

## SECTION 5

### Technological Hazard Mitigation Goals & Objectives Overall Community Goals, Policy and Values Narrative

#### Summary of Plan Updates

Section		Change
Sec 5, I	Hazardous Materials Releases	Updated Hazardous Material Mitigation Strategy, Timeline, Actions, Responsible and Coordinating Organization, Costs, Funding Sources, Priority, and Status
Sec 5, II	Category I Dams	Updated Hazardous Material Mitigation Strategy, Timeline, Actions, Responsible and Coordinating Organization, Costs, Funding Sources, Priority, and Status
Sec 5,	Entire Section	Added New Mitigation Actions for Technological Hazards
Sec 5, III	Emerging Threats	Added Mitigation Actions for Emerging Threats

Fayette County has two types of technological hazards, hazardous materials and Category I dams. Both these manmade hazards have been identified in Section 4, Risk Assessment as a potential risk to the community. The Mitigation Planning Committee has identified and will work toward implementation of the following goals and objectives that will reduce Fayette County's vulnerability to technological hazards.

#### **I. Hazardous Materials Releases**

**Community Mitigation Goals** - Hazardous materials releases are identified as a technological hazard in our community. Prior historical trends suggest that there will be approximately one major hazardous material event in the county during any given year, however, through the establishment of our disaster mitigation plan and related goals and objectives there has been a significant reduction to major hazardous materials releases in our community. This includes both fixed facility and transportation related incidents. The Fayette County plan update establishes a goal of eliminating any hazardous materials releases in our community through working with major industries and municipal partners and the Fayette County LEPC. These efforts have proved successful as evident through the overall reduction of hazardous material response in our community. The potential still exists however, and the plan will establish further goals and objectives to ensure this downward trend continues.

**Identification and Analysis of Range of Mitigation Options** – The overarching goal regarding technology mitigation goals and objectives is first to identify all technological hazards, mitigate any undesirable or unanticipated affects, and to plan for a specialized response to the technological incident. Technological hazard are outlined in Section 3. Mitigation goals, objectives and actions of technological incidents these are identified in Section 5 and will involve working partnerships with industry through our Local Emergency Planning Committee. Planning for a specialized response includes ensuring that first responders are trained and equipped to effectively and efficiently respond to the incident.

**Mitigation Strategy for Hazardous Materials Spills**

**Mitigation Goal #1** - *“To minimize the losses of lives, property and damage to the environment due to hazardous materials spills in Fayette County.”*

**Goal #1** - To protect the people, property, and the environment from the effects of hazardous materials spills in Fayette County.

**Action Steps:**

1. *Conduct a hazardous materials exercise.*

Responsible Organization	All Emergency Response Agencies
Coordinating Organization	Fayette County EMA
Timeline	2017
Approximate Cost	\$1500
Funding Sources	LEPC Private Funding
Priority	Medium
Status	New

2. *Purchase additional hazardous materials response equipment necessary to sustain hazardous materials response operations as well as for new chemicals entering the community.*

Responsible Organization	Fayette County LEPC Local Fire Departments
Coordinating Organization	Fayette County EMA
Timeline	2015-Ongoing
Approximate Cost	Unknown
Funding Sources	Tax Digest LEPC Funds
Priority	High
Status	Ongoing

3. *Work with and encourage industry to reduce chemical inventories at fixed facilities.*

Responsible Organization	Fayette County LEPC Industry
Coordinating Organization	Fayette County LEPC
Timeline	2015-Ongoing
Approximate Cost	Unknown
Funding Sources	LEPC Funding
Priority	High
Status	Accomplished

4. *Develop security strategies and safeguards for the containment of hazardous materials at fixed facilities.*

Responsible Organization	Fayette County Local Emergency Planning Committee
Coordinating Organization	Fayette County EMA
Timeline	2016
Approximate Cost	\$350,000
Funding Sources	Private Funding
Priority	Medium
Status	Rolled Over to 2015 Plan

**2015 - 2020 Technological Hazard Mitigation Goals & Objectives  
Overall Community Goals, Policy, and Values Narrative**

*1. Develop a comprehensive multijurisdictional railroad disaster response plan.*

Responsible Organization	Fayette County Local Emergency Planning
Coordinating Organization	Fayette County EMA
Timeline	2015-2020
Approximate Cost	\$10,000
Funding Sources	Grants and Local Funding
Priority	High
	New

**Multi-Jurisdictional Considerations** - Hazardous materials events have occurred primarily in the industrial basin of Fayette County; however, the County does have the potential for other related hazardous materials events such as the CSX Railroad, the Williams Transcontinental and Colonial pipelines. The County is always susceptible to transportation accidents on its state highway system. Fayette County’s Hazardous Materials Response team is multi-jurisdictional with all fire departments actively participating.

**Public Information and Awareness Strategies** - The Fayette County Hazard Mitigation Planning Committee has identified public awareness campaigns to ensure that the citizens of Fayette County are kept abreast of the hazards affecting them and the mitigation efforts to alleviate potential situations. Through a cooperative program through the Local Emergency Planning Committee Fayette County, Peachtree City, Fayetteville, Tyrone, Brooks, and Woolsey has access to a phone dialing system that can be activated to alert residents during a hazardous materials incident. The Fayette County Local Emergency Planning Committee and Resource Council regularly meet with industry in an effort to mitigate and plan for hazardous material incidents in our community.

**II. Category I High Risk Dams**

**Mitigation Goals** - A major concern is that an accidental or intentional breach of a high-risk Category I dam that would result in the loss of life and or property. The chances of one occurring are negligible but it could have catastrophic effects. Periods of heavy rain, deteriorating pipes and drains over a period of time could result in a dam breach. Goals and objectives for mitigating dam failures will be identified in this section.

**Range of Mitigation Options** - The range of mitigation options include identifying the dam, its downstream affects to life and property and the development of a response plan for each dam. Additionally, to ensure that other structures are placed in the inundation zone of existing or future Category I dams.

## Mitigation Strategies for Category I Dams

**Mitigation Goal # 1** - *“To minimize the loss of life and property from a dam failure in Fayette County.”*

**Goal # 1** - To protect the people and property that live below Category I dams in Fayette County.

**Action Steps:** See photo below

- 1 *Implement the City of Fayetteville’s corrective action plan regarding Pye Lake dam. See Appendix H Pye Lake Corrective Action Plan.*

Responsible Organization	City of Fayetteville
Coordinating Organization	Fayetteville Engineering
Timeline	2010
Approximate Cost	\$1.5 million
Funding Sources	Hazard Mitigation Grant
Priority	High
Status	Accomplished



Completed Pye Lake Hazard Mitigation Drainage Project

2. *Develop a Dam Emergency Action Plan for each Category I Dam in Fayette County*

Responsible Organization	Dam Owners/Emergency Management
Coordinating Organization	Emergency Management
Timeline	Completed
Approximate Cost	None
Funding Sources	General Fund
Priority	Medium
Status	Ongoing

3. *Establish a Dam Safety awareness program with those residents that reside in flood inundation areas below Category I Dams.*

Responsible Organization	Emergency Management
Coordinating Organization	Emergency Management
Timeline	2006
Approximate Cost	Minimal
Funding Sources	General Fund
Priority	Medium
Status	Rolled to 2015 Plan

4. *Stricter enforcement of zoning ordinances to eliminate building structures below Category I dams creating hazards.*

**COMPLETED**

Responsible Organization	Engineering/Planning & Zoning
Coordinating Organization	Engineering
Timeline	2010-2015
Approximate Cost	Minimal
Funding Sources	General Fund
Priority	High
Status	Rolled to 2015 plan

5. *Work closely and proactively with the Georgia Safe Dams Division with regards to Category II dams that have the potential to become Category I dams.*

Responsible Organization	Safe Dams/ Emergency Management
Coordinating Organization	Emergency Management
Timeline	2010-2015
Approximate Cost	Minimal
Funding Sources	General Fund
Priority	High
Status	Accomplished

6. *Develop a plan and strategy for the reduction of water levels of Category I dams prior to tropical storms in an effort to reduce the potential for a dam breach.*

Responsible Organization	Homeowners/Emergency Management
Coordinating Organization	Emergency Management
Timeline	2010-2015
Approximate Cost	Minimal
Funding Sources	General Fund
Priority	Medium
Status	Accomplished

**NEW 2015 PROJECTS UNINCORPORATED FAYETTE COUNTY**

7. The project includes evaluation, design, permitting and construction of operational and maintenance improvements to prevent dam failure at the Emerald Lake Dam

Responsible Organization	Fayette County Stormwater Utility
Coordinating Organization	Fayette County Public Works
Timeline	2016
Approximate Cost	1,720,000
Funding Sources	Stormwater Utility and General Fund

8. Phillips Lake Dam breach project to meet Georgia Safe Dams Program standards and prevent failure.

Responsible Organization	Fayette County Stormwater Utility
Coordinating Organization	Fayette County Public Works
Timeline	2016
Approximate Cost	\$500,000
Funding Sources	Stormwater Utility and General Fund

**NEW 2015 - 2020 PEACHTREE CITY PROJECTS**

- 9. BCS Pond Rehabilitation. Existing detention pond is in need of maintenance. Existing trees on the dam need to be removed and the dam rebuilt with proper emergency spillway. Existing Dam is not classified as a Category I or II structure.

Responsible Organization	Peachtree City
Coordinating Organization	Peachtree City Stormwater Utility
Timeline	2015-2020
Approximate Cost	\$500,000
Funding Sources	Stormwater Utility

- 10. Lake Peachtree Spillway Modifications. Category II dam. Spillway is concrete structure over 50 years old and has reached the end of its useful life. The spillway needs to be replaced and upgraded with one to meet current design requirements.

Responsible Organization	Peachtree City
Coordinating Organization	Peachtree City Stormwater Utility
Timeline	2015-2020
Approximate Cost	3,000,000
Funding Sources	Stormwater Utility Fund

**Multi-Jurisdictional Considerations**

Of the five jurisdictions, Peachtree City, Fayetteville, and Tyrone, have identified four have Category I dams. Seven others are in unincorporated Fayette County. Brooks and Woolsey have no Category I dams. This includes the addition of Fayette County’s new reservoir Lake McIntosh.

**Public Information and Awareness Strategies**

The Fayette County Hazard Mitigation Planning Committee has identified public information and awareness as an important strategy to promote dam safety especially for those living below Category I dams. It is believed by the committee that interfacing with the owners of Category I dams with the Georgia Safe Dams Division with Emergency Management being the facilitator is the best way to achieve awareness to the optional losses of a dam failure in our community.

Fayette County Emergency Management has partnered and worked extensively with the owners and operators of Category I dams to minimize the impacts and potential of a dam breach.