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## County-Wide All-Natural Hazard Mitigation 2027 Plan Update for Lake County, IL

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### Scope of Work

The Lake County Stormwater Management Commission (LCSMC) in conjunction with a consultant, Lake County Emergency Management Agency (LCEMA), and the Lake County Hazard Mitigation Planning Committee (HMPC), will update the *2022 All-Natural Hazards Mitigation Plan for Lake County*, which is a FEMA approved multijurisdictional multi-hazard mitigation plan.

The plan update will assess the potential consequences of the hazards that impact Lake County which include floods, tornadoes, severe summer storms, winter storms, dam failure, erosion, extreme temperatures, and drought. In addition, the planning process will review the progress of mitigation activities and the action items specific to those hazards and analyze changes in development county-wide.

It is Lake County's goal to use the planning process to continue to build upon successful mitigation efforts to date. Those efforts include, but are not limited to, voluntary floodplain buyouts utilizing FEMA Pre-Disaster Mitigation (PDM), Flood Mitigation Assistance (FMA) and Hazard Mitigation Grant Program (HMGP) funding with local cost-share funding; improving the flow capacity of the drainage system; training and exercising for response personnel and elected officials; and enhancing, developing and promoting public education across multiple platforms with emergency and preparedness information.

The County's Plan will be updated in accordance with FEMA Mitigation Planning regulation at 44 CFR Part 201, FEMA's Hazard Mitigation Assistance Guidance, and the Community Rating System (CRS) Activity 510

### Community Profile:

Lake County is the most northeastern County in Illinois and is part of the Chicago metropolitan area along with Cook, Will, Kane and DuPage Counties. The County Seat is Waukegan, Illinois. The total area of Lake County is 1,368 square miles with a land area of 470 square miles and the rest water. Elevations in the county range from 957 feet above sea level to 580 feet above sea level. Land in the county slopes to the southeast. Much of the water area in Lake County is Lake Michigan.

The County is composed of 56 individual communities (some partially in other counties) and 18 townships (see Table 1 & Table 2). Lake County borders McHenry County to the west, Cook County to the south, and Lake Michigan to the east. Lake County is 23.5 miles from north to south. At its widest point, the southern county border, Lake County is 22.6 miles from east to west.

The Lake County has four main watersheds: The Fox River, the Des Plaines River, Lake Michigan and the North Branch Chicago River Watersheds. The Fox River and the Des Plaines River originate in Wisconsin. The Fox River flow travels southwest into McHenry County. Des Plaines River and North Branch Chicago River flow south into Cook County. There are many lakes within the County, and the natural landscape is prairie grasses and hardwood forests.

Lake County has a population of 714,336 and a population density of 1,600 people per square mile, according to ACS 2023 1-year population estimates. Approximately 271,350 housing units exist within the County. Lake County is the third most populated county in Illinois behind Cook County and DuPage County. The Lake County population makes up approximately 5.6% of the total population in the State of Illinois. The most populated municipality is the City of Waukegan with a 2023 estimate of 88,919 people from the ACS 2023 1-year estimates. Population growth in the County has declined less than 1% since 2020 U.S. Census, an overall trend that has continued since the 2020 U.S. Census. Illinois' population has declined 2% since 2020, the third largest population loss of U.S. States, according to the Chicago Metropolitan Agency for Planning (CMAP).

The 2025 US B.L.S. estimated workforce in Lake County was 370,023. The County's largest industries are manufacturing (13%), retail trade (12%), and health care and social assistance (11%). Lake County is also home to the Naval Station Great Lakes, the United States Navy's Headquarters Command for training, and the Navy's only recruit training center. Great Lakes Station has a population of 32,897 (4,000 active-duty staff personnel and family, 14,000 recruits and students, 3,000 government civilian employees and 2,000 contractors). The second largest employer in Lake County is Abbott Laboratories, which employs approximately 13,000 people.

Lake County covers approximately 470 square miles of land area. Approximately 86 square miles\* or 18.2% of Lake County is in the 100-year floodplain according to 2023 FEMA estimates. Total residential land use is the largest land use in Lake County, accounting for over 24% of the land. Public and private open space is also a large land usage, accounting for approximately 20% of the total land area.

*\* This figure includes coastal floodplain*

## Approach

**Previous Plan Review:** The Lake County Hazard Mitigation Planning Committee (HMPC) was created for the purpose of plan monitoring and maintenance. The membership of the HMPC includes several Lake County departments and agencies and Lake County municipalities listed in Table 1. Some small municipalities are represented by the Lake County staff. Neighboring counties in both Illinois and Wisconsin, regional, state and federal agencies, nonprofits, and other interested parties, will be invited to join the HMPC and participate in the plan update of the ANHMP including:

- U.S. State Geological Survey
- National Weather Service
- Federal Emergency Management Agency
- Illinois Emergency Management Agency
- Illinois Department of Natural Resources, Office of Water Resources
- Illinois Department of Natural Resources, State Water Survey
- American Red Cross
- Fox Waterway Agency

The HMPC held meetings annually to discuss the implementation of the plan and:

- Provide a forum to discuss recent and new hazard mitigation issues
- Disseminate hazard mitigation ideas and activities to all participants
- Allow for continued public participation in the implementation and future revisions
- Ensure incorporation of ANHMP's goals and guidelines into other planning documents

- Investigate mitigation opportunities
- Report on progress and recommended changes to the County Board and each municipality

All meetings were open to the public. Communities submitted written reports to LCSMC on progress implementing the ANHMP which were presented and discussed at the annual meeting. These annual reports will be used help facilitate the 5-year ANHMP update. The HMPC will also evaluate and incorporate, as appropriate, information from the previous plan's review tool, and other planning efforts that identified hazards, evaluated capabilities, or developed risk reduction projects for the update of the plan.

**Plan Adoption:** The HMPC is coordinated by the SMC and the LCEMA. All communities are asked to adopt the ANHMP by resolution of the governing body within 6 months of the Lake County Boards adoption of the plan update. Adoption of the Plan ensures that County, municipalities, and other agencies are authorized to implement the action items with available resources. Adoption is also a requirement for recognition of the Plan by mitigation funding programs, including the Disaster Mitigation Act of 2000, the FEMA Flood Mitigation Assistance Program and the National Flood Insurance Program's Community Rating System. The ANHMP adoption resolutions included a statement by the communities for continued participation on the HMPC and at annual meetings.

**Plan Participants:** Of the 56 communities or municipalities in Lake County, there are 52 that are likely to actively participate in the Plan update process and are expected to adopt the Plan. The other 4 communities are included in the Cook County Plan with a very small portion (less than 1 square mile) of community in Lake County. There are also 3 small unincorporated communities which are below the population threshold of 2,000 and will be represented by Lake County upon FEMA discretion. See Table 1 & 2.

**Risk Assessment Process:** The local risk assessment process includes reevaluating risk as defined by probability and frequency of occurrence of a hazard event, exposure to people and property to the hazard, and consequences of that exposure. The HMPC reviews all potential hazards that could impact any Lake County community, regardless of participation, and evaluates them based on their causes, their likelihood of occurring, and their impact on people, property, critical facilities, and the local economy.

Hazards are evaluated based on HMPC input provided at meetings and questionnaires. Hazard information is also based on available technical studies and reports by the participating agencies and communities and on their past experiences. Existing plans and programs are also reviewed during the plan update process.

The HMPC considers a variety of ways to reduce and prevent damage and recommends the most appropriate and feasible measures for implementation for all communities regardless of their participation.

Table 1: Lake County Communities		
Village of Antioch	Village of Island Lake	City of Park City
Village of Arlington Heights*	Village of Kildeer	Village of Port Barrington
Village of Bannockburn	Village of Lake Barrington	Village of Riverwoods
Village of Barrington	Village of Lake Bluff	Village of Round Lake
Village of Barrington Hills	City of Lake Forest	Village of Round Lake Beach
Village of Beach Park	Village of Lake Villa	Village of Round Lake Heights
Village of Buffalo Grove	Village of Lake Zurich	Village of Round Lake Park
Village of Deer Park	Village of Lakemoor	Village of Third Lake
Village of Deerfield	Village of Libertyville	Village of Tower Lakes
Village of Fox Lake	Village of Lincolnshire	Village of Vernon Hills
Village of Fox River Grove	Village of Lindenhurst	Village of Volo
Village of Grayslake	Village of Long Grove	Village of Wadsworth
Village of Green Oaks	Village of Mettawa**	Village of Wauconda
Village of Gurnee	Village of Mundelein	City of Waukegan
Village of Hainseville	Village of North Barrington	Village of Wheeling*
Village of Hawthorn Woods	City of North Chicago	Village of Winthrop Harbor
City of Highland Park	Village Northbrook*	City of Zion
City of Highwood	Village of Old Mill Creek**	Lake County
Village of Indian Creek**	Village of Palatine*	Naval Station Great Lakes

\*Will not participate in Lake County ANHMP

\*\* Small unincorporated communities which are below the population threshold of 2,000

Table 2: Lake County Townships		
Antioch	Lake Villa	Wauconda
Avon	Libertyville	Waukegan
Benton	Moraine	West Deerfield
Cuba	Newport	Zion
Ela	Shields	
Fremont	Vernon	
Grant	Warren	

## Planning Process

The planning process will include the following activities. The HMPC participates in these activities, and records of communications to outside stakeholders will be maintained in accordance with FEMA guidelines. Please also reference the table “Budget Narrative” for task budget breakdowns.

**Task 1 – Project Initiation and Organization:** The County’s Plan will be updated in accordance with FEMA Mitigation Planning regulation at 44 CFR Part 201, FEMA’s Hazard Mitigation Assistance Guidance, and the Community Rating System (CRS) Activity 510. The Consultant and SMC staff will initiate the project by reviewing the plan update process, confirming roles, and identify all data, maps, ordinances, prior plans, and other documents needed for the ANHMP update. Points of contact will be confirmed and the full HMPC meeting schedule will be developed and finalized.

The Consultant will support SMC in preparing pre-grant application materials relevant to the ANHMP update, including coordinating with SMC to gather required information and drafting the grant application for SMC review. The Consultant and SMC will jointly develop all materials needed to support the HMPC (agendas, presentations, handouts, worksheets). SMC will distribute meeting notices, agendas, and materials, and track community participation throughout the planning process.

*Outputs: HMPC meeting schedule; data and document request list; Grant Application; HMPC Agendas/materials; participation tracking system.*

**Task 2 - Public Involvement & Outreach:** The Consultant and SMC will implement a coordinated public involvement strategy using County communication channels, websites, online surveys, social media, and press releases. The Consultant will design public survey instruments, prepare public-facing materials, update web and outreach content, help establish early project messaging and draft a public review summary. Early in the process, the Consultant will also support the development of press releases and outreach strategies and assist SMC in ensuring ongoing opportunities for public engagement throughout the plan update.

SMC will lead official distribution and maintain all public-facing platforms. The Consultant will support preparation of interagency coordination letters to neighboring counties, state and federal agencies, regional entities, schools, healthcare partners and other stakeholders. Outreach activities will continue through the entirety of the draft plan review period, including preparation of the draft executive summary for stakeholder comment and feedback.

HMPC Meeting 1: The Committee will hold a kick-off meeting and review existing plans and ordinances, establish goals for the overall planning process, identify additional stakeholders and public outreach methods, and review community profile and hazard profile. Virtual and in-person meeting options will be made available.

*Outputs: Public survey; outreach materials; press releases; coordination letters; public review summary; updated project webpages; HMPC Meeting 1 (Kick-off)*

**Task 3 - Hazard Profile:** The Consultant will update all natural hazard profiles using current industry-standard datasets, disaster records, State HMP information, and local data. This task includes updating the natural hazards risk assessment for all events occurring since the previous plan. At HMPC Meeting 1,

participating communities will review and update hazard rankings after determining if changes are needed.

The Consultant will update hazard GIS layers (e.g., tornado paths, floodplains, dam locations, flood stages) and integrate SMC-produced GIS products into the hazard profiles. Special attention will be given to repetitive loss properties, comparing current listings with 2022 data and evaluating trends.

Meeting 2: The Committee will hold a meeting to review the risk assessment, vulnerability analysis, and supporting GIS maps identifying risks and vulnerabilities geographically. The Committee will also perform a risk assessment activity, prioritizing risks for their own jurisdiction. An interactive public web map may be utilized to identify additional risks, vulnerabilities, and assets. Virtual and in-person meeting options will be made available.

*Outputs: Updated Hazard Profiles; Revised hazard rankings; updated GIS hazard datasets; repetitive loss basic analysis; HMPC Meeting 2 (Assess Hazards)*

**Task 4 – Vulnerability Assessment:** The Consultant will support the county-wide vulnerability assessment, including evaluating vulnerable assets, estimating potential losses, and accounting for demographic, climate-informed hazard trends (e.g. precipitation intensity changes), land use, and development changes. This assessment will incorporate the most recent Census data and available demographic and development projections.

The Consultant and SMC will update community-specific hazard information from the prior plan, as needed, to support development of updated jurisdiction-specific action items.

*Output: Vulnerability assessment datasets; updated summaries; demographic and development trends analysis, Asset inventories, HMPC Meeting 2 (Assess Hazards)*

**Task 5 – Risk Assessment & Synthesis:** Consultant will synthesize findings from the hazard profiles and vulnerability assessment to create an updated comprehensive risk assessment. This includes integrating quantitative and qualitative risk indicators, summarizing exposure and potential losses, projected hazard shifts and presenting resulting in a format aligned with FEMA guidance.

*Outputs: County-wide Risk Assessment Summary; Risk Matrices; GIS -Based Visualizations*

**Task 6 - Goal Setting:** Communities will review and revalidate the mitigation goals and guidelines from the previous plan. The Consultant will facilitate goal discussions, provide supporting materials, and document any revisions to the mitigation goals. Risk analysis will integrate the modeled flood stages and climate-informed hazard projections where available. GIS-based risk scoring will incorporate inundation depth, frequency, and climate-adjusted scenarios as appropriate.

HMPC Meeting 3: Mitigation goals and strategies will be analyzed and prioritized based on the mitigation actions prioritization methodology developed by the Committee, following risk assessment. A Virtual and in-person meeting options will be made available.

*Outputs: Updated mitigation goals; HMPC goal-setting workshop materials; summary of revisions. HMPC Meeting 3 (Set Goals)*

**Task 7 - Mitigation Strategy:** The Consultant and SMC will review the 2017 ANHMP mitigation strategies and gather updated information from County and municipal partners on ongoing hazard mitigation activities across the six core strategy areas:

- Preventive
- Property Protection
- Natural Resource Protection
- Emergency Services
- Structural Mitigation
- Public Information

The Consultant will continue to facilitate strategy discussions from previous HMPC Meetings and will assist in updating Chapter 5 of the ANHMP. The Consultant will also prepare GIS maps and risk summary materials to support jurisdictional prioritization of mitigation actions using FEMA tools such as HAZUS and the National Risk Index.

*Outputs: Updated Mitigation Strategy (Chapter 5), GIS-Based Strategy Maps; Risk Summaries for Prioritization; HMPC meeting Materials, HMPC Meeting 3 (Set Goals)*

**Task 8 - Action Items & Draft ANHMP:** The Consultant will work with SMC and participating communities to develop updated and more detailed action items for each jurisdiction, including timelines, responsible parties, and potential funding sources.

The Consultant will update all plan sections, chapters and appendices as needed, ensuring accurate documentation of stakeholder participation, communications and outreach and prepare a complete draft ANHMP for public review. SMC will manage the public review period and all associated notifications. The Consultant will provide the draft in both Word and PDF formats, along with supporting GIS datasets and shapefiles.

The draft will be posted for public review for a 30-day period. SMC will publicize the draft through press releases, website updates, and other media.

HMPC Meeting/Public Meeting4: A formal meeting for the public will be held to review and comment on the draft plan in addition to previous opportunities for participation throughout the planning process. Virtual and in-person meeting options will be made available.

*Outputs: Updated action plan (Chapter 6); jurisdiction-specific action items; complete draft plan; public review materials; GIS datasets and shapefiles. Public Meeting (Review Activities & Plan)*

**Task 9 - Final Plan:** The Consultant and SMC will revise the ANHMP based on comments from participating communities, the public, external agencies, IEMA, and FEMA. The Consultant and SMC will ensure the updated ANHMP includes a complete maintenance strategy consistent with 44 CFR §201.6(c)(4). The updated plan will define procedures for annual review, post-disaster review, and five-year updates, including assignment of responsible parties, methods for tracking mitigation progress, and processes for incorporating new data, development changes, completed mitigation projects, updated hazard information, and community feedback. The plan maintenance section will outline how the County will continue to engage communities, stakeholders, and the public throughout the plan's lifecycle.

HMPC Meeting 5: A final meeting shall be held to discuss final approval steps and ongoing plan implementation priorities. Virtual and in-person meeting options will be made available.

The Consultant will help prepare the version submitted to IEMA and FEMA for official review and approval. After receiving FEMA's APA (Approval Pending Adoption), the Consultant will provide materials to assist each jurisdiction with plan adoption.

Once all communities adopt the plan, the Consultant will deliver the final electronic, writable plan documents (Word and PDF) and supporting datasets.

*Outputs: Final FEMA-approved plan; adoption-ready materials; final editable plan files; supporting GIS datasets. HMPC Meeting 5 (Draft Action Plan)*

### Budget Narrative:

Budget cost estimate was developed using historical costs for previous planning projects. The cost for supplies in the amount of \$2750 split 50/50 between SMC and the consultant and divided across all planning tasks. A table with SMC staff base pay rates and fringe benefits is listed after the budget narrative.

**Task 1 – Organize:** The Consultant and the SMC staff will meet to review the update process and to discuss any data, plans, maps, ordinances, and other documents needed for the ANHMP update. Project contacts will be identified and the HMPC meeting schedule will be developed.

Consultant and SMC will draft/develop any HMPC or ANHMP update materials. SMC will send meeting agenda and other materials to the HMPC. The SMC will track community participation in the HMPC.

Task 1 - Organize						
Name	Role	Rate w/ Fringe	Hours	Travel	Supplies	Total
Consultant 1	Hazard Mitigation Planner	\$51.57	15		\$ 154.72	\$ 928.34
Consultant 2	Planner 1	\$51.01	10		\$ 102.03	\$ 612.17
Consultant 3	Geospatial Science Specialist	\$40.51	5		\$ 40.51	\$ 243.05
Consultant 4	Geospatial Science Specialist III	\$63.95	0		\$ -	\$ -
Consultant 5	Hydraulic and Hydrology Engineer I	\$63.95	0		\$ -	\$ -
Consultant Sub Total				\$ -	\$ 297.26	\$ 1,783.56
SMC						
Osterby, Sharon	Project Manager	\$ 45.53	10		\$ 248.17	\$ 703.47
Woolford, Kurt	Executive Director	\$ 91.18	3			\$ 273.54
Laramy, Jeff	Senior GIS	\$ 54.02	0			\$ -
Silber, Dijana	Finance	\$ 37.83	2			\$ 75.66
Gilbert, Justine	Communications	\$ 28.98	1			\$ 28.98
Alternate In-Kind Staff	As Needed	\$ 52.79	4			\$ 211.16
Plan Print Cost						\$ -
SMC Sub-Total						\$ 1,292.81
Task Total						\$ 3,076.37

Justification: Ensures compliance with FEMA requirements by establishing roles, schedules, and collecting foundational data needed to begin the plan update.



**Task 2 – Public involvement:** Design and implement public engagement strategy, including surveys, website content, outreach materials, press releases, and coordination letters. Maintain public-facing updates throughout the planning process. Conduct HMPC Meeting 1 (Kickoff).

Task 2 - Public Involvement						
Name	Role	Rate w/ Fringe	Hours	Travel	Supplies	Total
Consultant 1	Hazard Mitigation Planner	\$51.57	30	\$ 76.88	\$ 324.82	\$ 1,948.94
Consultant 2	Planner 1	\$51.01	30	\$ 75.00	\$ 321.08	\$ 1,926.50
Consultant 3	Geospatial Science Specialist	\$40.51			\$ -	\$ -
Consultant 4	Geospatial Science Specialist III	\$63.95			\$ -	\$ -
Consultant 5	Hydraulic and Hydrology Engineer	\$63.95			\$ -	\$ -
Consultant Sub Total				\$ 151.88	\$ 645.91	\$ 3,875.44
SMC						
Osterby, Sharon	Project Manager	\$ 45.53	15		\$ 200.00	\$ 882.95
Woolford, Kurt	Executive Director	\$ 91.18	3			\$ 273.54
Laramy, Jeff	Senior GIS	\$ 54.02	0			\$ -
Silber, Dijana	Finance	\$ 37.83	2			\$ 75.66
Gilbert, Justine	Communications	\$ 28.98	1			\$ 28.98
Alternate In-Kind Staff	As Needed	\$ 52.79	4			\$ 211.16
Plan Print Cost						\$ -
SMC Sub-Total						\$ 1,472.30
Task Total						\$ 5,347.74

Justification: Supports FEMA-required public engagement and stakeholder coordination, including surveys, notices, and outreach materials.

**Task 3 – Hazard Profile:** Update all natural hazard profiles using current datasets, local inputs, and new modeling. Update hazard GIS layers, conduct climate-informed flood stage modeling, and analyze repetitive loss data. Conduct HMPC Meeting 2 focused on hazard and risk review.

Task 3 - Hazard Profile						
Name	Role	Rate w/ Fringe	Hours	Travel	Supplies	Total
Consultant 1	Hazard Mitigation Planner	\$51.57	35	\$ 75.00	\$ 376.02	\$ 2,256.14
Consultant 2	Planner 1	\$51.01	36	\$ 75.00	\$ 382.30	\$ 2,293.80
Consultant 3	Geospatial Science Specialist	\$40.51	10		\$ 81.02	\$ 486.10
Consultant 4	Geospatial Science Specialist III	\$63.95			\$ -	\$ -
Consultant 5	Hydraulic and Hydrology Engineer	\$63.95			\$ -	\$ -
Consultant Sub Total				\$ 150.00	\$ 839.34	\$ 5,036.03
SMC						
Osterby, Sharon	Project Manager	\$ 45.53	10		\$ 200.00	\$ 655.30
Woolford, Kurt	Executive Director	\$ 91.18	3			\$ 273.54
Laramy, Jeff	Senior GIS	\$ 54.02	0			\$ -
Silber, Dijana	Finance	\$ 37.83	2			\$ 75.66
Gilbert, Justine	Communications	\$ 28.98	1			\$ 28.98
Plan Print Cost						\$ -
SMC Sub-Total						\$ 1,033.48
Task Total						\$ 6,069.51

Justification: Updates hazard data, GIS layers, and modeling as required by FEMA to maintain accurate and current hazard profiles.

**Task 4 – Vulnerability Assessment:** Assess vulnerability of populations, assets, and infrastructure using updated demographic, land-use, and development data. Estimate potential losses and update community-specific vulnerability summaries.

Task 4 - Vulnerability Assessment						
Name	Role	Rate w/ Fringe	Hours	Travel	Supplies	Total
Consultant 1	Hazard Mitigation Planner	\$51.57	80	\$ 75.00	\$ 840.19	\$ 5,041.17
Consultant 2	Planner 1	\$51.01	75	\$ 75.00	\$ 780.21	\$ 4,681.24
Consultant 3	Geospatial Science Specialist	\$40.51	135	\$ 75.00	\$ 1,108.72	\$ 6,652.30
Consultant 4	Geospatial Science Specialist III	\$63.95	56	\$ 75.00	\$ 731.21	\$ 4,387.25
Consultant 5	Hydraulic and Hydrology Engineer I	\$63.95	95	\$ 75.00	\$ 1,230.00	\$ 7,379.99
Consultant Sub Total				\$ 375.00	\$ 4,690.33	\$ 28,141.95
SMC						
Osterby, Sharon	Project Manager	\$ 45.53	20		\$ 200.00	\$ 1,110.61
Woolford, Kurt	Executive Director	\$ 91.18	3			\$ 273.54
Laramy, Jeff	Senior GIS	\$ 54.02	20			\$ 1,080.42
Silber, Dijana	Finance	\$ 37.83	2			\$ 75.66
Gilbert, Justine	Communications	\$ 28.98	1			\$ 28.98
Alternate In-Kind Staff	As Needed	\$ 52.79	4			\$ 211.16
Plan Print Cost						\$ -
SMC Sub-Total						\$ 2,780.37
Task Total						\$ 30,922.32

Justification: Provides required updates to demographic, asset, and development data to assess community vulnerability to hazards.

**Task 5 – Risk Assessment & Synthesis:** Integrate hazard and vulnerability findings into a comprehensive risk assessment. Develop updated risk matrices, loss estimates, and GIS-based visualizations. Incorporate climate-adjusted modeling outputs.

Task 5 - Risk Assessment & Synthesis						
Name	Role	Rate w/ Fringe	Hours	Travel	Supplies	Total
Consultant 1	Hazard Mitigation Planner	\$51.57	60		\$ 618.90	\$ 3,713.38
Consultant 2	Planner 1	\$51.01	65		\$ 663.18	\$ 3,979.08
Consultant 3	Geospatial Science Specialist	\$40.51	130		\$ 1,053.21	\$ 6,319.25
Consultant 4	Geospatial Science Specialist III	\$63.95	50		\$ 639.47	\$ 3,836.83
Consultant 5	Hydraulic and Hydrology Engineer	\$63.95	95		\$ 1,215.00	\$ 7,289.99
Consultant Sub Total				\$ -	\$ 4,189.75	\$ 25,138.52
SMC						
Osterby, Sharon	Project Manager	\$ 45.53	10		\$ 200.00	\$ 655.30
Woolford, Kurt	Executive Director	\$ 91.18	3			\$ 273.54
Laramy, Jeff	Senior GIS	\$ 54.02	2			\$ 108.04
Silber, Dijana	Finance	\$ 37.83	3			\$ 113.49
Gilbert, Justine	Communications	\$ 28.98	1			\$ 28.98
Plan Print Cost						\$ -
SMC Sub-Total						\$ 1,179.36
Task Total						\$ 26,317.88

Justification: Integrates hazard and vulnerability data into a FEMA-compliant risk assessment needed to guide mitigation priorities.

**Task 6 – Goal Setting:** Facilitate review and refinement of mitigation goals based on updated risk information and community input. Prepare supporting materials and document all revisions. Conduct HMPC Meeting 3 (Goals & Prioritization).

Task 6 - Goal Setting						
Name	Role	Rate w/ Fringe	Hours	Travel	Supplies	Total
Consultant 1	Hazard Mitigation Planner	\$51.57	50		\$ 515.75	\$ 3,094.48
Consultant 2	Planner 1	\$51.01	35		\$ 357.10	\$ 2,142.58
Consultant 3	Geospatial Science Specialist	\$40.51	30		\$ 243.05	\$ 1,458.29
Consultant 4	Geospatial Science Specialist III	\$63.95	0		\$ -	\$ -
Consultant 5	Hydraulic and Hydrology Engineer	\$63.95	5		\$ 63.95	\$ 383.68
Consultant Sub Total				\$ -	\$ 1,179.84	\$ 7,079.03
SMC						
Osterby, Sharon	Project Manager	\$ 45.53	10		\$ 200.00	\$ 655.30
Woolford, Kurt	Executive Director	\$ 91.18	3			\$ 273.54
Laramy, Jeff	Senior GIS	\$ 54.02	0			\$ -
Silber, Dijana	Finance	\$ 37.83	2			\$ 75.66
Gilbert, Justine	Communications	\$ 28.98	1			\$ 28.98
Plan Print Cost						\$ -
SMC Sub-Total						\$ 1,033.48
Task Total						\$ 8,112.52

Justification: Ensures mitigation goals are reviewed and updated in alignment with current risks and FEMA planning requirements.

**Task 7 -Mitigation Strategy:** Review existing mitigation strategies, update strategy components across the six FEMA categories, and support jurisdictions in reprioritizing actions. Prepare GIS-based strategy maps and risk summaries for prioritization.

Task 7 - Mitigation Strategy Development						
Name	Role	Rate w/ Fringe	Hours	Travel	Supplies	Total
Consultant 1	Hazard Mitigation Planner	\$51.57	55	\$ 75.00	\$ 582.32	\$ 3,493.93
Consultant 2	Planner 1	\$51.01	75	\$ 75.00	\$ 780.21	\$ 4,681.24
Consultant 3	Geospatial Science Specialist	\$40.51	50	\$ 75.00	\$ 420.08	\$ 2,520.48
Consultant 4	Geospatial Science Specialist III	\$63.95	10	\$ -	\$ 127.89	\$ 767.37
Consultant 5	Hydraulic and Hydrology Engineer I	\$63.95	5	\$ 75.00	\$ 78.95	\$ 473.68
Consultant Sub Total				\$ 300.00	\$ 1,989.45	\$ 11,936.70
SMC						
Osterby, Sharon	Project Manager	\$ 45.53	16		\$ 200.00	\$ 928.49
Woolford, Kurt	Executive Director	\$ 91.18	3			\$ 273.54
Laramy, Jeff	Senior GIS	\$ 54.02	0			\$ -
Silber, Dijana	Finance	\$ 37.83	2			\$ 75.66
Gilbert, Justine	Communications	\$ 28.98	1			\$ 28.98
Alternate In-Kind Staff	As Needed	\$ 52.79	4			\$ 211.16
Plan Print Cost						\$ -
SMC Sub-Total						\$ 1,517.83
Task Total						\$ 13,454.53

Justification: Updates County and community mitigation strategies and ensures they are risk-based and meet FEMA's criteria.

**Task 8 Action Items & Draft ANHMP:** Revise the plan based on public, HMPC, IEMA, and FEMA feedback; prepare the FEMA submittal; support jurisdictions with formal adoption; and deliver final editable plan files and supporting datasets. Conduct HMPC Meeting 5.

Task 8 -Action Items & Draft ANHMP/LHMP						
Name	Role	Rate w/ Fringe	Hours	Travel	Supplies	Total
Consultant 1	Hazard Mitigation Planner	\$51.57	45	\$ 75.00	\$ 479.17	\$ 2,875.03
Consultant 2	Planner 1	\$51.01	45	\$ 75.00	\$ 474.12	\$ 2,844.75
Consultant 3	Geospatial Science Specialist	\$40.51	40	\$ 75.00	\$ 339.06	\$ 2,034.38
Consultant 4	Geospatial Science Specialist III	\$63.95	15	\$ 75.00	\$ 206.84	\$ 1,241.05
Consultant 5	Hydraulic and Hydrology Engineer	\$63.95	5	\$ 75.00	\$ 78.95	\$ 473.68
Consultant Sub Total				\$ 375.00	\$ 1,578.15	\$ 9,468.90
SMC						
Osterby, Sharon	Project Manager	\$ 45.53	20		\$ 150.00	\$ 1,060.61
Woolford, Kurt	Executive Director	\$ 91.18	3			\$ 273.54
Laramy, Jeff	Senior GIS	\$ 54.02	12			\$ 648.25
Silber, Dijana	Finance	\$ 37.83	2			\$ 75.66
Gilbert, Justine	Communications	\$ 28.98	1			\$ 28.98
Alternate In-Kind Staff	As Needed	\$ 52.79	4			\$ 211.16
Plan Print Cost						\$ -
SMC Sub-Total						\$ 2,298.20
Task Total						\$ 11,767.10

Justification: Develops updated action items and produces the draft plan for required external review.

**Task 9 – Final Plan:** The consultant and SMC will revise the ANHMP based on all comments received. The SMC will submit an agency review draft of the 2027 ANHMP to IEMA and FEMA for review and approval. The ANHMP will be revised according to any comments made by IEMA or FEMA. The consultant will provide materials that will assist the County and municipalities with the adoption of the 2027 ANHMP.

Task 9 - Final Plan						
Name	Role	Rate w/ Fringe	Hours	Travel	Supplies	Total
Consultant 1	Hazard Mitigation Planner	\$51.57	50	\$ 75.00	\$ 530.75	\$ 3,184.48
Consultant 2	Planner 1	\$51.01	45		\$ 459.12	\$ 2,754.75
Consultant 3	Geospatial Science Specialist	\$40.51	20	\$ 76.07	\$ 177.25	\$ 1,063.48
Consultant 4	Geospatial Science Specialist III	\$63.95	5		\$ 63.95	\$ 383.68
Consultant 5	Hydraulic and Hydrology Engineer I	\$63.95	2		\$ 25.58	\$ 153.47
Consultant Sub Total				\$ 151.07	\$1,256.64	\$ 7,539.86
SMC						
Osterby, Sharon	Project Manager	\$ 45.53	15		\$ 175.95	\$ 858.90
Woolford, Kurt	Executive Director	\$ 91.18	3			\$ 273.54
Laramy, Jeff	Senior GIS	\$ 54.02	0			\$ -
Silber, Dijana	Finance	\$ 37.83	2			\$ 75.66
Gilbert, Justine	Communications	\$ 28.98	1			\$ 28.98
Plan Print Cost					\$5,000.00	\$ 5,000.00
SMC Sub-Total						\$ 6,237.08
Task Total						\$ 13,776.94

Justification: Completes all revisions, prepares FEMA-submittal materials, and supports jurisdictional adoption for final approval.

**Total Project Cost estimate breakdown by task:**

Total Project Cost by Task					
Task		In-Kind	Travel	Supplies &	
Total	Consultant Expenses	Expenses	Expenses	Consultant Fees	Total
1	\$1,783.56	\$1,292.81	\$0.00	\$545.43	\$3,076.37
2	\$3,875.44	\$1,472.30	\$151.88	\$845.91	\$5,347.74
3	\$5,036.03	\$1,033.48	\$150.00	\$1,039.34	\$6,069.51
4	\$28,141.95	\$2,780.37	\$375.00	\$4,890.33	\$30,922.32
5	\$25,138.52	\$1,179.36	\$0.00	\$4,389.75	\$26,317.88
6	\$7,079.03	\$1,033.48	\$0.00	\$1,379.84	\$8,112.52
7	\$11,936.70	\$1,517.83	\$300.00	\$2,189.45	\$13,454.53
8	\$9,468.90	\$2,298.20	\$375.00	\$1,728.15	\$11,767.10
9	\$7,539.86	\$6,237.08	\$151.07	\$1,432.59	\$13,776.94
Task Sub-Total					\$118,844.91
Plan Print Cost					\$5,000.00
Project SubTotal					\$123,844.91
Administrative Cost (5%)					\$6,155.09
Project Total					\$130,000.00
Cost Share Break Down		FEMA	Local		
		Cost Share	Cost Share *	Total	
Project Cost		\$92,883.68	\$30,961.23	\$123,844.91	
Administrative Costs		\$6,155.09		\$6,155.09	
Total		\$99,038.77	\$30,961.23	\$130,000.00	

*\*In-Kind Contributions*

**SMC Base Pay Rate and Fringe Benefit breakdown:**

SMC Staff	Title	Annual	Annual w/ Fringe	Salary Grade Base Pay	Base Pay w/ Fringe
Osterby, Sharon	Project Manager	\$91,249.60	\$94,703.09	\$43.87	\$45.53
Woolford, Kurt	Executive Director	\$185,000.14	\$189,653.63	\$88.94	\$91.18
Laramy, Jeff	Senior GIS	\$109,236.14	\$112,363.81	\$52.52	\$54.02
Silber, Dijana	Finance	\$75,559.12	\$78,686.79	\$36.33	\$37.83
Gilbert, Justine	Communications	\$59,034.82	\$60,278.70	\$28.38	\$28.98
Dulabaum, Sharene	Water Resource Prof	\$75,324.86	\$75,497.93	\$36.21	\$36.30
Huaracha, Ernesto	Water Resource Prof	\$107,841.24	\$111,294.73	\$51.85	\$53.51
Michael Prusila	Supervisor Watershed Planning	\$115,276.72	\$118,730.21	\$55.42	\$57.08
Brian Frank	Chief Engineer - SMC	\$143,270.40	\$146,723.89	\$68.88	\$70.54
Kelcey Traynoff	Regulatory Supervisor	\$108,136.60	\$109,911.61	\$51.99	\$52.84
Pope, Michelle	GIS Analyst/Drone Pilot	\$68,768.18	\$70,141.28	\$33.06	\$33.72

Schedule:

ANHMP Project Schedule																											
Task/ Month	Task Description	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Work Completed By:	
1	Organize	X	X	X	X	X	X	X	X	X																LCSMC/Consultant	
2	Public involvement								X	X	X	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	LCSMC/Consultant
3	Hazard Profile								X	X	X															LCSMC/Consultant	
4	Vulnerability Assessment									X	X	X	X													LCSMC/Consultant	
5	Risk Assessment & Synthesis										X	X	X	X	X											LCSMC/Consultant	
6	Goal Setting											X	X	X	X											LCSMC/Consultant	
7	Mitigation Strategy Development												X	X	X	X										LCSMC/Consultant	
8	Action Items & Draft ANHMP														X	X	X	X	X	X	X					LCSMC/Consultant	
9	Final Plan/Adoption																					X	X	X	X	LCSMC/Consultant	

Procurement of Consultant/FIRM

Procurement of a qualified consultant will be sought in accordance with the Lake County Purchasing Ordinance (<https://www.lakecountyil.gov/DocumentCenter/View/4472/Lake-County-Purchasing-Ordinance-PDF>) and in accordance with State and Federal procurement requirements.

ARTICLE 5– PROFESSIONAL SERVICES AND COMPETITIVE SEALED PROPOSALS

5-101 GENERAL

(1) Department Heads, Agencies and/or Elected Officials shall have the authority to award Professional Services Contracts of less than \$50,000.00 and may determine, in their discretion, whether such contracts will be awarded on the basis of competitive sealed proposals. Professional Services Contracts for \$50,000.00 or greater or where multiple Professional Services Contracts for the same item and/or with a single vendor within a fiscal year are likely to exceed \$50,000.00 will be subject to the competitive sealed proposals provisions pursuant to Article 5-102, unless they meet one of the exceptions and/or requirements enumerated in Article 6, or unless they fall within the scope of subparagraph (3) of this article. All Contracts that fall within the scope of subparagraph (3) of this article shall be awarded on the basis of qualification-based factors rather than price and will follow the Statement of Interest procedures according to the Local Government Professional Services Selection Act (50 ILCS 510/1 et seq.) rather than a competitive bid or a competitive sealed proposal.

(2) For Professional Services Contracts for \$50,000.00 or greater, the respective Department Head and the Purchasing Agent shall present a joint recommendation to the County Board for consideration and approval.

(3) All Professional Services Contracts relative to engineering, architectural and land surveying services will be governed by the requirements of the Local Government Professional Services Selection Act (50 ILCS 510/1 et seq.). In the event Lake County does not have a satisfactory relationship with one or more firms, a Statement of Interest shall be issued for the initial selection of engineering, architectural or land surveying services with evaluation based on qualifications such as ability of professional personnel, past record and experience, performance data on file, willingness to meet requirements, location, workload of the firm, work on similar projects, past performance and other applicable qualification-based factors but excluding consideration of price or compensation. Responders are then ranked in order of preference and

contract negotiations are initiated with the firms individually in order of preference. A Request for Statement of Interest is not required for contracts up to \$25,000 regardless of the existence or nonexistence of a satisfactory relationship with one or more firms. In all cases, a written description of Scope of Services to be provided shall be prepared and used as the basis of contract negotiations.

(4) Contracts, other than professional services contracts, in which the Purchasing Agent determines that competitive sealed bidding is neither practical nor advantageous, may be entered into by a competitive sealed proposal.

#### **5-102 PROCEDURES**

Competitive Sealed Proposals shall be initiated and created in accordance with the procedures for Competitive Sealed Bidding as enumerated in Article 4 except as follows: (1) Proposals shall not be publicly opened, and the register of proposals shall be available for public inspection only after contract execution. (2) Fair and equal treatment with respect to any opportunity for discussion and revision of proposals and such revisions may be permitted after submissions and prior to award for the purpose of obtaining best and final offers.

### **ARTICLE 6 – PURCHASES EXEMPT FROM COMPETITIVE SEALED BIDDING**

#### **6-101 GENERAL**

This section applies to and details the requirements for the purchases that, for various reasons, may be exempt from the competitive sealed bid process. Despite the exemptions, competitive pricing shall be encouraged and/or a cost or price analysis shall be conducted prior to the award of contracts under this section whenever possible.

#### **6-102 REQUEST FOR PROPOSAL**

If and when a department head conducts a good faith review of available sources and determines that the contract by its very nature is not suitable to competitive bids or proposals, he or she shall forward an exemption request to the Purchasing Agent. The Purchasing Agent will review and approve all Exempt requests. The Purchasing Agent may consult with ad hoc groups of county staff in making his or her determination with regard to a particular procurement. If the Purchasing Agent reviews and approves the department head's recommendation that the procurement is exempt from competitive bids or proposals, the department is not required to employ the competitive proposal or bidding process to enter into a contract. A written determination for the basis for the bid exemption shall be made by the Purchasing Agent and included in the contract file. Examples of contracts which may not be suitable for competitive bids or proposals are;

- (a) There is only one source for the required goods, service, or construction item.
- (b) There exists a long standing, successful relationship for professional services, and the knowledge gained through this relationship adds value integral to the services provided.
- (c) A sole supplier's item is needed for trial use or testing.
- (d) The purchase is for used equipment.
- (e) The purchase is made at auctions.