-cooling units.

HVAC = Heating, ventilation, and air conditioning

## Guidance for Estimating Percent Damage for Residential Structures (Appendix E, Substantial Damage Estimator User Manual, FEMA)

**Basic Flooding Model Assumptions:**  
 1) Medium height freshwater flooding; limited duration. No high-velocity action; no wave action.  
 2) A 1-story house (without a basement) is used for this example house to establish the Categories of Work percentages of total costs.

		Damage Threshold			
		0-25%	25-50%	50-75%	Over 75%
Foundation	Continuous perimeter foundations, footings, and piers for internal beams and floor loads. Footing depth averages between 30 inches and 42 inches below ground level. Materials include unreinforced cast-in-place concrete, unreinforced masonry or concrete masonry units (CMUs), concrete slab on grade, or raised slab construction.	<b>Threshold Markers</b> Water level does not rise to the level of the bottom of the first floor of the structure. No scouring at the footings.	Water level rises just above first floor level.  Limited scouring at the footings. Soils are saturated.	Water level is 4-7 feet against the outside of the building.  Limited scouring at the footings. Soils are saturated and unstable	Water level is 7 feet or higher against the outside of the building.  Limited scouring at the footings. Foundation is notably cracked and/or displaced. Structure has been knocked off its foundation.
		Some undermining but no visible cracking at concrete slab.	Soils are saturated.  Undermining of the concrete slab, especially at corners - hairline cracks only.	Cracks noted on or along the foundation walls.  Significant undermining of the concrete slab - major cracking and separation of the concrete slab.	Portions of the foundation are damaged or missing  Significant undermining of the concrete slab - major cracking and separation of the concrete slab.
		Short-term inundation to limited heights. Limited scouring and erosion - low flow and low velocity floodwaters. No noticeable cracking of the masonry or displacement of the foundation walls.	Short-term inundation - Foundation is inundated with flood waters but for a limited duration. Limited scouring or undermining of the foundation or footings is found. Minor cracking from some settlement but no displacement, heaving or discontinuities of the structural support systems.	Floodwaters extend over the top of the foundation system - significant inundation for over 12 hours. Some cracking of the masonry/concrete foundation walls. Some damage to the foundation wall from debris or settlement noted.	Settlement noted at the footings, due to erosion or unstable soils. Foundation wall damage - sections of the walls are cracking, displaced, and missing, causing an inherent instability to the support for the house. Use caution when approaching or entering the house.
	Special Considerations for Coastal/High Velocity Floods	Coastal floods may show more evidence of scouring at the supports - the foundation system may be better designed to resist this scouring action. High velocity floodwaters may create erosion/scouring that the building has not been designed to resist.			



Superstructure (Wood Frame/Masonry)		0-25%	25-50%	50-75%	Over 75%
Description	Threshold Markers	Water level does not rise to the level of the bottom of the first floor of the structure.	Water level rises just above first floor level.	Water level is up to 3 feet high on the first floor level.	Water is over 3 feet high on the first floor level of the house.
		No damage to the roof framing.	Damage to the exterior walls is limited.	Some damage to exterior walls.	Significant damage to exterior walls.
	Common Damage	Minor damage to portions of the wall structure. Wall studs and sheathing suffered minor damage by contact with debris or from floodwater pressures against the structure. Minor missing or damaged sections of the roof structure. No deformation or distortion of the structural frame is evident.	Some missing sections or open damage to portions of the wall structure. Wall studs and sheathing suffered some damage by contact with debris or from floodwater pressures against the structure. Some missing or damaged sections of the roof structure. No deformation or distortion of the structural frame is evident.	Missing sections or open damage to significant portions of the wall structure. Wall studs and sheathing damaged by contact, collision, or piercing with debris or from floodwater pressures against the structure. Significant missing or damaged sections of the roof structure. Some deformation or distortion of the structural frame is evident.	Missing exterior wall(s) or open damage to large portions of the wall structure. Wall studs and sheathing damaged by contact, collision, or piercing with debris or from floodwater pressures against the structure. Large missing or damaged sections of the roof structure. Significant deformation or distortion of the structural frame is evident.
Special Considerations for Coastal/High Velocity Floods		Coastal areas have higher wind conditions requiring additional exterior wall structural panels, shear walls, and braced wall panels. Damage to these wall structural systems would indicate a higher percent of damage, because they are already designed to resist higher wind conditions.			

**Basic Flooding Model Assumptions:**

- 1) Medium height freshwater flooding; limited duration. No high-velocity action; no wave action.
- 2) A 1-story house (without a basement) is used for this example house to establish the Categories of Work percentages of total costs.

		Damage Threshold			
		0-25%	25-50%	50-75%	Over 75%
Foundation	Continuous perimeter foundations, footings, and piers for internal beams and floor loads. Footing depth averages between 30 inches and 42 inches below ground level. Materials include unreinforced cast-in-place concrete, unreinforced masonry or concrete masonry units (CMUs), concrete slab on grade, or raised slab construction.	Water level does not rise to the level of the bottom of the first floor of the structure.	Water level rises just above first floor level.	Water level is 4-7 feet against the outside of the building.	Water level is 7 feet or higher against the outside of the building.
	Threshold Markers	No scouring at the footings.	Limited scouring at the footings.	Limited scouring at the footings. Soils are saturated and unstable	Limited scouring at the footings. Foundation is notably cracked and/or displaced. Structure has been knocked off its foundation.
	Description	Some undermining but no visible cracking at concrete slab.	Soils are saturated.  Undermining of the concrete slab, especially at corners - hairline cracks only.	Cracks noted on or along the foundation walls.  Significant undermining of the concrete slab – significant cracking is visible.	Portions of the foundation are damaged or missing  Significant undermining of the concrete slab - major cracking and separation of the concrete slab.
	Common Damage	Short-term inundation to limited heights. Limited scouring and erosion - low flow and low velocity floodwaters. No noticeable cracking of the masonry or displacement of the foundation walls.	Short-term inundation - Foundation is inundated with flood waters but for a limited duration. Limited scouring or undermining of the foundation or footings is found. Minor cracking from some settlement but no displacement, heaving or discontinuities of the structural support systems.	Floodwaters extend over the top of the foundation system - significant inundation for over 12 hours. Some cracking of the masonry/concrete foundation walls. Some damage to the foundation wall from debris or settlement noted.	Settlement noted at the footings, due to erosion or unstable soils. Foundation wall damage – sections of the walls are cracking, displaced, and missing, causing an inherent instability to the support for the house. Use caution when approaching or entering the house.
	Special Considerations for Coastal/High Velocity Floods	Coastal floods may show more evidence of scouring at the supports - the foundation system may be better designed to resist this scouring action. High velocity floodwaters may create erosion/scouring that the building has not been designed to resist.			

Superstructure (Wood Frame/Masonry)		0-25%	25-50%	50-75%	Over 75%
Description	Threshold Markers	Water level does not rise to the level of the bottom of the first floor of the structure.	Water level rises just above first floor level.	Water level is up to 3 feet high on the first floor level.	Water is over 3 feet high on the first floor level of the house.
		No damage to the roof framing.	Damage to the exterior walls is limited.	Some damage to exterior walls.	Significant damage to exterior walls.
		Minor damage to portions of the wall structure. Wall studs and sheathing suffered minor damage by contact with debris or from floodwater pressures against the structure. Minor missing or damaged sections of the roof structure. No deformation or distortion of the structural frame is evident.	Some missing sections or open damage to portions of the wall structure. Wall studs and sheathing suffered some damage by contact with debris or from floodwater pressures against the structure. Some missing or damaged sections of the roof structure. No deformation or distortion of the structural frame is evident.	Missing sections or open damage to significant portions of the wall structure. Wall studs and sheathing damaged by contact, collision, or piercing with debris or from floodwater pressures against the structure. Significant missing or damaged sections of the roof structure. Some deformation or distortion of the structural frame is evident.	Missing exterior wall(s) or open damage to large portions of the wall structure. Wall studs and sheathing damaged by contact, collision, or piercing with debris or from floodwater pressures against the structure. Large missing or damaged sections of the roof structure. Significant deformation or distortion of the structural frame is evident.
Special Considerations for Coastal/High Velocity Floods		Coastal areas have higher wind conditions requiring additional exterior wall structural panels, shear walls, and braced wall panels. Damage to these wall structural systems would indicate a higher percent of damage, because they are already designed to resist higher wind conditions.			

Roof Covering		0-25%	25-50%	50-75%	Over 75%
Description	Roofing includes a lightweight composition shingle, tile roofs, metal roofs, or a built-up roof with gravel or rock cover material. Roofing does not include structural framing members such as rafters or prefabricated trusses that support the roof deck. The roof sheathing and flashing is included in this section.	Threshold Markers			
		Minor wind damage to the roof coverings.	Some damaged areas of the roof from high-winds or damage from debris.	Significant damaged areas of the roof from high winds or damage from debris.	Large damaged areas of the roof from high winds or damage from debris.
		Main surface areas are unaffected.	Some sections of the roof covering are missing or loose.	Significant sections of the roof covering are missing or loose.	Major sections of the roof covering are missing or loose.
		Flashings are intact.	Some damage to the flashings.	Damage to the flashings allows some water infiltration at joints and roof penetrations.	Damage to the flashings allows significant water infiltration at joints and roof penetrations.
		No damage to the roof sheathing.	Minimal damage to the roof sheathing.	Significant damage to the roof sheathing - some areas of the sheathing will need replacement.	Major damage to the roof sheathing - most of the roof sheathing will need replacement.
		Common Damage			
		Roof shingles or tiles mostly intact. Some minor damage to roof shingles - some torn or loose shingles in limited areas.	Some areas where the roof shingles were damaged by high winds. Several small areas of exposed roof sheathing as a result of missing/damaged shingles.	Some areas where the roof shingles were damaged by high winds. Several small areas of exposed roof sheathing as a result of missing/damaged shingles. Some damage to the roof covering and sheathing due to debris falling or penetrating the roof assembly.	Major areas of the roof where the shingles/tile are missing, allowing rainwater to freely enter the house below. Significant damage to roof covering and roof sheathing from strong winds or windborne debris penetrating the roof assembly.
	Special Considerations for Coastal/High Velocity Floods	Coastal areas have higher wind conditions requiring additional roof covering requirements. Damage to these roof coverings would indicate a higher percent of damage, because they are designed to resist higher wind conditions. Damage to the roofing is more likely during high-wind conditions due to the loss of protection from missing roof coverings and water infiltration. This will increase the percent of damage.			

Exterior Finish	Description	Threshold Markers			
		0-25%	25-50%	50-75%	Over 75%
<p>The wall covering system that covers the wall sheathing, as well as insulation and weather stripping. This includes the water resistant materials and the finish materials: Stucco, Siding (aluminum, vinyl, or wood), Masonry, Stone veneer.</p> <p>Insulation is installed at the flooring beneath the lowest floor level and throughout the walls and ceilings. Types of insulation include: fiberglass wall and ceiling insulation, blown wall and ceiling insulation, and rigid wall insulation.</p>	<p><b>Common Damage</b></p>	<p>Water staining, contamination, and damage on some of the exterior wall finishes. 'Clean and repair' process is likely. Brick and stone veneer walls, stucco walls, and 'cultured stone' walls may need some water removal techniques to allow drying of the interior materials and wall cavities. Verify adherence of the finish materials to the wall substrate. A limited amount of the siding materials may require replacement as needed. No damage or replacement of the insulation system is necessary, except where water and high moisture conditions have caused the insulation to fall loose within the crawlspace sub-flooring.</p>	<p>Damage/losses to some areas of the exterior wall surfaces, in addition to water staining and contamination. Some repairs are required at damaged locations prior to repair process. Brick and stone veneer walls, stucco walls, and 'cultured stone' walls may need some water removal techniques to allow drying of the interior materials and wall cavities. Verify adherence of the finish materials to the wall substrate. Damaged house trim work will require replacement. Water damage to the insulation in the sub-flooring above the crawlspace or basement levels. Damage to insulation is evident and insulation often has fallen loose. This insulation should be removed and replaced.</p>	<p>Water level is between 18 inches and 3 feet above the lowest floor level.</p> <p>The duration of the floodwaters is more than 12 hours.</p> <p>Damage/losses to significant sections of the exterior wall surfaces, in addition to water staining and contamination. Significant repairs are required at damaged locations prior to 'clean and repair' process. Replacement of large sections of the exterior siding is required. Brick and stone veneer walls, stucco walls, and 'cultured stone' walls may need some water removal techniques to allow drying of the interior materials and wall cavities. Verify adherence of the finish materials to the wall substrate. Water damage to the insulation in the sub-flooring above the crawlspace or basement levels. This insulation should be removed and replaced. Water saturation of wall insulation requires the removal of all of the insulation from the damaged sections of the exterior walls. Contaminants in the flood waters are cause for removal and replacement of lower sections of the saturated house trim work will require replacement, especially at door and window casings.</p>	<p>Water level is more than 3 feet above the lowest floor level.</p> <p>The duration of the floodwaters is more than 12 hours.</p> <p>Damage/losses to major sections of the exterior wall surfaces, in addition to water staining and contamination. Major repairs are required at damaged locations prior to 'clean and repair' process. Replacement of large sections of the exterior siding is required. Brick and stone veneer walls, stucco walls, and 'cultured stone' walls may need some water removal techniques to allow drying of the interior materials and wall cavities. Verify adherence of the finish materials to the wall substrate. Damaged house trim will require replacement, especially at door and window casings. Water damage to the insulation in the sub-flooring above the crawlspace or basement levels. This insulation should be removed and replaced. Water saturation of wall insulation requires the removal of all of the insulation from the damaged sections of the exterior walls. Contaminants in the flood waters are cause for removal and replacement of lower sections of the saturated house trim work will require replacement, especially at door and window casings.</p>
		<p>The salt, erosion, and winds in coastal areas will have a damaging effect on the quality of exterior wall finishes. Damage to exterior finishes are more likely during high-wind conditions due to the loss of protection from missing exterior finishes and water infiltration. Damage to the insulation is more likely during high-wind conditions due to the loss of protection from missing roof coverings and exterior finishes, and from subsequent water infiltration. This will increase the percent of damage.</p>			
	<p><b>Special Considerations for Coastal/High Velocity Floods</b></p>	<p>The salt, erosion, and winds in coastal areas will have a damaging effect on the quality of exterior wall finishes. Damage to exterior finishes are more likely during high-wind conditions due to the loss of protection from missing exterior finishes and water infiltration. Damage to the insulation is more likely during high-wind conditions due to the loss of protection from missing roof coverings and exterior finishes, and from subsequent water infiltration. This will increase the percent of damage.</p>			

Interior Finish	Description	Threshold Markers	0-25%	25-50%	50-75%	Over 75%
			Water level does not rise to the level of the first floor structure.  The duration of the floodwaters is limited - less than 12 hours.	Water level rises just above the first floor level.  The duration of the floodwaters is limited - less than 12 hours.	Water level is up to 3 feet above the first floor level.  The duration of the floodwaters is more than 12 hours.	Water is more than 3 feet above the first floor level of the house.  The duration of the floodwaters is more than 12 hours.
		Common Damage	Wicking of the water and high moisture conditions into the finished materials at the subflooring and at the bottom of the walls. Water staining and damage possible at the baseboard and the casings at the bottoms of door openings. Some adjustment/repair/ replacement may be necessary. No damage anticipated on door, cabinet, and window hardware. The baseboards and the bottom of the door casings may need to be cleaned and painted.	Water staining and damage likely at the baseboard and the casings at the bottoms of door openings. Some adjustment/repair/ replacement may be necessary. Water damage at the lowest levels of the wall assembly - lower wall and trim may need to be removed and replaced. Minor damage anticipated on door, cabinet, and window hardware. After repairs to surfaces, the lower wall finishes, baseboards, and door casings will need to be primed and repainted. The bottoms of the cabinet bases in the kitchen and bathrooms may require repainting.	Water staining and damage at the baseboards and the casings at door openings need to be replaced. Water damage at the lowest levels of the wall assembly - wall and trim, window sills and window aprons, wall paneling, wainscoting and chair rails require removal and replacement. Wall surfaces should be removed to a height of 4 feet. Some damage anticipated on door, cabinet, and window hardware. Some replacement needed. After repairs to surfaces, the entire wall finishes, baseboards, door and window casings, and window sashes will need to be primed and repainted along with the vanity cabinets in the bathrooms.	Water staining and damage at the baseboards, and running trim and casings at door and window openings need to be replaced. Water damage at all the levels of the wall assembly - wall and the wall assembly - wall and trim, window sills and window aprons, wall paneling, wainscoting, and chair rails require removal and replacement. Wall surfaces should be removed to a height of 8 feet. Significant damage anticipated on door, cabinet, and window hardware. Some replacement needed. After repairs to surfaces, the entire wall finishes, baseboards, door and window casings, and window sashes will need to be primed and repainted along with the vanity cabinets in the bathrooms. Repaint both the upper and lower kitchen cabinets, where these are paint-grade cabinets.
			Special Considerations for Coastal/High Velocity Floods	Damage to the interior finishes are more likely during high-wind conditions due to the loss of protection from missing roof coverings and exterior finishes, and from subsequent water infiltration. The salt, erosion, and winds in coastal areas will have a damaging effect on the quality of exterior hardware. This will significantly increase the percent of damage.		



Doors and Windows		0-25%	25-50%	50-75%	Over 75%
Description	This section includes all doors and windows of a structure, as well as locks, hinges, frames, and handles. Assumptions are hollow core doors with low-cost hardware for low, fair, and average quality construction, raised-panel hardwood veneer with good quality hardware for good or excellent quality construction.  (This section does not include paint or stain.)	<b>Threshold Markers</b>  Water level rises just to the floor structure of the first floor level.  The duration of the floodwaters is limited - less than 12 hours.	Water level is just above the first floor.  The duration of the floodwaters is limited - less than 12 hours.	Water rises to at least 12 inches above the first floor level.  The duration of the floodwaters is more than 12 hours.	Water rises more than 12 inches above the first floor level.  The duration of the floodwaters is more than 12 hours.
	Special Considerations for Coastal/High Velocity Floods	<b>Common Damage</b>  Bottoms of some interior doors may be deformed, delaminated, or have some swelling damage. Doors may need adjustment and/or repairs to close and latch properly. No impact on normal sill-height windows. Damage may be found at floor-level windows (hopper windows, awning windows, and floor-to-ceiling windows).	Bottoms of interior and exterior doors may be deformed, delaminated or have some swelling damage. Doors may need adjustment and/or repairs to close and latch properly. No impact on normal sill-height windows. Damage may be found at floor-level windows (hopper windows, awning windows and floor-to-ceiling windows).	Bottoms of interior and exterior doors will be deformed, delaminated, or have some swelling damage. Interior doors will likely need replacement. Exterior doors may need adjustment, repairs, or replacement. No impact on normal sill-height windows. Repairs or replacements may be needed at floor-level windows (hopper windows, awning windows, and floor-to-ceiling windows).	Bottoms of interior and exterior doors will be deformed, delaminated, or have some swelling damage. Interior and exterior doors will likely need replacement. Deformation or other damage will be found at normal sill-height windows. Replacement will be necessary at floor-level windows (hopper windows, awning windows, and floor-to-ceiling windows). Replacement may be necessary for other windows.
		Wind-driven rain in coastal areas will have a damaging effect on the quality of exterior doors and windows.			
Cabinets and Countertops		0-25%	25-50%	50-75%	Over 75%
Description	The basic cabinets for bathroom vanities and kitchens include paint-grade cabinets made of a fiberboard or plywood material. The countertop is laminated plastic or a manmade 'cultured stone' surfaced.  Paint-grade cabinets are the baseline because they can be painted to match upper wall cabinets, when they are repairable, to return the house to pre-disaster conditions.  Damaged cabinets with hardwood face-frames, doors, and drawers will require replacement based on the depth of flooding above the floor. Therefore, if the flood depth only damages the base cabinet and countertops, the percent damage will be 60% or less.	<b>Threshold Markers</b>  Water level is less than 4 inches above the finished floor level.  Base cabinets have minimal water damage. Swelling and deterioration of manufactured case goods, especially cabinet bases, sides, and drawers using engineered wood products. Bathroom vanity cabinets and kitchen base cabinets may need cleaning, sanitizing, and limited repairs. Repainting will be required to match upper cabinets in kitchen.	Water level is between 4 and 12 inches above the finished floor level.  Flood duration is short - no prolonged exposure to water or contaminants.	Water level is between 1 foot and 3 feet above the finished floor level.  Flood duration is longer than 12 hours - prolonged exposure to water and contaminants.	Water level is more than 3 feet above finished floor level.  Flood duration is longer than 12 hours - prolonged exposure to water and contaminants.
		<b>Common Damage</b>  Base cabinets have minimal water damage. Swelling and deterioration of manufactured case goods, especially cabinet bases, sides, and drawers using engineered wood products. Bathroom vanity cabinets and kitchen base cabinets may need cleaning, sanitizing, and limited repairs. Repainting will be required to match upper cabinets in kitchen.	Base cabinets of particleboard or medium-density fiberboard need to be replaced. Repaint to match upper cabinets in kitchen. Wood and plywood base cabinets may need cleaning, sanitizing, and some repairs at cabinet base. Repainting will be required to match upper cabinets in kitchen.	Water damage and exposure is prolonged - deformation, delamination, and warping of cabinet base drawers and doors. Water contains debris and contaminants. The countertops may need to be replaced.	Replace base cabinets and upper wall cabinets. Water damage and exposure is prolonged - deformation, delamination, and warping of cabinet base drawers and doors. Water contains debris and contaminants. The countertops will need to be replaced.

Floor Finish		0-25%	25-50%	50-75%	Over 75%
Description	Threshold Markers	Water level does not rise to the level of the bottom of the first floor structure.	Water level rises just to the first floor level.	Water level is above the first floor.	Water level is well above the first floor.
	Common Damage	Materials for floor finish include: carpet, hardwood, vinyl composition tile, sheet vinyl floor cover, ceramic tile, and marble. Sub-flooring is also included. Carpeting, hardwood flooring, vinyl flooring tiles, and sheet vinyl are typically replaced after water inundation. Brick, stone, and clay tile floor can be cleaned, sanitized, and reused. These types of floors may have areas where the mortar setting compound has broken loose. These tiles should be replaced. The floor sheathing is included in this Category of Work, as compared to the Superstructure Category.	Water level inundates the sub-flooring but does not rise to the finished floor materials. Minimal damage to the floor sheathing.	Water level inundates above the sub-flooring and finished floor materials. Significant damage to the floor sheathing - some areas of the sheathing will need replacement.	Water level inundates above the sub-flooring and finished floor materials. Major damage to the floor sheathing - most of the floor sheathing will need replacement.
Special Considerations for Coastal/High Velocity Floods	Description	No damage is anticipated in the floor finish system at this water level.	The sub-flooring may be damaged or delaminated by high-humidity conditions, and may need to be repaired or replaced.	The sub-flooring may be damaged or delaminated by water inundation. Floor covering will need removal, drying, sanitizing, and replacement, depending upon the type of floor covering. Carpets (with padding) should be removed and replaced. Wood floors will need to be replaced. Ceramic tiles and stone flooring may be re-used if they are still secured to the substrate. Sheet vinyl and vinyl tiles will need to be replaced to facilitate drying and repair of damage of the sub-floor.	The sub-flooring may be damaged or delaminated by water inundation. Floor covering may need removal, drying, sanitizing, and replacement, depending upon the type of floor covering. Carpets (with padding) should be removed and replaced. Wood floors will need to be replaced. Ceramic tiles and stone flooring may be re-used if they are still secured to the substrate. Sheet vinyl and vinyl tiles will need to be replaced to facilitate drying and repair of damage of the sub-floor.
		Damage to the floor finishes and floor sheathing are more likely during high-wind conditions due to the loss of protection from missing roof coverings and exterior finishes, and from subsequent water infiltration. This will significantly increase the percent of damage.			

Plumbing		0-25%	25-50%	50-75%	Over 75%
Description	Threshold Markers	Water level is less than 6 inches above the lowest floor level.	Water level is between 6 inches and 18 inches above the lowest floor level.	Water level is between 18 inches and 3 feet above the lowest floor level.	Water level is more than 3 feet above the lowest floor level.
	Common Damage	Floor drains can backflow into the house. Under floor (or under slab) plumbing systems should be purged, cleaned, and sanitized. Any materials that might contain remnants of waste materials or other contaminants in the floodwaters will require replacement.	Flood duration is short - no prolonged exposure to water or contaminants. Floor drains, shower drains, bathtubs, and toilets can back flow into the house. Septic contamination is likely. The water heater may need to be replaced.	Flood duration is longer than 12 hours - prolonged exposure to water and contaminants. Floor drains, shower drains, bathtubs, toilets, bathroom sinks, utility sinks, and toilets will backflow into the house. Septic contamination will occur. The water heater will need to be replaced.	Flood duration is longer than 12 hours - prolonged exposure to water and contaminants. All plumbing fixtures will backflow into the house. Septic contamination will occur. The water heater will need to be replaced.
Special Considerations for Coastal/High Velocity Floods		Houses in coastal areas may have additional plumbing fixtures and piping on the exterior of the house.			

Electrical	Description	0-25%			25-50%			50-75%			Over 75%		
		Threshold Markers			Common Damage Details			Common Damage Details			Common Damage Details		
100- to 200-amp electrical service providing circuit breaker panels and distribution wiring. B. Basic wiring (15/20 amp) for outlets, switches, receptacles, and lighting; 25- to 60-amp wiring systems for outlets for a washer, dryer, stove, and refrigerator.  (A minimum number of outlets and lighting fixtures, sometimes quantified by local building code, begin to increase in number and application as the quality level of the residence increases.) The basic approach listed here is for slab-on-grade or elevated houses; crawl-space and basement houses will have higher damage levels more quickly due to the main panel and horizontal wiring runs located below the lowest floor level.		Water level is less than 12 inches above the finished floor level.			Minor electrical components and limited wiring are inundated but remain below normal receptacle height.			Water level is between 12 inches and 18 inches above the finished floor level.			Water level is between 18 inches and 3 feet above the lowest floor level.		
		If the main electrical power source is located in the basement, the panel will need to be replaced. All outlets (receptacles, switches, and lights) located in the basement should be replaced. All receptacles, switches, and outlets located above the flood water high mark can be left in place and reused.			A significant number of wiring components and limited wiring are inundated, floodwaters above the normal receptacle height.			A significant number of wiring components and a significant amount of wiring is inundated - floodwaters above normal wall switch height.			Most of the wiring components and a significant amount of wiring are inundated - floodwaters above normal wall switch height.		
		Modern Romex wiring that is inundated only for short durations (without wetting the ends/joints/terminations) can be dried and reused. Older non-metallic cable (with impregnated braided sheathings) should be replaced when wetted. When chemical contaminants are suspected in the floodwaters, all inundated electrical wiring and components will require replacement.			Modern Romex wiring that is inundated only for long durations should be replaced. Older nonmetallic cable (with impregnated braided sheathings) should be replaced when wetted. When chemical contaminants are suspected in the floodwaters, all inundated electrical wiring and components will require replacement.			Modern Romex wiring that is inundated only for long durations should be replaced. Older nonmetallic cable (with impregnated braided sheathings) should be replaced when wetted. When chemical contaminants are suspected in the floodwaters, all inundated electrical wiring and components will require replacement.			Modern Romex wiring that is inundated only for long durations should be replaced. Older nonmetallic cable (with impregnated braided sheathings) should be replaced when wetted. When chemical contaminants are suspected in the floodwaters, all inundated electrical wiring and components will require replacement.		

Appliances	Description	0-25%			25-50%			50-75%			Over 75%		
		Threshold Markers			Common Damage			Common Damage			Common Damage		
Common, built-in appliances that would be included are the dishwasher, hot water tank, and some stoves.		Water level is less than 6 inches above the finished floor level.			If appliances (water heater, clothes washer/dryer) are located in the basement or under the floor spaces, these should be replaced. Appliances at or above the first-floor level should be cleaned and reconditioned, as needed. Gas-fired appliances should be checked by a service technician to verify whether the gas burners and controls were compromised. Replacement may be required.			Water level is between 6 inches and 12 inches above the finished floor level.			Water level is between 12 inches and 18 inches above the finished floor level.		
		Water level is in the floor area of the appliances but not into the equipment operating system. The appliances may be cleaned and reconditioned.			Appliances at or above the first-floor level should be cleaned and reconditioned, as needed. Gas-fired appliances should be checked by a service technician to verify whether the gas burners and controls were compromised. Replacement may be required. The clothes dryer and dishwasher systems and controls will likely be inundated and may require replacement.			Water level is in the floor area of the appliances and into the equipment operating system. Most of the appliances will need to be replaced.			Water level is in the floor area of the appliances and into the equipment operating system. All of the appliances will need to be replaced.		
		If appliances (water heater, clothes washer/dryer) are located in the basement or under the floor spaces, these should be replaced. Appliances at or above the first-floor level should be cleaned and reconditioned, as needed. Gas-fired appliances should be checked by a service technician to verify whether the gas burners and controls were compromised. Replacement may be required.			All appliances located at or above the first-floor level should be cleaned and reconditioned, as needed. Gas-fired appliances should be checked by a service technician to verify whether the gas burners and controls were compromised. Replacement may be required. The clothes dryer and dishwasher systems and controls will be inundated and need to be replaced.			All appliances located at or above the first-floor level should be cleaned and reconditioned, as needed. Gas-fired appliances should be checked by a service technician to verify whether the gas burners and controls were compromised. Replacement may be required. The clothes dryer and dishwasher systems and controls will be inundated and need to be replaced.			All appliances located at or above the first-floor level should be cleaned and reconditioned, as needed. Gas-fired appliances should be checked by a service technician to verify whether the gas burners and controls were compromised. Replacement may be required. The clothes dryer and dishwasher systems and controls will be inundated and need to be replaced.		

HVAC	0-25%	25-50%	50-75%	Over 75%	
Description	<p>The base HVAC system is a forced-air heating system (furnace) with ductwork. The air handler system is located inside the thermal barrier of the house.</p> <p>The percent damaged will be less for a boiler. A boiler system has a sealed piping system to distribute the heat while the furnace uses a duct system. Ducts with water infiltration will need to be cleaned, repaired, and re-insulated. By contrast, a boiler piping system only needs to have the distribution piping clean and re-insulated. Note: Old duct and HVAC insulation may contain asbestos - use appropriate caution and adjust the costs for removal, if found.</p> <p>A gas-fired or oil-fired furnace located in a basement or crawlspace will require replacement of the furnace assembly as soon as 12 inches of floodwaters are present. This will require an adjustment of the percent damaged to 75%, as soon as the water reaches the firebox level of this heating equipment. A central air conditioner or heat pump will have a ducted air distribution system. The outside condenser unit(s) will require reconditioning after any flooding conditions.</p>	<p>Water level is less than 6 inches above the lowest floor level.</p> <p>Water level is in the lower ducts but not into the air handler or equipment operating system.</p> <p>The condenser unit may be reconditioned if the water level is less than 6 inches from the bottom of the appliance. If the condenser unit is located below the flood level, it will need to be replaced.</p>	<p>Water level is between 6 inches and 12 inches above the finished floor level.</p> <p>Water level is into the lower ducts and the air handler, but not into the equipment operating system.</p> <p>The condenser unit may be reconditioned if the water level is up to 12 inches from the bottom of the appliance. If the condenser unit is located below the flood level, it will need to be replaced.</p>	<p>Water level is between 12 inches and 3 feet above the finished floor level.</p> <p>Water level is into the lower ducts, air handler, and the equipment operating system.</p> <p>The fuel-fired equipment (burners/controls) is inundated.</p> <p>The condenser unit needs to be replaced.</p>	<p>Water level is more than 3 feet above the lowest floor level.</p> <p>Water level is into the duct distribution system, air handler, and the equipment operating system.</p> <p>The fuel-fired equipment (burners/controls) is inundated.</p> <p>The condenser unit needs to be replaced.</p>
	Threshold Markers				
Common Damage	<p>If HVAC equipment (furnace, air handler, heat pump) are located in the basement or the under floor areas, the equipment should be reconditioned or replaced. Water-inundated duct insulation should be removed and replaced. If the duct insulation is integral to the ducts (duct board or secured interior duct liners), the ducts should be replaced. All ducts that are being reused will require cleaning.</p>	<p>If portions of the HVAC equipment (furnace, air handler, heat pump) are located in the basement or the under floor areas, the equipment should be reconditioned or replaced. Water-inundated duct insulation should be removed and replaced. If the duct insulation is integral to the ducts (duct board or secured interior duct liners), the ducts should be replaced. All ducts that are being reused will require cleaning.</p>	<p>Portions of the HVAC equipment (furnace, air handler, heat pump) should be replaced. Water-inundated duct insulation should be removed and replaced. If the duct insulation is integral to the ducts (duct board or secured interior duct liners), the ducts should be replaced. All ducts that are being reused will require cleaning.</p>	<p>All HVAC equipment (furnace, air handler, heat pump) should be replaced. Water-inundated duct insulation should be removed and replaced. If the duct insulation is integral to the ducts (duct board or secured interior duct liners), the ducts should be replaced. All ducts that are being reused will require cleaning.</p>	

## Guidance for Estimating Percent Damage for Non-Residential Structures (Appendix F, Substantial Damage Estimator User Manual, FEMA)

### Basic Flooding Model Assumptions:

- 1) Medium height freshwater flooding - limited duration. Some high-velocity action; possible wave action.  
This guidance represents a starting point for inspectors to perform assessments on non-residential buildings. Because of the wide range of structure types, this guidance should be used as a rough estimation for a typical 1-story convenience store. Any variation from that should take into consideration the potential differences in each element.
- 2) The damage evaluation guidance in this should be taken as possible or likely indicators of the respective level of damage, but is not a definite representation of damage to a structure after a flood and wind event. Not all threshold markers may need to be met to achieve the level of damage indicated.

Foundation	Damage Threshold			
	0-25%	25-50%	50-75%	Over 75%
Description	Continuous perimeter foundations, footings, and piers for internal beams and floor loads. Materials include masonry or concrete masonry units (CMUs) or piles.	Threshold Markers		
		Water level rises just above first floor level.  No scouring around foundation.  Some undermining but no visible cracking at concrete slab.	Water level is 4-7 feet against the outside of the building.  Limited scouring around foundation.  Soils are saturated.  Undermining of the foundation, especially at corners - hairline cracks only.	Water level is 7-10 feet against the outside of the building.  Limited scouring around foundation.  Foundation is notably cracked and/or displaced. Structure has been knocked off its foundation.  Portions of the foundation are damaged or missing.  Significant undermining of the foundation - major cracking and separation of the foundation.
	Special Considerations for Coastal/High Velocity Floods	Common Damage		
		Short-term inundation to limited heights. Limited scouring and erosion - low-flow and low velocity floodwaters. No noticeable cracking of the masonry or displacement of the foundation walls.	Short-term inundation - foundation is inundated with flood waters but for a limited duration. Limited scouring or undermining of the foundation or footings is found. Minor cracking from some settlement but no displacement, heaving, or discontinuities of the structural support systems.	Floodwaters extend over the top of the foundation system - significant inundation for over 12 hours. Some cracking of the masonry/concrete foundation walls. Some damage to the foundation wall from debris or settlement noted.  Settlement noted at the footings due to erosion or unstable soils. Foundation wall damage - sections of the walls cracking, displaced, and missing, causing an inherent instability to the support for the building. Use caution when approaching or entering the building.



Superstructure (Wood Frame/Masonry)		0-25%	25-50%	50-75%	Over 75%
Description	<p>The wall support systems that extend from the foundation wall to the roof structure. Superstructures include the exterior wall sheathing panels, shear panels, or braced wall members that support the roof, but does not include roof sheathing.</p> <p>Wood frame construction: Lightweight lumber or metal studs Interior wall framing (without sheathing) Typical exterior structural panel wall sheathing is plywood or hardboard</p> <p>Masonry construction: Typically concrete or CMUs, with steel reinforcement. Typical exterior covers are stucco, siding (aluminum, vinyl, or wood), and masonry veneer</p>	<p>Water level does not rise to the level of the bottom of the first floor of the structure.</p> <p>No damage to the roof framing.</p> <p>No wind damage to the superstructure.</p>	<p>Water level rises just above first floor level.</p> <p>Damage to the exterior walls is limited.</p> <p>Damage to the roof framing is limited.</p>	<p>Water level is up to 3 feet high on the first floor level.</p> <p>Some damage to exterior walls.</p> <p>Some damage to sections of the roof framing.</p>	<p>Water is over 3 feet high on the first floor level of the building.</p> <p>Significant damage to exterior walls.</p> <p>Significant damage to the main portion or multiple sections of the roof framing. Pressurization and failure of framing connections.</p>
	Threshold Markers	Common Damage			
Special Considerations for Coastal/High Velocity Floods		<p>Minor damage to portions of the wall structure. Wall studs and sheathing suffered minor damage by contact with debris or from floodwater pressures against the structure. Minor missing or damaged sections of the roof structure. No deformation or distortion of the structural frame is evident.</p>	<p>Some missing sections or open damage to portions of the wall structure. Wall studs and sheathing suffered some damage by contact with debris or from floodwater pressures against the structure. Some missing or damaged sections of the roof structure. No deformation or distortion of the structural frame is evident.</p>	<p>Missing sections or open damage to some portions of the wall structure. Wall studs and sheathing damaged by contact, collision, or piercing with debris or from floodwater pressures against the structure. Some missing or damaged sections of the roof structure. Some deformation or distortion of the structural frame is evident.</p>	<p>Missing exterior wall(s) or open damage to large portions of the wall structure. Wall studs and sheathing damaged by contact, collision, or piercing with debris or from floodwater pressures against the structure. Large missing or damaged sections of the roof structure. Significant deformation or distortion of the structural frame is evident.</p>
		Coastal areas have higher wind conditions requiring additional exterior wall structural panels, shear walls, and braced wall panels. Damage to these wall structural systems would indicate a higher percent of damage, because they are already designed to resist higher wind conditions.			



Roof Covering	Roof Damage Thresholds			
	0-25%	25-50%	50-75%	Over 75%
<p>Roofing includes a lightweight composition shingle, tile roofs, metal roofs, or a built-up roof with gravel or rock cover material. Roofing does not include structural framing members such as rafters or prefabricated trusses that support the roof deck. The roof sheathing and flashing is included in this section.</p>	Minor wind damage to the roof coverings.	Some damaged areas of the roof from high winds or damage from debris.	Significant damaged areas of the roof from high winds or damage from debris.	Large damaged areas of the roof from high winds or damage from debris.
	Main surface areas are unaffected.	Some sections of the roof covering are missing or loose.	Significant sections of the roof covering are missing or loose.	Major sections of the roof covering are missing or loose.
	Flashings are intact.	Some damage to the flashings.	Damage to the flashings allows some water infiltration at joints and roof penetrations.	Damage to the flashings allows significant water infiltration at joints and roof penetrations.
<p>Special Considerations for Coastal/High Velocity Floods</p>	Common Damage			
	Roof covering mostly intact. Some minor damage - some torn or loose parts of covering in limited areas.	Some areas where the roof was damaged by high winds. Several small areas of exposed roof sheathing as a result of missing/damaged covering.	Some areas where the roof was damaged by high winds. Several small areas of exposed roof sheathing as a result of damaged covering. Some damage to the roof covering and roof sheathing from strong winds or windborne debris penetrating the roof assembly.	Major areas of the roof where the shingles/tile are missing, allowing rainwater to freely enter the building below. Significant damage to roof covering and roof sheathing from strong winds or windborne debris penetrating the roof assembly.
<p>Special Considerations for Coastal/High Velocity Floods</p>	Coastal areas have higher wind conditions requiring additional roof covering requirements.			
	Damage to these roof coverings would indicate a higher percent of damage, because they are designed to resist higher wind conditions.			
	Damage to the roofing is more likely during high-wind conditions due to the loss of protection from missing roof coverings. This will increase the percent of damage. It is also possible that the local building code will require that the entire roof covering be removed and replaced.			

Interiors	0-25%	25-50%	50-75%	Over 75%
<p>Interiors include the partitions, interior doors, and surface finishes (for walls, floors, and ceilings).</p> <p>Materials include low-grade wood/plastic composites, soft woods, and hard woods. Finishes include paint, stain, or varnish.</p> <p>This item also covers any exterior and interior painted surfaces. This includes all interior painted surfaces, but not the building or repairs of the underlying surfaces. This also includes those exterior siding materials (and trim work) that need to be painted, but not those that have inherent coloring within the materials themselves (brick, stucco, EIFS).</p> <p><b>NOTE:</b> Non-residential structures with multiple stories will receive less damage to this element than single-story structures, as the majority of interior finish for multi-story structures will likely not be on the ground floor.</p>	<p>Water level does not rise to the level of the first floor structure.</p> <p>The duration of the floodwaters is limited - less than 12 hours.</p>	<p>Water level rises just above the first floor level.</p> <p>The duration of the floodwaters is limited - less than 12 hours.</p>	<p>Water level is up to 3 feet above the first floor level.</p> <p>The duration of the floodwaters is more than 12 hours.</p>	<p>Water is more than 3 feet above the first floor level of the building.</p> <p>The duration of the floodwaters is more than 12 hours.</p>
	<p>Wicking of the water and high moisture conditions into the finished materials at the subflooring and at the bottom of the walls. Water staining and damage possible at baseboard and the casings at the bottoms of door openings. Some adjustment/repair/replacement may be necessary. No damage anticipated on door, cabinet, and window hardware. The baseboards and the bottom of the door casings may need to be cleaned and painted.</p>	<p>Water staining and damage likely at the baseboard and the casings at the bottoms of door openings. Some adjustment/repair/replacement may be necessary. Water damage at the lowest levels of the wall assembly - lower wall and trim may need to be removed and replaced. Minor damage anticipated on door, cabinet, and window hardware. After repairs to surfaces, the lower wall finishes, baseboards, and door casings will need to be primed and repainted. The bottoms of cabinet bases in bathrooms may require repainting.</p>	<p>Water staining and damage at the baseboards and the casings at door openings need to be replaced. Water damage at the lowest levels of the wall assembly - wall and trim, window sills and window aprons, wall paneling, wainscoting, and chair rails require removal and replacement. Wall surfaces should be removed to a height of 4 feet. Some damage anticipated on door, cabinet, and window hardware. Some replacement needed. After repairs to surfaces, the entire wall finishes, baseboards, and door and window casings will need to be primed and repainted, along with the vanity cabinets in the bathrooms. Both upper and lower paint-grade cabinets should be repainted where lower cabinets were repaired or replaced.</p>	<p>Water staining and damage at the baseboards, running trim, and casings at door and window openings need to be replaced. Water damage at all the levels of the wall assembly - wall and trim, window sills and window aprons, wall paneling, wainscoting, and chair rails require removal and replacement. Wall surfaces should be removed to a height of 8 feet. Significant damage anticipated on door, cabinet, and window hardware. Some replacement needed. After repairs to surfaces, the entire wall finishes, baseboards and door and window casings, and window sashes will need to be primed and repainted along with the vanity cabinets in the bathrooms. Repaint both upper and lower cabinets, where these are paint-grade cabinets.</p>
<p>Special Considerations for Coastal/High Velocity Floods</p>	<p>Damage to the interior finishes are more likely during high-wind conditions due to the loss of protection from missing roof coverings and exterior finishes, and from subsequent water infiltration. The salt, erosion, and winds in coastal areas will have a damaging effect on the quality of exterior hardware. This will significantly increase the percent of damages.</p>			

Plumbing		0-25%	25-50%	50-75%	Over 75%	
Description	<p>The plumbing system includes the incoming water service (municipal water supply or well service), the water heater, water distribution piping, fire protection system, and the wastewater system. Wastewater will be conveyed away from the structure by either a connection to the municipal sewer system or a septic system. When floodwaters saturate the soils, septic systems may be unable to discharge their waste, causing a back-up of the septic systems. If floodwaters raise above the level of the municipal sewer manhole covers, the sewage can back-up into the building through the sewer lines. Verify the condition of the potable water supply to determine if it can provide a safe water supply.</p>	Threshold Markers	Water level is less than 6 inches above the lowest floor level.	Water level is between 18 inches and 3 feet above the lowest floor level.	Water level is more than 3 feet above the lowest floor level.	
		Common Damage	Floor drains can backflow into the building. Under floor (or under slab) plumbing systems should be purged, cleaned, and sanitized. Any materials that might contain remnants of waste materials or other contaminants in the floodwaters will require replacement.	Floor drains, shower drains, bathtubs, and toilets can backflow into the building. Septic contamination is likely. Water heaters may need to be replaced.	All plumbing fixtures will backflow into the building. Septic contamination will occur. Water heaters will need to be replaced.	
		Special Considerations	The plumbing systems in place in the buildings may vary significantly, and damage thresholds should account for the situation of the building being assessed.			
Electrical		0-25%	25-50%	50-75%	Over 75%	
Description	<p>Consists of all electrical components on the property site, such as electrical wiring, communications, conveyance, lighting, and security.</p> <p>A minimum number of outlets and lighting fixtures, sometimes quantified by local building code, begin to increase in number and application as the quality level of the structure increases. Structure type will also affect the amount of fixtures, wiring, and electrical equipment in the building, and therefore will significantly affect the percent damage to this element. For this example, equipment is assumed to be on the first floor. In multi-story buildings where equipment is on floors higher than where the flooding is occurring, these percent damage estimates would be significantly lower.</p>	Threshold Markers	Water level is less than 12 inches above the finished floor level.	Water level is between 18 inches and 3 feet above the lowest floor level.	Water level is more than 3 feet above the lowest floor level.	
		Common Damage Details	Minor electrical components and limited wiring are inundated but remain below normal receptacle height.	A significant number of wiring components and limited wiring are inundated, and floodwaters are above the normal receptacle height.	A significant number of wiring components and a significant amount of wiring is inundated - floodwaters are above normal wall switch height.	Most of the wiring components and a significant amount of wiring are inundated - floodwaters are above normal wall switch height.
		Special Considerations	The electrical system in place and its location with respect to the building may vary significantly, and damage thresholds should account for the situation of the building being assessed.			

HVAC	Description	Threshold Markers			
		0-25%	25-50%	50-75%	Over 75%
	<p>The base HVAC system is a forced-air heating system (furnace) with ductwork. The air handler system is located inside the thermal barrier of the building.</p> <p>The percent damaged will be less for a boiler. A boiler system has a sealed piping system to distribute the heat while the furnace uses a duct system. Ducts with water infiltration will need to be cleaned, repaired, and re-insulated. By contrast, a boiler piping system only needs to have the distribution piping clean and re-insulated. Note: Old duct and HVAC insulation may contain asbestos - use appropriate caution and adjust the costs for removal, if found.</p> <p>A gas-fired or oil-fired furnace located in a basement or crawlspace will require replacement of the furnace assembly as soon as 12 inches of floodwaters are present. This will require an adjustment of the percent damaged to 75%, as soon as the water reaches the firebox level of this heating equipment. A central air conditioner or heat pump will have a ducted air distribution system. The outside condenser unit(s) will require reconditioning after any flooding conditions.</p>	<p>Water level is less than 6 inches above the lowest floor level.</p> <p>Water level is in the lower ducts but not into the air handler or equipment operating system.</p> <p>The condenser unit may be reconditioned if the water level is less than 6 inches from the bottom of the appliance. If the condenser unit is located below the flood level, it needs to be replaced.</p> <p>Minor to no damage to exterior HVAC components.</p>	<p>Water level is between 6 inches and 12 inches above the finished floor level.</p> <p>Water level is into the lower ducts and the air handler, but not into the equipment operating system.</p> <p>The condenser unit may be reconditioned if the water level is up to 12 inches from the bottom of the appliance. If the condenser unit is located below the flood level, it needs to be replaced.</p> <p>Minor to some damage to exterior HVAC components.</p>	<p>Water level is between 12 inches and 3 feet above the finished floor level.</p> <p>Water level is into the lower ducts, air handler, and the equipment operating system.</p> <p>The fuel-fired equipment (burners/controls) is inundated.</p> <p>The condenser unit needs to be replaced.</p> <p>Some damage to some exterior HVAC components. Some components may have connection failures and some became windborne debris.</p>	<p>Water level is more than 3 feet above the lowest floor level.</p> <p>Water level is into the duct distribution system, air handler, and the equipment operating system.</p> <p>The fuel-fired equipment (burners/controls) is inundated.</p> <p>The condenser unit needs to be replaced.</p> <p>Significant damage to multiple exterior HVAC components. Components may have connection failures and components became windborne debris.</p>
		<p>If HVAC equipment (furnace, air handler, heat pump) are located in the basement or the under floor areas, the equipment should be reconditioned or replaced.</p> <p>Water-inundated duct insulation should be removed and replaced. If the duct insulation is integral to the ducts (duct board or secured interior duct liners), the ducts should be replaced. All ducts that are being reused will require cleaning.</p>	<p>If portions of the HVAC equipment (furnace, air handler, heat pump) are located in the basement or the under floor areas, the equipment should be reconditioned or replaced.</p> <p>Water-inundated duct insulation should be removed and replaced. If the duct insulation is integral to the ducts (duct board or secured interior duct liners), the ducts should be replaced. All ducts that are being reused will require cleaning.</p>	<p>Portions of the HVAC equipment (furnace, air handler, heat pump) should be replaced. Water-inundated duct insulation should be removed and replaced. If the duct insulation is integral to the ducts (duct board or secured interior duct liners), the ducts should be replaced. All ducts that are being reused will require cleaning.</p>	<p>All HVAC equipment (furnace, air handler, heat pump) should be replaced. Water-inundated duct insulation should be removed and replaced. If the duct insulation is integral to the ducts (duct board or secured interior duct liners), the ducts should be replaced. All ducts that are being reused will require cleaning.</p>



## **Appendix C: Substantial Damage Determination Reference Materials**

The data collected in the field during the SD inspections will be compared to the depreciated structure value provided in the Property Appraiser data to identify the structures estimated to be substantially damaged. Property owners can appeal the substantial damage determination at the time they submit a permit application. Required information includes detailed cost of repairs and optional private appraisal. A plans examiner will review the supplemental information provided by the applicant along with the substantial damage determination information to evaluate the accuracy of the initial substantial damage determination. If the plans examiner determines that the structure was not substantially damaged, the substantial damage determination will be reversed. Included herein are the guidelines for reviewing private appraisals. Plans reviewers and the Floodplain Administrator will use the reference materials in this appendix for the SD determinations.



## **Property Owner Notification Letters**

### **Residential Building**

	
December 9, 2020	
RE: Notice of Substantial Damage Determination (Residential)	
Dear Property Owner:	
<p>Pinellas County has assessed your structure located at &lt;ADDRESS&gt; for substantial damage caused by &lt;EVENT&gt; on &lt;DATE&gt;. The building is located in a mapped Special Flood Hazard Area. As required by the Pinellas County Land Development Code, Chapter 158, Floodplain Management, we have determined that the building has been substantially damaged. This determination is based on a comparison of the cost estimate of the work required to restore the building to its pre-damage condition to the market value of the building (excluding land value). When the cost to repair equals or exceeds 49 percent of the market value of the building, the work is repair of substantial damage.</p> <p>As a result of this determination, you are required to bring the structure into compliance with the flood damage-resistant provisions of the Pinellas County Floodplain Management Ordinance and/or the Florida Building Code Residential. Several issues must be addressed to achieve compliance. The most significant requirement is that the lowest floor, as defined in the regulations/code, and all electrical and mechanical equipment must be elevated above the base flood elevation (BFE).</p> <p>Pinellas County requires a building permit for any new or substantially improved building, addition, remodeling, demolition, new manufactured home setup, or work in excess of \$500.00 or that would require an inspection to ensure that all construction meets the Floodplain Management Ordinance and Florida Building Code. Please submit your permit application along with plans and specifications that incorporate compliance measures. Construction activities that are undertaken without a proper permit are violations and may result in citations, fines, the removal of the non-compliant construction, or other legal action.</p> <p>If you have a Standard Flood Insurance Policy (SFIP) it may include Increased Cost of Compliance (ICC) coverage. If your structure sustained substantial damages caused by a flood, the National Flood Insurance Program (NFIP) will pay up to \$30,000 for the cost to elevate, demolish, relocate, or floodproof (non-residential buildings only) the building with ICC coverage to help you comply with the Pinellas County Floodplain Management Ordinance and/or the Florida Building Code Residential. An ICC claim is only paid when the flood component of the damage equals or exceeds 50 percent of the market value of the building.</p>	
<p>22211 U.S. Highway 19 North, Building 1 Clearwater, FL 33765 Phone (727) 464-8900 V/TDD (727) 464-4062 <a href="http://www.pinellascounty.org">www.pinellascounty.org</a></p>	





We would be pleased to meet with you and your designated representative (architect/builder) to discuss how to bring your home into compliance.

Please visit the Pinellas County Flood Information website at [www.pinellascounty.org/flooding](http://www.pinellascounty.org/flooding) for more information or call Pinellas County Flood Information Services at (727) 464-7700 with questions.

Sincerely,

Lisa Foster, CFM  
Floodplain Administrator

## Residential Manufactured Home



December 9, 2020

RE: Notice of Substantial Damage Determination (Residential MH)

Dear Property Owner:

Pinellas County has assessed your structure located at <ADDRESS> for substantial damage caused by <EVENT> on <DATE>. The building is located in a mapped Special Flood Hazard Area. As required by our floodplain management regulation and / or the Florida Building Code, we have determined that the building has been substantially damaged. This determination is based on a comparison of the cost estimate of the work required to restore the building to its pre-damage condition to the market value of the building (excluding land value). When the cost to repair equals or exceeds 49 percent of the market value of the building, the work is repair of substantial damage.

As a result of this determination, there are several aspects that must be addressed to achieve compliance. All requirements of the Pinellas County Floodplain Management Ordinance, Appendix E of the Pinellas County Code, and the Florida Building Code Residential must be met, including but not limited to:

- All Manufactured homes that are placed, replaced, or substantially improved shall be elevated such that the bottom of the frame is at or above the elevation required, as applicable to the flood hazard area, in the Florida Building Code, Residential section R322.2 (Zone A) or section R322.3 (Zone V) and Appendix E of the Pinellas County Code.
- Utility equipment that serves manufactured homes, including electric, heating, ventilation, plumbing, and air conditioning equipment and other service facilities, shall comply with the requirements of the Florida Building Code, Residential section R322, as applicable to the flood hazard area and Appendix E of the Pinellas County Code.
- New installations of manufactured homes in coastal high hazard areas (Zone V) and Coastal A Zones shall be permitted only in existing manufactured home parks and existing manufactured home subdivisions.

You may wish to contact your insurance agent to understand how raising the lowest floor higher than the minimum required elevation can reduce NFIP flood insurance premiums.

Pinellas County requires a building permit for any new or substantially improved building, addition, remodeling, demolition, new manufactured home setup, or work in excess of \$500.00 or that would require an inspection to ensure that all construction

22211 U.S. Highway 19 North, Building 1  
Clearwater, FL 33765  
Phone (727) 464-8900  
V/TDD (727) 464-4062  
[www.pinellascounty.org](http://www.pinellascounty.org)

meets the Florida Building Code. Pinellas County Building Department does not have jurisdictional authority to issue repair permits on manufactured homes. Any site-built structures associated with the manufactured home requires building permits in compliance with the Florida Building Code and Pinellas County's Floodplain Management Ordinance.

A "qualified estimate" of your structure's market value has been estimate by a qualified local official who has sufficient experience and professional judgment on which this estimate is based. The market value of your structure is <VALUE>. This estimate is made using the best available information, which may include recent permit records, recent home sales, regional cost data, estimates of depreciation are based on knowledge of the pre-damage condition of the building, and adjustments for unique or distinctive features of individual buildings. An owner may appeal the use of the assessed value, but the burden of proof will be placed owner to submit an independent professional property appraisal that is prepared by a qualified appraiser.

We would be pleased to meet with you and your designated representative (architect/builder) to discuss how to bring your home into compliance.

Please visit the Pinellas County Flood Information website at [www.pinellascounty.org/flooding](http://www.pinellascounty.org/flooding) for more information or call Pinellas County Flood Information Services at (727) 464-7700 with questions.

Sincerely,

Lisa Foster, CFM  
Floodplain Administrator

## ACV Checklist by FloodPoint USA, LLC (2022)

### Local Official ACV Appraisal Checklist (USPAP 2020-21)

See supporting citations & explanations on the back page.

There should be only one "No" (for item 9).

#### Assignment Elements & Assignment Conditions

Y N Pg

1			-	Does the floodplain management ordinance allow a professional appraisal?
2				Is the appraisal intended use identified as something like, "to support a building permit application subject to significant improvement/significant damage determination"?
3				Is the floodplain administrator or local community identified as an intended user?
4				Is there a definition of ACV with citation to the SI/SD Desk Reference?
5				Is the appraisal effective date (date of value) correct for the assignment conditions?
6				Is the appraiser state certified/licensed and certifying conformance to USPAP?

#### Pertinent Facts (Accuracy & Consistency)

Y N Pg

7				Is the building described as it was before the start of work, or as it was before damage?
8				Are exterior & interior images consistent with the building description & quality rating?
9				Are there misrepresentations, untrue statements, or incorrect building descriptions?

#### Appraisal Process (Methodology & Reasonableness)

Y N Pg

10				Was reproduction cost estimated? (cost to build a duplicate or replica of the building)
11				Reproduction cost was developed by (a) a recognized cost estimating service, (b) analyzing multiple examples of similar construction, or (c) by other acceptable method?
12				Was the physical depreciation estimate logical? Was it developed by recognized methodology, and was it properly applied?
13				If the building has been neglected (deferred maintenance), or if there was an unusual structural issue, were cure costs addressed and added to the depreciation estimate?

#### Report Documentation (Adequacy)

Y N Pg

14				Does the report contain enough images to understand the building?
15				Is the cost estimate supported by a detailed cost report?
16				Is there adequate support for the depreciation estimate? (logical, reasonable analysis)

Appraisal Report Accepted \_\_\_\_ or Rejected \_\_\_\_

Reasoning:

2022.07.11 Ray Carroll



## ACV Appraisal Report Minimal Outline by FloodPoint USA, LLC (2022)

### ACV Appraisal Report Minimal Outline (For Detail See "The ACV Guidebook")

Reproduction cost minus Physical Depreciation equals Actual Cash Value

#### Cover Page

- Report type identification (Appraisal Report – not Restricted Report)
- Property Identification
- Appraisal effective date
- Date of inspection

#### Appraiser's Certification

#### Client

- By name

#### Other Intended Users

- Always including the local floodplain administrator

#### Intended Use Statement (should be something like)

- The intended use of the appraisal is to support a building permit application subject to significant improvement/significant damage determination.

#### Actual Cash Value Definition (from the Desk Reference at 4.5.3)

- Actual Cash Value is the cost to replace a building on the same parcel with a new building of like-kind and quality, minus depreciation due to age, use, and neglect.  
(cost to replace ≠ replacement cost – for clarification see The ACV Guidebook)

#### Appraisal Effective Date (prior to start of work or prior to damage)

#### Date of Inspection

#### Date of Report (date report was transmitted to the client)

#### Building Description

- Images depicting the building on the effective date
- Written description sufficient to develop a reproduction cost estimate
  - Date of construction
  - Discussion of building condition with list of deferred maintenance (neglect) items and their cure costs

#### Reproduction Cost Estimate

- Cost estimating service detailed output report included in appraisal report
- Any additional cost methods included with appropriate supporting documentation

**Physical Depreciation Estimate**

Actual Age

Building Physical Life Forecast

Calculate Straight-Line Physical Depreciation % (Actual Age/Physical Life Forecast)

Apply Straight-Line Depreciation % to Reproduction Cost

Add cost to cure deferred maintenance (neglect) items

**Actual Cash Value Calculation**

Reproduction cost minus Physical Depreciation equals Actual Cash Value

**Example:**

You have a 25-year old building that costs \$250,000 to reproduce

The building physical life is forecast as 150 years

25-year-old bldg. ÷ 150 building life forecast = .1667 or 16.67% depreciation

\$250,000 reproduction cost × .1667 = \$35,000 straight-line physical depreciation

But a re-roof costing \$20,000 is needed immediately

So, total physical depreciation is \$35,000 + \$20,000 = \$55,000

Reproduction Cost – Physical Depreciation = Actual Cash Value

\$250,000 - \$55,000 = \$195,000

Resources including The ACV Guidebook available at: [floodpointusa.com](http://floodpointusa.com)

**ACV Guidebook by FloodPoint USA, LLC (2022)**

The ACV Guidebook can be found on the Pinellas County SharePoint under “Floodplain Policies and Procedures”

<https://pinellasgov.sharepoint.com/:b:/r/sites/BCC/pw/Floodplain/Floodplain%20Policies%20%26%20Procedures/Substantial%20Damage%20SOG/2022.07.13%20The%20ACV%20Guidebook%20Final.pdf?csf=1&web=1&e=ej2OQw>



# Appendix D

## Flood Insurance Improvement Plan

**PINELLAS COUNTY  
PROGRAM FOR PUBLIC INFORMATION  
ANNUAL REPORT  
FOR  
FLOOD INSURANCE COVERAGE IMPROVEMENT PLAN**

Pinellas County | August, 2022



# TABLE OF CONTENTS

<b>1 INTRODUCTION AND PLANNING COMMITTEE .....</b>	<b>1-1</b>
<b>2 ASSESSMENT OF PUBLIC INFORMATION NEEDS AND TARGET AUDIENCES.....</b>	<b>ERROR!</b>
BOOKMARK NOT DEFINED.	
<b>3 MESSAGES AND OUTCOMES .....</b>	<b>ERROR! BOOKMARK NOT DEFINED.</b>
<b>4 PROGRAM FOR PUBLIC INFORMATION (PPI) PROJECTS..</b>	<b>ERROR! BOOKMARK NOT DEFINED.</b>
FRMPIWG SharePoint Toolkit .....	<b>Error! Bookmark not defined.</b>
Flood Response Plan .....	<b>Error! Bookmark not defined.</b>
<b>5 FLOOD INSURANCE IMPROVEMENT PLAN .....</b>	<b>ERROR! BOOKMARK NOT DEFINED.</b>

## LIST OF TABLES

Table 2-1	PPI Meetings.....	<b>Error! Bookmark not defined.</b>
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## APPENDICES

Appendix A – Key Messages

Appendix B – Status of PPI Projects

## 1 INTRODUCTION

This annual report presents the ongoing status of the Pinellas County Flood Insurance Coverage Improvement Plan which is developed and coordinated by the multi-jurisdictional Pinellas County Flood Risk and Mitigation Public Information Working Group (FRMPIWG) who serves as the Flood Insurance Assessment and Improvement Plan Committee. The FRMPIWG is also responsible for developing and coordinating the efforts of the multi-jurisdictional Program for Public Information Program (PPI), Floodplain Management, Flood Warning and Response, and providing input to the multi-jurisdictional Local Mitigation Strategy (LMS). The FRMPIWG includes representatives from the community's floodplain management division and the public information office as well as representatives from local insurance agencies.

The Flood Insurance Coverage Improvement Plan includes all unincorporated areas of Pinellas County and the following municipalities who are represented in the committee members:

- Town of Belleair
- City of Belleair Beach
- City of Clearwater
- City of Gulfport
- City of Indian Rocks Beach
- Town of Indian Shores
- City of Madeira Beach
- City of Oldsmar
- City of Pinellas Park
- Town of Redington Beach
- Town of Redington Shores
- City of South Pasadena
- City of St. Petersburg
- City of St. Pete Beach
- City of Tarpon Springs
- City of Treasure Island

Note: In 2021 the City of Belleair Beach joined the program, and the City of Largo withdrew.

## 2 FLOOD INSURANCE COVERAGE ASSESSMENT

### REVIEW OF FLOOD INSURANCE POLICY DATA

Flood insurance policy data generated from PIVOT, was provided to the County in December of 2021 and data from the CIS was provided by the State in July of 2022. A comparison of these data and these data to last year's annual review can be found in Table 1 and Figure 1.

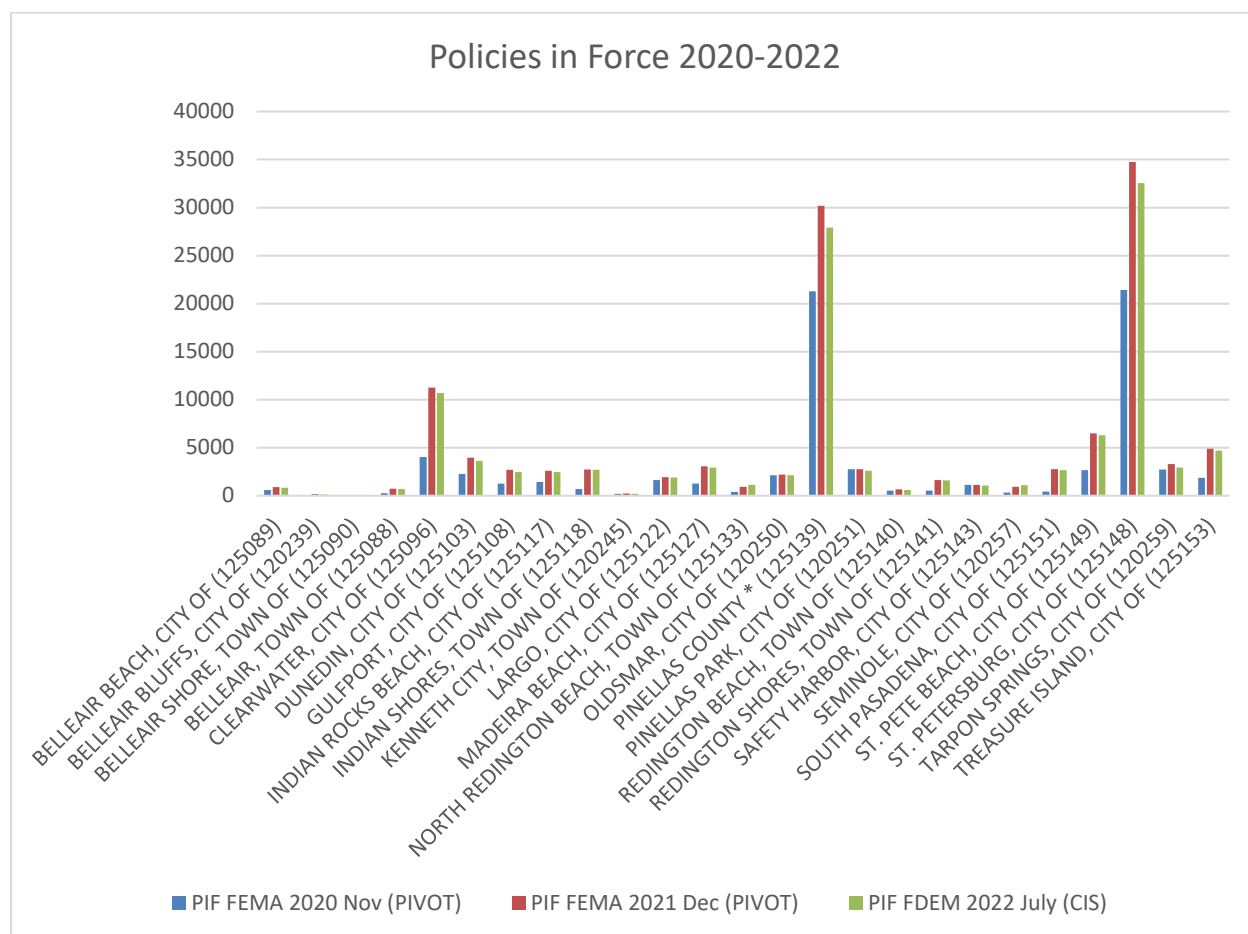
**Table 1: Pinellas County Community NFIP Policies in Force and Premiums Summary 2020-2022**

	FEMA 2020 Nov (PIVOT)	FEMA 2020 (PIVOT)	FDEM 2022 July (CIS)	FDEM 2022 July (CIS)	FEMA 2021 Dec (PIVOT)	FEMA 2021 Dec (PIVOT)
<b>Community Name (Number)</b>	<b>Count of Total Premium + Fees2</b>	<b>Sum of Total Premium + Fees</b>	<b>Active Policies</b>	<b>Total Premium + Policy Fee (Active Contracts)</b>	<b>Total Number of Policies</b>	<b>Total Premiums</b>
BELLEAIR BEACH, CITY OF (125089)	596	\$1,995,619	893	\$1,560,881	841	\$1,345,584
BELLEAIR BLUFFS, CITY OF (120239)	39	\$85,219	158	\$56,996	126	\$39,031
BELLEAIR SHORE, TOWN OF (125090)	29	\$120,824	32	\$109,047	29	\$80,676
BELLEAIR, TOWN OF (125088)	252	\$553,582	726	\$432,809	710	\$387,549
CLEARWATER, CITY OF (125096)	4030	\$10,250,948	11,267	\$8,426,272	10,680	\$7,252,485
DUNEDIN, CITY OF (125103)	2265	\$4,596,723	3,973	\$3,683,880	3,635	\$3,083,703
GULFPORT, CITY OF (125108)	1261	\$2,212,901	2,693	\$1,847,712	2,471	\$1,564,287
INDIAN ROCKS BEACH, CITY OF (125117)	1420	\$3,123,821	2,599	\$2,472,764	2,475	\$2,216,738
INDIAN SHORES, TOWN OF (125118)	700	\$2,188,055	2,742	\$1,610,169	2,687	\$1,374,573
KENNETH CITY, TOWN OF (120245)	192	\$191,649	225	\$147,271	206	\$130,062
LARGO, CITY OF (125122)	1620	\$1,667,860	1,939	\$1,362,598	1,896	\$1,338,335
MADEIRA BEACH, CITY OF (125127)	1267	\$4,167,557	3,049	\$3,483,043	2,937	\$3,142,950
NORTH REDINGTON BEACH, TOWN OF (125133)	381	\$1,169,792	942	\$884,361	1,144	\$889,380

	FEMA 2020 Nov (PIVOT)	FEMA 2020 (PIVOT)	FDEM 2022 July (CIS)	FDEM 2022 July (CIS)	FEMA 2021 Dec (PIVOT)	FEMA 2021 Dec (PIVOT)
<b>Community Name (Number)</b>	<b>Count of Total Premium + Fees2</b>	<b>Sum of Total Premium + Fees</b>	<b>Active Policies</b>	<b>Total Premium + Policy Fee (Active Contracts)</b>	<b>Total Number of Policies</b>	<b>Total Premiums</b>
OLDSMAR, CITY OF (120250)	2135	\$2,335,748	2,192	\$1,977,153	2,116	\$1,924,680
PINELLAS COUNTY * (125139)	21292	\$27,093,120	30,187	\$20,997,595	27,917	\$17,524,450
PINELLAS PARK, CITY OF (120251)	2756	\$2,477,379	2,771	\$1,999,020	2,582	\$1,749,831
REDINGTON BEACH, TOWN OF (125140)	544	\$1,607,955	677	\$1,371,739	583	\$1,223,179
REDINGTON SHORES, TOWN OF (125141)	515	\$1,425,989	1,622	\$1,196,693	1,611	\$1,126,617
SAFETY HARBOR, CITY OF (125143)	1121	\$789,776	1,132	\$630,994	1,057	\$585,077
SEMINOLE, CITY OF (120257)	347	\$448,826	918	\$452,696	1,111	\$591,036
SOUTH PASADENA, CITY OF (125151)	417	\$2,431,157	2,777	\$2,123,167	2,665	\$1,839,217
ST. PETE BEACH, CITY OF (125149)	2671	\$9,804,875	6,493	\$8,326,899	6,286	\$7,487,171
ST. PETERSBURG, CITY OF (125148)	21433	\$42,062,774	34,754	\$35,746,131	32,564	\$31,572,823
TARPON SPRINGS, CITY OF (120259)	2731	\$3,827,672	3,291	\$2,978,912	2,928	\$2,583,057
TREASURE ISLAND, CITY OF (125153)	1869	\$6,159,778	4,898	\$5,165,872	4,683	\$4,748,136

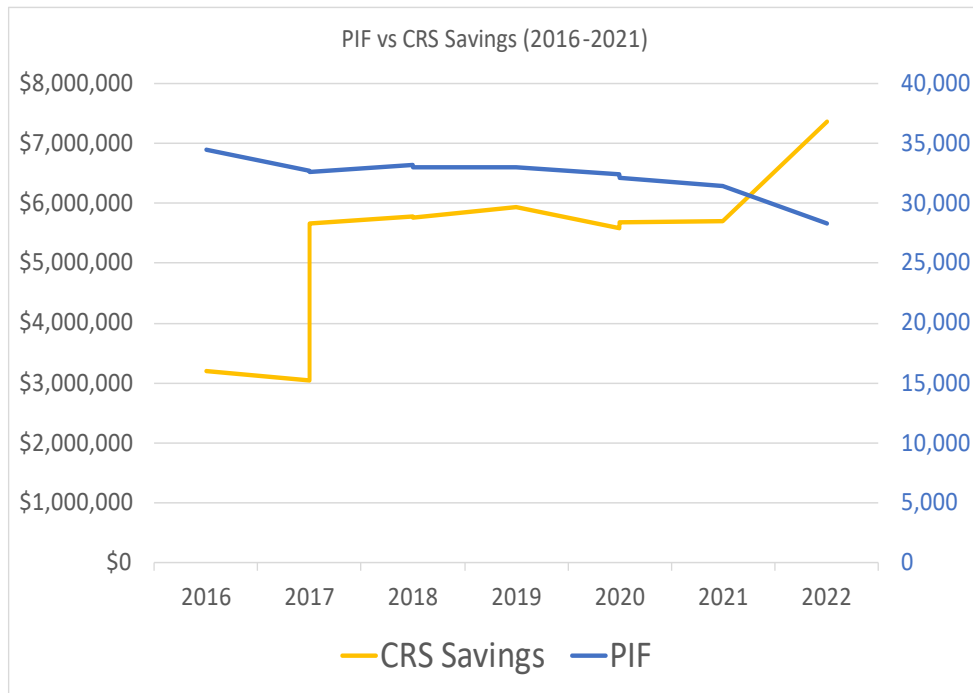


**Figure 1: Pinellas County Community NFIP Policies in Force Summary 2020-2022**

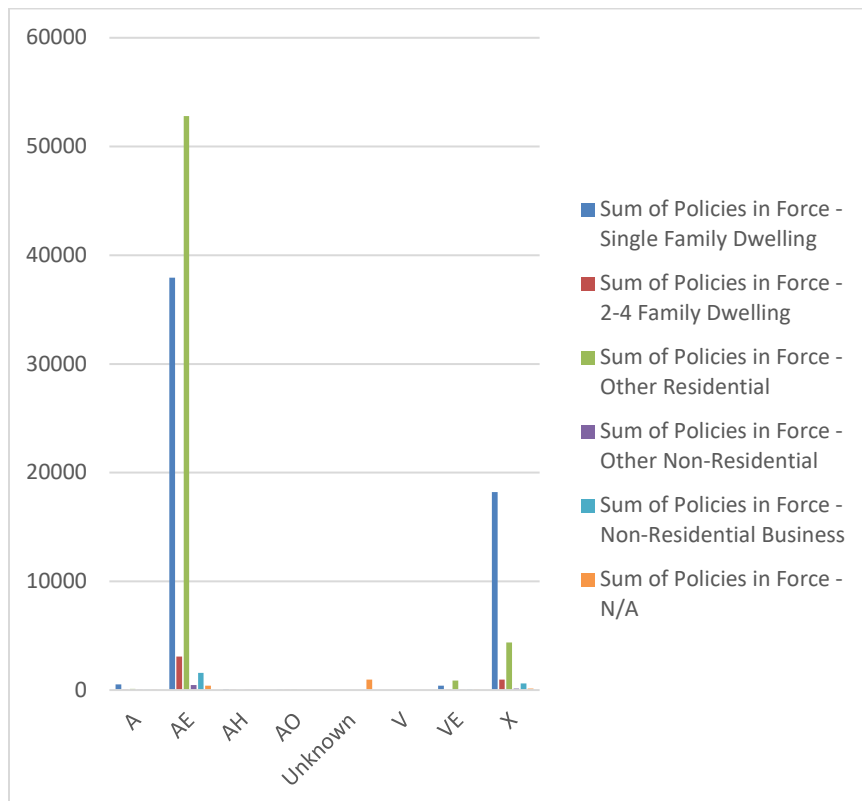


Increases in CRS discounts align with increases in CRS class (2016 and 2021), however, policy counts have declined after being relatively stable from 2016 to 2021 (Figure 1). Although the CRS discount increased in unincorporated Pinellas County from 25% to 35% in 2021, Risk Rating 2.0 was also rolled out and the FEMA FIRM was updated. The expected increase in policy count from the higher discount in 2021 did not occur. Rather, there was a decrease in policy counts, which continues to decline. It is unclear how many people who dropped NFIP policies have bought flood coverage through a private insurer, how many dropped because of increasing rates, and how many dropped because with the FIRM update many properties were no longer required to have coverage. The decreasing number of policies of concern and the County will continue to implement outreach to educate the public about the benefits of coverage following a flood. It should also be noted that based on the data provided from PIVOT in December 2021, the majority of the PIF in unincorporated were for single story structures (Table 3) and countywide most of the PIF were for residential structures in the SFHA (Figure 3 and Table 2). As such a focus on outreach to residential properties will take precedence.

**Figure 2 Unincorporated Pinellas County PIF vs CRS Discount (\$)**



**Figure 3: Countywide PIF by Flood Zone and Structure Type**



**Table 2: Countywide PIF by Flood Zone and Structure Type**

<b>Zone</b>	<b>Sum of Policies in Force - Single Family Dwelling</b>	<b>Sum of Policies in Force - 2-4 Family Dwelling</b>	<b>Sum of Policies in Force - Other Residential</b>	<b>Sum of Policies in Force - Other Non-Residential</b>	<b>Sum of Policies in Force - Non-Residential Business</b>	<b>Sum of Policies in Force - N/A</b>
A	531	36	121	7	22	1
AE	37931	3080	52810	450	1590	398
AH	86	3		4	4	
AO	2	5	6			
Unkno wn						968
V						
VE	405	57	863	16	42	55
X	18216	975	4367	149	600	141
<b>Grand Total</b>	<b>57171</b>	<b>4156</b>	<b>58167</b>	<b>626</b>	<b>2258</b>	<b>1563</b>

**Table 3 Policies in Force by Jurisdiction and Building Type**

City	Grand Total	1. One Floor	2. Two Floors	3. Three or more Floors	4. Split-Level	5. Manufactured (Mobile) Home or Travel Trailer on Foundation	6. Townhouse/Rowhouse with Three or More Floors
BELLEAIR BEACH, CITY OF (125089)	893	281	247	365			
BELLEAIR BLUFFS, CITY OF (120239)	158	28	2	128			
BELLEAIR SHORE, TOWN OF (125090)	32	10	11	11			
BELLEAIR, TOWN OF (125088)	726	122	73	531			
CLEARWATER, CITY OF (125096)	11267	2324	1392	7482	5	47	17
DUNEDIN, CITY OF (125103)	3973	1467	788	1665	5	36	12
GULFPORT, CITY OF (125108)	2693	703	315	1671	4		
INDIAN ROCKS BEACH, CITY OF (125117)	2599	507	675	1384	3		30
INDIAN SHORES, TOWN OF (125118)	2742	120	487	2134	1		
KENNETH CITY, TOWN OF (120245)	225	160	62	3			
LARGO, CITY OF (125122)	1939	1186	380	238	1	134	
MADEIRA BEACH, CITY OF (125127)	3049	729	536	1776	8		
NORTH REDINGTON BEACH, TOWN OF (125133)	942	164	206	572			
OLDSMAR, CITY OF (120250)	2192	1446	503	77	2	164	

City	Grand Total	1. One Floor	2. Two Floors	3. Three or more Floors	4. Split-Level	5. Manufactured (Mobile) Home or Travel Trailer on Foundation	6. Townhouse/Rowhouse with Three or More Floors
PINELLAS COUNTY * (125139)	30187	13486	8363	7986	67	265	20
PINELLAS PARK, CITY OF (120251)	2771	2498	210	15	5	43	
REDINGTON BEACH, TOWN OF (125140)	677	344	143	190			
REDINGTON SHORES, TOWN OF (125141)	1622	255	121	1243	3		
SAFETY HARBOR, CITY OF (125143)	1132	669	340	85		38	
SEMINOLE, CITY OF (120257)	918	170	278	463	1	6	
SOUTH PASADENA, CITY OF (125151)	2777	182	198	2390	1	6	
ST. PETE BEACH, CITY OF (125149)	6493	1496	998	3993	6		
ST. PETERSBURG, CITY OF (125148)	34754	14641	9549	10352	61	121	30
TARPON SPRINGS, CITY OF (120259)	3291	1539	1005	651	14	38	44
TREASURE ISLAND, CITY OF (125153)	4898	1018	1449	2329	7		95
Total	122950	45545	28331	47734	194	898	248

**Pinellas County,  
REPETITIVE LOSS AREA ANALYSIS  
ANNUAL REPORT,  
October 2022**



**PINELLAS COUNTY  
REPETITIVE LOSS AREA ANALYSIS  
ANNUAL REPORT**

Pinellas County | October, 2022



# TABLE OF CONTENTS

TABLE OF CONTENTS .....	i
LIST OF TABLES .....	i
ATTACHMENTS .....	i
1 INTRODUCTION .....	2
2 METHODOLOGY .....	2

## LIST OF TABLES

Table 1: Summary of RLAA Review 2022 .....	3
Table 2: Repetitive Loss Properties Review Comments.....	7
Table 3            Repetitive Loss Properties Flooding Causes .....	16

## ATTACHMENTS

Attachment 1 - Repetitive Loss Area Maps 2022

## 1 INTRODUCTION

Flood insurance claims data along with the repetitive loss data from PIVOT was provided to Pinellas County in December of 2021. Pinellas County Floodplain Management, at 14 S. Ft. Harrison Ave, reviewed the list for accuracy and for correct addresses to determine whether the properties are actually in the community's corporate limits and whether the insured buildings have been removed, retrofitted, or otherwise protected from the cause of repetitive flooding. Corrections to the list were sent to FEMA on August 10, 2022.

## 2 METHODOLOGY

The Pinellas County Repetitive Loss Area Analysis (RLAA) includes the properties on the repetitive loss list and all nearby properties that may experience similar flooding conditions. The County reviewed the previously delineated repetitive loss areas. The County also assessed the conditions surrounding newly identified repetitive loss properties and delineated the repetitive loss areas based on a compilation of the following data:

- Repetitive loss properties and data (e.g., number of losses and associated costs)
- LiDAR (elevation data)
- Conveyance system components (e.g., location and size of stormwater pipes, ditches, storage basins, and work requests)
- Known Hots Spots (e.g., conveyance system problem areas, storm high water information, and flood complaint areas)
- Floodplains (e.g., WMP studies, Vulnerability Assessment, and FIRMs)
- Storm surge areas
- Streetview

Table 1 contains a summary of the review and action items for the update of the adopted RLAA, which is Appendix I of the LMS. Table 2 Contains the corrections to the repetitive loss properties list and associated RLA information. Attachment 1 Contains maps of the repetitive loss areas.

Table 1: Summary of RLAA Review 2022

Watershed Name	RLA UID	RLA Name	2022 Comment	RLAA 2019 Description	2022 Active RLA TF	2019 Active RLA TF
BEAR CREEK	1001	Bear Creek - North	No updates to RLAA; No drainage complaints; one of 5 preFIRMs mitigated (demo/rebuild) (8/2022)	Claims associated with heavy rainfall; lowest floor well below BFE	T	T
OLDSMAR	1002	Unnamed Coastal 10	No updates to RLAA; Flooding with TS Eta; RL is assigned to Safety Harbor - wrong juris notes on RL dataset; outfall ditch on E inspected in 2021, good cond; add to CDR; requests related to tidal, ditches fill on high tide	Tidally influenced; Flooding associated with rain events in tandem with higher-than-normal tides, heavy or prolonged rainfall, and named tropical systems.	T	T
CURLEW CREEK	1003	Curlew Creek - West	This was analyzed as part of the Curlew Creek Smith Bayou WMP; Drainage requests 2019-2021; equalizer pipes installed at Hermosa; sent to CIP for project evaluation (Rhonda, status?)	Flooding from heavy rainfall associated with Hurricane Francis and unnamed storms. Houses built on-slab should be elevated. A regional CIP project have been identified.	T	T
BEAR CREEK	1004	Bear Creek - South	No updates to RLAA; no drainage complaints	Not sure why it floods? Field evaluation states that keeping the drains clear will help with flow.	T	T
SUTHERLAND BAYOU	1005	Sutherland Bayou - East	No updates to RLAA; tidally influenced/private infrastructure (if any)	Flooding from named storms and strong thunderstorms. Storm surge main threat	T	T
COASTAL ZONE NORTH	1006	Unnamed Coastal 4	No updates to RLAA; SW ops cleaned ditches and inspected assets in 2022; backflow preventor project proposed at w end Ga; part of ROW drainage master plan project? Rhonda? Add to CDR	Drainage improvements have been made however flooding caused by coastal flooding from named storms	T	T
COASTAL ZONE NORTH	1007	Sutherland Bayou - South Central	No updates to RLAA; West side near Ga-Broadus in for project design; Pipes cleaned May 2022; Split east to separate RLA deleware-missouri, no assets on Sutherland; everything sheet flows, minimal infrastructure, low-lying	Coastal/Tidally influenced; Flooding primarily associated with rain events in tandem with higher-than-normal tides and named tropical systems.	T	T
SUTHERLAND BAYOU	1008	Sutherland Bayou - North	No updates to RLAA; approx. 66% of structures are post-FIRM, only 5 structures (13%) with claims are still pre-FIRM; PC ops maintains assets last insp 8/2022	No claims for this or surrounding properties filed since 1999, which was prior to completion of a drainage project in this area.	T	F
COASTAL ZONE NORTH	1009	Unnamed Coastal 2	No updates to RLAA; ditch is tidal, inspections in 2022 - repaired curb inlet and cleaned pipes; Add DN05_6106 to CDR; Add ORDD	Low lying flat area that is located on an island. Flooding caused from strong storms such as named storms	T	T
COASTAL ZONE NORTH	1010	Unnamed Coastal 1	No updates to RLAA; Three recent drainage complaints associated with outfall pipe with blockage which was removed 2021; no claims with Eta; last claim 1999; elevation around 8 ft	Coastal/Tidally influenced; Flooding primarily associated with rain events in tandem with higher-than-normal tides and named tropical systems.	T	T
LAKE TARPON	1011	Lake Tarpon - Southeast	REMOVE from RLA - mitigated; Cleared channel north of Tarpon Lake BI; SW ops to check outfalls on South end (SN04_1740); add ORDD to inlets at ends of street	Flooding associated with rain events greater than 25 years but less than 100 years	T	T
TINNEY CREEK	1012	Tinny Creek	No updates to RLAA; Flooding with Eta resulted in SDs, but no claims; outfall crossing San martin inspected 1/2022 - good cond; ditches cleared 2019	Tidally influenced; Flooding associated with rain events in tandem with higher-than-normal tides, heavy or prolonged rainfall, and named tropical systems.	T	T
CROSS BAYOU	1013	Cross Bayou - North	Drainage eval and improvement to pond in 2021 and added to hot spots; Still a low lying tidally influenced area subject to flooding; roads within are privately owned	Over 60% of the structures in this area have an NFIP policy. No flooding claims have been filed in the area since 1985. A drainage mitigation project concluded in 2014.	T	F
CROSS BAYOU	1014	Cross Bayou - North Central	No updates to RLAA; CIP working to acquire easements for channel maintenance in area; acquisition for mit op	Tidally influenced area. Flooding associated with extreme high tides, major rain events in tandem with higher-than-normal tides and named tropical systems.	T	T
ALLENS CREEK	1015	Allen's Creek - South	Structure repair (9/2021) and pipe cleaning (7/2022); Low lying coastal area, tidally influenced outfall; all but one structure is pre-FIRM - need to mitigate structures	Tidally influenced area; Claims associated with tropical and tidal events in tandem with heavy rainfall; lowest floor estimated to be below BFE based on DTM.	T	T
CROSS BAYOU	1016	Cross Bayou - Central	No updates to RLAA; Two structures built to 74 FIRM, so those structures are impacted by as little as a 10-year event; ditch to north on regular maintenance cycle; CIP project in process on N side of Bryan Dairy; added to hot spots	Tidally influenced area. Flooding associated with extreme high tides, major rain events in tandem with higher-than-normal tides and named tropical systems.	T	T
COASTAL ZONE NORTH	1017	Unnamed Coastal 7	No updates to RLAA; Drainage improvements and assets inspections 2022 - Ditch installed at Ridge on west side of Orange, outfall from pond is on backflow project eval list	Tidally influenced; Flooding associated with rain events in tandem with higher-than-normal tides, heavy or prolonged rainfall, and named tropical systems.	T	T
SUTHERLAND BAYOU	1018	Sutherland Bayou - Central	No updates to RLAA; private, no inspections; no claims with Eta or claims since 2017	Coastal/Tidally influenced flood risk; Flooding is primarily associated with rain events in tandem with higher-than-normal tides and named tropical systems.	T	T

Watershed Name	RLA UID	RLA Name	2022 Comment	RLAA 2019 Description	2022 Active RLA TF	2019 Active RLA TF
COASTAL ZONE NORTH	1019	Unnamed Coastal 8	No updates to RLAA; Very few SW assets, inspections 2022 - good cond; very flat area, poor drainage	Tidally influenced; Flooding associated with rain events in tandem with higher-than-normal tides and named tropical systems.	T	T
COASTAL ZONE NORTH	1020	Unnamed Coastal 6	Not RLA - No Rep losses in this area	The area is flat and low lying and susceptible to tidal flooding.	F	T
SMITH BAYOU	1021	Smith Bayou - South	Not RLA - No Rep losses in this area	Flooding hasn't been reported recently. Field evaluation states drainage seems adequate and that there has been no "known flooding". Claims on older homes	F	F
LAKE SEMINOLE	1022	Lake Seminole - North	Not RLA - No Rep losses in this area	RL property mitigated, Last paid claim in 1993. No drainage issues observed. Coastal area in SFHA, no other claims in similar hazard.	F	F
MCKAY CREEK	1023	McKay Creek - North	Not RLA - Mitigation project; No claims since	Mitigated - All RL properties were acquired by the County for a mitigation project, which is currently underway.	F	F
BROOKER CREEK	1024	Brooker Creek - South	No updates to RLAA; Private property/development; Grade above BFE and is FEMA X-500; mit to elevate and floodproof	Flooding associated with prolonged rain events and named tropical systems such as Tropical Storm Debbie. Regular upkeep of private drainage system should restore positive outfall.	T	T
LAKE TARPON	1025	Lake Tarpon - North	No updates to RLAA; no drainage complaints or work requests; no assets, overland to Lake Tarpon	Adjacent to Lake Tarpon, wind events may generate some wave action	T	T
SMITH BAYOU	1026	Smith Bayou - Central	No updates to RLAA; Ditch along train cleaned out and widened to increase capacity in 2022; CIP (OCCM) removed trees and vegetation from outfall from system in 2022; B Branch project underway; area remains hot spots;	Low lying area that regularly floods; tidally influenced; Flooding associated with rain events in tandem with higher-than-normal tides, heavy or prolonged rainfall, and named tropical systems.	T	T
LAKE TARPON	1027	Lake Tarpon - West	No updates to RLAA;	Field evaluation stated the claim was questionable. No other claims in RLA or adjacent areas. Drainage System on regular maintenance. Cat 3 storm surge, non SFHA.	F	F
LAKE TARPON	1028	Lake Tarpon - Southwest	No updates to RLAA; outfall pipe inspected 2/2022 good condition; no cleanout needed	No street drainage	T	T
LAKE SEMINOLE	1029	Lake Seminole - South	Project completed? drainage from trail directed to KOA pond on east side now; new inlets/pipes in neighborhood that is RLA?? Rhonda? (Fred Roose name on the info?)	Likely cause of flooding is backed up drains. Drains regularly cleared out to prevent flooding,	T	T
JOES CREEK	1030	Joes Creek - West	No updates to RLAA;	Mitigated. Last two claims filed 2017 and 2014 did not pay. Last paid claim was 1985.	F	F
CROSS BAYOU	1031	Cross Bayou - South	REMOVE RLA; only one claim recent from Irma, likely die to blockage from debris from wind or water entering structure through damaged area from wind	Low lying flat area. Field evaluation states that Drainage should be clear HOWEVER the field evaluation states that they will check the outfalls at next visit.	F	T
COASTAL ZONE 1	1032	Coastal Zone 1	No updates to RLAA;	RL has been mitigated. Both claims on this structure were in 1979, at which time no other claims were made. This is a coastal area with some scattered claims associated with large tropical events. St*	F	F
CURLEW CREEK	1033	Curlew Creek - Central	No updates to RLAA;	All RL properties have been mitigated.	F	F
ANCLOTE RIVER	1034	Anclothe River - East	Remove - Not RLA - No other structures in area are as low as this one. BFE 18 ft (FIRM Floodway BFE); Lag for structure is 16.2 and lowest floor is 17.5 (EC); other structures grade approximately 17.7 (LiDAR) and have PIF but no claims	Claims associated with named storms Debbie and Irma; sustained rainfall summer 2015; No Claims made after channel improvements	F	T
ALLENS CREEK	1035	Allens Creek - North	Remove from RLAA; No claims since drainage improvements made in 2018; discharges to County Permitted facility which is maintained 2x/yr.	Drainage improvements made, and drains cleared out regularly; Last claim over 10 yrs. ago. Drainage projects completed in 2018.	F	F
ALLIGATOR CREEK	1036	Alligator Creek	Added due to recent drainage complaints; pond private; pipes maintained and added to hot spots; send to Sean V for site compliance inspection on pond	Drainage mitigation projects completed in this RLA. Last Claim made in 1988.	T	F



Watershed Name	RLA UID	RLA Name	2022 Comment	RLAA 2019 Description	2022 Active RLA TF	2019 Active RLA TF
JOES CREEK	1037	Joes Creek - Central	No updates to RLAA;	Mitigated. No losses on RL property since 1979. Stormwater pond created in 2007.	F	F
JOES CREEK	1038	Joes Creek - East	REMOVE RLA - mitigated; CIP and SW ops widened ditch along 62nd to increase capacity and cleaned ditch on west side of pond in southern portion of area, no claims since 80s	No drainage in community. When trying to look up precipitation data for 1988 there was no information available.	F	T
STARKEY ROAD	1039	Starkey Road	No updates to RLAA; Confirm storm drain marker installation with Watershed Section; 16 inspections and asset cleanouts since 2019; Inspection notation Aug 2022: Neighbors blow refuse into the streets and down the drains	Hot spot location, regular maintenance to clear any blockages. Field evaluation states that due to the stage sometimes the roads are difficult to drain.	T	T
COASTAL ZONE 5	1040	Coastal Zone 5 - Central	se boundary to include starboard claim; mitigated remove from listCIP Baypoint SW Park Design underway; pipe south of starboard replaced with open ditch in 2017	Field evaluation has made many improvements since the last reported claim.	F	T
COASTAL ZONE 5	1041	Coastal Zone 5 - Northeast	No updates to RLAA;	RL property has been mitigated. Claim dates range from 1979 - 1988. Area is not subject to storm surge or located within SFHA. Few scattered claims adjacent to RL property.	F	F
MCKAY CREEK	1042	McKay Creek - South	No updates to RLAA;	Mitigated. No claims since 1988.	F	F
COASTAL ZONE 5	1043	Coastal Zone 5 - South	No updates to RLAA; Grates get clogged with mulch; add inlets with grates to hot spots list; most structures are post FIRM; no mit for surge events ID'd other than pre-FIRM elevation	Last claim in 2013, low and moderate amounts of rain cause flooding	T	T
CURLEW CREEK	1044	Curlew Creek - East	No updates to RLAA;	Drainage to private pond was blacked. No recent claims since blockage cleared. - no other claims in area. Not located in storm surge zone or SFHA.	F	F
BROOKER CREEK	1045	Brooker Creek - North	No updates to RLAA; Gage SOP in place for TW; - split, when was TW Blvd project - near 3381 TARPONWOODS BLVD? Numerous drainage complaints, namely roadway flooding and road damage from flooding	Area floods with storms greater than 25 years. Resident states that home and yard floods. Low lying area. Drainage improvements can be made.	T	T
COASTAL ZONE BARRIER ISLANDS SOUTH	1046	Unnamed Coastal 9	No updates to RLAA; Only 1 preFIRM structure remain, drainage inspected 9/21/22 - no issues	Area located on coast. Field evaluation states that the lower-level elevations flood in events of high precipitation.	F	F
LONG BAYOU	1047	Long Bayou	SW project completed in 2021; Still coastal area that was impacted by TS Eta; Stormwater Operations to perform drainage inspection / evaluation	Flood prone area, flooding as a result of as little as 1 to 2 inches of rain	T	T
GULFPORT	1048	Gulfport	No updates to RLAA; No work requests, SW ops will reinspect in 22/23	Flooding from named storms such as Elena and Josephine. Last claim made in 2016	T	T
CROSS BAYOU	1049	Cross Bayou - South Central	REMOVE RLA; Only unincorporated structure with claims; Majority of area is incorporated / Stormwater Operations to perform drainage inspection / evaluation	Claims associated with tropics systems such as Debby and Colin; sub-100-yr event	F	T
SUTHERLAND BAYOU	1050	Sutherland Bayou - West	No updates to RLAA; what project was just complete> Rhonda?	Low lying area. Flooding associated with tropical systems such as Josephine	T	T
COASTAL ZONE NORTH	1051	Unnamed Coastal 5	No updates to RLAA; Outfall on Soundview cleaned ditches on 9th cleaned, swale built on 8th st between Oh and Illinois in 2022; heavy rain caused water to come out of pipe onto property at 807 OH; other assets inspected in 2021; Rhonda, any projects here?	Ditch improvement needed along 9th street	T	T
COASTAL ZONE NORTH	1053	Unnamed Coastal 3	No updates to RLAA; All outfalls inspected in 21-22; SW ops installed DBI and pipe to address roadway drainage on 9/22/22	Area on island and susceptible to flooding from coastal flooding such as storm surge from named storms and strong thunderstorms	T	T
COASTAL ZONE 5	1054	Coastal Zone 5 - Southwest	No updates to RLAA; Is there a CIP at 82nd Ter? Has this ben to SW Tech Comm? Add outfall end on either side of berm to hot spots to SSW06_4892; far south at N end of Park BI 2019 sump installed in 2019, no complaints since; debris at grates ORDD install?	Flood prone area. Field evaluation states that flooding occurs with as little as 1.5 inches of rain.	T	T
COASTAL ZONE 5	1055	Coastal Zone 5 - Northwest	SW project created berm along west side of Hamlin (2019)- will direct SW around RL; Project planned near Majestic Dr/Imp Pt to enlarge pipes; After storms 6/9/2020, road/yard flooding estimated to >7 ft; outfall tidally influence w/no relief swales out	Area adjacent to several drainage/flooding complaints, some associated with hurricane Collin; mostly within SFHA; slab on grade construction; Replacement of pipes with box culvert.	T	T



Watershed Name	RLA UID	RLA Name	2022 Comment	RLAA 2019 Description	2022 Active RLA TF	2019 Active RLA TF
ANCLOTE RIVER	1056	Anclote River - North	No updates to RLAA; Not RLA; Only one structure	Rural area with no other historical claims made in area. No other structures with potential for similar flooding, therefore, is not considered an RLA. Annual outreach will be sent to individual prope*	F	F
SUTHERLAND BAYOU	1058	Sutherland Bayou - Southeast	Remove - Not RLA - Did not flood with Eta; drainage improvements in 2016, no claims or drainage complaints since.	No claim after last work order. Last claim in 2016 after <100yr event. Property located within SFHA Prefirm, slab on grade.	F	T
COASTAL ZONE NORTH	1059	Unnamed Coastal 11	No updates to RLAA; Not RLA - No Rep losses in this area	No historical claims associated with RL. Possible 501. Add to appendix	F	F
BROOKER CREEK	1060	Brooker Creek - Central	No updates to RLAA; No updates to RLAA; Private property/development;	Post FIRM Subdivision in X Zone with private infrastructure. Claims associated with watermain break, major named storms Debbie and Irma, and prolonged heavy rainfall. Lowest living floor of structure*	T	F
COASTAL ZONE NORTH	1061	Unnamed Coastal 12	No updates to RLAA; Not RLA - No Rep losses in this area; no claims	No historical claims in area; last claim 19 years ago. Regional drainage project underway. add to appendix, exclude from report, Owner unaware of flood cause.	F	F
CURLEW CREEK	1062	Curlew Creek - South	No updates to RLAA;	No claims in area since 1998; no claims in surrounding area. Channel widening directly north of area. Not in storm surge zone or SFHA.	F	F
ANCLOTE RIVER	1065	Anclote River - Central	No updates to RLAA;	Rural area with no other historical claims made in area. Structure not in SFHA and is significantly upgrade from river. No other structures with potential for similar flooding, therefore, is not cons*	F	F
BEAR CREEK	21001	PELICAN CREEK	Add - Flooding with Eta; Low lying coastal area; Field inspection in 2021 - flume discharges into bear creek, tidally influenced and compound flooding with precip; no blockages		T	
OLDSMAR	21002	East Lake Woodlands Near Lisa In	Add - Cannot do evaluation - private development - gated		T	
COASTAL ZONE BARRIER ISLANDS SOUTH	22001	Tierra Verde	Add - was never on RL list prior - No significant drainage complaints (ponding at southern end of area reported (7/9/2022)); No claims since 2004; Only 2 claims were paid, both associated with major tropical events; Mitigation Strategy: Elevation		T	
COASTAL ZONE NORTH	22002	Point Seaside on Sutherland Bayou	Add - Stormwater Operations inspection (2022) - Tidal flooding into ditches; compound flooding with precip; ditches are maintained by county; ditches to be added to hot spot list		T	
COASTAL ZONE 5	22003	Ridgewood Riviera on Boca Ciega	Add - Stormwater Operations to perform drainage inspection and check valve feasibility evaluation; Include in Coastal Zone 5 WMP for BMP inclusion		T	
TINNEY CREEK	22004	Snug Harbor	Add - Low Lying coastal area; flooding with TS Eta; Structures with claims on north side of road rebuilt in 2005; several structures on south side of road demo' d; area is replatted and gradually annexing into St Pete for large development - Snug Harbor;		T	
COASTAL ZONE 5	22005	Coastal Zone 5 - Central East	Add - Non-coastal, depressional area; Stormwater Operations did drainage inspection6/6/22; ORDD - outreach to residents to clear back yard drain		T	

Table 2: Repetitive Loss Properties Review Comments

RL ID	RL 2022 QC Comment	RLA ID	Mitigated	2022 RLA TF	RLA 2022 Comment	RLAA Description
0118164	uninc/2019 RL	1001	NO	T	No updates to RLAA;	Claims associated with heavy rainfall; lowest floor well below BFE
136132	Wrong Juris - Uninc 125139	1002	NO	T	No updates to RLAA; Flooding with TS Eta; RL is assigned to Safety Harbor - wrong juris notes on RL dataset	Tidally influenced; Flooding associated with rain events in tandem with higher-than-normal tides, heavy or prolonged rainfall, and named tropical systems.
0124449	uninc/2019 RL	1003	NO	T	This was analyzed as part of the Curlew Creek Smith Bayou WMP; Drainage requests 2019-2021	Flooding from heavy rainfall associated with Hurricane Francis and unnamed storms. Houses built on-slab should be elevated. A regional CIP project have been identified.
0104417	uninc/2019 RL	1004	NO	T	No updates to RLAA;	Not sure why it floods? Field evaluation states that keeping the drains clear will help with flow.
0084312	uninc/2019 RL	1005	NO	T	No updates to RLAA;	Flooding from named storms and strong thunderstorms. Storm surge main threat
0105457	uninc/2019 RL	1005	NO	T	No updates to RLAA;	Flooding from named storms and strong thunderstorms. Storm surge main threat
0040595	uninc/2019 RL	1006	NO	T	No updates to RLAA;	Drainage improvements have been made however flooding caused by coastal flooding from named storms
0058898	uninc/2019 RL	1006	NO	T	No updates to RLAA;	Drainage improvements have been made however flooding caused by coastal flooding from named storms
0058899	uninc/2019 RL	1006	NO	T	No updates to RLAA;	Drainage improvements have been made however flooding caused by coastal flooding from named storms
0021810	uninc/2019 RL	1007	YES	T	No updates to RLAA;	Coastal/Tidally influenced; Flooding primarily associated with rain events in tandem with higher-than-normal tides and named tropical systems.
0044916	uninc/2019 RL	1007	NO	T	No updates to RLAA;	Coastal/Tidally influenced; Flooding primarily associated with rain events in tandem with higher-than-normal tides and named tropical systems.
0058465	uninc/2019 RL	1007	YES	T	No updates to RLAA;	Coastal/Tidally influenced; Flooding primarily associated with rain events in tandem with higher-than-normal tides and named tropical systems.
0058897	uninc/2019 RL	1007	NO	T	No updates to RLAA;	Coastal/Tidally influenced; Flooding primarily associated with rain events in tandem with higher-than-normal tides and named tropical systems.
0058901	uninc/2019 RL	1007	NO	T	No updates to RLAA;	Coastal/Tidally influenced; Flooding primarily associated with rain events in tandem with higher-than-normal tides and named tropical systems.
0080756	uninc/2019 RL	1007	YES	T	No updates to RLAA;	Coastal/Tidally influenced; Flooding primarily associated with rain events in tandem with higher-than-normal tides and named tropical systems.
0081758	uninc/2019 RL	1007	YES	T	No updates to RLAA;	Coastal/Tidally influenced; Flooding primarily associated with rain events in tandem with higher-than-normal tides and named tropical systems.
0083016	uninc/2019 RL	1007	NO	T	No updates to RLAA;	Coastal/Tidally influenced; Flooding primarily associated with rain events in tandem with higher-than-normal tides and named tropical systems.
0083096	uninc/2019 RL	1007	NO	T	No updates to RLAA;	Coastal/Tidally influenced; Flooding primarily associated with rain events in tandem with higher-than-normal tides and named tropical systems.

RL ID	RL 2022 QC Comment	RLA ID	Mitigated	2022 RLA TF	RLA 2022 Comment	RLAA Description
0085585	uninc/2019 RL	1007	YES	T	No updates to RLAA;	Coastal/Tidally influenced; Flooding primarily associated with rain events in tandem with higher-than-normal tides and named tropical systems.
0086365	uninc/2019 RL	1007	YES	T	No updates to RLAA;	Coastal/Tidally influenced; Flooding primarily associated with rain events in tandem with higher-than-normal tides and named tropical systems.
0086942	uninc/2019 RL	1007	NO	T	No updates to RLAA;	Coastal/Tidally influenced; Flooding primarily associated with rain events in tandem with higher-than-normal tides and named tropical systems.
0098248	uninc/2019 RL	1007	NO	T	No updates to RLAA;	Coastal/Tidally influenced; Flooding primarily associated with rain events in tandem with higher-than-normal tides and named tropical systems.
0099706	uninc/2019 RL	1007	NO	T	No updates to RLAA;	Coastal/Tidally influenced; Flooding primarily associated with rain events in tandem with higher-than-normal tides and named tropical systems.
0101729	uninc/2019 RL	1007	NO	T	No updates to RLAA;	Coastal/Tidally influenced; Flooding primarily associated with rain events in tandem with higher-than-normal tides and named tropical systems.
0101742	uninc/2019 RL	1007	NO	T	No updates to RLAA;	Coastal/Tidally influenced; Flooding primarily associated with rain events in tandem with higher-than-normal tides and named tropical systems.
0101982	uninc/2019 RL	1007	NO	T	No updates to RLAA;	Coastal/Tidally influenced; Flooding primarily associated with rain events in tandem with higher-than-normal tides and named tropical systems.
0103431	uninc/2019 RL	1007	NO	T	No updates to RLAA;	Coastal/Tidally influenced; Flooding primarily associated with rain events in tandem with higher-than-normal tides and named tropical systems.
0101395	uninc/2019 RL	1008	NO	T	No updates to RLAA;	No claims for this or surrounding properties filed since 1999, which was prior to completion of a drainage project in this area.
0013698	uninc/2019 RL	1009	NO	T	No updates to RLAA;	Low lying flat area that is located on an island. Flooding caused from strong storms such as named storms
0058461	uninc/2019 RL	1009	NO	T	No updates to RLAA;	Low lying flat area that is located on an island. Flooding caused from strong storms such as named storms
0058462	uninc/2019 RL	1009	NO	T	No updates to RLAA;	Low lying flat area that is located on an island. Flooding caused from strong storms such as named storms
0058463	uninc/2019 RL	1009	NO	T	No updates to RLAA;	Low lying flat area that is located on an island. Flooding caused from strong storms such as named storms
0058471	uninc/2019 RL	1009	NO	T	No updates to RLAA;	Low lying flat area that is located on an island. Flooding caused from strong storms such as named storms
0058477	uninc/2019 RL	1009	YES	T	No updates to RLAA;	Low lying flat area that is located on an island. Flooding caused from strong storms such as named storms
0086364	uninc/2019 RL	1009	YES	T	No updates to RLAA;	Low lying flat area that is located on an island. Flooding caused from strong storms such as named storms
0099703	uninc/2019 RL	1009	YES	T	No updates to RLAA;	Low lying flat area that is located on an island. Flooding caused from strong storms such as named storms
0101391	uninc/2019 RL	1009	YES	T	No updates to RLAA;	Low lying flat area that is located on an island. Flooding caused from strong storms such as named storms

RL ID	RL 2022 QC Comment	RLA ID	Mitigated	2022 RLA TF	RLA 2022 Comment	RLAA Description
0102282	uninc/2019 RL	1009	NO	T	No updates to RLAA;	Low lying flat area that is located on an island. Flooding caused from strong storms such as named storms
0105465	uninc/2019 RL	1009	NO	T	No updates to RLAA;	Low lying flat area that is located on an island. Flooding caused from strong storms such as named storms
0111791	uninc/2019 RL	1009	NO	T	No updates to RLAA;	Low lying flat area that is located on an island. Flooding caused from strong storms such as named storms
98476	Wrong Juris - Uninc	1010	NO	T	No updates to RLAA; Three recent drainage complaints associated with outfall pipe with blockage which was removed; no claims with Eta; last claim 1999; elevation around 8 ft	Coastal/Tidally influenced; Flooding primarily associated with rain events in tandem with higher-than-normal tides and named tropical systems.
0243400	uninc/2019 RL	1011	NO	T	No updates to RLAA;	Flooding associated with rain events greater than 25 years but less than 100 years
0003338	uninc/2019 RL	1012	NO	T	No updates to RLAA; Flooding with Eta resulted in SDs, but no claims	Tidally influenced; Flooding associated with rain events in tandem with higher-than-normal tides, heavy or prolonged rainfall, and named tropical systems.
0018201	Multiple Structures MHP	1012	YES	T	No updates to RLAA; Flooding with Eta resulted in SDs, but no claims	Tidally influenced; Flooding associated with rain events in tandem with higher-than-normal tides, heavy or prolonged rainfall, and named tropical systems.
0018206	Multiple Structures MHP	1012	NO	T	No updates to RLAA; Flooding with Eta resulted in SDs, but no claims	Tidally influenced; Flooding associated with rain events in tandem with higher-than-normal tides, heavy or prolonged rainfall, and named tropical systems.
296863	uninc/new	1012	NO	T	No updates to RLAA; Flooding with Eta resulted in SDs, but no claims	Tidally influenced; Flooding associated with rain events in tandem with higher-than-normal tides, heavy or prolonged rainfall, and named tropical systems.
302025	Wrong Juris - Uninc; MH Park - exact structure unknown	1012	NO	T	No updates to RLAA; Flooding with Eta resulted in SDs, but no claims	Tidally influenced; Flooding associated with rain events in tandem with higher-than-normal tides, heavy or prolonged rainfall, and named tropical systems.
303485	Wrong Juris - Uninc; MH Park - exact structure unknown	1012	NO	T	No updates to RLAA; Flooding with Eta resulted in SDs, but no claims	Tidally influenced; Flooding associated with rain events in tandem with higher-than-normal tides, heavy or prolonged rainfall, and named tropical systems.
0094606	uninc/2019 RL	1013	NO	T	Drainage eval and improvement to pond in 2021; Still a low lying tidally influenced area subject to flooding	Over 60% of the structures in this area have an NFIP policy. No flooding claims have been filed in the area since 1985. A drainage mitigation project concluded in 2014.
0058869	uninc/2019 RL	1014	NO	T	No updates to RLAA; CIP working to acquire easements for channel maintenance in area	Tidally influenced area. Flooding associated with extreme high tides, major rain events in tandem with higher-than-normal tides and named tropical systems.
81307	Wrong Juris - Uninc 125139; MH Park - exact structure unknown	1014	YES	T	No updates to RLAA; CIP working to acquire easements for channel maintenance in area	Tidally influenced area. Flooding associated with extreme high tides, major rain events in tandem with higher-than-normal tides and named tropical systems.
0199425	uninc/2019 RL	1015	NO	T	No updates to RLAA;	Tidally influenced area; Claims associated with tropical and tidal events in tandem with heavy rainfall; lowest floor estimated to be below BFE based on DTM.
213417	Wrong Juris - Uninc 125139	1016	NO	T	No updates to RLAA; Two structures built to 74 FIRM, so those structures are impacted by as little as a 10-year event	Tidally influenced area. Flooding associated with extreme high tides, major rain events in tandem with higher-than-normal tides and named tropical systems.

RL ID	RL 2022 QC Comment	RLA ID	Mitigated	2022 RLA TF	RLA 2022 Comment	RLAA Description
0242990	uninc/2019 RL	1017	NO	T	No updates to RLAA;	Tidally influenced; Flooding associated with rain events in tandem with higher-than-normal tides, heavy or prolonged rainfall, and named tropical systems.
0243439	uninc/2019 RL	1017	NO	T	No updates to RLAA;	Tidally influenced; Flooding associated with rain events in tandem with higher-than-normal tides, heavy or prolonged rainfall, and named tropical systems.
0243440	uninc/2019 RL	1017	NO	T	No updates to RLAA;	Tidally influenced; Flooding associated with rain events in tandem with higher-than-normal tides, heavy or prolonged rainfall, and named tropical systems.
0084308	uninc/2019 RL	1018	NO	T	No updates to RLAA;	Coastal/Tidally influenced flood risk; Flooding is primarily associated with rain events in tandem with higher-than-normal tides and named tropical systems.
0086360	uninc/2019 RL	1018	NO	T	No updates to RLAA;	Coastal/Tidally influenced flood risk; Flooding is primarily associated with rain events in tandem with higher-than-normal tides and named tropical systems.
0086361	uninc/2019 RL	1018	NO	T	No updates to RLAA;	Coastal/Tidally influenced flood risk; Flooding is primarily associated with rain events in tandem with higher-than-normal tides and named tropical systems.
0101646	uninc/2019 RL	1018	NO	T	No updates to RLAA;	Coastal/Tidally influenced flood risk; Flooding is primarily associated with rain events in tandem with higher-than-normal tides and named tropical systems.
0101663	uninc/2019 RL	1018	NO	T	No updates to RLAA;	Coastal/Tidally influenced flood risk; Flooding is primarily associated with rain events in tandem with higher-than-normal tides and named tropical systems.
0102280	uninc/2019 RL	1018	NO	T	No updates to RLAA;	Coastal/Tidally influenced flood risk; Flooding is primarily associated with rain events in tandem with higher-than-normal tides and named tropical systems.
0103425	uninc/2019 RL	1018	NO	T	No updates to RLAA;	Coastal/Tidally influenced flood risk; Flooding is primarily associated with rain events in tandem with higher-than-normal tides and named tropical systems.
0104879	uninc/2019 RL	1018	NO	T	No updates to RLAA;	Coastal/Tidally influenced flood risk; Flooding is primarily associated with rain events in tandem with higher-than-normal tides and named tropical systems.
0010893	Vacant / Demo'd	1019	YES	T	No updates to RLAA;	Tidally influenced; Flooding associated with rain events in tandem with higher-than-normal tides and named tropical systems.
0010933	uninc/2019 RL	1019	YES	T	No updates to RLAA;	Tidally influenced; Flooding associated with rain events in tandem with higher-than-normal tides and named tropical systems.
0013762	uninc/2019 RL	1019	YES	T	No updates to RLAA;	Tidally influenced; Flooding associated with rain events in tandem with higher-than-normal tides and named tropical systems.
0028169	uninc/2019 RL	1019	NO	T	No updates to RLAA;	Tidally influenced; Flooding associated with rain events in tandem with higher-than-normal tides and named tropical systems.
0052516	uninc/2019 RL	1019	NO	T	No updates to RLAA;	Tidally influenced; Flooding associated with rain events in tandem with higher-than-normal tides and named tropical systems.
0058478	uninc/2019 RL	1019	NO	T	No updates to RLAA;	Tidally influenced; Flooding associated with rain events in tandem with higher-than-normal tides and named tropical systems.
0058881	uninc/2019 RL	1019	YES	T	No updates to RLAA;	Tidally influenced; Flooding associated with rain events in tandem with higher-than-normal tides and named tropical systems.
0086938	uninc/2019 RL	1019	NO	T	No updates to RLAA;	Tidally influenced; Flooding associated with rain events in tandem with higher-than-normal tides and named tropical systems.



RL ID	RL 2022 QC Comment	RLA ID	Mitigated	2022 RLA TF	RLA 2022 Comment	RLAA Description
0097759	uninc/2019 RL	1019	NO	T	No updates to RLAA;	Tidally influenced; Flooding associated with rain events in tandem with higher-than-normal tides and named tropical systems.
0242993	uninc/2019 RL	1024	NO	T	No updates to RLAA;	Flooding associated with prolonged rain events and named tropical systems such as Tropical Storm Debbie. Regular upkeep of private drainage system should restore positive outfall.
167548	Wrong Juris - Uninc	1025	NO	T	No updates to RLAA;	Adjacent to Lake Tarpon, wind events may generate some wave action
0243416	uninc/2019 RL	1026	NO	T	No updates to RLAA;	Low lying area that regularly floods; tidally influenced; Flooding associated with rain events in tandem with higher-than-normal tides, heavy or prolonged rainfall, and named tropical systems.
0243618	uninc/2019 RL	1026	NO	T	No updates to RLAA;	Low lying area that regularly floods; tidally influenced; Flooding associated with rain events in tandem with higher-than-normal tides, heavy or prolonged rainfall, and named tropical systems.
0196799	uninc/2019 RL	1028	NO	T	No updates to RLAA;	No street drainage
0033922	uninc/2019 RL	1029	YES	T	No updates to RLAA;	Likely cause of flooding is backed up drains. Drains regularly cleared out to prevent flooding,
47289	Wrong Juris - Uninc	1029	NO	T	No updates to RLAA;	Likely cause of flooding is backed up drains. Drains regularly cleared out to prevent flooding,
0028164	uninc/2019 RL	1031	NO	T	No updates to RLAA;	Low lying flat area. Field evaluation states that Drainage should be clear HOWEVER the field evaluation states that they will check the outfalls at next visit.
0089874	uninc/2019 RL	1031	NO	T	No updates to RLAA;	Low lying flat area. Field evaluation states that Drainage should be clear HOWEVER the field evaluation states that they will check the outfalls at next visit.
0091842	uninc/2019 RL	1035	NO	T	No updates to RLAA;	Drainage improvements made, and drains cleared out regularly; Last claim over 10 yrs. ago. Drainage projects completed in 2018.
58788	Wrong Juris - Uninc 125139	1038	NO	T	No updates to RLAA;	No drainage in community. When trying to look up precipitation data for 1988 there was no information available.
0028080	uninc/2019 RL	1039	NO	T	No updates to RLAA; Confirm storm drain marker installation with Watershed Section; 16 inspections and asset cleanouts since 2019; Inspection notation Aug 2022: Neighbors blow refuse into the streets and down the drains	Hot spot location, regular maintenance to clear any blockages. Field evaluation states that due to the stage sometimes the roads are difficult to drain.
0187719	uninc/2019 RL	1040	NO	T	CIP Baypoint SW Park Design underway	Field evaluation has made many improvements since the last reported claim.
0277501	uninc/new	1040	NO	T	CIP Baypoint SW Park Design underway	Field evaluation has made many improvements since the last reported claim.
0164018	uninc/2019 RL	1043	NO	T	No updates to RLAA;	Last claim in 2013, low and moderate amounts of rain cause flooding
273708	uninc/new	1043	NO	T	No updates to RLAA;	Last claim in 2013, low and moderate amounts of rain cause flooding
0213406	uninc/2019 RL	1045	NO	T	No updates to RLAA;	Area floods with storms greater than 25 years. Resident states that home and yard floods. Low lying area. Drainage improvements can be made.
299957	uninc/new	1045	NO	T	No updates to RLAA;	Area floods with storms greater than 25 years. Resident states that home and yard floods. Low lying area. Drainage improvements can be made.



RL ID	RL 2022 QC Comment	RLA ID	Mitigated	2022 RLA TF	RLA 2022 Comment	RLAA Description
0027807	uninc/2019 RL	1047	NO	T	SW project completed in 2021; Still coastal area that was impacted by TS Eta; Stormwater Operations to perform drainage inspection / evaluation	Flood prone area, flooding as a result of as little as 1 to 2 inches of rain
0048979	Vacant / Demo'd	1047	YES	T	SW project completed in 2021; Still coastal area that was impacted by TS Eta; Stormwater Operations to perform drainage inspection / evaluation	Flood prone area, flooding as a result of as little as 1 to 2 inches of rain
0048980	Vacant / Demo'd	1047	YES	T	SW project completed in 2021; Still coastal area that was impacted by TS Eta; Stormwater Operations to perform drainage inspection / evaluation	Flood prone area, flooding as a result of as little as 1 to 2 inches of rain
0050294	Vacant / Demo'd	1047	YES	T	SW project completed in 2021; Still coastal area that was impacted by TS Eta; Stormwater Operations to perform drainage inspection / evaluation	Flood prone area, flooding as a result of as little as 1 to 2 inches of rain
0164201	uninc/2019 RL	1047	NO	T	SW project completed in 2021; Still coastal area that was impacted by TS Eta; Stormwater Operations to perform drainage inspection / evaluation	Flood prone area, flooding as a result of as little as 1 to 2 inches of rain
74107	Wrong Juris - Uninc 125139	1048	NO	T	No updates to RLAA;	Flooding from named storms such as Elena and Josephine. Last claim made in 2016
0213370	uninc/2019 RL	1049	NO	T	Re-evaluate - Only unincorporated structure with claims; Majority of area is incorporated / Stormwater Operations to perform drainage inspection / evaluation	Claims associated with tropical systems such as Debby and Colin; sub-100-yr event
0197799	uninc/2019 RL	1050	NO	T	No updates to RLAA;	Low lying area. Flooding associated with tropical systems such as Josephine
0074999	uninc/2019 RL	1051	NO	T	No updates to RLAA;	Ditch improvement needed along 9th street
0104869	uninc/2019 RL	1053	NO	T	No updates to RLAA;	Area on island and susceptible to flooding from coastal flooding such as storm surge from named storms and strong thunderstorms
0010942	uninc/2019 RL	1054	NO	T	No updates to RLAA;	Flood prone area. Field evaluation states that flooding occurs with as little as 1.5 inches of rain.
0123920	uninc/2019 RL	1054	NO	T	No updates to RLAA;	Flood prone area. Field evaluation states that flooding occurs with as little as 1.5 inches of rain.
0277449	uninc/new	1055	NO	T	Stormwater Operations to review; SW project completed?	Area adjacent to several drainage/flooding complaints, some associated with hurricane Collin; mostly within SFHA; slab on grade construction; Replacement of pipes with box culvert.
0272788	uninc/2019 RL	1060	NO	T	No updates to RLAA;	Post FIRM Subdivision in X Zone with private infrastructure. Claims associated with watermain break, major named storms Debbie and Irma, and prolonged heavy rainfall. Lowest living floor of structure*

RL ID	RL 2022 QC Comment	RLA ID	Mitigated	2022 RLA TF	RLA 2022 Comment	RLAA Description
302893	uninc/new	21001	NO	T	Add - Flooding with Eta; Low lying coastal area; Field inspection in 2021; Confirm storm drain markers were placed	
303030	uninc/new	21001	NO	T	Add - Flooding with Eta; Low lying coastal area; Field inspection in 2021; Confirm storm drain markers were placed	
304104	uninc/new	21001	NO	T	Add - Flooding with Eta; Low lying coastal area; Field inspection in 2021; Confirm storm drain markers were placed	
306709	uninc/new	21001	NO	T	Add - Flooding with Eta; Low lying coastal area; Field inspection in 2021; Confirm storm drain markers were placed	
86907	uninc/new	21001	NO	T	Add - Flooding with Eta; Low lying coastal area; Field inspection in 2021; Confirm storm drain markers were placed	
263603	uninc/new	21002	NO	T	Add - Stormwater Operations to perform drainage inspection / evaluation	
	Wrong Juris - Uninc	21002	NO	T	Add - Stormwater Operations to perform drainage inspection / evaluation	
295393	uninc/new	22001	NO	T	Add - Stormwater Operations to perform drainage inspection / evaluation	
300831	uninc/new	22002	NO	T	Add - Stormwater Operations to perform drainage inspection and check valve feasibility evaluation	
302843	uninc/new	22003	NO	T	Add - Stormwater Operations to perform drainage inspection and check valve feasibility evaluation; Include in Coastal Zone 5 WMP for BMP inclusion	
302851	Vacant / Demo'd	22004	NO	T	Add - Low Lying coastal area; flooding with TS Eta; Structures with claims on north side of road rebuilt in 2005; several structures on south side of road demo' d; area is replatted and gradually annexing into St Pete for large development - Snug Harbor.	
302967	Wrong Juris - Uninc 125139	22005	NO	T	Add - Non-coastal, depressional area; Stormwater Operations to perform drainage inspection / evaluation	

RL ID	RL 2022 QC Comment	RLA ID	Mitigated	2022 RLA TF	RLA 2022 Comment	RLAA Description
0002621	Vacant / Demo'd	1023	YES	F	Not RLA - Mitigation project; No claims since	Mitigated - All RL properties were acquired by the County for a mitigation project, which is currently underway.
0003159	Vacant / Demo'd	1023	YES	F	Not RLA - Mitigation project; No claims since	Mitigated - All RL properties were acquired by the County for a mitigation project, which is currently underway.
0009452	Vacant / Demo'd	1023	YES	F	Not RLA - Mitigation project; No claims since	Mitigated - All RL properties were acquired by the County for a mitigation project, which is currently underway.
0010890	Vacant / Demo'd	1023	YES	F	Not RLA - Mitigation project; No claims since	Mitigated - All RL properties were acquired by the County for a mitigation project, which is currently underway.
0010891	Vacant / Demo'd	1023	YES	F	Not RLA - Mitigation project; No claims since	Mitigated - All RL properties were acquired by the County for a mitigation project, which is currently underway.
0010936	Vacant / Demo'd	1023	YES	F	Not RLA - Mitigation project; No claims since	Mitigated - All RL properties were acquired by the County for a mitigation project, which is currently underway.
0059208	Vacant / Demo'd	1023	YES	F	Not RLA - Mitigation project; No claims since	Mitigated - All RL properties were acquired by the County for a mitigation project, which is currently underway.
0058693	uninc/2019 RL	1030	YES	F	No updates to RLAA;	Mitigated. Last two claims filed 2017 and 2014 did not pay. Last paid claim was 1985.
43311	Wrong Juris - Uninc / Address typo: 803 CAMELLIA DR	1032	YES	F	No updates to RLAA;	RL has been mitigated. Both claims on this structure were in 1979, at which time no other claims were made. This is a coastal area with some scattered claims associated with large tropical events. St*
0027817	uninc/2019 RL	1033	YES	F	No updates to RLAA;	All RL properties have been mitigated.
0028174	uninc/2019 RL	1033	YES	F	No updates to RLAA;	All RL properties have been mitigated.
0037996	uninc/2019 RL	1033	YES	F	No updates to RLAA;	All RL properties have been mitigated.
0038747	uninc/2019 RL	1033	YES	F	No updates to RLAA;	All RL properties have been mitigated.
0039201	uninc/2019 RL	1033	YES	F	No updates to RLAA;	All RL properties have been mitigated.
0009449	uninc/2019 RL	1036	YES	F	No updates to RLAA;	Drainage mitigation projects completed in this RLA. Last Claim made in 1988.
0044072	uninc/2019 RL	1041	YES	F	No updates to RLAA;	RL property has been mitigated. Claim dates range from 1979 - 1988. Area is not subject to storm surge or located within SFHA. Few scattered claims adjacent to RL property.
0038647	uninc/2019 RL	1042	YES	F	No updates to RLAA;	Mitigated. No claims since 1988.
0213746	No RLA: Mitigated; original structure was in depressional area, no other structures susceptible to similar condition	999999	YES	F	No updates to RLAA;	No RLA: Mitigated; original structure was in depressional area, no other structures susceptible to similar condition
0231455	uninc/2019 RL	1027	NO	F	No updates to RLAA;	Field evaluation stated the claim was questionable. No other claims in RLA or adjacent areas. Drainage System on regular maintenance. Cat 3 storm surge, non SFHA.
0242992	uninc/2019 RL	1034	NO	F	Remove - Not RLA - No other structures in area are as low as this one. BFE 18 ft (FIRM Floodway BFE); Lag for structure is 16.2 and lowest floor is 17.5 (EC); other structures grade approximately 17.7 (LiDAR) and have PIF but no claims	Claims associated with named storms Debbie and Irma; sustained rainfall summer 2015; No Claims made after channel improvements

RL ID	RL 2022 QC Comment	RLA ID	Mitigated	2022 RLA TF	RLA 2022 Comment	RLAA Description
3065	Wrong Juris - Uninc 125139	1036	NO	F	No updates to RLAA;	Drainage mitigation projects completed in this RLA. Last Claim made in 1988.
0237563	uninc/2019 RL	1044	NO	F	No updates to RLAA;	Drainage to private pond was blacked. No recent claims since blockage cleared. - no other claims in area. Not located in storm surge zone or SFHA.
0001985	uninc/2019 RL	1046	NO	F	No updates to RLAA;	Area located on coast. Field evaluation states that the lower-level elevations flood in events of high precipitation.
0059171	uninc/2019 RL	1046	YES	F	No updates to RLAA;	Mitigated structure: Area located on coast. Field evaluation states that the lower-level elevations flood in events of high precipitation.
0253555	uninc/2019 RL	1056	NO	F	No updates to RLAA; Not RLA; Only one structure	Rural area with no other historical claims made in area. No other structures with potential for similar flooding, therefore, is not considered an RLA. Annual outreach will be sent to individual prope*
0250082	uninc/2019 RL	1058	NO	F	Remove - Not RLA - Did not flood with Eta; drainage improvements in 2016, no claims since.	No claim after last work order. Last claim in 2016 after <100yr event. Property located within SFHA Prefirm, slab on grade.
0093481	uninc/2019 RL	1062	NO	F	No updates to RLAA;	No claims in area since 1998; no claims in surrounding area. Channel widening directly north of area. Not in storm surge zone or SFHA.
0188339	uninc/2019 RL	1065	NO	F	No updates to RLAA;	Rural area with no other historical claims made in area. Structure not in SFHA and is significantly upgrade from river. No other structures with potential for similar flooding, therefore, is not cons*
302939	New on list; No RLA: Only claims 82 and 83; only two other properties with claims in vicinity, both same dates (82, 83)	999999	NO	F	No updates to RLAA;	New on list; No RLA: Only claims 82 and 83; only two other properties with claims in vicinity, both same dates (82, 83)
303204	New on list; No RLA: Only claims were in 79 and 88; no other claims in area	999999	NO	F	No updates to RLAA;	New on list; No RLA: Only claims were in 79 and 88; no other claims in area

Table 3 Repetitive Loss Properties Flooding Causes

PC_UID	RL Number	Community	Claim Date	Total_Prem	Weather_Review_2022	Weather_Synopsis
502464	3065	125139	1979-05-08	\$0	Storm of the Century' May 1979 Countywide May rainfall total 13.58 inches; The flooding in Pinellas County was the worst since June 1974 when storms dumped 19 inches of rain and caused damage that ran into the millions of dollars.	Storm of the Century 1980
502769	9449	125139	1979-05-08	\$6,264	Storm of the Century' May 1979 Countywide May rainfall total 13.58 inches; The flooding in Pinellas County was the worst since June 1974 when storms dumped 19 inches of rain and caused damage that ran into the millions of dollars.	Storm of the Century 1980
504016	27807	125139	1979-05-08	\$2,034	Storm of the Century' May 1979 Countywide May rainfall total 13.58 inches; The flooding in Pinellas County was the worst since June 1974 when storms dumped 19 inches of rain and caused damage that ran into the millions of dollars.	Storm of the Century 1980
504059	27817	125139	1979-05-08	\$12,729	Storm of the Century' May 1979 Countywide May rainfall total 13.58 inches; The flooding in Pinellas County was the worst since June 1974 when storms dumped 19 inches of rain and caused damage that ran into the millions of dollars.	Storm of the Century 1980
504383	28080	125139	1979-05-08	\$1,426	Storm of the Century' May 1979 Countywide May rainfall total 13.58 inches; The flooding in Pinellas County was the worst since June 1974 when storms dumped 19 inches of rain and caused damage that ran into the millions of dollars.	Storm of the Century 1980
504989	58693	125139	1979-05-08	\$1,584	Storm of the Century' May 1979 Countywide May rainfall total 13.58 inches; The flooding in Pinellas County was the worst since June 1974 when storms dumped 19 inches of rain and caused damage that ran into the millions of dollars.	Storm of the Century 1980
505061	28164	125139	1979-05-08	\$190	Storm of the Century' May 1979 Countywide May rainfall total 13.58 inches; The flooding in Pinellas County was the worst since June 1974 when storms dumped 19 inches of rain and caused damage that ran into the millions of dollars.	Storm of the Century 1980
505144	28174	125139	1979-05-08	\$10,233	Storm of the Century' May 1979 Countywide May rainfall total 13.58 inches; The flooding in Pinellas County was the worst since June 1974 when storms dumped 19 inches of rain and caused damage that ran into the millions of dollars.	Storm of the Century 1980
505861	33922	125139	1979-05-08	\$2,206	Storm of the Century' May 1979 Countywide May rainfall total 13.58 inches; The flooding in Pinellas County was the worst since June 1974 when storms dumped 19 inches of rain and caused damage that ran into the millions of dollars.	Storm of the Century 1980
506000	47289	125139	1979-05-08	\$6,703	Storm of the Century' May 1979 Countywide May rainfall total 13.58 inches; The flooding in Pinellas County was the worst since June 1974 when storms dumped 19 inches of rain and caused damage that ran into the millions of dollars.	Storm of the Century 1980
506317	37996	125139	1979-05-08	\$4,303	Storm of the Century' May 1979 Countywide May rainfall total 13.58 inches; The flooding in Pinellas County was the worst since June 1974 when storms dumped 19 inches of rain and caused damage that ran into the millions of dollars.	Storm of the Century 1980

PC_UID	RL Number	Community	Claim Date	Total_Prem	Weather_Review_2022	Weather_Synopsis
506425	38747	125139	1979-05-08	\$24,107	Storm of the Century' May 1979 Countywide May rainfall total 13.58 inches; The flooding in Pinellas County was the worst since June 1974 when storms dumped 19 inches of rain and caused damage that ran into the millions of dollars.	Storm of the Century 1980
506499	39201	125139	1979-05-08	\$10,100	Storm of the Century' May 1979 Countywide May rainfall total 13.58 inches; The flooding in Pinellas County was the worst since June 1974 when storms dumped 19 inches of rain and caused damage that ran into the millions of dollars.	Storm of the Century 1980
506318	37996	125139	1979-09-22	\$9,083	Severe Thunderstorms September 1979 1.90 inches of rain reported in St. Petersburg; 2.00 inches ofrain reported in Tarpon Springs; Winds up to 36 miles per hour. (Possible remnants of Hurricane Henri)	Severe Thunderstorms / Remnants of Hurricane Henri
507134	303204	125139	1979-09-22	\$1,946	Severe Thunderstorms September 1979 1.90 inches of rain reported in St. Petersburg; 2.00 inches ofrain reported in Tarpon Springs; Winds up to 36 miles per hour. (Possible remnants of Hurricane Henri)	Severe Thunderstorms / Remnants of Hurricane Henri
504060	27817	125139	1979-09-23	\$3,801	Severe Thunderstorms September 1979 1.90 inches of rain reported in St. Petersburg; 2.00 inches ofrain reported in Tarpon Springs; Winds up to 36 miles per hour.	Severe Thunderstorms / Remnants of Hurricane Henri
505145	28174	125139	1979-09-23	\$12,349	Severe Thunderstorms September 1979 1.90 inches of rain reported in St. Petersburg; 2.00 inches ofrain reported in Tarpon Springs; Winds up to 36 miles per hour.	Severe Thunderstorms / Remnants of Hurricane Henri
506500	39201	125139	1979-09-23	\$14,776	Severe Thunderstorms September 1979 1.90 inches of rain reported in St. Petersburg; 2.00 inches ofrain reported in Tarpon Springs; Winds up to 36 miles per hour.	Severe Thunderstorms / Remnants of Hurricane Henri
507299	44072	125139	1979-09-23	\$0	Severe Thunderstorms September 1979 1.90 inches of rain reported in St. Petersburg; 2.00 inches ofrain reported in Tarpon Springs; Winds up to 36 miles per hour.	Severe Thunderstorms / Remnants of Hurricane Henri
506426	38747	125139	1979-09-24	\$24,485	Severe Thunderstorms September 1979 1.90 inches of rain reported in St. Petersburg; 2.00 inches ofrain reported in Tarpon Springs; Winds up to 36 miles per hour.	Severe Thunderstorms / Remnants of Hurricane Henri
505062	28164	125139	1981-02-08	\$791	Heavy Rainfall Winter 1980-81 2.40 inches of rain reported in St. Petersburg; 2.04 inches of rain reported in Tarpon Springs	Storm
505063	28164	125139	1981-08-20	\$1,723	Severe Thunderstorms Summer 1981 3.43 inches of rain reported in St. Petersburg; .25 inches of rain reported in Tarpon Springs (Hurricane Dennis Rain Bands)	Hurricane Dennis 1981 Rain Bands
505064	28164	125139	1982-03-05	\$0	Rainfall Winter 1981-82 Claim not paid; .5 inches of rain reported in St. Petersburg.	no storms documented
505065	28164	125139	1982-05-29	\$1,108	Servere Thunderstorms Spring 1982 2.00 inches of rain reported in St. Petesburg; 1.10 inches of rain reported in Tarpon Springs	Severe Thunderstorms
505862	33922	125139	1982-05-30	\$4,496	Servere Thunderstorms Spring 1982 2.00 inches of rain reported in St. Petesburg; 1.10 inches of rain reported in Tarpon Springs	Severe Thunderstorms
507300	44072	125139	1982-05-30	\$2,626	Servere Thunderstorms Spring 1982 2.00 inches of rain reported in St. Petesburg; 1.10 inches of rain reported in Tarpon Springs	Severe Thunderstorms
507455	302939	125139	1982-05-30	\$14,045	Servere Thunderstorms Spring 1982 2.00 inches of rain reported in St. Petesburg; 1.10 inches of rain reported in Tarpon Springs	Severe Thunderstorms
504384	28080	125139	1982-05-31	\$988	Servere Thunderstorms Spring 1982 2.00 inches of rain reported in St. Petesburg; 1.10 inches of rain reported in Tarpon Springs	Severe Thunderstorms



PC_UID	RL Number	Community	Claim Date	Total_Prem	Weather_Review_2022	Weather_Synopsis
501672	302025	125139	1982-06-18	\$647	Unnamed Tropical Storm Summer 1982 This storm moved from the southeast Gulf of Mexico Through Central Florida into the Atlantic Ocean; 4.40 inches of rain reported In St. Petersburg; 6.32 inches of rain reported in Tarpon Springs; high tides and waves rep	Subtropical Storm One
502061	302851	125139	1982-06-18	\$2,423	Unnamed Tropical Storm Summer 1982 This storm moved from the southeast Gulf of Mexico Through Central Florida into the Atlantic Ocean; 4.40 inches of rain reported In St. Petersburg; 6.32 inches of rain reported in Tarpon Springs; high tides and waves rep	Subtropical Storm One
502062	302851	125139	1982-06-18	\$149	Unnamed Tropical Storm Summer 1982 This storm moved from the southeast Gulf of Mexico Through Central Florida into the Atlantic Ocean; 4.40 inches of rain reported In St. Petersburg; 6.32 inches of rain reported in Tarpon Springs; high tides and waves rep	Subtropical Storm One
502063	302851	125139	1982-06-18	\$2,894	Unnamed Tropical Storm Summer 1982 This storm moved from the southeast Gulf of Mexico Through Central Florida into the Atlantic Ocean; 4.40 inches of rain reported In St. Petersburg; 6.32 inches of rain reported in Tarpon Springs; high tides and waves rep	Subtropical Storm One
502064	302851	125139	1982-06-18	\$2,312	Unnamed Tropical Storm Summer 1982 This storm moved from the southeast Gulf of Mexico Through Central Florida into the Atlantic Ocean; 4.40 inches of rain reported In St. Petersburg; 6.32 inches of rain reported in Tarpon Springs; high tides and waves rep	Subtropical Storm One
502124	302025	125139	1982-06-18	\$0	Unnamed Tropical Storm Summer 1982 This storm moved from the southeast Gulf of Mexico Through Central Florida into the Atlantic Ocean; 4.40 inches of rain reported In St. Petersburg; 6.32 inches of rain reported in Tarpon Springs; high tides and waves rep	Subtropical Storm One
502703	21810	125139	1982-06-18	\$3,222	Unnamed Tropical Storm Summer 1982 This storm moved from the southeast Gulf of Mexico Through Central Florida into the Atlantic Ocean; 4.40 inches of rain reported In St. Petersburg; 6.32 inches of rain reported in Tarpon Springs; high tides and waves rep	Subtropical Storm One
503481	13762	125139	1982-06-18	\$668	Unnamed Tropical Storm Summer 1982 This storm moved from the southeast Gulf of Mexico Through Central Florida into the Atlantic Ocean; 4.40 inches of rain reported In St. Petersburg; 6.32 inches of rain reported in Tarpon Springs; high tides and waves rep	Subtropical Storm One
503554	58465	125139	1982-06-18	\$660	Unnamed Tropical Storm Summer 1982 This storm moved from the southeast Gulf of Mexico Through Central Florida into the Atlantic Ocean; 4.40 inches of rain reported In St. Petersburg; 6.32 inches of rain reported in Tarpon Springs; high tides and waves rep	Subtropical Storm One
503828	83096	125139	1982-06-18	\$330	Unnamed Tropical Storm Summer 1982 This storm moved from the southeast Gulf of Mexico Through Central Florida into the Atlantic Ocean; 4.40 inches of rain reported In St. Petersburg; 6.32 inches of rain reported in Tarpon Springs; high tides and waves rep	Subtropical Storm One
503901	302843	125139	1982-06-18	\$1,577	Unnamed Tropical Storm Summer 1982 This storm moved from the southeast Gulf of Mexico Through Central Florida into the Atlantic Ocean; 4.40 inches of rain reported In St. Petersburg; 6.32 inches of rain reported in Tarpon Springs; high tides and waves rep	Subtropical Storm One

PC_UID	RL Number	Community	Claim Date	Total_Prem	Weather_Review_2022	Weather_Synopsis
503969	302893	125139	1982-06-18	\$21,401	Unnamed Tropical Storm Summer 1982 This storm moved from the southeast Gulf of Mexico Through Central Florida into the Atlantic Ocean; 4.40 inches of rain reported In St. Petersburg; 6.32 inches of rain reported in Tarpon Springs; high tides and waves rep	Subtropical Storm One
504017	27807	125139	1982-06-18	\$1,503	Unnamed Tropical Storm Summer 1982 This storm moved from the southeast Gulf of Mexico Through Central Florida into the Atlantic Ocean; 4.40 inches of rain reported In St. Petersburg; 6.32 inches of rain reported in Tarpon Springs; high tides and waves rep	Subtropical Storm One
505106	28169	125139	1982-06-18	\$3,186	Unnamed Tropical Storm Summer 1982 This storm moved from the southeast Gulf of Mexico Through Central Florida into the Atlantic Ocean; 4.40 inches of rain reported In St. Petersburg; 6.32 inches of rain reported in Tarpon Springs; high tides and waves rep	Subtropical Storm One
507447	44916	125139	1982-06-18	\$2,555	Unnamed Tropical Storm Summer 1982 This storm moved from the southeast Gulf of Mexico Through Central Florida into the Atlantic Ocean; 4.40 inches of rain reported In St. Petersburg; 6.32 inches of rain reported in Tarpon Springs; high tides and waves rep	Subtropical Storm One
507449	44916	125139	1982-06-18	\$2,505	Unnamed Tropical Storm Summer 1982 This storm moved from the southeast Gulf of Mexico Through Central Florida into the Atlantic Ocean; 4.40 inches of rain reported In St. Petersburg; 6.32 inches of rain reported in Tarpon Springs; high tides and waves rep	Subtropical Storm One
507450	44916	125139	1982-06-18	\$2,660	Unnamed Tropical Storm Summer 1982 This storm moved from the southeast Gulf of Mexico Through Central Florida into the Atlantic Ocean; 4.40 inches of rain reported In St. Petersburg; 6.32 inches of rain reported in Tarpon Springs; high tides and waves rep	Subtropical Storm One
507804	10933	125139	1982-06-18	\$0	Unnamed Tropical Storm Summer 1982 This storm moved from the southeast Gulf of Mexico Through Central Florida into the Atlantic Ocean; 4.40 inches of rain reported In St. Petersburg; 6.32 inches of rain reported in Tarpon Springs; high tides and waves rep	Subtropical Storm One
505066	28164	125139	1983-08-11	\$0	Unknown Summer 1983 Claim not paid; 08/1983 Countywide rainfall total 8.91 inches	
504385	28080	125139	1983-09-01	\$4,361	Thunderstorms Summer 1983 0.49 inches ofrain reported in Tarpon Springs; 1.30 inches ofrain reported at TIA.	
503970	302893	125139	1983-09-12	\$572	Thunderstorms Summer 1983 0.04 inches of rain reported in St. Petersburg; 0.80 inches ofrain reported in Tarpon Springs; Flooding reported in Seminole.	
511960	302939	125139	1983-09-12	\$1,086	Thunderstorms Summer 1983 0.04 inches of rain reported in St. Petersburg; 0.80 inches ofrain reported in Tarpon Springs; Flooding reported in Seminole.	
503902	302843	125139	1983-09-13	\$0	Thunderstorms Summer 1983 1.69 inches of rain reported in St. Petersburg; 2.70 inches of rain reported in Tarpon Springs; 0.60 inches ofrain reported at TIA.	
505067	28164	125139	1983-09-19	\$1,142	Thunderstorms Summer 1983 0.53 inches ofrain reported in St. Petersburg;1.70 inches ofrain reported in Tarpon Springs;0.87 inches ofrain reported at TIA; Severe flooding reported in Seminole. (Hurricane Alicia 1983 Outer Bands)	Hurricane Alicia 1983 Outer Bands
507301	44072	125139	1983-09-19	\$9,421	Thunderstorms Summer 1983 0.53 inches ofrain reported in St. Petersburg;1.70 inches ofrain reported in Tarpon Springs;0.87 inches ofrain reported at TIA; Severe flooding reported in Seminole. (Hurricane Alicia 1983 Outer Bands)	Hurricane Alicia 1983 Outer Bands

PC_UID	RL Number	Community	Claim Date	Total_Prem	Weather_Review_2022	Weather_Synopsis
506283	58461	125139	1985-08-30	\$11,567	Hurricane Elena Autumn 1985 8/30/85 - 9/4/1985 Northwest winds of 95 miles per hour were reported;Tides from three to five feet above normal werereported from Sarasota to Apalachicola. Rainfall ranged from two inches at Key West to 11 inches at Apa]	Hurricane Elena 1985
506729	81307	125139	1985-08-30	\$4,922	Hurricane Elena Autumn 1985 8/30/85 - 9/4/1985 Northwest winds of 95 miles per hour were reported;Tides from three to five feet above normal werereported from Sarasota to Apalachicola. Rainfall ranged from two inches at Key West to 11 inches at Apa]	Hurricane Elena 1985
507446	58899	125139	1985-08-30	\$8,597	Hurricane Elena Autumn 1985 8/30/85 - 9/4/1985 Northwest winds of 95 miles per hour were reported;Tides from three to five feet above normal werereported from Sarasota to Apalachicola. Rainfall ranged from two inches at Key West to 11 inches at Apa]	Hurricane Elena 1985
501039	58471	125139	1985-08-31	\$1,650	Hurricane Elena Autumn 1985 8/30/85 - 9/4/1985 Northwest winds of 95 miles per hour were reported;Tides from three to five feet above normal werereported from Sarasota to Apalachicola. Rainfall ranged from two inches at Key West to 11 inches at Apa]	Hurricane Elena 1985
502047	58881	125139	1985-08-31	\$3,987	Hurricane Elena Autumn 1985 8/30/85 - 9/4/1985 Northwest winds of 95 miles per hour were reported;Tides from three to five feet above normal werereported from Sarasota to Apalachicola. Rainfall ranged from two inches at Key West to 11 inches at Apa]	Hurricane Elena 1985
502238	58462	125139	1985-08-31	\$11,115	Hurricane Elena Autumn 1985 8/30/85 - 9/4/1985 Northwest winds of 95 miles per hour were reported;Tides from three to five feet above normal werereported from Sarasota to Apalachicola. Rainfall ranged from two inches at Key West to 11 inches at Apa]	Hurricane Elena 1985
502704	21810	125139	1985-08-31	\$4,247	Hurricane Elena Autumn 1985 8/30/85 - 9/4/1985 Northwest winds of 95 miles per hour were reported;Tides from three to five feet above normal werereported from Sarasota to Apalachicola. Rainfall ranged from two inches at Key West to 11 inches at Apa]	Hurricane Elena 1985
503480	13762	125139	1985-08-31	\$970	Hurricane Elena Autumn 1985 8/30/85 - 9/4/1985 Northwest winds of 95 miles per hour were reported;Tides from three to five feet above normal werereported from Sarasota to Apalachicola. Rainfall ranged from two inches at Key West to 11 inches at Apa]	Hurricane Elena 1985
503555	58465	125139	1985-08-31	\$14,112	Hurricane Elena Autumn 1985 8/30/85 - 9/4/1985 Northwest winds of 95 miles per hour were reported;Tides from three to five feet above normal werereported from Sarasota to Apalachicola. Rainfall ranged from two inches at Key West to 11 inches at Apa]	Hurricane Elena 1985
503829	83096	125139	1985-08-31	\$3,342	Hurricane Elena Autumn 1985 8/30/85 - 9/4/1985 Northwest winds of 95 miles per hour were reported;Tides from three to five feet above normal werereported from Sarasota to Apalachicola. Rainfall ranged from two inches at Key West to 11 inches at Apa]	Hurricane Elena 1985
504018	27807	125139	1985-08-31	\$2,770	Hurricane Elena Autumn 1985 8/30/85 - 9/4/1985 Northwest winds of 95 miles per hour were reported;Tides from three to five feet above normal werereported from Sarasota to Apalachicola. Rainfall ranged from two inches at Key West to 11 inches at Apa]	Hurricane Elena 1985

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505107	28169	125139	1985-08-31	\$18,313	Hurricane Elena Autumn 1985 8/30/85 - 9/4/1985 Northwest winds of 95 miles per hour were reported;Tides from three to five feet above normal werereported from Sarasota to Apalachicola. Rainfall ranged from two inches at Key West to 11 inches at Apa]	Hurricane Elena 1985
506529	99703	125139	1985-08-31	\$13,098	Hurricane Elena Autumn 1985 8/30/85 - 9/4/1985 Northwest winds of 95 miles per hour were reported;Tides from three to five feet above normal werereported from Sarasota to Apalachicola. Rainfall ranged from two inches at Key West to 11 inches at Apa]	Hurricane Elena 1985
506547	58463	125139	1985-08-31	\$5,066	Hurricane Elena Autumn 1985 8/30/85 - 9/4/1985 Northwest winds of 95 miles per hour were reported;Tides from three to five feet above normal werereported from Sarasota to Apalachicola. Rainfall ranged from two inches at Key West to 11 inches at Apa]	Hurricane Elena 1985
507324	81307	125139	1985-08-31	\$0	Hurricane Elena Autumn 1985 8/30/85 - 9/4/1985 Northwest winds of 95 miles per hour were reported;Tides from three to five feet above normal werereported from Sarasota to Apalachicola. Rainfall ranged from two inches at Key West to 11 inches at Apa]	Hurricane Elena 1985
507355	58869	125139	1985-08-31	\$798	Hurricane Elena Autumn 1985 8/30/85 - 9/4/1985 Northwest winds of 95 miles per hour were reported;Tides from three to five feet above normal werereported from Sarasota to Apalachicola. Rainfall ranged from two inches at Key West to 11 inches at Apa]	Hurricane Elena 1985
507448	44916	125139	1985-08-31	\$1,080	Hurricane Elena Autumn 1985 8/30/85 - 9/4/1985 Northwest winds of 95 miles per hour were reported;Tides from three to five feet above normal werereported from Sarasota to Apalachicola. Rainfall ranged from two inches at Key West to 11 inches at Apa]	Hurricane Elena 1985
507502	81307	125139	1985-08-31	\$1,194	Hurricane Elena Autumn 1985 8/30/85 - 9/4/1985 Northwest winds of 95 miles per hour were reported;Tides from three to five feet above normal werereported from Sarasota to Apalachicola. Rainfall ranged from two inches at Key West to 11 inches at Apa]	Hurricane Elena 1985
507742	58477	125139	1985-08-31	\$2,978	Hurricane Elena Autumn 1985 8/30/85 - 9/4/1985 Northwest winds of 95 miles per hour were reported;Tides from three to five feet above normal werereported from Sarasota to Apalachicola. Rainfall ranged from two inches at Key West to 11 inches at Apa]	Hurricane Elena 1985
508040	295393	125139	1985-08-31	\$24,348	Hurricane Elena Autumn 1985 8/30/85 - 9/4/1985 Northwest winds of 95 miles per hour were reported;Tides from three to five feet above normal werereported from Sarasota to Apalachicola. Rainfall ranged from two inches at Key West to 11 inches at Apa]	Hurricane Elena 1985
509218	58693	125139	1985-08-31	\$3,675	Hurricane Elena Autumn 1985 8/30/85 - 9/4/1985 Northwest winds of 95 miles per hour were reported;Tides from three to five feet above normal werereported from Sarasota to Apalachicola. Rainfall ranged from two inches at Key West to 11 inches at Apa]	Hurricane Elena 1985
511535	80756	125139	1985-08-31	\$1,125	Hurricane Elena Autumn 1985 8/30/85 - 9/4/1985 Northwest winds of 95 miles per hour were reported;Tides from three to five feet above normal werereported from Sarasota to Apalachicola. Rainfall ranged from two inches at Key West to 11 inches at Apa]	Hurricane Elena 1985

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511848	58901	125139	1985-08-31	\$2,000	Hurricane Elena Autumn 1985 8/30/85 - 9/4/1985 Northwest winds of 95 miles per hour were reported;Tides from three to five feet above normal werereported from Sarasota to Apalachicola. Rainfall ranged from two inches at Key West to 11 inches at Apa]	Hurricane Elena 1985
511919	83016	125139	1985-08-31	\$2,445	Hurricane Elena Autumn 1985 8/30/85 - 9/4/1985 Northwest winds of 95 miles per hour were reported;Tides from three to five feet above normal werereported from Sarasota to Apalachicola. Rainfall ranged from two inches at Key West to 11 inches at Apa]	Hurricane Elena 1985
511943	58897	125139	1985-08-31	\$1,506	Hurricane Elena Autumn 1985 8/30/85 - 9/4/1985 Northwest winds of 95 miles per hour were reported;Tides from three to five feet above normal werereported from Sarasota to Apalachicola. Rainfall ranged from two inches at Key West to 11 inches at Apa]	Hurricane Elena 1985
512272	58478	125139	1985-08-31	\$10,598	Hurricane Elena Autumn 1985 8/30/85 - 9/4/1985 Northwest winds of 95 miles per hour were reported;Tides from three to five feet above normal werereported from Sarasota to Apalachicola. Rainfall ranged from two inches at Key West to 11 inches at Apa]	Hurricane Elena 1985
512689	58898	125139	1985-08-31	\$7,429	Hurricane Elena Autumn 1985 8/30/85 - 9/4/1985 Northwest winds of 95 miles per hour were reported;Tides from three to five feet above normal werereported from Sarasota to Apalachicola. Rainfall ranged from two inches at Key West to 11 inches at Apa]	Hurricane Elena 1985
514868	86364	125139	1985-08-31	\$3,452	Hurricane Elena Autumn 1985 8/30/85 - 9/4/1985 Northwest winds of 95 miles per hour were reported;Tides from three to five feet above normal werereported from Sarasota to Apalachicola. Rainfall ranged from two inches at Key West to 11 inches at Apa]	Hurricane Elena 1985
519104	304104	125139	1985-08-31	\$5,590	Hurricane Elena Autumn 1985 8/30/85 - 9/4/1985 Northwest winds of 95 miles per hour were reported;Tides from three to five feet above normal werereported from Sarasota to Apalachicola. Rainfall ranged from two inches at Key West to 11 inches at Apa]	Hurricane Elena 1985
519116	13698	125139	1985-08-31	\$7,895	Hurricane Elena Autumn 1985 8/30/85 - 9/4/1985 Northwest winds of 95 miles per hour were reported;Tides from three to five feet above normal werereported from Sarasota to Apalachicola. Rainfall ranged from two inches at Key West to 11 inches at Apa]	Hurricane Elena 1985
511679	52516	125139	1985-09-01	\$15,269	Hurricane Elena Autumn 1985 8/30/85 - 9/4/1985 Northwest winds of 95 miles per hour were reported;Tides from three to five feet above normal werereported from Sarasota to Apalachicola. Rainfall ranged from two inches at Key West to 11 inches at Apa]	Hurricane Elena 1985
512212	81307	125139	1985-09-01	\$0	Hurricane Elena Autumn 1985 8/30/85 - 9/4/1985 Northwest winds of 95 miles per hour were reported;Tides from three to five feet above normal werereported from Sarasota to Apalachicola. Rainfall ranged from two inches at Key West to 11 inches at Apa]	Hurricane Elena 1985
512655	302851	125139	1985-09-01	\$8,762	Hurricane Elena Autumn 1985 8/30/85 - 9/4/1985 Northwest winds of 95 miles per hour were reported;Tides from three to five feet above normal werereported from Sarasota to Apalachicola. Rainfall ranged from two inches at Key West to 11 inches at Apa]	Hurricane Elena 1985

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512707	10933	125139	1985-09-01	\$21,983	Hurricane Elena Autumn 1985 8/30/85 - 9/4/1985 Northwest winds of 95 miles per hour were reported;Tides from three to five feet above normal werereported from Sarasota to Apalachicola. Rainfall ranged from two inches at Key West to 11 inches at Apa]	Hurricane Elena 1985
501673	302025	125139	1985-09-02	\$5,239	Hurricane Elena Autumn 1985 8/30/85 - 9/4/1985 Northwest winds of 95 miles per hour were reported;Tides from three to five feet above normal werereported from Sarasota to Apalachicola. Rainfall ranged from two inches at Key West to 11 inches at Apa]	Hurricane Elena 1985
502702	21810	125139	1985-10-31	\$0	Severe Thunderstorms Autumn 1985 1.25 inches ofrain reported in St. Petersburg; 0.58 inches ofrain reported in Tarpon Springs; 2.69 inches ofrain reported at TIA; Thunderstorms and high speed winds are reported in neighboring counties. (Hurricane Juan 19	Hurricane Juan 1985 Rain Bands
512708	10933	125139	1985-10-31	\$3,414	Severe Thunderstorms Autumn 1985 1.25 inches ofrain reported in St. Petersburg; 0.58 inches ofrain reported in Tarpon Springs; 2.69 inches ofrain reported at TIA; Thunderstorms and high speed winds are reported in neighboring counties. (Hurricane Juan 19	Hurricane Juan 1985 Rain Bands
519511	1985	125139	1986-10-26	\$0	Unknown Autumn 1986 10/1986 Countywide rainfall total 8.11 inches	
501351	10933	125139	1986-12-03	\$1,925	Unknown Autumn 1986 12/1986 Countywide rainfall total 2.81 inches	
512439	44916	125139	1987-01-21	\$0	Unknown Winter 1986-87 Claim not paid; 01/1987 Countywide rainfall total 3.87 inches	cold front
512749	302843	125139	1987-03-28	\$1,706	Heavy Rainfall Winter 1986-87 1.68 inches of rain reported in St. Petersburg; 1.37 inches of rain reported in Tarpon Springs.	
501189	10890	125139	1988-07-15	\$1,034	Thunderstorms Summer 1988 Flooding reported in low lying areas and streets. High winds and thunderstorms reported in Palm Harbor; 0.46 inches ofrain reported in St. Petersburg; 0.35 inches of rain reported at TIA.	
510593	10942	125139	1988-08-11	\$1,165	Unknown Summer 1988 08/1988 Countywide rainfall total 10.29 inches (Tropical Storm Beryl Outer Bands)	Tropical Storm Beryl 1988 Outer Bands
501156	213406	125139	1988-09-08	\$21,720	Heavy Rainfall Summer 1988 Extensive flooding took place due to heavy rainfall over West Central Florida. Up to 20 inches of rain from 9/05-9/09. (Hurricane Florence 1988 Outer Bands)	Hurricane Florence 1988 Outer Bands
501190	10890	125139	1988-09-08	\$38,128	Heavy Rainfall Summer 1988 Extensive flooding took place due to heavy rainfall over West Central Florida. Up to 20 inches of rain from 9/05-9/09. (Hurricane Florence 1988 Outer Bands)	Hurricane Florence 1988 Outer Bands
505860	33922	125139	1988-09-08	\$2,428	Heavy Rainfall Summer 1988 Extensive flooding took place due to heavy rainfall over West Central Florida. Up to 20 inches of rain from 9/05-9/09. (Hurricane Florence 1988 Outer Bands)	Hurricane Florence 1988 Outer Bands
506730	81307	125139	1988-09-08	\$495	Heavy Rainfall Summer 1988 Extensive flooding took place due to heavy rainfall over West Central Florida. Up to 20 inches of rain from 9/05-9/09. (Hurricane Florence 1988 Outer Bands)	Hurricane Florence 1988 Outer Bands
507320	81307	125139	1988-09-08	\$5,303	Heavy Rainfall Summer 1988 Extensive flooding took place due to heavy rainfall over West Central Florida. Up to 20 inches of rain from 9/05-9/09. (Hurricane Florence 1988 Outer Bands)	Hurricane Florence 1988 Outer Bands
507356	58869	125139	1988-09-08	\$0	Heavy Rainfall Summer 1988 Extensive flooding took place due to heavy rainfall over West Central Florida. Up to 20 inches of rain from 9/05-9/09. (Hurricane Florence 1988 Outer Bands)	Hurricane Florence 1988 Outer Bands



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507501	81307	125139	1988-09-08	\$1,969	Heavy Rainfall Summer 1988 Extensive flooding took place due to heavy rainfall over West Central Florida. Up to 20 inches of rain from 9/05-9/09. (Hurricane Florence 1988 Outer Bands)	Hurricane Florence 1988 Outer Bands
510594	10942	125139	1988-09-08	\$4,238	Heavy Rainfall Summer 1988 Extensive flooding took place due to heavy rainfall over West Central Florida. Up to 20 inches of rain from 9/05-9/09. (Hurricane Florence 1988 Outer Bands)	Hurricane Florence 1988 Outer Bands
513078	28080	125139	1988-09-08	\$2,159	Heavy Rainfall Summer 1988 Extensive flooding took place due to heavy rainfall over West Central Florida. Up to 20 inches of rain from 9/05-9/09. (Hurricane Florence 1988 Outer Bands)	Hurricane Florence 1988 Outer Bands
513157	80756	125139	1988-09-08	\$0	Heavy Rainfall Summer 1988 Extensive flooding took place due to heavy rainfall over West Central Florida. Up to 20 inches of rain from 9/05-9/09. (Hurricane Florence 1988 Outer Bands)	Hurricane Florence 1988 Outer Bands
515719	9449	125139	1988-09-08	\$41,365	Heavy Rainfall Summer 1988 Extensive flooding took place due to heavy rainfall over West Central Florida. Up to 20 inches of rain from 9/05-9/09. (Hurricane Florence 1988 Outer Bands)	Hurricane Florence 1988 Outer Bands
516251	303204	125139	1988-09-08	\$3,143	Heavy Rainfall Summer 1988 Extensive flooding took place due to heavy rainfall over West Central Florida. Up to 20 inches of rain from 9/05-9/09. (Hurricane Florence 1988 Outer Bands)	Hurricane Florence 1988 Outer Bands
508196	81307	125139	1988-09-20	\$2,307	Heavy Rainfall Summer 1988 Extensive flooding took place due to heavy rainfall over West Central Florida. Up to 20 inches of rain from 9/05-9/09. (Hurricane Florence 1988 Outer Bands)	Hurricane Florence 1988 Outer Bands
506731	81307	125139	1988-11-22	\$0	Tropical Storm Keith Winter 1988 Storm surge associated with Tropical Storm Keith.	Tropical Storm Keith 1988
507357	58869	125139	1988-11-22	\$1,864	Tropical Storm Keith Winter 1988 Storm surge associated with Tropical Storm Keith.	Tropical Storm Keith 1988
509219	58693	125139	1988-11-22	\$0	Tropical Storm Keith Winter 1988 Storm surge associated with Tropical Storm Keith.	Tropical Storm Keith 1988
515720	9449	125139	1988-11-22	\$36,851	Tropical Storm Keith Winter 1988 Storm surge associated with Tropical Storm Keith.	Tropical Storm Keith 1988
501352	10933	125139	1991-01-19	\$8,772	Thunderstorms Winter 1990-91 0.24 inches of rain reported in St. Petersburg. Strong line of thunderstorms associated with a cold front. / Jan 19 thru 20 1991 - Severe thunderstorm outbreak - Strong thunderstorms with a cold front moved through north and	cold front with severe thunderstorm outbreak
511680	52516	125139	1991-01-19	\$1,839	Thunderstorms Winter 1990-91 0.24 inches of rain reported in St. Petersburg. Strong line of thunderstorms associated with a cold front. / Jan 19 thru 20 1991 - Severe thunderstorm outbreak - Strong thunderstorms with a cold front moved through north and	cold front with severe thunderstorm outbreak
520508	13762	125139	1991-01-19	\$2,482	Thunderstorms Winter 1990-91 0.24 inches of rain reported in St. Petersburg. Strong line of thunderstorms associated with a cold front. / Jan 19 thru 20 1991 - Severe thunderstorm outbreak - Strong thunderstorms with a cold front moved through north and	cold front with severe thunderstorm outbreak
516528	81307	125139	1992-10-03	\$1,198	Severe Thunderstorms Autumn 1992 8.00 inches of rain reported in Tarpon Springs. Tornado damage reported.	
503706	302025	125139	1993-03-13	\$0	"Storm of the Century", "No-Name Storm" (Line of storms over the Gulf of Mexico blew in a 7-foot storm surge near St. Pete Beach); on the Saffir-Simpson scale for hurricane strength, it equated to a category 3 hurricane based on storm surge and minimum	Storm of the Century 1993

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509269	98248	125139	1993-03-13	\$7,891	"Storm of the Century", "No-Name Storm" (Line of storms over the Gulf of Mexico blew in a 7-foot storm surge near St. Pete Beach); on the Saffir-Simpson scale for hurricane strength, it equated to a category 3 hurricane based on storm surge and minimum	Storm of the Century 1993
509422	58901	125139	1993-03-13	\$7,847	"Storm of the Century", "No-Name Storm" (Line of storms over the Gulf of Mexico blew in a 7-foot storm surge near St. Pete Beach); on the Saffir-Simpson scale for hurricane strength, it equated to a category 3 hurricane based on storm surge and minimum	Storm of the Century 1993
509667	40595	125139	1993-03-13	\$9,494	"Storm of the Century", "No-Name Storm" (Line of storms over the Gulf of Mexico blew in a 7-foot storm surge near St. Pete Beach); on the Saffir-Simpson scale for hurricane strength, it equated to a category 3 hurricane based on storm surge and minimum	Storm of the Century 1993
510243	103431	125139	1993-03-13	\$16,070	"Storm of the Century", "No-Name Storm" (Line of storms over the Gulf of Mexico blew in a 7-foot storm surge near St. Pete Beach); on the Saffir-Simpson scale for hurricane strength, it equated to a category 3 hurricane based on storm surge and minimum	Storm of the Century 1993
510288	83096	125139	1993-03-13	\$4,653	"Storm of the Century", "No-Name Storm" (Line of storms over the Gulf of Mexico blew in a 7-foot storm surge near St. Pete Beach); on the Saffir-Simpson scale for hurricane strength, it equated to a category 3 hurricane based on storm surge and minimum	Storm of the Century 1993
511681	52516	125139	1993-03-13	\$60,456	"Storm of the Century", "No-Name Storm" (Line of storms over the Gulf of Mexico blew in a 7-foot storm surge near St. Pete Beach); on the Saffir-Simpson scale for hurricane strength, it equated to a category 3 hurricane based on storm surge and minimum	Storm of the Century 1993
513086	85585	125139	1993-03-13	\$20,971	"Storm of the Century", "No-Name Storm" (Line of storms over the Gulf of Mexico blew in a 7-foot storm surge near St. Pete Beach); on the Saffir-Simpson scale for hurricane strength, it equated to a category 3 hurricane based on storm surge and minimum	Storm of the Century 1993
513158	80756	125139	1993-03-13	\$22,590	"Storm of the Century", "No-Name Storm" (Line of storms over the Gulf of Mexico blew in a 7-foot storm surge near St. Pete Beach); on the Saffir-Simpson scale for hurricane strength, it equated to a category 3 hurricane based on storm surge and minimum	Storm of the Century 1993
513264	86361	125139	1993-03-13	\$23,863	"Storm of the Century", "No-Name Storm" (Line of storms over the Gulf of Mexico blew in a 7-foot storm surge near St. Pete Beach); on the Saffir-Simpson scale for hurricane strength, it equated to a category 3 hurricane based on storm surge and minimum	Storm of the Century 1993
514440	10933	125139	1993-03-13	\$46,509	"Storm of the Century", "No-Name Storm" (Line of storms over the Gulf of Mexico blew in a 7-foot storm surge near St. Pete Beach); on the Saffir-Simpson scale for hurricane strength, it equated to a category 3 hurricane based on storm surge and minimum	Storm of the Century 1993
515793	83096	125139	1993-03-13	\$37,119	"Storm of the Century", "No-Name Storm" (Line of storms over the Gulf of Mexico blew in a 7-foot storm surge near St. Pete Beach); on the Saffir-Simpson scale for hurricane strength, it equated to a category 3 hurricane based on storm surge and minimum	Storm of the Century 1993

PC_UID	RL Number	Community	Claim Date	Total_Prem	Weather_Review_2022	Weather_Synopsis
516506	97759	125139	1993-03-13	\$19,200	"Storm of the Century", "No-Name Storm" (Line of storms over the Gulf of Mexico blew in a 7-foot storm surge near St. Pete Beach); on the Saffir-Simpson scale for hurricane strength, it equated to a category 3 hurricane based on storm surge and minimum	Storm of the Century 1993
516509	58881	125139	1993-03-13	\$67,142	"Storm of the Century", "No-Name Storm" (Line of storms over the Gulf of Mexico blew in a 7-foot storm surge near St. Pete Beach); on the Saffir-Simpson scale for hurricane strength, it equated to a category 3 hurricane based on storm surge and minimum	Storm of the Century 1993
516607	302025	125139	1993-03-13	\$0	"Storm of the Century", "No-Name Storm" (Line of storms over the Gulf of Mexico blew in a 7-foot storm surge near St. Pete Beach); on the Saffir-Simpson scale for hurricane strength, it equated to a category 3 hurricane based on storm surge and minimum	Storm of the Century 1993
516737	74999	125139	1993-03-13	\$14,495	"Storm of the Century", "No-Name Storm" (Line of storms over the Gulf of Mexico blew in a 7-foot storm surge near St. Pete Beach); on the Saffir-Simpson scale for hurricane strength, it equated to a category 3 hurricane based on storm surge and minimum	Storm of the Century 1993
516795	105465	125139	1993-03-13	\$29,206	"Storm of the Century", "No-Name Storm" (Line of storms over the Gulf of Mexico blew in a 7-foot storm surge near St. Pete Beach); on the Saffir-Simpson scale for hurricane strength, it equated to a category 3 hurricane based on storm surge and minimum	Storm of the Century 1993
516977	101391	125139	1993-03-13	\$131,889	"Storm of the Century", "No-Name Storm" (Line of storms over the Gulf of Mexico blew in a 7-foot storm surge near St. Pete Beach); on the Saffir-Simpson scale for hurricane strength, it equated to a category 3 hurricane based on storm surge and minimum	Storm of the Century 1993
517005	101395	125139	1993-03-13	\$14,057	"Storm of the Century", "No-Name Storm" (Line of storms over the Gulf of Mexico blew in a 7-foot storm surge near St. Pete Beach); on the Saffir-Simpson scale for hurricane strength, it equated to a category 3 hurricane based on storm surge and minimum	Storm of the Century 1993
517119	58899	125139	1993-03-13	\$40,420	"Storm of the Century", "No-Name Storm" (Line of storms over the Gulf of Mexico blew in a 7-foot storm surge near St. Pete Beach); on the Saffir-Simpson scale for hurricane strength, it equated to a category 3 hurricane based on storm surge and minimum	Storm of the Century 1993
517140	99703	125139	1993-03-13	\$38,253	"Storm of the Century", "No-Name Storm" (Line of storms over the Gulf of Mexico blew in a 7-foot storm surge near St. Pete Beach); on the Saffir-Simpson scale for hurricane strength, it equated to a category 3 hurricane based on storm surge and minimum	Storm of the Century 1993
517286	81758	125139	1993-03-13	\$19,845	"Storm of the Century", "No-Name Storm" (Line of storms over the Gulf of Mexico blew in a 7-foot storm surge near St. Pete Beach); on the Saffir-Simpson scale for hurricane strength, it equated to a category 3 hurricane based on storm surge and minimum	Storm of the Century 1993
517329	58478	125139	1993-03-13	\$56,284	"Storm of the Century", "No-Name Storm" (Line of storms over the Gulf of Mexico blew in a 7-foot storm surge near St. Pete Beach); on the Saffir-Simpson scale for hurricane strength, it equated to a category 3 hurricane based on storm surge and minimum	Storm of the Century 1993

PC_UID	RL Number	Community	Claim Date	Total_Prem	Weather_Review_2022	Weather_Synopsis
517418	300831	125139	1993-03-13	\$10,706	"Storm of the Century", "No-Name Storm" (Line of storms over the Gulf of Mexico blew in a 7-foot storm surge near St. Pete Beach); on the Saffir-Simpson scale for hurricane strength, it equated to a category 3 hurricane based on storm surge and minimum	Storm of the Century 1993
517422	58898	125139	1993-03-13	\$32,451	"Storm of the Century", "No-Name Storm" (Line of storms over the Gulf of Mexico blew in a 7-foot storm surge near St. Pete Beach); on the Saffir-Simpson scale for hurricane strength, it equated to a category 3 hurricane based on storm surge and minimum	Storm of the Century 1993
517530	295393	125139	1993-03-13	\$5,691	"Storm of the Century", "No-Name Storm" (Line of storms over the Gulf of Mexico blew in a 7-foot storm surge near St. Pete Beach); on the Saffir-Simpson scale for hurricane strength, it equated to a category 3 hurricane based on storm surge and minimum	Storm of the Century 1993
517663	58477	125139	1993-03-13	\$62,568	"Storm of the Century", "No-Name Storm" (Line of storms over the Gulf of Mexico blew in a 7-foot storm surge near St. Pete Beach); on the Saffir-Simpson scale for hurricane strength, it equated to a category 3 hurricane based on storm surge and minimum	Storm of the Century 1993
518235	101729	125139	1993-03-13	\$9,269	"Storm of the Century", "No-Name Storm" (Line of storms over the Gulf of Mexico blew in a 7-foot storm surge near St. Pete Beach); on the Saffir-Simpson scale for hurricane strength, it equated to a category 3 hurricane based on storm surge and minimum	Storm of the Century 1993
518388	99706	125139	1993-03-13	\$16,815	"Storm of the Century", "No-Name Storm" (Line of storms over the Gulf of Mexico blew in a 7-foot storm surge near St. Pete Beach); on the Saffir-Simpson scale for hurricane strength, it equated to a category 3 hurricane based on storm surge and minimum	Storm of the Century 1993
518478	101742	125139	1993-03-13	\$19,628	"Storm of the Century", "No-Name Storm" (Line of storms over the Gulf of Mexico blew in a 7-foot storm surge near St. Pete Beach); on the Saffir-Simpson scale for hurricane strength, it equated to a category 3 hurricane based on storm surge and minimum	Storm of the Century 1993
519117	13698	125139	1993-03-13	\$34,400	"Storm of the Century", "No-Name Storm" (Line of storms over the Gulf of Mexico blew in a 7-foot storm surge near St. Pete Beach); on the Saffir-Simpson scale for hurricane strength, it equated to a category 3 hurricane based on storm surge and minimum	Storm of the Century 1993
519408	58462	125139	1993-03-13	\$31,770	"Storm of the Century", "No-Name Storm" (Line of storms over the Gulf of Mexico blew in a 7-foot storm surge near St. Pete Beach); on the Saffir-Simpson scale for hurricane strength, it equated to a category 3 hurricane based on storm surge and minimum	Storm of the Century 1993
519512	1985	125139	1993-03-13	\$10,435	"Storm of the Century", "No-Name Storm" (Line of storms over the Gulf of Mexico blew in a 7-foot storm surge near St. Pete Beach); on the Saffir-Simpson scale for hurricane strength, it equated to a category 3 hurricane based on storm surge and minimum	Storm of the Century 1993
519604	84308	125139	1993-03-13	\$32,181	"Storm of the Century", "No-Name Storm" (Line of storms over the Gulf of Mexico blew in a 7-foot storm surge near St. Pete Beach); on the Saffir-Simpson scale for hurricane strength, it equated to a category 3 hurricane based on storm surge and minimum	Storm of the Century 1993

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519659	84312	125139	1993-03-13	\$37,150	"Storm of the Century", "No-Name Storm" (Line of storms over the Gulf of Mexico blew in a 7-foot storm surge near St. Pete Beach); on the Saffir-Simpson scale for hurricane strength, it equated to a category 3 hurricane based on storm surge and minimum	Storm of the Century 1993
519739	58463	125139	1993-03-13	\$11,043	"Storm of the Century", "No-Name Storm" (Line of storms over the Gulf of Mexico blew in a 7-foot storm surge near St. Pete Beach); on the Saffir-Simpson scale for hurricane strength, it equated to a category 3 hurricane based on storm surge and minimum	Storm of the Century 1993
519996	44916	125139	1993-03-13	\$2,618	"Storm of the Century", "No-Name Storm" (Line of storms over the Gulf of Mexico blew in a 7-foot storm surge near St. Pete Beach); on the Saffir-Simpson scale for hurricane strength, it equated to a category 3 hurricane based on storm surge and minimum	Storm of the Century 1993
519997	44916	125139	1993-03-13	\$10,641	"Storm of the Century", "No-Name Storm" (Line of storms over the Gulf of Mexico blew in a 7-foot storm surge near St. Pete Beach); on the Saffir-Simpson scale for hurricane strength, it equated to a category 3 hurricane based on storm surge and minimum	Storm of the Century 1993
519998	44916	125139	1993-03-13	\$9,760	"Storm of the Century", "No-Name Storm" (Line of storms over the Gulf of Mexico blew in a 7-foot storm surge near St. Pete Beach); on the Saffir-Simpson scale for hurricane strength, it equated to a category 3 hurricane based on storm surge and minimum	Storm of the Century 1993
520509	13762	125139	1993-03-13	\$40,784	"Storm of the Century", "No-Name Storm" (Line of storms over the Gulf of Mexico blew in a 7-foot storm surge near St. Pete Beach); on the Saffir-Simpson scale for hurricane strength, it equated to a category 3 hurricane based on storm surge and minimum	Storm of the Century 1993
520613	58471	125139	1993-03-13	\$44,620	"Storm of the Century", "No-Name Storm" (Line of storms over the Gulf of Mexico blew in a 7-foot storm surge near St. Pete Beach); on the Saffir-Simpson scale for hurricane strength, it equated to a category 3 hurricane based on storm surge and minimum	Storm of the Century 1993
520642	58461	125139	1993-03-13	\$42,855	"Storm of the Century", "No-Name Storm" (Line of storms over the Gulf of Mexico blew in a 7-foot storm surge near St. Pete Beach); on the Saffir-Simpson scale for hurricane strength, it equated to a category 3 hurricane based on storm surge and minimum	Storm of the Century 1993
520649	86938	125139	1993-03-13	\$58,188	"Storm of the Century", "No-Name Storm" (Line of storms over the Gulf of Mexico blew in a 7-foot storm surge near St. Pete Beach); on the Saffir-Simpson scale for hurricane strength, it equated to a category 3 hurricane based on storm surge and minimum	Storm of the Century 1993
520653	58897	125139	1993-03-13	\$74,803	"Storm of the Century", "No-Name Storm" (Line of storms over the Gulf of Mexico blew in a 7-foot storm surge near St. Pete Beach); on the Saffir-Simpson scale for hurricane strength, it equated to a category 3 hurricane based on storm surge and minimum	Storm of the Century 1993
520684	44916	125139	1993-03-13	\$9,780	"Storm of the Century", "No-Name Storm" (Line of storms over the Gulf of Mexico blew in a 7-foot storm surge near St. Pete Beach); on the Saffir-Simpson scale for hurricane strength, it equated to a category 3 hurricane based on storm surge and minimum	Storm of the Century 1993

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521116	58465	125139	1993-03-13	\$25,073	"Storm of the Century", "No-Name Storm" (Line of storms over the Gulf of Mexico blew in a 7-foot storm surge near St. Pete Beach); on the Saffir-Simpson scale for hurricane strength, it equated to a category 3 hurricane based on storm surge and minimum	Storm of the Century 1993
521122	302025	125139	1993-03-13	\$0	"Storm of the Century", "No-Name Storm" (Line of storms over the Gulf of Mexico blew in a 7-foot storm surge near St. Pete Beach); on the Saffir-Simpson scale for hurricane strength, it equated to a category 3 hurricane based on storm surge and minimum	Storm of the Century 1993
521127	86360	125139	1993-03-13	\$12,202	"Storm of the Century", "No-Name Storm" (Line of storms over the Gulf of Mexico blew in a 7-foot storm surge near St. Pete Beach); on the Saffir-Simpson scale for hurricane strength, it equated to a category 3 hurricane based on storm surge and minimum	Storm of the Century 1993
521129	21810	125139	1993-03-13	\$13,968	"Storm of the Century", "No-Name Storm" (Line of storms over the Gulf of Mexico blew in a 7-foot storm surge near St. Pete Beach); on the Saffir-Simpson scale for hurricane strength, it equated to a category 3 hurricane based on storm surge and minimum	Storm of the Century 1993
521434	28169	125139	1993-03-13	\$44,976	"Storm of the Century", "No-Name Storm" (Line of storms over the Gulf of Mexico blew in a 7-foot storm surge near St. Pete Beach); on the Saffir-Simpson scale for hurricane strength, it equated to a category 3 hurricane based on storm surge and minimum	Storm of the Century 1993
521457	104869	125139	1993-03-13	\$39,400	"Storm of the Century", "No-Name Storm" (Line of storms over the Gulf of Mexico blew in a 7-foot storm surge near St. Pete Beach); on the Saffir-Simpson scale for hurricane strength, it equated to a category 3 hurricane based on storm surge and minimum	Storm of the Century 1993
521217	164201	125139	1994-10-26	\$1,846	Rainfall Autumn 1994 0.70 inches of rain reported in St. Petersburg.	
514698	81307	125139	1995-06-24	\$0	Heavy Rainfall Summer 1995 8+ inches of rain reported in parts of Pinellas County over two day period.	
519930	81307	125139	1995-06-24	\$5,880	Heavy Rainfall Summer 1995 8+ inches of rain reported in parts of Pinellas County over two day period.	
507321	81307	125139	1995-06-25	\$2,312	Heavy Rainfall Summer 1995 8+ inches of rain reported in parts of Pinellas County over two day period.	
507358	58869	125139	1995-06-25	\$28,366	Heavy Rainfall Summer 1995 8+ inches of rain reported in parts of Pinellas County over two day period.	
516738	74999	125139	1995-07-13	\$1,744	Tornado Summer 1995 High winds associated with severe weather.	
500177	302025	125139	1996-10-07	\$20,083	Tropical Storm Josephine Autumn 1996 City of Gulfport reported over 3 inches; Nearly 1,400 dwellings in Pinellas County were affected by Tropical Storm Josephine's storm surge.	Tropical Storm Josephine 1996
500183	302025	125139	1996-10-07	\$3,292	Tropical Storm Josephine Autumn 1996 City of Gulfport reported over 3 inches; Nearly 1,400 dwellings in Pinellas County were affected by Tropical Storm Josephine's storm surge.	Tropical Storm Josephine 1996
500187	302025	125139	1996-10-07	\$5,500	Tropical Storm Josephine Autumn 1996 City of Gulfport reported over 3 inches; Nearly 1,400 dwellings in Pinellas County were affected by Tropical Storm Josephine's storm surge.	Tropical Storm Josephine 1996



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500188	302025	125139	1996-10-07	\$0	Tropical Storm Josephine Autumn 1996 City of Gulfport reported over 3 inches; Nearly 1,400 dwellings in Pinellas County were affected by Tropical Storm Josephine's storm surge.	Tropical Storm Josephine 1996
500189	302025	125139	1996-10-07	\$0	Tropical Storm Josephine Autumn 1996 City of Gulfport reported over 3 inches; Nearly 1,400 dwellings in Pinellas County were affected by Tropical Storm Josephine's storm surge.	Tropical Storm Josephine 1996
500190	302025	125139	1996-10-07	\$0	Tropical Storm Josephine Autumn 1996 City of Gulfport reported over 3 inches; Nearly 1,400 dwellings in Pinellas County were affected by Tropical Storm Josephine's storm surge.	Tropical Storm Josephine 1996
500191	302025	125139	1996-10-07	\$0	Tropical Storm Josephine Autumn 1996 City of Gulfport reported over 3 inches; Nearly 1,400 dwellings in Pinellas County were affected by Tropical Storm Josephine's storm surge.	Tropical Storm Josephine 1996
500620	136132	125139	1996-10-07	\$39,984	Tropical Storm Josephine Autumn 1996 City of Gulfport reported over 3 inches; Nearly 1,400 dwellings in Pinellas County were affected by Tropical Storm Josephine's storm surge.	Tropical Storm Josephine 1996
502884	99706	125139	1996-10-07	\$12,549	Tropical Storm Josephine Autumn 1996 City of Gulfport reported over 3 inches; Nearly 1,400 dwellings in Pinellas County were affected by Tropical Storm Josephine's storm surge.	Tropical Storm Josephine 1996
509423	58901	125139	1996-10-07	\$238	Tropical Storm Josephine Autumn 1996 City of Gulfport reported over 3 inches; Nearly 1,400 dwellings in Pinellas County were affected by Tropical Storm Josephine's storm surge.	Tropical Storm Josephine 1996
509893	58897	125139	1996-10-07	\$833	Tropical Storm Josephine Autumn 1996 City of Gulfport reported over 3 inches; Nearly 1,400 dwellings in Pinellas County were affected by Tropical Storm Josephine's storm surge.	Tropical Storm Josephine 1996
509894	40595	125139	1996-10-07	\$11,927	Tropical Storm Josephine Autumn 1996 City of Gulfport reported over 3 inches; Nearly 1,400 dwellings in Pinellas County were affected by Tropical Storm Josephine's storm surge.	Tropical Storm Josephine 1996
509964	86938	125139	1996-10-07	\$19,514	Tropical Storm Josephine Autumn 1996 City of Gulfport reported over 3 inches; Nearly 1,400 dwellings in Pinellas County were affected by Tropical Storm Josephine's storm surge.	Tropical Storm Josephine 1996
510038	103425	125139	1996-10-07	\$3,050	Tropical Storm Josephine Autumn 1996 City of Gulfport reported over 3 inches; Nearly 1,400 dwellings in Pinellas County were affected by Tropical Storm Josephine's storm surge.	Tropical Storm Josephine 1996
510148	86360	125139	1996-10-07	\$2,241	Tropical Storm Josephine Autumn 1996 City of Gulfport reported over 3 inches; Nearly 1,400 dwellings in Pinellas County were affected by Tropical Storm Josephine's storm surge.	Tropical Storm Josephine 1996
510289	83096	125139	1996-10-07	\$3,223	Tropical Storm Josephine Autumn 1996 City of Gulfport reported over 3 inches; Nearly 1,400 dwellings in Pinellas County were affected by Tropical Storm Josephine's storm surge.	Tropical Storm Josephine 1996
511682	52516	125139	1996-10-07	\$32,465	Tropical Storm Josephine Autumn 1996 City of Gulfport reported over 3 inches; Nearly 1,400 dwellings in Pinellas County were affected by Tropical Storm Josephine's storm surge.	Tropical Storm Josephine 1996
513087	85585	125139	1996-10-07	\$55,700	Tropical Storm Josephine Autumn 1996 City of Gulfport reported over 3 inches; Nearly 1,400 dwellings in Pinellas County were affected by Tropical Storm Josephine's storm surge.	Tropical Storm Josephine 1996

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513159	80756	125139	1996-10-07	\$26,036	Tropical Storm Josephine Autumn 1996 City of Gulfport reported over 3 inches; Nearly 1,400 dwellings in Pinellas County were affected by Tropical Storm Josephine's storm surge.	Tropical Storm Josephine 1996
513902	58461	125139	1996-10-07	\$20,946	Tropical Storm Josephine Autumn 1996 City of Gulfport reported over 3 inches; Nearly 1,400 dwellings in Pinellas County were affected by Tropical Storm Josephine's storm surge.	Tropical Storm Josephine 1996
514035	302025	125139	1996-10-07	\$2,300	Tropical Storm Josephine Autumn 1996 City of Gulfport reported over 3 inches; Nearly 1,400 dwellings in Pinellas County were affected by Tropical Storm Josephine's storm surge.	Tropical Storm Josephine 1996
514673	86361	125139	1996-10-07	\$1,303	Tropical Storm Josephine Autumn 1996 City of Gulfport reported over 3 inches; Nearly 1,400 dwellings in Pinellas County were affected by Tropical Storm Josephine's storm surge.	Tropical Storm Josephine 1996
514686	302025	125139	1996-10-07	\$2,980	Tropical Storm Josephine Autumn 1996 City of Gulfport reported over 3 inches; Nearly 1,400 dwellings in Pinellas County were affected by Tropical Storm Josephine's storm surge.	Tropical Storm Josephine 1996
514704	104879	125139	1996-10-07	\$11,439	Tropical Storm Josephine Autumn 1996 City of Gulfport reported over 3 inches; Nearly 1,400 dwellings in Pinellas County were affected by Tropical Storm Josephine's storm surge.	Tropical Storm Josephine 1996
514729	302025	125139	1996-10-07	\$1,904	Tropical Storm Josephine Autumn 1996 City of Gulfport reported over 3 inches; Nearly 1,400 dwellings in Pinellas County were affected by Tropical Storm Josephine's storm surge.	Tropical Storm Josephine 1996
515358	28169	125139	1996-10-07	\$44,819	Tropical Storm Josephine Autumn 1996 City of Gulfport reported over 3 inches; Nearly 1,400 dwellings in Pinellas County were affected by Tropical Storm Josephine's storm surge.	Tropical Storm Josephine 1996
516608	302025	125139	1996-10-07	\$4,220	Tropical Storm Josephine Autumn 1996 City of Gulfport reported over 3 inches; Nearly 1,400 dwellings in Pinellas County were affected by Tropical Storm Josephine's storm surge.	Tropical Storm Josephine 1996
519605	84308	125139	1996-10-07	\$18,813	Tropical Storm Josephine Autumn 1996 City of Gulfport reported over 3 inches; Nearly 1,400 dwellings in Pinellas County were affected by Tropical Storm Josephine's storm surge.	Tropical Storm Josephine 1996
519660	84312	125139	1996-10-07	\$2,115	Tropical Storm Josephine Autumn 1996 City of Gulfport reported over 3 inches; Nearly 1,400 dwellings in Pinellas County were affected by Tropical Storm Josephine's storm surge.	Tropical Storm Josephine 1996
520209	302025	125139	1996-10-07	\$9,154	Tropical Storm Josephine Autumn 1996 City of Gulfport reported over 3 inches; Nearly 1,400 dwellings in Pinellas County were affected by Tropical Storm Josephine's storm surge.	Tropical Storm Josephine 1996
520213	302025	125139	1996-10-07	\$23,337	Tropical Storm Josephine Autumn 1996 City of Gulfport reported over 3 inches; Nearly 1,400 dwellings in Pinellas County were affected by Tropical Storm Josephine's storm surge.	Tropical Storm Josephine 1996
520283	302025	125139	1996-10-07	\$5,500	Tropical Storm Josephine Autumn 1996 City of Gulfport reported over 3 inches; Nearly 1,400 dwellings in Pinellas County were affected by Tropical Storm Josephine's storm surge.	Tropical Storm Josephine 1996
520284	302025	125139	1996-10-07	\$596	Tropical Storm Josephine Autumn 1996 City of Gulfport reported over 3 inches; Nearly 1,400 dwellings in Pinellas County were affected by Tropical Storm Josephine's storm surge.	Tropical Storm Josephine 1996

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520510	13762	125139	1996-10-07	\$17,877	Tropical Storm Josephine Autumn 1996 City of Gulfport reported over 3 inches; Nearly 1,400 dwellings in Pinellas County were affected by Tropical Storm Josephine's storm surge.	Tropical Storm Josephine 1996
520848	10933	125139	1996-10-07	\$22,170	Tropical Storm Josephine Autumn 1996 City of Gulfport reported over 3 inches; Nearly 1,400 dwellings in Pinellas County were affected by Tropical Storm Josephine's storm surge.	Tropical Storm Josephine 1996
520868	302025	125139	1996-10-07	\$5,308	Tropical Storm Josephine Autumn 1996 City of Gulfport reported over 3 inches; Nearly 1,400 dwellings in Pinellas County were affected by Tropical Storm Josephine's storm surge.	Tropical Storm Josephine 1996
520907	302025	125139	1996-10-07	\$6,267	Tropical Storm Josephine Autumn 1996 City of Gulfport reported over 3 inches; Nearly 1,400 dwellings in Pinellas County were affected by Tropical Storm Josephine's storm surge.	Tropical Storm Josephine 1996
521235	58465	125139	1996-10-07	\$33,033	Tropical Storm Josephine Autumn 1996 City of Gulfport reported over 3 inches; Nearly 1,400 dwellings in Pinellas County were affected by Tropical Storm Josephine's storm surge.	Tropical Storm Josephine 1996
507359	58869	125139	1996-10-08	\$7,633	Tropical Storm Josephine Autumn 1996 City of Gulfport reported over 3 inches; Nearly 1,400 dwellings in Pinellas County were affected by Tropical Storm Josephine's storm surge.	Tropical Storm Josephine 1996
517287	81758	125139	1996-10-08	\$4,519	Tropical Storm Josephine Autumn 1996 City of Gulfport reported over 3 inches; Nearly 1,400 dwellings in Pinellas County were affected by Tropical Storm Josephine's storm surge.	Tropical Storm Josephine 1996
517330	58478	125139	1996-10-08	\$29,200	Tropical Storm Josephine Autumn 1996 City of Gulfport reported over 3 inches; Nearly 1,400 dwellings in Pinellas County were affected by Tropical Storm Josephine's storm surge.	Tropical Storm Josephine 1996
517342	296863	125139	1996-10-08	\$40,710	Tropical Storm Josephine Autumn 1996 City of Gulfport reported over 3 inches; Nearly 1,400 dwellings in Pinellas County were affected by Tropical Storm Josephine's storm surge.	Tropical Storm Josephine 1996
517419	300831	125139	1996-10-08	\$999	Tropical Storm Josephine Autumn 1996 City of Gulfport reported over 3 inches; Nearly 1,400 dwellings in Pinellas County were affected by Tropical Storm Josephine's storm surge.	Tropical Storm Josephine 1996
517423	58898	125139	1996-10-08	\$16,031	Tropical Storm Josephine Autumn 1996 City of Gulfport reported over 3 inches; Nearly 1,400 dwellings in Pinellas County were affected by Tropical Storm Josephine's storm surge.	Tropical Storm Josephine 1996
517664	58477	125139	1996-10-08	\$4,447	Tropical Storm Josephine Autumn 1996 City of Gulfport reported over 3 inches; Nearly 1,400 dwellings in Pinellas County were affected by Tropical Storm Josephine's storm surge.	Tropical Storm Josephine 1996
517815	86364	125139	1996-10-08	\$105,773	Tropical Storm Josephine Autumn 1996 City of Gulfport reported over 3 inches; Nearly 1,400 dwellings in Pinellas County were affected by Tropical Storm Josephine's storm surge.	Tropical Storm Josephine 1996
517827	21810	125139	1996-10-08	\$4,866	Tropical Storm Josephine Autumn 1996 City of Gulfport reported over 3 inches; Nearly 1,400 dwellings in Pinellas County were affected by Tropical Storm Josephine's storm surge.	Tropical Storm Josephine 1996
517866	83096	125139	1996-10-08	\$20,547	Tropical Storm Josephine Autumn 1996 City of Gulfport reported over 3 inches; Nearly 1,400 dwellings in Pinellas County were affected by Tropical Storm Josephine's storm surge.	Tropical Storm Josephine 1996

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517974	58462	125139	1996-10-08	\$3,573	Tropical Storm Josephine Autumn 1996 City of Gulfport reported over 3 inches; Nearly 1,400 dwellings in Pinellas County were affected by Tropical Storm Josephine's storm surge.	Tropical Storm Josephine 1996
518038	304104	125139	1996-10-08	\$37,156	Tropical Storm Josephine Autumn 1996 City of Gulfport reported over 3 inches; Nearly 1,400 dwellings in Pinellas County were affected by Tropical Storm Josephine's storm surge.	Tropical Storm Josephine 1996
518069	101663	125139	1996-10-08	\$797	Tropical Storm Josephine Autumn 1996 City of Gulfport reported over 3 inches; Nearly 1,400 dwellings in Pinellas County were affected by Tropical Storm Josephine's storm surge.	Tropical Storm Josephine 1996
518101	105457	125139	1996-10-08	\$1,605	Tropical Storm Josephine Autumn 1996 City of Gulfport reported over 3 inches; Nearly 1,400 dwellings in Pinellas County were affected by Tropical Storm Josephine's storm surge.	Tropical Storm Josephine 1996
520060	302025	125139	1996-10-08	\$3,436	Tropical Storm Josephine Autumn 1996 City of Gulfport reported over 3 inches; Nearly 1,400 dwellings in Pinellas County were affected by Tropical Storm Josephine's storm surge.	Tropical Storm Josephine 1996
510588	118164	125139	1997-04-26	\$1,732	Heavy Rainfall Spring 1997 5.08 inches of rain reported in St. Petersburg; 1.75 inches of rain reported in Tarpon Springs.	
509764	93481	125139	1997-07-30	\$4,229	Unknown Summer 1997 07/1997 Countywide rainfall total 7.8 inches (Hurricane Danny 1997 Outer Bands)	Hurricane Danny 1997 Outer Bands
503126	81307	125139	1997-09-26	\$1,354	Heavy Rainfall Autumn 1997 30 hrs; total 8-14 inches	
507322	81307	125139	1997-09-26	\$0	Heavy Rainfall Autumn 1997 30 hrs; total 8-14 inches	
521269	104417	125139	1997-09-27	\$2,051	Heavy Rainfall Autumn 1997 30 hrs; total 8-14 inches	
507360	58869	125139	1997-09-29	\$28,820	Heavy Rainfall Autumn 1997 30 hrs; total 8-14 inches	
503145	105465	125139	1997-11-01	\$0	Heavy Rainfall Autumn 1997 Claim not paid; Four to six inches of rain caused localized flooding of streets over the Tampa/St. Pete metropolitan areas	
507323	81307	125139	1997-12-27	\$915	Heavy Rainfall Winter 1997-98 5.62 inches of rain reported in St. Petersburg; 4.75 inches of rain reported in Gulfport; 4.02 inches of rain reported in Tarpon Springs; Localized flooding up to 4 feet occurred.	
507361	58869	125139	1997-12-27	\$24,549	Heavy Rainfall Winter 1997-98 5.62 inches of rain reported in St. Petersburg; 4.75 inches of rain reported in Gulfport; 4.02 inches of rain reported in Tarpon Springs; Localized flooding up to 4 feet occurred.	
510279	123920	125139	1997-12-27	\$4,356	Heavy Rainfall Winter 1997-98 5.62 inches of rain reported in St. Petersburg; 4.75 inches of rain reported in Gulfport; 4.02 inches of rain reported in Tarpon Springs; Localized flooding up to 4 feet occurred.	
520803	81307	125139	1997-12-30	\$1,336	Heavy Rainfall Winter 1997-98 5.62 inches of rain reported in St. Petersburg; 4.75 inches of rain reported in Gulfport; 4.02 inches of rain reported in Tarpon Springs; Localized flooding up to 4 feet occurred.	
509765	93481	125139	1998-07-10	\$4,002	Heavy Rainfall Summer 1998 Six to eight inches of heavy rain in less than three hours caused localized flooding of roadways and low lying areas from Clearwater to Dunedin	
517424	58898	125139	1998-11-29	\$0	Unknown Autumn 1998 Claim not paid; 11/1998 Countywide rainfall total 1.52 inches	
518195	58898	125139	1998-12-29	\$5,272	Unknown Winter 1998-99 12/1998 Countywide rainfall total 0.91 inches	

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521236	58465	125139	1999-01-01	\$27,567	Storm Surge Winter 1998-99 1.30 inches of rain reported in St. Petersburg; 1.22 inches of rain reported in Gulfport; 1.22 inches of rain reported in Tarpon Springs; Storm surge, enhanced by a fast moving squall-line, produced tides of 3 to 4 feet above a	Storm Surge (3-4 ft)
502885	99706	125139	1999-01-02	\$19,041	Storm Surge Winter 1998-99 1.30 inches of rain reported in St. Petersburg; 1.22 inches of rain reported in Gulfport; 1.22 inches of rain reported in Tarpon Springs; Storm surge, enhanced by a fast moving squall-line, produced tides of 3 to 4 feet above a	Storm Surge (3-4 ft)
509895	40595	125139	1999-01-02	\$2,121	Storm Surge Winter 1998-99 1.30 inches of rain reported in St. Petersburg; 1.22 inches of rain reported in Gulfport; 1.22 inches of rain reported in Tarpon Springs; Storm surge, enhanced by a fast moving squall-line, produced tides of 3 to 4 feet above a	Storm Surge (3-4 ft)
509965	86938	125139	1999-01-02	\$10,212	Storm Surge Winter 1998-99 1.30 inches of rain reported in St. Petersburg; 1.22 inches of rain reported in Gulfport; 1.22 inches of rain reported in Tarpon Springs; Storm surge, enhanced by a fast moving squall-line, produced tides of 3 to 4 feet above a	Storm Surge (3-4 ft)
510012	97759	125139	1999-01-02	\$15,096	Storm Surge Winter 1998-99 1.30 inches of rain reported in St. Petersburg; 1.22 inches of rain reported in Gulfport; 1.22 inches of rain reported in Tarpon Springs; Storm surge, enhanced by a fast moving squall-line, produced tides of 3 to 4 feet above a	Storm Surge (3-4 ft)
510021	99703	125139	1999-01-02	\$16,521	Storm Surge Winter 1998-99 1.30 inches of rain reported in St. Petersburg; 1.22 inches of rain reported in Gulfport; 1.22 inches of rain reported in Tarpon Springs; Storm surge, enhanced by a fast moving squall-line, produced tides of 3 to 4 feet above a	Storm Surge (3-4 ft)
510039	103425	125139	1999-01-02	\$2,598	Storm Surge Winter 1998-99 1.30 inches of rain reported in St. Petersburg; 1.22 inches of rain reported in Gulfport; 1.22 inches of rain reported in Tarpon Springs; Storm surge, enhanced by a fast moving squall-line, produced tides of 3 to 4 feet above a	Storm Surge (3-4 ft)
510244	103431	125139	1999-01-02	\$1,628	Storm Surge Winter 1998-99 1.30 inches of rain reported in St. Petersburg; 1.22 inches of rain reported in Gulfport; 1.22 inches of rain reported in Tarpon Springs; Storm surge, enhanced by a fast moving squall-line, produced tides of 3 to 4 feet above a	Storm Surge (3-4 ft)
510290	83096	125139	1999-01-02	\$3,151	Storm Surge Winter 1998-99 1.30 inches of rain reported in St. Petersburg; 1.22 inches of rain reported in Gulfport; 1.22 inches of rain reported in Tarpon Springs; Storm surge, enhanced by a fast moving squall-line, produced tides of 3 to 4 feet above a	Storm Surge (3-4 ft)
513160	80756	125139	1999-01-02	\$8,629	Storm Surge Winter 1998-99 1.30 inches of rain reported in St. Petersburg; 1.22 inches of rain reported in Gulfport; 1.22 inches of rain reported in Tarpon Springs; Storm surge, enhanced by a fast moving squall-line, produced tides of 3 to 4 feet above a	Storm Surge (3-4 ft)
513305	58897	125139	1999-01-02	\$15,701	Storm Surge Winter 1998-99 1.30 inches of rain reported in St. Petersburg; 1.22 inches of rain reported in Gulfport; 1.22 inches of rain reported in Tarpon Springs; Storm surge, enhanced by a fast moving squall-line, produced tides of 3 to 4 feet above a	Storm Surge (3-4 ft)

PC_UID	RL Number	Community	Claim Date	Total_Prem	Weather_Review_2022	Weather_Synopsis
513318	10933	125139	1999-01-02	\$58,976	Storm Surge Winter 1998-99 1.30 inches of rain reported in St. Petersburg; 1.22 inches of rain reported in Gulfport; 1.22 inches of rain reported in Tarpon Springs; Storm surge, enhanced by a fast moving squall-line, produced tides of 3 to 4 feet above a	Storm Surge (3-4 ft)
514579	86360	125139	1999-01-02	\$3,201	Storm Surge Winter 1998-99 1.30 inches of rain reported in St. Petersburg; 1.22 inches of rain reported in Gulfport; 1.22 inches of rain reported in Tarpon Springs; Storm surge, enhanced by a fast moving squall-line, produced tides of 3 to 4 feet above a	Storm Surge (3-4 ft)
514580	13762	125139	1999-01-02	\$66,770	Storm Surge Winter 1998-99 1.30 inches of rain reported in St. Petersburg; 1.22 inches of rain reported in Gulfport; 1.22 inches of rain reported in Tarpon Springs; Storm surge, enhanced by a fast moving squall-line, produced tides of 3 to 4 feet above a	Storm Surge (3-4 ft)
515359	28169	125139	1999-01-02	\$75,077	Storm Surge Winter 1998-99 1.30 inches of rain reported in St. Petersburg; 1.22 inches of rain reported in Gulfport; 1.22 inches of rain reported in Tarpon Springs; Storm surge, enhanced by a fast moving squall-line, produced tides of 3 to 4 feet above a	Storm Surge (3-4 ft)
516478	86361	125139	1999-01-02	\$6,540	Storm Surge Winter 1998-99 1.30 inches of rain reported in St. Petersburg; 1.22 inches of rain reported in Gulfport; 1.22 inches of rain reported in Tarpon Springs; Storm surge, enhanced by a fast moving squall-line, produced tides of 3 to 4 feet above a	Storm Surge (3-4 ft)
516479	105457	125139	1999-01-02	\$2,487	Storm Surge Winter 1998-99 1.30 inches of rain reported in St. Petersburg; 1.22 inches of rain reported in Gulfport; 1.22 inches of rain reported in Tarpon Springs; Storm surge, enhanced by a fast moving squall-line, produced tides of 3 to 4 feet above a	Storm Surge (3-4 ft)
516510	58881	125139	1999-01-02	\$6,094	Storm Surge Winter 1998-99 1.30 inches of rain reported in St. Petersburg; 1.22 inches of rain reported in Gulfport; 1.22 inches of rain reported in Tarpon Springs; Storm surge, enhanced by a fast moving squall-line, produced tides of 3 to 4 feet above a	Storm Surge (3-4 ft)
516978	101391	125139	1999-01-02	\$19,285	Storm Surge Winter 1998-99 1.30 inches of rain reported in St. Petersburg; 1.22 inches of rain reported in Gulfport; 1.22 inches of rain reported in Tarpon Springs; Storm surge, enhanced by a fast moving squall-line, produced tides of 3 to 4 feet above a	Storm Surge (3-4 ft)
517006	101395	125139	1999-01-02	\$3,338	Storm Surge Winter 1998-99 1.30 inches of rain reported in St. Petersburg; 1.22 inches of rain reported in Gulfport; 1.22 inches of rain reported in Tarpon Springs; Storm surge, enhanced by a fast moving squall-line, produced tides of 3 to 4 feet above a	Storm Surge (3-4 ft)
517288	81758	125139	1999-01-02	\$10,810	Storm Surge Winter 1998-99 1.30 inches of rain reported in St. Petersburg; 1.22 inches of rain reported in Gulfport; 1.22 inches of rain reported in Tarpon Springs; Storm surge, enhanced by a fast moving squall-line, produced tides of 3 to 4 feet above a	Storm Surge (3-4 ft)
517331	58478	125139	1999-01-02	\$20,192	Storm Surge Winter 1998-99 1.30 inches of rain reported in St. Petersburg; 1.22 inches of rain reported in Gulfport; 1.22 inches of rain reported in Tarpon Springs; Storm surge, enhanced by a fast moving squall-line, produced tides of 3 to 4 feet above a	Storm Surge (3-4 ft)



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517816	86364	125139	1999-01-02	\$144,008	Storm Surge Winter 1998-99 1.30 inches of rain reported in St. Petersburg; 1.22 inches of rain reported in Gulfport; 1.22 inches of rain reported in Tarpon Springs; Storm surge, enhanced by a fast moving squall-line, produced tides of 3 to 4 feet above a	Storm Surge (3-4 ft)
517867	83096	125139	1999-01-02	\$29,676	Storm Surge Winter 1998-99 1.30 inches of rain reported in St. Petersburg; 1.22 inches of rain reported in Gulfport; 1.22 inches of rain reported in Tarpon Springs; Storm surge, enhanced by a fast moving squall-line, produced tides of 3 to 4 feet above a	Storm Surge (3-4 ft)
517975	58462	125139	1999-01-02	\$4,540	Storm Surge Winter 1998-99 1.30 inches of rain reported in St. Petersburg; 1.22 inches of rain reported in Gulfport; 1.22 inches of rain reported in Tarpon Springs; Storm surge, enhanced by a fast moving squall-line, produced tides of 3 to 4 feet above a	Storm Surge (3-4 ft)
518070	101663	125139	1999-01-02	\$3,242	Storm Surge Winter 1998-99 1.30 inches of rain reported in St. Petersburg; 1.22 inches of rain reported in Gulfport; 1.22 inches of rain reported in Tarpon Springs; Storm surge, enhanced by a fast moving squall-line, produced tides of 3 to 4 feet above a	Storm Surge (3-4 ft)
518236	101729	125139	1999-01-02	\$1,033	Storm Surge Winter 1998-99 1.30 inches of rain reported in St. Petersburg; 1.22 inches of rain reported in Gulfport; 1.22 inches of rain reported in Tarpon Springs; Storm surge, enhanced by a fast moving squall-line, produced tides of 3 to 4 feet above a	Storm Surge (3-4 ft)
518479	101742	125139	1999-01-02	\$3,706	Storm Surge Winter 1998-99 1.30 inches of rain reported in St. Petersburg; 1.22 inches of rain reported in Gulfport; 1.22 inches of rain reported in Tarpon Springs; Storm surge, enhanced by a fast moving squall-line, produced tides of 3 to 4 feet above a	Storm Surge (3-4 ft)
519118	13698	125139	1999-01-02	\$6,096	Storm Surge Winter 1998-99 1.30 inches of rain reported in St. Petersburg; 1.22 inches of rain reported in Gulfport; 1.22 inches of rain reported in Tarpon Springs; Storm surge, enhanced by a fast moving squall-line, produced tides of 3 to 4 feet above a	Storm Surge (3-4 ft)
519606	84308	125139	1999-01-02	\$2,143	Storm Surge Winter 1998-99 1.30 inches of rain reported in St. Petersburg; 1.22 inches of rain reported in Gulfport; 1.22 inches of rain reported in Tarpon Springs; Storm surge, enhanced by a fast moving squall-line, produced tides of 3 to 4 feet above a	Storm Surge (3-4 ft)
520614	58471	125139	1999-01-02	\$2,658	Storm Surge Winter 1998-99 1.30 inches of rain reported in St. Petersburg; 1.22 inches of rain reported in Gulfport; 1.22 inches of rain reported in Tarpon Springs; Storm surge, enhanced by a fast moving squall-line, produced tides of 3 to 4 feet above a	Storm Surge (3-4 ft)
520989	84312	125139	1999-01-02	\$3,569	Storm Surge Winter 1998-99 1.30 inches of rain reported in St. Petersburg; 1.22 inches of rain reported in Gulfport; 1.22 inches of rain reported in Tarpon Springs; Storm surge, enhanced by a fast moving squall-line, produced tides of 3 to 4 feet above a	Storm Surge (3-4 ft)
520990	84312	125139	1999-01-02	\$527	Storm Surge Winter 1998-99 1.30 inches of rain reported in St. Petersburg; 1.22 inches of rain reported in Gulfport; 1.22 inches of rain reported in Tarpon Springs; Storm surge, enhanced by a fast moving squall-line, produced tides of 3 to 4 feet above a	Storm Surge (3-4 ft)

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520998	52516	125139	1999-01-02	\$50,837	Storm Surge Winter 1998-99 1.30 inches of rain reported in St. Petersburg; 1.22 inches of rain reported in Gulfport; 1.22 inches of rain reported in Tarpon Springs; Storm surge, enhanced by a fast moving squall-line, produced tides of 3 to 4 feet above a	Storm Surge (3-4 ft)
521014	58461	125139	1999-01-02	\$15,930	Storm Surge Winter 1998-99 1.30 inches of rain reported in St. Petersburg; 1.22 inches of rain reported in Gulfport; 1.22 inches of rain reported in Tarpon Springs; Storm surge, enhanced by a fast moving squall-line, produced tides of 3 to 4 feet above a	Storm Surge (3-4 ft)
521130	21810	125139	1999-01-02	\$12,764	Storm Surge Winter 1998-99 1.30 inches of rain reported in St. Petersburg; 1.22 inches of rain reported in Gulfport; 1.22 inches of rain reported in Tarpon Springs; Storm surge, enhanced by a fast moving squall-line, produced tides of 3 to 4 feet above a	Storm Surge (3-4 ft)
521458	104869	125139	1999-01-02	\$3,090	Storm Surge Winter 1998-99 1.30 inches of rain reported in St. Petersburg; 1.22 inches of rain reported in Gulfport; 1.22 inches of rain reported in Tarpon Springs; Storm surge, enhanced by a fast moving squall-line, produced tides of 3 to 4 feet above a	Storm Surge (3-4 ft)
503146	105465	125139	1999-01-03	\$43,006	Storm Surge Winter 1998-99 1.30 inches of rain reported in St. Petersburg; 1.22 inches of rain reported in Gulfport; 1.22 inches of rain reported in Tarpon Springs; Storm surge, enhanced by a fast moving squall-line, produced tides of 3 to 4 feet above a	Storm Surge (3-4 ft)
509270	98248	125139	1999-01-03	\$5,678	Storm Surge Winter 1998-99 1.30 inches of rain reported in St. Petersburg; 1.22 inches of rain reported in Gulfport; 1.22 inches of rain reported in Tarpon Springs; Storm surge, enhanced by a fast moving squall-line, produced tides of 3 to 4 feet above a	Storm Surge (3-4 ft)
514705	104879	125139	1999-02-01	\$7,719	Rainfall Winter 1998-99 0.01 inches of rain recorded at St. Pete/Clearwater Int. Airport.	no storms documented
521270	104417	125139	1999-09-15	\$3,008	Rainfall Summer 1999 0.28 inches of rain recorded in Tarpon Springs. (Hurricane Floyd 1999 Outer Bands)	Hurricane Floyd 1999 Outer Bands
510589	118164	125139	2001-06-19	\$607	Rainfall Summer 2001 .7 inches reported in Dunedin and Pinellas Park (Tropical Storm Allison 2001 Outer Bands)	Tropical Storm Allison 2001 Outer Bands
514592	124449	125139	2001-06-30	\$6,506	Rainfall Summer 2001 0.75 inches of rain recorded in St. Petersburg.	
510590	118164	125139	2002-06-08	\$2,103	Heavy Rainfall Summer 2002 Heavy rainfall caused damage.	
500351	164018	125139	2003-06-22	\$7,227	Heavy Rainfall Summer 2003 3.73 inches recorded in St. Petersburg; 2.59 inches reported in Tarpon Springs.	
510280	123920	125139	2003-06-22	\$2,775	Heavy Rainfall Summer 2003 3.73 inches recorded in St. Petersburg; 2.59 inches reported in Tarpon Springs.	
510442	28080	125139	2003-06-23	\$15,774	Rainfall Summer 2003 Additional inch of rain on saturated ground.	
514593	124449	125139	2003-08-10	\$9,307	Rainfall Summer 2003 3.1 inches of rain near Pinellas Park; 2.3 incheas recorded near Dunedin; sustained rainfall for 72 hours	
514601	296863	125139	2004-09-04	\$6,058	Hurricane Frances Summer 2004 up to 5.1 inches reported near Dunedin; up to 2.9 inches reported near Pinellas Park	Hurricane Frances 2004
514736	124449	125139	2004-09-04	\$26,740	Hurricane Frances Summer 2004 up to 5.1 inches reported near Dunedin; up to 2.9 inches reported near Pinellas Park	Hurricane Frances 2004
500621	136132	125139	2004-09-05	\$32,731	Hurricane Frances Summer 2004 up to 5.1 inches reported near Dunedin; up to 2.9 inches reported near Pinellas Park	Hurricane Frances 2004

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503270	99703	125139	2004-09-05	\$0	Hurricane Frances Summer 2004 up to 5.1 inches reported near Dunedin; up to 2.9 inches reported near Pinellas Park	Hurricane Frances 2004
513161	80756	125139	2004-09-06	\$7,908	Hurricane Frances Summer 2004 up to 5.1 inches reported near Dunedin; up to 2.9 inches reported near Pinellas Park	Hurricane Frances 2004
521533	58869	125139	2004-09-06	\$49,102	Hurricane Frances Summer 2004 up to 5.1 inches reported near Dunedin; up to 2.9 inches reported near Pinellas Park	Hurricane Frances 2004
514650	164201	125139	2004-09-16	\$0	Storm Surge/Tide Summer 2004 Higher than usual tides due to Hurricane Ivan through eastern Gulf of Mexico.	Hurricane Ivan 2004 Storm Surge
514651	164201	125139	2004-09-26	\$8,737	Hurricane Jeanne Autumn 2004 3.75 inches of rain recorded near Dunedin; 4.5 inches of rain recorded in Pinellas Park	Hurricane Jeanne 2004
515178	199425	125139	2006-02-02	\$8,731	Heavy Rainfall Winter 2005-06 11.17 inches in Pinellas Park; 7.01 inches in Seminole	
500352	164018	125139	2006-02-03	\$9,065	Heavy Rainfall Winter 2005-06 11.17 inches in Pinellas Park; 7.01 inches in Seminole	
500565	10942	125139	2006-02-03	\$14,921	Heavy Rainfall Winter 2005-06 11.17 inches in Pinellas Park; 7.01 inches in Seminole	
510591	118164	125139	2006-02-03	\$7,787	Heavy Rainfall Winter 2005-06 11.17 inches in Pinellas Park; 7.01 inches in Seminole	
514652	164201	125139	2006-02-03	\$17,424	Heavy Rainfall Winter 2005-06 11.17 inches in Pinellas Park; 7.01 inches in Seminole	
515426	273708	125139	2006-02-03	\$29,426	Heavy Rainfall Winter 2005-06 11.17 inches in Pinellas Park; 7.01 inches in Seminole	
521528	58869	125139	2006-02-03	\$13,095	Heavy Rainfall Winter 2005-06 11.17 inches in Pinellas Park; 7.01 inches in Seminole	
521534	58869	125139	2006-02-03	\$78,175	Heavy Rainfall Winter 2005-06 11.17 inches in Pinellas Park; 7.01 inches in Seminole	
509491	187719	125139	2006-08-27	\$5,393	Hurricane Ernesto Summer 2006 0.28 inches of rain in Tarpon Spings associated with scattered thunderstorms.	Hurricane Ernesto 2006
514653	164201	125139	2006-09-03	\$4,236	Hurricane Ernesto Summer 2006 1.73 inches of rain recorded in St. Petersburg; 2.3 inches recorded in Dunedin	Hurricane Ernesto 2006
505625	299957	125139	2006-09-20	\$122,412	Heavy Rainfall Autumn 2006 1.73 inches of rain recorded in St. Petersburg; 2.3 inches recorded in Dunedin	
510391	250082	125139	2006-09-20	\$6,217	Heavy Rainfall Autumn 2006 1.73 inches of rain recorded in St. Petersburg; 2.3 inches recorded in Dunedin	
518612	196799	125139	2009-07-03	\$4,889	Rainfall Summer 2009 2.3 inches in Pinellas Park; 3.8 inches near Dunedin	
509492	187719	125139	2009-09-25	\$6,805	Severe Thunderstorms Autumn 2009 0.75 inches of rain reported in one hour in Seminole. St. Petersburg reported heavy thunderstorms and 1.22 inches rain.	
500204	197799	125139	2010-06-30	\$13,085	Rainfall Summer 2010 2.1 inches recorded in Dunedin (Hurricane Alex Outer Bands)	Hurricane Alex 2010 Outer Bands
518613	196799	125139	2010-08-26	\$1,566	Rainfall Summer 2010 0.7 inches of rain reported in Largo	
500205	197799	125139	2011-03-31	\$1,541	Prolonged Heavy Rains Spring 2011 As this system moved across northern Florida, the cold front pushed into the local area and another series of squall lines moved across the area through the day on March 31st. Several tornadoes and areas of damaging wind	

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500524	272788	125139	2011-04-03	\$8,882	Prolonged Heavy Rains Spring 2011 As this system moved across northern Florida, the cold front pushed into the local area and another series of squall lines moved across the area through the day on March 31st. Several tornadoes and areas of damaging wind	
521535	58869	125139	2011-06-26	\$21,853	Heavy Rainfall Summer 2011 4.5 inches of rain recorded in Pinellas Park.	
515179	199425	125139	2011-07-07	\$16,952	Rainfall Summer 2011 5+ inches of rain reported in parts of Pinellas County over two day period.	
521536	58869	125139	2011-07-08	\$15,744	Rainfall Summer 2011 5+ inches of rain reported in parts of Pinellas County over two day period.	
514947	299957	125139	2012-06-22	\$6,130	Tropical Storm Debby Summer 2012 11 iches of rain reported in Dunedin; 9 inches of rain reported in pinellas park	Tropical Storm Debby 2012
500098	243400	125139	2012-06-23	\$5,597	Tropical Storm Debby Summer 2012 11 iches of rain reported in Dunedin; 9 inches of rain reported in pinellas park	Tropical Storm Debby 2012
500622	136132	125139	2012-06-23	\$6,535	Tropical Storm Debby Summer 2012 11 iches of rain reported in Dunedin; 9 inches of rain reported in pinellas park	Tropical Storm Debby 2012
502919	253555	125139	2012-06-24	\$2,558	Tropical Storm Debby Summer 2012 11 iches of rain reported in Dunedin; 9 inches of rain reported in pinellas park	Tropical Storm Debby 2012
502934	243439	125139	2012-06-24	\$4,170	Tropical Storm Debby Summer 2012 11 iches of rain reported in Dunedin; 9 inches of rain reported in pinellas park	Tropical Storm Debby 2012
502936	243440	125139	2012-06-24	\$4,170	Tropical Storm Debby Summer 2012 11 iches of rain reported in Dunedin; 9 inches of rain reported in pinellas park	Tropical Storm Debby 2012
515175	242993	125139	2012-06-24	\$25,126	Tropical Storm Debby Summer 2012 11 iches of rain reported in Dunedin; 9 inches of rain reported in pinellas park	Tropical Storm Debby 2012
521470	302025	125139	2012-06-24	\$0	Tropical Storm Debby Summer 2012 11 iches of rain reported in Dunedin; 9 inches of rain reported in pinellas park	Tropical Storm Debby 2012
521529	58869	125139	2012-06-24	\$1,587	Tropical Storm Debby Summer 2012 11 iches of rain reported in Dunedin; 9 inches of rain reported in pinellas park	Tropical Storm Debby 2012
521537	58869	125139	2012-06-24	\$7,208	Tropical Storm Debby Summer 2012 11 iches of rain reported in Dunedin; 9 inches of rain reported in pinellas park	Tropical Storm Debby 2012
521693	231455	125139	2012-06-24	\$1,569	Tropical Storm Debby Summer 2012 11 iches of rain reported in Dunedin; 9 inches of rain reported in pinellas park	Tropical Storm Debby 2012
518562	213406	125139	2012-06-25	\$63,721	Tropical Storm Debby Summer 2012 11 iches of rain reported in Dunedin; 9 inches of rain reported in pinellas park	Tropical Storm Debby 2012
521668	237563	125139	2012-06-26	\$9,682	Tropical Storm Debby Summer 2012 11 iches of rain reported in Dunedin; 9 inches of rain reported in pinellas park	Tropical Storm Debby 2012
521694	231455	125139	2012-11-06	\$1,246	Light Rainfall Autum 2012 .14 inches of rain reported in Pinellas Park; .11 reported in Dunedin	
514328	187719	125139	2013-07-01	\$11,527	Sustained rainfall Summer 2013 06/30 - 07/08 between .2 inches and 1.75 inches of rain reported in Dunedin; max 2.75 inches reported in Pinellas Park.	
517057	213406	125139	2015-07-25	\$9,826	Sustained Rainfall Summer 2015 168 hrs; Saturated soils; max 2.1 inches in Pinellas Park; max 3.5 inches near Dunedin	
502935	243439	125139	2015-08-01	\$1,534	Low Pressure System Summer 2015 168hrs; Saturated soils max 2.5 inches in Pinellas park; 4.5 inches near Dunedin	
502937	243440	125139	2015-08-01	\$1,534	Low Pressure System Summer 2015 168hrs; Saturated soils max 2.5 inches in Pinellas park; 4.5 inches near Dunedin	

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500099	243400	125139	2015-08-03	\$2,806	Low Pressure System Summer 2015 168hrs; Saturated soils max 2.5 inches in Pinellas park; 4.5 inches near Dunedin	
515176	242993	125139	2015-08-04	\$11,537	Low Pressure System Summer 2015 168hrs; Saturated soils max 2.5 inches in Pinellas park; 4.5 inches near Dunedin	
521530	58869	125139	2016-06-07	\$0	Colin; St Pete gage reached 3.0ft NAVD	Tropical Storm Colin 2016
521600	58869	125139	2016-06-07	\$0	Colin; St Pete gage reached 3.0ft NAVD	Tropical Storm Colin 2016
502872	250082	125139	2016-07-21	\$41,195	Colin; St Pete gage reached 3.0ft NAVD	Tropical Storm Colin 2016
503027	277449	125139	2016-08-30	\$3,881	Hurricane Hermine; St Pete gage reached 3.4ft NAVD	Hurricane Hermine 2016
514091	277501	125139	2016-08-31	\$3,859	Hurricane Hermine; St Pete gage reached 3.4ft NAVD	Hurricane Hermine 2016
514473	123920	125139	2016-08-31	\$8,751	Hurricane Hermine; St Pete gage reached 3.4ft NAVD	Hurricane Hermine 2016
521531	58869	125139	2016-08-31	\$0	Hurricane Hermine; St Pete gage reached 3.4ft NAVD	Hurricane Hermine 2016
521601	58869	125139	2016-08-31	\$0	Hurricane Hermine; St Pete gage reached 3.4ft NAVD	Hurricane Hermine 2016
521700	123920	125139	2016-08-31	\$0	Hurricane Hermine; St Pete gage reached 3.4ft NAVD	Hurricane Hermine 2016
502920	253555	125139	2016-09-02	\$24,039	Hurricane Hermine; St Pete gage reached 3.4ft NAVD	Hurricane Hermine 2016
502951	84312	125139	2016-09-02	\$41,874	Hurricane Hermine; St Pete gage reached 3.4ft NAVD	Hurricane Hermine 2016
500525	272788	125139	2017-09-10	\$1,706	Hurricane Irma Summer 2017 3 inches reported in Pinellas Park; .4 inches recorded near Dunedin	Hurricane Irma 2017
515425	273708	125139	2017-09-11	\$111,060	Hurricane Irma Summer 2017 3 inches reported in Pinellas Park; .4 inches recorded near Dunedin	Hurricane Irma 2017
503028	277449	125139	2018-08-29	\$1,643	Heavy Rainfall Summer 2018 3.5 inches of rain reported near Pinellas Park; 2.75 incheas reported near Dunedin	
514092	277501	125139	2018-08-29	\$26,132	Heavy Rainfall Summer 2018 3.5 inches of rain reported near Pinellas Park; 2.75 incheas reported near Dunedin	
514329	187719	125139	2018-08-29	\$5,352	Heavy Rainfall Summer 2018 3.5 inches of rain reported near Pinellas Park; 2.75 incheas reported near Dunedin	