



Regional Mitigation Program

Texas General Land Office
Community Development & Revitalization

Orange County Drainage District

2022-100192-RMP

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Regional Mitigation Program Application

General

Applicant Information

Applicant: Orange County Drainage District

County: Orange

Program: Regional Mitigation Program: SETRPC HUD MID

COG: South East Texas Regional Planning Commission (SETRPC)

Phone Number: (409) 745-3225

Address: 8081 Old US Highway 90, Orange, Texas 77630

Website: <https://ocddtx.com/>

Employer Identification Number (EIN): 741498746

Taxpayer Identification Numbers (TIN): 741498746

UEI (Unique Entity Identifier): JFCLN9M3UEG3

Data Universal Numbering System (DUNS): 078445343

SAM.gov Registration Expiration Date: 8/24/2023

Is the applicant an eligible subrecipient applying in conjunction with or on behalf of another entity (non-city) within the county? No

How much funding was the applicant allocated by the approved COG MOD? \$31,091,100.00

Is the applicant participating in the National Flood Insurance Program? Yes

Fiscal Year End Date (Month): September

Fiscal Year End Date (Day): 30

Application Contacts

Contact Role	Organization	First Name	Last Name	Title	Phone	Email
Engineer	LJA Engineering	Toby	Davis	Professional Engineer / Project Engineer	(409) 833-3363	tdavis@lja.com
Grant Administrator	Traylor & Associates	Melinda	Smith	Executive Vice President / Project	(903) 581-0500	melinda.smith@grtraylor.com

Contact Role	Organization	First Name	Last Name	Title	Phone	Email
				Manager		
Chief Elected Official	Orange County Drainage District	Brent	Peveto	President	(409) 745-3225	bpeveto@ocddtx.com
Primary Contact	Orange County Drainage District	Don	Carona	General Manager	(409) 745-3225	dcarona@ocddtx.com
Authorized Representative	Orange County Drainage District	Don	Carona	General Manager	(409) 745-3225	dcarona@ocddtx.com

SF-424 Questions

Applicant Type: Flood and Drainage District

Application Title: Tiger Creek Detention Pond

Is the applicant delinquent on any federal debt? Tiger Creek Detention Pond

Activities

Activity

DRGR Activity	Planned Budget Amount
Flood and Drainage Facilities	\$31,091,100.00

Project

Project: Project Title	Project: Project Type	Environment: What is the current status of the project?	Total Budget
Tiger Creek Detention Pond	Flood and Drainage	Not yet started	\$31,091,100.00

Budget Line Summary

Total Engineering over Total Construction: 12%

Total Admin + Environmental over Total Amount Requested: 5.55%

Allowable Fee Percentage Cap for Admin + Environmental: 6%

Program Budget Code	Planned/Requested Amount
Construction	\$26,219,732.00
Special Environmental	\$0.00
Planning	\$0.00
Environmental	\$300,000.00
Grant Administration	\$1,425,000.00
Engineering	\$3,146,368.00
Acquisition	\$0.00

Duplication of Benefits

FEMA Coverage

Did you receive any FEMA funding? No

Do you anticipate any FEMA funding? No

Was the proposed project eligible for FEMA? No

Is the budget in this application funding for the nonfederal share of a FEMA project? No

If yes, have funds been awarded?

If FEMA funds were received, explain why funds are needed above and beyond the FEMA funding:

Insurance Coverage

Did the applicant have insurance coverage on the proposed project? No

Name of Insurance Company:

Amount claimed/received for the project:

If a claim was not filed, please explain below:

Explain why funds are required above and beyond the insurance funding:

Other Funding

Has the applicant submitted a request to fund a part of or the whole project described in the application? No

Are local or other funds available to address the proposed project in whole or in part?

Have any other state and/or federal agencies been contacted concerning funding for the proposed project? No

Disclose source(s) and use(s) of non-CDBG-MIT funds (Each row is a funding source):

Fair Housing

What methods and criteria were used to prioritize the projects in the application, including affirmatively furthering fair housing? The Orange County Drainage District has sought to reduce flooding throughout Orange County through the construction of large-scale, regional projects that provide the most impact to all residents, including vulnerable populations. Historically, vulnerable populations are the most burdened by disaster level events, which have repeatedly devastated residents over the last couple of decades.

Following Hurricane Harvey and Tropical Storm Imelda, the District identified two priority projects deemed to provide the most benefit to the County - the Tiger Creek Detention Pond and the Relief Ditch Extension. Both projects are intended to capture and divert runoff and riverine flooding from the north to avoid flooding of residential neighborhoods. However, the Relief Ditch Extension is estimated to cost at least twice the available funds, so it was not considered a viable project under this program.

The District first examined the "hard data" and found that several overburdened populations exist within the beneficiary area. Nearly one in four residents is disabled, 13% of the population identifies as ethnic/minority (slightly higher than average for the County), and a significant number of households are occupied by elderly residents.

The District further assessed potential projects for effects on community features and found that the proposed Tiger Creek Detention Pond provides the greatest opportunity to reduce flooding in a predominantly low to moderate income area plagued by repetitive loss and injury during storm events. The project will mitigate the effects of future storms and ensure access to health care and other community resources. No effect will be had on public transportation as there is none currently in the area, but the project will ensure access to first responders and volunteers.

What are the identified protected classes, racially and ethnically concentrated areas, and concentrated areas of poverty that may be impacted by this project? Female led households, elderly populations, and disabled individuals are amongst the vulnerable populations expected to benefit from this project.

Overall, in comparison to state and national statistics, Orange County does not contain racially or ethnically concentrated areas. However, the proposed project area contains a higher concentration of Hispanic or Latino residents than most other areas of the County, particularly Tract 215.02 BGs 4 & 5.

Provide a meaningful analysis that describes how these identified populations may be impacted by this project. Construction of the detention pond will reduce flooding of homes, vehicles, and businesses within the Tiger Creek watershed, thereby reducing the burden of recovery on vulnerable populations in the area.

Nearly one in four residents has a disability (2019 5YR ACS). It is well documented that persons with disabilities are disproportionately impacted by flooding due to socioeconomic disparities. The construction of the detention pond will ensure access to support services by diverting stormwater from roads, reduce displacement by mitigating flood risks to homes, and reduce mental and physical stress caused by high-water rescues and other disaster related traumas.

Approximately one in six residents that will benefit from the project are considered elderly. Persons aged 65 and older face multiple age-related vulnerabilities during flood events. Limited

mobility, greater health care needs, and lower income affect the elderly's ability to prepare for and respond to disasters. The construction of the detention pond will decrease flow rates and store stormwater, buying the elderly population valuable time to evacuate or otherwise prepare for storms.

For each fair housing activity, provide a name and status. If the activity is Completed, enter the Date Initiated. If the activity is Planned, enter the To Be Completed By date:

Item	Name	Status	Date Initiated	To be completed by
Fair Housing Activity 1	Publish Fair Housing PSA on website	Planned		6/30/2023
Fair Housing Activity 2	Designating a Fair Housing Month	Planned		6/30/2023
Fair Housing Activity 3				
Fair Housing Activity 4				

Procurement

Have services been procured for Engineering, Grant Administration, or Environmental Services? Yes

Are there any persons/entities with a reportable financial interest to disclose? Yes

Vendor Type	Procurement Status	Vendor Name	Contact Phone	Contact Email
Engineering	Procured	LJA Engineering	(409) 833-3363	tdavis@lja.com
Grant Administration	In House			
Grant Administration	Procured	Traylor & Associates, Inc.	(903) 581-0500	melinda.smith@grtraylor.com
Environmental	Procured	Traylor & Associates, Inc.	(903) 581-0500	melinda.smith@grtraylor.com

Documents

Document Type	File Attachment (Text)
CDBG-MIT - Budget Justification of Retail Costs form (completed, signed, and sealed by a professional engineer or architect licensed to work in the State of Texas)	budget-justification-of-retail-costs (signed & sealed).pdf
CDBG Mitigation Viewer Export	Tiger Creek Detention Pond Screening Report.pdf
Environmental Exempt Form for planning and administrative activities	Environmental Review_Signed.pdf
SF-424 (completed and signed)	Tiger Creek_SF-424.pdf
Signed Applicant Certifications	Certification_Signed.pdf
Financial Interest Reports	FIR - Engineering.xlsx
Financial Interest Reports	FIR - Admin.xlsx
Scope of work information, maps, and other applicable documentation for each Local effort identified	OCDD_HMP_Plan_Update_Approved.pdf
LMISD data and/or CDBG-MIT Survey documentation	Survey Documentation - OCDD.pdf
Race/Ethnicity/Gender Calculator	re-calculator (9).xlsx
DP05 (ACS 5-year estimate)	ACSDP5Y2019.DP05-2022-11-29T171029.xlsx
Maps indicating latitude and longitude for proposed locations	Project Location Map with Coordinates.pdf
Single Audit or Annual Financial Statement	OCDDAudit2021.pdf
Current Printout of SAM.gov Registration	SAM registration - OCDD.pdf

Tiger Creek Detention Pond

Project Info

Project Information

DRGR Activity: Flood and Drainage Facilities

Project Type: Flood and Drainage

Project Title: Tiger Creek Detention Pond

Does this project include replacement or relocation of a facility (i.e., lift station, water treatment plant, etc.)? No

Provide a detailed description of the scope of work proposed. For proposed work involving a length of road, ditch, channel, etc., report the scope of the project in linear feet (lf): To mitigate loss of life and property during future events, the Orange County Drainage District proposes to build a 3,600 ac/ft capacity detention pond at the northern reaches of Tiger Creek. Construction shall consist of the excavation, embankment construction, and grading of approximately five million eight hundred eight thousand cubic yards (5,808,000 CY) of dirt, clearing and grubbing of four hundred fifty acres (450 AC) of land, four (4) water control features, four (4) sixty thousand gallon per minute pump units, one (1) intake structure and pump house, two hundred linear feet (200 l.f.) of sixty-inch (60") discharge piping, erosion protection at pump discharge, and all related appurtenances.

Average depth of excavation is expected to be nine (9) feet, with a depth of 15-16 feet along Tiger Creek and 4 feet at the eastern edge. The project footprint is 600 acres, yielding a functional pond of approximately 400 acres.

Water control and structural features include side flow spillways, water gates, and culverts to interconnect sections of the pond.

No acquisition is needed. Environmental mitigation is anticipated and further detailed under the environmental section herein.

Attention is called to the fact that current construction estimates are based on recent bids for similar work in the area and are relatively high due to labor and material shortages following the pandemic. Should construction costs decrease prior to the letting of the construction contract, the District hopes to expand the footprint of the proposed pond to include the acreage to the west of the proposed pond. The environmental review will include this alternate section, so the District has included the potential expansion on all maps.

Site: Project Site Title	Site: Street Address
Tiger Creek Detention Pond	N/A

Describe a plan for the long-term funding and management of the operations and maintenance of the project: The Orange County Drainage District will be responsible for the operation and maintenance of the detention pond and all equipment. As with all drainage

structures maintained by the District, the District will include operation and maintenance costs in their annual budget upon completion. Annual costs are estimated at \$10,000-\$15,000 per year.

Total proposed number of linear feet:

Total number of proposed public facilities: 1

Project Phase	Start Date	End Date	Length (in months)
Acquisition	1/1/2000	1/1/2000	0
Engineering Design	4/1/2023	5/1/2024	13
Environmental Review	4/30/2023	4/30/2024	12
Contract Closeout	5/1/2026	7/1/2026	2
Submit As-Builts/COCC/FWCR	3/1/2026	5/1/2026	2
Construction	9/1/2024	3/1/2026	18
Construction NTP	8/1/2024	9/1/2024	1
Contract Award	7/1/2024	8/1/2024	1
Bid Advertisement	5/1/2024	7/1/2024	2
Start-Up Documentation	4/1/2023	6/1/2023	2

National Objective

National Objective

Provide Total Number of Beneficiaries: 1,530

Provide number of LMI Beneficiaries 829

Percentage of LMI Beneficiaries: 54.18%

Is that applicant a HUD Exception Grantee? Yes

Census Tract	Block Group List (Text)
215	Group 3 ; Group 4 ; Group 5

Male: 693

Female: 837

Total: 1,530

Race	Hispanic Population	Non-Hispanic Population	Total Population
Black/African American	0	1	1
White and Black/African American	0	0	0
White and Asian	0	0	0
White and American Indian/Alaska Native	0	11	11
White	141	1,353	1,494
Some Other Race	10	0	10
Other multi racial	0	10	10
Native Hawaiian/Other Pacific Islander	0	0	0
Black/African American and American Indian/Alaska Native	0	0	0
American Indian/Alaska Native	0	4	4

Race	Hispanic Population	Non-Hispanic Population	Total Population
Asian	0	0	0

Which HUD national objective does the project meet? LMI

Describe activities that benefit low- and moderate-income people: To mitigate loss of life and property during future events, the Orange County Drainage District proposes to build a 3,600 ac/ft capacity detention pond at the northern reaches of Tiger Creek. Construction will consist of **excavation, pump units, an intake structure with pump house, discharge structure with 60 diameter piping, and all related appurtenances.**

These improvements will mitigate the risks of damages/loss of property and personal injury caused by flooding for 1,530 residents, 829 (or 54.18%) of which are of low to moderate income.

Method(s) used to determine the beneficiaries: LMI Area Benefit

What method was used for Beneficiary Identification? Surveys

Provide a brief description of the beneficiary identification method used to determine this national objective and upload supporting beneficiary maps, census data, and/or survey documents: The proposed project will reduce the risk of flooding to residents in areas surrounding and near the Tiger Creek watershed, east of FM 105 which is slightly elevated and acts as a barrier during flood events. The Drainage District performed a door-to-door household income survey of the identified beneficiary area and determined that 54.18% of the residents are of low to moderate income, thereby meeting the LMI Area Benefit NPO.

U.S. Congressional District #: 36

Texas Representative District #: 21

Texas Senate District #: 3

Environmental

What is the current status of the project? Not yet started

Will the assistance requested have any negative impact(s) or effect(s) on the environment? Yes

Is the proposed project likely to require an archaeological assessment? Yes

Is the proposed site(s) listed on the National Register of Historic Places? No

Is the project in a designated floodway or coastal high hazard area? Yes

Is the project in a designated special flood hazard area or a designated wetland? Yes

For projects in the 500 or 100-year floodplain: Does your project involve a critical action as defined in 24CFR55.2(b)(3)? No

Is any project site located in a known critical habitat for endangered species? No

Is any project site a known hazardous site? No

Is any project site located on federal lands or at a federal installation? No

Is any project site subject to or participating in Fixing America's Surface Transportation Act (FAST-41) (P.L. 114-94)? No

What level of environmental review is likely needed for this project? Environmental Assessment

Provide any additional detail or information relevant to Environmental Review: The project is anticipated to require environmental mitigation efforts due to the large footprint. The Drainage District proposes to dedicate and maintain the 90 acres south of Cole Rd. (currently owned by the District) as a natural habitat preserve to offset environmental impacts. Should additional efforts be required by TPWD or other regulatory authorities, plans will include preserve areas within the footprint of the detention pond.

Provide a brief narrative regarding how CDBG-MIT funding is to be used. Demonstrate that HUD CDBG environmental requirements have been met to date:

Permits

Does the project require any federal, state, or other permits, approvals, or waivers to complete the proposed work? Yes

If yes, describe the type and purpose of each permit and its association with the proposed project. Provide a copy of each permit already executed: An individual USACE permit is expected to be required, as is TPWD mitigation/permitting.

Does the project require any type of ratified, legally binding agreement between the applicant and any other entity to provide continual operation upon completion? No

If yes, describe the type and purpose of each agreement and its association with the proposed project. Provide a copy of each agreement already executed or drafted:

For sewer and/or water facilities projects, does the applicant currently hold the Certificate of Convenience and Necessity (CCN) for the target area proposed in the application? (If not a sewer and/or water facilities project, please choose N/A): N/A

Budget Activity Lines

Program Budget Code	Planned/Requested Amount	Planned Other Funds Amount	Total	Percent of Total
Construction	\$26,219,732.00	\$0.00	\$26,219,732.00	84.3%
Special Environmental	\$0.00	\$0.00	\$0.00	0%
Planning	\$0.00	\$0.00	\$0.00	0%
Environmental	\$300,000.00	\$0.00	\$300,000.00	1%
Grant Administration	\$1,425,000.00	\$0.00	\$1,425,000.00	4.6%
Engineering	\$3,146,368.00	\$0.00	\$3,146,368.00	10.1%
Acquisition	\$0.00	\$0.00	\$0.00	0%

Mitigation

Identify the specific risk the proposed project will mitigate against: Riverine Flooding; Storms

Describe as to how the proposed project addresses/mitigates against the current and future risks identified: During periods of precipitation, drainage facilities in and around the Tiger Creek watershed become overwhelmed, overflow, and fail to adequately direct water away from roadways and structures. The inability of the existing flood and drainage facilities to control flow rate and allow proper drainage of stormwater leads to significant, sustained flooding in unincorporated areas in the northwest portion of Orange County. Many high-water rescues have been required, residents have been stranded in their homes, and residential and commercial structures have been inundated with floodwaters, all presenting an immediate and imminent threat to public health and safety and resulting in hundreds of millions of dollars in damages. Without the proposed project, residents of the area will continue to face a threat of loss/damages to personal property and a threat of injury/death due to flooding of the Tiger Creek watershed.

The proposed project will provide approximately 3,600 ac-ft of detention capacity. Side flow will allow high water in Tiger Creek and the Cole Rd. Ditch to flow into the pond and be stored temporarily during high rainfall events. Pump stations will discharge stored water to Tiger Creek after a rain event, when sufficient capacity is available in the ditch.

The project would ultimately yield approximately 3,600 ac-ft of detention capacity, mitigating the risk of damages/loss of property and threat to public health and safety for 1,530 residents of northwestern Orange County.

Provide information about how the proposed mitigation efforts integrate into the community's emergency and resiliency plans: This project has been identified as a critical action necessary **to mitigate flooding within Orange County and is included in the Drainage District s HMAP.**

The Drainage District sponsored a series of community meetings in conjunction with Orange County and the communities within the County. Residents were given the opportunity to voice concerns regarding drainage and the proposed beneficiary area was the focus of many of these discussions. Many residents in the area had several feet of water in their homes during both Hurricane Harvey and Tropical Storm Imelda.

In the space provided, list documentation provided to support the identification of the threat or hazard and how it relates to potential impact: Orange County Drainage District HMAP

Provide a brief description of how the proposed project addresses an integrated approach to mitigation: The Drainage District, in conjunction with the County and local officials, sponsored a series of community meetings to consult with local residents and partners to discuss potential solutions to flooding in Orange County. Residents and community leaders offered critical insight to local hazards and voiced support for large scale projects that mitigate risks to health and welfare, infrastructure, and economic conditions posed by coastal storms. Of particular concern to residents was the need to protect vulnerable populations such as low-to-moderate income households, and disabled and elderly individuals, during future flood events.

The development of the proposed project presents an integrated approach to overall community resilience. The District identified a wide range of objectives that promote long term resiliency

while considering housing, fair housing obligations, infrastructure and economic resilience, including:

- 1) Housing quality and availability - Homes in the Tiger Creek watershed are particularly vulnerable to flooding during periods of significant precipitation. The area contains a high number of repetitive loss properties, the majority of which can be assumed to be occupied by LMI persons per the household income surveys of the area. Each storm event causes a further reduction in housing stock, thereby limiting access to affordable housing and resulting in higher burdens levied upon LMI households. The proposed project will reduce the risk of flooding of existing homes and promote availability of affordable housing.
- 2) Road and rail networks - Construction of the detention pond will provide adequate detention, drainage and diversion of stormwater to reduce flooding of streets, thereby ensuring access to emergency services and rescue personnel.
- 3) Environmental issues - The District will utilize natural bank stabilization where possible to reduce erosion and will include mitigation measures to restore, protect and preserve wetlands in coordination with TPWD. Construction of the detention pond will improve runoff and stormwater management, reducing pollution and other effects of stormwater runoff during severe storms.
- 4) Adequacy of existing infrastructure - Construction of the detention pond will enhance the effectiveness of most District owned/maintained infrastructure within the Tiger Creek watershed by reducing the demand placed upon both existing and planned culverts, drainage ditches/channels, and other flood control structures during flood events.
- 5) Modernization of public facilities - Though it did slow some following Hurricane Harvey and the pandemic, Orange County has seen an increase in both residential and commercial development since Hurricanes Rita and Ike. Development of residential and industrial structures, infrastructure and streets have drastically decreased the ability of floodwaters and runoff to drain, especially in areas in and around the Tiger Creek watershed. Additionally, the severity and frequency of recent storms has altered the flow of existing drainage facilities causing oxbows, misalignment of crossings, etc. To combat the changing landscape, both natural and manmade, the District must adapt by updating and modernizing facilities. Where drainage channels and ditches were once adequate enough to drain floodwaters, the District must now construct large capacity projects to slow and divert runoff to protect residents and structures, such as the Tiger Creek Detention Pond.
- 6) Development of regional and integrated systems - The District's approach to the reduction of flooding realized by the proposed project considers the entire watershed. Additionally, the District's project will be completed in tandem with projects sponsored by the City of Vidor and the City of Pine Forest to ensure adequate flow downstream of the proposed project.
- 7) Stimulation of local economy - The proposed project is consistent with the SETRPC's CEDS objectives to reduce threats to the economy through reducing displacement following natural disasters and improving infrastructure. Construction of the detention pond will strengthen the region's ability to attract and retain businesses, providing continued expansion of the SETRPC's economic resilience.

Considering the local evaluation of hazard risks, responsible floodplain management, future extreme weather/natural disaster events, and long-term risks, describe how the

proposed project promotes sustainable community resilience: Construction of the Tiger Creek Detention Pond will significantly reduce the effects of future disasters while confronting changing conditions, such as those resulting from development and repetitive disaster level events. The pond will be designed to mitigate risks of a 100-year event, with opportunities to increase the level of protection in the future by increasing the capacity of the pond.

The location of the detention pond was carefully selected to provide options for expansion, should funds become available now or in the future. Effects upon wetlands and floodplains were also considered during site selection. The proposed location was found to have the least adverse impact on both the human and natural environment in accordance with responsible floodplain management practices.

Duration, severity, and frequency of disaster level events have increased over the last several decades. Each storm has presented an opportunity to learn how the District can better prepare for and mitigate risks during future events. District staff, local residents, and community leaders have closely analyzed the effects of prior storms and continue to apply knowledge gained during these devastating events to equip their community with the resources, planning, and structures necessary to withstand events to come.

Additionally, common hazards such as debris and wind damage have been considered in the design of the equipment. Four pumps will be installed, but the system will be designed to allow continuity of operation should one unit require maintenance or become damaged during a storm event.

Describe how the proposed project is consistent with local and regional planning efforts to effect disaster mitigation: The Drainage District has coordinated with Orange County, the City of Vidor, and the City of Pine Forest to reduce flooding in the Tiger Creek watershed. The City of Pine Forest will be using a portion of their CDBG-DR funding to construct an outfall at Sugar Mill Rd., which will alleviate flooding caused by bottlenecking on the western side of the watershed. Therefore, the Drainage District has chosen this project to mitigate flooding to the east of FM 105 in an effort to reduce the damages and losses experienced in unincorporated areas of northwestern Orange County.

The City of Vidor is currently performing a study of Anderson Gully, which adjoins the southern reaches of the Tiger Creek watershed to determine what additional efforts they may take to eliminate flooding in the area. Planned projects include multiple detention ponds and drainage structures funded through CDBG-DR, CDBG-MIT, and HMGP.

Was a cost-benefit analysis used in the selection of the proposed project? No

Describe how the proposed project impacts vulnerable populations in the local community.: Low-to-moderate income households are the least likely to be able to prepare for, respond to, or recover from flooding events - particularly when there is damage to homes, displacement, loss of transportation, or workplace closures. Construction of the detention pond will reduce flooding of homes, vehicles, and businesses within the Tiger Creek watershed, thereby reducing the burden of recovery on LMI populations in the area.

Nearly one in four residents has a disability (2019 5YR ACS). It is well documented that persons with disabilities are disproportionately impacted by flooding due to socioeconomic disparities. The construction of the detention pond will ensure access to support services by diverting stormwater from roads, reduce displacement by mitigating flood risks to homes, and

reduce mental and physical stress caused by high-water rescues and other disaster related traumas.

Approximately one in six residents that will benefit from the project are considered elderly. Persons aged 65 and older face multiple age related vulnerabilities during flood events. Limited mobility, greater health care needs, and lower income affect the elderly's ability to prepare for and respond to disasters. The construction of the detention pond will decrease flow rates and store stormwater, buying the elderly population valuable time to evacuate or otherwise prepare for storms.

Describe how the proposed project creates economic opportunities for the local community: The 2018 National Climate Assessment found that households located in areas susceptible to flooding suffer greater economic vulnerability.

Job loss and lower wages result from outmigration following disasters, per the National Bureau of Economic Research.

The SETRPC identified many perceived and real risks that prevent economic growth in Orange County. Among those listed, natural disasters, displaced populations and the impact on census numbers/data, and frequency of storm events were deemed to negatively affect economic opportunities.

Construction of the Tiger Creek Detention Pond will reduce flooding, avoid displacement, and lead to more equitable and sustainable economic recovery and growth in northwestern Orange County.

The proposed project is consistent with the goals and objectives of the regional economic development strategy to protect and improve infrastructure. The region's investment in drainage and flood control projects, including the Tiger Creek Detention Pond, will demonstrate to potential investors that community leaders are willing and able to dedicate resources to support infrastructure projects that foster economic growth.

Does this project disproportionately impact vulnerable populations in the local community? No

Does the proposed project align with investments from other state or local capital improvements and infrastructure development efforts? Yes

Does the proposed project employ adaptable and reliable technology to guard against premature obsolescence? Yes

Describe the applicant's overall mitigation plan and how the project addressed in this application furthers that plan: The District's mitigation plan is intended to protect the health, safety and welfare of residents, reduce losses due to hazards, facilitate development and accommodate growth in a way that recognizes existing problems while avoiding worsening or creating new problems, and to seek solutions to existing flooding problems. One of the actions identified by the District to meet the stated goals is the construction of detention/retention facilities to reduce flood risks. The proposed project will reduce flooding through the construction of a detention facility and is consistent with the HMAP.

Describe how the proposed project will contribute to the community's resiliency against future disasters as a result of these projects: Construction of the Tiger Creek Detention Pond will minimize the effects of future disasters while confronting changing conditions, such as those resulting from development and repetitive disaster level events. The pond will be designed to mitigate risks of a 100 year event, with opportunities to increase the level of protection in the future by increasing the capacity of the pond.

The location of the detention pond was carefully selected to provide options for expansion, should funds become available now or in the future. Effects upon wetlands and floodplains were

also considered during site selection. The proposed location was found to have the least impact on both the human and natural environment in accordance with responsible floodplain management practices.

Duration, severity, and frequency of disaster level events have increased over the last several decades. Each storm has presented an opportunity to learn how the District can better prepare for and mitigate risks during future events. District staff, local residents, and community leaders have closely analyzed the effects of prior storms and continue to apply knowledge gained in during these devastating events to equip their community with the resources, planning, and structures necessary to withstand events to come.

Additionally, common hazards such as debris and wind damage have been considered in the design of the equipment. Four pumps will be installed, but the system will be designed to allow continuity of operation should one unit require maintenance or become damaged during a storm event.

**Tiger Creek Detention Pond - Tiger Creek
Detention Pond**

Project Site

Project Site

Project Site Title: Tiger Creek Detention Pond

Street Address: N/A

Street Limits on Street: N/A

From Street: N/A

To Street: N/A

Zip Code: 77630

City: NW Orange County

County: Orange

State: Texas

Latitude: 30.206999

Longitude: 93.99291

Performance Measures: Public Facilities

Provide the proposed number of linear feet:

Acquisition/Uniform Relocation Assistance

Does the project require acquisition of property, purchase of easements, relocation, or any other activity requiring compliance with URA outside the listed waived activities? No

Has acquisition of the project site(s) been completed, in progress, or will need to be acquired?

Describe the type and purpose of all acquisitions (easements, real property, etc.) associated with the proposed project. For acquisitions "Previously Acquired" or "Acquisition in Progress," include the date of acquisition, detailed information and supporting documentation to ensure compliance with all URA, 42 U.S.C. 4601 et seq., and environmental review processes:

What is the planned number of parcels to be acquired?

What is the associated cost amount for this acquisition?