

Town of Apex Stormwater System Condition Assessment Project

OMB number: 1660-0072, Expiration date: 10/31/2021 [View burden statement](#)

Subapplicant information

Name of federal agency

FEMA

Type of submission

Application

TOWN OF APEX

73 HUNTER STREET

APEX, NC 27502 United States

State

UEI-EFT

DUNS #

EIN #

NC

NDRHHH8B3C85

097722102

566001166

Subapplicant type

Local Government

Is the subapplicant subject to review by Executive Order 12372 Process?

- Yes - This Pre-application/application was made available to the Executive Order 12372 Process for review on:

Enter date (MM/DD/YYYY)

10/18/2023

- No, Program is not covered by E.O. 12372.
- No, Program has not been selected by state for review.

Is the subapplicant delinquent on any federal debt?

- Yes
- No


Continue

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Contact information

Subrecipient Authorized Representative (SAR)

<p>Jacob Perry</p> <p>jacob.perry@apexnc.org</p>	<p>Primary phone 9192493324 Work</p>	<p>Mailing address</p>	<p> Delete</p>
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Add a SAR

Point(s) of contact

<p>MR Jacob T Perry Utility Engineer EI</p> <p>jacob.perry@apexnc.org</p>	<p>Primary phone 9192493324 Work</p> <p>Fax 9193877055</p>	<p>Additional phones 9199464394 Work</p>	<p>Mailing address 105-B Upchurch street Apex NC 27502</p>	<p> Edit</p>
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Add a point of contact

Continue

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Community

Please provide the following information. If the Congressional district number for your community does not display correctly, please contact your State NFIP coordinator.

Add Communities

Please find the community(ies) that will benefit from this mitigation activity by clicking on the Find communities button. If needed, modify the Congressional District number for each community by entering the updated number under the U.S. Congressional District column for that community. When finished, click the Continue button. NOTE: You should also notify your State NFIP coordinator so that the updated U.S. Congressional District number can be updated in the Community Information System (CIS) database.

 Find communities

Community name	County code	CID number	CRS community	CRS rating	U.S. Congressional District	
APEX, TOWN OF	183	370467	N		4	 Delete

Please provide any additional comments below (optional).

Attachments

 Attach a document

Maximum file size: 1 GB

Town of Apex Stormwater System Condition Assessment Project

The Town of Apex (Town) has been growing at an unprecedented rate over the last ten years with no signs of slowing. The Town is in the process of a multi-area study to analyze the condition of its municipal separate storm system (MS4). This includes culverts, drainage pipe, junction boxes, catch basins/inlets, outfalls, outlet protection infrastructures, etc. The investigation will encompass some pipe cleaning, closed circuit television (CCTV) surveying and data collection of the existing system. Using the survey and data collected, the Town will then strategize future capital improvement project's (CIPs) by prioritizing sections with the greatest need. These future CIP's will improve resiliency in the Town's MS4 in the coming years while optimally utilizing Town resources.

The Town of Apex has hired a consultant, McAdams, to perform an area 1 & area 2 investigative study on the Town's MS4. They are the only partner the Town of Apex will be working with for this project. This will cover a roughly 1.9 square miles of stormwater system assets within the Apex Peakway Boundary including Middle Creek, Beaver Creek, Big Branch, Swift Creek, and Williams Creek. The purpose is to find broken or underperforming components for future planning CIPs. This portion of the Town consists of mostly commercial business, but also includes a few smaller neighborhoods and single-family homes. It is estimated there are about 2,750 people living in these initial areas. The area of this study is located in an older portion of the Town which may have a higher likelihood of underperforming stormwater systems. Based on the findings of this study, the Town will evaluate if any nature-based solutions, such as the use of bioretention areas, would be appropriate to correct system shortcomings. In 2019 an Insurance Service Office (ISO) rating for the Town of Apex was performed. The Town's Building Code Effectiveness Grading Schedule (BCEGS) rating was identified as a 4 for one & two-Family Residential Properties and a 4 for Commercial and Industrial Properties.

The Town is requesting \$200,000 to fund this project. The total cost of both areas is estimated to be \$461,300. This will approximately cover 43.4% of the total project expenses. We have also been budgeted \$23,065 for subrecipient management costs (SRMC) by NC DPS. This savings will assist in covering future related CIP projects or further investigation of the Town's storm water system.

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Mitigation plan

Please provide your plan information below.

Is the Subapplicant entity that will benefit from the proposed activity covered by the current FEMA approved multi-hazard mitigation plan in compliance with 44 CFR Part 201?

Yes

Please provide plan detail

Plan name	Plan type	Plan approval date
Wake County Multi-Jurisdictional Hazard Mitigation Plan	Local Multijurisdictional Multi-Hazard Mitigation Plan	12/17/2019

 [Edit](#)

Proposed activity description

<https://www.apexnc.org/224/Hazard-Mitigation-Plan> The 2020 – 2025 update to the Wake County Multi-Jurisdictional Hazard Mitigation Plan was developed in a joint and cooperative manner by members of a Hazard Mitigation Planning Committee (HMPC) which included representatives of county and municipal departments, federal and state agencies, citizens, and other stakeholders. <https://www.wake.gov/departments-government/fire-services-emergency-management/emergency-management/county-emergency-plans>

No

Please provide any additional comments below (optional).

This is an initial project scoping to identify where there are current deficiencies in the Town of Apex’s storm water system. Once data is collected, the Town of Apex will have a clearer strategy for our mitigation plan.

Attachments

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Scope of work

The project Scope of Work (SOW) identifies the eligible activity, describes what will be accomplished and explains how the mitigation activity will be implemented. The mitigation activity must be described in sufficient detail to verify the cost estimate. All activities for which funding is requested must be identified in the SOW prior to the close of the application period. FEMA has different requirements for project, planning and management cost SOWs.

Subapplication title (include type of activity and location)

Town of Apex Stormwater System Condition Assessment Project

Activities

Primary activity type

Evaluate facilities to identify mitigation actions



Secondary activity type (Optional)

Select



Geographic areas description

This project scope will cover a roughly 1.9 square mile area of storm water system assets within the Apex Peakway Boundary including Middle Creek, Beaver Creek, Big Branch, Swift Creek, and Williams Creek.

Community lifelines

Primary community lifeline

Not applicable



Secondary community lifeline (Optional)

Select



Hazard sources

Primary hazard source

Flooding



Secondary hazard source (optional)

Select



How will the mitigation activity be implemented?

 Attach a document

Maximum file size: 1 GB

Filename	Date uploaded	Uploaded by	File size	Description	Action
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Continue

Town of Apex Stormwater System Condition Assessment Project







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Schedule

Specify the work schedule for the mitigation activities.

Add tasks to the schedule

Please include all tasks necessary to implement this mitigation activity; include descriptions and estimated time frames.

<p>Task Name Area 1</p>	<p>Start Month 9</p>	<p>Task Duration (in Months) 4 months</p> <p>Task Description Area 1 of the study will be in the Middle Creek Watershed boundary. Starting in September of 2023.</p>	<p> Edit</p> <p> Delete</p>
<p>Task Name Area 2</p>	<p>Start Month 3</p>	<p>Task Duration (in Months) 9 months</p> <p>Task Description The second area of study will cover the remaining basins in the Apex Peakway. The project start in April of 2024</p>	<p> Edit</p> <p> Delete</p>
<p>Task Name Contracting</p>	<p>Start Month 7</p>	<p>Task Duration (in Months) 2 months</p> <p>Task Description Sign contracting for work to be completed with McAdams for area 1 and area 2</p>	<p> Edit</p> <p> Delete</p>

+ Add a task

Estimate the total duration of your proposed activities (in months).

15

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Budget

Budget cost estimate and management cost (optional) should directly link to your scope of work and work schedule. You must add at least one item(s) greater than \$0 for your cost estimate. Once you have added item(s) for your cost estimate, you may then add the item(s) for management cost (optional). As necessary, please adjust your federal/non-federal cost shares and add the non-federal funding source(s) you are planning to use this project. Once you have completed this section, please click the Continue button at the bottom of this page to navigate to the next section.

Add budget cost types and item(s)

Click the Add cost type button below to add cost type cost estimate and then click the Add item(s) button to add the item(s) for the cost estimate. After adding items to your cost estimate, you may then select Add cost type button again to add management costs (optional) and applicable items.

Grand total: \$484,365.00

Budget type: Non construction

Cost type: Cost estimate

\$461,300.00

✕ [Delete this cost type](#)

Cost estimate is the line item(s) budget to support the scope of work for the execution and completion of the project. Be sure to include the cost associated with revisions/formal adoption. To add a line item, please click on the Add an item button. Click anywhere within each row or the arrow to edit or delete the line item(s).

+ Add an item

Cost Items

**Item: Stormwater System
Condition Assessment Area 2**

\$323,200.00

Cost type: Management cost

\$23,065.00

✘ Delete this cost type

Management cost (optional) is the line item(s) to support the scope of work for the execution and completion of the project. Be sure to include the cost associated with managing the project/initiative/activity. To add a line item, please click on the Add an item button. Click anywhere within each row or the arrow to edit or delete the line item(s). Management cost is optional. However, if you want to include Management cost to your budget, you must add at least one item greater than \$0 under the Management cost.

+ Add an item

Cost Items

▼

Item: Other **\$23,065.00**

✘ Delete this item

Item
 Other ▼

Quantity	Unit of measure	Unit price	Unit total
1	Each ▼	\$23,065.0	\$23,065.00

Budget class **Pre-award**

Other ▼

+ Add funding source

Funding source	Funding amount	% Non-federal share by source
▶ Funding source: Town of Apex	100.00%	\$261,300.00

Please provide any additional comments below (optional).

The management cost for this project is the 5% subrecipient management costs (SMRC) for this project.

Attachments

📎 Attach a document

Maximum file size: 1 GB

Filename	Date uploaded	Uploaded by	File size	Description	Action
📎 FEMA budget.docx	11/09/2023	jacob.perry@apexnc.org	40 KB		✖ Delete

Continue

Finally, when you make your entries in FEMA-Go, these are the amounts that are approved and should be entered.

Total Project Cost	Tot Fed Amt	FED SHARE	SRMC
461,300	\$223,065	200,000	23,065

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Cost-effectiveness

How was cost-effectiveness determined for this project?

Not applicable

Please explain why this project is not applicable.

Due to the nature of this study, the provided BCA toolkit did not represent the cost-effectiveness for this project well. Until McAdams and the Town of Apex has identified what deficiencies exist within this area of study it is difficult to determine what the future benefits will be.

Please provide any additional comments below (optional).

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Filename	Date uploaded	Uploaded by	File size	Description	Action
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Evaluation

Is the applicant participating in the Community Rating System (CRS)?

- Yes
- No

Is the applicant a Cooperating Technical Partner (CTP)?

- Yes
- No

Was this application generated from a previous FEMA HMA Advance Assistance or Project Scoping award or any other federal grant award, or the subapplicant is a past recipient of Building Resilient Infrastructure and Communities (BRIC) non-financial Direct Technical Assistance?

- Yes
- No

Has the applicant adopted building codes consistent with the international codes?

- Yes
- No

Have the applicant's building codes been assessed on the Building Code Effectiveness Grading Schedule (BCEGS)?

- Yes
- No

Select rating.

4



Describe involvement of partners to enhance the mitigation activity outcome.

The Town of Apex has hired a consultant, McAdams, to perform a area 1 & area 2 investigative study on the Town owned stormwater infrastructure. McAdams is a well establish engineering firm that has extensive knowledge in stormwater engineering in the Carolinas. There findings and recommendations will better help the Town in identifying areas of improvement. This will be the only partner the Town will

Additional comments (optional)

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Assurances and certifications

OMB number: 4040-0007, Expiration date: 02/28/2025 [View burden statement](#)

SF-424B: Assurances - Non-Construction Programs

OMB Number: 4040-0007

Expiration Date: 02/28/2025

Certain of these assurances may not be applicable to your project or program. If you have any questions, please contact the awarding agency. Further, certain Federal awarding agencies may require applicants to certify to additional assurances. If such is the case, you will be notified.

As the duly authorized representative of the applicant, I certify that the applicant:

1. Has the legal authority to apply for Federal assistance and the institutional, managerial and financial capability (including funds sufficient to pay the non-Federal share of project cost) to ensure proper planning, management and completion of the project described in this application.
2. Will give the awarding agency, the Comptroller General of the United States and, if appropriate, the State, through any authorized representative, access to and the right to examine all records, books, papers, or documents related to the award; and will establish a proper accounting system in accordance with generally accepted accounting standards or agency directives.
3. Will establish safeguards to prohibit employees from using their positions for a purpose that constitutes or presents the appearance of personal or organizational conflict of interest, or personal gain.
4. Will initiate and complete the work within the applicable time frame after receipt of approval of the awarding agency.
5. Will comply with the Intergovernmental Personnel Act of 1970 (42 U.S.C. §§4728-4763) relating to prescribed standards for merit systems for programs funded under one of the 19 statutes or regulations specified in Appendix A of OPM's Standards for a Merit System of Personnel Administration (5 C.F.R. 900, Subpart F).
6. Will comply with all Federal statutes relating to nondiscrimination. These include but are not limited to: (a) Title VI of the Civil Rights Act of 1964 (P.L. 88-352) which prohibits discrimination on the basis of race, color or national origin; (b) Title IX of the Education Amendments of 1972, as amended (20 U.S.C. §§1681-1683, and 1685-1686), which prohibits discrimination on the basis of sex; (c) Section 504 of the Rehabilitation Act of 1973, as amended (29 U.S.C. §794), which prohibits discrimination on the basis of handicaps; (d) the Age Discrimination Act of 1975, as amended (42 U.S.C. §§6101-6107), which prohibits discrimination on the basis of age; (e) the Drug Abuse Office and Treatment Act of 1972 (P.L. 92-255), as amended, relating to nondiscrimination on the basis of drug abuse; (f) the Comprehensive Alcohol Abuse and Alcoholism Prevention, Treatment and Rehabilitation Act of 1970 (P.L. 91-616), as amended, relating to nondiscrimination on the basis of alcohol abuse or alcoholism; (g) §§523 and 527 of the Public Health Service Act of 1912 (42 U.S.C. §§290 dd-3 and 290 ee- 3), as amended, relating to confidentiality of alcohol and drug abuse patient records; (h) Title

19. Will comply with the requirements of Section 106(g) of the Trafficking Victims Protection Act (TVPA) of 2000, as amended (22 U.S.C. 7104) which prohibits grant award recipients or a sub-recipient from (1) Engaging in severe forms of trafficking in persons during the period of time that the award is in effect (2) Procuring a commercial sex act during the period of time that the award is in effect or (3) Using forced labor in the performance of the award or subawards under the award.

SF-LLL: Disclosure of Lobbying Activities

OMB number: 4040-0013, Expiration date: 02/28/2025 [View burden statement](#)

Complete only if the applicant is required to do so by 44 C.F.R. part 18. Generally disclosure is required when applying for a grant of more than \$100,000 and if any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions. Further, the recipient shall file a disclosure form at the end of each calendar quarter in which there occurs any event described in 44 C.F.R. Â§ 18.110(c) that requires disclosure or that materially affects the accuracy of the information contained in any disclosure form previously filed by the applicant.

- The applicant is not currently required to submit the SF-LLL

Continue